ANALYTICAL REPORT

March 19, 2025

Haley & Aldrich-Phoenix, AZ

Sample Delivery Group:	L1834645
Samples Received:	03/11/2025
Project Number:	0213103.000
Description:	

Report To: Samantha Kaney
400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Entire Report Reviewed By:

Daphne R Richards

Daphne Richards
Project Manager

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MONTROSE_SCHOOL_DITCH_I_SO L1834645-01 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 10:50 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467875	1	03/13/25 08:16	03/13/25 08:29	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:00	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468113	1	03/13/25 14:44	03/13/25 22:49	ZSA	Mt. Juliet, TN
Mercury by Method 7471B	WG2468217	1	03/13/25 17:35	03/16/25 17:18	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467982	1	03/13/25 08:28	03/13/25 21:33	DJS	Mt. Juliet, TN

MONTROSE_SCHOOL_DRAINS_I_SO L1834645-02 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 11:20 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:01	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468113	1.02	03/13/25 14:44	03/13/25 23:06	ZSA	Mt. Juliet, TN
Mercury by Method 7471B	WG2468217	1	03/13/25 17:35	03/16/25 17:21	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467982	1	03/13/25 08:28	03/13/25 21:36	DJS	Mt. Juliet, TN

650_851_I_SO L1834645-03 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 11:55 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:02	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468113	1.02	03/13/25 14:44	03/13/25 23:23	ZSA	Mt. Juliet, TN
Mercury by Method 7471B	WG2468217	1	03/13/25 17:35	03/16/25 17:27	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467982	1	03/13/25 08:28	03/13/25 21:39	DJS	Mt. Juliet, TN

601_T_I_SO L1834645-04 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 12:35 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:03	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468113	1	03/13/25 14:44	03/13/25 23:39	ZSA	Mt. Juliet, TN
Mercury by Method 7471B	WG2468217	1	03/13/25 17:35	03/16/25 17:29	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467982	1	03/13/25 08:28	03/13/25 21:42	DJS	Mt. Juliet, TN

250_651_I_SO L1834645-05 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 13:10 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:03	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468113	1.03	03/13/25 14:44	03/13/25 23:56	ZSA	Mt. Juliet, TN
Mercury by Method 7471B	WG2468217	1	03/13/25 17:35	03/16/25 17:32	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467982	1	03/13/25 08:28	03/13/25 21:45	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_DITCH_I_SO L1834645-06 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 13:50 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:04	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468113	1	03/13/25 14:44	03/14/25 00:13	ZSA	Mt. Juliet, TN
Mercury by Method 7471B	WG2468217	1	03/13/25 17:35	03/16/25 17:35	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467982	1	03/13/25 08:28	03/13/25 21:54	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_DRAINS_I_SO L1834645-07 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 14:15 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:04	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468113	1	03/13/25 14:44	03/14/25 00:30	ZSA	Mt. Juliet, TN
Mercury by Method 7471B	WG2468217	1	03/13/25 17:35	03/16/25 17:37	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467982	1	03/13/25 08:28	03/13/25 21:57	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO L1834645-08 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 14:45 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:05	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468113	1.04	03/13/25 14:44	03/14/25 00:47	ZSA	Mt. Juliet, TN
Mercury by Method 7471B	WG2468217	1	03/13/25 17:35	03/16/25 17:40	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467982	1	03/13/25 08:28	03/13/25 22:00	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_WPLAYGROUND_I_SO L1834645-09 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 15:10 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:05	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468113	1.01	03/13/25 14:44	03/14/25 01:04	ZSA	Mt. Juliet, TN
Mercury by Method 7471B	WG2468217	1	03/13/25 17:35	03/16/25 17:48	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467982	1	03/13/25 08:28	03/13/25 22:03	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_TRACK_I_SO L1834645-10 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 15:35 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:05	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468113	1	03/13/25 14:44	03/14/25 01:21	ZSA	Mt. Juliet, TN
Mercury by Method 7471B	WG2468217	1	03/13/25 17:35	03/16/25 17:51	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467982	1	03/13/25 08:28	03/13/25 22:06	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_DUP_I_SO L1834645-11 Solid

Collected by: S. Kaney
Collected date/time: 03/10/25 17:00
Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:06	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468135	1	03/15/25 10:15	03/15/25 21:50	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2468217	1	03/13/25 17:35	03/16/25 17:53	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467982	1	03/13/25 08:28	03/13/25 22:09	DJS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

Report Revision History

Level II Report - Version 1: 03/17/25 15:52

Project Narrative

Level IV

2540 G-2011 Total Solids

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1834645-01	**SDG:**	L1834645
Client Sample ID:	MONTROSE_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	13	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:16
Analytical Batch:	WG2467875	**Analysis Date/Time:**	03/13/25 08:29
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.917 g
Total Solids (%):	70.0	**Final Wt/Vol:**	7.328 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	70.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1834645-02	**SDG:**	L1834645
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	04	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	10.787 g
Total Solids (%):	78.5	**Final Wt/Vol:**	8.74 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	78.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
650_851_I_SO

Lab Sample ID:	L1834645-03	**SDG:**	L1834645
Client Sample ID:	650_851_I_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	05	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.567 g
Total Solids (%):	73.0	**Final Wt/Vol:**	7.329 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	73.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834645-04	**SDG:**	L1834645
Client Sample ID:	601_T_I_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	06	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	9.966 g
Total Solids (%):	71.9	**Final Wt/Vol:**	7.523 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	71.9	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834645-05	**SDG:**	L1834645
Client Sample ID:	250_651_I_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	07	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	10.971 g
Total Solids (%):	74.1	**Final Wt/Vol:**	8.458 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	74.1	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1834645-06	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	08	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.82 g
Total Solids (%):	71.5	**Final Wt/Vol:**	7.389 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	71.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1834645-07	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	09	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.392 g
Total Solids (%):	74.8	**Final Wt/Vol:**	7.349 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	74.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO

Lab Sample ID:	L1834645-08	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	10	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	9.311 g
Total Solids (%):	75.7	**Final Wt/Vol:**	7.358 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	75.7	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_I_SO

Lab Sample ID:	L1834645-09	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	11	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	11.649 g
Total Solids (%):	72.1	**Final Wt/Vol:**	8.761 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	72.1	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_I_SO

Lab Sample ID:	L1834645-10	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_TRACK_I_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	12	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	11.7 g
Total Solids (%):	71.2	**Final Wt/Vol:**	8.699 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	71.2	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834645-11	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DUP_I_SO	**Collected Date/Time:**	03/10/25 17:00
Lab File ID:	13	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	11.159 g
Total Solids (%):	75.5	**Final Wt/Vol:**	8.735 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	75.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186056-1	**SDG:**	L1834645
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:53
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.283 g
Total Solids (%):		**Final Wt/Vol:**	1.281 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.00200	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186069-1	**SDG:**	L1834645
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:15
Analytical Batch:	WG2467875	**Analysis Date/Time:**	03/13/25 08:29
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.307 g
Total Solids (%):		**Final Wt/Vol:**	1.308 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.00100	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186056-2	**SDG:**	L1834645
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:53
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.289 g
Total Solids (%):		**Final Wt/Vol:**	6.29 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186056-3	**SDG:**	L1834645
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	02	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:53
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	12.033 g
Total Solids (%):	71.2	**Final Wt/Vol:**	9.083 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	72.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186069-3	**SDG:**	L1834645
Client Sample ID:	DUP	**Collected Date/Time:**	02/21/25 08:45
Lab File ID:	02	**Received Date/Time:**	02/24/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:16
Analytical Batch:	WG2467875	**Analysis Date/Time:**	03/13/25 08:29
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	5.375 g
Total Solids (%):	77.7	**Final Wt/Vol:**	4.439 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	77.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186069-2	**SDG:**	L1834645
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:15
Analytical Batch:	WG2467875	**Analysis Date/Time:**	03/13/25 08:29
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.297 g
Total Solids (%):		**Final Wt/Vol:**	6.3 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SDG:	L1834645	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2467877

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.00200	

SDG:	L1834645	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2467875

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.00100	

DUP Sample / File ID:	R4186056-3 / 02	**SDG:**	L1834645
OS Sample / File ID:	L1834645-10 / 12	**Analytical Batch:**	WG2467877
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	71.2	72.5	1.86	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4186069-3 / 02	**SDG:**	L1834645
OS Sample / File ID:	L1829230-03 / 06	**Analytical Batch:**	WG2467875
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	77.7	77.0	0.993	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1834645-02,03,04,05,06,07,08,09,10,11

SAMPLE NO.:
R4186056-2

LCS Sample / File ID:	R4186056-2 / 03	**SDG:**	L1834645
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467877
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1834645-01

SAMPLE NO.:
R4186069-2

LCS Sample / File ID:	R4186069-2 / 03	**SDG:**	L1834645
LCSD Sample / File ID:		**Analytical Batch:**	WG2467875
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs:	L1834645-01,02,03,04,05,06,07,08,09,10,11	**Analytical Method:**	2540 G-2011
Matrix:	Solid	**Prep Method:**	SM 2540 G

Analyte	CAS	Wavelength	Mass	MDL	RDL
				%	%
Total Solids	TSOLIDS				

ANALYSIS LOG

SDG:	L1834645	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL3	**Calibration Start Date:**	
Analytical Run:	WG2467877	**Calibration End Date:**	

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4186056-1	01	03/13/25 08:01	1	WG2467877
DUP	R4186056-3	02	03/13/25 08:01	1	WG2467877
LCS	R4186056-2	03	03/13/25 08:01	1	WG2467877
650_851_I_SO	L1834645-03	05	03/13/25 08:01	1	WG2467877
601_T_I_SO	L1834645-04	06	03/13/25 08:01	1	WG2467877
250_651_I_SO	L1834645-05	07	03/13/25 08:01	1	WG2467877
DAVIS_SCHOOL_DITCH_I_SO	L1834645-06	08	03/13/25 08:01	1	WG2467877
DAVIS_SCHOOL_DRAINS_I_SO	L1834645-07	09	03/13/25 08:01	1	WG2467877
DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	L1834645-08	10	03/13/25 08:01	1	WG2467877
DAVIS_SCHOOL_TRACK_I_SO	L1834645-10	12	03/13/25 08:01	1	WG2467877
MONTROSE_SCHOOL_DRAINS_I_SO	L1834645-02	04	03/13/25 08:01	1	WG2467877
DAVIS_SCHOOL_WPLAYGROUND_I_SO	L1834645-09	11	03/13/25 08:01	1	WG2467877
DAVIS_SCHOOL_DUP_I_SO	L1834645-11	13	03/13/25 08:01	1	WG2467877

ANALYSIS LOG

SDG:	L1834645	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL3	**Calibration Start Date:**	_____
Analytical Run:	WG2467875	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4186069-1	01	03/13/25 08:29	1	WG2467875
DUP	R4186069-3	02	03/13/25 08:29	1	WG2467875
LCS	R4186069-2	03	03/13/25 08:29	1	WG2467875
OS	L1829230-03	06	03/13/25 08:29		
MONTROSE_SCHOOL_DITCH_I_SO	L1834645-01	13	03/13/25 08:29	1	WG2467875

Total Solids WetChem Prep Benchsheet

Batch: WG2467875

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1829230	WG2466939	BJM688	PREPREPBAL4	12-MAR-25
L1834645	WG2466977	BJM688	PREPREPBAL4	12-MAR-25

Analyst: CMB3616 **Prep Start Date/Time:** 03/13/25 08:15-08:16 **Prep End Date/Time:** 03/13/25 14:53 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL3 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				F1	1.307	1.307	1.308	1.308	0	0.001	99.999						CMB3616	03/13/25 14:53:43
LCS				F2	1.294	11.297	6.298	6.300	0.002	50.045	49.955	100.09	99.91				CMB3616	03/13/25 14:53:43
DUP(L1829230-03)				F3	1.309	5.375	4.440	4.439	0.001	76.9798	23.0202			0.99	3.39		CMB3616	03/13/25 14:53:43
1. L1829230-01	SS	NC	02/21/25 08:44	F4	1.303	9.677	8.296	8.301	0.005	83.5682	16.4318					0312PP4	CMB3616	03/13/25 14:53:43
2. L1829230-02	SS	NC	02/21/25 08:50	F5	1.305	9.417	7.472	7.475	0.003	76.0602	23.9398					0312PP4	CMB3616	03/13/25 14:53:43
3. L1829230-03	SS	NC	02/21/25 08:45	F6	1.299	5.411	4.495	4.496	0.001	77.7481	22.2519					0312PP4	CMB3616	03/13/25 14:53:43
4. L1829230-04	SS	NC	02/21/25 08:47	F7	1.300	11.248	9.563	9.568	0.005	83.1122	16.8878					0312PP4	CMB3616	03/13/25 14:53:43
5. L1829230-05	SS	NC	02/21/25 08:50	F8	1.297	8.644	6.690	6.694	0.004	73.4586	26.5414					0312PP4	CMB3616	03/13/25 14:53:43
6. L1829230-21	SS	NC	02/21/25 10:55	F9	1.302	8.666	7.307	7.310	0.003	81.5861	18.4139					0312PP4	CMB3616	03/13/25 14:53:43
7. L1829230-22	SS	NC	02/21/25 10:40	F10	1.286	9.223	7.308	7.311	0.003	75.9103	24.0897					0312PP4	CMB3616	03/13/25 14:53:43
8. L1829230-23	SS	NC	02/21/25 10:45	F11	1.286	8.892	6.767	6.767	0	72.0615	27.9385					0312PP4	CMB3616	03/13/25 14:53:43
9. L1829230-24	SS	NC	02/21/25 10:44	F12	1.301	9.669	7.848	7.848	0	78.2385	21.7615					0312PP4	CMB3616	03/13/25 14:53:43
10. L1834645-01	SS	MO	03/10/25 10:50	F13	1.295	9.917	7.321	7.328	0.007	69.9722	30.0278					0312PP4	CMB3616	03/13/25 14:53:43

Comments:

Reviewed By:CMB3616 on 03/13/25 14:53:43

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/13/25 08:29:33	104	104	03/13/25 13:07:59	104	104	BLANK, LCS, DUP(L1829230-03), L1829230-01, L1834645-01, L1829230-24, L1829230-23, L1829230-22, L1829230-21, L1829230-05, L1829230-04, L1829230-03, L1829230-02
2	Oven-1hr	03/13/25 13:12:57	104	104	03/13/25 14:49:35	104	104	BLANK, LCS, DUP(L1829230-03), L1829230-01, L1829230-02, L1829230-03, L1829230-04, L1829230-05, L1829230-21, L1829230-22, L1829230-23, L1829230-24, L1834645-01

Total Solids WetChem Prep Benchsheet

Batch: WG2467877

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834645	WG2466977	BJM688	PREPREPBAL4	12-MAR-25

Analyst: CMB3616 **Prep Start Date/Time:** 03/13/25 07:53-07:54 **Prep End Date/Time:** 03/13/25 14:44 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL3 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				D1	1.283	1.283	1.283	1.281	0.002	0.002	99.998						CMB3616	03/13/25 14:44:02
LCS				D2	1.286	11.289	6.290	6.290	0	50.025	49.975	100.05	99.95				CMB3616	03/13/25 14:44:02
DUP(L1834645-10)				D3	1.287	12.033	9.079	9.083	0.004	72.5479	27.4521			1.86	4.75	0312PP4	CMB3616	03/13/25 14:44:02
1. L1834645-02	SS	MO	03/10/25 11:20	D4	1.288	10.787	8.739	8.740	0.001	78.4504	21.5496					0312PP4	CMB3616	03/13/25 14:44:02
2. L1834645-03	SS	MO	03/10/25 11:55	D5	1.278	9.567	7.327	7.329	0.002	73.0004	26.9996					0312PP4	CMB3616	03/13/25 14:44:02
3. L1834645-04	SS	MO	03/10/25 12:35	D6	1.278	9.966	7.521	7.523	0.002	71.8808	28.1192					0312PP4	CMB3616	03/13/25 14:44:02
4. L1834645-05	SS	MO	03/10/25 13:10	D7	1.278	10.971	8.459	8.458	0.001	74.0741	25.9259					0312PP4	CMB3616	03/13/25 14:44:02
5. L1834645-06	SS	MO	03/10/25 13:50	D8	1.283	9.820	7.387	7.389	0.002	71.524	28.476					0312PP4	CMB3616	03/13/25 14:44:02
6. L1834645-07	SS	MO	03/10/25 14:15	D9	1.277	9.392	7.351	7.349	0.002	74.8244	25.1756					0312PP4	CMB3616	03/13/25 14:44:02
7. L1834645-08	SS	MO	03/10/25 14:45	D10	1.283	9.311	7.359	7.358	0.001	75.6726	24.3274					0312PP4	CMB3616	03/13/25 14:44:02
8. L1834645-09	SS	MO	03/10/25 15:10	D11	1.280	11.649	8.763	8.761	0.002	72.1477	27.8523					0312PP4	CMB3616	03/13/25 14:44:02
9. L1834645-10	SS	MO	03/10/25 15:35	D12	1.275	11.700	8.700	8.699	0.001	71.2134	28.7866						CMB3616	03/13/25 14:44:02
10. L1834645-11	SS	MO	03/10/25 17:00	D13	1.278	11.159	8.737	8.735	0.002	75.4681	24.5319					0312PP4	CMB3616	03/13/25 14:44:02

Comments:

Reviewed By:CMB3616 on 03/13/25 14:44:02

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/13/25 08:01:59	104	104	03/13/25 13:00:42	104	104	BLANK, LCS, DUP(L1834645-10), L1834645-02, L1834645-11, L1834645-10, L1834645-09, L1834645-08, L1834645-07, L1834645-06, L1834645-05, L1834645-04, L1834645-03
2	Oven-1hr	03/13/25 13:03:53	104	104	03/13/25 14:40:55	104	104	BLANK, LCS, DUP(L1834645-10), L1834645-02, L1834645-03, L1834645-04, L1834645-05, L1834645-06, L1834645-07, L1834645-08, L1834645-09, L1834645-10, L1834645-11

3060A/7196A Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1834645-01	**SDG:**	L1834645
Client Sample ID:	MONTROSE_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250314220001	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:00
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.4948 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6 O1	1.07	2.86

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1834645-02	**SDG:**	L1834645
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250314220144	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:01
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.5126 g
Total Solids (%):	78.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.957	2.55

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
650_851_I_SO

Lab Sample ID:	L1834645-03	**SDG:**	L1834645
Client Sample ID:	650_851_I_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	20250314220259	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:02
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4910 g
Total Solids (%):	73.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.03	2.74

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834645-04	**SDG:**	L1834645
Client Sample ID:	601_T_I_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	20250314220327	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:03
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5198 g
Total Solids (%):	71.9	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.04	2.78

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
250_651_I_SO

Lab Sample ID:	L1834645-05	**SDG:**	L1834645
Client Sample ID:	250_651_I_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	20250314220346	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:03
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4728 g
Total Solids (%):	74.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.01	2.70

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1834645-06	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	20250314220404	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:04
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4883 g
Total Solids (%):	71.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.05	2.80

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1834645-07	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	20250314220444	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:04
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4857 g
Total Solids (%):	74.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.00	2.67

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAY GROUND_I_SO

Lab Sample ID:	L1834645-08	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	20250314220505	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:05
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.4900 g
Total Solids (%):	75.7	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.992	2.64

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_I_SO

Lab Sample ID:	L1834645-09	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	20250314220523	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:05
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.4909 g
Total Solids (%):	72.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.04	2.77

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_I_SO

Lab Sample ID:	L1834645-10	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_TRACK_I_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	20250314220541	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:05
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5017 g
Total Solids (%):	71.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.05	2.81

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_I_SO

Lab Sample ID:	L1834645-11	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DUP_I_SO	**Collected Date/Time:**	03/10/25 17:00
Lab File ID:	20250314220621	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:06
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5278 g
Total Solids (%):	75.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.995	2.65

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-1	**SDG:**	L1834645
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250314215922	**Received Date/Time:**	_____
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 21:59
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5103 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-7	**SDG:**	L1834645
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250314220246	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:02
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4839 g
Total Solids (%):	78.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.957	2.55

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-2	**SDG:**	L1834645
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250314215931	**Received Date/Time:**	_____
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 21:59
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5200 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	26.3		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-8	**SDG:**	L1834645
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	20250314220316	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:03
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4839 g
Total Solids (%):	73.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.03	2.74

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-4	**SDG:**	L1834645
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250314220035	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:00
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4875 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6	1.07	2.86

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-5	**SDG:**	L1834645
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250314220107	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:01
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5298 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6	1.07	2.86

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-6	**SDG:**	L1834645
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250314220119	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:01
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5128 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6	1.07	2.86

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-3	**SDG:**	L1834645
Client Sample ID:	PS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250314220020	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:00
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4948 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U	O1	1.07	2.86

CALIBRATION VERIFICATION

SDG:	L1834645	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846
Concentration Units:	mg/L		

	ICV				CCV				CCV			
Sample ID:		DR6000-3031425215903				DR6000-3031425220206				DR6000-3031425220417		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	19.80	20.08398	101		19.80	19.80669	100		19.80	19.72746	99.60	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834645	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846
Concentration Units:	mg/L		

		CCV				CCV		
Sample ID:		DR6000-3031425220601				DR6000-3031425220818		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	19.80	19.68785	99.40		19.80	19.68785	99.40	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1834645	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250314215922		20250314220215		20250314220427		20250314220610	
Analyte	mg/kg		mg/L		mg/L		mg/L	
CHROMIUM,HEXAVALENT	U		-0.002000		-0.004000		-0.004000	

SDG:	L1834645	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20250314220826	
Analyte	mg/L	
CHROMIUM,HEXAVALENT	-0.003000	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834645-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4186749-4

MS Sample / File ID:	R4186749-4 / 20250314220035	**SDG:**	L1834645
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2467846
OS Sample / File ID:	L1834645-01 / 20250314220001	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	923	U	U		0.000*		1	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834645-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.:
R4186749-5
R4186749-6

MS Sample / File ID:	R4186749-5 / 20250314220107	**SDG:**	L1834645
MSD Sample / File ID:	R4186749-6 / 20250314220119	**Analytical Batch:**	WG2467846
OS Sample / File ID:	L1834645-01 / 20250314220001	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	28.6	U	U	U	0.000*	0.000*	1	75.0 - 125	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5B-IN

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1834645-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4186749-3

PS Sample / File ID:	R4186749-3 / 20250314220020	**SDG:**	L1834645
OS Sample / File ID:	L1834645-01 / 20250314220001	**Analytical Batch:**	WG2467846
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	35.7	U	U		0.000*		1	75.0 - 125	*	

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4186749-7 / 20250314220246	**SDG:**	L1834645
OS Sample / File ID:	L1834645-02 / 20250314220144	**Analytical Batch:**	WG2467846
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4186749-8 / 20250314220316	**SDG:**	L1834645
OS Sample / File ID:	L1834645-03 / 20250314220259	**Analytical Batch:**	WG2467846
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1834645-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4186749-2

LCS Sample / File ID:	R4186749-2 / 20250314215931	**SDG:**	L1834645
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467846
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Chromium,Hexavalent	24.0	26.3		110		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1834645-01,02,03,04,05,06,07,08,09,10,11
Matrix: Solid
Analytical Method: 3060A/7196A
Prep Method: 3060A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Chromium,Hexavalent	18540-29-9			0.7510	2

ANALYSIS LOG

SDG:	L1834645	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	_____
Analytical Run:	WG2420318	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0	50	12/19/24 15:00		
CAL	.01	51	12/19/24 15:00		
CAL	.02	52	12/19/24 15:00		
CAL	.05	53	12/19/24 15:00		
CAL	.1	54	12/19/24 15:00		
CAL	.5	55	12/19/24 15:00		
CAL	1	56	12/19/24 15:00		

ANALYSIS LOG

SDG:	L1834645	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	12/19/24 15:00
Analytical Run:	WG2467846	**Calibration End Date:**	12/19/24 15:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-3031425215903	20250314215903	03/14/25 21:59		
BLANK	R4186749-1	20250314215922	03/14/25 21:59	1	WG2467846
LCS	R4186749-2	20250314215931	03/14/25 21:59	1	WG2467846
MONTROSE_SCHOOL_DITCH_I_SO	L1834645-01	20250314220001	03/14/25 22:00	1	WG2467846
PS	R4186749-3	20250314220020	03/14/25 22:00	1	WG2467846
MS	R4186749-4	20250314220035	03/14/25 22:00	1	WG2467846
MS	R4186749-5	20250314220107	03/14/25 22:01	1	WG2467846
MSD	R4186749-6	20250314220119	03/14/25 22:01	1	WG2467846
MONTROSE_SCHOOL_DRAINS_I_SO	L1834645-02	20250314220144	03/14/25 22:01	1	WG2467846
CCV	DR6000-3031425220206	20250314220206	03/14/25 22:02		
CCB	DR6000-3031425220215	20250314220215	03/14/25 22:02		
DUP	R4186749-7	20250314220246	03/14/25 22:02	1	WG2467846
650_851_I_SO	L1834645-03	20250314220259	03/14/25 22:02	1	WG2467846
DUP	R4186749-8	20250314220316	03/14/25 22:03	1	WG2467846
601_T_I_SO	L1834645-04	20250314220327	03/14/25 22:03	1	WG2467846
250_651_I_SO	L1834645-05	20250314220346	03/14/25 22:03	1	WG2467846
DAVIS_SCHOOL_DITCH_I_SO	L1834645-06	20250314220404	03/14/25 22:04	1	WG2467846
CCV	DR6000-3031425220417	20250314220417	03/14/25 22:04		
CCB	DR6000-3031425220427	20250314220427	03/14/25 22:04		
DAVIS_SCHOOL_DRAINS_I_SO	L1834645-07	20250314220444	03/14/25 22:04	1	WG2467846
DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	L1834645-08	20250314220505	03/14/25 22:05	1	WG2467846
DAVIS_SCHOOL_WPLAYGROUND_I_SO	L1834645-09	20250314220523	03/14/25 22:05	1	WG2467846
DAVIS_SCHOOL_TRACK_I_SO	L1834645-10	20250314220541	03/14/25 22:05	1	WG2467846
CCV	DR6000-3031425220601	20250314220601	03/14/25 22:06		
CCB	DR6000-3031425220610	20250314220610	03/14/25 22:06		
DAVIS_SCHOOL_DUP_I_SO	L1834645-11	20250314220621	03/14/25 22:06	1	WG2467846
L1834664-01	L1834664-01	20250314220641	03/14/25 22:06	1	WG2467846
L1834664-02	L1834664-02	20250314220732	03/14/25 22:07	1	WG2467846
L1834664-03	L1834664-03	20250314220750	03/14/25 22:07	1	WG2467846
L1834664-04	L1834664-04	20250314220808	03/14/25 22:08	1	WG2467846
CCV	DR6000-3031425220818	20250314220818	03/14/25 22:08		
CCB	DR6000-3031425220826	20250314220826	03/14/25 22:08		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.01	.007658858	76.60	0.02	.018552278	92.80
File ID:		51			52	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.05	.047964512	95.90	0.10	.094806218	94.80
File ID:		53			54	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.50	.529453676	106	1	.984798632	98.50
File ID:		55			56	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1834645	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CHROMIUM,HEXAVALENT	0	5	0.999332			1.089342	-0.003235	

Calibration Type

0 = Linear Regression

Weightage

5 = None

Created: 12/19/24 15:26

Instrument: DR6000-3

Calibration Date: 12/19/24 15:00

Program Name: CR6 SS 12/19/2024 ARV4164

Wavelength: 540.0 nm

Analytical Method: 7196A SS

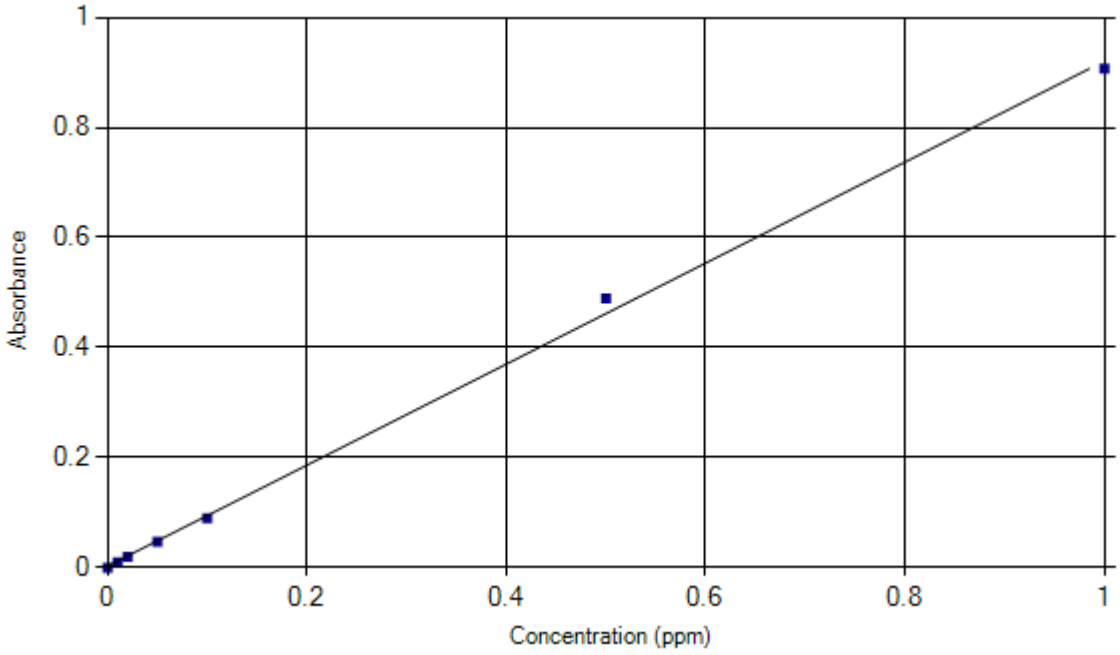
Analyte: CR6

Calibration Equation: Concentration = -0.003234562 + 1.089342 * Absorbance

Standard ID: 24L19163

ppm	Absorbance
0	0
0.01	0.01
0.02	0.02
0.05	0.047
0.1	0.090
0.5	0.489
1	0.907

R = 0.9993323



Instrument: DR6000-3

Created: 03/14/25 22:16

Serial Number: 1894098

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/14/25 21:59:03	CR6	CR6 SS 12/19/2024 ARV4164	ICV	1	0.507	mg/L	0.468
03/14/25 21:59:22	CR6	CR6 SS 12/19/2024 ARV4164	BLANK WG2467846	1	-0.003	mg/L	0.000
03/14/25 21:59:31	CR6	CR6 SS 12/19/2024 ARV4164	LCS WG2467846	1	0.664	mg/L	0.613
03/14/25 22:00:01	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-01 WG2467846	1	0.060	mg/L	0.058
03/14/25 22:00:11	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-01-SB WG2467846	1	0.056	mg/L	0.054
03/14/25 22:00:20	CR6	CR6 SS 12/19/2024 ARV4164	PS L1834645-01 WG2467846	1	0.059	mg/L	0.057
03/14/25 22:00:35	CR6	CR6 SS 12/19/2024 ARV4164	IMS L1834645-01 WG2467846	1	0.004	mg/L	0.006
03/14/25 22:01:07	CR6	CR6 SS 12/19/2024 ARV4164	MS L1834645-01 WG2467846	1	0.052	mg/L	0.051
03/14/25 22:01:19	CR6	CR6 SS 12/19/2024 ARV4164	MSD L1834645-01 WG2467846	1	0.054	mg/L	0.052
03/14/25 22:01:44	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-02 WG2467846	1	0.021	mg/L	0.022
03/14/25 22:01:54	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-02-SB WG2467846	1	0.021	mg/L	0.022
03/14/25 22:02:06	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.500	mg/L	0.462
03/14/25 22:02:15	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.002	mg/L	0.001
03/14/25 22:02:46	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1834645-02 WG2467846	1	0.021	mg/L	0.022
03/14/25 22:02:59	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-03 WG2467846	1	0.021	mg/L	0.022
03/14/25 22:03:08	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-03-SB WG2467846	1	0.023	mg/L	0.024
03/14/25 22:03:16	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1834645-03 WG2467846	1	0.023	mg/L	0.024
03/14/25 22:03:27	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-04 WG2467846	1	0.030	mg/L	0.030
03/14/25 22:03:36	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-04-SB WG2467846	1	0.017	mg/L	0.018
03/14/25 22:03:46	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-05 WG2467846	1	0.020	mg/L	0.021
03/14/25 22:03:55	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-05-SB WG2467846	1	0.021	mg/L	0.022
03/14/25 22:04:04	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-06 WG2467846	1	0.067	mg/L	0.064
03/14/25 22:04:17	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.498	mg/L	0.460
03/14/25 22:04:27	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.004	mg/L	-0.001
03/14/25 22:04:36	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-06-SB WG2467846	1	0.080	mg/L	0.076
03/14/25 22:04:44	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-07 WG2467846	1	0.010	mg/L	0.012
03/14/25 22:04:53	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-07-SB WG2467846	1	0.010	mg/L	0.012
03/14/25 22:05:05	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-08 WG2467846	1	0.014	mg/L	0.015
03/14/25 22:05:14	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-08-SB WG2467846	1	0.012	mg/L	0.013
03/14/25 22:05:23	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-09 WG2467846	1	0.018	mg/L	0.019
03/14/25 22:05:32	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-09-SB WG2467846	1	0.012	mg/L	0.014
03/14/25 22:05:41	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-10 WG2467846	1	0.035	mg/L	0.035
03/14/25 22:05:50	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-10-SB WG2467846	1	0.034	mg/L	0.034
03/14/25 22:06:01	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.497	mg/L	0.459
03/14/25 22:06:10	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.004	mg/L	-0.001
03/14/25 22:06:21	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-11 WG2467846	1	0.070	mg/L	0.067
03/14/25 22:06:30	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-11-SB WG2467846	1	0.067	mg/L	0.065
03/14/25 22:06:41	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-01 WG2467846	1	0.035	mg/L	0.035
03/14/25 22:07:11	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-01-SB WG2467846	1	0.036	mg/L	0.036

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/14/25 22:07:32	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-02 WG2467846	1	0.058	mg/L	0.056
03/14/25 22:07:41	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-02-SB WG2467846	1	0.057	mg/L	0.055
03/14/25 22:07:50	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-03 WG2467846	1	0.040	mg/L	0.039
03/14/25 22:07:59	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-03-SB WG2467846	1	0.052	mg/L	0.051
03/14/25 22:08:08	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-04 WG2467846	1	0.034	mg/L	0.034
03/14/25 22:08:18	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.497	mg/L	0.459
03/14/25 22:08:26	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.003	mg/L	0.000
03/14/25 22:08:34	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-04-SB WG2467846	1	0.034	mg/L	0.034
03/14/25 22:08:42	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-05 WG2467846	1	0.025	mg/L	0.026
03/14/25 22:08:50	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-05-SB WG2467846	1	0.024	mg/L	0.025
03/14/25 22:08:59	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-06 WG2467846	1	0.088	mg/L	0.084
03/14/25 22:09:07	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-06-SB WG2467846	1	0.073	mg/L	0.070
03/14/25 22:10:11	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-07 WG2467846	1	0.017	mg/L	0.019
03/14/25 22:10:20	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-07-SB WG2467846	1	0.015	mg/L	0.016
03/14/25 22:10:44	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-08 WG2467846	1	0.032	mg/L	0.033
03/14/25 22:10:54	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-08-SB WG2467846	1	0.033	mg/L	0.033
03/14/25 22:11:07	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.495	mg/L	0.457
03/14/25 22:11:15	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.004	mg/L	-0.001
03/14/25 22:11:25	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-09 WG2467846	1	0.053	mg/L	0.052
03/14/25 22:11:34	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-09-SB WG2467846	1	0.051	mg/L	0.050
03/14/25 22:11:43	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.495	mg/L	0.457
03/14/25 22:11:52	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.004	mg/L	-0.001

CR6 SS WetChem Prep Benchsheet

Batch: WG2467846

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834645	WG2466977	BJM688	PREPREPBAL4	03/14/25 13:48:52
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25

Analyst: ARV4164 **Prep Start Date/Time:** 03/13/25 22:00 **Prep End Date/Time:** 03/14/25 21:55 **Dig Start Date/Time:** 03/13/25 22:40:00
Dig End Date/Time: 03/13/25 23:40:00 **Dig Start Analyst:** ARV4164 **Dig End Analyst:** ARV4164 **Digest Soln. pH:** 13.13 **Phosphate Buffer pH:** 6.61
SOP: MTJL-0153 **Method:** 3060A **Balance ID:** WETBAL10 **1mL Auto Pipette SN:** VU32730 **0.5mL/1mL Auto Pipette Tips Lot#:** NA **ThermoID:** 1053718
ThermoCorrectFact: -0.5 **ThermoPosition/Temp1(C°)/Temp2(C°):** C4/92/92 **10mL Pipette Lot #:** NA **Transfer Pipette Lot#:** 224350493 **Filter Lot#:** 329076081
pH Strip Lot#: 10BDH40241 **Tongue Depressor Lot#:** P00638 **0.5mL Auto Pipette S/N:** NA **1mL glass pipette Lot#:** NA **Cuvette Lot#:** NA
Cal and Stds Workgroup: NA **Hotblock ID:** 202ICECW5460 **Centrifuge Tube Lot#:** 25007306 **10mL Syringe Lot#:** 241125 **IR Gun ID:** CP52532
Thermometer Location: C4 **Tmer SN:** 230759563

ICV Standard: 25C13099 Amt. Used: 5 mL Exp. Date:03/14/25 **LCS/D Standard:** 25C13098 Amt. Used: 6 mL Exp. Date:03/14/25
MS/D Standard: 25C13098 Amt. Used: 5 mL Exp. Date:03/14/25 **Digestion Solution:** 25C01142 Amt. Used: 50 mL Exp. Date:09/01/25
5N HNO3: 25B27843 Amt. Used: 5 Exp. Date:08/20/25 **Phosphate Buffer:** 25B18330 Amt. Used: 0.50 mL Exp. Date:04/03/25
H2SO4: 25B20586 Amt. Used: 3 Exp. Date:08/20/25 **Color Reagent:** 25C13008 Amt. Used: 0.50 mL Exp. Date:03/20/25
PbCrO4: 25A21864 Amt. Used: 0.01 g Exp. Date:01/01/34 **Sand:** 25A29129 Amt. Used: 2.50 g Exp. Date:07/29/25 **MgCl2:** 25A31532 Amt. Used: 0.40 g Exp. Date:07/31/25

Sample Number	Initial Sample Wt. (g)	Final Volume (mL)	Dilution Factor	Adjusted pH	Review Analyst	Review Date
ICV	2.5244	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
BLANK	2.5103	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
LCS	2.5200	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
1. L1834645-01	2.4948	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
2. L1834645-02	2.5126	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
3. L1834645-03	2.4910	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
4. L1834645-04	2.5198	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
5. L1834645-05	2.4728	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
6. L1834645-06	2.4883	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
7. L1834645-07	2.4857	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
8. L1834645-08	2.4900	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
9. L1834645-09	2.4909	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
10. L1834645-10	2.5017	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
11. L1834645-11	2.5278	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
12. L1834664-01	2.5200	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
13. L1834664-02	2.5333	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
14. L1834664-03	2.4958	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
15. L1834664-04	2.4929	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
16. L1834664-05	2.4947	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
17. L1834664-06	2.4865	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
18. L1834664-07	2.5039	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
19. L1834664-08	2.5073	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
20. L1834664-09	2.4994	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
DUP(L1834645-02)	2.4839	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
DUP(L1834645-03)	2.4839	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
MS(L1834645-01)	2.5298	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
MSD(L1834645-01)	2.5128	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
Ins MS(L1834645-01)	2.4875	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32

Comments:

Reviewed By:ARV4164 on 03/14/25 22:13:32

#	Type	Thermometer	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	IR Gun 1	1053718	-.5	03/13/25 22:40:02	92	91.5	03/13/25 23:10:13	92	91.5	ICV, BLANK, LCS, L1834645-01, L1834664-09, L1834664-08, L1834664-07, L1834664-06, L1834664-05, L1834664-04, L1834664-03, L1834664-02, L1834664-01, L1834645-11, L1834645-10, L1834645-09, L1834645-08, L1834645-07, L1834645-06, L1834645-05, L1834645-04, L1834645-03, L1834645-02, DUP(L1834645-02), DUP(L1834645-03), MS(L1834645-01), MSD(L1834645-01), Ins MS(L1834645-01)
2	IR Gun 1	1053718	-.5	03/13/25 23:10:28	92	91.5	03/13/25 23:40:37	92	91.5	ICV, BLANK, LCS, L1834645-01, L1834645-02, L1834645-03, L1834645-04, L1834645-05, L1834645-06, L1834645-07, L1834645-08, L1834645-09, L1834645-10, L1834645-11, L1834664-01, L1834664-02, L1834664-03, L1834664-04, L1834664-05, L1834664-06, L1834664-07, L1834664-08, L1834664-09, DUP(L1834645-02), DUP(L1834645-03), MS(L1834645-01), MSD(L1834645-01), Ins MS(L1834645-01)

6010D Metals (ICP)

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1834645-01	**SDG:**	L1834645
Client Sample ID:	MONTROSE_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250313213344	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:28
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 21:33
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	70.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	3.11		1.20	2.86
Barium	7440-39-3	93.9		0.121	0.715
Boron	7440-42-8	U		6.43	28.6
Cadmium	7440-43-9	0.438	J	0.0933	0.715
Chromium	7440-47-3	14.8		0.306	1.43
Cobalt	7440-48-4	4.76		0.253	1.43
Lead	7439-92-1	29.0		0.466	0.715
Lithium	7439-93-2	6.17	J	0.579	7.15
Selenium	7782-49-2	U		1.53	2.86
Silver	7440-22-4	U		0.182	1.43

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1834645-02	**SDG:**	L1834645
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250313213645	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:28
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 21:36
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):	78.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	12.9		1.07	2.55
Barium	7440-39-3	877		0.108	0.637
Boron	7440-42-8	U		5.74	25.5
Cadmium	7440-43-9	0.522	J	0.0832	0.637
Chromium	7440-47-3	24.4		0.273	1.27
Cobalt	7440-48-4	188		0.226	1.27
Lead	7439-92-1	78.9		0.416	0.637
Lithium	7439-93-2	36.2		0.516	6.37
Selenium	7782-49-2	4.26		1.36	2.55
Silver	7440-22-4	0.675	J	0.162	1.27

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834645-03	**SDG:**	L1834645
Client Sample ID:	650_851_I_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	20250313213934	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:28
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 21:39
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	73.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	1.81	J	1.15	2.74
Barium	7440-39-3	97.6		0.116	0.685
Boron	7440-42-8	U		6.16	27.4
Cadmium	7440-43-9	0.127	J	0.0895	0.685
Chromium	7440-47-3	15.0		0.293	1.37
Cobalt	7440-48-4	4.28		0.242	1.37
Lead	7439-92-1	9.47		0.447	0.685
Lithium	7439-93-2	8.73		0.555	6.85
Selenium	7782-49-2	U		1.47	2.74
Silver	7440-22-4	U		0.174	1.37

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
601_T_I_SO

Lab Sample ID:	L1834645-04	**SDG:**	L1834645
Client Sample ID:	601_T_I_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	20250313214245	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:28
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 21:42
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.54 g
Total Solids (%):	71.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	3.56		1.16	2.78
Barium	7440-39-3	97.6		0.118	0.696
Boron	7440-42-8	U		6.26	27.8
Cadmium	7440-43-9	0.302	J	0.0908	0.696
Chromium	7440-47-3	15.5		0.298	1.39
Cobalt	7440-48-4	5.16		0.246	1.39
Lead	7439-92-1	14.9		0.454	0.696
Lithium	7439-93-2	8.85		0.563	6.96
Selenium	7782-49-2	1.96	J	1.49	2.78
Silver	7440-22-4	U		0.177	1.39

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
250_651_I_SO

Lab Sample ID:	L1834645-05	**SDG:**	L1834645
Client Sample ID:	250_651_I_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	20250313214550	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:28
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 21:45
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	74.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.60	J	1.13	2.70
Barium	7440-39-3	123		0.115	0.675
Boron	7440-42-8	6.47	J	6.07	27.0
Cadmium	7440-43-9	0.299	J	0.0882	0.675
Chromium	7440-47-3	17.2		0.289	1.35
Cobalt	7440-48-4	6.14		0.239	1.35
Lead	7439-92-1	11.8		0.440	0.675
Lithium	7439-93-2	10.8		0.547	6.75
Selenium	7782-49-2	U		1.44	2.70
Silver	7440-22-4	U		0.171	1.35

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1834645-06	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	20250313215427	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:28
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 21:54
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	71.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	5.96		1.17	2.80
Barium	7440-39-3	135		0.119	0.699
Boron	7440-42-8	U		6.29	28.0
Cadmium	7440-43-9	0.492	J	0.0913	0.699
Chromium	7440-47-3	22.1		0.299	1.40
Cobalt	7440-48-4	7.65		0.247	1.40
Lead	7439-92-1	21.4		0.456	0.699
Lithium	7439-93-2	10.8		0.566	6.99
Selenium	7782-49-2	U		1.50	2.80
Silver	7440-22-4	U		0.178	1.40

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1834645-07	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	20250313215739	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:28
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 21:57
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	74.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	7.58		1.12	2.67
Barium	7440-39-3	132		0.114	0.668
Boron	7440-42-8	U		6.01	26.7
Cadmium	7440-43-9	0.664	J	0.0873	0.668
Chromium	7440-47-3	17.2		0.286	1.34
Cobalt	7440-48-4	29.1		0.237	1.34
Lead	7439-92-1	38.6		0.436	0.668
Lithium	7439-93-2	8.31		0.541	6.68
Selenium	7782-49-2	2.56	J	1.43	2.67
Silver	7440-22-4	0.252	J	0.170	1.34

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAY GROUND_I_SO

Lab Sample ID:	L1834645-08	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	20250313220036	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:28
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 22:00
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.54 g
Total Solids (%):	75.7	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	7.34		1.11	2.64
Barium	7440-39-3	107		0.112	0.661
Boron	7440-42-8	U		5.95	26.4
Cadmium	7440-43-9	0.289	J	0.0863	0.661
Chromium	7440-47-3	16.6		0.283	1.32
Cobalt	7440-48-4	7.31		0.234	1.32
Lead	7439-92-1	18.3		0.431	0.661
Lithium	7439-93-2	7.68		0.535	6.61
Selenium	7782-49-2	U		1.41	2.64
Silver	7440-22-4	U		0.168	1.32

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_I_SO

Lab Sample ID:	L1834645-09	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	20250313220331	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:28
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 22:03
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	72.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	7.62		1.16	2.77
Barium	7440-39-3	177		0.118	0.693
Boron	7440-42-8	U		6.24	27.7
Cadmium	7440-43-9	0.332	J	0.0905	0.693
Chromium	7440-47-3	28.3		0.297	1.39
Cobalt	7440-48-4	9.59		0.245	1.39
Lead	7439-92-1	23.3		0.452	0.693
Lithium	7439-93-2	12.4		0.561	6.93
Selenium	7782-49-2	U		1.48	2.77
Silver	7440-22-4	U		0.176	1.39

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_I_SO

Lab Sample ID:	L1834645-10	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_TRACK_I_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	20250313220637	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:28
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 22:06
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	71.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	5.05		1.18	2.81
Barium	7440-39-3	127		0.119	0.702
Boron	7440-42-8	U		6.32	28.1
Cadmium	7440-43-9	0.256	J	0.0917	0.702
Chromium	7440-47-3	17.3		0.301	1.40
Cobalt	7440-48-4	6.12		0.249	1.40
Lead	7439-92-1	19.9		0.458	0.702
Lithium	7439-93-2	7.64		0.569	7.02
Selenium	7782-49-2	U		1.50	2.81
Silver	7440-22-4	U		0.178	1.40

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_I_SO

Lab Sample ID:	L1834645-11	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DUP_I_SO	**Collected Date/Time:**	03/10/25 17:00
Lab File ID:	20250313220933	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:28
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 22:09
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	75.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	6.88		1.11	2.65
Barium	7440-39-3	128		0.113	0.663
Boron	7440-42-8	U		5.96	26.5
Cadmium	7440-43-9	0.329	J	0.0865	0.663
Chromium	7440-47-3	19.0		0.284	1.33
Cobalt	7440-48-4	8.65		0.235	1.33
Lead	7439-92-1	24.5		0.432	0.663
Lithium	7439-93-2	8.79		0.537	6.63
Selenium	7782-49-2	U		1.42	2.65
Silver	7440-22-4	U		0.168	1.33

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186279-1	**SDG:**	L1834645
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250313204340	**Received Date/Time:**	
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 20:43
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		0.837	2.00
Barium	7440-39-3	U		0.0850	0.500
Boron	7440-42-8	U		4.50	20.0
Cadmium	7440-43-9	U		0.0653	0.500
Chromium	7440-47-3	U		0.214	1.00
Cobalt	7440-48-4	U		0.177	1.00
Lead	7439-92-1	U		0.326	0.500
Lithium	7439-93-2	U		0.405	5.00
Selenium	7782-49-2	U		1.07	2.00
Silver	7440-22-4	U		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186279-2	**SDG:**	L1834645
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250313204623	**Received Date/Time:**	
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 20:46
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	95.6		0.837	2.00
Barium	7440-39-3	102		0.0850	0.500
Boron	7440-42-8	94.0		4.50	20.0
Cadmium	7440-43-9	93.8		0.0653	0.500
Chromium	7440-47-3	103		0.214	1.00
Cobalt	7440-48-4	92.7		0.177	1.00
Lead	7439-92-1	92.3		0.326	0.500
Lithium	7439-93-2	103		0.405	5.00
Selenium	7782-49-2	92.4		1.07	2.00
Silver	7440-22-4	18.8		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186279-5	**SDG:**	L1834645
Client Sample ID:	MS	**Collected Date/Time:**	03/07/25 16:40
Lab File ID:	20250313205752	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 20:57
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	90.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	98.2		0.925	2.21
Barium	7440-39-3	239	J5	0.0939	0.552
Boron	7440-42-8	95.8		4.97	22.1
Cadmium	7440-43-9	101		0.0721	0.552
Chromium	7440-47-3	110		0.236	1.10
Cobalt	7440-48-4	122		0.196	1.10
Lead	7439-92-1	106		0.360	0.552
Lithium	7439-93-2	119		0.447	5.52
Selenium	7782-49-2	91.7		1.18	2.21
Silver	7440-22-4	20.2		0.140	1.10

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186279-6	**SDG:**	L1834645
Client Sample ID:	MSD	**Collected Date/Time:**	03/07/25 16:40
Lab File ID:	20250313210048	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 21:00
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	90.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	92.5		0.925	2.21
Barium	7440-39-3	226		0.0939	0.552
Boron	7440-42-8	90.8		4.97	22.1
Cadmium	7440-43-9	95.4		0.0721	0.552
Chromium	7440-47-3	103		0.236	1.10
Cobalt	7440-48-4	113		0.196	1.10
Lead	7439-92-1	99.1		0.360	0.552
Lithium	7439-93-2	115		0.447	5.52
Selenium	7782-49-2	84.0		1.18	2.21
Silver	7440-22-4	19.2		0.140	1.10

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186279-4	**SDG:**	L1834645
Client Sample ID:	PS	**Collected Date/Time:**	03/07/25 16:40
Lab File ID:	20250313205456	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:28
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 20:54
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	90.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	106		0.925	2.21
Barium	7440-39-3	207		0.0939	0.552
Boron	7440-42-8	103		4.97	22.1
Cadmium	7440-43-9	107		0.0721	0.552
Chromium	7440-47-3	113		0.236	1.10
Cobalt	7440-48-4	123		0.196	1.10
Lead	7439-92-1	111		0.360	0.552
Lithium	7439-93-2	123		0.447	5.52
Selenium	7782-49-2	98.3		1.18	2.21
Silver	7440-22-4	21.1		0.140	1.10

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186279-3	**SDG:**	L1834645
Client Sample ID:	SD	**Collected Date/Time:**	03/07/25 16:40
Lab File ID:	20250313205209	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:28
Analytical Batch:	WG2467982	**Analysis Date/Time:**	03/13/25 20:52
Dilution Factor:	5	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	90.5	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result (dry)** *mg/kg*	**Qualifier**	**MDL (dry)** *mg/kg*	**RDL (dry)** *mg/kg*
Arsenic	7440-38-2	U		4.63	11.0
Barium	7440-39-3	104		0.470	2.76
Boron	7440-42-8	U		24.9	110
Cadmium	7440-43-9	0.409	J	0.361	2.76
Chromium	7440-47-3	1.23	J	1.18	5.52
Cobalt	7440-48-4	13.7		0.978	5.52
Lead	7439-92-1	2.49	J	1.80	2.76
Lithium	7439-93-2	7.32	J	2.24	27.6
Selenium	7782-49-2	U		5.91	11.0
Silver	7440-22-4	U		0.701	5.52

CALIBRATION VERIFICATION

SDG:	L1834645	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A
Concentration Units:	mg/l		

		ICV				**ICVLL**				**CCV**		
Sample ID:		ICP130313250817-2				ICP130313250842-2				ICP130313252037		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9827878	98.30	0.673000	0.01	0.01112877	111	32.000000	1	1.014122	101	0.447000
BARIUM	1	1.043796	104	0.583000	0.0050	0.005441027	109	4.480000	0.50	0.5241746	105	0.299000
BORON	1	0.9990383	99.90	0.912000	0.20	0.2016307	101	3.070000	1	0.9921042	99.20	0.837000
CADMIUM	1	0.9730315	97.30	0.481000	0.0020	0.002087075	104	7.020000	0.50	0.5035641	101	0.263000
CHROMIUM	1	1.048729	105	0.244000	0.01	0.01079324	108	3.180000	1	1.053314	105	0.053900
COBALT	1	0.9704889	97	0.572000	0.01	0.009553317	95.50	2.690000	1	0.9959661	99.60	0.388000
LEAD	1	0.9793258	97.90	0.839000	0.0050	0.005777003	116	46.400000	0.50	0.4987528	99.80	0.319000
LITHIUM	1	1.010306	101	0.353000	0.0150	0.01428389	95.20	5.280000	1	1.040162	104	0.494000
SELENIUM	1	0.9614637	96.10	0.428000	0.01	0.009063138	90.60	48.500000	1	1.014428	101	2.130000
SILVER	1	0.9873888	98.70	0.639000	0.0050	0.005369757	107	8.890000	0.50	0.5286229	106	0.539000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834645	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A
Concentration Units:	mg/l		

		CCV				**CCV**				**CCV**		
Sample ID:		ICP130313252112				ICP130313252148				ICP130313252212		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9991884	99.90	0.971000	1	0.9940396	99.40	0.304000	1	1.007824	101	0.672000
BARIUM	0.50	0.5205925	104	0.498000	0.50	0.5197602	104	0.095700	0.50	0.5244314	105	0.403000
BORON	1	0.9842892	98.40	0.495000	1	0.9812803	98.10	0.833000	1	0.9812497	98.10	0.844000
CADMIUM	0.50	0.4978839	99.60	0.226000	0.50	0.4974784	99.50	0.365000	0.50	0.5036851	101	0.406000
CHROMIUM	1	1.045748	105	0.165000	1	1.051946	105	0.250000	1	1.059292	106	0.193000
COBALT	1	0.9893582	98.90	0.471000	1	0.9876557	98.80	0.130000	1	0.997686	99.80	0.461000
LEAD	0.50	0.4901539	98	0.393000	0.50	0.4896263	97.90	0.441000	0.50	0.4946462	98.90	0.854000
LITHIUM	1	1.041906	104	0.672000	1	1.051617	105	0.404000	1	1.051002	105	0.635000
SELENIUM	1	0.9947428	99.50	1.010000	1	0.9998089	100	0.097100	1	1.007041	101	1.160000
SILVER	0.50	0.5194879	104	0.037300	0.50	0.5253674	105	0.212000	0.50	0.5292633	106	0.062000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110

SDG:	L1834645	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250313083414-2		20250313204042		20250313204340		20250313211531	
Analyte	mg/l		mg/l		mg/kg		mg/l	
ARSENIC	0.0008989357	U	0.005657924	U	U		0.001420898	U
BARIUM	-0.0002320136	U	0.0007869894	U	U		0.0006601656	U
BORON	-0.008037301	U	-0.0022573	U	U		-0.0007961862	U
CADMIUM	0.00009738354	U	0.0006806761	U	U		0.0006496501	U
CHROMIUM	-0.00004709599	U	0.0001929729	U	U		0.0006288158	U
COBALT	0.000001996109	U	0.001030168	U	U		0.001055491	U
LEAD	0.0007511455	U	0.0001201839	U	U		0.00001496949	U
LITHIUM	-0.001407685	U	-0.000433689	U	U		0.001374991	U
SELENIUM	0.003421926	U	-0.002903788	U	U		0.0006641921	U
SILVER	-0.0005324745	U	-0.000004060834	U	U		0.00007075398	U

SDG:	L1834645	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250313215131		20250313221514	
Analyte	mg/l		mg/l	
ARSENIC	0.0004020257	U	0.002594393	U
BARIUM	0.0004999257	U	0.0005491452	U
BORON	-0.002191304	U	-0.003593708	U
CADMIUM	0.0006140418	U	0.000661562	U
CHROMIUM	-0.00000128237	U	0.0004796341	U
COBALT	0.0008079525	U	0.000975608	U
LEAD	0.0001894815	U	0.001644238	U
LITHIUM	0.000717147	U	0.0009753625	U
SELENIUM	-0.008011548	U	0.002525374	U
SILVER	0.000006142012	U	-0.000284737	U

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1834645	**Analytical Method:**	6010D
Instrument ID:	ICP13	**Date:**	03/13/25 08:45
Instrument Run:	031325ICP13A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	508.5792	102	500	516.604	103
ANTIMONY	0	-0.004712001		0.50	0.4984244	99.70
ARSENIC	0	-0.005792129		0.50	0.5037884	101
BARIUM	0	0.002101114		0.50	0.513467	103
BERYLLIUM	0	-0.0001429453		0.50	0.5049913	101
BORON	0	-0.02507207		1	0.9866664	98.70
CADMIUM	0	0.001105337		1	1.041803	104
CALCIUM	500	504.7244	101	500	513.14	103
CERIUM	0	-0.03537677		0	-0.07318607	
CHROMIUM	0	-0.002977348		0.50	0.4957426	99.10
COBALT	0	0.001209249		0.50	0.5005466	100
COPPER	0	-0.01384132		0.50	0.527683	106
HOT WATER SOL. BORON	0	-0.02507207		0	0.9866664	
IRON	200	199.7435	99.90	200	203.4645	102
LANTHANUM	0	-0.01093232		0	-0.01236836	
LEAD	0	-0.008900102		1	0.9696765	97
LITHIUM	0	0.0009581725		0	-0.000064753	
MAGNESIUM	500	506.8968	101	500	516.8698	103
MANGANESE	0	0.001630883		0.50	0.5077575	102
MOLYBDENUM	0	-0.0001039387		0.50	0.4986634	99.70
NICKEL	0	-0.009421016		1	0.9744007	97.40
PHOSPHORUS	0	0.008440357		0	0.009401956	
POTASSIUM	0	-0.02413408		0	0.05399752	
SELENIUM	0	-0.000002577646		0.50	0.5327401	107
SILICON	0	-0.02774185		1	0.9665964	96.70
SILVER	0	-0.001051698		1	0.9181975	91.80
SODIUM	0	0.0234708		0	0.08665133	
STRONTIUM	0	0.006198191		0	0.006301611	
SULFUR	0	-0.178825		0	-0.1847989	
THALLIUM	0	-0.01159576		0.50	0.4554221	91.10
TIN	0	-0.007612868		0.50	0.4762115	95.20
TITANIUM	0	-0.01382504		0.50	0.4887735	97.80
VANADIUM	0	-0.006042197		0.50	0.4775126	95.50
ZINC	0	0.003288463		1	0.970504	97.10

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1834645	**Analytical Method:**	6010D
Instrument ID:	ICP13	**Date:**	03/13/25 13:48
Instrument Run:	031325ICP13A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	508.5764	102	500	517.3846	103
ANTIMONY	0	-0.001049451		0.50	0.4950657	99
ARSENIC	0	-0.006348813		0.50	0.4924311	98.50
BARIUM	0	0.002177823		0.50	0.5123907	102
BERYLLIUM	0	0.00001444088		0.50	0.5060175	101
BORON	0	-0.02208973		1	0.975127	97.50
CADMIUM	0	0.0007240974		1	1.04126	104
CALCIUM	500	504.53	101	500	515.1403	103
CERIUM	0	-0.09502639		0	-0.05004783	
CHROMIUM	0	-0.002886483		0.50	0.5025593	101
COBALT	0	0.0016765		0.50	0.4963475	99.30
COPPER	0	-0.01338605		0.50	0.5287814	106
HOT WATER SOL. BORON	0	-0.02208973		0	0.975127	
IRON	200	197.4968	98.70	200	201.671	101
LANTHANUM	0	-0.01264845		0	-0.01182209	
LEAD	0	-0.01138247		1	0.9709681	97.10
LITHIUM	0	0.001192217		0	0.001032958	
MAGNESIUM	500	503.9371	101	500	518.0682	104
MANGANESE	0	0.001789873		0.50	0.505316	101
MOLYBDENUM	0	0.001915019		0.50	0.4963258	99.30
NICKEL	0	-0.009958574		1	0.9715937	97.20
PHOSPHORUS	0	0.01414468		0	0.01272536	
POTASSIUM	0	0.0004250671		0	0.007049724	
SELENIUM	0	0.03230963		0.50	0.5138425	103
SILICON	0	-0.02503344		1	0.9645136	96.50
SILVER	0	-0.0003269706		1	0.9166392	91.70
SODIUM	0	0.05445837		0	0.07660769	
STRONTIUM	0	0.006222723		0	0.006538643	
SULFUR	0	-0.1675301		0	-0.1844321	
THALLIUM	0	-0.009840639		0.50	0.4553938	91.10
TIN	0	-0.00317589		0.50	0.4713137	94.30
TITANIUM	0	-0.01276186		0.50	0.4884564	97.70
VANADIUM	0	-0.0087304		0.50	0.4768964	95.40
ZINC	0	0.01254922		1	0.9609054	96.10

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1834645	**Analytical Method:**	6010D
Instrument ID:	ICP13	**Date:**	03/13/25 22:18
Instrument Run:	031325ICP13A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	505.3351	101	500	518.0715	104
ANTIMONY	0	-0.0006532052		0.50	0.5010112	100
ARSENIC	0	-0.01629296		0.50	0.4947538	99
BARIUM	0	0.002632681		0.50	0.5170239	103
BERYLLIUM	0	-0.00003234007		0.50	0.5044189	101
BORON	0	-0.02239664		1	0.9739188	97.40
CADMIUM	0	0.0012687		1	1.047177	105
CALCIUM	500	508.7988	102	500	520.7474	104
CERIUM	0	-0.06648212		0	-0.06664474	
CHROMIUM	0	-0.00355252		0.50	0.5030394	101
COBALT	0	0.001305907		0.50	0.4968771	99.40
COPPER	0	-0.01381373		0.50	0.5356425	107
HOT WATER SOL. BORON	0	-0.02239664		0	0.9739188	
IRON	200	196.4042	98.20	200	200.4381	100
LANTHANUM	0	-0.0148477		0	-0.01459433	
LEAD	0	-0.01088692		1	0.9673739	96.70
LITHIUM	0	0.002375146		0	0.003701386	
MAGNESIUM	500	499.2603	99.90	500	515.916	103
MANGANESE	0	0.001909612		0.50	0.5085306	102
MOLYBDENUM	0	0.001225354		0.50	0.4997893	100
NICKEL	0	-0.009087166		1	0.9665655	96.70
PHOSPHORUS	0	0.01124096		0	0.009155355	
POTASSIUM	0	0.07038555		0	0.03953501	
SELENIUM	0	0.001619454		0.50	0.5016118	100
SILICON	0	-0.02337069		1	0.9778336	97.80
SILVER	0	-0.001317933		1	0.8414113	84.10
SODIUM	0	0.08990557		0	0.07716687	
STRONTIUM	0	0.006247949		0	0.006514523	
SULFUR	0	-0.1724963		0	-0.1742412	
THALLIUM	0	-0.01022461		0.50	0.4636878	92.70
TIN	0	-0.005735181		0.50	0.4714088	94.30
TITANIUM	0	-0.01252206		0.50	0.4919533	98.40
VANADIUM	0	-0.006771888		0.50	0.4762339	95.20
ZINC	0	0.02233576		1	0.9657311	96.60

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

MS Sample / File ID: R4186279-5 / 20250313205752
MSD Sample / File ID: R4186279-6 / 20250313210048
OS Sample / File ID: L1834761-01 / 20250313204919
Instrument ID: ICP13
Analytical Method: 6010D

SDG: L1834645
Analytical Batch: WG2467982
Matrix: Solid

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	110	U	98.2	92.5	88.9	83.7	1	75.0 - 125	5.96	20
Barium	110	98.8	239	226	127*	115	1	75.0 - 125	5.68	20
Boron	110	U	95.8	90.8	86.7	82.2	1	75.0 - 125	5.37	20
Cadmium	110	0.467	101	95.4	91.3	86.0	1	75.0 - 125	5.98	20
Chromium	110	1.35	110	103	98.2	91.8	1	75.0 - 125	6.69	20
Cobalt	110	13.5	122	113	98.1	90.2	1	75.0 - 125	7.45	20
Lead	110	2.30	106	99.1	94.3	87.6	1	75.0 - 125	7.13	20
Lithium	110	6.69	119	115	102	97.6	1	75.0 - 125	4.05	20
Selenium	110	U	91.7	84.0	83.0	76.0	1	75.0 - 125	8.74	20
Silver	22.1	U	20.2	19.2	91.4	87.1	1	75.0 - 125	4.88	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1834645-01,02,03,04,05,06,07,08,09,10,11

PS Sample / File ID:	R4186279-4 / 20250313205456	**SDG:**	L1834645
OS Sample / File ID:	L1834761-01 / 20250313204919	**Analytical Batch:**	WG2467982
Instrument ID:	ICP13	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Arsenic	110	U	106		96.3		1	80.0 - 120		
Barium	110	98.8	207		98.2		1	80.0 - 120		
Boron	110	U	103		93.3		1	80.0 - 120		
Cadmium	110	0.467	107		96.6		1	80.0 - 120		
Chromium	110	1.35	113		101		1	80.0 - 120		
Cobalt	110	13.5	123		99.5		1	80.0 - 120		
Lead	110	2.30	111		98.3		1	80.0 - 120		
Lithium	110	6.69	123		106		1	80.0 - 120		
Selenium	110	U	98.3		88.9		1	80.0 - 120		
Silver	22.1	U	21.1		95.5		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1834645-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4186279-2

LCS Sample / File ID:	R4186279-2 / 20250313204623	**SDG:**	L1834645
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467982
Instrument ID:	ICP13	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Arsenic	100	95.6		95.6		80.0 - 120		
Barium	100	102		102		80.0 - 120		
Boron	100	94.0		94.0		80.0 - 120		
Cadmium	100	93.8		93.8		80.0 - 120		
Chromium	100	103		103		80.0 - 120		
Cobalt	100	92.7		92.7		80.0 - 120		
Lead	100	92.3		92.3		80.0 - 120		
Lithium	100	103		103		80.0 - 120		
Selenium	100	92.4		92.4		80.0 - 120		
Silver	20.0	18.8		93.8		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4186279-3 / 20250313205209	**SDG:**	L1834645
OS Sample / File ID:	L1834761-01 / 20250313204919	**Analytical Batch:**	WG2467982
Lab File ID:	20250313205209	**Dilution Factor:**	5
Instrument ID:	ICP13	**Matrix:**	Solid
Analytical Method:	6010D		

Analyte	OS Result (dry)	SD Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Arsenic	U	U	0.000	10
Barium	98.8	104	5.51	10
Boron	U	U	0.000	10
Cadmium	0.467	0.409	12.3	10
Chromium	1.35	1.23	8.96	10
Cobalt	13.5	13.7	1.23	10
Lead	2.30	2.49	7.97	10
Lithium	6.69	7.32	9.46	10
Selenium	U	U	0.000	10
Silver	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1834645-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 6010D

Matrix: Solid **Prep Method:** 3050B

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Cobalt	7440-48-4	177.4950	228.6160	0.1770	1
Lead	7439-92-1	177.4950	220.3530	0.3260	0.50
Lithium	7439-93-2	177.4950	670.7840	0.4050	5
Selenium	7782-49-2	177.4950	196.09	1.07	2
Silver	7440-22-4	177.4950	328.0680	0.1270	1
Arsenic	7440-38-2	177.4950	189.0420	0.8370	2
Barium	7440-39-3	177.4950	233.5270	0.0850	0.50
Boron	7440-42-8	177.4950	249.6780	4.50	20
Cadmium	7440-43-9	177.4950	228.8020	0.0653	0.50
Chromium	7440-47-3	177.4950	267.7160	0.2140	1

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L1834645 **Analytical Method:** 6010D

Instrument ID: ICP13 **Date:** 07/28/23 07:16

Analyte	Wavelength	ARSENIC	CERIUM	CHROMIUM	COBALT	COPPER	IRON	LANTHANUM
	nm	189.0420	535.3530	267.7160	228.6160	324.7540	271.4410	333.7490
ALUMINUM	308.2150							
ANTIMONY	206.8330			-0.00043260				
ARSENIC	189.0420							-0.00532076
BERYLLIUM	313.0420							
CADMIUM	228.8020	-0.15291673						
COBALT	228.6160							
LEAD	220.3530		-0.00035078			-0.00001401	-0.00041235	0.00000145
NICKEL	231.6040						-0.00098060	
PHOSPHORUS	177.4950							
THALLIUM	190.8560				-0.00008407			
TITANIUM	334.9410			-0.00012044				

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L1834645 **Analytical Method:** 6010D

Instrument ID: ICP13 **Date:** 07/28/23 07:16

Analyte	Wavelength	MAGNESIUM	MANGANESE	MOLYBDENUM	POTASSIUM	SILICON	SULFUR	TITANIUM
	nm	279.0790	257.61	202.03	766.49	251.6110	182.0340	334.9410
ALUMINUM	308.2150			-0.00393995				
ANTIMONY	206.8330	-0.00013070			-0.00001138		-0.00557514	
ARSENIC	189.0420			-0.00023896				
BERYLLIUM	313.0420							
CADMIUM	228.8020							
COBALT	228.6160							-0.00163701
LEAD	220.3530					-0.00003453		
NICKEL	231.6040							
PHOSPHORUS	177.4950					-0.00001698		
THALLIUM	190.8560		-0.00000157	-0.00027950				
TITANIUM	334.9410							

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG:	L1834645	**Analytical Method:**	6010D
Instrument ID:	ICP13	**Date:**	07/28/23 07:16

Analyte	Wavelength	VANADIUM	ZINC
	nm	292.4020	206.20
ALUMINUM	308.2150		
ANTIMONY	206.8330		-0.00016041
ARSENIC	189.0420		
BERYLLIUM	313.0420	-0.01698239	
CADMIUM	228.8020		
COBALT	228.6160		
LEAD	220.3530		
NICKEL	231.6040		
PHOSPHORUS	177.4950	-0.00005985	
THALLIUM	190.8560		
TITANIUM	334.9410		

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1834645	**Analytical Method:**	6010D
Instrument ID:	ICP13	**Date:**	02/10/25 14:29

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	200
POTASSIUM	500
SELENIUM	10
SILICON	100
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

ANALYSIS LOG

SDG:	L1834645	**Analytical Method:**	6010D
Instrument ID:	ICP13	**Calibration Start Date:**	03/13/25 07:57
Analytical Run:	031325ICP13A	**Calibration End Date:**	03/13/25 08:13

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP130313250754	20250313075411	03/13/25 07:54		
CAL	STD1	20250313075707	03/13/25 07:57		
CAL	STD2	20250313075956	03/13/25 07:59		
CAL	STD3	20250313080241	03/13/25 08:02		
CAL	STD4	20250313080523	03/13/25 08:05		
CAL	STD5	20250313080802	03/13/25 08:08		
CAL	STD6	20250313081055	03/13/25 08:10		
CAL	STD7	20250313081353	03/13/25 08:13		
ICV	ICP130313250817-2	20250313081710-2	03/13/25 08:17		
ICB	ICP130313250834-2	20250313083414-2	03/13/25 08:34		
ICVLL	ICP130313250842-2	20250313084248-2	03/13/25 08:42		
ICSA	ICP130313250845-2	20250313084540-2	03/13/25 08:45		
ICSAB	ICP130313250848-2	20250313084821-2	03/13/25 08:48		
ICSA	ICP130313251348-2	20250313134810-2	03/13/25 13:48		
ICSAB	ICP130313251350-2	20250313135054-2	03/13/25 13:50		
CCV	ICP130313252037	20250313203744	03/13/25 20:37		
CCB	ICP130313252040	20250313204042	03/13/25 20:40		
BLANK	R4186279-1	20250313204340	03/13/25 20:43	1	WG2467982
LCS	R4186279-2	20250313204623	03/13/25 20:46	1	WG2467982
OS	L1834761-01	20250313204919	03/13/25 20:49		
L1834761-01	L1834761-01	20250313204919	03/13/25 20:49	1	WG2467982
SD	R4186279-3	20250313205209	03/13/25 20:52	5	WG2467982
PS	R4186279-4	20250313205456	03/13/25 20:54	1	WG2467982
MS	R4186279-5	20250313205752	03/13/25 20:57	1	WG2467982
MSD	R4186279-6	20250313210048	03/13/25 21:00	1	WG2467982
CCV	ICP130313252112	20250313211234	03/13/25 21:12		
CCB	ICP130313252115	20250313211531	03/13/25 21:15		
MONTROSE_SCHOOL_DITCH_I_SO	L1834645-01	20250313213344	03/13/25 21:33	1	WG2467982
MONTROSE_SCHOOL_DRAINS_I_SO	L1834645-02	20250313213645	03/13/25 21:36	1	WG2467982
650_851_I_SO	L1834645-03	20250313213934	03/13/25 21:39	1	WG2467982
601_T_I_SO	L1834645-04	20250313214245	03/13/25 21:42	1	WG2467982
250_651_I_SO	L1834645-05	20250313214550	03/13/25 21:45	1	WG2467982
CCV	ICP130313252148	20250313214834	03/13/25 21:48		
CCB	ICP130313252151	20250313215131	03/13/25 21:51		
DAVIS_SCHOOL_DITCH_I_SO	L1834645-06	20250313215427	03/13/25 21:54	1	WG2467982
DAVIS_SCHOOL_DRAINS_I_SO	L1834645-07	20250313215739	03/13/25 21:57	1	WG2467982
DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	L1834645-08	20250313220036	03/13/25 22:00	1	WG2467982
DAVIS_SCHOOL_WPLAYGROUND_I_SO	L1834645-09	20250313220331	03/13/25 22:03	1	WG2467982
DAVIS_SCHOOL_TRACK_I_SO	L1834645-10	20250313220637	03/13/25 22:06	1	WG2467982
DAVIS_SCHOOL_DUP_I_SO	L1834645-11	20250313220933	03/13/25 22:09	1	WG2467982
CCV	ICP130313252212	20250313221216	03/13/25 22:12		
CCB	ICP130313252215	20250313221514	03/13/25 22:15		
ICSA	ICP130313252218	20250313221807	03/13/25 22:18		
ICSAB	ICP130313252220	20250313222052	03/13/25 22:20		

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.009588302	95.90	0.20	.1970021	98.50
BARIUM	0.0050	.005309759	106	0.10	.1047794	105
BORON	0.20	.1935487	96.80			
CADMIUM	0.0020	.002301154	115	0.10	.09803636	98
CHROMIUM	0.01	.01055609	106	0.20	.2099074	105
COBALT	0.01	.009639231	96.40	0.20	.1946322	97.30
LEAD	0.0050	.005544055	111	0.10	.09873343	98.70
LITHIUM	0.0150	.01369792	91.30	0.20	.1987796	99.40
SELENIUM	0.01	.008234783	82.30	0.20	.1836213	91.80
SILVER	0.0050	.004955423	99.10	0.10	.1023674	102
File ID:		20250313075707			20250313075956	

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INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.3897012	97.40	1	.9748541	97.50
BARIUM	0.20	.2072471	104	0.50	.5089387	102
BORON	0.40	.3907844	97.70	1	.9882532	98.80
CADMIUM	0.20	.1962672	98.10	0.50	.490597	98.10
CHROMIUM	0.40	.4159336	104	1	1.011687	101
COBALT	0.40	.3920766	98	1	.9822066	98.20
LEAD	0.20	.197483	98.70	0.50	.4946227	98.90
LITHIUM	0.40	.3930345	98.30	1	.9749498	97.50
SELENIUM	0.40	.3888387	97.20	1	.9735526	97.40
SILVER	0.20	.2042279	102	0.50	.4915499	98.30
File ID:		20250313080241			20250313080523	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.000484	100	4	4.007225	100
BARIUM	1	1.016777	102	2	1.988413	99.40
BORON	2	1.991106	99.60	4	4.008628	100
CADMIUM	1	.9957446	99.60	2	2.00495	100
CHROMIUM	2	2.022657	101	4	3.983659	99.60
COBALT	2	1.996962	99.80	4	4.007029	100
LEAD	1	.9976466	99.80	2	2.002835	100
LITHIUM	2	1.971233	98.60	4	4.021408	101
SELENIUM	2	2.001812	100	4	4.007645	100
SILVER	1	.9925209	99.30	2	2.005311	100
File ID:		20250313080802			20250313081055	

16A-IN

INITIAL CALIBRATION

SDG:	L1834645	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999969	108.4947	-0.655814
BARIUM	233.527	8	5	0.999911	4227.523	-0.327624
BORON	249.678	8	5	0.999982	311.6607	4.007682
CADMIUM	228.802	8	5	0.999977	6590.507	1.438663
CHROMIUM	267.716	8	5	0.999951	9840.71	4.27891
COBALT	228.616	8	5	0.999982	4145.749	-4.742611
LEAD	220.353	8	5	0.999992	648.1994	-1.463538
LITHIUM	670.784	8	5	0.999925	7871.798	-13.19208
SELENIUM	196.09	8	5	0.999956	87.51796	0.455586
SILVER	328.068	8	5	0.999972	12727.44	107.3858

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

Sample ID: CALBLK Units: mg/l
Analyzed: 03/13/25 07:54 Sequence: 2 Standard ID: 25C10350

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11208.33	11201.45	11223.62	11199.93
YTTRIUM	360.073	Axial	326176.3	325943.6	326849.5	325735.7
YTTRIUM	360.073	Radial	12681.00	12625.39	12667.80	12749.79
INDIUM	230.606	Axial	3339.227	3342.158	3338.931	3336.591

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	11.56176	11.37663	9.720239	13.58842
ANTIMONY	206.833	Axial	0.5279300	0.04744767	1.468005	0.06833675
ARSENIC	189.042	Axial	-0.6558663	-1.032279	-0.7069266	-0.2283931
BARIUM	233.527	Axial	-0.3278911	-0.6918980	-0.6843077	0.3925325
BERYLLIUM	313.042	Radial	-9.61313	-8.935993	-12.15856	-7.744837
BORON	249.678	Radial	4.007712	5.735661	1.332445	4.955030
CADMIUM	228.802	Axial	1.438325	0.3855795	1.027540	2.901855
CALCIUM	317.933	Radial	82.07239	79.88362	81.14035	85.19320
CALCIUM	373.690	Radial	24.07244	21.86201	19.23718	31.11814
CERIUM	535.353	Radial	347.8054	348.1020	348.8230	346.4912
CHROMIUM	267.716	Axial	4.277778	1.388889	2.861111	8.583333
COBALT	228.616	Axial	-4.74258	-4.247680	-5.810974	-4.169095
COPPER	324.754	Axial	212.6859	212.8640	221.0370	204.1568
IRON	259.940	Radial	42.43108	43.76559	40.88941	42.63824
IRON	271.441	Radial	-0.7121157	-0.6095871	-1.859871	0.3331113
LANTHANUM	333.749	Radial	2.788005	2.950956	3.289474	2.123584
LEAD	220.353	Axial	-1.46403	-2.756384	-0.5317859	-1.103941
LITHIUM	670.784	Radial	-13.1969	-5.818786	-22.07972	-11.69221
MAGNESIUM	279.079	Radial	0.1764856	-1.108340	-0.3608705	1.998668
MANGANESE	257.610	Axial	15.64532	16.93730	16.98208	13.01659
MOLYBDENUM	202.030	Axial	0.8830903	1.177124	0.9983361	0.4738108
NICKEL	231.604	Axial	-5.59563	-5.142448	-6.114660	-5.529791
PHOSPHORUS	177.495	Axial	0.6485241	0.8229132	1.110454	0.01220525
POTASSIUM	766.490	Radial	-68.9347	-46.71654	-77.42061	-82.66711
SELENIUM	196.090	Axial	0.4554412	1.066260	0.2113256	0.08873820
SILICON	251.611	Axial	16.65040	15.36398	17.79446	16.79275
SILVER	328.068	Axial	107.3856	97.01179	107.9178	117.2272
SODIUM	589.592	Radial	51.67324	46.50873	57.96136	50.54963
SODIUM	818.326	Radial	-123.872	-138.6672	-97.93471	-135.0142
STRONTIUM	421.552	Radial	16.65422	17.34553	14.74017	17.87697
SULFUR	182.034	Axial	1.824111	1.743476	2.163062	1.565797
THALLIUM	190.856	Axial	0.8206614	1.186377	0.6820215	0.5935857
TIN	189.989	Axial	0.2218949	0.04812141	0.5509336	0.06662965
TITANIUM	334.941	Radial	-3.10670	-3.823774	-1.082612	-4.413724
VANADIUM	292.402	Radial	-0.6836131	1.138525	-1.806188	-1.383176
ZINC	206.200	Axial	8.211232	8.662876	7.250298	8.720523

Sample ID: STD1 Units: mg/l
Analyzed: 03/13/25 07:57 Sequence: 3 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11170.74	11147.13	11190.58	11174.51
YTTRIUM	360.073	Axial	327177.5	325041.7	329197.4	327293.4
YTTRIUM	360.073	Radial	12647.12	12690.92	12638.32	12612.10
INDIUM	230.606	Axial	3302.528	3285.826	3315.437	3306.319

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	30.52230	31.73089	29.00251	30.83352
ANTIMONY	206.833	Axial	2.335024	2.522619	2.376930	2.105524
ARSENIC	189.042	Axial	0.3834684	0.3380825	0.9171131	-0.1047903
BARIUM	233.527	Axial	22.04511	22.13950	21.89506	22.10077
BERYLLIUM	313.042	Radial	54.57424	51.83181	57.50333	54.38757
BORON	249.678	Radial	64.15696	64.44629	63.37442	64.65016
CADMIUM	228.802	Axial	16.54738	17.65988	15.68409	16.29816
CALCIUM	317.933	Radial	831.9911	830.5579	831.0848	834.3305
CHROMIUM	267.716	Axial	107.7963	107.6111	109.6111	106.1667
COBALT	228.616	Axial	34.83051	35.32098	34.68056	34.48999
COPPER	324.754	Axial	487.1706	482.0377	484.0124	495.4618
IRON	259.940	Radial	97.70550	96.25312	98.22618	98.63719
LEAD	220.353	Axial	2.105520	2.409590	1.533828	2.373142
LITHIUM	670.784	Radial	94.37984	94.66001	90.86165	97.61786
MAGNESIUM	279.079	Radial	52.45168	51.76242	52.63158	52.96105
MANGANESE	257.610	Axial	789.6795	790.1495	789.4045	789.4845
MOLYBDENUM	202.030	Axial	5.232718	5.219323	5.731189	4.747643
NICKEL	231.604	Axial	13.33299	13.87873	13.10470	13.01556
PHOSPHORUS	177.495	Axial	10.65186	10.86323	10.55169	10.54066
POTASSIUM	766.490	Radial	272.4084	265.0014	274.1783	278.0455
SELENIUM	196.090	Axial	1.171668	2.052548	1.296908	0.1655467
SILICON	251.611	Axial	770.9182	768.7934	770.9378	773.0234
SILVER	328.068	Axial	169.8750	179.1811	168.2598	162.1842
SODIUM	589.592	Radial	1265.805	1286.470	1258.827	1252.119
STRONTIUM	421.552	Radial	442.9663	450.6245	441.7888	436.4855
SULFUR	182.034	Axial	60.85435	60.58856	61.20910	60.76539
THALLIUM	190.856	Axial	2.126710	2.275680	2.204274	1.900177
TIN	189.989	Axial	13.93623	13.87377	14.44999	13.48493
TITANIUM	334.941	Radial	206.8685	210.6578	204.2805	205.6673
VANADIUM	292.402	Radial	12.54647	11.57570	14.22101	11.84269
ZINC	206.200	Axial	99.08491	99.86016	99.65101	97.74355

Sample ID: STD2 Units: mg/l
Analyzed: 03/13/25 07:59 Sequence: 4 Standard ID: 25C13924

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11088.60	11085.86	11098.19	11081.74
YTTRIUM	360.073	Axial	319425.7	316951.8	319967.8	321357.5
YTTRIUM	360.073	Radial	12503.53	12505.87	12576.71	12428.01
INDIUM	230.606	Axial	3221.464	3223.304	3223.776	3217.312

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	201.5054	204.8774	200.2470	199.3919
ANTIMONY	206.833	Axial	21.03051	21.90698	20.42907	20.75549
ARSENIC	189.042	Axial	20.49678	21.23129	20.76941	19.48964
BARIUM	233.527	Axial	437.9008	439.5013	436.8157	437.3853
BERYLLIUM	313.042	Radial	1264.202	1259.692	1267.125	1265.789
CADMIUM	228.802	Axial	640.6308	640.1612	641.9596	639.7715
CALCIUM	317.933	Radial	7481.393	7496.977	7482.250	7464.950
CALCIUM	373.690	Radial	4723.434	4731.864	4738.083	4700.355
CHROMIUM	267.716	Axial	2047.802	2056.396	2041.313	2045.697
COBALT	228.616	Axial	773.8630	774.0312	772.6608	774.8971
COPPER	324.754	Axial	5451.963	5433.747	5429.200	5492.942
IRON	259.940	Radial	1106.807	1113.311	1108.458	1098.650
LEAD	220.353	Axial	60.33051	60.07248	61.39960	59.51945
LITHIUM	670.784	Radial	1529.811	1530.211	1529.600	1529.623
MAGNESIUM	279.079	Radial	105.7503	105.5186	106.0556	105.6768
MANGANESE	257.610	Axial	14860.68	14898.66	14809.64	14873.73
MOLYBDENUM	202.030	Axial	40.95227	40.28086	41.38926	41.18670
NICKEL	231.604	Axial	342.9863	342.1200	344.3580	342.4810
PHOSPHORUS	177.495	Axial	21.16235	21.27097	21.43405	20.78202
POTASSIUM	766.490	Radial	3243.867	3251.082	3272.833	3207.688
SELENIUM	196.090	Axial	16.34918	16.42397	16.29355	16.33003
SILICON	251.611	Axial	1559.380	1556.576	1542.114	1579.449
SILVER	328.068	Axial	1395.193	1396.467	1390.991	1398.122
SODIUM	589.592	Radial	11973.96	11986.65	12023.63	11911.60
SODIUM	818.326	Radial	582.7318	583.4928	589.2604	575.4423
STRONTIUM	421.552	Radial	8346.741	8354.770	8400.028	8285.425
THALLIUM	190.856	Axial	24.64479	23.75519	25.11966	25.05952
TIN	189.989	Axial	27.53887	27.45011	28.01080	27.15570
TITANIUM	334.941	Radial	821.4125	825.8735	822.1667	816.1973
VANADIUM	292.402	Radial	137.3775	138.0837	139.6516	134.3973
ZINC	206.200	Axial	377.9375	376.5493	379.3725	377.8907

Sample ID: STD3 Units: mg/l
Analyzed: 03/13/25 08:02 Sequence: 5 Standard ID: 25C13926

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10980.42	10958.46	10992.81	10990.00
YTTRIUM	360.073	Axial	315768.8	315149.2	316734.2	315423.0
YTTRIUM	360.073	Radial	12456.63	12488.41	12461.55	12419.95
INDIUM	230.606	Axial	3141.105	3139.925	3144.750	3138.640

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	393.4279	391.4003	399.6804	389.2032
ANTIMONY	206.833	Axial	41.43597	41.26603	41.27877	41.76311
ARSENIC	189.042	Axial	40.77854	40.46992	40.81320	41.05249
BARIUM	233.527	Axial	858.0021	859.9148	858.7128	855.3787
BERYLLIUM	313.042	Radial	2520.042	2521.647	2533.578	2504.902
BORON	249.678	Radial	123.5721	122.9433	123.4378	124.3353
CADMIUM	228.802	Axial	1268.607	1267.347	1272.672	1265.800
CALCIUM	373.690	Radial	9309.496	9321.755	9332.306	9274.427
CHROMIUM	267.716	Axial	4014.042	4010.767	4029.138	4002.220
COBALT	228.616	Axial	1524.550	1525.543	1526.283	1521.823
COPPER	324.754	Axial	10470.91	10486.05	10500.96	10425.72
IRON	259.940	Radial	2146.512	2150.324	2146.059	2143.154
LEAD	220.353	Axial	119.0363	118.3556	118.5773	120.1760
LITHIUM	670.784	Radial	3026.160	3016.941	3028.484	3033.056
MAGNESIUM	279.079	Radial	203.6490	205.2241	204.2993	201.4235
MANGANESE	257.610	Axial	28882.14	28896.75	28885.37	28864.29
MOLYBDENUM	202.030	Axial	79.49453	79.63600	79.27388	79.57371
NICKEL	231.604	Axial	675.7150	674.6587	676.6615	675.8249
PHOSPHORUS	177.495	Axial	40.35956	41.48365	40.55127	39.04375
POTASSIUM	766.490	Radial	6491.647	6486.095	6512.442	6476.404
SELENIUM	196.090	Axial	33.78447	33.93493	33.37188	34.04659
SILICON	251.611	Axial	3087.711	3082.534	3093.203	3087.395
SILVER	328.068	Axial	2651.647	2645.511	2663.943	2645.487
SODIUM	818.326	Radial	1281.188	1271.893	1295.482	1276.189
STRONTIUM	421.552	Radial	16502.36	16488.56	16567.54	16450.98
SULFUR	182.034	Axial	118.8792	119.0878	119.0550	118.4947
THALLIUM	190.856	Axial	47.22136	47.12596	47.54559	46.99252
TIN	189.989	Axial	52.78462	52.44331	53.05383	52.85672
TITANIUM	334.941	Radial	1626.372	1611.102	1641.476	1626.537
VANADIUM	292.402	Radial	275.3429	277.0000	274.8561	274.1725
ZINC	206.200	Axial	740.9633	739.4679	742.9061	740.5160

Sample ID: STD4 Units: mg/l
Analyzed: 03/13/25 08:05 Sequence: 6 Standard ID: 25C13927

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10734.69	10755.49	10711.73	10736.86
YTTRIUM	360.073	Axial	305530.9	304568.0	307781.2	304243.5
YTTRIUM	360.073	Radial	12417.45	12461.83	12362.50	12428.01
INDIUM	230.606	Axial	2997.820	3003.742	2991.057	2998.660

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	949.5517	951.4848	942.0310	955.1393
ANTIMONY	206.833	Axial	101.7049	101.2961	101.3514	102.4671
ARSENIC	189.042	Axial	100.6692	101.5173	100.5734	99.91705
BARIUM	233.527	Axial	2060.312	2062.722	2059.460	2058.754
BERYLLIUM	313.042	Radial	6228.679	6229.875	6216.559	6239.602
BORON	249.678	Radial	305.5216	304.1667	303.6308	308.7673
CADMIUM	228.802	Axial	3098.026	3102.542	3093.052	3098.484
CALCIUM	373.690	Radial	22723.99	22813.67	22653.51	22704.79
CHROMIUM	267.716	Axial	9539.123	9574.573	9514.721	9528.074
COBALT	228.616	Axial	3651.391	3652.209	3648.883	3653.082
COPPER	324.754	Axial	24829.85	24965.49	24746.71	24777.35
IRON	259.940	Radial	5189.195	5222.042	5169.948	5175.595
IRON	271.441	Radial	277.7468	277.2778	277.4454	278.5172
LEAD	220.353	Axial	286.5185	286.6694	287.6607	285.2254
LITHIUM	670.784	Radial	7502.231	7527.956	7443.375	7535.363
MAGNESIUM	279.079	Radial	500.1955	502.0278	499.6123	498.9464
MANGANESE	257.610	Axial	69098.72	69265.78	69070.64	68959.74
MOLYBDENUM	202.030	Axial	191.7592	191.5687	192.5737	191.1353
NICKEL	231.604	Axial	1623.232	1622.191	1628.995	1618.511
PHOSPHORUS	177.495	Axial	99.57153	100.2566	98.63552	99.82248
POTASSIUM	766.490	Radial	16181.41	16267.42	16055.39	16221.43
SELENIUM	196.090	Axial	82.03847	81.65517	82.31880	82.14145
SILICON	251.611	Axial	7582.422	7555.803	7598.117	7593.347
SILVER	328.068	Axial	6094.647	6117.061	6084.607	6082.274
SODIUM	818.326	Radial	3286.243	3305.035	3258.454	3295.240
STRONTIUM	421.552	Radial	40398.00	40570.61	40112.63	40510.76
SULFUR	182.034	Axial	291.5864	292.5449	291.6121	290.6021
THALLIUM	190.856	Axial	109.6756	109.8460	110.1382	109.0425
TIN	189.989	Axial	128.2177	128.2302	128.4811	127.9419
TITANIUM	334.941	Radial	3997.613	3993.333	3995.929	4003.577
VANADIUM	292.402	Radial	677.0856	681.8072	671.8831	677.5666
ZINC	206.200	Axial	1787.025	1792.383	1792.907	1775.783

Sample ID: STD5 Units: mg/l
Analyzed: 03/13/25 08:08 Sequence: 7 Standard ID: 25C13929

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10464.66	10459.32	10459.95	10474.70
YTTRIUM	360.073	Axial	298958.5	299788.8	298684.7	298402.0
YTTRIUM	360.073	Radial	12305.33	12317.65	12309.22	12289.12
INDIUM	230.606	Axial	2856.097	2855.538	2854.657	2858.096

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1895.356	1894.734	1893.927	1897.408
ANTIMONY	206.833	Axial	201.3482	200.5907	202.1765	201.2774
ARSENIC	189.042	Axial	202.0291	200.8541	202.5175	202.7155
BARIUM	233.527	Axial	4012.934	4015.118	4011.004	4012.680
BERYLLIUM	313.042	Radial	12362.77	12328.67	12403.99	12355.65
BORON	249.678	Radial	606.0533	607.0478	602.7135	608.3986
CADMIUM	228.802	Axial	6128.375	6141.994	6121.222	6121.910
CALCIUM	373.690	Radial	45099.17	45046.79	45172.33	45078.40
CHROMIUM	267.716	Axial	18587.70	18623.47	18564.35	18575.27
COBALT	228.616	Axial	7077.027	7076.060	7077.519	7077.502
COPPER	324.754	Axial	48635.03	48561.26	48925.51	48418.31
IRON	271.441	Radial	546.6210	548.6492	548.8597	542.3541
LEAD	220.353	Axial	551.8595	551.9932	550.9466	552.6388
LITHIUM	670.784	Radial	15044.63	14997.10	15082.25	15054.54
MAGNESIUM	279.079	Radial	990.0760	986.9640	988.7909	994.4731
MANGANESE	257.610	Axial	134536.8	134545.1	134443.8	134621.5
MOLYBDENUM	202.030	Axial	371.7866	370.9332	372.7677	371.6591
NICKEL	231.604	Axial	3138.563	3137.631	3132.572	3145.486
PHOSPHORUS	177.495	Axial	196.0847	196.3132	195.9989	195.9421
POTASSIUM	766.490	Radial	32640.88	32586.40	32676.24	32660.00
SELENIUM	196.090	Axial	163.9952	164.8508	163.7935	163.3412
SILICON	251.611	Axial	15077.65	14924.00	15150.37	15158.57
SILVER	328.068	Axial	11894.33	11858.99	11957.74	11866.27
SODIUM	818.326	Radial	6693.929	6686.817	6700.995	6693.975
STRONTIUM	421.552	Radial	80704.61	80512.18	80876.26	80725.41
SULFUR	182.034	Axial	585.6215	586.3465	585.6064	584.9117
THALLIUM	190.856	Axial	207.9659	209.2718	208.4943	206.1315
TIN	189.989	Axial	246.3680	244.3951	247.4530	247.2558
TITANIUM	334.941	Radial	8005.464	8012.648	8006.409	7997.334
VANADIUM	292.402	Radial	1347.731	1347.040	1345.597	1350.556
ZINC	206.200	Axial	3475.645	3463.884	3472.869	3490.183

Sample ID: STD6 Units: mg/l
Analyzed: 03/13/25 08:10 Sequence: 8 Standard ID: 25C13930

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10109.29	10117.29	10096.86	10113.72
YTTRIUM	360.073	Axial	284612.5	285488.4	283469.8	284879.4
YTTRIUM	360.073	Radial	11934.94	11854.18	11929.99	12020.63
INDIUM	230.606	Axial	2675.305	2672.847	2675.618	2677.451

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	3693.028	3672.181	3695.252	3711.652
ANTIMONY	206.833	Axial	393.6976	394.9950	393.1975	392.9005
ARSENIC	189.042	Axial	391.5409	393.4452	390.2357	390.9417
BARIUM	233.527	Axial	7581.499	7592.841	7574.898	7576.756
BERYLLIUM	313.042	Radial	23891.41	23767.14	23868.40	24038.69
BORON	249.678	Radial	1179.594	1173.141	1179.285	1186.356
CADMIUM	228.802	Axial	11919.26	11935.91	11904.02	11917.84
CALCIUM	373.690	Radial	87475.99	87128.87	87515.63	87783.47
CERIUM	535.353	Radial	2600.010	2574.530	2609.001	2616.500
CHROMIUM	267.716	Axial	35361.84	35316.01	35412.27	35357.24
COBALT	228.616	Axial	13305.42	13325.56	13291.45	13299.25
COPPER	324.754	Axial	93753.87	93475.56	94381.16	93404.89
IRON	271.441	Radial	1061.361	1063.190	1058.693	1062.202
LANTHANUM	333.749	Radial	7026.350	6985.485	7010.578	7082.987
LEAD	220.353	Axial	1038.942	1038.238	1039.941	1038.646
LITHIUM	670.784	Radial	29781.26	29536.00	29707.35	30100.43
MAGNESIUM	279.079	Radial	1929.326	1930.572	1930.840	1926.567
MANGANESE	257.610	Axial	251984.7	252547.3	252617.5	250789.1
MOLYBDENUM	202.030	Axial	711.0152	714.9627	708.9220	709.1608
NICKEL	231.604	Axial	5906.756	5913.199	5904.582	5902.486
PHOSPHORUS	177.495	Axial	384.9392	385.5891	382.2390	386.9895
POTASSIUM	766.490	Radial	64638.65	64253.34	64561.72	65100.89
SELENIUM	196.090	Axial	316.7591	314.9460	316.8592	318.4720
SILICON	251.611	Axial	29540.87	29202.25	29723.25	29697.10
SILVER	328.068	Axial	23116.62	23084.97	23203.02	23061.88
SODIUM	818.326	Radial	13233.54	13158.92	13205.32	13336.37
STRONTIUM	421.552	Radial	156636.2	155287.2	156597.6	158023.7
SULFUR	182.034	Axial	1148.693	1146.219	1147.879	1151.980
THALLIUM	190.856	Axial	386.0675	384.1198	386.0814	388.0014
TIN	189.989	Axial	469.1641	469.8048	467.8920	469.7955
TITANIUM	334.941	Radial	15539.23	15425.05	15546.89	15645.76
VANADIUM	292.402	Radial	2622.151	2605.317	2623.257	2637.879
ZINC	206.200	Axial	6571.521	6592.378	6558.362	6563.825

Sample ID: STD7 Units: mg/l
Analyzed: 03/13/25 08:13 Sequence: 9 Standard ID: 25C09297

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9513.116	9522.553	9525.577	9491.218
YTTRIUM	360.073	Axial	268171.9	268275.3	268603.6	267636.7
YTTRIUM	360.073	Radial	11729.01	11737.46	11732.21	11717.37
INDIUM	230.606	Axial	2382.521	2387.007	2383.504	2377.053

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	45724.52	45789.96	45768.21	45615.40
CALCIUM	373.690	Radial	208358.4	208738.1	208427.0	207910.0
IRON	271.441	Radial	4951.176	4962.944	4947.406	4943.177
MAGNESIUM	279.079	Radial	24728.92	24822.53	24727.76	24636.48
SODIUM	818.326	Radial	33119.78	33180.92	33121.21	33057.22
SULFUR	182.034	Axial	5584.423	5602.087	5597.602	5553.582

Sample ID: ICV-2 Units: mg/l
Analyzed: 03/13/25 08:17 Sequence: 10 Standard ID: 25C13928

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	10989.24	10995.02	10987.42	10974.18	11000.33
YTTRIUM	360.073	Axial	317210.2	320109.6	320543.4	312149.8	316037.8
YTTRIUM	360.073	Radial	12542.62	12567.12	12562.00	12577.50	12463.84
INDIUM	230.606	Axial	3146.238	3151.258	3152.497	3143.271	3137.927

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	991.5410	10.02576	10.01015	10.11065	9.971703
ANTIMONY	206.833	Axial	201.0364	0.9422874	0.9433977	0.9434093	0.9398905
ARSENIC	189.042	Axial	103.9000	0.9827878	0.9902519	0.9861177	0.9791314
BARIUM	233.527	Axial	4326.090	1.043796	1.049832	1.047035	1.042409
BERYLLIUM	313.042	Radial	31377.50	0.9986040	0.9991677	1.000816	0.9966350
BORON	249.678	Radial	311.9337	0.9990383	1.010930	0.9969094	0.9994291
CADMIUM	228.802	Axial	6288.823	0.9730315	0.9775301	0.9759136	0.9715614
CALCIUM	317.933	Radial	7502.436	9.996446	9.985602	10.03730	9.969158
CHROMIUM	267.716	Axial	10122.69	1.048729	1.045801	1.051385	1.050285
COBALT	228.616	Axial	3786.440	0.9704889	0.9761154	0.9734798	0.9688995
COPPER	324.754	Axial	26004.65	1.014782	1.019122	1.023490	1.013193
IRON	259.940	Radial	5387.093	10.24464	10.24716	10.26929	10.23319
LEAD	220.353	Axial	596.7395	0.9793258	0.9874254	0.9836084	0.9777071
LITHIUM	670.784	Radial	7853.144	1.010306	1.010738	1.015086	1.008551
MAGNESIUM	279.079	Radial	513.3335	9.706364	9.687770	9.753417	9.649946
MANGANESE	257.610	Axial	73266.05	1.061193	1.062378	1.064485	1.058640
MOLYBDENUM	202.030	Axial	800.3585	1.032953	1.035658	1.035512	1.031944
NICKEL	231.604	Axial	1696.047	0.9805668	0.9883751	0.9850129	0.9780434
PHOSPHORUS	177.495	Axial	99.62379	0.9525869	0.9619600	0.9527014	0.9520233
POTASSIUM	766.490	Radial	3296.698	9.952098	9.959041	9.962788	9.943404
SELENIUM	196.090	Axial	82.94725	0.9614637	0.9608456	0.9563595	0.9623281
SILICON	251.611	Axial	4087.110	1.019536	1.004364	1.020754	1.022875
SILVER	328.068	Axial	12426.53	0.9873888	0.9879975	0.9943715	0.9881428
SODIUM	589.592	Radial	12151.44	10.11624	10.13898	10.16121	10.10817
STRONTIUM	421.552	Radial	16890.04	0.4102434	0.4102854	0.4122381	0.4097232
SULFUR	182.034	Axial	611.9621	9.479901	9.215352	9.288588	9.514973
THALLIUM	190.856	Axial	116.8746	1.047649	1.043731	1.045963	1.067432
TIN	189.989	Axial	265.5623	1.036466	1.043403	1.045593	1.034184
TITANIUM	334.941	Radial	4135.045	1.013918	1.012411	1.018429	1.017175
VANADIUM	292.402	Radial	686.8962	0.9985534	1.000836	1.000982	0.9940145
ZINC	206.200	Axial	1822.210	1.011749	1.025509	1.018294	1.007076
CERIUM	535.353	Radial	361.2472	0.07216120	0.04736928	0.05375101	0.09887316
HOT WATER SOL. BORON	249.678	Radial	311.9337	0.9990383	1.010930	0.9969094	0.9994291
LANTHANUM	333.749	Radial	2.015678	-0.001005723	0.0007015495	0.003119721	-0.006825925

Sample ID: ICB-2 Units: mg/l
Analyzed: 03/13/25 08:34 Sequence: 11

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11148.01	11151.06	11141.83	11151.14
YTTRIUM	360.073	Axial	324264.0	325296.6	323570.9	323924.7
YTTRIUM	360.073	Radial	12577.56	12477.10	12596.69	12658.89
INDIUM	230.606	Axial	3324.517	3324.496	3323.509	3325.545

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	9.858787	-0.01629241	0.004169485	-0.03171673	-0.02132997
ANTIMONY	206.833	Axial	0.1254586	-0.001848629	-0.0007429968	-0.003171634	-0.001631256
ARSENIC	189.042	Axial	-0.5552896	0.0008989357	0.001288122	0.001236395	0.0001722897
BARIUM	233.527	Axial	-1.30123	-0.0002320136	-0.000007674538	-0.0003927160	-0.0002956503
BERYLLIUM	313.042	Radial	-8.21632	0.00004201911	0.00006161608	0.00003484420	0.00002959706
BORON	249.678	Radial	1.484964	-0.008037301	-0.003627169	-0.01003467	-0.01045006
CADMIUM	228.802	Axial	2.069158	0.00009738354	0.0002364460	0.0001590571	-0.0001033525
CALCIUM	317.933	Radial	84.44823	0.004115091	0.006079000	0.006938416	-0.0006721438
CERIUM	535.353	Radial	332.6115	-0.05153271	-0.02865017	-0.05859990	-0.06734805
CHROMIUM	267.716	Axial	3.796296	-0.00004709599	0.0006688691	-0.0005597591	-0.0002503979
COBALT	228.616	Axial	-4.71338	0.000001996109	0.0004705076	-0.0003486552	-0.0001158641
COPPER	324.754	Axial	219.4904	0.0003084417	0.0001801870	0.0001961940	0.0005489443
HOT WATER SOL. BORON	249.678	Radial	1.484964	-0.008037301	-0.003627169	-0.01003467	-0.01045006
IRON	259.940	Radial	42.13625	0.00009484786	0.0002527848	-0.0002615534	0.0002933122
LANTHANUM	333.749	Radial	4.691222	0.002578723	-0.001413487	0.001485610	0.007664046
LEAD	220.353	Axial	-0.9724588	0.0007511455	0.001130165	0.001433198	-0.0003099269
LITHIUM	670.784	Radial	-24.0678	-0.001407685	-0.001320615	-0.002225609	-0.0006768304
MAGNESIUM	279.079	Radial	1.424947	0.02365635	0.006825069	0.06110289	0.003041097
MANGANESE	257.610	Axial	17.44013	0.00002685001	0.00001423659	0.00003476485	0.00003154860
MOLYBDENUM	202.030	Axial	0.8730960	-0.000006463233	0.0005763161	0.0003248820	-0.0009205877
NICKEL	231.604	Axial	-5.24241	0.0001793407	-0.00006136082	0.0005379108	0.00006147207
PHOSPHORUS	177.495	Axial	0.1120106	-0.005054516	-0.0004240263	-0.009793748	-0.004945773
POTASSIUM	766.490	Radial	-65.3233	0.008853854	0.01707328	-0.005241034	0.01472932
SELENIUM	196.090	Axial	0.7510537	0.003421926	0.001811533	0.001297374	0.007156871
SILICON	251.611	Axial	20.96001	0.001086670	-0.001319978	0.002507685	0.002072305
SILVER	328.068	Axial	100.0647	-0.0005324745	-0.0009286115	0.0001832190	-0.0008520310
SODIUM	589.592	Radial	45.98149	-0.004443928	-0.01638085	-0.001167203	0.004216270
STRONTIUM	421.552	Radial	16.70991	0.000005098043	0.0001144036	-0.00006176238	-0.00003734709
SULFUR	182.034	Axial	1.905408	0.001397805	0.01111050	-0.002938094	-0.003978990
THALLIUM	190.856	Axial	0.6556015	-0.001422969	0.003009091	-0.004844925	-0.002433073
TIN	189.989	Axial	0.1752866	-0.0001734823	-0.001631779	0.001732291	-0.0006209591
TITANIUM	334.941	Radial	-1.02691	0.0004981974	-0.00002689611	0.00002100834	0.001500480
VANADIUM	292.402	Radial	-0.4714948	0.0003023682	0.001653105	0.001398616	-0.002144617
ZINC	206.200	Axial	6.531708	-0.0008991743	-0.001398594	-0.0001184480	-0.001180480

Sample ID: ICVLL-2 Units: mg/l
Analyzed: 03/13/25 08:42 Sequence: 14 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11181.14	11170.37	11172.99	11200.07
YTTRIUM	360.073	Axial	326211.3	328810.9	323826.1	325997.0
YTTRIUM	360.073	Radial	12550.50	12535.14	12520.86	12595.51
INDIUM	230.606	Axial	3315.293	3324.398	3306.822	3314.661

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	34.73676	0.2382022	0.2364133	0.2538717	0.2243216
ANTIMONY	206.833	Axial	2.363532	0.008486264	0.006341176	0.01025120	0.008866420
ARSENIC	189.042	Axial	0.5506296	0.01112877	0.009604026	0.008581982	0.01520030
BARIUM	233.527	Axial	22.62043	0.005441027	0.005250664	0.005356550	0.005715867
BERYLLIUM	313.042	Radial	55.07625	0.002053914	0.002075935	0.002084888	0.002000919
BORON	249.678	Radial	66.16317	0.2016307	0.1953846	0.2017458	0.2077617
CADMIUM	228.802	Axial	15.15737	0.002087075	0.002114039	0.001928939	0.002218246
CALCIUM	317.933	Radial	821.1415	0.9960711	0.9987965	1.005938	0.9834786
CHROMIUM	267.716	Axial	110.2222	0.01079324	0.01064244	0.01118636	0.01055093
COBALT	228.616	Axial	34.61411	0.009553317	0.009800472	0.009572223	0.009287256
COPPER	324.754	Axial	491.4240	0.01079713	0.01072930	0.01091173	0.01075035
IRON	259.940	Radial	98.05181	0.1073742	0.1087824	0.1079105	0.1054297
LEAD	220.353	Axial	2.261783	0.005777003	0.002765207	0.007911077	0.006654726
LITHIUM	670.784	Radial	98.22040	0.01428389	0.01514148	0.01398547	0.01372472
MAGNESIUM	279.079	Radial	53.85942	1.014870	1.025824	0.9977144	1.021073
MANGANESE	257.610	Axial	801.1579	0.01118510	0.01120657	0.01119375	0.01115497
MOLYBDENUM	202.030	Axial	4.997775	0.005227644	0.005393195	0.004846014	0.005443724
NICKEL	231.604	Axial	12.37967	0.009810832	0.009591485	0.01039770	0.009443308
PHOSPHORUS	177.495	Axial	10.55199	0.09368284	0.09620304	0.08756046	0.09728502
POTASSIUM	766.490	Radial	264.6821	0.9838818	0.9419863	1.027585	0.9820739
SELENIUM	196.090	Axial	1.245768	0.009063138	0.004704622	0.01349423	0.008990557
SILICON	251.611	Axial	763.5395	0.1838582	0.1822584	0.1844639	0.1848524
SILVER	328.068	Axial	175.3056	0.005369757	0.005613932	0.004819782	0.005675557
SODIUM	589.592	Radial	1278.697	1.025653	1.025827	1.030885	1.020247
STRONTIUM	421.552	Radial	452.1263	0.01058538	0.01074777	0.01056965	0.01043873
SULFUR	182.034	Axial	61.14702	0.9059231	0.9254447	0.8851732	0.9071515
THALLIUM	190.856	Axial	2.175230	0.01187856	0.01422385	0.01159145	0.009820380
TIN	189.989	Axial	13.81311	0.05218001	0.05018868	0.05395955	0.05239181
TITANIUM	334.941	Radial	207.0105	0.05144316	0.05111303	0.05191471	0.05130174
VANADIUM	292.402	Radial	10.57439	0.01631884	0.01751567	0.01255356	0.01888729
ZINC	206.200	Axial	98.05581	0.04925689	0.04920991	0.04981288	0.04874789
CERIUM	535.353	Radial	348.8755	0.01945699	0.04562642	0.01846127	-0.005716713
HOT WATER SOL. BORON	249.678	Radial	66.16317	0.2016307	0.1953846	0.2017458	0.2077617
LANTHANUM	333.749	Radial	2.192871	-0.0007623782	0.001679690	0.0006696083	-0.004636433

Sample ID: ICSA-2 Units: mg/l
Analyzed: 03/13/25 08:45 Sequence: 15 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9636.448	9628.086	9641.301	9639.958
YTTRIUM	360.073	Axial	274150.1	273063.2	274779.5	274607.5
YTTRIUM	360.073	Radial	11797.72	11842.25	11840.15	11710.76
INDIUM	230.606	Axial	2489.355	2492.486	2494.238	2481.343

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	46776.43	508.5792	508.8847	508.8674	507.9855
ANTIMONY	206.833	Axial	-0.4260286	-0.004712001	-0.003560192	-0.004893449	-0.005682363
ARSENIC	189.042	Axial	-1.10381	-0.005792129	-0.01402587	-0.006616164	0.003265651
BARIUM	233.527	Axial	7.355755	0.002101114	0.001681713	0.002128375	0.002493255
BERYLLIUM	313.042	Radial	-13.1786	-0.0001429453	-0.0002463687	-0.00009192596	-0.00009054129
BORON	249.678	Radial	-3.54104	-0.02507207	-0.02316674	-0.02688909	-0.02516037
CADMIUM	228.802	Axial	7.499974	0.001105337	0.001131414	0.001240206	0.0009443893
CALCIUM	373.690	Radial	212718.8	504.7244	504.4973	504.1338	505.5421
CERIUM	535.353	Radial	315.5948	-0.03537677	-0.05261518	-0.07329552	0.01978038
CHROMIUM	267.716	Axial	-21.5108	-0.002977348	-0.003128307	-0.003046045	-0.002757691
COBALT	228.616	Axial	0.2033915	0.001209249	0.001517745	0.001249858	0.0008601425
COPPER	324.754	Axial	-125.687	-0.01384132	-0.01364539	-0.01403966	-0.01383890
HOT WATER SOL. BORON	249.678	Radial	-3.54104	-0.02507207	-0.02316674	-0.02688909	-0.02516037
IRON	271.441	Radial	4987.189	199.7435	199.3164	199.5789	200.3352
LANTHANUM	333.749	Radial	-4.99935	-0.01093232	-0.01396169	-0.009597291	-0.009237973
LEAD	220.353	Axial	-5.39314	-0.008900102	-0.009012509	-0.01041232	-0.007275473
LITHIUM	670.784	Radial	-5.26750	0.0009581725	0.001743127	-0.0002679187	0.001399309
MAGNESIUM	279.079	Radial	25207.47	506.8968	506.2758	505.5816	508.8329
MANGANESE	257.610	Axial	112.1682	0.001630883	0.001576570	0.001651946	0.001664132
MOLYBDENUM	202.030	Axial	0.6886258	-0.0001039387	0.00001737262	0.001192259	-0.001521447
NICKEL	231.604	Axial	-17.1071	-0.009421016	-0.01025318	-0.009830222	-0.008179647
PHOSPHORUS	177.495	Axial	1.326423	0.008440357	0.006558925	-0.002844411	0.02160656
POTASSIUM	766.490	Radial	-71.7665	-0.02413408	-0.05615029	0.001800898	-0.01805284
SELENIUM	196.090	Axial	0.3917994	-0.000002577646	-0.009754002	-0.0003425868	0.01008886
SILICON	251.611	Axial	-82.8175	-0.02774185	-0.02740061	-0.02785833	-0.02796661
SILVER	328.068	Axial	80.82027	-0.001051698	-0.001705897	-0.001380621	-0.00006857471
SODIUM	589.592	Radial	74.47309	0.02347080	0.01409121	0.03176479	0.02455642
STRONTIUM	421.552	Radial	255.3097	0.006198191	0.006156709	0.006406421	0.006031442
SULFUR	182.034	Axial	-8.52515	-0.1788250	-0.1721917	-0.1758299	-0.1884535
THALLIUM	190.856	Axial	-0.4214962	-0.01159576	-0.006937048	-0.01331638	-0.01453384
TIN	189.989	Axial	-1.51840	-0.007612868	-0.008278642	-0.007192522	-0.007367439
TITANIUM	334.941	Radial	-55.9633	-0.01382504	-0.01546715	-0.01230987	-0.01369811
VANADIUM	292.402	Radial	-4.53963	-0.006042197	-0.002109109	-0.007317879	-0.008699605
ZINC	206.200	Axial	12.23115	0.003288463	0.002885818	0.003341095	0.003638476

Sample ID: ICSAB-2 Units: mg/l
Analyzed: 03/13/25 08:48 Sequence: 16 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9645.490	9642.854	9616.382	9677.234
YTTRIUM	360.073	Axial	275325.5	275592.6	274714.3	275669.6
YTTRIUM	360.073	Radial	11887.19	11920.25	11878.18	11863.14
INDIUM	230.606	Axial	2486.230	2492.669	2472.301	2493.721

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	47874.37	516.6040	515.8881	517.1388	516.7849
ANTIMONY	206.833	Axial	93.54599	0.4984244	0.5050786	0.5030232	0.4871714
ARSENIC	189.042	Axial	46.47029	0.5037884	0.5102202	0.5122836	0.4888612
BARIUM	233.527	Axial	1867.736	0.5134670	0.5136655	0.5137894	0.5129462
BERYLLIUM	313.042	Radial	15033.83	0.5049913	0.5039231	0.5057014	0.5053496
BORON	249.678	Radial	292.0139	0.9866664	0.9859119	0.9994736	0.9746137
CADMIUM	228.802	Axial	5909.864	1.041803	1.043678	1.041846	1.039885
CALCIUM	373.690	Radial	217906.2	513.1400	512.4741	513.2219	513.7241
CERIUM	535.353	Radial	309.4557	-0.07318607	-0.1355298	-0.04615905	-0.03786932
CHROMIUM	267.716	Axial	4201.882	0.4957426	0.4958362	0.4971818	0.4942098
COBALT	228.616	Axial	1541.508	0.5005466	0.4999646	0.5020059	0.4996693
COPPER	324.754	Axial	11956.74	0.5276830	0.5280450	0.5267563	0.5282477
HOT WATER SOL. BORON	249.678	Radial	292.0139	0.9866664	0.9859119	0.9994736	0.9746137
IRON	271.441	Radial	5118.669	203.4645	203.1062	202.8730	204.4144
LANTHANUM	333.749	Radial	-6.03525	-0.01236836	-0.01026838	-0.01302583	-0.01381089
LEAD	220.353	Axial	466.8922	0.9696765	0.9665827	0.9713316	0.9711151
LITHIUM	670.784	Radial	-12.8290	-0.00006475300	0.001152824	0.0001511469	-0.001498229
MAGNESIUM	279.079	Radial	25898.64	516.8698	516.0229	516.7407	517.8458
MANGANESE	257.610	Axial	30776.48	0.5077575	0.5081601	0.5082801	0.5068324
MOLYBDENUM	202.030	Axial	339.5223	0.4986634	0.4987567	0.5004125	0.4968209
NICKEL	231.604	Axial	1331.772	0.9744007	0.9728865	0.9775892	0.9727262
PHOSPHORUS	177.495	Axial	1.413355	0.009401956	0.003100627	0.02336606	0.001739176
POTASSIUM	766.490	Radial	-47.2679	0.05399752	0.04407815	0.08513245	0.03278195
SELENIUM	196.090	Axial	40.51488	0.5327401	0.5410360	0.5305675	0.5266169
SILICON	251.611	Axial	3401.790	0.9665964	0.9633991	0.9721779	0.9642122
SILVER	328.068	Axial	10149.32	0.9181975	0.9048964	0.9216008	0.9280954
SODIUM	589.592	Radial	146.6575	0.08665133	0.08003801	0.09578508	0.08413088
STRONTIUM	421.552	Radial	261.2584	0.006301611	0.006412411	0.006167007	0.006325416
SULFUR	182.034	Axial	-8.86917	-0.1847989	-0.1857438	-0.1953638	-0.1732891
THALLIUM	190.856	Axial	44.49287	0.4554221	0.4497553	0.4554639	0.4610473
TIN	189.989	Axial	107.1990	0.4762115	0.4764723	0.4742238	0.4779384
TITANIUM	334.941	Radial	1887.671	0.4887735	0.4903566	0.4891143	0.4868495
VANADIUM	292.402	Radial	310.9814	0.4775126	0.4789674	0.4786815	0.4748890
ZINC	206.200	Axial	1534.468	0.9705040	0.9711646	0.9740568	0.9662906

Sample ID: ICSA-2 Units: mg/l
Analyzed: 03/13/25 13:48 Sequence: 95 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9423.827	9528.141	9229.112	9514.229
YTTRIUM	360.073	Axial	272678.7	272574.3	272587.9	272873.9
YTTRIUM	360.073	Radial	11934.30	11936.16	11979.67	11887.07
INDIUM	230.606	Axial	2454.669	2474.021	2413.212	2476.774

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	47317.46	508.5764	508.6895	508.4446	508.5950
ANTIMONY	206.833	Axial	0.2447552	-0.001049451	0.0004025213	0.002864444	-0.006415318
ARSENIC	189.042	Axial	-1.12589	-0.006348813	-0.003123066	-0.01124162	-0.004681749
BARIUM	233.527	Axial	7.468821	0.002177823	0.002560153	0.002103724	0.001869591
BERYLLIUM	313.042	Radial	-8.61778	0.00001444088	0.00001738427	0.00002095861	0.000004979764
BORON	249.678	Radial	-2.70594	-0.02208973	-0.02222251	-0.02007419	-0.02397249
CADMIUM	228.802	Axial	5.229045	0.0007240974	0.001079669	0.0006151941	0.0004774294
CALCIUM	373.690	Radial	215099.5	504.5300	504.7616	504.1750	504.6533
CERIUM	535.353	Radial	305.7569	-0.09502639	-0.1116473	-0.05560185	-0.1178300
CHROMIUM	267.716	Axial	-20.2452	-0.002886483	-0.002309028	-0.003334498	-0.003015924
COBALT	228.616	Axial	1.633812	0.001676500	0.002177919	0.001240313	0.001611268
COPPER	324.754	Axial	-113.030	-0.01338605	-0.01325091	-0.01318162	-0.01372562
HOT WATER SOL. BORON	249.678	Radial	-2.70594	-0.02208973	-0.02222251	-0.02007419	-0.02397249
IRON	271.441	Radial	4988.227	197.4968	197.5609	197.4771	197.4523
LANTHANUM	333.749	Radial	-6.25900	-0.01264845	-0.01061081	-0.01425461	-0.01307993
LEAD	220.353	Axial	-6.50734	-0.01138247	-0.01454076	-0.009339123	-0.01026752
LITHIUM	670.784	Radial	-3.57112	0.001192217	0.0005682123	0.002143377	0.0008650608
MAGNESIUM	279.079	Radial	25350.71	503.9371	503.2718	503.8631	504.6765
MANGANESE	257.610	Axial	119.1550	0.001789873	0.001885378	0.001707630	0.001776612
MOLYBDENUM	202.030	Axial	2.021527	0.001915019	0.0005259434	0.0006444583	0.004574655
NICKEL	231.604	Axial	-17.5956	-0.009958574	-0.01038172	-0.009785688	-0.009708319
PHOSPHORUS	177.495	Axial	1.803257	0.01414468	0.006692477	0.01623378	0.01950778
POTASSIUM	766.490	Radial	-64.6772	0.0004250671	0.01162462	0.008373183	-0.01872260
SELENIUM	196.090	Axial	2.765757	0.03230963	0.02829663	0.02506040	0.04357185
SILICON	251.611	Axial	-71.7081	-0.02503344	-0.02450752	-0.02523842	-0.02535440
SILVER	328.068	Axial	86.65204	-0.0003269706	-0.001326992	0.0008995892	-0.0005535086
SODIUM	589.592	Radial	110.6014	0.05445837	0.05661227	0.05126597	0.05549688
STRONTIUM	421.552	Radial	259.2104	0.006222723	0.006295308	0.006270182	0.006102679
SULFUR	182.034	Axial	-7.71615	-0.1675301	-0.1731092	-0.1629851	-0.1664960
THALLIUM	190.856	Axial	-0.2510383	-0.009840639	-0.005798697	-0.01867760	-0.005045617
TIN	189.989	Axial	-0.5090993	-0.003175890	-0.002250369	-0.003926603	-0.003350700
TITANIUM	334.941	Radial	-52.4843	-0.01276186	-0.01285623	-0.01311728	-0.01231205
VANADIUM	292.402	Radial	-6.36331	-0.008730400	-0.008632072	-0.01077890	-0.006780232
ZINC	206.200	Axial	26.18861	0.01254922	0.01170076	0.01330700	0.01263991

Sample ID: ICSAB-2 Units: mg/l
Analyzed: 03/13/25 13:50 Sequence: 96 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9563.453	9543.188	9573.137	9574.033
YTTRIUM	360.073	Axial	272087.0	271085.2	272924.4	272251.5
YTTRIUM	360.073	Radial	11885.17	11838.77	11933.43	11883.31
INDIUM	230.606	Axial	2477.571	2477.065	2478.441	2477.207

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	47938.49	517.3846	518.4950	517.3392	516.3196
ANTIMONY	206.833	Axial	92.13152	0.4950657	0.4955518	0.4933042	0.4963411
ARSENIC	189.042	Axial	45.02611	0.4924311	0.4915027	0.4983895	0.4874010
BARIUM	233.527	Axial	1847.967	0.5123907	0.5135287	0.5130859	0.5105575
BERYLLIUM	313.042	Radial	15061.79	0.5060175	0.5074037	0.5050764	0.5055725
BORON	249.678	Radial	288.6002	0.9751270	0.9642496	0.9846633	0.9764682
CADMIUM	228.802	Axial	5856.553	1.041260	1.042235	1.042674	1.038870
CALCIUM	373.690	Radial	218717.2	515.1403	517.0356	514.2906	514.0946
CERIUM	535.353	Radial	314.6544	-0.05004783	-0.03627326	-0.05429658	-0.05957364
CHROMIUM	267.716	Axial	4223.401	0.5025593	0.5032962	0.5027514	0.5016305
COBALT	228.616	Axial	1523.237	0.4963475	0.4952807	0.4988408	0.4949210
COPPER	324.754	Axial	11879.32	0.5287814	0.5286756	0.5301957	0.5274729
HOT WATER SOL. BORON	249.678	Radial	288.6002	0.9751270	0.9642496	0.9846633	0.9764682
IRON	271.441	Radial	5072.682	201.6710	202.2359	201.6998	201.0773
LANTHANUM	333.749	Radial	-5.65902	-0.01182209	-0.009586282	-0.01463851	-0.01124149
LEAD	220.353	Axial	465.8890	0.9709681	0.9752680	0.9675144	0.9701221
LITHIUM	670.784	Radial	-4.74840	0.001032958	0.001432973	0.0008910793	0.0007748211
MAGNESIUM	279.079	Radial	25954.13	518.0682	520.6628	517.3311	516.2108
MANGANESE	257.610	Axial	30368.10	0.5053160	0.5060664	0.5048762	0.5050053
MOLYBDENUM	202.030	Axial	335.0630	0.4963258	0.4957775	0.4981905	0.4950093
NICKEL	231.604	Axial	1323.312	0.9715937	0.9701780	0.9749836	0.9696195
PHOSPHORUS	177.495	Axial	1.704319	0.01272536	0.007737130	0.02091592	0.009523015
POTASSIUM	766.490	Radial	-62.3205	0.007049724	-0.01024406	-0.05379857	0.08519180
SELENIUM	196.090	Axial	38.75924	0.5138425	0.5169211	0.5295010	0.4951055
SILICON	251.611	Axial	3365.646	0.9645136	0.9649600	0.9653589	0.9632220
SILVER	328.068	Axial	10045.85	0.9166392	0.9277819	0.9128889	0.9092469
SODIUM	589.592	Radial	135.2719	0.07660769	0.07150766	0.08168097	0.07663445
STRONTIUM	421.552	Radial	270.4501	0.006538643	0.006476452	0.006532755	0.006606720
SULFUR	182.034	Axial	-8.77522	-0.1844321	-0.1722739	-0.1905098	-0.1905127
THALLIUM	190.856	Axial	43.96733	0.4553938	0.4536826	0.4594329	0.4530657
TIN	189.989	Axial	105.1948	0.4713137	0.4729671	0.4719660	0.4690081
TITANIUM	334.941	Radial	1886.077	0.4884564	0.4908558	0.4839272	0.4905861
VANADIUM	292.402	Radial	310.5217	0.4768964	0.4808275	0.4772574	0.4726045
ZINC	206.200	Axial	1506.453	0.9609054	0.9600782	0.9645363	0.9581016

Sample ID: CCV Units: mg/l
Analyzed: 03/13/25 20:37 Sequence: 218 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10527.72	10515.48	10533.64	10534.04
YTTRIUM	360.073	Axial	305974.3	309271.5	306057.3	302594.0
YTTRIUM	360.073	Radial	12281.14	12266.85	12317.21	12259.37
INDIUM	230.606	Axial	2986.379	2975.947	2991.295	2991.894

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	960.5512	9.918044	9.978024	9.861531	9.914576
ANTIMONY	206.833	Axial	103.6641	0.5060656	0.5018624	0.5050065	0.5113280
ARSENIC	189.042	Axial	102.7297	1.014122	1.012398	1.019262	1.010705
BARIUM	233.527	Axial	2081.089	0.5241746	0.5251422	0.5223636	0.5250180
BERYLLIUM	313.042	Radial	6335.637	0.2061693	0.2066948	0.2053213	0.2064917
BORON	249.678	Radial	303.3273	0.9921042	0.9966339	0.9825250	0.9971537
CADMIUM	228.802	Axial	3118.562	0.5035641	0.5049049	0.5022565	0.5035309
CALCIUM	373.690	Radial	23107.82	52.62284	52.87823	52.39780	52.59251
CHROMIUM	267.716	Axial	9739.946	1.053314	1.053969	1.052966	1.053007
COBALT	228.616	Axial	3688.455	0.9959661	0.9999432	0.9922313	0.9957240
COPPER	324.754	Axial	25311.88	1.031181	1.035988	1.027968	1.029589
IRON	259.940	Radial	5205.171	10.10843	10.15536	10.08050	10.08943
LEAD	220.353	Axial	287.8223	0.4987528	0.4974050	0.5005111	0.4983421
LITHIUM	670.784	Radial	7916.974	1.040162	1.035608	1.039153	1.045726
MAGNESIUM	279.079	Radial	500.8593	9.672064	9.717663	9.651727	9.646803
MANGANESE	257.610	Axial	69238.75	1.046824	1.049145	1.044015	1.047311
MOLYBDENUM	202.030	Axial	193.4344	0.2597573	0.2611410	0.2594995	0.2586316
NICKEL	231.604	Axial	1632.623	0.9944025	0.9988310	0.9934992	0.9908772
PHOSPHORUS	177.495	Axial	99.25930	0.9909517	0.9897749	0.9920596	0.9910206
POTASSIUM	766.490	Radial	16948.27	51.39673	51.47345	51.20987	51.50687
SELENIUM	196.090	Axial	83.81716	1.014428	1.021729	0.9900732	1.031482
SILICON	251.611	Axial	7969.585	2.079402	2.067603	2.074043	2.096559
SILVER	328.068	Axial	6420.305	0.5286229	0.5319115	0.5270240	0.5269332
SODIUM	818.326	Radial	3523.048	52.48823	52.46605	52.54712	52.45152
STRONTIUM	421.552	Radial	41261.48	1.024152	1.025227	1.019864	1.027366
SULFUR	182.034	Axial	296.1215	4.774589	4.765476	4.755571	4.802721
THALLIUM	190.856	Axial	110.0631	1.022682	1.002019	1.033640	1.032388
TIN	189.989	Axial	128.3901	0.5226394	0.5209518	0.5242549	0.5227116
TITANIUM	334.941	Radial	4067.663	1.018640	1.020618	1.018971	1.016329
VANADIUM	292.402	Radial	674.8920	1.001991	1.003208	0.9989001	1.003866
ZINC	206.200	Axial	1789.003	1.036970	1.041095	1.035391	1.034422
CERIUM	535.353	Radial	353.4876	0.07126314	0.1629952	-0.008677821	0.05947205
HOT WATER SOL. BORON	249.678	Radial	303.3273	0.9921042	0.9966339	0.9825250	0.9971537
LANTHANUM	333.749	Radial	3.634349	0.001292767	0.005599707	-0.0007545208	-0.0009668840

Sample ID: CCB Units: mg/l
Analyzed: 03/13/25 20:40 Sequence: 219

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10935.94	10965.96	10924.56	10917.28
YTTRIUM	360.073	Axial	320774.7	320401.2	321421.7	320501.2
YTTRIUM	360.073	Radial	12411.01	12380.69	12424.72	12427.62
INDIUM	230.606	Axial	3304.377	3319.941	3296.258	3296.931

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	12.07808	0.007894341	-0.01979108	0.04406033	-0.0005862319
ANTIMONY	206.833	Axial	0.5370555	0.0001065353	0.0001450576	0.0002549236	-0.00008037523
ARSENIC	189.042	Axial	-0.04160773	0.005657924	0.001277601	0.006486011	0.009210162
BARIUM	233.527	Axial	2.924608	0.0007869894	0.0005180275	0.0005223566	0.001320584
BERYLLIUM	313.042	Radial	-11.6594	-0.00007229139	-0.00008947081	-0.00008941922	-0.00003798414
BORON	249.678	Radial	3.234158	-0.002257300	-0.003275247	0.0001014679	-0.003598122
CADMIUM	228.802	Axial	5.774450	0.0006806761	0.00004128809	0.0005937729	0.001406967
CALCIUM	317.933	Radial	78.56698	-0.002382236	-0.001737408	-0.005630924	0.0002216245
CERIUM	535.353	Radial	338.3607	-0.008676908	-0.01859261	0.02837160	-0.03580971
CHROMIUM	267.716	Axial	6.027778	0.0001929729	0.0001479791	0.0005035073	-0.00007256772
COBALT	228.616	Axial	-0.4766914	0.001030168	-0.000005272333	0.0009001901	0.002195587
COPPER	324.754	Axial	218.1912	0.0004220838	0.0005384813	0.00005239842	0.0006753715
HOT WATER SOL. BORON	249.678	Radial	3.234158	-0.002257300	-0.003275247	0.0001014679	-0.003598122
IRON	259.940	Radial	41.94437	0.0008039691	0.0009354010	0.001211226	0.0002652801
LANTHANUM	333.749	Radial	2.789975	0.00007970523	-0.001679710	0.002301228	-0.0003824026
LEAD	220.353	Axial	-1.37271	0.0001201839	-0.0009009986	0.0006152577	0.0006462924
LITHIUM	670.784	Radial	-16.2586	-0.0004336890	0.0002332517	-0.0008750515	-0.0006592673
MAGNESIUM	279.079	Radial	1.101724	0.01786252	0.02021460	0.03869219	-0.005319229
MANGANESE	257.610	Axial	29.47774	0.0002069923	0.0001543986	0.0002254861	0.0002410922
MOLYBDENUM	202.030	Axial	1.273367	0.0005366276	-0.0007159511	0.0001419103	0.002183924
NICKEL	231.604	Axial	-2.57271	0.001629751	0.0004015446	0.0009535180	0.003534189
PHOSPHORUS	177.495	Axial	0.7378038	0.001017528	0.002570224	-0.003202426	0.003684786
POTASSIUM	766.490	Radial	-67.3739	0.0001125262	-0.007538493	-0.005719608	0.01359568
SELENIUM	196.090	Axial	0.1962015	-0.002903788	-0.005341239	-0.005326401	0.001956277
SILICON	251.611	Axial	63.91338	0.01199745	0.01158793	0.01184977	0.01255465
SILVER	328.068	Axial	104.7230	-0.000004060834	-0.0001028389	-0.0002593190	0.0003499754
SODIUM	589.592	Radial	65.78811	0.01284608	0.003460334	0.01999749	0.01508040
STRONTIUM	421.552	Radial	12.16881	-0.0001013640	-0.00002352939	-0.0001298400	-0.0001507226
SULFUR	182.034	Axial	1.628725	-0.002346977	-0.008763975	0.005539471	-0.003816427
THALLIUM	190.856	Axial	0.8739043	0.0006047444	0.003312589	-0.008514560	0.007016204
TIN	189.989	Axial	0.5811586	0.001430162	0.003063270	-0.0003835172	0.001610732
TITANIUM	334.941	Radial	1.998211	0.001247899	0.001827904	0.0004433000	0.001472494
VANADIUM	292.402	Radial	-2.95618	-0.003363830	-0.005098417	-0.0004526343	-0.004540441
ZINC	206.200	Axial	7.376227	-0.0003554433	-0.001070024	-0.0002265227	0.0002302166

Sample ID: BLANK DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 20:43 Sequence: 220

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10908.18	10905.89	10886.26	10932.39
YTTRIUM	360.073	Axial	322671.0	322402.2	324707.1	320903.7
YTTRIUM	360.073	Radial	12450.13	12488.59	12451.11	12410.69
INDIUM	230.606	Axial	3282.803	3273.100	3280.540	3294.768

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	11.86974	0.005380224	0.01695020	-0.01055390	0.009744368
ARSENIC	189.042	Axial	-0.1982864	0.004166271	0.005940608	0.002801935	0.003756271
BARIUM	233.527	Axial	-0.5772899	-0.00006294633	-0.000006233049	-0.0001888165	0.000006210588
BORON	249.678	Radial	3.355870	-0.001890614	-0.001465437	-0.003757588	-0.0004488184
CADMIUM	228.802	Axial	2.601928	0.0001875389	0.0001118548	0.0003510605	0.00009970148
CHROMIUM	267.716	Axial	6.759259	0.0002712259	0.00009026804	0.0005707468	0.0001526628
COBALT	228.616	Axial	-4.38224	0.00006911483	-0.00002722820	0.0004648825	-0.0002303098
COPPER	324.754	Axial	216.3022	0.0003689060	0.0002217699	0.0002033592	0.0006815889
IRON	259.940	Radial	41.94616	0.0005539654	-0.0005427070	0.0007817578	0.001422845
LEAD	220.353	Axial	-0.9205670	0.0008151847	0.001268205	0.001464492	-0.0002871432
LITHIUM	670.784	Radial	-1.72241	0.001456674	-0.0008309572	0.002471860	0.002729118
MANGANESE	257.610	Axial	23.38088	0.0001191118	0.0001004150	0.0001894247	0.00006749555
SELENIUM	196.090	Axial	-0.4066784	-0.009980520	-0.004029589	-0.01356248	-0.01234950
SILVER	328.068	Axial	95.63475	-0.0007162135	-0.0006982648	-0.0005086414	-0.0009417341
THALLIUM	190.856	Axial	1.161416	0.003109304	0.009017624	-0.001399483	0.001709772
ZINC	206.200	Axial	2.900160	-0.002861249	-0.002650716	-0.003309194	-0.002623838
ANTIMONY	206.833	Axial	0.1852487	-0.001553372	-0.001166627	-0.002443425	-0.001050062
BERYLLIUM	313.042	Radial	-11.0653	-0.00005193238	-0.00007917264	-0.0001077270	0.00003110247
CALCIUM	317.933	Radial	79.28801	-0.001738585	-0.004164937	0.001220709	-0.002271526
MAGNESIUM	279.079	Radial	1.303359	0.02161595	0.02421472	0.03323267	0.007400445
MOLYBDENUM	202.030	Axial	0.5522702	-0.0004010353	-0.0007522863	-0.001147474	0.0006966542
NICKEL	231.604	Axial	-4.85694	0.0003548128	0.00003590180	0.00009671012	0.0009318265
PHOSPHORUS	177.495	Axial	1.691381	0.01027931	0.005417331	0.01135189	0.01406870
POTASSIUM	766.490	Radial	-63.1147	0.01339281	0.01460474	0.06064398	-0.03507029
SILICON	251.611	Axial	50.40645	0.008630600	0.007473318	0.009884169	0.008534312
SODIUM	589.592	Radial	52.81493	0.001759410	-0.002562295	0.006950830	0.0008896956
STRONTIUM	421.552	Radial	9.309420	-0.0001726756	-0.00009141814	-0.0001079203	-0.0003186884
SULFUR	182.034	Axial	1.708749	-0.001036855	-0.007268401	0.003010074	0.001147762
TIN	189.989	Axial	2.089918	0.007375012	0.007747062	0.007067769	0.007310204
TITANIUM	334.941	Radial	-3.32756	-0.00006853043	-0.00004666886	-0.0004993302	0.0003404078
VANADIUM	292.402	Radial	-1.29029	-0.0009143477	0.0008216667	-0.001086960	-0.002477750
CERIUM	535.353	Radial	335.8910	-0.02352530	-0.06006041	-0.007131680	-0.003383814
LANTHANUM	333.749	Radial	2.275587	-0.0006322922	0.002209692	-0.006120802	0.002014233

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 20:46 Sequence: 221

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10655.66	10686.60	10613.08	10667.28
YTTRIUM	360.073	Axial	310295.6	309221.5	311441.5	310223.7
YTTRIUM	360.073	Radial	12360.54	12412.07	12366.47	12303.08
INDIUM	230.606	Axial	3129.817	3136.996	3116.258	3136.196

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	964.7964	9.897650	9.917312	9.820571	9.955066
ARSENIC	189.042	Axial	99.95965	0.9751782	0.9720168	0.9828478	0.9706701
BARIUM	233.527	Axial	4194.544	1.043740	1.043092	1.044180	1.043949
BORON	249.678	Radial	295.1289	0.9586641	0.9550237	0.9551445	0.9658240
CADMIUM	228.802	Axial	5996.661	0.9568730	0.9553770	0.9586287	0.9566134
CHROMIUM	267.716	Axial	9834.943	1.050816	1.051538	1.051241	1.049670
COBALT	228.616	Axial	3669.583	0.9455179	0.9445303	0.9488201	0.9432034
COPPER	324.754	Axial	25700.32	1.034472	1.031603	1.041488	1.030325
IRON	259.940	Radial	5162.507	9.960153	9.926961	9.912270	10.04123
LEAD	220.353	Axial	570.3183	0.9409868	0.9408128	0.9456447	0.9365030
LITHIUM	670.784	Radial	8048.427	1.050627	1.054361	1.041373	1.056146
MANGANESE	257.610	Axial	70275.65	1.049750	1.046683	1.052715	1.049852
SELENIUM	196.090	Axial	78.82584	0.9422159	0.9374676	0.9545550	0.9346252
SILVER	328.068	Axial	2416.731	0.1912986	0.1904681	0.1931160	0.1903116
THALLIUM	190.856	Axial	112.0013	1.026130	1.030072	1.017425	1.030892
ZINC	206.200	Axial	1715.635	0.9822751	0.9803068	0.9876029	0.9789156
ANTIMONY	206.833	Axial	196.2428	0.9486268	0.9481135	0.9455223	0.9522446
BERYLLIUM	313.042	Radial	30861.64	0.9966714	0.9940955	0.9923063	1.003612
CALCIUM	317.933	Radial	7204.440	9.738164	9.681089	9.735045	9.798359
MAGNESIUM	279.079	Radial	483.4857	9.276634	9.241631	9.223074	9.365198
MOLYBDENUM	202.030	Axial	778.9053	1.036737	1.038754	1.036560	1.034898
NICKEL	231.604	Axial	1636.387	0.9511481	0.9495275	0.9539069	0.9500100
PHOSPHORUS	177.495	Axial	93.94043	0.9262042	0.9180448	0.9291644	0.9314035
POTASSIUM	766.490	Radial	3276.594	10.03563	9.970299	10.01701	10.11958
SILICON	251.611	Axial	3533.692	0.9086501	0.9015214	0.9139493	0.9104796
SODIUM	589.592	Radial	12152.18	10.26673	10.27127	10.20734	10.32158
STRONTIUM	421.552	Radial	41715.14	1.028769	1.029007	1.021571	1.035729
SULFUR	182.034	Axial	559.6001	8.938628	8.955863	8.947108	8.912913
TIN	189.989	Axial	257.5804	1.036800	1.032719	1.045454	1.032227
TITANIUM	334.941	Radial	4042.706	1.005918	1.003375	0.9983195	1.016058
VANADIUM	292.402	Radial	664.7573	0.9806430	0.9751882	0.9775027	0.9892381
CERIUM	535.353	Radial	331.6132	-0.03142061	-0.08055596	0.01308578	-0.02679166
LANTHANUM	333.749	Radial	5.617760	0.003978671	0.005951024	0.004154881	0.001830108

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834761-01 DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 20:49 Sequence: 222

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10980.42	10967.59	10977.32	10996.34
YTTRIUM	360.073	Axial	323046.8	325327.7	323706.1	320106.6
YTTRIUM	360.073	Radial	13202.11	13175.51	13223.64	13207.17
INDIUM	230.606	Axial	2896.623	2895.650	2893.419	2900.799

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	7794.378	75.63127	75.94421	75.11432	75.83529
ARSENIC	189.042	Axial	-1.96985	-0.01248973	-0.008693361	-0.02051272	-0.008263107
BARIUM	233.527	Axial	3627.959	0.8760666	0.8768314	0.8751758	0.8761927
BORON	249.678	Radial	-3.09223	-0.02238291	-0.01684073	-0.02706161	-0.02324639
CADMIUM	228.802	Axial	28.14574	0.004139840	0.002960681	0.003911893	0.005546944
CHROMIUM	267.716	Axial	119.7937	0.01199104	0.01158678	0.01243181	0.01195454
COBALT	228.616	Axial	427.4125	0.1199923	0.1186196	0.1192973	0.1220599
COPPER	324.754	Axial	752.0693	0.02140617	0.02127841	0.02180107	0.02113901
IRON	271.441	Radial	12660.52	453.0943	454.9635	451.0465	453.2731
LEAD	220.353	Axial	10.21335	0.02042285	0.02143411	0.02079930	0.01903515
LITHIUM	670.784	Radial	472.6766	0.05935464	0.06053091	0.05662108	0.06091192
MANGANESE	257.610	Axial	550411.4	7.980106	8.025103	7.968586	7.946629
SELENIUM	196.090	Axial	-5.12842	-0.06502053	-0.06648529	-0.06296952	-0.06560678
SILVER	328.068	Axial	58.63955	-0.003734515	-0.003841523	-0.003808749	-0.003553271
THALLIUM	190.856	Axial	-3.49997	-0.03822579	-0.03396380	-0.04269614	-0.03801742
ZINC	206.200	Axial	1132.265	0.6274761	0.6273689	0.6280113	0.6270482
ANTIMONY	206.833	Axial	6.502868	0.02815350	0.02988355	0.02529521	0.02928172
BERYLLIUM	313.042	Radial	163.5848	0.005247203	0.005190150	0.005192886	0.005358572
CALCIUM	373.690	Radial	33219.34	70.39003	70.50164	70.15864	70.50983
MAGNESIUM	279.079	Radial	2234.965	40.15868	40.25146	40.01573	40.20884
MOLYBDENUM	202.030	Axial	6.090405	0.006755262	0.004882381	0.007196693	0.008186711
NICKEL	231.604	Axial	-14.5944	-0.006098293	-0.007298069	-0.005883724	-0.005113087
PHOSPHORUS	177.495	Axial	1457.036	14.02656	14.08698	14.00077	13.99193
POTASSIUM	766.490	Radial	3320.826	9.532891	9.578065	9.490825	9.529783
SILICON	251.611	Axial	54472.00	13.64950	13.68074	13.64945	13.61831
SODIUM	589.592	Radial	4122.147	3.231418	3.250655	3.223483	3.220115
STRONTIUM	421.552	Radial	9628.654	0.2220072	0.2227293	0.2214021	0.2218902
SULFUR	182.034	Axial	30.65440	0.4488477	0.4191919	0.4690056	0.4583457
TIN	189.989	Axial	3.600545	0.01322649	0.01423593	0.01179307	0.01365046
TITANIUM	334.941	Radial	129284.0	30.09596	30.21367	29.98608	30.08814
VANADIUM	292.402	Radial	233.7237	0.3234620	0.3273441	0.3179374	0.3251047
CERIUM	535.353	Radial	450.5722	0.3519069	0.3520517	0.3295980	0.3740710
LANTHANUM	333.749	Radial	136.9316	0.1725093	0.1767026	0.1713138	0.1695114

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1834761-01 Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 20:52 Sequence: 223

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10943.30	10901.80	10954.08	10974.03
YTTRIUM	360.073	Axial	320309.3	320531.4	315329.7	325066.9
YTTRIUM	360.073	Radial	12552.68	12569.50	12581.86	12506.67
INDIUM	230.606	Axial	3167.314	3153.703	3177.958	3170.281

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	1508.554	15.30221	76.12462	76.44526	76.96324
ARSENIC	189.042	Axial	-0.9980156	-0.003361406	0.01222786	0.005276050	-0.06792498
BARIUM	233.527	Axial	762.7184	0.1848626	0.9208862	0.9233863	0.9286672
BORON	249.678	Radial	1.374438	-0.008403278	-0.04812907	-0.03869817	-0.03922193
CADMIUM	228.802	Axial	6.076933	0.0007260434	0.003593362	0.003201920	0.004095369
CHROMIUM	267.716	Axial	25.16001	0.002183394	0.009352200	0.01299108	0.01040762
COBALT	228.616	Axial	91.03349	0.02429348	0.1195021	0.1209436	0.1239564
COPPER	324.754	Axial	329.8852	0.004829286	0.02531450	0.02490655	0.02221823
IRON	271.441	Radial	2551.649	96.06414	480.2964	478.1143	482.5514
LEAD	220.353	Axial	1.322577	0.004410100	0.02345632	0.01816991	0.02452527
LITHIUM	670.784	Radial	88.19969	0.01299438	0.06970836	0.06238049	0.06282680
MANGANESE	257.610	Axial	119965.4	1.745036	8.735260	8.746170	8.694115
SELENIUM	196.090	Axial	-0.02514448	-0.005481976	0.02219564	-0.05961008	-0.04481520
SILVER	328.068	Axial	99.96019	-0.0003919434	0.0004924735	-0.0003232953	-0.006048330
THALLIUM	190.856	Axial	-0.6143180	-0.01266454	-0.06073447	-0.05002619	-0.07920746
ZINC	206.200	Axial	248.5534	0.1347070	0.6707907	0.6688479	0.6809661
ANTIMONY	206.833	Axial	1.480137	0.004554550	0.02113910	0.02266636	0.02451280
BERYLLIUM	313.042	Radial	25.04245	0.001098755	0.005767634	0.005199543	0.005514143
CALCIUM	317.933	Radial	10370.06	13.84801	68.99919	69.26307	69.45788
MAGNESIUM	279.079	Radial	449.6372	8.494806	42.16826	42.42294	42.83089
MOLYBDENUM	202.030	Axial	1.080549	0.0002834632	0.001827404	0.0004553593	0.001969185
NICKEL	231.604	Axial	-7.19415	-0.001080429	-0.007114577	-0.006823234	-0.002268631
PHOSPHORUS	177.495	Axial	304.0384	2.931962	14.60407	14.59651	14.77883
POTASSIUM	766.490	Radial	582.9675	1.924292	9.620383	9.796176	9.447824
SILICON	251.611	Axial	11212.63	2.815932	14.09254	14.12875	14.01768
SODIUM	589.592	Radial	840.7345	0.6595932	3.267215	3.332894	3.293790
STRONTIUM	421.552	Radial	1878.268	0.04522976	0.2247482	0.2257919	0.2279064
SULFUR	182.034	Axial	7.571459	0.09037574	0.5328976	0.4117431	0.4109954
TIN	189.989	Axial	0.6885612	0.001853166	0.008646965	0.02165892	-0.002508394
TITANIUM	334.941	Radial	25519.72	6.248688	31.08266	31.26155	31.38612
VANADIUM	292.402	Radial	44.01122	0.06484490	0.3273646	0.3166487	0.3286603
CERIUM	535.353	Radial	367.6816	0.09772942	0.7901712	0.5173057	0.1584645
LANTHANUM	333.749	Radial	28.61178	0.03499548	0.1526280	0.1877954	0.1845087

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1834761-01 Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 20:54 Sequence: 224

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10841.83	10797.85	10882.65	10844.98
YTTRIUM	360.073	Axial	317610.4	314412.8	318549.1	319869.4
YTTRIUM	360.073	Radial	12966.14	12993.38	12999.96	12905.08
INDIUM	230.606	Axial	2856.270	2844.748	2865.269	2858.795

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8560.155	84.58662	84.51260	84.70562	84.54164
ARSENIC	189.042	Axial	98.38784	0.9435548	0.9414567	0.9323849	0.9568228
BARIUM	233.527	Axial	7518.540	1.838690	1.846255	1.833819	1.835995
BORON	249.678	Radial	295.4143	0.9141834	0.9166270	0.9053226	0.9206005
CADMIUM	228.802	Axial	6063.439	0.9509225	0.9571193	0.9473770	0.9482711
CHROMIUM	267.716	Axial	9514.976	0.9991664	1.003672	0.9911103	1.002717
COBALT	228.616	Axial	3880.548	1.095451	1.098496	1.093163	1.094695
COPPER	324.754	Axial	26642.56	1.054123	1.054764	1.056129	1.051477
IRON	271.441	Radial	12617.13	459.7613	458.4909	458.6948	462.0983
LEAD	220.353	Axial	544.3611	0.9840697	0.9881177	0.9831887	0.9809026
LITHIUM	670.784	Radial	8787.966	1.093504	1.096379	1.093543	1.090590
MANGANESE	257.610	Axial	596252.8	8.755298	8.794185	8.741435	8.730274
SELENIUM	196.090	Axial	74.22711	0.8716169	0.8807364	0.8696590	0.8644554
SILVER	328.068	Axial	2407.912	0.1871486	0.1873941	0.1877516	0.1863002
THALLIUM	190.856	Axial	97.25018	0.8693839	0.8758815	0.8620660	0.8702042
ZINC	206.200	Axial	2734.701	1.541380	1.544166	1.542085	1.537890
ANTIMONY	206.833	Axial	201.0368	0.9551537	0.9625624	0.9483161	0.9545825
BERYLLIUM	313.042	Radial	31207.04	0.9607527	0.9589519	0.9615148	0.9617914
CALCIUM	373.690	Radial	36963.63	79.75682	79.50368	79.73612	80.03065
MAGNESIUM	279.079	Radial	2674.777	48.93693	48.80543	48.90120	49.10417
MOLYBDENUM	202.030	Axial	758.0311	0.9915883	0.9955960	0.9902037	0.9889651
NICKEL	231.604	Axial	1525.511	0.9715570	0.9757349	0.9709289	0.9680073
PHOSPHORUS	177.495	Axial	1518.867	14.80912	14.84929	14.76744	14.81061
POTASSIUM	766.490	Radial	6708.689	19.39539	19.43460	19.44265	19.30891
SILICON	251.611	Axial	57115.04	14.49504	14.52536	14.46935	14.49040
SODIUM	589.592	Radial	16552.42	13.34371	13.34061	13.35991	13.33060
STRONTIUM	421.552	Radial	51691.54	1.215320	1.215501	1.215827	1.214634
SULFUR	182.034	Axial	592.5415	9.303449	9.336786	9.310760	9.262800
TIN	189.989	Axial	244.0938	0.9655694	0.9650653	0.9643620	0.9672810
TITANIUM	334.941	Radial	129798.6	30.76556	30.77218	30.72368	30.80081
VANADIUM	292.402	Radial	895.7206	1.259336	1.255527	1.263125	1.259355
CERIUM	535.353	Radial	459.2462	0.4196772	0.3950956	0.4297222	0.4342138
LANTHANUM	333.749	Radial	135.3687	0.1736568	0.1732579	0.1772182	0.1704944

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1834761-01 Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 20:57 Sequence: 225

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10836.06	10813.42	10869.90	10824.87
YTTRIUM	360.073	Axial	317711.5	317925.6	316753.8	318455.0
YTTRIUM	360.073	Radial	13227.32	13190.58	13207.59	13283.79
INDIUM	230.606	Axial	2802.185	2789.205	2815.672	2801.678

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	14827.17	143.7030	143.2107	144.5409	143.3573
ARSENIC	189.042	Axial	90.73896	0.8711142	0.8620715	0.8740209	0.8772502
BARIUM	233.527	Axial	8659.637	2.118854	2.122380	2.112848	2.121335
BORON	249.678	Radial	280.4775	0.8499350	0.8554729	0.8531202	0.8412120
CADMIUM	228.802	Axial	5727.475	0.8986919	0.9013762	0.8957843	0.8989151
CHROMIUM	267.716	Axial	9277.582	0.9747349	0.9770053	0.9715662	0.9756331
COBALT	228.616	Axial	3759.340	1.081736	1.085329	1.078655	1.081224
COPPER	324.754	Axial	26046.79	1.030937	1.035421	1.020548	1.036844
IRON	271.441	Radial	15228.32	543.9485	543.3446	547.3711	541.1298
LEAD	220.353	Axial	512.3000	0.9440804	0.9449837	0.9392949	0.9479626
LITHIUM	670.784	Radial	8675.010	1.058197	1.052038	1.066795	1.055759
MANGANESE	257.610	Axial	698833.2	10.26698	10.22181	10.26103	10.31809
SELENIUM	196.090	Axial	69.26134	0.8133673	0.8053880	0.8193551	0.8153588
SILVER	328.068	Axial	2308.699	0.1791927	0.1798870	0.1773870	0.1803040
THALLIUM	190.856	Axial	89.06973	0.7953726	0.8046235	0.7954377	0.7860568
ZINC	206.200	Axial	2781.539	1.568698	1.575301	1.564150	1.566644
ANTIMONY	206.833	Axial	159.4414	0.7574360	0.7736344	0.7461579	0.7525156
BERYLLIUM	313.042	Radial	29698.71	0.8962879	0.8953391	0.9010323	0.8924923
CALCIUM	373.690	Radial	39066.53	82.63178	82.57971	83.04866	82.26697
MAGNESIUM	279.079	Radial	3158.728	56.65018	56.42361	56.96148	56.56544
MOLYBDENUM	202.030	Axial	692.1933	0.9058388	0.9051508	0.9088618	0.9035037
NICKEL	231.604	Axial	1451.808	0.9425620	0.9461525	0.9371781	0.9443554
PHOSPHORUS	177.495	Axial	1345.032	13.12050	13.18044	13.05464	13.12643
POTASSIUM	766.490	Radial	7424.619	21.02465	21.00918	21.12952	20.93525
SILICON	251.611	Axial	59764.35	15.17578	15.24649	15.04716	15.23368
SODIUM	589.592	Radial	17457.59	13.79713	13.77430	13.89149	13.72560
STRONTIUM	421.552	Radial	53684.88	1.237278	1.235091	1.242917	1.233826
SULFUR	182.034	Axial	570.7909	8.965676	8.969069	8.959801	8.968157
TIN	189.989	Axial	227.3274	0.8996706	0.9016889	0.8967725	0.9005506
TITANIUM	334.941	Radial	144314.7	33.53085	33.45642	33.71499	33.42113
VANADIUM	292.402	Radial	1010.524	1.392596	1.393385	1.396319	1.388084
CERIUM	535.353	Radial	451.3743	0.3516914	0.3870164	0.3223059	0.3457518
LANTHANUM	333.749	Radial	142.0355	0.1787283	0.1782761	0.1803767	0.1775320

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1834761-01 Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 21:00 Sequence: 226

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10824.89	10811.34	10822.42	10840.90
YTTRIUM	360.073	Axial	314887.1	312025.2	316098.8	316537.3
YTTRIUM	360.073	Radial	13043.15	13172.29	12959.73	12997.42
INDIUM	230.606	Axial	2825.507	2819.059	2830.351	2827.112

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	13682.65	134.4785	133.8242	134.9375	134.6737
ARSENIC	189.042	Axial	88.87315	0.8542111	0.8627088	0.8458323	0.8540923
BARIUM	233.527	Axial	8506.842	2.083611	2.087574	2.080230	2.083028
BORON	249.678	Radial	272.8418	0.8383244	0.8275720	0.8358498	0.8515515
CADMIUM	228.802	Axial	5609.590	0.8810951	0.8821490	0.8806324	0.8805038
CHROMIUM	267.716	Axial	9021.656	0.9488137	0.9534008	0.9507725	0.9422680
COBALT	228.616	Axial	3661.732	1.044985	1.048096	1.043023	1.043837
COPPER	324.754	Axial	25414.79	1.006757	1.006999	1.009783	1.003489
IRON	271.441	Radial	14612.83	529.3494	525.4875	531.9654	530.5953
LEAD	220.353	Axial	500.5923	0.9149540	0.9171857	0.9138839	0.9137923
LITHIUM	670.784	Radial	8550.020	1.057681	1.056589	1.057130	1.059324
MANGANESE	257.610	Axial	631253.8	9.283684	9.274462	9.289618	9.286972
SELENIUM	196.090	Axial	66.00493	0.7757018	0.7812218	0.7752744	0.7706093
SILVER	328.068	Axial	2287.062	0.1776224	0.1765878	0.1774874	0.1787920
THALLIUM	190.856	Axial	87.79980	0.7909731	0.7808425	0.7928312	0.7992457
ZINC	206.200	Axial	2729.282	1.540732	1.542021	1.546036	1.534139
ANTIMONY	206.833	Axial	156.7873	0.7455395	0.7515975	0.7397793	0.7452416
BERYLLIUM	313.042	Radial	29076.47	0.8899023	0.8884685	0.8904251	0.8908131
CALCIUM	373.690	Radial	39296.51	84.29484	83.77144	84.52806	84.58500
MAGNESIUM	279.079	Radial	3169.006	57.63946	57.14209	57.85899	57.91729
MOLYBDENUM	202.030	Axial	669.3553	0.8768257	0.8771041	0.8781287	0.8752444
NICKEL	231.604	Axial	1408.176	0.9067943	0.9097328	0.9033408	0.9073093
PHOSPHORUS	177.495	Axial	1401.319	13.68385	13.67800	13.73243	13.64111
POTASSIUM	766.490	Radial	7157.778	20.56011	20.44706	20.59374	20.63952
SILICON	251.611	Axial	57811.92	14.69489	14.72986	14.73302	14.62178
SODIUM	589.592	Radial	16999.96	13.62469	13.59043	13.64687	13.63676
STRONTIUM	421.552	Radial	51849.00	1.211837	1.209699	1.213235	1.212575
SULFUR	182.034	Axial	540.8858	8.503291	8.505657	8.525010	8.479208
TIN	189.989	Axial	220.6373	0.8740666	0.8718929	0.8777732	0.8725338
TITANIUM	334.941	Radial	155769.9	36.70365	36.61812	36.77897	36.71386
VANADIUM	292.402	Radial	975.7993	1.363762	1.360023	1.367335	1.363928
CERIUM	535.353	Radial	458.8582	0.4073444	0.3536614	0.4098637	0.4585081
LANTHANUM	333.749	Radial	141.8596	0.1810754	0.1804947	0.1804429	0.1822886

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/13/25 21:12 Sequence: 230 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10517.31	10547.81	10501.99	10502.13
YTTRIUM	360.073	Axial	303514.1	303521.7	302557.7	304462.8
YTTRIUM	360.073	Radial	12247.62	12255.24	12262.62	12225.00
INDIUM	230.606	Axial	2975.642	2992.018	2967.144	2967.762

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	950.6129	9.841323	9.832073	9.848158	9.843738
ANTIMONY	206.833	Axial	102.2140	0.4994595	0.4938450	0.5009332	0.5036002
ARSENIC	189.042	Axial	101.1063	0.9991884	0.9893162	1.008720	0.9995288
BARIUM	233.527	Axial	2064.807	0.5205925	0.5178322	0.5229816	0.5209636
BERYLLIUM	313.042	Radial	6245.564	0.2037964	0.2031317	0.2046154	0.2036422
BORON	249.678	Radial	300.1527	0.9842892	0.9836367	0.9894515	0.9797794
CADMIUM	228.802	Axial	3080.344	0.4978839	0.4965859	0.4985769	0.4984889
CALCIUM	373.690	Radial	22890.21	52.26935	52.19859	52.26205	52.34741
CHROMIUM	267.716	Axial	9660.481	1.045748	1.047738	1.044720	1.044786
COBALT	228.616	Axial	3650.757	0.9893582	0.9845130	0.9938117	0.9897500
COPPER	324.754	Axial	24956.25	1.017589	1.018116	1.016313	1.018337
IRON	259.940	Radial	5143.941	10.01611	9.974055	10.04384	10.03043
LEAD	220.353	Axial	281.8157	0.4901539	0.4879372	0.4910975	0.4914270
LITHIUM	670.784	Radial	7908.640	1.041906	1.034196	1.047870	1.043653
MAGNESIUM	279.079	Radial	490.0605	9.489375	9.512605	9.444360	9.511159
MANGANESE	257.610	Axial	68928.09	1.043161	1.039982	1.044994	1.044507
MOLYBDENUM	202.030	Axial	191.5595	0.2574869	0.2552904	0.2578594	0.2593108
NICKEL	231.604	Axial	1617.681	0.9888895	0.9803360	0.9936304	0.9927020
PHOSPHORUS	177.495	Axial	97.88368	0.9781085	0.9773441	0.9742427	0.9827388
POTASSIUM	766.490	Radial	16856.68	51.25917	51.04313	51.41191	51.32248
SELENIUM	196.090	Axial	82.11814	0.9947428	0.9959887	1.004114	0.9841252
SILICON	251.611	Axial	7921.724	2.068971	2.052087	2.065102	2.089723
SILVER	328.068	Axial	6304.878	0.5194879	0.5192908	0.5196781	0.5194946
SODIUM	818.326	Radial	3529.997	52.72759	52.43957	53.01981	52.72339
STRONTIUM	421.552	Radial	41214.69	1.025786	1.021662	1.028337	1.027357
SULFUR	182.034	Axial	290.9525	4.695454	4.683691	4.697010	4.705661
THALLIUM	190.856	Axial	109.0361	1.021244	1.017764	1.027729	1.018238
TIN	189.989	Axial	126.9760	0.5173880	0.5166303	0.5202172	0.5153166
TITANIUM	334.941	Radial	4044.954	1.015731	1.010732	1.017294	1.019166
VANADIUM	292.402	Radial	668.8234	0.9957061	0.9858379	0.9983592	1.002921
ZINC	206.200	Axial	1767.654	1.025561	1.022800	1.026089	1.027795
CERIUM	535.353	Radial	333.9993	-0.008232967	-0.006069299	-0.04474865	0.02611905
HOT WATER SOL. BORON	249.678	Radial	300.1527	0.9842892	0.9836367	0.9894515	0.9797794
LANTHANUM	333.749	Radial	4.703876	0.002784589	0.009358751	0.0008801357	-0.001885119

Sample ID: CCB Units: mg/l
Analyzed: 03/13/25 21:15 Sequence: 231

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10990.76	10990.26	10940.61	11041.40
YTTRIUM	360.073	Axial	321796.9	322010.0	323237.4	320143.4
YTTRIUM	360.073	Radial	12359.27	12326.85	12399.82	12351.14
INDIUM	230.606	Axial	3316.817	3307.096	3301.025	3342.328

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	11.35647	0.0009961894	0.03766606	-0.009753773	-0.02492372
ANTIMONY	206.833	Axial	0.4553260	-0.0002955331	0.0005851310	-0.002540222	0.001068492
ARSENIC	189.042	Axial	-0.4926917	0.001420898	0.004989212	0.001996490	-0.002723008
BARIUM	233.527	Axial	2.417691	0.0006601656	0.0002620538	0.0006832749	0.001035168
BERYLLIUM	313.042	Radial	-10.6067	-0.00003997105	-0.0001151802	0.00001632925	-0.00002106220
BORON	249.678	Radial	3.660374	-0.0007961862	0.001982110	-0.008903355	0.004532685
CADMIUM	228.802	Axial	5.618713	0.0006496501	0.0002723096	0.0003567951	0.001319846
CALCIUM	317.933	Radial	76.11849	-0.005287046	-0.008338829	-0.003041862	-0.004480448
CERIUM	535.353	Radial	335.8657	-0.01325535	-0.01014198	-0.02702384	-0.002600232
CHROMIUM	267.716	Axial	10.25926	0.0006288158	0.001381675	0.0003980257	0.0001067469
COBALT	228.616	Axial	-0.3486359	0.001055491	0.0002694295	0.0008067761	0.002090267
COPPER	324.754	Axial	220.0956	0.0004537221	0.0004508042	0.0003460425	0.0005643196
HOT WATER SOL. BORON	249.678	Radial	3.660374	-0.0007961862	0.001982110	-0.008903355	0.004532685
IRON	259.940	Radial	42.21436	0.001669898	0.002210627	0.001278952	0.001520116
LANTHANUM	333.749	Radial	3.188150	0.0006422004	-0.0005817093	0.002300276	0.0002080340
LEAD	220.353	Axial	-1.44610	0.00001496949	0.00009312926	0.0007066214	-0.0007548422
LITHIUM	670.784	Radial	-2.29566	0.001374991	0.001408184	0.002650132	0.00006665572
MAGNESIUM	279.079	Radial	0.4347951	0.005134184	0.02083535	0.02065815	-0.02609095
MANGANESE	257.610	Axial	39.67349	0.0003524304	0.0003006913	0.0003674538	0.0003891461
MOLYBDENUM	202.030	Axial	1.211673	0.0004481153	0.0002778392	0.0009855337	0.00008097309
NICKEL	231.604	Axial	-3.47108	0.001136200	0.00007511493	0.0008661674	0.002467318
PHOSPHORUS	177.495	Axial	0.4935052	-0.001380868	-0.006104353	-0.003420978	0.005382728
POTASSIUM	766.490	Radial	-63.7800	0.01009311	0.01641225	-0.006764796	0.02063187
SELENIUM	196.090	Axial	0.5031961	0.0006641921	-0.003143110	0.004677956	0.0004577306
SILICON	251.611	Axial	28.26688	0.002988980	0.002054987	0.003101494	0.003810460
SILVER	328.068	Axial	106.2004	0.00007075398	0.0002599870	-0.0004493185	0.0004015934
SODIUM	589.592	Radial	60.07224	0.008241999	0.01145791	0.008667973	0.004600116
STRONTIUM	421.552	Radial	8.742717	-0.0001848888	-0.0002095796	-0.00008558211	-0.0002595048
SULFUR	182.034	Axial	1.776791	-0.0001867876	-0.01070370	0.003411012	0.006732322
THALLIUM	190.856	Axial	1.347461	0.004785519	0.007807693	0.002431703	0.004117162
TIN	189.989	Axial	-0.1764452	-0.001543351	-0.001542911	-0.003274328	0.0001871853
TITANIUM	334.941	Radial	0.4724521	0.0008693141	0.001416709	0.001597262	-0.0004060284
VANADIUM	292.402	Radial	-1.40680	-0.001099507	-0.003721152	-0.0001183190	0.0005409489
ZINC	206.200	Axial	5.743700	-0.001289685	-0.002320777	-0.001507331	-0.00004094794

Sample ID: L1834645-01 DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 21:33 Sequence: 237

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10362.71	10360.66	10373.94	10353.53
YTTRIUM	360.073	Axial	300435.0	300206.3	300489.2	300609.5
YTTRIUM	360.073	Radial	12400.98	12523.62	12361.05	12318.27
INDIUM	230.606	Axial	2749.076	2754.902	2748.328	2743.998

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.531743	0.02131320	0.01463575	0.02619235	0.02311148
BARIUM	233.527	Axial	2516.960	0.6440368	0.6421364	0.6441223	0.6458516
BORON	249.678	Radial	13.95012	0.03289216	0.03698533	0.03066118	0.03102995
CADMIUM	228.802	Axial	19.62472	0.003002269	0.003192779	0.003168068	0.002645960
CHROMIUM	267.716	Axial	928.6173	0.1016308	0.1003430	0.1016560	0.1028932
COBALT	228.616	Axial	107.5044	0.03264280	0.03205087	0.03244284	0.03343469
LEAD	220.353	Axial	105.0095	0.1990367	0.1997300	0.1978091	0.1995711
LITHIUM	670.784	Radial	312.8956	0.04231977	0.04282619	0.04213920	0.04199390
SELENIUM	196.090	Axial	0.9026022	0.005949666	0.02113102	0.0001028614	-0.003384882
SILVER	328.068	Axial	106.7348	0.0006332867	0.001019722	0.0003527071	0.0005274307
ALUMINUM	308.215	Radial	6329.279	65.36573	65.46347	65.32728	65.30646
ANTIMONY	206.833	Axial	1.790926	0.006496837	0.002746051	0.005596204	0.01114825
BERYLLIUM	313.042	Radial	109.3154	0.003820481	0.003777576	0.003875623	0.003808245
CALCIUM	373.690	Radial	192113.1	433.6512	432.8857	434.6615	433.4065
CERIUM	535.353	Radial	384.6603	0.1885220	0.1989023	0.1714740	0.1951896
COPPER	324.754	Axial	2408.741	0.09228207	0.09261156	0.09227936	0.09195529
IRON	271.441	Radial	2311.799	88.10040	88.04191	88.34768	87.91160
LANTHANUM	333.749	Radial	61.43184	0.08044270	0.07935684	0.08182135	0.08014992
MAGNESIUM	279.079	Radial	1494.986	28.59772	28.41172	28.69711	28.68432
MANGANESE	257.610	Axial	175946.6	2.702852	2.702347	2.702181	2.704028
MOLYBDENUM	202.030	Axial	5.223586	0.006038575	0.006382423	0.005681844	0.006051459
NICKEL	231.604	Axial	164.9709	0.1118623	0.1094738	0.1114141	0.1146989
PHOSPHORUS	177.495	Axial	408.2434	4.160021	4.178761	4.158116	4.143187
POTASSIUM	766.490	Radial	2989.250	9.143551	9.186315	9.120556	9.123781
SILICON	251.611	Axial	55456.42	14.72480	14.75996	14.71050	14.70394
SODIUM	589.592	Radial	1366.082	1.112434	1.109877	1.109305	1.118119
STRONTIUM	421.552	Radial	24526.93	0.6027193	0.6047615	0.6041775	0.5992190
SULFUR	182.034	Axial	293.2492	4.803745	4.795458	4.802309	4.813468
THALLIUM	190.856	Axial	-1.31114	-0.01969655	-0.02158285	-0.009532050	-0.02797473
TIN	189.989	Axial	2.719074	0.01041330	0.01134785	0.01140704	0.008485004
TITANIUM	334.941	Radial	2184.124	0.5420362	0.5395951	0.5432085	0.5433051
VANADIUM	292.402	Radial	96.19724	0.1422806	0.1416119	0.1443571	0.1408728
ZINC	206.200	Axial	953.4085	0.5593697	0.5586325	0.5579308	0.5615457

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834645-02 DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 21:36 Sequence: 238

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10178.72	10164.22	10212.55	10159.39
YTTRIUM	360.073	Axial	292848.9	293128.3	293366.3	292052.2
YTTRIUM	360.073	Radial	12189.12	12239.64	12152.17	12175.57
INDIUM	230.606	Axial	2650.895	2643.666	2663.318	2645.701

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	8.948998	0.09688097	0.09719926	0.09133214	0.1021115
BARIUM	233.527	Axial	25369.61	6.608183	6.624609	6.595817	6.604123
BORON	249.678	Radial	7.239080	0.01132896	0.0002821229	0.01755414	0.01615064
CADMIUM	228.802	Axial	24.81703	0.003928064	0.003761037	0.004010002	0.004013152
CHROMIUM	267.716	Axial	1645.415	0.1836841	0.1845498	0.1831859	0.1833166
COBALT	228.616	Axial	4653.830	1.415192	1.421305	1.411110	1.413161
LEAD	220.353	Axial	304.5617	0.5941218	0.5969127	0.5933057	0.5921469
LITHIUM	670.784	Radial	2052.863	0.2729856	0.2725313	0.2703036	0.2761217
SELENIUM	196.090	Axial	2.965614	0.03208221	0.02583802	0.04735721	0.02305140
SILVER	328.068	Axial	156.2529	0.005080769	0.004217111	0.005495785	0.005529411
ALUMINUM	308.215	Radial	13751.25	144.6271	144.4023	143.8679	145.6111
ANTIMONY	206.833	Axial	5.725883	0.02662097	0.02822575	0.02616819	0.02546896
BERYLLIUM	313.042	Radial	344.2995	0.01157440	0.01158331	0.01146895	0.01167095
CALCIUM	373.690	Radial	236550.8	543.2533	541.0018	543.6197	545.1384
CERIUM	535.353	Radial	814.1259	2.067362	1.987643	2.134322	2.080120
COPPER	324.754	Axial	2883.489	0.1142613	0.1139015	0.1143962	0.1144862
IRON	271.441	Radial	7044.240	273.0621	271.3959	273.5603	274.2303
LANTHANUM	333.749	Radial	168.5783	0.2312755	0.2275686	0.2306512	0.2356067
MAGNESIUM	279.079	Radial	1339.340	26.06473	25.96312	26.08945	26.14162
MANGANESE	257.610	Axial	3335341	52.16728	52.16740	51.98392	52.35052
MOLYBDENUM	202.030	Axial	20.36001	0.02728147	0.02649786	0.02733023	0.02801633
NICKEL	231.604	Axial	1812.185	1.242697	1.246761	1.238895	1.242434
PHOSPHORUS	177.495	Axial	237.9510	2.466076	2.459824	2.467175	2.471228
POTASSIUM	766.490	Radial	4349.510	13.43913	13.40916	13.43089	13.47734
SILICON	251.611	Axial	83106.11	22.46741	22.48250	22.44282	22.47690
SODIUM	589.592	Radial	869.3150	0.7051446	0.6977538	0.7049772	0.7127028
STRONTIUM	421.552	Radial	53950.35	1.349327	1.350119	1.344690	1.353172
SULFUR	182.034	Axial	171.3303	2.846008	2.817205	2.873133	2.847687
THALLIUM	190.856	Axial	-2.14074	-0.02814226	-0.03715404	-0.01291382	-0.03435893
TIN	189.989	Axial	4.350710	0.01749616	0.01649577	0.01897525	0.01701747
TITANIUM	334.941	Radial	3870.544	0.9766201	0.9784603	0.9733653	0.9780347
VANADIUM	292.402	Radial	227.9224	0.3415888	0.3406550	0.3419528	0.3421585
ZINC	206.200	Axial	2934.139	1.762171	1.770853	1.758700	1.756960

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834645-03 DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 21:39 Sequence: 239

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10615.11	10602.63	10565.27	10677.41
YTTRIUM	360.073	Axial	304313.6	303628.3	309109.0	300203.5
YTTRIUM	360.073	Radial	12485.55	12475.05	12528.14	12453.47
INDIUM	230.606	Axial	2881.844	2881.499	2870.951	2893.082

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.7651216	0.01346695	0.01432506	0.006086156	0.01998964
BARIUM	233.527	Axial	2908.295	0.7264658	0.7231204	0.7284898	0.7277872
BORON	249.678	Radial	11.23728	0.02375599	0.02375440	0.02648071	0.02103285
CADMIUM	228.802	Axial	7.251299	0.0009433171	0.0004639729	0.001222457	0.001143521
CHROMIUM	267.716	Axial	1044.817	0.1116712	0.1115782	0.1116039	0.1118314
COBALT	228.616	Axial	109.8559	0.03184615	0.03088555	0.03160766	0.03304523
LEAD	220.353	Axial	38.19876	0.07053753	0.07163373	0.06844880	0.07153006
LITHIUM	670.784	Radial	490.7097	0.06498801	0.06476553	0.06573039	0.06446812
SELENIUM	196.090	Axial	-0.1768628	-0.007250244	-0.001145416	0.01400747	-0.03461278
SILVER	328.068	Axial	105.5870	0.0003195435	0.0001316276	-0.0003374570	0.001164460
ALUMINUM	308.215	Radial	8743.928	89.73561	89.67061	89.73625	89.79998
ANTIMONY	206.833	Axial	1.589024	0.005310918	0.004826910	0.008463083	0.002642762
BERYLLIUM	313.042	Radial	142.3004	0.004850745	0.004844431	0.004841064	0.004866741
CALCIUM	373.690	Radial	94752.48	212.4055	212.3948	211.9465	212.8753
CERIUM	535.353	Radial	405.6863	0.2660847	0.2401715	0.2126670	0.3454157
COPPER	324.754	Axial	1900.172	0.06918301	0.06864797	0.06998403	0.06891704
IRON	271.441	Radial	2587.813	97.94807	97.70381	97.97572	98.16468
LANTHANUM	333.749	Radial	105.6598	0.1400579	0.1406159	0.1412445	0.1383132
MAGNESIUM	279.079	Radial	807.7037	15.34421	15.40629	15.22383	15.40250
MANGANESE	257.610	Axial	140769.4	2.111040	2.111627	2.121699	2.099795
MOLYBDENUM	202.030	Axial	2.377428	0.002056827	0.002091070	0.0007408834	0.003338529
NICKEL	231.604	Axial	126.1219	0.08239981	0.08076096	0.08316861	0.08326986
PHOSPHORUS	177.495	Axial	226.6485	2.251878	2.267044	2.250705	2.237884
POTASSIUM	766.490	Radial	3721.377	11.25841	11.21769	11.30952	11.24802
SILICON	251.611	Axial	71436.63	18.51847	18.50902	18.67847	18.36790
SODIUM	589.592	Radial	612.8877	0.4720342	0.4778221	0.4597411	0.4785395
STRONTIUM	421.552	Radial	21068.63	0.5141799	0.5132543	0.5149716	0.5143140
SULFUR	182.034	Axial	108.1384	1.711575	1.729040	1.714120	1.691566
THALLIUM	190.856	Axial	-0.9328859	-0.01594518	-0.02199771	-0.01712457	-0.008713271
TIN	189.989	Axial	2.664735	0.009925839	0.01035204	0.009417135	0.01000834
TITANIUM	334.941	Radial	2699.144	0.6651340	0.6649698	0.6610066	0.6694256
VANADIUM	292.402	Radial	116.1231	0.1703951	0.1698108	0.1692985	0.1720760
ZINC	206.200	Axial	410.8148	0.2326931	0.2332841	0.2319288	0.2328662

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834645-04 DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 21:42 Sequence: 240

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10077.93	10075.20	10075.34	10083.25
YTTRIUM	360.073	Axial	285643.7	284294.1	287565.5	285071.5
YTTRIUM	360.073	Radial	12273.67	12227.88	12316.16	12276.99
INDIUM	230.606	Axial	2545.714	2546.226	2542.515	2548.403

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	2.109887	0.02767192	0.02682387	0.02497082	0.03122108
BARIUM	233.527	Axial	2879.842	0.7576995	0.7587236	0.7576233	0.7567517
BORON	249.678	Radial	16.18984	0.04081413	0.04387250	0.04250421	0.03606567
CADMIUM	228.802	Axial	15.19394	0.002345761	0.002243106	0.002580868	0.002213308
CHROMIUM	267.716	Axial	1068.823	0.1203602	0.1197778	0.1211002	0.1202027
COBALT	228.616	Axial	123.0607	0.04008002	0.04036480	0.03988308	0.03999218
LEAD	220.353	Axial	55.89531	0.1153691	0.1175084	0.1155950	0.1130041
LITHIUM	670.784	Radial	510.8450	0.06872895	0.07020339	0.06698250	0.06900095
SELENIUM	196.090	Axial	1.605318	0.01519512	0.01072427	0.02195285	0.01290823
SILVER	328.068	Axial	108.9036	0.001079097	0.001347931	0.001101953	0.0007874074
ALUMINUM	308.215	Radial	10652.90	111.2418	111.1912	111.3007	111.2336
ANTIMONY	206.833	Axial	2.354607	0.009636891	0.01181709	0.01089790	0.006195684
BERYLLIUM	313.042	Radial	148.1066	0.005118008	0.005117501	0.005120713	0.005115811
CALCIUM	373.690	Radial	382377.1	872.1369	874.0423	866.6217	875.7467
CERIUM	535.353	Radial	426.3510	0.3838452	0.3776532	0.3693497	0.4045328
COPPER	324.754	Axial	1988.580	0.07709850	0.07665027	0.07734076	0.07730447
IRON	271.441	Radial	2641.051	101.6879	101.7021	101.4444	101.9173
LANTHANUM	333.749	Radial	95.07374	0.1278867	0.1267427	0.1267254	0.1301920
MAGNESIUM	279.079	Radial	2979.569	57.58971	57.88055	57.29957	57.58901
MANGANESE	257.610	Axial	206473.9	3.261480	3.266242	3.255062	3.263135
MOLYBDENUM	202.030	Axial	3.608775	0.003965491	0.001989426	0.005366305	0.004540741
NICKEL	231.604	Axial	125.4840	0.09242420	0.09315695	0.09195778	0.09215785
PHOSPHORUS	177.495	Axial	369.7763	3.874099	3.854232	3.893778	3.874286
POTASSIUM	766.490	Radial	4274.405	13.12082	13.08287	13.13191	13.14770
SILICON	251.611	Axial	79471.93	21.69960	21.62007	21.71016	21.76857
SODIUM	589.592	Radial	1294.993	1.063692	1.076364	1.052021	1.062689
STRONTIUM	421.552	Radial	50837.89	1.262707	1.263427	1.258926	1.265767
SULFUR	182.034	Axial	254.5880	4.285303	4.289797	4.307293	4.258820
THALLIUM	190.856	Axial	0.09013513	-0.006277607	0.003223152	-0.01104768	-0.01100829
TIN	189.989	Axial	2.271912	0.008827970	0.01045491	0.007692984	0.008336018
TITANIUM	334.941	Radial	2994.456	0.7505434	0.7524614	0.7479448	0.7512240
VANADIUM	292.402	Radial	128.6937	0.1919788	0.1939248	0.1893340	0.1926775
ZINC	206.200	Axial	651.9289	0.3919645	0.3919790	0.3915940	0.3923203

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834645-05 DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 21:45 Sequence: 241

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9992.013	9987.855	10011.79	9976.394
YTTRIUM	360.073	Axial	286009.6	284119.4	286181.5	287728.0
YTTRIUM	360.073	Radial	12206.63	12279.01	12249.50	12091.38
INDIUM	230.606	Axial	2527.591	2522.521	2535.944	2524.310

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.274861	0.01923432	0.02034352	0.01138052	0.02597893
BARIUM	233.527	Axial	3419.833	0.9074984	0.9077215	0.9043268	0.9104468
BORON	249.678	Radial	18.24359	0.04795874	0.04809636	0.04632783	0.04945202
CADMIUM	228.802	Axial	14.31427	0.002217805	0.002155905	0.002445568	0.002051942
CHROMIUM	267.716	Axial	1123.794	0.1276638	0.1271146	0.1288035	0.1270733
COBALT	228.616	Axial	139.0867	0.04546625	0.04546851	0.04543607	0.04549417
LEAD	220.353	Axial	41.64887	0.08714107	0.08713441	0.08863654	0.08565225
LITHIUM	670.784	Radial	593.5557	0.08001351	0.07983355	0.07916717	0.08103982
SELENIUM	196.090	Axial	0.5337089	0.001635162	0.02195330	-0.005087902	-0.01195991
SILVER	328.068	Axial	107.5383	0.001040942	0.0008485553	0.0007432821	0.001530989
ALUMINUM	308.215	Radial	8667.423	90.98900	91.01500	89.93504	92.01698
ANTIMONY	206.833	Axial	2.415424	0.01005207	0.007765710	0.01246270	0.009927802
BERYLLIUM	313.042	Radial	139.5663	0.004865007	0.004779537	0.005026284	0.004789199
CALCIUM	373.690	Radial	437020.3	1002.300	995.2783	997.0511	1014.572
CERIUM	535.353	Radial	398.3578	0.2733558	0.2849656	0.2755830	0.2595187
COPPER	324.754	Axial	1850.080	0.07183965	0.07167253	0.07208068	0.07176575
IRON	271.441	Radial	2490.225	96.41389	95.79262	95.89065	97.55841
LANTHANUM	333.749	Radial	76.07872	0.1021496	0.1060347	0.1017585	0.09865559
MAGNESIUM	279.079	Radial	2856.257	55.51226	55.11174	55.17618	56.24887
MANGANESE	257.610	Axial	190826.9	3.040228	3.034956	3.036436	3.049293
MOLYBDENUM	202.030	Axial	5.107794	0.006139003	0.005572575	0.006662188	0.006182247
NICKEL	231.604	Axial	166.4665	0.1224674	0.1214874	0.1223726	0.1235422
PHOSPHORUS	177.495	Axial	325.2367	3.436065	3.436981	3.441635	3.429578
POTASSIUM	766.490	Radial	4901.212	15.09743	15.04029	15.01375	15.23825
SILICON	251.611	Axial	80358.89	22.13053	22.08448	22.15834	22.14879
SODIUM	589.592	Radial	992.5015	0.8099356	0.8037261	0.8051045	0.8209762
STRONTIUM	421.552	Radial	66000.43	1.648479	1.650077	1.635840	1.659520
SULFUR	182.034	Axial	293.7779	4.992069	5.010335	4.948436	5.017434
THALLIUM	190.856	Axial	-1.12085	-0.01844558	-0.02187275	-0.02324997	-0.01021402
TIN	189.989	Axial	2.313549	0.009091040	0.008152355	0.008439893	0.01068087
TITANIUM	334.941	Radial	2234.887	0.5634299	0.5626903	0.5625874	0.5650119
VANADIUM	292.402	Radial	112.0361	0.1681700	0.1693189	0.1656421	0.1695490
ZINC	206.200	Axial	535.1973	0.3237766	0.3249178	0.3225047	0.3239075

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/13/25 21:48 Sequence: 242 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10542.47	10546.33	10535.80	10545.27
YTTRIUM	360.073	Axial	306867.1	307055.2	308044.8	305501.3
YTTRIUM	360.073	Radial	12135.29	12184.65	12141.73	12079.49
INDIUM	230.606	Axial	2990.768	2993.620	2987.060	2991.624

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	945.9795	9.884523	9.914173	9.831258	9.908137
ANTIMONY	206.833	Axial	102.1276	0.4978297	0.5008182	0.4956660	0.4970050
ARSENIC	189.042	Axial	100.8242	0.9940396	0.9930948	0.9916064	0.9974177
BARIUM	233.527	Axial	2066.452	0.5197602	0.5201092	0.5199806	0.5191906
BERYLLIUM	313.042	Radial	6227.485	0.2050843	0.2056535	0.2050683	0.2045311
BORON	249.678	Radial	296.5011	0.9812803	0.9870506	0.9719290	0.9848614
CADMIUM	228.802	Axial	3085.213	0.4974784	0.4995418	0.4961324	0.4967611
CALCIUM	373.690	Radial	22791.37	52.52570	52.46138	52.58796	52.52777
CHROMIUM	267.716	Axial	9740.939	1.051946	1.054222	1.049066	1.052550
COBALT	228.616	Axial	3663.048	0.9876557	0.9889525	0.9863797	0.9876349
COPPER	324.754	Axial	25239.17	1.026743	1.026722	1.026409	1.027099
IRON	259.940	Radial	5109.160	10.04063	10.05132	10.03874	10.03184
LEAD	220.353	Axial	282.9446	0.4896263	0.4876954	0.4919583	0.4892251
LITHIUM	670.784	Radial	7909.350	1.051617	1.055565	1.052167	1.047119
MAGNESIUM	279.079	Radial	491.3499	9.602381	9.610604	9.614946	9.581593
MANGANESE	257.610	Axial	69232.82	1.045268	1.047071	1.043602	1.045131
MOLYBDENUM	202.030	Axial	192.9223	0.2587015	0.2602629	0.2574212	0.2584206
NICKEL	231.604	Axial	1612.161	0.9805327	0.9814154	0.9804502	0.9797326
PHOSPHORUS	177.495	Axial	98.23066	0.9792398	0.9753014	0.9791482	0.9832698
POTASSIUM	766.490	Radial	16880.65	51.80446	51.95397	51.91053	51.54886
SELENIUM	196.090	Axial	82.73142	0.9998089	0.9999525	1.000700	0.9987746
SILICON	251.611	Axial	8068.236	2.102248	2.084162	2.098395	2.124188
SILVER	328.068	Axial	6390.349	0.5253674	0.5247651	0.5246824	0.5266548
SODIUM	818.326	Radial	3514.527	52.97429	52.93651	52.97005	53.01631
STRONTIUM	421.552	Radial	40739.10	1.023325	1.027806	1.020459	1.021711
SULFUR	182.034	Axial	291.5112	4.693214	4.711326	4.687656	4.680659
THALLIUM	190.856	Axial	108.9584	1.009264	1.008208	1.012679	1.006904
TIN	189.989	Axial	127.5780	0.5186007	0.5218873	0.5162760	0.5176389
TITANIUM	334.941	Radial	3998.436	1.013332	1.019421	1.009469	1.011105
VANADIUM	292.402	Radial	660.9174	0.9930467	0.9902730	0.9946676	0.9941997
ZINC	206.200	Axial	1761.321	1.019418	1.022477	1.017907	1.017869
CERIUM	535.353	Radial	342.9700	0.04382486	0.04150074	0.03833985	0.05163400
HOT WATER SOL. BORON	249.678	Radial	296.5011	0.9812803	0.9870506	0.9719290	0.9848614
LANTHANUM	333.749	Radial	4.688955	0.002830013	0.003213885	0.0007512119	0.004524942

Sample ID: CCB Units: mg/l
Analyzed: 03/13/25 21:51 Sequence: 243

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10994.51	10980.75	11014.89	10987.90
YTTRIUM	360.073	Axial	321382.6	323856.5	319776.9	320514.5
YTTRIUM	360.073	Radial	12346.11	12293.13	12439.81	12305.38
INDIUM	230.606	Axial	3315.532	3309.248	3327.366	3309.983

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	11.77586	0.005420409	0.004373601	0.01130086	0.0005867684
ANTIMONY	206.833	Axial	0.1134579	-0.001893324	0.0009674426	-0.005037474	-0.001609940
ARSENIC	189.042	Axial	-0.6006760	0.0004020257	-0.002604129	-0.002213999	0.006024205
BARIUM	233.527	Axial	1.751649	0.0004999257	-0.0001281461	0.0003024496	0.001325474
BERYLLIUM	313.042	Radial	-10.0292	-0.00002171633	-0.0001311921	0.00001458257	0.00005146055
BORON	249.678	Radial	3.232669	-0.002191304	-0.003626805	-0.006196726	0.003249618
CADMIUM	228.802	Axial	5.379836	0.0006140418	0.0004271860	0.0003704713	0.001044468
CALCIUM	317.933	Radial	80.56252	0.0009022632	0.0008639649	0.003090186	-0.001247361
CERIUM	535.353	Radial	348.9058	0.04373045	0.02283016	0.03722446	0.07113672
CHROMIUM	267.716	Axial	4.185185	-0.000001282370	-0.000005511882	0.00003337001	-0.00003170524
COBALT	228.616	Axial	-1.38489	0.0008079525	0.0002072498	0.0005408114	0.001675796
COPPER	324.754	Axial	210.8436	0.00008714947	-0.0002604327	0.0001983201	0.0003235610
HOT WATER SOL. BORON	249.678	Radial	3.232669	-0.002191304	-0.003626805	-0.006196726	0.003249618
IRON	259.940	Radial	41.47478	0.0003181410	-0.0003306836	-0.0001887389	0.001473846
LANTHANUM	333.749	Radial	3.676268	0.001326943	0.003455189	0.00006634157	0.0004592994
LEAD	220.353	Axial	-1.33020	0.0001894815	-0.0007618604	0.001040436	0.0002898690
LITHIUM	670.784	Radial	-7.38744	0.0007171470	0.002176328	-0.0005843695	0.0005594822
MAGNESIUM	279.079	Radial	1.841005	0.03229976	0.07392785	0.001554938	0.02141649
MANGANESE	257.610	Axial	25.79772	0.0001513387	0.0001568506	0.0001598697	0.0001372957
MOLYBDENUM	202.030	Axial	0.6118387	-0.0003284244	-0.0005352633	-0.0003741969	-0.00007581307
NICKEL	231.604	Axial	-3.83546	0.0009412566	0.0004863624	0.0008064165	0.001530991
PHOSPHORUS	177.495	Axial	0.7781372	0.001365762	0.002868368	0.005516505	-0.004287587
POTASSIUM	766.490	Radial	-60.7781	0.01899778	0.04354386	-0.01047541	0.02392488
SELENIUM	196.090	Axial	-0.2409301	-0.008011548	-0.004690495	-0.007791769	-0.01155238
SILICON	251.611	Axial	72.51036	0.01406487	0.01484163	0.01222929	0.01512370
SILVER	328.068	Axial	105.4175	0.000006142012	-0.0006207944	0.0001935139	0.0004457066
SODIUM	589.592	Radial	64.74642	0.01224738	0.01846043	0.01761345	0.0006682436
STRONTIUM	421.552	Radial	9.396485	-0.0001681184	-0.00007342305	-0.0002272210	-0.0002037113
SULFUR	182.034	Axial	1.698272	-0.001408493	0.005159709	-0.001791122	-0.007594066
THALLIUM	190.856	Axial	0.7935806	-0.0001372154	0.0009747998	0.001364051	-0.002750497
TIN	189.989	Axial	0.3887920	0.0006685770	-0.002106452	0.0004349092	0.003677274
TITANIUM	334.941	Radial	-1.24646	0.0004454357	0.0006483548	-0.0004388499	0.001126802
VANADIUM	292.402	Radial	-1.31296	-0.0009650198	-0.0001169849	0.0004216415	-0.003199716
ZINC	206.200	Axial	4.919886	-0.001747789	-0.002055677	-0.001760214	-0.001427476

Sample ID: L1834645-06 DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 21:54 Sequence: 244

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10670.94	10620.76	10667.27	10724.80
YTTRIUM	360.073	Axial	310246.2	311349.5	312998.2	306390.8
YTTRIUM	360.073	Radial	12627.71	12641.53	12618.11	12623.48
INDIUM	230.606	Axial	2911.596	2899.085	2907.146	2928.557

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.220275	0.04687454	0.04154986	0.04120527	0.05786848
BARIUM	233.527	Axial	4280.032	1.063512	1.070771	1.065776	1.053988
BORON	249.678	Radial	15.70463	0.03774758	0.03170290	0.04484779	0.03669205
CADMIUM	228.802	Axial	25.67480	0.003873763	0.003892497	0.003918897	0.003809896
CHROMIUM	267.716	Axial	1636.140	0.1742027	0.1751452	0.1736459	0.1738169
COBALT	228.616	Axial	213.3012	0.06015405	0.06049858	0.06085588	0.05910770
LEAD	220.353	Axial	94.05202	0.1686678	0.1657098	0.1735339	0.1667598
LITHIUM	670.784	Radial	652.9717	0.08497684	0.08463374	0.08492454	0.08537224
SELENIUM	196.090	Axial	0.6081866	0.002084108	0.002229564	-0.003471481	0.007494241
SILVER	328.068	Axial	100.2247	-0.0001648910	0.0004311655	-0.0005824102	-0.0003434284
ALUMINUM	308.215	Radial	13834.51	140.4460	140.3379	140.5998	140.4004
ANTIMONY	206.833	Axial	3.223608	0.01316948	0.01604758	0.007164933	0.01629595
BERYLLIUM	313.042	Radial	229.0699	0.007541516	0.007626065	0.007458767	0.007539716
CALCIUM	373.690	Radial	41092.68	91.04932	90.98093	91.23166	90.93539
CERIUM	535.353	Radial	416.6551	0.2923479	0.3395188	0.2911383	0.2463867
COPPER	324.754	Axial	2572.098	0.09599991	0.09658466	0.09628204	0.09513302
IRON	271.441	Radial	4191.607	156.8494	156.3081	157.1638	157.0764
LANTHANUM	333.749	Radial	137.2031	0.1808872	0.1811882	0.1785219	0.1829514
MAGNESIUM	279.079	Radial	1028.108	19.31204	19.22842	19.31778	19.38991
MANGANESE	257.610	Axial	304839.3	4.547882	4.576579	4.565637	4.501430
MOLYBDENUM	202.030	Axial	5.804856	0.006607265	0.006050054	0.008821764	0.004949976
NICKEL	231.604	Axial	275.7400	0.1747778	0.1755756	0.1755939	0.1731639
PHOSPHORUS	177.495	Axial	407.7840	4.035207	4.054175	4.043136	4.008310
POTASSIUM	766.490	Radial	4583.479	13.66667	13.67043	13.73231	13.59727
SILICON	251.611	Axial	82626.40	21.30748	21.40482	21.35059	21.16704
SODIUM	589.592	Radial	1076.207	0.8509677	0.8411583	0.8592122	0.8525326
STRONTIUM	421.552	Radial	15587.22	0.3760172	0.3761507	0.3766643	0.3752365
SULFUR	182.034	Axial	233.1067	3.701991	3.715254	3.724530	3.666189
THALLIUM	190.856	Axial	-1.13901	-0.01772118	-0.01192057	-0.02100963	-0.02023334
TIN	189.989	Axial	3.968041	0.01511568	0.01610898	0.01484733	0.01439072
TITANIUM	334.941	Radial	4709.214	1.146842	1.143080	1.151046	1.146400
VANADIUM	292.402	Radial	220.7731	0.3194430	0.3206744	0.3161961	0.3214584
ZINC	206.200	Axial	1664.942	0.9517500	0.9557481	0.9520389	0.9474630

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834645-07 DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 21:57 Sequence: 245

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9983.881	9999.202	9990.470	9961.972
YTTRIUM	360.073	Axial	286187.4	289642.8	281033.2	287886.2
YTTRIUM	360.073	Radial	12117.23	12186.76	12075.84	12089.09
INDIUM	230.606	Axial	2548.781	2554.737	2552.083	2539.523

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.892232	0.05668053	0.04764238	0.05400819	0.06839102
BARIUM	233.527	Axial	3721.853	0.9884393	0.9879865	0.9866542	0.9906773
BORON	249.678	Radial	12.58552	0.02941865	0.02408987	0.03634470	0.02782138
CADMIUM	228.802	Axial	30.43479	0.004965978	0.004872191	0.005156641	0.004869101
CHROMIUM	267.716	Axial	1129.993	0.1284775	0.1273318	0.1288954	0.1292052
COBALT	228.616	Axial	684.7021	0.2175206	0.2190539	0.2161376	0.2173703
LEAD	220.353	Axial	141.5987	0.2884528	0.2880088	0.2898291	0.2875203
LITHIUM	670.784	Radial	455.2910	0.06220473	0.06243368	0.06293920	0.06124131
SELENIUM	196.090	Axial	1.898366	0.01913868	0.01979817	0.02577223	0.01184563
SILVER	328.068	Axial	117.0473	0.001888146	0.001536385	0.001137253	0.002990800
ALUMINUM	308.215	Radial	8188.581	86.58702	86.45757	86.90518	86.39830
ANTIMONY	206.833	Axial	2.510685	0.01055883	0.01267043	0.005810375	0.01319570
BERYLLIUM	313.042	Radial	133.4214	0.004696536	0.004711111	0.004743354	0.004635144
CALCIUM	373.690	Radial	390428.9	902.0223	891.2272	905.8637	908.9760
CERIUM	535.353	Radial	420.4307	0.3818021	0.3569687	0.3915704	0.3968672
COPPER	324.754	Axial	2914.851	0.1180094	0.1183796	0.1175487	0.1180998
IRON	271.441	Radial	2797.612	109.1052	108.8089	109.2221	109.2848
LANTHANUM	333.749	Radial	79.86395	0.1082521	0.1100193	0.1070833	0.1076537
MAGNESIUM	279.079	Radial	1718.235	33.63843	33.28824	33.83760	33.78945
MANGANESE	257.610	Axial	683481.5	10.89850	10.90642	10.94282	10.84627
MOLYBDENUM	202.030	Axial	5.609818	0.006858906	0.006902080	0.007163618	0.006511019
NICKEL	231.604	Axial	332.5592	0.2396471	0.2397477	0.2378569	0.2413366
PHOSPHORUS	177.495	Axial	319.1783	3.374684	3.399207	3.363038	3.361808
POTASSIUM	766.490	Radial	3286.074	10.26192	10.25126	10.27378	10.26073
SILICON	251.611	Axial	68681.76	18.92953	18.94797	18.89700	18.94363
SODIUM	589.592	Radial	1176.585	0.9754723	0.9772789	0.9763153	0.9728228
STRONTIUM	421.552	Radial	84535.90	2.127065	2.129256	2.130877	2.121061
SULFUR	182.034	Axial	205.0027	3.477980	3.479964	3.462293	3.491684
THALLIUM	190.856	Axial	-0.6107987	-0.01323735	-0.02456786	-0.006619430	-0.008524744
TIN	189.989	Axial	3.625217	0.01473894	0.01424291	0.01380234	0.01617158
TITANIUM	334.941	Radial	3132.289	0.7951685	0.7978023	0.7932646	0.7944386
VANADIUM	292.402	Radial	125.0126	0.1889002	0.1908823	0.1884314	0.1873869
ZINC	206.200	Axial	19619.29	12.03892	12.03849	12.02012	12.05814

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834645-08 DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 22:00 Sequence: 246

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10539.98	10549.41	10527.66	10542.87
YTTRIUM	360.073	Axial	306870.1	304643.7	311354.3	304612.2
YTTRIUM	360.073	Radial	12466.04	12416.32	12566.12	12415.68
INDIUM	230.606	Axial	2885.419	2888.206	2879.559	2888.491

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.505134	0.06000516	0.05744966	0.06288549	0.05968034
BARIUM	233.527	Axial	3469.656	0.8728504	0.8752987	0.8717274	0.8715250
BORON	249.678	Radial	12.82172	0.02898992	0.02281389	0.02910135	0.03505451
CADMIUM	228.802	Axial	15.98241	0.002360645	0.002354002	0.002555750	0.002172183
CHROMIUM	267.716	Axial	1261.977	0.1359373	0.1358831	0.1354796	0.1364493
COBALT	228.616	Axial	209.8077	0.05971081	0.06005716	0.05922247	0.05985280
LEAD	220.353	Axial	82.66815	0.1498534	0.1481710	0.1520904	0.1492988
LITHIUM	670.784	Radial	472.5149	0.06273789	0.06227256	0.06256965	0.06337145
SELENIUM	196.090	Axial	-0.2329281	-0.008037303	0.0008188614	-0.007178628	-0.01775214
SILVER	328.068	Axial	103.2403	0.0001888590	-0.0002667719	0.0004124230	0.0004209261
ALUMINUM	308.215	Radial	8852.116	90.99057	91.29774	90.76787	90.90609
ANTIMONY	206.833	Axial	3.648370	0.01544755	0.01077747	0.01686535	0.01869983
BERYLLIUM	313.042	Radial	182.3873	0.006141396	0.006211597	0.006061394	0.006151197
CALCIUM	373.690	Radial	80850.91	181.5208	182.2011	180.7417	181.6197
CERIUM	535.353	Radial	406.8852	0.2736943	0.2352831	0.2713442	0.3144558
COPPER	324.754	Axial	1942.616	0.07147424	0.07105772	0.07205539	0.07130963
IRON	271.441	Radial	3768.799	142.8620	143.3497	142.1145	143.1218
LANTHANUM	333.749	Radial	99.83394	0.1323453	0.1340947	0.1321254	0.1308157
MAGNESIUM	279.079	Radial	698.5139	13.29066	13.35401	13.14020	13.37777
MANGANESE	257.610	Axial	332289.4	5.018890	5.017176	5.013258	5.026237
MOLYBDENUM	202.030	Axial	6.156427	0.007174404	0.007900759	0.006951752	0.006670702
NICKEL	231.604	Axial	204.8669	0.1317906	0.1319754	0.1322899	0.1311064
PHOSPHORUS	177.495	Axial	356.3994	3.569787	3.567879	3.576823	3.564659
POTASSIUM	766.490	Radial	3052.994	9.286679	9.290539	9.311794	9.257704
SILICON	251.611	Axial	69303.74	18.09300	18.06685	18.09802	18.11413
SODIUM	589.592	Radial	706.0500	0.5511947	0.5459059	0.5486775	0.5590007
STRONTIUM	421.552	Radial	15518.02	0.3792053	0.3801732	0.3792992	0.3781436
SULFUR	182.034	Axial	177.3859	2.845648	2.855504	2.856062	2.825378
THALLIUM	190.856	Axial	-1.04921	-0.01699593	-0.01561815	-0.01639463	-0.01897500
TIN	189.989	Axial	3.384205	0.01293351	0.01255923	0.01270756	0.01353374
TITANIUM	334.941	Radial	3627.195	0.8949487	0.8999008	0.8966270	0.8883184
VANADIUM	292.402	Radial	191.7607	0.2811874	0.2832169	0.2794760	0.2808693
ZINC	206.200	Axial	1052.016	0.6072232	0.5951255	0.6036935	0.6228504

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834645-09 DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 22:03 Sequence: 247

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10797.08	10756.75	10800.11	10834.37
YTTRIUM	360.073	Axial	313443.0	315801.2	311872.2	312655.7
YTTRIUM	360.073	Radial	12634.02	12682.85	12593.90	12625.31
INDIUM	230.606	Axial	2934.017	2927.255	2933.289	2941.507

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.684563	0.06045064	0.06676167	0.06076613	0.05382413
BARIUM	233.527	Axial	5735.483	1.408463	1.412028	1.408975	1.404387
BORON	249.678	Radial	11.00394	0.02258457	0.02119909	0.02603871	0.02051593
CADMIUM	228.802	Axial	18.11777	0.002635354	0.002592092	0.002604986	0.002708982
CHROMIUM	267.716	Axial	2136.127	0.2249056	0.2254128	0.2255736	0.2237306
COBALT	228.616	Axial	273.0516	0.07610367	0.07648789	0.07598118	0.07584194
LEAD	220.353	Axial	103.9887	0.1848424	0.1842739	0.1872834	0.1829699
LITHIUM	670.784	Radial	758.5639	0.09839793	0.09917632	0.09860882	0.09740866
SELENIUM	196.090	Axial	-0.3653142	-0.009554376	-0.01329118	-0.01583138	0.0004594306
SILVER	328.068	Axial	106.8464	0.0002780114	0.0008901477	-0.0005178412	0.0004617278
ALUMINUM	308.215	Radial	16631.42	168.7774	169.5203	168.2554	168.5564
ANTIMONY	206.833	Axial	4.722216	0.02015389	0.02100155	0.01593576	0.02352437
BERYLLIUM	313.042	Radial	278.9728	0.009114115	0.009148457	0.009111267	0.009082621
CALCIUM	373.690	Radial	17591.28	38.92727	38.91575	38.95215	38.91390
CERIUM	535.353	Radial	444.6548	0.4078619	0.4250337	0.4044857	0.3940662
COPPER	324.754	Axial	2822.180	0.1047932	0.1046457	0.1052224	0.1045116
IRON	271.441	Radial	5263.352	196.8477	197.2894	196.7010	196.5525
LANTHANUM	333.749	Radial	147.8891	0.1951714	0.1943296	0.1981660	0.1930185
MAGNESIUM	279.079	Radial	939.1311	17.63147	17.67638	17.60437	17.61366
MANGANESE	257.610	Axial	402679.5	5.937340	5.956894	5.951213	5.903912
MOLYBDENUM	202.030	Axial	8.006437	0.009412359	0.01004807	0.01024502	0.007943992
NICKEL	231.604	Axial	387.9200	0.2427946	0.2431948	0.2427040	0.2424848
PHOSPHORUS	177.495	Axial	376.9256	3.685739	3.717016	3.672444	3.667757
POTASSIUM	766.490	Radial	4479.052	13.35325	13.39325	13.36152	13.30498
SILICON	251.611	Axial	69632.29	17.74583	17.73957	17.77387	17.72404
SODIUM	589.592	Radial	966.6998	0.7595997	0.7735014	0.7543882	0.7509095
STRONTIUM	421.552	Radial	16895.95	0.4074120	0.4107393	0.4063447	0.4051520
SULFUR	182.034	Axial	153.1458	2.393959	2.417237	2.384357	2.380283
THALLIUM	190.856	Axial	-0.8355402	-0.01485673	-0.009748690	-0.02079263	-0.01402886
TIN	189.989	Axial	4.156452	0.01567552	0.01638503	0.01408041	0.01656114
TITANIUM	334.941	Radial	5584.651	1.359200	1.369509	1.357893	1.350199
VANADIUM	292.402	Radial	273.1651	0.3948230	0.3953997	0.3959676	0.3931019
ZINC	206.200	Axial	1121.362	0.6320235	0.6338762	0.6327316	0.6294627

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834645-10 DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 22:06 Sequence: 248

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10247.97	10289.46	10221.97	10232.46
YTTRIUM	360.073	Axial	295276.3	293530.5	296859.0	295439.3
YTTRIUM	360.073	Radial	12188.02	12234.33	12206.28	12123.46
INDIUM	230.606	Axial	2696.159	2703.316	2687.223	2697.940

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	3.325472	0.03955114	0.04730676	0.03211716	0.03922949
BARIUM	233.527	Axial	3842.075	0.9940777	0.9901919	0.9944057	0.9976354
BORON	249.678	Radial	11.66095	0.02609006	0.01790417	0.02808669	0.03227933
CADMIUM	228.802	Axial	13.38072	0.002002806	0.001747310	0.002171064	0.002090043
CHROMIUM	267.716	Axial	1223.073	0.1355014	0.1345265	0.1355776	0.1364000
COBALT	228.616	Axial	156.6369	0.04793783	0.04861828	0.04808180	0.04711340
LEAD	220.353	Axial	80.35101	0.1557811	0.1571508	0.1541378	0.1560548
LITHIUM	670.784	Radial	439.9162	0.05981940	0.06108266	0.05899678	0.05937877
SELENIUM	196.090	Axial	0.7122986	0.003659659	0.02166052	-0.004968375	-0.005713170
SILVER	328.068	Axial	105.8245	0.0006559066	0.001020078	0.0008261960	0.0001214461
ALUMINUM	308.215	Radial	9082.455	95.49307	95.64087	95.10287	95.73548
ANTIMONY	206.833	Axial	3.158692	0.01349056	0.01146666	0.01088095	0.01812407
BERYLLIUM	313.042	Radial	156.8750	0.005438996	0.005461633	0.005385646	0.005469710
CALCIUM	373.690	Radial	226577.7	520.3982	519.5619	518.1089	523.5237
CERIUM	535.353	Radial	438.9082	0.4506072	0.4701123	0.4936500	0.3880594
COPPER	324.754	Axial	1920.337	0.07280585	0.07197775	0.07249426	0.07394553
IRON	271.441	Radial	3083.686	119.5621	119.1937	119.1172	120.3754
LANTHANUM	333.749	Radial	123.6677	0.1686728	0.1706852	0.1678974	0.1674358
MAGNESIUM	279.079	Radial	998.6861	19.43639	19.39231	19.36620	19.55067
MANGANESE	257.610	Axial	363739.9	5.650576	5.611778	5.675060	5.664888
MOLYBDENUM	202.030	Axial	4.570996	0.005214654	0.004998589	0.004742168	0.005903204
NICKEL	231.604	Axial	152.8589	0.1058473	0.1071457	0.1057151	0.1046812
PHOSPHORUS	177.495	Axial	436.8608	4.502018	4.483740	4.506806	4.515509
POTASSIUM	766.490	Radial	3595.147	11.14430	11.15379	11.08239	11.19673
SILICON	251.611	Axial	70524.53	18.93676	18.81144	18.95397	19.04488
SODIUM	589.592	Radial	1124.585	0.9248164	0.9274459	0.9248069	0.9221965
STRONTIUM	421.552	Radial	41327.29	1.033630	1.033127	1.029914	1.037851
SULFUR	182.034	Axial	190.1719	3.140543	3.136662	3.128218	3.156750
THALLIUM	190.856	Axial	-0.6202812	-0.01319217	-0.007133293	-0.02067405	-0.01176918
TIN	189.989	Axial	2.456998	0.009437505	0.01193305	0.008258998	0.008120471
TITANIUM	334.941	Radial	3963.130	1.000078	0.9990282	0.9934013	1.007803
VANADIUM	292.402	Radial	176.2763	0.2644322	0.2664948	0.2607507	0.2660510
ZINC	206.200	Axial	553.5411	0.3265500	0.3251177	0.3274839	0.3270484

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834645-11 DF: 1x Batch: WG2467982 Units: mg/kg
Analyzed: 03/13/25 22:09 Sequence: 249

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10520.71	10521.28	10528.80	10512.04
YTTRIUM	360.073	Axial	304661.4	304425.2	304429.3	305129.8
YTTRIUM	360.073	Radial	12473.66	12425.28	12542.87	12452.82
INDIUM	230.606	Axial	2872.719	2871.456	2879.193	2867.510

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.987372	0.05501884	0.05746062	0.05197497	0.05562093
BARIUM	233.527	Axial	4074.443	1.026861	1.028419	1.024389	1.027774
BORON	249.678	Radial	10.04680	0.01990917	0.01997460	0.02153907	0.01821383
CADMIUM	228.802	Axial	17.62746	0.002631215	0.002812314	0.002494873	0.002586457
CHROMIUM	267.716	Axial	1405.543	0.1517298	0.1526434	0.1513007	0.1512451
COBALT	228.616	Axial	242.7121	0.06919579	0.06928919	0.06932693	0.06897124
LEAD	220.353	Axial	107.9914	0.1959122	0.1951538	0.1980909	0.1944920
LITHIUM	670.784	Radial	531.6358	0.07033739	0.07126856	0.06972861	0.07001501
SELENIUM	196.090	Axial	-0.1056403	-0.006490242	-0.006373705	-0.009090472	-0.004006551
SILVER	328.068	Axial	108.1387	0.0006147126	0.001026689	-0.00004998389	0.0008674323
ALUMINUM	308.215	Radial	9808.911	100.7769	101.2623	100.3144	100.7541
ANTIMONY	206.833	Axial	3.483474	0.01466963	0.01166818	0.01561337	0.01672733
BERYLLIUM	313.042	Radial	194.1705	0.006514556	0.006606698	0.006510081	0.006426889
CALCIUM	373.690	Radial	81107.51	181.9850	182.5517	181.2268	182.1764
CERIUM	535.353	Radial	423.6468	0.3432850	0.3664264	0.3176029	0.3458256
COPPER	324.754	Axial	2076.886	0.07713725	0.07742174	0.07654710	0.07744293
IRON	271.441	Radial	3885.786	147.2046	148.0193	146.6944	146.9001
LANTHANUM	333.749	Radial	114.3527	0.1520403	0.1559700	0.1529853	0.1471655
MAGNESIUM	279.079	Radial	679.8691	12.92743	12.97556	12.90200	12.90473
MANGANESE	257.610	Axial	414903.4	6.278224	6.292286	6.274402	6.267984
MOLYBDENUM	202.030	Axial	6.485442	0.007633953	0.007661206	0.007466694	0.007773959
NICKEL	231.604	Axial	215.5048	0.1390752	0.1407343	0.1378640	0.1386272
PHOSPHORUS	177.495	Axial	347.1935	3.483804	3.466001	3.481112	3.504299
POTASSIUM	766.490	Radial	3121.566	9.485523	9.573490	9.364891	9.518188
SILICON	251.611	Axial	63322.30	16.56138	16.60447	16.49613	16.58355
SODIUM	589.592	Radial	666.1211	0.5172916	0.5256894	0.5047480	0.5214374
STRONTIUM	421.552	Radial	14313.91	0.3495416	0.3513848	0.3480503	0.3491897
SULFUR	182.034	Axial	178.4652	2.868411	2.895765	2.875113	2.834355
THALLIUM	190.856	Axial	-0.5003277	-0.01191048	-0.01453135	-0.01666935	-0.004530743
TIN	189.989	Axial	2.788727	0.01052771	0.008255591	0.01458569	0.008741858
TITANIUM	334.941	Radial	3725.044	0.9185302	0.9219965	0.9142490	0.9193450
VANADIUM	292.402	Radial	207.7596	0.3043760	0.3065603	0.3038440	0.3027237
ZINC	206.200	Axial	1058.762	0.6122735	0.6139355	0.6087051	0.6141800

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/13/25 22:12 Sequence: 250 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10564.04	10549.88	10612.51	10529.72
YTTRIUM	360.073	Axial	305519.2	304340.8	305131.8	307085.0
YTTRIUM	360.073	Radial	12183.97	12117.85	12202.42	12231.62
INDIUM	230.606	Axial	2994.846	2992.274	3009.905	2982.359

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	952.6944	9.915601	10.02102	9.918398	9.807380
ANTIMONY	206.833	Axial	102.3191	0.4977376	0.4979079	0.5005528	0.4947522
ARSENIC	189.042	Axial	102.4382	1.007824	1.011142	1.000030	1.012300
BARIUM	233.527	Axial	2089.270	0.5244314	0.5256018	0.5219908	0.5257017
BERYLLIUM	313.042	Radial	6284.494	0.2061392	0.2073970	0.2064898	0.2045307
BORON	249.678	Radial	297.6876	0.9812497	0.9723370	0.9887008	0.9827113
CADMIUM	228.802	Axial	3130.042	0.5036851	0.5048045	0.5013273	0.5049236
CALCIUM	373.690	Radial	23115.34	53.06091	53.35588	53.09755	52.72930
CHROMIUM	267.716	Axial	9828.951	1.059292	1.058853	1.057505	1.061518
COBALT	228.616	Axial	3705.280	0.9976860	0.9991678	0.9925277	1.001363
COPPER	324.754	Axial	25366.84	1.029852	1.032185	1.030234	1.027138
IRON	259.940	Radial	5158.522	10.09785	10.17755	10.07827	10.03774
LEAD	220.353	Axial	286.2421	0.4946462	0.4958470	0.4899525	0.4981391
LITHIUM	670.784	Radial	7936.199	1.051002	1.055648	1.053997	1.043360
MAGNESIUM	279.079	Radial	498.5877	9.704997	9.705891	9.723152	9.685947
MANGANESE	257.610	Axial	70252.42	1.058503	1.058324	1.057077	1.060109
MOLYBDENUM	202.030	Axial	193.9220	0.2595170	0.2606941	0.2584738	0.2593831
NICKEL	231.604	Axial	1632.053	0.9912541	0.9939025	0.9878296	0.9920301
PHOSPHORUS	177.495	Axial	98.64101	0.9812985	0.9834110	0.9949446	0.9655398
POTASSIUM	766.490	Radial	17052.21	52.12190	52.30768	52.19201	51.86601
SELENIUM	196.090	Axial	83.49640	1.007041	1.020536	0.9998308	1.000756
SILICON	251.611	Axial	8040.245	2.090658	2.073039	2.093898	2.105038
SILVER	328.068	Axial	6450.155	0.5292633	0.5289156	0.5293070	0.5295673
SODIUM	818.326	Radial	3548.691	53.26623	53.45243	53.31997	53.02628
STRONTIUM	421.552	Radial	41230.51	1.031551	1.033909	1.032235	1.028508
SULFUR	182.034	Axial	295.1769	4.742839	4.743916	4.735385	4.749215
THALLIUM	190.856	Axial	109.7878	1.021543	1.020489	1.030583	1.013558
TIN	189.989	Axial	128.7953	0.5225013	0.5263567	0.5161157	0.5250314
TITANIUM	334.941	Radial	4037.447	1.019151	1.023014	1.020756	1.013682
VANADIUM	292.402	Radial	673.2000	1.007473	1.018957	1.002544	1.000917
ZINC	206.200	Axial	1810.084	1.045626	1.048360	1.041245	1.047273
CERIUM	535.353	Radial	353.6116	0.08386364	0.1377654	0.01998770	0.09383780
HOT WATER SOL. BORON	249.678	Radial	297.6876	0.9812497	0.9723370	0.9887008	0.9827113
LANTHANUM	333.749	Radial	2.525138	-0.0002170216	-0.001233237	0.002991376	-0.002409203

Sample ID: CCB Units: mg/l
Analyzed: 03/13/25 22:15 Sequence: 251

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10955.11	10950.74	10937.77	10976.82
YTTRIUM	360.073	Axial	322371.7	322829.7	322208.4	322077.0
YTTRIUM	360.073	Radial	12298.52	12374.81	12272.66	12248.08
INDIUM	230.606	Axial	3307.297	3311.533	3291.603	3318.756

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	12.81493	0.01668416	0.04018130	0.002520692	0.007350484
ANTIMONY	206.833	Axial	0.4400797	-0.0003556526	-0.002416189	0.0004256679	0.0009235630
ARSENIC	189.042	Axial	-0.3649928	0.002594393	0.001932007	-0.003993594	0.009844767
BARIUM	233.527	Axial	1.950413	0.0005491452	0.0002352905	0.0004410468	0.0009710984
BERYLLIUM	313.042	Radial	-11.3433	-0.00006560561	-0.00001039553	-0.0001051133	-0.00008130797
BORON	249.678	Radial	2.804776	-0.003593708	0.0007016486	-0.004848302	-0.006634470
CADMIUM	228.802	Axial	5.669988	0.0006615620	0.0002554793	0.0006319483	0.001097259
CALCIUM	317.933	Radial	79.23204	-0.0004665311	-0.007563578	-0.0005227064	0.006686691
CERIUM	535.353	Radial	337.6095	0.001178914	0.01850170	-0.02580590	0.01084095
CHROMIUM	267.716	Axial	8.796296	0.0004796341	0.0007583982	0.0002275806	0.0004529236
COBALT	228.616	Axial	-0.6837349	0.0009756080	0.00002745941	0.0005537055	0.002345659
COPPER	324.754	Axial	223.8706	0.0006313044	0.001087354	0.0004221378	0.0003844212
HOT WATER SOL. BORON	249.678	Radial	2.804776	-0.003593708	0.0007016486	-0.004848302	-0.006634470
IRON	259.940	Radial	41.99964	0.001660804	0.0003265934	-0.0003067981	0.004962617
LANTHANUM	333.749	Radial	6.927888	0.005837200	0.005357426	0.003298946	0.008855228
LEAD	220.353	Axial	-0.3939546	0.001644238	0.001077403	0.001803239	0.002052073
LITHIUM	670.784	Radial	-5.35457	0.0009753625	0.0008110437	0.0005129288	0.001602115
MAGNESIUM	279.079	Radial	1.620012	0.02799987	0.04045847	0.03652689	0.007014253
MANGANESE	257.610	Axial	32.17080	0.0002452264	0.0001802083	0.0002238446	0.0003316263
MOLYBDENUM	202.030	Axial	1.504269	0.0008310712	0.0002909125	0.001214133	0.0009881682
NICKEL	231.604	Axial	-3.11252	0.001331400	0.0005729921	0.001235287	0.002185920
PHOSPHORUS	177.495	Axial	1.210729	0.005569851	0.01178587	-0.00009843828	0.005022119
POTASSIUM	766.490	Radial	-58.2652	0.02564479	0.05538875	0.03931319	-0.01776756
SELENIUM	196.090	Axial	0.6620666	0.002525374	0.0001116540	-0.003253932	0.01071840
SILICON	251.611	Axial	40.69562	0.006132564	0.004379099	0.004738925	0.009279668
SILVER	328.068	Axial	101.4181	-0.0002847370	-0.0003022514	-0.0003096767	-0.0002422828
SODIUM	589.592	Radial	63.10482	0.01106033	0.01640260	0.009882484	0.006895910
STRONTIUM	421.552	Radial	16.94782	0.00002003850	-0.00006715229	0.00007088151	0.00005638630
SULFUR	182.034	Axial	1.620283	-0.002540442	0.001618130	-0.01341119	0.004171737
THALLIUM	190.856	Axial	0.8392529	0.0002497130	0.0005475417	-0.003857194	0.004058791
TIN	189.989	Axial	0.3502926	0.0005227670	-0.001486668	0.001168073	0.001886896
TITANIUM	334.941	Radial	1.055213	0.001012475	0.002325022	-0.0002907766	0.001003180
VANADIUM	292.402	Radial	-1.30869	-0.0009526958	-0.003542402	-0.0007064222	0.001390737
ZINC	206.200	Axial	5.357264	-0.001493689	-0.002110876	-0.001505902	-0.0008642894

Sample ID: ICSA Units: mg/l
Analyzed: 03/13/25 22:18 Sequence: 252 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9486.543	9469.337	9493.357	9496.936
YTTRIUM	360.073	Axial	269362.1	270115.4	270165.1	267805.8
YTTRIUM	360.073	Radial	11684.57	11770.71	11646.11	11636.90
INDIUM	230.606	Axial	2486.965	2482.613	2487.575	2490.707

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	46032.35	505.3351	505.8503	505.7170	504.4379
ANTIMONY	206.833	Axial	0.3267583	-0.0006532052	-0.002616034	-0.005579106	0.006235525
ARSENIC	189.042	Axial	-2.05158	-0.01629296	-0.01046723	-0.02965537	-0.008756283
BARIUM	233.527	Axial	9.142985	0.002632681	0.002610267	0.002191768	0.003096007
BERYLLIUM	313.042	Radial	-9.80176	-0.00003234007	0.00002066444	-0.00001206480	-0.0001056198
BORON	249.678	Radial	-2.73210	-0.02239664	-0.01645272	-0.01866653	-0.03207068
CADMIUM	228.802	Axial	8.296465	0.001268700	0.0009566251	0.0009998877	0.001849589
CALCIUM	373.690	Radial	212379.4	508.7988	508.0651	509.6924	508.6391
CERIUM	535.353	Radial	305.7176	-0.06648212	-0.03608298	-0.07621965	-0.08714374
CHROMIUM	267.716	Axial	-25.9759	-0.003552520	-0.002452520	-0.003893750	-0.004311291
COBALT	228.616	Axial	0.4992230	0.001305907	0.001746787	0.0007707714	0.001400164
COPPER	324.754	Axial	-123.123	-0.01381373	-0.01385845	-0.01388039	-0.01370235
HOT WATER SOL. BORON	249.678	Radial	-2.73210	-0.02239664	-0.01645272	-0.01866653	-0.03207068
IRON	271.441	Radial	4856.766	196.4042	195.7523	196.8933	196.5670
LANTHANUM	333.749	Radial	-7.63597	-0.01484770	-0.01304281	-0.02217031	-0.009329975
LEAD	220.353	Axial	-6.34501	-0.01088692	-0.01248488	-0.01054497	-0.009630905
LITHIUM	670.784	Radial	5.072012	0.002375146	0.002375495	0.002346488	0.002403454
MAGNESIUM	279.079	Radial	24589.60	499.2603	497.2312	501.0486	499.5010
MANGANESE	257.610	Axial	127.0268	0.001909612	0.001982454	0.001871430	0.001874952
MOLYBDENUM	202.030	Axial	1.565003	0.001225354	0.003256962	-0.001682476	0.002101575
NICKEL	231.604	Axial	-16.6308	-0.009087166	-0.008237630	-0.01023154	-0.008792323
PHOSPHORUS	177.495	Axial	1.556445	0.01124096	0.01744175	0.01227530	0.004005829
POTASSIUM	766.490	Radial	-41.3058	0.07038555	0.06695543	0.04407402	0.1001272
SELENIUM	196.090	Axial	0.5061991	0.001619454	-0.005434097	-0.01270312	0.02299558
SILICON	251.611	Axial	-66.4602	-0.02337069	-0.02386172	-0.02391234	-0.02233801
SILVER	328.068	Axial	76.68113	-0.001317933	-0.0001756006	-0.001853588	-0.001924610
SODIUM	589.592	Radial	147.8315	0.08990557	0.09971196	0.08445227	0.08555248
STRONTIUM	421.552	Radial	254.7886	0.006247949	0.006567639	0.005986085	0.006190123
SULFUR	182.034	Axial	-8.04069	-0.1724963	-0.1734108	-0.1733829	-0.1706953
THALLIUM	190.856	Axial	-0.2846406	-0.01022461	-0.006915425	-0.01483191	-0.008926506
TIN	189.989	Axial	-1.08040	-0.005735181	-0.003316667	-0.005228285	-0.008660591
TITANIUM	334.941	Radial	-50.4882	-0.01252206	-0.01381774	-0.01157326	-0.01217518
VANADIUM	292.402	Radial	-4.96507	-0.006771888	-0.004535729	-0.006810157	-0.008969777
ZINC	206.200	Axial	41.52442	0.02233576	0.02205894	0.02211357	0.02283478

Sample ID: ICSAB Units: mg/l
Analyzed: 03/13/25 22:20 Sequence: 253 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9513.342	9570.839	9469.720	9499.468
YTTRIUM	360.073	Axial	272047.0	272039.8	272885.9	271215.5
YTTRIUM	360.073	Radial	11637.48	11563.52	11699.54	11649.38
INDIUM	230.606	Axial	2483.061	2493.668	2471.982	2483.535

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	47001.12	518.0715	520.1193	515.6839	518.4114
ANTIMONY	206.833	Axial	92.74180	0.5010112	0.4981238	0.5062872	0.4986225
ARSENIC	189.042	Axial	45.00226	0.4947538	0.4880560	0.4968992	0.4993063
BARIUM	233.527	Axial	1854.882	0.5170239	0.5147628	0.5198555	0.5164535
BERYLLIUM	313.042	Radial	14701.05	0.5044189	0.5067169	0.5008483	0.5056914
BORON	249.678	Radial	282.2326	0.9739188	0.9777625	0.9809176	0.9630763
CADMIUM	228.802	Axial	5858.873	1.047177	1.041741	1.051026	1.048763
CALCIUM	373.690	Radial	216487.7	520.7474	522.8983	518.2592	521.0847
CERIUM	535.353	Radial	304.3911	-0.06664474	-0.01812408	-0.08743191	-0.09437823
CHROMIUM	267.716	Axial	4205.212	0.5030394	0.5001367	0.5048068	0.5041748
COBALT	228.616	Axial	1528.217	0.4968771	0.4938006	0.4996752	0.4971555
COPPER	324.754	Axial	11967.83	0.5356425	0.5313533	0.5352912	0.5402830
HOT WATER SOL. BORON	249.678	Radial	282.2326	0.9739188	0.9777625	0.9809176	0.9630763
IRON	271.441	Radial	4936.498	200.4381	201.7853	199.4803	200.0486
LANTHANUM	333.749	Radial	-7.41518	-0.01459433	-0.02338580	-0.009426632	-0.01097055
LEAD	220.353	Axial	465.1863	0.9673739	0.9653888	0.9696831	0.9670498
LITHIUM	670.784	Radial	14.62770	0.003701386	0.004094450	0.003920256	0.003089452
MAGNESIUM	279.079	Radial	25307.39	515.9160	518.2404	513.0224	516.4853
MANGANESE	257.610	Axial	30400.80	0.5085306	0.5067876	0.5094355	0.5093687
MOLYBDENUM	202.030	Axial	335.6216	0.4997893	0.4970638	0.5019864	0.5003177
NICKEL	231.604	Axial	1319.335	0.9665655	0.9611721	0.9725324	0.9659919
PHOSPHORUS	177.495	Axial	1.376445	0.009155355	0.01665617	-0.001316100	0.01212600
POTASSIUM	766.490	Radial	-50.7801	0.03953501	0.001511688	0.04305393	0.07403942
SELENIUM	196.090	Axial	37.64502	0.5016118	0.4924486	0.5168780	0.4955090
SILICON	251.611	Axial	3393.991	0.9778336	0.9711461	0.9788649	0.9834897
SILVER	328.068	Axial	9180.498	0.8414113	0.8339129	0.8390325	0.8512886
SODIUM	589.592	Radial	133.0402	0.07716687	0.08225992	0.07453663	0.07470405
STRONTIUM	421.552	Radial	263.9162	0.006514523	0.006300078	0.006612462	0.006631028
SULFUR	182.034	Axial	-8.15907	-0.1742412	-0.1633767	-0.1759266	-0.1834202
THALLIUM	190.856	Axial	44.75197	0.4636878	0.4433435	0.4915307	0.4561893
TIN	189.989	Axial	104.6627	0.4714088	0.4681862	0.4736447	0.4723955
TITANIUM	334.941	Radial	1859.988	0.4919533	0.4953602	0.4866425	0.4938573
VANADIUM	292.402	Radial	303.6308	0.4762339	0.4769685	0.4784450	0.4732881
ZINC	206.200	Axial	1506.026	0.9657311	0.9615951	0.9700633	0.9655349

3050B ICP SS Metals Prep Benchsheet

Workgroup: WG2467982

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834004	WG2466963	BJM688	PREPREPBAL3	12-MAR-25
L1834645	WG2466977	BJM688	PREPREPBAL4	12-MAR-25
L1834761	WG2467809	CMW844	PREPREPBAL2	12-MAR-25

Prep Start Date/Time: 03/13/25 08:26-08:28 **Analyst:** MKH4302 **Balance ID:** METBAL9 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Pipette ID:** F13412601
Hotblock ID: MPO **Digestion Chips Lot #:** 25C10377 **Thermometer ID#:** 942699 **Thermometer Location:** I6 **Prep Start Analyst:** MKH4302
Dig. Start Date/Time: 03/13/25 09:02:27 **Prep End Date/Time:** 03/13/25 14:12 **Prep End Analyst:** MKH4302 **Dig. End Date/Time:** 03/13/25 13:34:35
Pipette Tip Lot#: 24290091 **Method:** 3050B **SOP:** ENV-SOP-MTJL-0217 **Sieve ID:** NA **Sieve Size:** NA

1:1 Nitric Acid: 25C12740 Amt. Used: 5 mL Exp. Date:08/06/25 **Nitric Acid:** 25C10409 Amt. Used: 2.50 mL Exp. Date:09/10/25
Hydrogen Peroxide: 25C10403 Amt. Used: 1.50 mL Exp. Date:09/10/25 **Hydrochloric Acid:** 25C06016 Amt. Used: 2.50 mL Exp. Date:09/06/25
High Spike: 25A31301 Amt. Used: 0.50 mL Exp. Date:07/31/25 **High Spike 2:** 25A31332 Amt. Used: 0.50 mL Exp. Date:07/31/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Box ID	Spike Factor	Review Analyst	Review Date
BLANK	0.48	50	PELLETS		1	MKH4302	03/13/25 14:12:42
LCS	0.51	50	PELLETS		1	MKH4302	03/13/25 14:12:42
MS(L1834761-01)	0.49	50	SOIL	Wed-6/PP2 0312	1	MKH4302	03/13/25 14:12:42
MSD(L1834761-01)	0.51	50	SOIL	Wed-6/PP2 0312	1	MKH4302	03/13/25 14:12:42
1. L1834004-114	0.55	50	SOIL		1	MKH4302	03/13/25 14:12:42
2. L1834004-115	0.53	50	SOIL		1	MKH4302	03/13/25 14:12:42
3. L1834004-116	0.52	50	SOIL		1	MKH4302	03/13/25 14:12:42
4. L1834004-117	0.54	50	SOIL		1	MKH4302	03/13/25 14:12:42
5. L1834004-118	0.52	50	SOIL		1	MKH4302	03/13/25 14:12:42
6. L1834004-119	0.54	50	SOIL		1	MKH4302	03/13/25 14:12:42
7. L1834004-120	0.53	50	SOIL		1	MKH4302	03/13/25 14:12:42
8. L1834004-122	0.55	50	SOIL		1	MKH4302	03/13/25 14:12:42
9. L1834645-01	0.49	50	SOIL		1	MKH4302	03/13/25 14:12:42
10. L1834645-02	0.48	50	SOIL		1	MKH4302	03/13/25 14:12:42
11. L1834645-03	0.51	50	SOIL		1	MKH4302	03/13/25 14:12:42
12. L1834645-04	0.54	50	SOIL		1	MKH4302	03/13/25 14:12:42
13. L1834645-05	0.50	50	SOIL		1	MKH4302	03/13/25 14:12:42
14. L1834645-06	0.55	50	SOIL		1	MKH4302	03/13/25 14:12:42
15. L1834645-07	0.50	50	SOIL		1	MKH4302	03/13/25 14:12:42
16. L1834645-08	0.54	50	SOIL		1	MKH4302	03/13/25 14:12:42
17. L1834645-09	0.55	50	SOIL		1	MKH4302	03/13/25 14:12:42
18. L1834645-10	0.55	50	SOIL		1	MKH4302	03/13/25 14:12:42
19. L1834645-11	0.53	50	SOIL		1	MKH4302	03/13/25 14:12:42
20. L1834761-01	0.49	50	SOIL	Wed-6/PP2 0312	1	MKH4302	03/13/25 14:12:42

Comments:
PEER REVIEWED BY HFM3829. 0313

Reviewed By:MKH4302 on 03/13/25 14:12:42

#	Type	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Hotblock	0	03/13/25 09:02:12	94	94	03/13/25 13:34:22	94	94	BLANK, LCS, MS(L1834761-01), MSD(L1834761-01), L1834004-114, L1834004-115, L1834004-116, L1834004-117, L1834004-118, L1834004-119, L1834004-120, L1834004-122, L1834645-01, L1834645-02, L1834645-03, L1834645-04, L1834645-05, L1834645-06, L1834645-07, L1834645-08, L1834645-09, L1834645-10, L1834645-11, L1834761-01

7471B Mercury

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1834645-01	**SDG:**	L1834645
Client Sample ID:	MONTROSE_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250316171856	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:35
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:18
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.29 g
Total Solids (%):	70.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0294	0.0572

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1834645-02	**SDG:**	L1834645
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250316172135	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:35
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:21
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.34 g
Total Solids (%):	78.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0263	0.0510

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
650_851_I_SO

Lab Sample ID:	L1834645-03	**SDG:**	L1834645
Client Sample ID:	650_851_I_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	20250316172715	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:35
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:27
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.33 g
Total Solids (%):	73.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0282	0.0548

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834645-04	**SDG:**	L1834645
Client Sample ID:	601_T_I_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	20250316172955	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:35
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:29
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.33 g
Total Solids (%):	71.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0287	0.0556

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
250_651_I_SO

Lab Sample ID:	L1834645-05	**SDG:**	L1834645
Client Sample ID:	250_651_I_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	20250316173235	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:35
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:32
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.32 g
Total Solids (%):	74.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0278	0.0540

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1834645-06	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	20250316173515	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:35
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:35
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.31 g
Total Solids (%):	71.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0288	0.0559

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1834645-07	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	20250316173754	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:35
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:37
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.32 g
Total Solids (%):	74.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0275	0.0535

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAY GROUND_I_SO

Lab Sample ID:	L1834645-08	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	20250316174033	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:35
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:40
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	75.7	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0272	0.0529

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_I_SO

Lab Sample ID:	L1834645-09	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	20250316174826	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:35
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:48
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.31 g
Total Solids (%):	72.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0286	0.0554

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_I_SO

Lab Sample ID:	L1834645-10	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_TRACK_I_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	20250316175104	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:35
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:51
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.28 g
Total Solids (%):	71.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0289	0.0562

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_I_SO

Lab Sample ID:	L1834645-11	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DUP_I_SO	**Collected Date/Time:**	03/10/25 17:00
Lab File ID:	20250316175343	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:35
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:53
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.31 g
Total Solids (%):	75.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0273	0.0530

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186968-1	**SDG:**	L1834645
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250316165508	**Received Date/Time:**	_____
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:31
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 16:55
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186968-2	**SDG:**	L1834645
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250316165748	**Received Date/Time:**	_____
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:31
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 16:57
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.529		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186968-4	**SDG:**	L1834645
Client Sample ID:	MS	**Collected Date/Time:**	02/21/25 10:48
Lab File ID:	20250316170545	**Received Date/Time:**	02/24/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:31
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:05
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.33 g
Total Solids (%):	78.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.800		0.0264	0.0513

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186968-5	**SDG:**	L1834645
Client Sample ID:	MSD	**Collected Date/Time:**	02/21/25 10:48
Lab File ID:	20250316171338	**Received Date/Time:**	02/24/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:31
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:13
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.33 g
Total Solids (%):	78.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.799		0.0264	0.0513

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186968-3	**SDG:**	L1834645
Client Sample ID:	SD	**Collected Date/Time:**	02/21/25 10:48
Lab File ID:	20250316170306	**Received Date/Time:**	02/24/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 17:35
Analytical Batch:	WG2468217	**Analysis Date/Time:**	03/16/25 17:03
Dilution Factor:	5	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.31 g
Total Solids (%):	78.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.132	J	0.132	0.257

CALIBRATION VERIFICATION

SDG:	L1834645	**Calibration (begin) date/time:**	03/16/25 15:03
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/16/25 15:16
Analytical Method:	7471B	**Analytical Run:**	031625CVAA10 S
Concentration Units:	mg/kg		

	ICV				**ICVLL**				**CCV**			
Sample ID:	CVAA100316251523				CVAA100316251533				CVAA100316251634			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.005194501	104	3.180000	0.0002	0.0001708296	85.40	4.340000	0.0050	0.00505542	101	2.060000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834645	**Calibration (begin) date/time:**	03/16/25 15:03
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/16/25 15:16
Analytical Method:	7471B	**Analytical Run:**	031625CVAA10 S
Concentration Units:	mg/kg		

		CCV				**CCV**				**CCV**			
Sample ID:		CVAA100316251708				CVAA100316251743				CVAA100316251814			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.005067883	101	1.870000	0.0050	0.005052527	101	2.310000	0.0050	0.005056303	101	1.910000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110

SDG:	L1834645	**Calibration (begin) date/time:**	03/16/25 15:03
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/16/25 15:16
Analytical Method:	7471B	**Analytical Run:**	031625CVAA10 S

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250316152540		20250316163734		20250316165508		20250316171102	
Analyte	mg/kg		mg/kg		mg/kg		mg/kg	
MERCURY	-0.00005544723	U	-0.00004824377	U	U		-0.00004414027	U

SDG:	L1834645	**Calibration (begin) date/time:**	03/16/25 15:03
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/16/25 15:16
Analytical Method:	7471B	**Analytical Run:**	031625CVAA10 S

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250316174549		20250316181734	
Analyte	mg/kg		mg/kg	
MERCURY	-0.00004276267	U	-0.00004281968	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834645-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.:
R4186968-4
R4186968-5

MS Sample / File ID:	R4186968-4 / 20250316170545	**SDG:**	L1834645
MSD Sample / File ID:	R4186968-5 / 20250316171338	**Analytical Batch:**	WG2468217
OS Sample / File ID:	L1829230-25 / 20250316170027	**Matrix:**	Solid
Instrument ID:	CVAA10		
Analytical Method:	7471B		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Mercury	0.641	0.176	0.800	0.799	97.2	97.0	1	75.0 - 125	0.136	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1834645-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.:
R4186968-2

LCS Sample / File ID:	R4186968-2 / 20250316165748	**SDG:**	L1834645
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2468217
Instrument ID:	CVAA10	**Dilution Factor:**	1
Analytical Method:	7471B	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Mercury	0.500	0.529		106		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4186968-3 / 20250316170306	**SDG:**	L1834645
OS Sample / File ID:	L1829230-25 / 20250316170027	**Analytical Batch:**	WG2468217
Lab File ID:	20250316170306	**Dilution Factor:**	5
Instrument ID:	CVAA10	**Matrix:**	Solid
Analytical Method:	7471B		

Analyte	OS Result (dry)	SD Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Mercury	0.176	0.132	25.0	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1834645-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 7471B

Matrix: Solid **Prep Method:** 7471A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Mercury	7439-97-6		253.70	0.0206	0.04

ANALYSIS LOG

SDG:	L1834645	**Analytical Method:**	7471B
Instrument ID:	CVAA10	**Calibration Start Date:**	03/16/25 15:03
Analytical Run:	031625CVAA10 S	**Calibration End Date:**	03/16/25 15:16

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	CVAA100316251500	20250316150045	03/16/25 15:00		
CAL	STD 0.2	20250316150322	03/16/25 15:03		
CAL	STD 0.4	20250316150600	03/16/25 15:06		
CAL	STD 1.0	20250316150838	03/16/25 15:08		
CAL	STD 2.0	20250316151116	03/16/25 15:11		
CAL	STD 5.0	20250316151355	03/16/25 15:13		
CAL	STD 10.0	20250316151632	03/16/25 15:16		
ICV	CVAA100316251523	20250316152302	03/16/25 15:23		
ICB	CVAA100316251525	20250316152540	03/16/25 15:25		
ICVLL	CVAA100316251533	20250316153331	03/16/25 15:33		
CCV	CVAA100316251634	20250316163457	03/16/25 16:34		
CCB	CVAA100316251637	20250316163734	03/16/25 16:37		
BLANK	R4186968-1	20250316165508	03/16/25 16:55	1	WG2468217
LCS	R4186968-2	20250316165748	03/16/25 16:57	1	WG2468217
OS	L1829230-25	20250316170027	03/16/25 17:00		
L1829230-25	L1829230-25	20250316170027	03/16/25 17:00	1	WG2468217
SD	R4186968-3	20250316170306	03/16/25 17:03	5	WG2468217
MS	R4186968-4	20250316170545	03/16/25 17:05	1	WG2468217
CCV	CVAA100316251708	20250316170824	03/16/25 17:08		
CCB	CVAA100316251711	20250316171102	03/16/25 17:11		
MSD	R4186968-5	20250316171338	03/16/25 17:13	1	WG2468217
L1829230-24	L1829230-24	20250316171617	03/16/25 17:16	1	WG2468217
MONTROSE_SCHOOL_DITCH_I_SO	L1834645-01	20250316171856	03/16/25 17:18	1	WG2468217
MONTROSE_SCHOOL_DRAINS_I_SO	L1834645-02	20250316172135	03/16/25 17:21	1	WG2468217
650_851_I_SO	L1834645-03	20250316172715	03/16/25 17:27	1	WG2468217
601_T_I_SO	L1834645-04	20250316172955	03/16/25 17:29	1	WG2468217
250_651_I_SO	L1834645-05	20250316173235	03/16/25 17:32	1	WG2468217
DAVIS_SCHOOL_DITCH_I_SO	L1834645-06	20250316173515	03/16/25 17:35	1	WG2468217
DAVIS_SCHOOL_DRAINS_I_SO	L1834645-07	20250316173754	03/16/25 17:37	1	WG2468217
DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	L1834645-08	20250316174033	03/16/25 17:40	1	WG2468217
CCV	CVAA100316251743	20250316174312	03/16/25 17:43		
CCB	CVAA100316251745	20250316174549	03/16/25 17:45		
DAVIS_SCHOOL_WPLAYGROUND_I_SO	L1834645-09	20250316174826	03/16/25 17:48	1	WG2468217
DAVIS_SCHOOL_TRACK_I_SO	L1834645-10	20250316175104	03/16/25 17:51	1	WG2468217
DAVIS_SCHOOL_DUP_I_SO	L1834645-11	20250316175343	03/16/25 17:53	1	WG2468217
CCV	CVAA100316251814	20250316181457	03/16/25 18:14		
CCB	CVAA100316251817	20250316181734	03/16/25 18:17		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	03/16/25 15:03
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/16/25 15:16
Analytical Method:	7471B	**Analytical Run:**	031625CVAA10 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0002	.0001558031	77.90	0.0004	.0003493894	87.30
File ID:		20250316150322			20250316150600	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	03/16/25 15:03
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/16/25 15:16
Analytical Method:	7471B	**Analytical Run:**	031625CVAA10 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0010	.001002466	100	0.0020	.002082764	104
File ID:		20250316150838			20250316151116	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	03/16/25 15:03
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/16/25 15:16
Analytical Method:	7471B	**Analytical Run:**	031625CVAA10 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0050	.005159308	103	0.01	.009906456	99.10
File ID:		20250316151355			20250316151632	

16A-IN

INITIAL CALIBRATION

SDG:	L1834645	**Calibration (begin) date/time:**	03/16/25 15:03
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/16/25 15:16
Analytical Method:	7471B	**Analytical Run:**	031625CVAA10 S

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
MERCURY	253.7	0	5	0.999699	17.95032	0.001009

Calibration Type

0 = Linear Regression

Weightage

5 = None

Sample ID: CALIBRATION BLANK Units: mg/kg
Analyzed: 03/16/25 15:00 Sequence: 1 Standard ID:

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	-0.000000000000000000008333333	0.0000005696053	0.00003827062	-0.00003884023

Sample ID: STD 0.2 Units: mg/kg
Analyzed: 03/16/25 15:03 Sequence: 2 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.003805258	0.003908149	0.003826410	0.003681216

Sample ID: STD 0.4 Units: mg/kg
Analyzed: 03/16/25 15:06 Sequence: 3 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.007280194	0.007477857	0.007217053	0.007145672

Sample ID: STD 1.0 Units: mg/kg
Analyzed: 03/16/25 15:08 Sequence: 4 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.01900313	0.01968101	0.01857238	0.01875600

Sample ID: STD 2.0 Units: mg/kg
Analyzed: 03/16/25 15:11 Sequence: 5 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.03839482	0.03952908	0.03856179	0.03709357

Sample ID: STD 5.0 Units: mg/kg
Analyzed: 03/16/25 15:13 Sequence: 6 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.09361978	0.09554733	0.09325324	0.09205877

Sample ID: STD 10.0 Units: mg/kg
Analyzed: 03/16/25 15:16 Sequence: 7 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.1788326	0.1804799	0.1781891	0.1778289

Sample ID: ICV Units: mg/kg
Analyzed: 03/16/25 15:23 Sequence: 8 Standard ID: 25C14191

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.09425152	0.005194501	0.005381401	0.005134639	0.005067462

Sample ID: ICB Units: mg/kg
Analyzed: 03/16/25 15:25 Sequence: 9

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00001324039	-0.00005544723	-0.00005216025	-0.00005788647	-0.00005629497

Sample ID: ICVLL Units: mg/kg
Analyzed: 03/16/25 15:33 Sequence: 12 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.004074983	0.0001708296	0.0001753941	0.0001748292	0.0001622654

Sample ID: CCV Units: mg/kg
Analyzed: 03/16/25 16:34 Sequence: 35 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.09175498	0.005055420	0.005175498	0.004987674	0.005003089

Sample ID: CCB Units: mg/kg
Analyzed: 03/16/25 16:37 Sequence: 36

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001425448	-0.00004824377	-0.00003468318	-0.00005278759	-0.00005726054

Sample ID: BLANK DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 16:55 Sequence: 42

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.000005443856	-0.00005588157	-0.00005869602	-0.00004896885	-0.00005997985

Sample ID: LCS DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 16:57 Sequence: 43

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05795386	0.003172384	0.003271008	0.003114061	0.003132082

Sample ID: L1829230-25 DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:00 Sequence: 44

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.01631321	0.0008526124	0.0008916775	0.0008345249	0.0008316347

Sample ID: SD DF: 5x Ref Sample ID: L1829230-25 Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:03 Sequence: 45

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.003303183	0.0001278331	0.0006630687	0.0006235613	0.0006308672

Sample ID: MS DF: 1x Ref Sample ID: L1829230-25 Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:05 Sequence: 46

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.07488144	0.004115408	0.004222171	0.004058921	0.004065131

Sample ID: CCV Units: mg/kg
Analyzed: 03/16/25 17:08 Sequence: 47 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.09197870	0.005067883	0.005176907	0.005004839	0.005021904

Sample ID: CCB Units: mg/kg
Analyzed: 03/16/25 17:11 Sequence: 48

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002162040	-0.00004414027	-0.00003464705	-0.00004859330	-0.00004918045

Sample ID: MSD DF: 1x Ref Sample ID: L1829230-25 Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:13 Sequence: 49

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.07478089	0.004109806	0.004191075	0.004057162	0.004081180

Sample ID: L1829230-24 DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:16 Sequence: 50

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03677173	0.001992342	0.002040310	0.001969034	0.001967682

Sample ID: L1834645-01 DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:18 Sequence: 51

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002672928	0.00009272210	0.0001044134	0.00008639818	0.00008735468

Sample ID: L1834645-02 DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:21 Sequence: 52

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002845656	0.0001023447	0.00009810989	0.00009131081	0.0001176133

Sample ID: L1834645-03 DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:27 Sequence: 53

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002044265	0.00005769974	0.00009722508	0.00004035434	0.00003551980

Sample ID: L1834645-04 DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:29 Sequence: 54

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002986458	0.0001101886	0.0001252699	0.0001053490	0.00009994694

Sample ID: L1834645-05 DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:32 Sequence: 55

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002078511	0.00005960755	0.00006154755	0.00006447932	0.00005279576

Sample ID: L1834645-06 DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:35 Sequence: 56

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001942621	0.00005203722	0.00005347084	0.00005467827	0.00004796257

Sample ID: L1834645-07 DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:37 Sequence: 57

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.003290054	0.0001271017	0.0001280713	0.0001293365	0.0001238974

Sample ID: L1834645-08 DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:40 Sequence: 58

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001953545	0.00005264577	0.00005175818	0.00005466016	0.00005151895

Sample ID: CCV Units: mg/kg
Analyzed: 03/16/25 17:43 Sequence: 59 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.09170305	0.005052527	0.005177967	0.005033116	0.004946499

Sample ID: CCB Units: mg/kg
Analyzed: 03/16/25 17:45 Sequence: 60

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002409324	-0.00004276267	-0.00003461444	-0.00004284960	-0.00005082397

Sample ID: L1834645-09 DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:48 Sequence: 61

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002604790	0.00008892619	0.00009404886	0.00007871395	0.00009401576

Sample ID: L1834645-10 DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:51 Sequence: 62

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001681310	0.00003747976	0.00003439845	0.00003684313	0.00004119769

Sample ID: L1834645-11 DF: 1x Batch: WG2468217 Units: mg/kg
Analyzed: 03/16/25 17:53 Sequence: 63

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002082842	0.00005984880	0.00006346507	0.00005302791	0.00006305341

Sample ID: CCV Units: mg/kg
Analyzed: 03/16/25 18:14 Sequence: 71 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.09177082	0.005056303	0.005167562	0.005009350	0.004991996

Sample ID: CCB Units: mg/kg
Analyzed: 03/16/25 18:17 Sequence: 72

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002399091	-0.00004281968	-0.00002579973	-0.00004836327	-0.00005429604

7471A SS HG Metals Prep Benchsheet

Batch: WG2468217

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1829230	WG2466939	BJM688	PREPREPBAL4	12-MAR-25
L1834645	WG2466977	BJM688	PREPREPBAL4	12-MAR-25
L1834756	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834758	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834759	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834760	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834761	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834780	WG2467815	CMW844	PREPREPBAL2	12-MAR-25

Analyst: NDL4057 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Hotblock ID:** HG2 **2min Cook Temp:** 95
15min KMNO4 HoldTime: 03/13/25 22:19:11 **Hotblock Time On:** 03/13/25 22:34:11 **Uncorrected Temp On:** 95 **Corrected Temp On:** 95
Hotblock Time Off: 03/13/25 23:04:11 **Uncorrected Temp Off:** 98 **Corrected Temp Off:** 98 **Thermometer Correction Factor:** 0.0 **Digestion Chips Lot #:** 25B02756
Prep Date: 03/13/25 17:31-17:35 **Prep End Date/Time:** 03/14/25 00:42 **Calibration and Instrument Stds:** 25C13020 **Method:** 7471A **SOP:** ENV-SOP-MTJL-0213
Thermometer ID#: 1042606 **Pipette Tip Lot#:** 24440172 **Cal and Stds Workgroup:** WG2467651 **Thermometer Location:** C6 **Pipette ID:** VU23217 **Sieve ID:** NA
Sieve Size: NA **Repeat Pipette ID:** 24B38914 **Repeat Pipette Tip Lot#:** N215100J

LCS/MS Spike: 25C07039 Amt. Used: 150 uL Exp. Date:03/14/25 **Aqua Regia:** 25C13021 Amt. Used: 2.50 mL Exp. Date:03/13/25
KMNO4: 25C12810 Amt. Used: 7.50 mL Exp. Date:03/19/25 **H8N2O6S:** 25C12815 Amt. Used: 3 mL Exp. Date:03/19/25 **SnCl:** 25C13023 mL Exp. Date:03/13/25
HCl: 25C13024 mL Exp. Date:03/13/25

Sample ID	Matrix	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Box ID	Review Analyst	Review Date
BLANK		0.30	50	RESIN PELLETS		SDG4113	03/14/25 00:42:12
LCS		0.30	50	RESIN PELLETS		SDG4113	03/14/25 00:42:12
MS(L1829230-25)		0.33	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
MSD(L1829230-25)		0.33	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
1. L1829230-24	SS	0.31	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
2. L1829230-25	SS	0.31	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
3. L1834645-01	SS	0.29	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
4. L1834645-02	SS	0.34	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
5. L1834645-03	SS	0.33	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
6. L1834645-04	SS	0.33	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
7. L1834645-05	SS	0.32	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
8. L1834645-06	SS	0.31	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
9. L1834645-07	SS	0.32	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
10. L1834645-08	SS	0.30	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
11. L1834645-09	SS	0.31	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
12. L1834645-10	SS	0.28	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
13. L1834645-11	SS	0.31	50	SOIL SAMPLE		SDG4113	03/14/25 00:42:12
14. L1834756-01	SS	0.33	50	SOIL SAMPLE	Wed-6/PP2 0312	SDG4113	03/14/25 00:42:12
15. L1834758-01	SS	0.28	50	SOIL SAMPLE	Wed-6/PP2 0312	SDG4113	03/14/25 00:42:12
16. L1834759-01	SS	0.30	50	SOIL SAMPLE	Wed-6/PP2 0312	SDG4113	03/14/25 00:42:12
17. L1834760-01	SS	0.28	50	SOIL SAMPLE	Wed-6/PP2 0312	SDG4113	03/14/25 00:42:12
18. L1834761-01	SS	0.31	50	SOIL SAMPLE	Wed-6/PP2 0312	SDG4113	03/14/25 00:42:12
19. L1834780-01	SS	0.33	50	SOIL SAMPLE	Wed-7/PP2 0313	SDG4113	03/14/25 00:42:12
20. L1834780-02	SS	0.30	50	SOIL SAMPLE	Wed-7/PP2 0313	SDG4113	03/14/25 00:42:12

Comments:

Reviewed By:SDG4113 on 03/14/25 00:42:12

9056A Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1834645-01	**SDG:**	L1834645
Client Sample ID:	MONTROSE_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	35.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/13/25 22:49
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.11 g
Total Solids (%):	70.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	15.1	J	11.8	71.5

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1834645-02	**SDG:**	L1834645
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	36.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/13/25 23:06
Dilution Factor:	1.02	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	4.91 g
Total Solids (%):	78.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		10.7	65.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
650_851_I_SO

Lab Sample ID:	L1834645-03	**SDG:**	L1834645
Client Sample ID:	650_851_I_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	37.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/13/25 23:23
Dilution Factor:	1.02	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.89 g
Total Solids (%):	73.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	13.7	J	11.5	69.9

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
601_T_I_SO

Lab Sample ID:	L1834645-04	**SDG:**	L1834645
Client Sample ID:	601_T_I_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	38.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/13/25 23:39
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.15 g
Total Solids (%):	71.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	12.0	J	11.5	69.6

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
250_651_I_SO

Lab Sample ID:	L1834645-05	**SDG:**	L1834645
Client Sample ID:	250_651_I_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	39.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/13/25 23:56
Dilution Factor:	1.03	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.85 g
Total Solids (%):	74.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	92.3		11.5	69.5

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1834645-06	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	40.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/14/25 00:13
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.02 g
Total Solids (%):	71.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	13.1	J	11.5	69.9

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1834645-07	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	41.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/14/25 00:30
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.06 g
Total Solids (%):	74.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	12.0	J	11.0	66.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO

Lab Sample ID:	L1834645-08	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	42.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/14/25 00:47
Dilution Factor:	1.04	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	4.82 g
Total Solids (%):	75.7	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	20.5	J	11.3	68.7

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_I_SO

Lab Sample ID:	L1834645-09	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	43.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/14/25 01:04
Dilution Factor:	1.01	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.93 g
Total Solids (%):	72.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	14.5	J	11.5	70.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_I_SO

Lab Sample ID:	L1834645-10	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_TRACK_I_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	44.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/14/25 01:21
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.12 g
Total Solids (%):	71.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	37.1	J	11.6	70.2

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_I_SO

Lab Sample ID:	L1834645-11	**SDG:**	L1834645
Client Sample ID:	DAVIS_SCHOOL_DUP_I_SO	**Collected Date/Time:**	03/10/25 17:00
Lab File ID:	35.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 21:50
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.05 g
Total Solids (%):	75.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		10.9	66.3

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186441-1	**SDG:**	L1834645
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	17.0000.txt	**Received Date/Time:**	_____
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 09:51
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/13/25 17:46
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187262-1	**SDG:**	L1834645
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	16.0000.txt	**Received Date/Time:**	_____
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:12
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 16:27
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186441-2	**SDG:**	L1834645
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	18.0000.txt	**Received Date/Time:**	_____
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 09:51
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/13/25 18:02
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	186		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186441-3	**SDG:**	L1834645
Client Sample ID:	DUP	**Collected Date/Time:**	02/25/25 13:00
Lab File ID:	20.0000.txt	**Received Date/Time:**	03/06/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/13/25 18:36
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.98 g
Total Solids (%):	96.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	233		8.54	51.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187262-2	**SDG:**	L1834645
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	17.0000.txt	**Received Date/Time:**	_____
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:12
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 16:44
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	221		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186441-6	**SDG:**	L1834645
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 13:20
Lab File ID:	32.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/13/25 21:58
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.19 g
Total Solids (%):	75.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	19300	E	10.9	65.9

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187262-3	**SDG:**	L1834645
Client Sample ID:	DUP	**Collected Date/Time:**	02/21/25 08:47
Lab File ID:	24.0000.txt	**Received Date/Time:**	02/24/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 18:42
Dilution Factor:	1.02	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.92 g
Total Solids (%):	83.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	10.8	J P1	10.1	61.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187262-6	**SDG:**	L1834645
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 17:00
Lab File ID:	36.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 22:07
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.15 g
Total Solids (%):	75.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	U		10.9	66.3

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186441-4	**SDG:**	L1834645
Client Sample ID:	MS	**Collected Date/Time:**	02/25/25 13:00
Lab File ID:	21.0000.txt	**Received Date/Time:**	03/06/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/13/25 18:53
Dilution Factor:	1.01	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.95 g
Total Solids (%):	96.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	424		8.62	52.3

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187262-4	**SDG:**	L1834645
Client Sample ID:	MS	**Collected Date/Time:**	02/21/25 08:47
Lab File ID:	25.0000.txt	**Received Date/Time:**	02/24/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 18:59
Dilution Factor:	1.02	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.90 g
Total Solids (%):	83.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	269		10.1	61.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186441-5	**SDG:**	L1834645
Client Sample ID:	MSD	**Collected Date/Time:**	02/25/25 13:00
Lab File ID:	22.0000.txt	**Received Date/Time:**	03/06/25 09:00
Instrument ID:	IC-8	**Preparation Date/Time:**	03/13/25 14:44
Analytical Batch:	WG2468113	**Analysis Date/Time:**	03/13/25 19:09
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.98 g
Total Solids (%):	96.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	442		8.54	51.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187262-5	**SDG:**	L1834645
Client Sample ID:	MSD	**Collected Date/Time:**	02/21/25 08:47
Lab File ID:	26.0000.txt	**Received Date/Time:**	02/24/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 19:15
Dilution Factor:	1.03	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	4.88 g
Total Solids (%):	83.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	267		10.2	62.0

CALIBRATION VERIFICATION

SDG:	L1834645	**Calibration (begin) date/time:**	02/17/25 17:41
Instrument ID:	IC-8	**Calibration (end) date/time:**	02/17/25 19:22
Analytical Method:	9056A	**Analytical Run:**	021725
Concentration Units:	mg/l		

SSCV

Sample ID: IC-80217251939

Analyte	True	Found	%R	%RSD
BROMIDE	40	36.7082	91.80	
CHLORATE	2.50	1.8473	73.90	
CHLORIDE	40	38.0811	95.20	
FLUORIDE	8	8.2281	103	
NITRATE	8	8.4438	106	
NITRITE	8	8.4309	105	
PHOSPHATE,ORTHO	8	8.1565	102	
SULFATE	40	38.3528	95.90	

SSCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834645	**Calibration (begin) date/time:**	02/17/25 17:41
Instrument ID:	IC-8	**Calibration (end) date/time:**	02/17/25 19:22
Analytical Method:	9056A	**Analytical Run:**	021825
Concentration Units:	mg/l		

SSCV

Sample ID: IC-80217251939-2

Analyte	True	Found	%R	%RSD
BROMIDE	40	36.7082	91.80	
CHLORATE	2.50	1.8473	73.90	
CHLORIDE	40	38.0811	95.20	
FLUORIDE	8	8.2281	103	
NITRATE	8	8.4438	106	
NITRITE	8	8.4309	105	
PHOSPHATE,ORTHO	8	8.1565	102	
SULFATE	40	38.3528	95.90	

SSCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834645	**Calibration (begin) date/time:**	02/17/25 17:41
Instrument ID:	IC-8	**Calibration (end) date/time:**	02/17/25 19:22
Analytical Method:	9056A	**Analytical Run:**	031325
Concentration Units:	mg/l		

		ICV				**CCV**				**CCV**			
Sample ID:		IC-80313251557				IC-80313252215				IC-80314250138			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
SULFATE	50	50.4565	101		50	50.7894	102		50	50.4562	101	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834645	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	030925
Concentration Units:	mg/l		

SSCV

Sample ID: IC-110309250627-2

Analyte	True	Found	%R	%RSD
BROMIDE	40	39.575	98.90	
CHLORATE	2.50	2.3836	95.30	
CHLORIDE	40	39.9293	99.80	
FLUORIDE	8	7.5803	94.80	
NITRATE	8	8.0103	100	
NITRITE	8	8.0878	101	
PHOSPHATE,ORTHO	8	0.0000	0	
SULFATE	40	40.9125	102	

SSCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1834645	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525
Concentration Units:	mg/l		

	SSCV				**ICV**				**CCV**			
Sample ID:	IC-110309250627				IC-110315251046				IC-110315251701			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
SULFATE	40	40.9125	102		50	49.9212	99.80		50	49.9267	99.90	

SSCV Limits: 90 - 110 ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834645	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525
Concentration Units:	mg/l		

		CCV				**CCV**		
Sample ID:		IC-110315252113				IC-110316250056		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
SULFATE	50	49.6688	99.30		50	49.3445	98.70	

SSCV Limits: 90 - 110 ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1834645	**Calibration (begin) date/time:**	02/17/25 17:41
Instrument ID:	IC-8	**Calibration (end) date/time:**	02/17/25 19:22
Analytical Method:	9056A	**Analytical Run:**	021725

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	10.0000.txt	
Analyte	mg/l	
BROMIDE	0.0000	U
CHLORATE	0.0000	U
CHLORIDE	0.0000	U
FLUORIDE	0.0000	U
NITRATE	0.0000	U
NITRITE	0.0000	U
PHOSPHATE,ORTHO	0.0000	U
SULFATE	0.0000	U

SDG:	L1834645	**Calibration (begin) date/time:**	02/17/25 17:41
Instrument ID:	IC-8	**Calibration (end) date/time:**	02/17/25 19:22
Analytical Method:	9056A	**Analytical Run:**	021825

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	10.0000.txt-2	
Analyte	mg/l	
BROMIDE	0.0000	U
CHLORATE	0.0000	U
CHLORIDE	0.0000	U
FLUORIDE	0.0000	U
NITRATE	0.0000	U
NITRITE	0.0000	U
PHOSPHATE,ORTHO	0.0000	U
SULFATE	0.0000	U

SDG:	L1834645	**Calibration (begin) date/time:**	02/17/25 17:41
Instrument ID:	IC-8	**Calibration (end) date/time:**	02/17/25 19:22
Analytical Method:	9056A	**Analytical Run:**	031325

	Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
	File ID:	17.0000.txt		34.0000.txt		46.0000.txt	
Analyte		mg/kg		mg/l		mg/l	
SULFATE		U		0.0000	U	0.0000	U

SDG:	L1834645	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525

	Sample ID:	**ICB Result**	**ICB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
	File ID:	11.0000.txt		16.0000.txt		19.0000.txt		34.0000.txt	
Analyte		mg/l		mg/kg		mg/l		mg/l	
SULFATE		0.0000	U	U		0.0000	U	0.0000	U

SDG:	L1834645	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525

	Sample ID:	**CCB Result**	**CCB Qual**
	File ID:	47.0000.txt	
Analyte		mg/l	
SULFATE		0.0000	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834645-01,02,03,04,05,06,07,08,09,10

SAMPLE NO.:
R4186441-4
R4186441-5

MS Sample / File ID:	R4186441-4 / 21.0000.txt	**SDG:**	L1834645
MSD Sample / File ID:	R4186441-5 / 22.0000.txt	**Analytical Batch:**	WG2468113
OS Sample / File ID:	L1832871-01 / 19.0000.txt	**Matrix:**	Solid
Instrument ID:	IC-8		
Analytical Method:	9056A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Sulfate	207	248	424	442	84.9	93.7	1.01	80.0 - 120	4.21	15

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834645-11

SAMPLE NO.:
R4187262-4
R4187262-5

MS Sample / File ID:	R4187262-4 / 25.0000.txt	**SDG:**	L1834645
MSD Sample / File ID:	R4187262-5 / 26.0000.txt	**Analytical Batch:**	WG2468135
OS Sample / File ID:	L1829230-04 / 23.0000.txt	**Matrix:**	Solid
Instrument ID:	IC-11		
Analytical Method:	9056A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Sulfate	241	U	269	267	112	111	1.02	80.0 - 120	0.841	15

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4186441-3 / 20.0000.txt	**SDG:**	L1834645
OS Sample / File ID:	L1832871-01 / 19.0000.txt	**Analytical Batch:**	WG2468113
Instrument ID:	IC-8	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Sulfate	248	233	6.26	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4186441-6 / 32.0000.txt	**SDG:**	L1834645
OS Sample / File ID:	L1834372-01 / 31.0000.txt	**Analytical Batch:**	WG2468113
Instrument ID:	IC-8	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
			%	%
Sulfate	19300	19300	0.264	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187262-3 / 24.0000.txt	**SDG:**	L1834645
OS Sample / File ID:	L1829230-04 / 23.0000.txt	**Analytical Batch:**	WG2468135
Instrument ID:	IC-11	**Dilution Factor:**	1.02
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Sulfate	U	10.8	200*	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187262-6 / 36.0000.txt	**SDG:**	L1834645
OS Sample / File ID:	L1834645-11 / 35.0000.txt	**Analytical Batch:**	WG2468135
Instrument ID:	IC-11	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Sulfate	U	U	0.000	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1834645-01,02,03,04,05,06,07,08,09,10

SAMPLE NO.:
R4186441-2

LCS Sample / File ID:	R4186441-2 / 18.0000.txt	**SDG:**	L1834645
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2468113
Instrument ID:	IC-8	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Sulfate	200	186		92.8		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1834645-11

SAMPLE NO.:
R4187262-2

LCS Sample / File ID:	R4187262-2 / 17.0000.txt	**SDG:**	L1834645
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2468135
Instrument ID:	IC-11	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Sulfate	200	221		110		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1834645-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 9056A

Matrix: Solid **Prep Method:** 9056

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Sulfate	14808-79-8			8.24	50

ANALYSIS LOG

SDG:	L1834645	**Analytical Method:**	9056A
Instrument ID:	IC-8	**Calibration Start Date:**	_____
Analytical Run:	021725	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	CAL1	02.0000.TXT	02/17/25 17:41		
CAL	CAL2	03.0000.TXT	02/17/25 17:57		
CAL	CAL3	04.0000.TXT	02/17/25 18:14		
CAL	CAL4	05.0000.TXT	02/17/25 18:31		
CAL	CAL5	06.0000.TXT	02/17/25 18:48		
CAL	CAL6	07.0000.TXT	02/17/25 19:05		
CAL	CAL7	08.0000.TXT	02/17/25 19:22		
SSCV	IC-80217251939	09.0000.txt	02/17/25 19:39		
ICB	IC-80217251956	10.0000.txt	02/17/25 19:56		

ANALYSIS LOG

SDG:	L1834645	**Analytical Method:**	9056A
Instrument ID:	IC-8	**Calibration Start Date:**	_____
Analytical Run:	021825	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
SSCV	IC-80217251939-2	09.0000.txt-2	02/17/25 19:39		
ICB	IC-80217251956-2	10.0000.txt-2	02/17/25 19:56		

ANALYSIS LOG

SDG:	L1834645	**Analytical Method:**	9056A
Instrument ID:	IC-8	**Calibration Start Date:**	02/17/25 17:41
Analytical Run:	031325	**Calibration End Date:**	02/17/25 19:22

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
RL	IC-80313251202	14.0000.txt	03/13/25 12:02		
ICV	IC-80313251557	15.0000.txt	03/13/25 15:57		
BLANK	R4186441-1	17.0000.txt	03/13/25 17:46	1	WG2468113
LCS	R4186441-2	18.0000.txt	03/13/25 18:02	1	WG2468113
OS	L1832871-01	19.0000.txt	03/13/25 18:19		
L1832871-01	L1832871-01	19.0000.txt	03/13/25 18:19	1.01	WG2468113
DUP	R4186441-3	20.0000.txt	03/13/25 18:36	1	WG2468113
MS	R4186441-4	21.0000.txt	03/13/25 18:53	1.01	WG2468113
MSD	R4186441-5	22.0000.txt	03/13/25 19:09	1	WG2468113
L1832871-02	L1832871-02	23.0000.txt	03/13/25 19:26	1.01	WG2468113
L1832871-03	L1832871-03	24.0000.txt	03/13/25 19:43	1	WG2468113
L1832871-04	L1832871-04	25.0000.txt	03/13/25 20:00	1	WG2468113
L1832871-05	L1832871-05	26.0000.txt	03/13/25 20:17	1	WG2468113
L1832871-06	L1832871-06	27.0000.txt	03/13/25 20:34	1	WG2468113
L1832871-07	L1832871-07	28.0000.txt	03/13/25 20:51	1	WG2468113
L1832871-08	L1832871-08	29.0000.txt	03/13/25 21:08	1	WG2468113
L1832871-09	L1832871-09	30.0000.txt	03/13/25 21:24	1	WG2468113
OS	L1834372-01	31.0000.txt	03/13/25 21:41		
L1834372-01	L1834372-01	31.0000.txt	03/13/25 21:41	1	WG2468113
DUP	R4186441-6	32.0000.txt	03/13/25 21:58	1	WG2468113
CCV	IC-80313252215	33.0000.txt	03/13/25 22:15		
CCB	IC-80313252232	34.0000.txt	03/13/25 22:32		
MONTROSE_SCHOOL_DITCH_I_SO	L1834645-01	35.0000.txt	03/13/25 22:49	1	WG2468113
MONTROSE_SCHOOL_DRAINS_I_SO	L1834645-02	36.0000.txt	03/13/25 23:06	1.02	WG2468113
650_851_I_SO	L1834645-03	37.0000.txt	03/13/25 23:23	1.02	WG2468113
601_T_I_SO	L1834645-04	38.0000.txt	03/13/25 23:39	1	WG2468113
250_651_I_SO	L1834645-05	39.0000.txt	03/13/25 23:56	1.03	WG2468113
DAVIS_SCHOOL_DITCH_I_SO	L1834645-06	40.0000.txt	03/14/25 00:13	1	WG2468113
DAVIS_SCHOOL_DRAINS_I_SO	L1834645-07	41.0000.txt	03/14/25 00:30	1	WG2468113
DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	L1834645-08	42.0000.txt	03/14/25 00:47	1.04	WG2468113
DAVIS_SCHOOL_WPLAYGROUND_I_SO	L1834645-09	43.0000.txt	03/14/25 01:04	1.01	WG2468113
DAVIS_SCHOOL_TRACK_I_SO	L1834645-10	44.0000.txt	03/14/25 01:21	1	WG2468113
CCV	IC-80314250138	45.0000.txt	03/14/25 01:38		
CCB	IC-80314250154	46.0000.txt	03/14/25 01:54		

ANALYSIS LOG

SDG:	L1834645	**Analytical Method:**	9056A
Instrument ID:	IC-11	**Calibration Start Date:**	_____
Analytical Run:	030925	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	CAL 1	3.0000.TXT	03/09/25 04:29		
CAL	CAL 2	4.0000.TXT	03/09/25 04:46		
CAL	CAL 3	5.0000.TXT	03/09/25 05:03		
CAL	CAL 4	6.0000.TXT	03/09/25 05:19		
CAL	CAL 5	7.0000.TXT	03/09/25 05:36		
CAL	CAL 6	8.0000.TXT	03/09/25 05:53		
CAL	CAL 7	9.0000.TXT	03/09/25 06:10		
SSCV	IC-110309250627-2	10.0000.txt-2	03/09/25 06:27		

ANALYSIS LOG

SDG:	L1834645	**Analytical Method:**	9056A
Instrument ID:	IC-11	**Calibration Start Date:**	03/09/25 04:29
Analytical Run:	031525	**Calibration End Date:**	03/09/25 06:10

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
SSCV	IC-110309250627	10.0000.txt	03/09/25 06:27		
ICB	IC-110309250644	11.0000.txt	03/09/25 06:44		
ICV	IC-110315251046	14.0000.txt	03/15/25 10:46		
RL	IC-110315251103	15.0000.txt	03/15/25 11:03		
BLANK	R4187262-1	16.0000.txt	03/15/25 16:27	1	WG2468135
LCS	R4187262-2	17.0000.txt	03/15/25 16:44	1	WG2468135
CCV	IC-110315251701	18.0000.txt	03/15/25 17:01		
CCB	IC-110315251717	19.0000.txt	03/15/25 17:17		
L1829230-01	L1829230-01	20.0000.txt	03/15/25 17:34	1.01	WG2468135
L1829230-02	L1829230-02	21.0000.txt	03/15/25 17:51	1.01	WG2468135
L1829230-03	L1829230-03	22.0000.txt	03/15/25 18:08	1.03	WG2468135
OS	L1829230-04	23.0000.txt	03/15/25 18:25		
L1829230-04	L1829230-04	23.0000.txt	03/15/25 18:25	1.02	WG2468135
DUP	R4187262-3	24.0000.txt	03/15/25 18:42	1.02	WG2468135
MS	R4187262-4	25.0000.txt	03/15/25 18:59	1.02	WG2468135
MSD	R4187262-5	26.0000.txt	03/15/25 19:15	1.03	WG2468135
L1829230-05	L1829230-05	27.0000.txt	03/15/25 19:32	1	WG2468135
L1829230-21	L1829230-21	28.0000.txt	03/15/25 19:49	1	WG2468135
L1829230-22	L1829230-22	29.0000.txt	03/15/25 20:06	1	WG2468135
L1829230-23	L1829230-23	30.0000.txt	03/15/25 20:23	1	WG2468135
L1829230-24	L1829230-24	31.0000.txt	03/15/25 20:40	1	WG2468135
L1829230-25	L1829230-25	32.0000.txt	03/15/25 20:57	1.04	WG2468135
CCV	IC-110315252113	33.0000.txt	03/15/25 21:13		
CCB	IC-110315252134	34.0000.txt	03/15/25 21:34		
DAVIS_SCHOOL_DUP_I_SO	L1834645-11	35.0000.txt	03/15/25 21:50	1	WG2468135
DUP	R4187262-6	36.0000.txt	03/15/25 22:07	1	WG2468135
L1834664-01	L1834664-01	37.0000.txt	03/15/25 22:24	1	WG2468135
L1834664-02	L1834664-02	38.0000.txt	03/15/25 22:41	1	WG2468135
L1834664-03	L1834664-03	39.0000.txt	03/15/25 22:58	1	WG2468135
L1834664-04	L1834664-04	40.0000.txt	03/15/25 23:15	1.01	WG2468135
L1834664-05	L1834664-05	41.0000.txt	03/15/25 23:32	1	WG2468135
L1834664-06	L1834664-06	42.0000.txt	03/15/25 23:48	1	WG2468135
L1834664-07	L1834664-07	43.0000.txt	03/16/25 00:05	1	WG2468135
L1834664-08	L1834664-08	44.0000.txt	03/16/25 00:22	1	WG2468135
L1834664-09	L1834664-09	45.0000.txt	03/16/25 00:39	1	WG2468135
CCV	IC-110316250056	46.0000.txt	03/16/25 00:56		
CCB	IC-110316250113	47.0000.txt	03/16/25 01:13		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	02/17/25 17:41
Instrument ID:	IC-8	**Calibration (end) date/time:**	02/17/25 19:22
Analytical Method:	9056A	**Analytical Run:**	031325

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	1	1.2455	125	5	4.6888	93.80
File ID:		03.0000.TXT			04.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	02/17/25 17:41
Instrument ID:	IC-8	**Calibration (end) date/time:**	02/17/25 19:22
Analytical Method:	9056A	**Analytical Run:**	031325

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	10	8.9909	89.90	25	22.8375	91.40
File ID:		05.0000.TXT			06.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	02/17/25 17:41
Instrument ID:	IC-8	**Calibration (end) date/time:**	02/17/25 19:22
Analytical Method:	9056A	**Analytical Run:**	031325

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	50	47.1813	94.40	100	106.056	106
File ID:		07.0000.TXT			08.0000.TXT	

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	1	.8171	81.70	5	5.3854	108
File ID:		4.0000.TXT			5.0000.TXT	

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	10	10.8328	108	25	26.1397	105
File ID:		6.0000.TXT			7.0000.TXT	

INITIAL CALIBRATION RECOVERY

SDG:	L1834645	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	50	49.8689	99.70	100	97.9562	98
File ID:		8.0000.TXT			9.0000.TXT	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1834645	**Calibration (begin) date/time:**	02/17/25 17:41
Instrument ID:	IC-8	**Calibration (end) date/time:**	02/17/25 19:22
Analytical Method:	9056A	**Analytical Run:**	031325

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
SULFATE	5	1	0.9973			0.106	-0.043	24.931

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1834645	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
SULFATE	5	1	0.99931			0.107	0.091	9.515

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

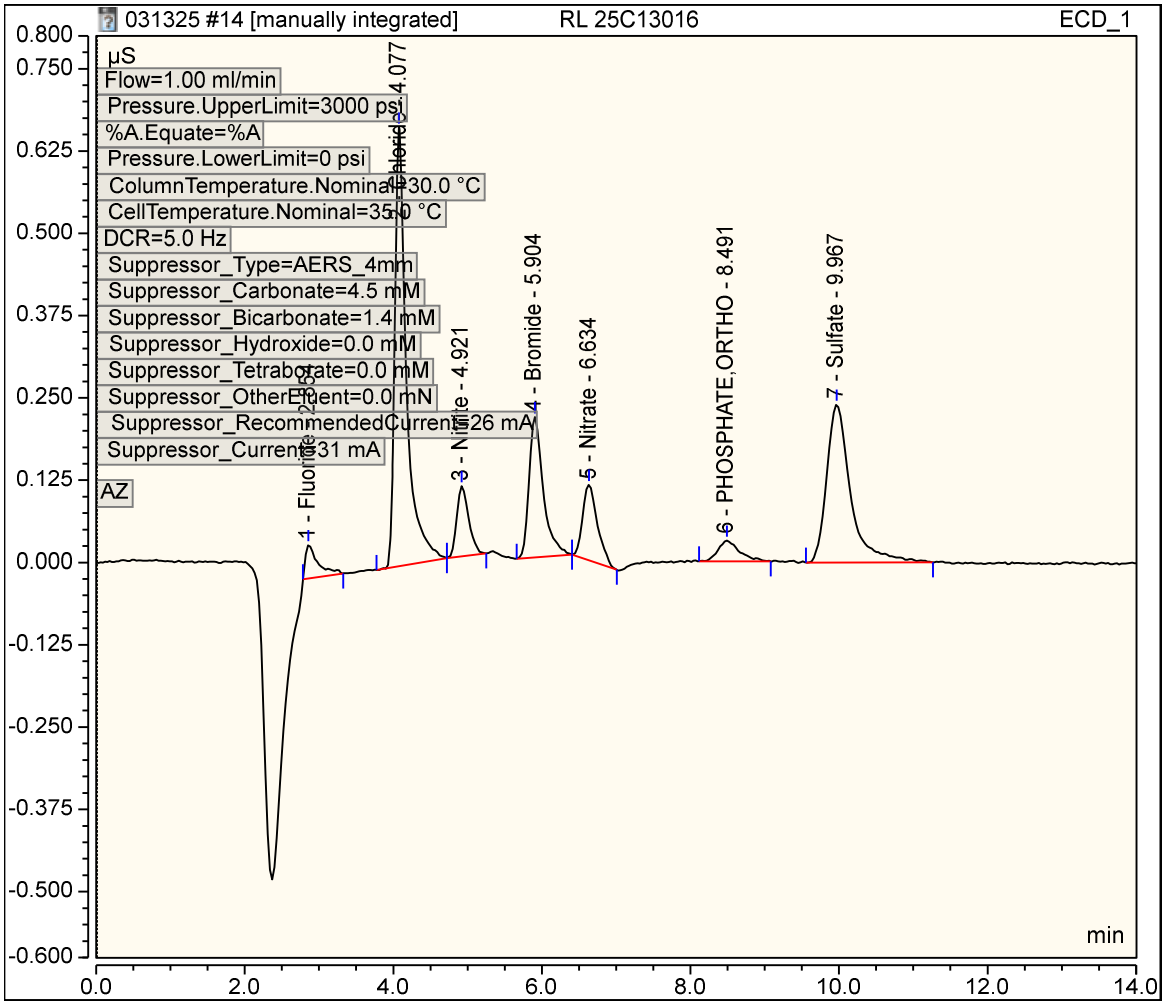
REPORTING LEVEL VERIFICATION
INORGANICS

SDG:	L1834645	**Calibration (begin) date/time:**	02/17/25 17:41
Instrument ID:	IC-8	**Calibration (end) date/time:**	02/17/25 19:22
Lab File ID:	14.0000.txt	**Analysis date/time:**	03/13/25 12:02
Analytical Method:	9056A	**Sample ID:**	RL

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
SULFATE	1	1.2557	126	50 - 150

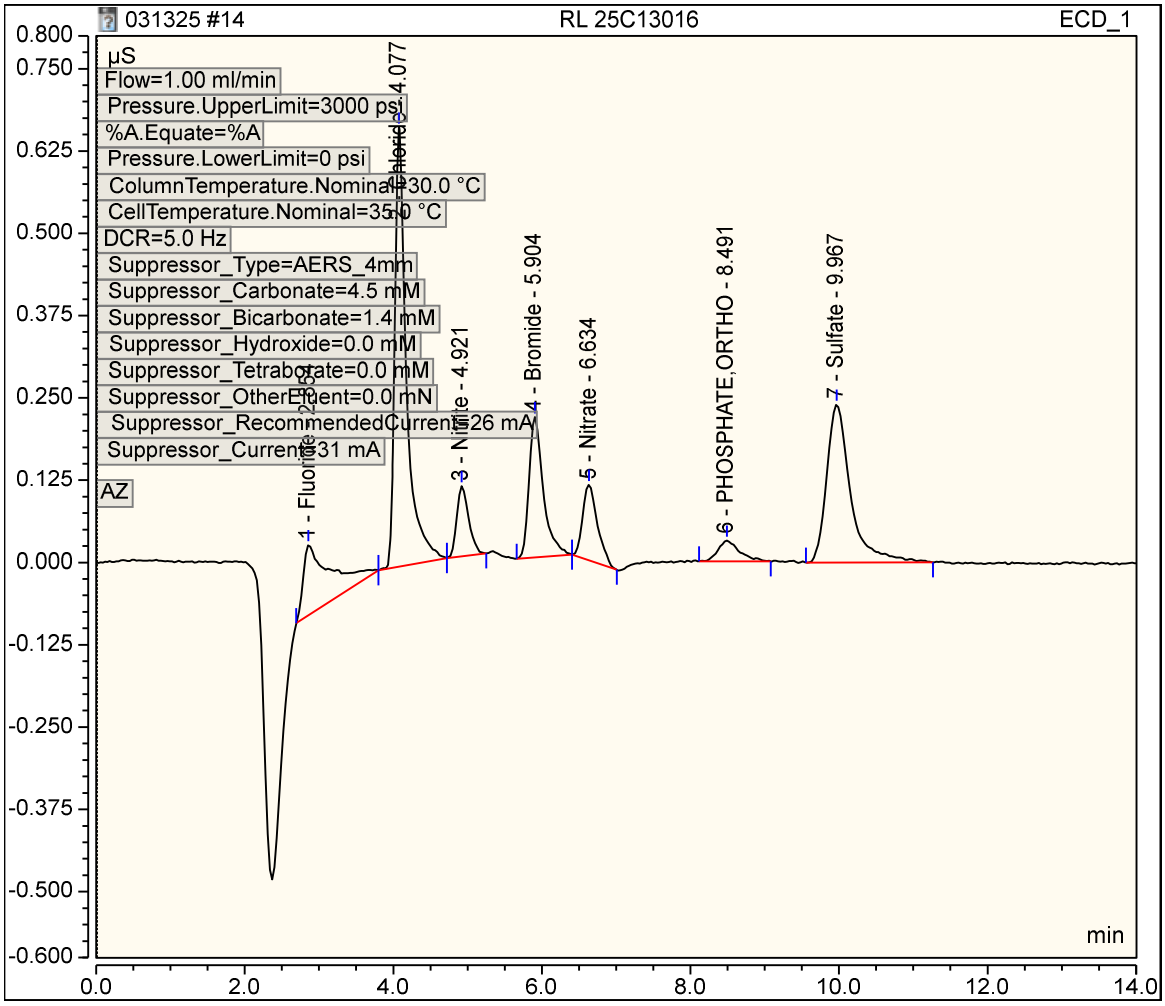
Sample Name:	**RL 25C13016**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**BA: ZSA3747 03/14/25**
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 12:02**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.85	Fluoride	BMB*	0.010	0.051	0.1294
2	4.08	Chloride	BMB*	0.121	0.666	1.3712
3	4.92	Nitrite	BMB	0.020	0.106	0.1392
4	5.90	Bromide	BMB	0.047	0.213	1.2638
5	6.63	Nitrate	BMB	0.026	0.115	0.1308
6	8.49	PHOSPHATE,ORTHO	BMB	0.011	0.032	0.0911
7	9.97	Sulfate	BMB	0.089	0.240	1.2557
		TOTAL:		0.32	1.42	4.38



Sample Name:	**RL 25C13016**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 12:02**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.85	Fluoride	BMB	0.044	0.107	0.3194
2	4.08	Chloride	BMB	0.121	0.667	1.3737
3	4.92	Nitrite	BMB	0.020	0.106	0.1392
4	5.90	Bromide	BMB	0.047	0.213	1.2638
5	6.63	Nitrate	BMB	0.026	0.115	0.1308
6	8.49	PHOSPHATE,ORTHO	BMB	0.011	0.032	0.0911
7	9.97	Sulfate	BMB	0.089	0.240	1.2557
		TOTAL:		0.36	1.48	4.57



17-IN

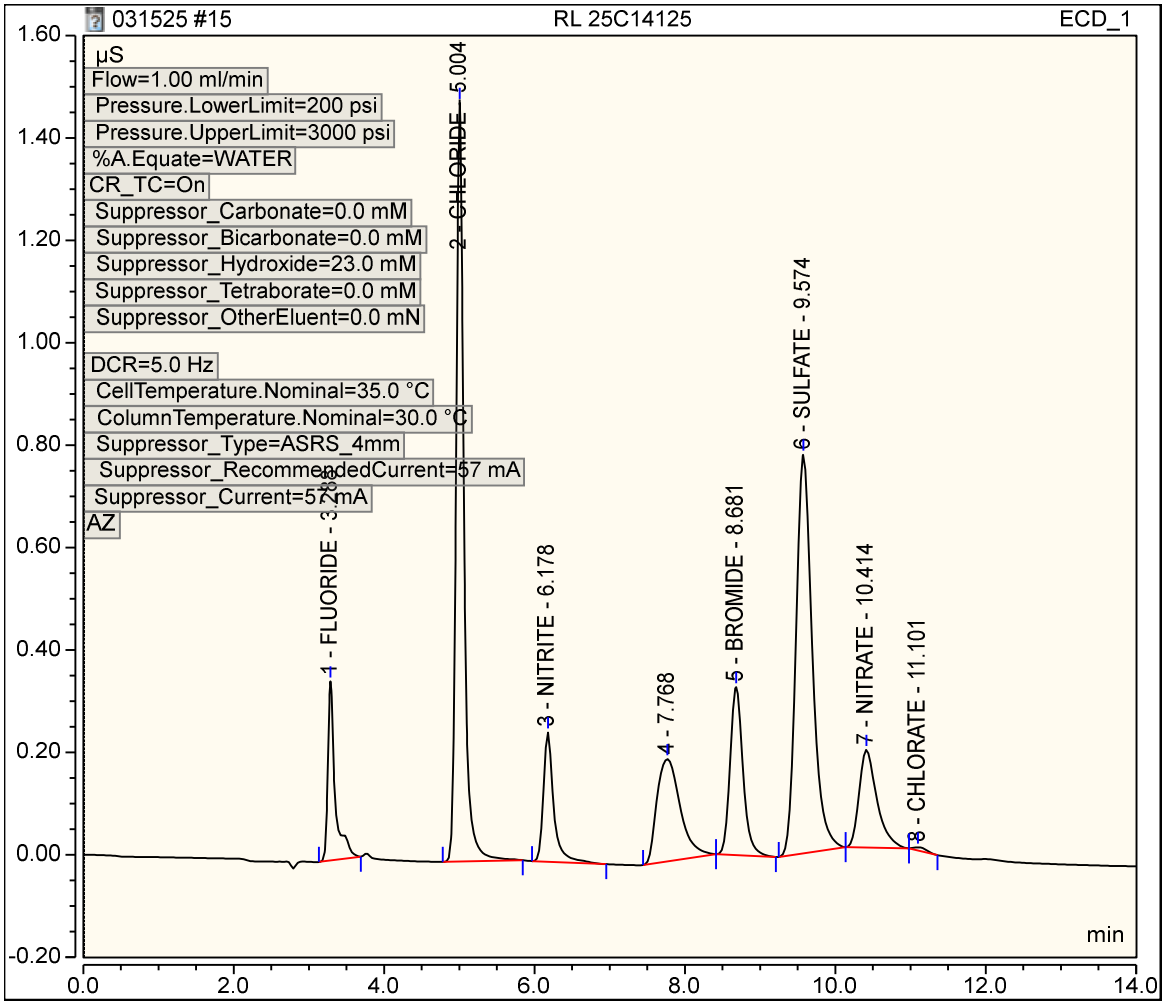
REPORTING LEVEL VERIFICATION
INORGANICS

SDG:	L1834645	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Lab File ID:	15.0000.txt	**Analysis date/time:**	03/15/25 11:03
Analytical Method:	9056A	**Sample ID:**	RL

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
SULFATE	1	0.9848	98.50	50 - 150

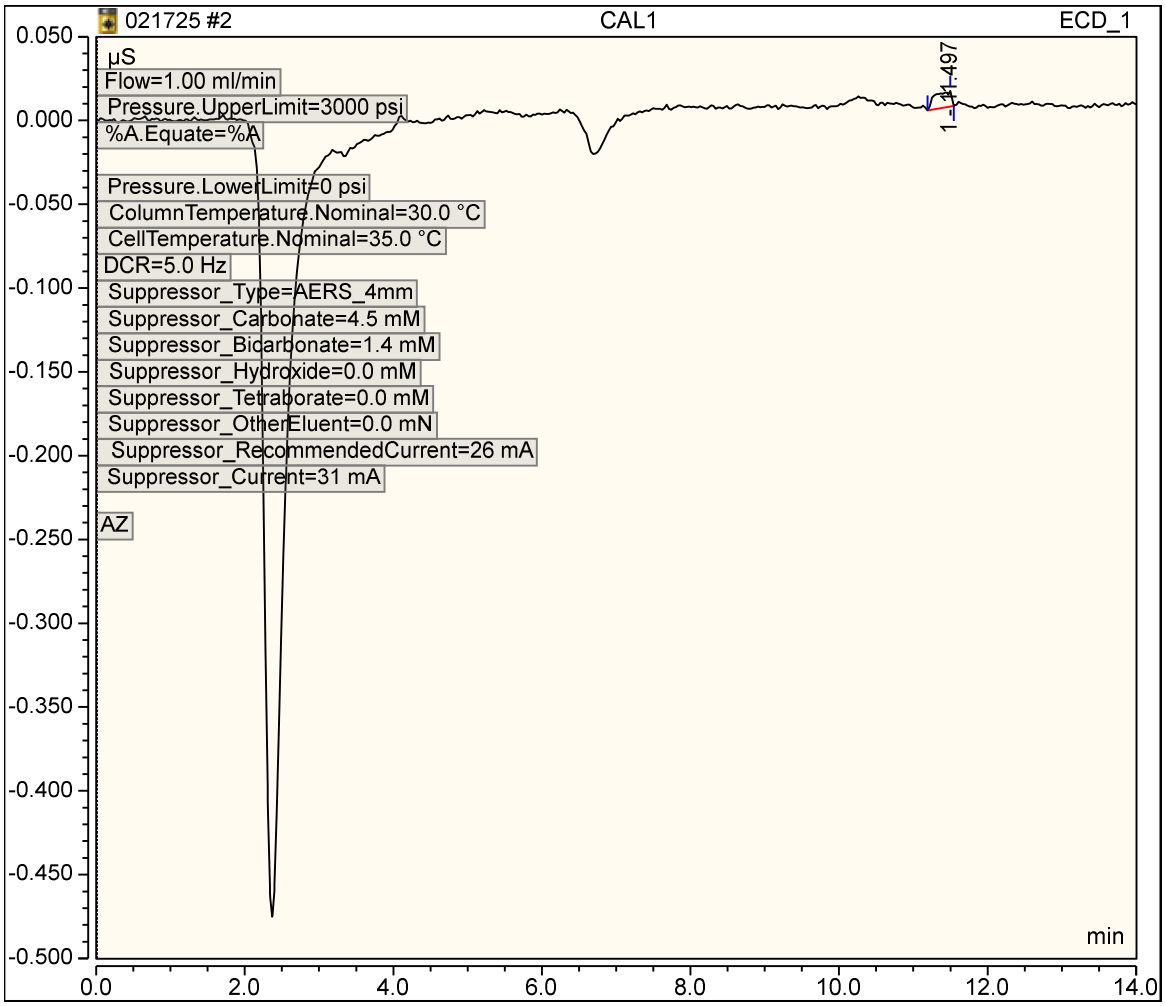
Sample Name:	**RL 25C14125**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 11:03**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMB	0.039	0.350	0.0984
2	5.00	CHLORIDE	BMB	0.179	1.482	1.1402
3	6.18	NITRITE	BMB	0.040	0.253	0.0815
5	8.68	BROMIDE	bMB	0.065	0.328	0.9331
6	9.57	SULFATE	BMb	0.197	0.779	0.9848
7	10.41	NITRATE	bMB	0.052	0.191	0.1241
8	11.10	CHLORATE	BMB	0.001	0.006	0.0499
		TOTAL:		0.57	3.39	3.41



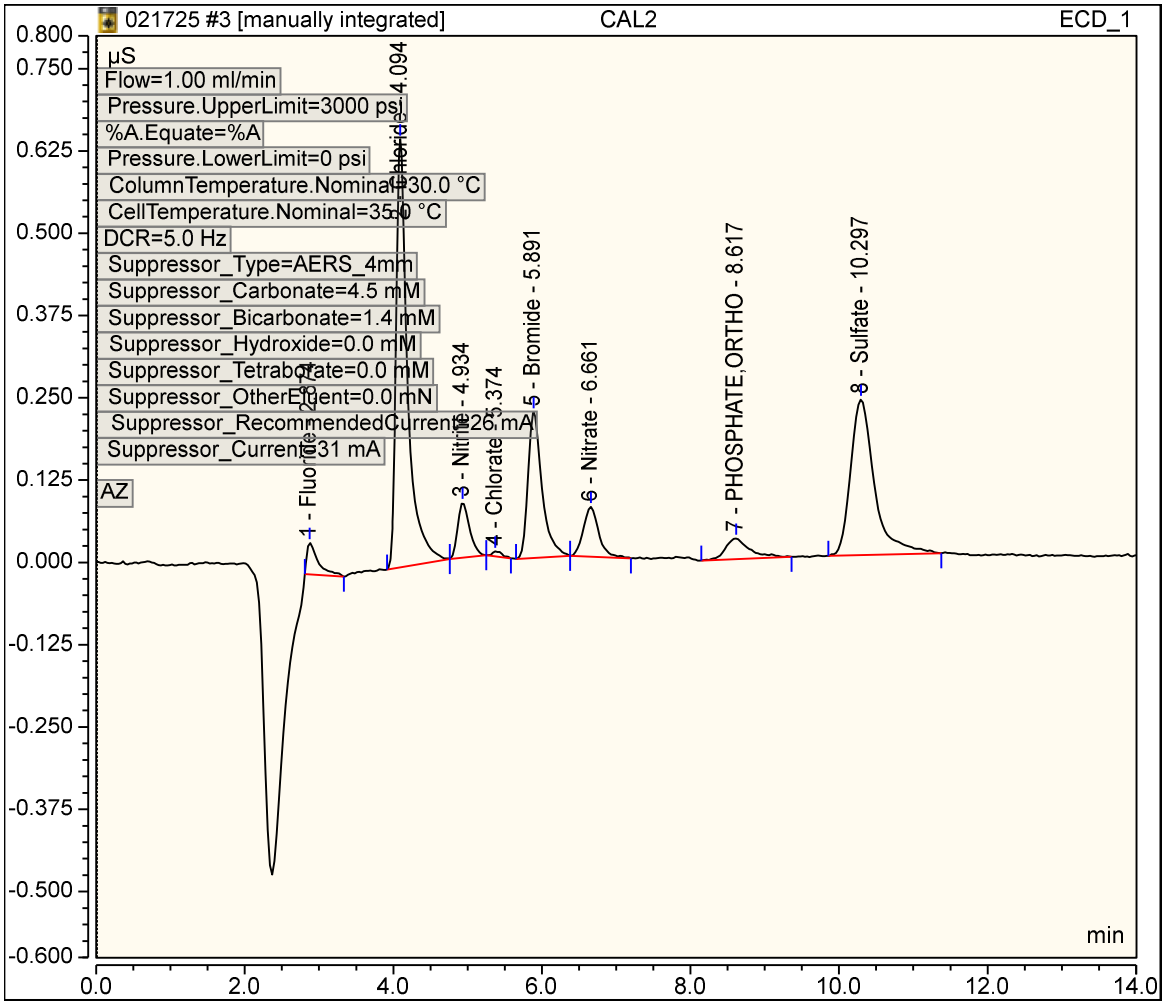
Sample Name:	**CAL1**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**25B05339**
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 17:41**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount n.a.
		TOTAL:		0.00	0.00	0.00



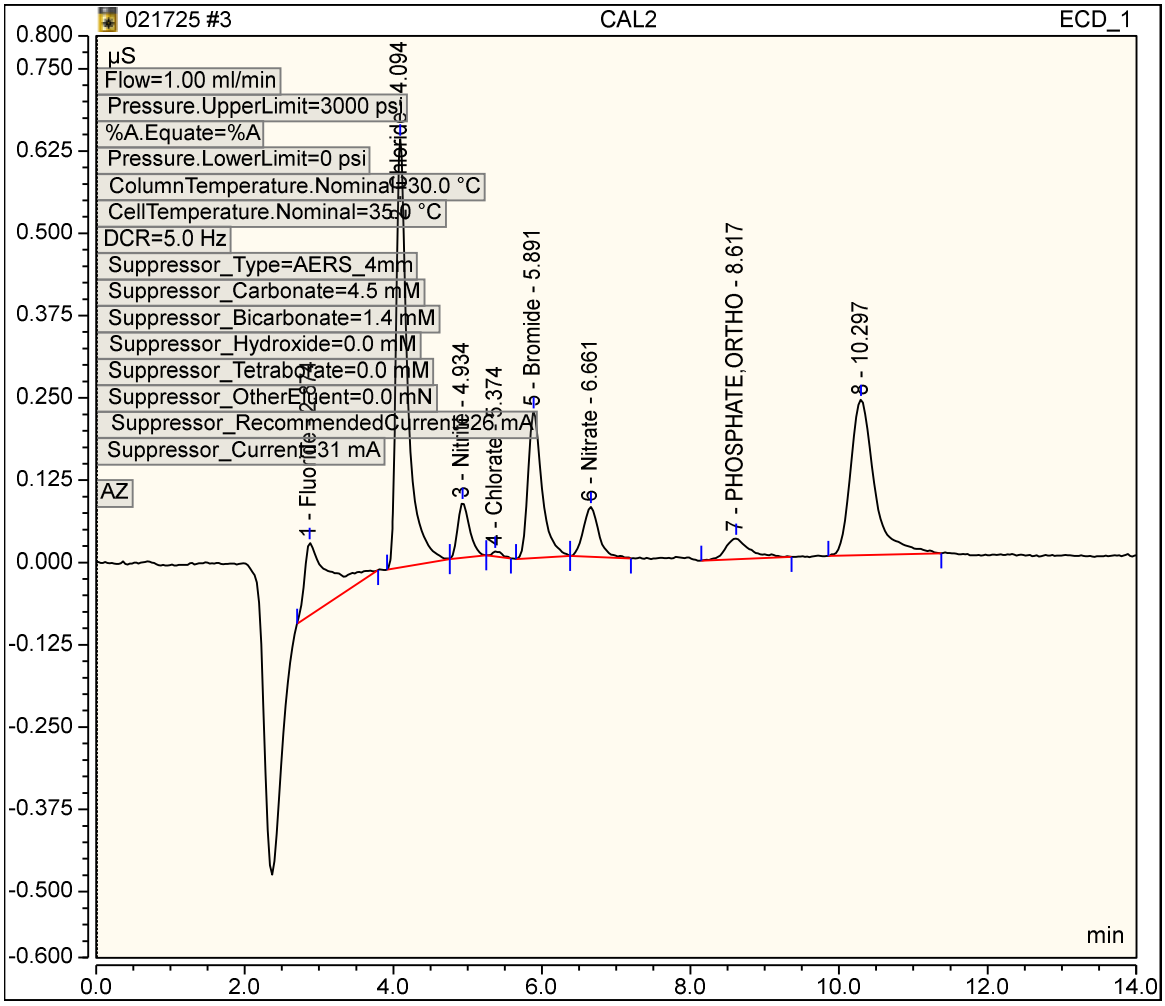
Sample Name:	**CAL2**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**BA: AJC4244 02/18/25**
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 17:57**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB*	0.009	0.048	0.1218
2	4.09	Chloride	BMB	0.117	0.650	1.3489
3	4.93	Nitrite	BMB	0.015	0.084	0.1197
4	5.37	Chlorate	BMB	0.001	0.007	0.0468
5	5.89	Bromide	BMB	0.048	0.222	1.2781
6	6.66	Nitrate	BMB	0.018	0.076	0.1015
7	8.62	PHOSPHATE,ORTHO	BMB	0.012	0.031	0.1008
8	10.30	Sulfate	BMB	0.088	0.236	1.2455
		TOTAL:		0.31	1.35	4.36



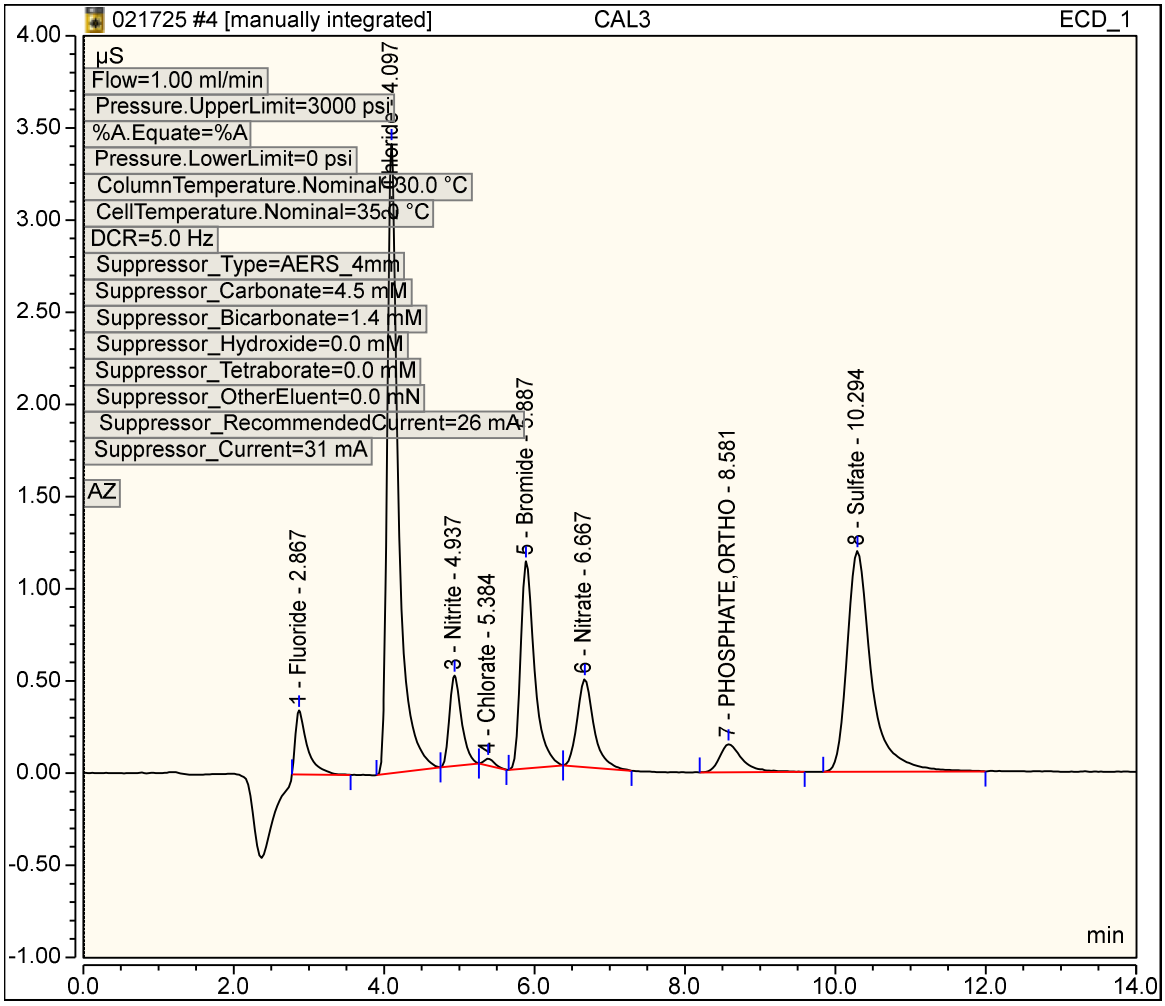
Sample Name:	**CAL2**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**25B05339**
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 17:57**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	0.042	0.110	n.a.
2	4.09	Chloride	BMB	0.117	0.650	n.a.
3	4.93	Nitrite	BMB	0.015	0.084	n.a.
4	5.37	Chlorate	BMB	0.001	0.007	n.a.
5	5.89	Bromide	BMB	0.048	0.222	n.a.
6	6.66	Nitrate	BMB	0.018	0.076	n.a.
7	8.62	PHOSPHATE,ORTHO	BMB	0.012	0.031	n.a.
		TOTAL:		0.25	1.18	0.00



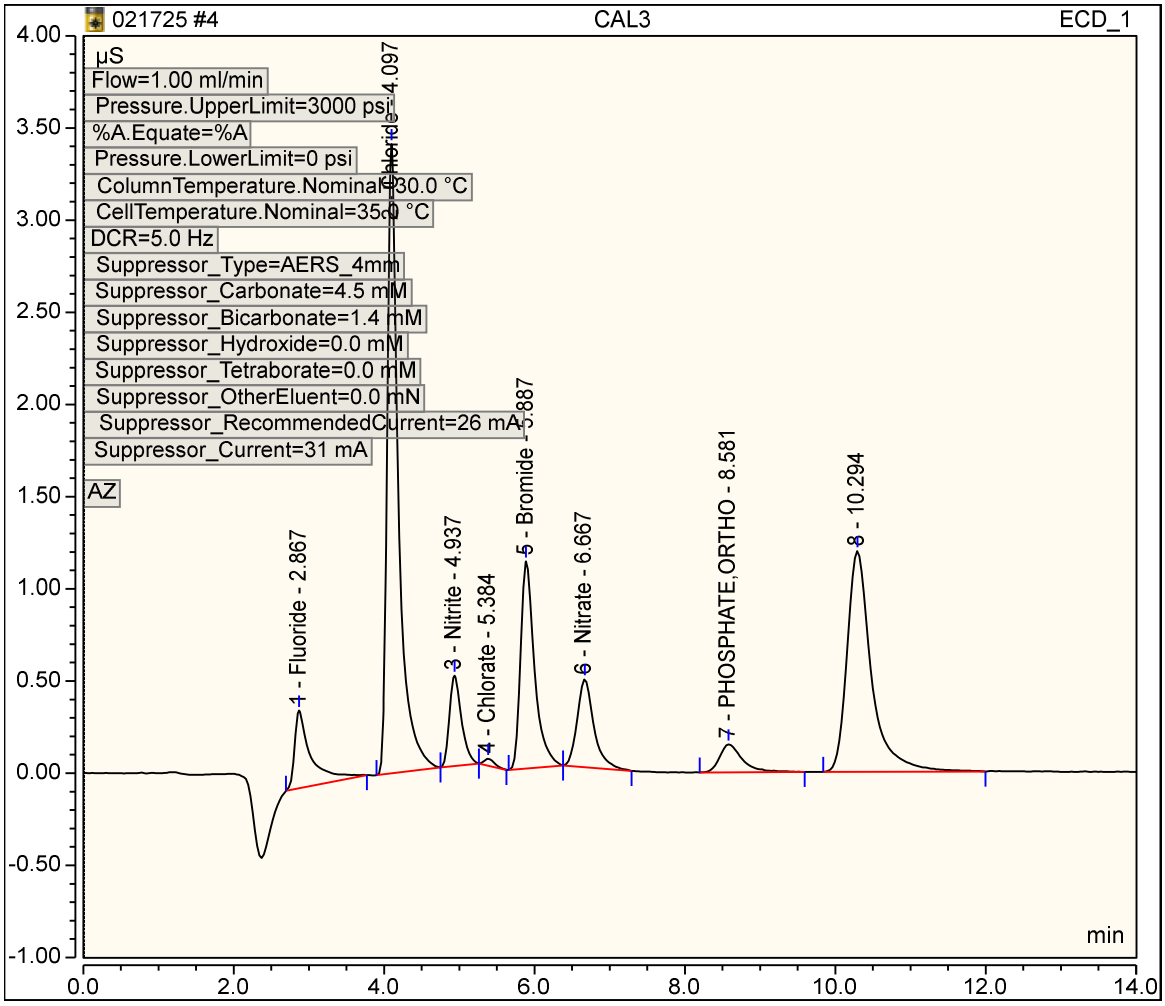
Sample Name:	**CAL3**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**BA: AJC4244 02/18/25**
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 18:14**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB*	0.065	0.347	0.4357
2	4.10	Chloride	BMB	0.599	3.414	4.3985
3	4.94	Nitrite	BMB	0.091	0.490	0.4612
4	5.38	Chlorate	BMB	0.006	0.038	0.2690
5	5.89	Bromide	BMB	0.244	1.125	4.6120
6	6.67	Nitrate	BMB	0.123	0.478	0.4747
7	8.58	PHOSPHATE,ORTHO	BMB	0.053	0.151	0.4814
8	10.29	Sulfate	BMB	0.452	1.197	4.6888
		TOTAL:		1.63	7.24	15.82



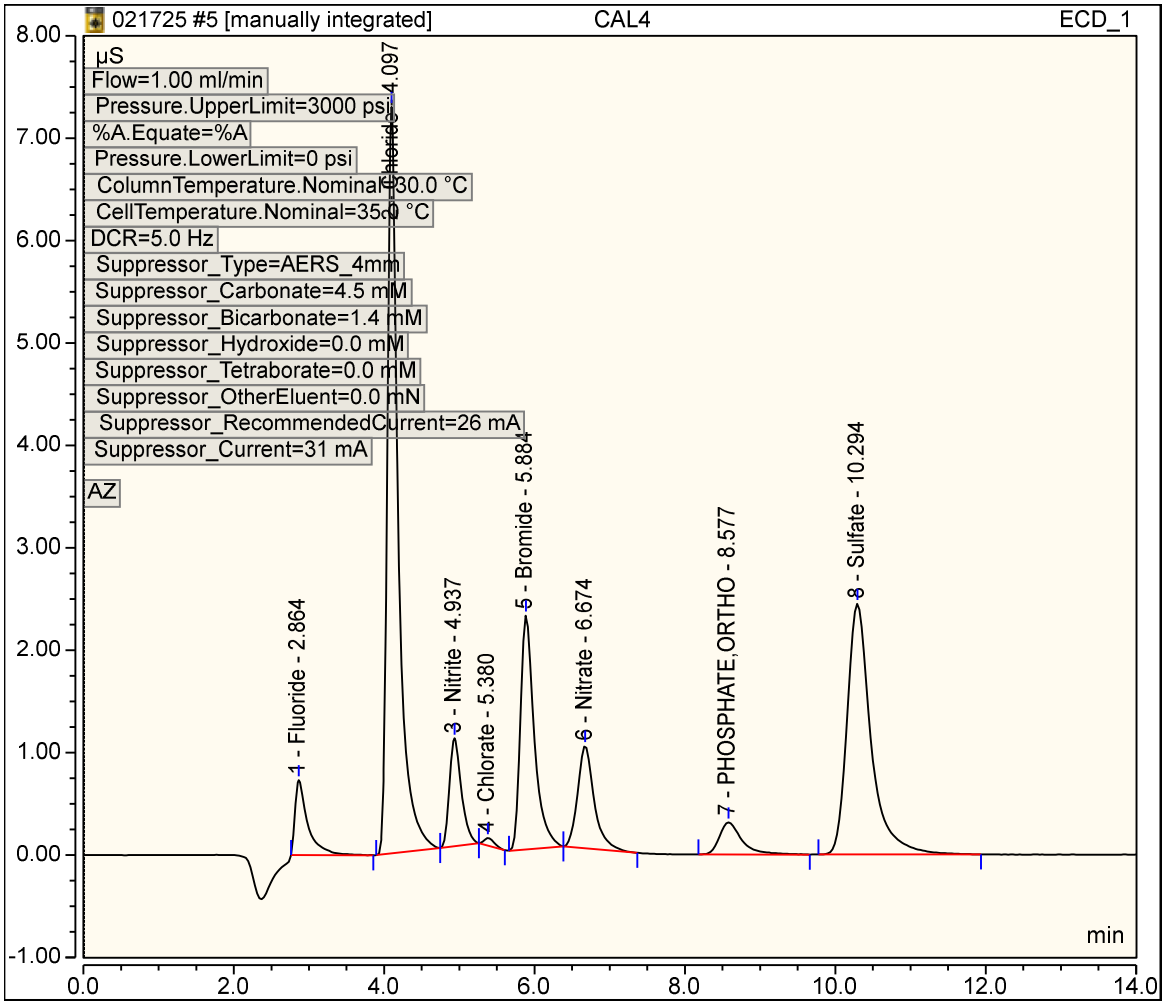
Sample Name:	**CAL3**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 18:14**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	0.107	0.421	0.1518
2	4.10	Chloride	BMB	0.599	3.414	1.4056
3	4.94	Nitrite	BMB	0.091	0.490	0.1446
4	5.38	Chlorate	BMB	0.006	0.038	0.0843
5	5.89	Bromide	BMB	0.244	1.125	1.4681
6	6.67	Nitrate	BMB	0.123	0.478	0.1380
7	8.58	PHOSPHATE,ORTHO	BMB	0.053	0.151	0.1392
		TOTAL:		1.22	6.12	3.53



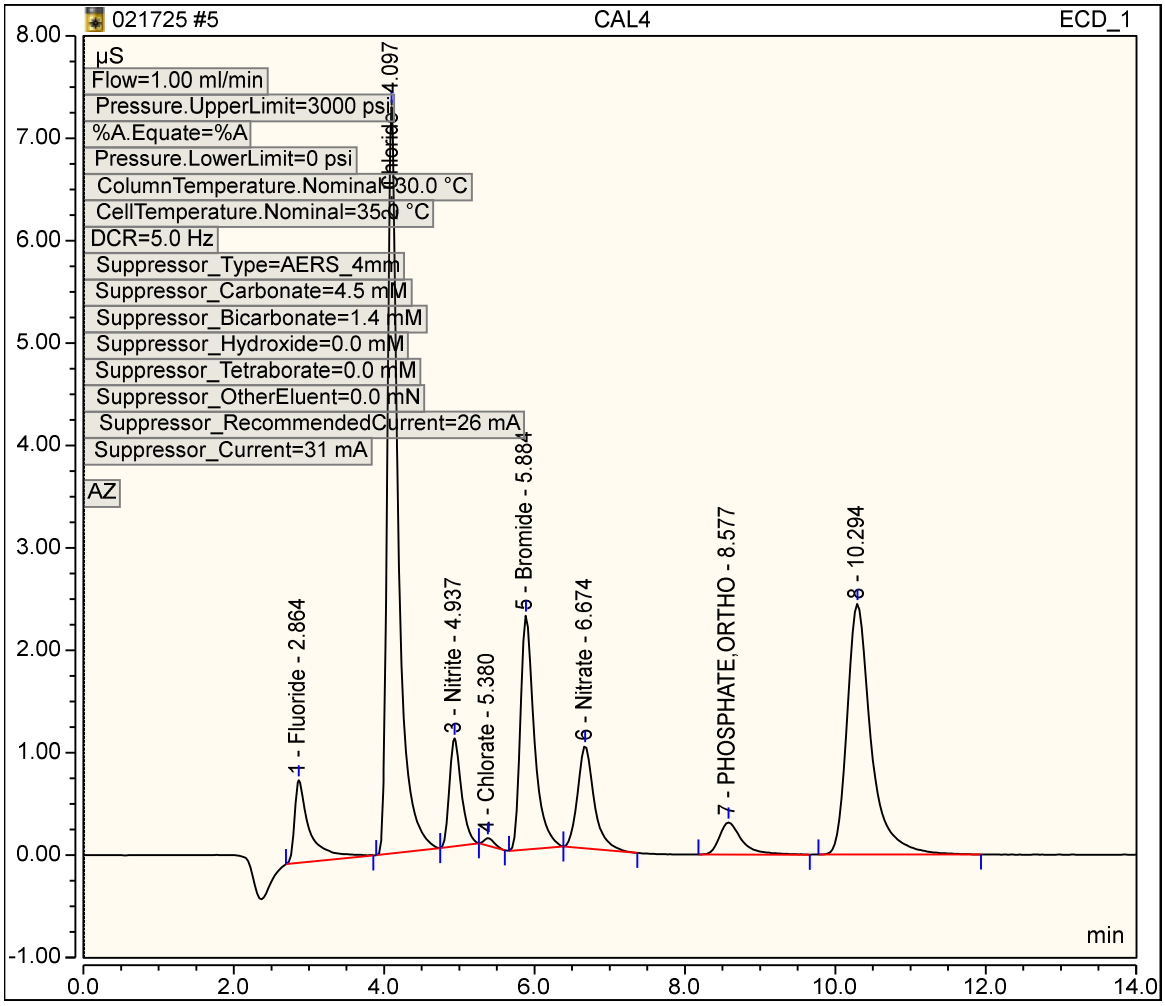
Sample Name:	**CAL4**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**BA: AJC4244 02/18/25**
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 18:31**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB*	0.146	0.733	0.8898
2	4.10	Chloride	BMB	1.248	7.290	8.5053
3	4.94	Nitrite	BMB	0.194	1.054	0.9299
4	5.38	Chlorate	BMB	0.012	0.074	0.5307
5	5.88	Bromide	BMB	0.494	2.286	8.8768
6	6.67	Nitrate	BMB	0.257	1.002	0.9489
7	8.58	PHOSPHATE,ORTHO	BMB	0.109	0.315	0.9948
8	10.29	Sulfate	BMB	0.907	2.448	8.9909
		TOTAL:		3.37	15.20	30.67



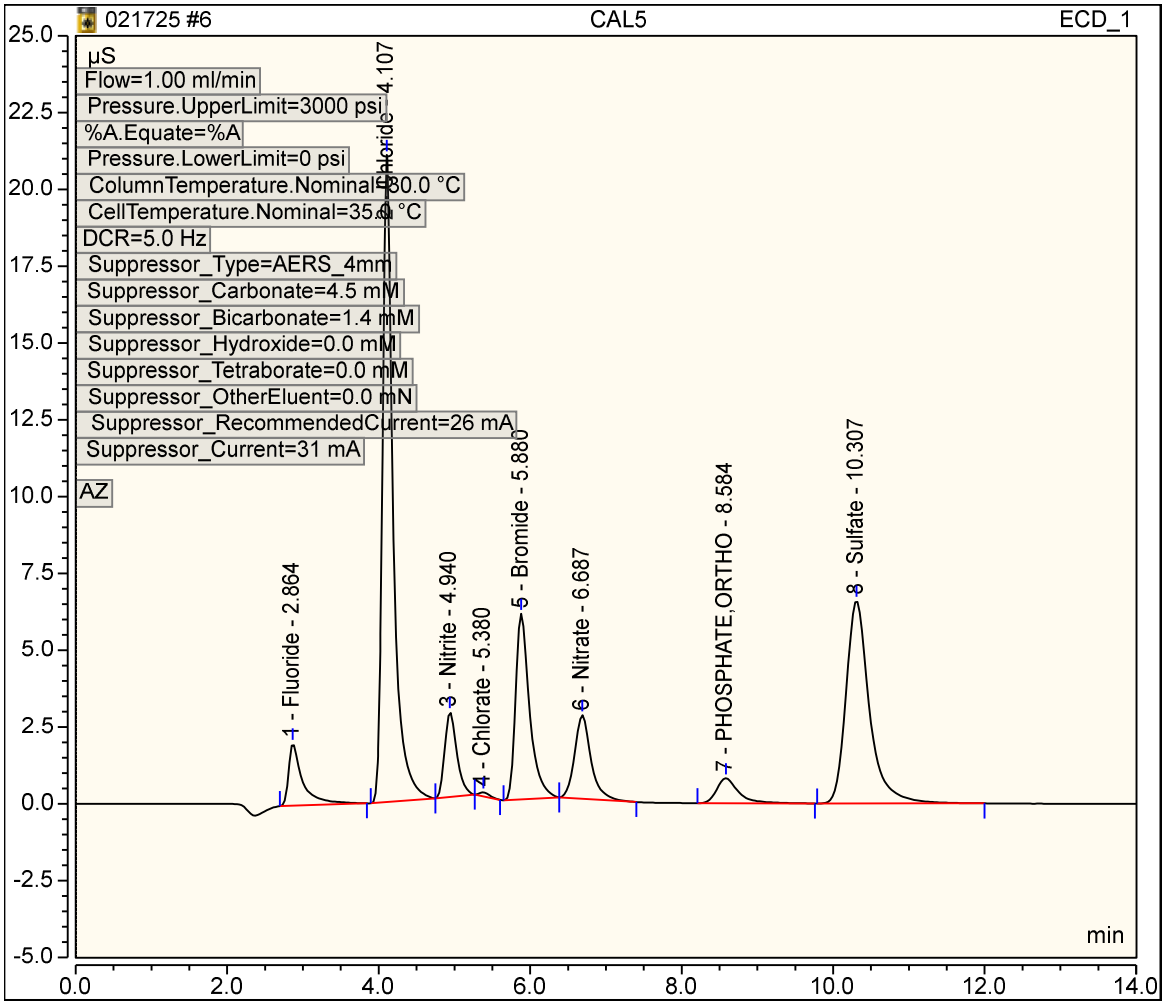
Sample Name:	**CAL4**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 18:31**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.192	0.807	0.3971
2	4.10	Chloride	BMB	1.248	7.290	3.4624
3	4.94	Nitrite	BMB	0.194	1.054	0.3801
4	5.38	Chlorate	BMB	0.012	0.074	0.2127
5	5.88	Bromide	BMB	0.494	2.286	3.6090
6	6.67	Nitrate	BMB	0.257	1.002	0.3541
7	8.58	PHOSPHATE,ORTHO	BMB	0.109	0.315	0.3728
		TOTAL:		2.51	12.83	8.79



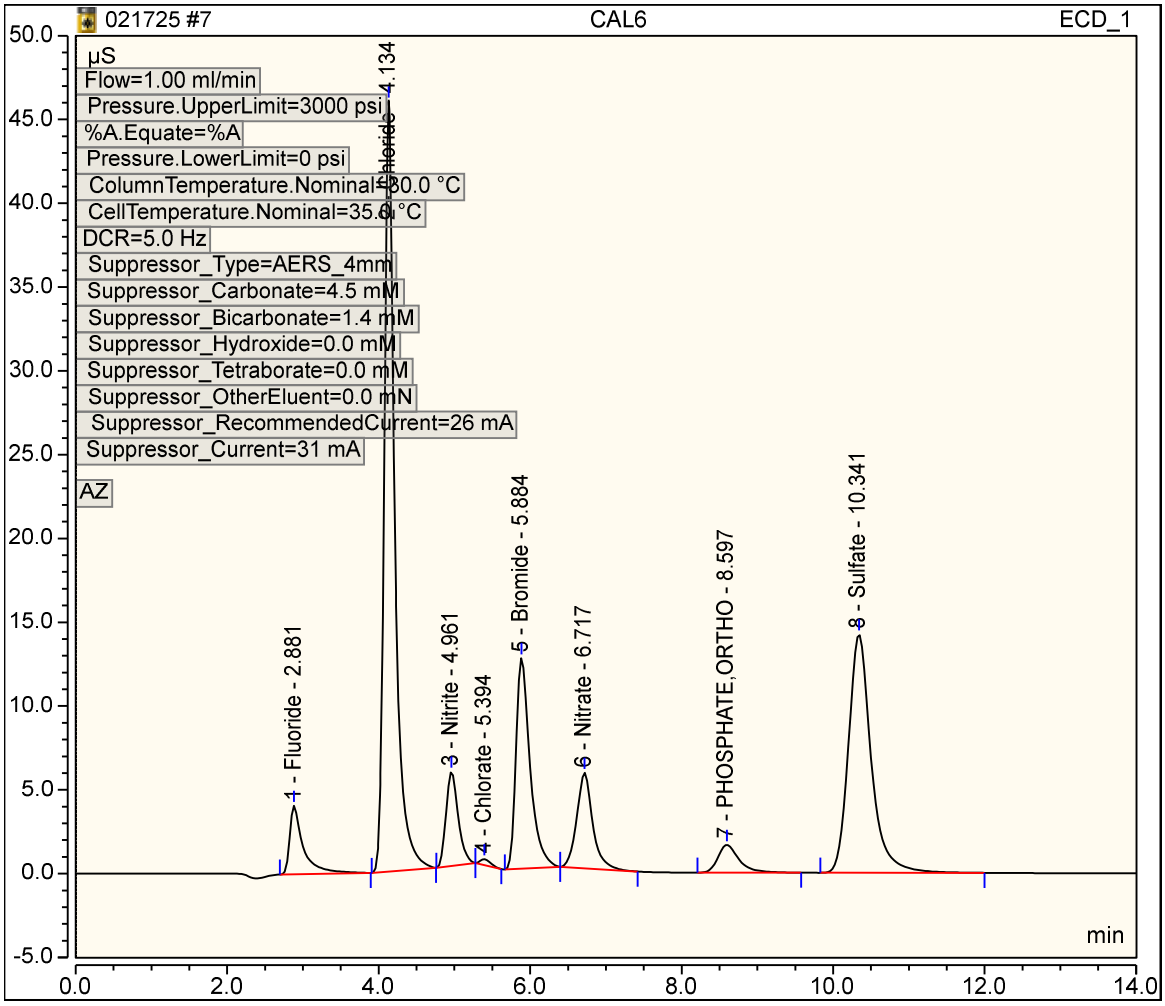
Sample Name:	**CAL5**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 18:48**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.441	2.022	2.5472
2	4.11	Chloride	BMB	3.461	21.062	22.5133
3	4.94	Nitrite	BMB	0.512	2.763	2.3692
4	5.38	Chlorate	BMB	0.020	0.133	0.9125
5	5.88	Bromide	BMB	1.303	6.046	22.6775
6	6.69	Nitrate	BMB	0.680	2.724	2.4512
7	8.58	PHOSPHATE,ORTHO	BMB	0.274	0.813	2.5039
8	10.31	Sulfate	BMB	2.370	6.600	22.8375
		TOTAL:		9.06	42.16	78.81



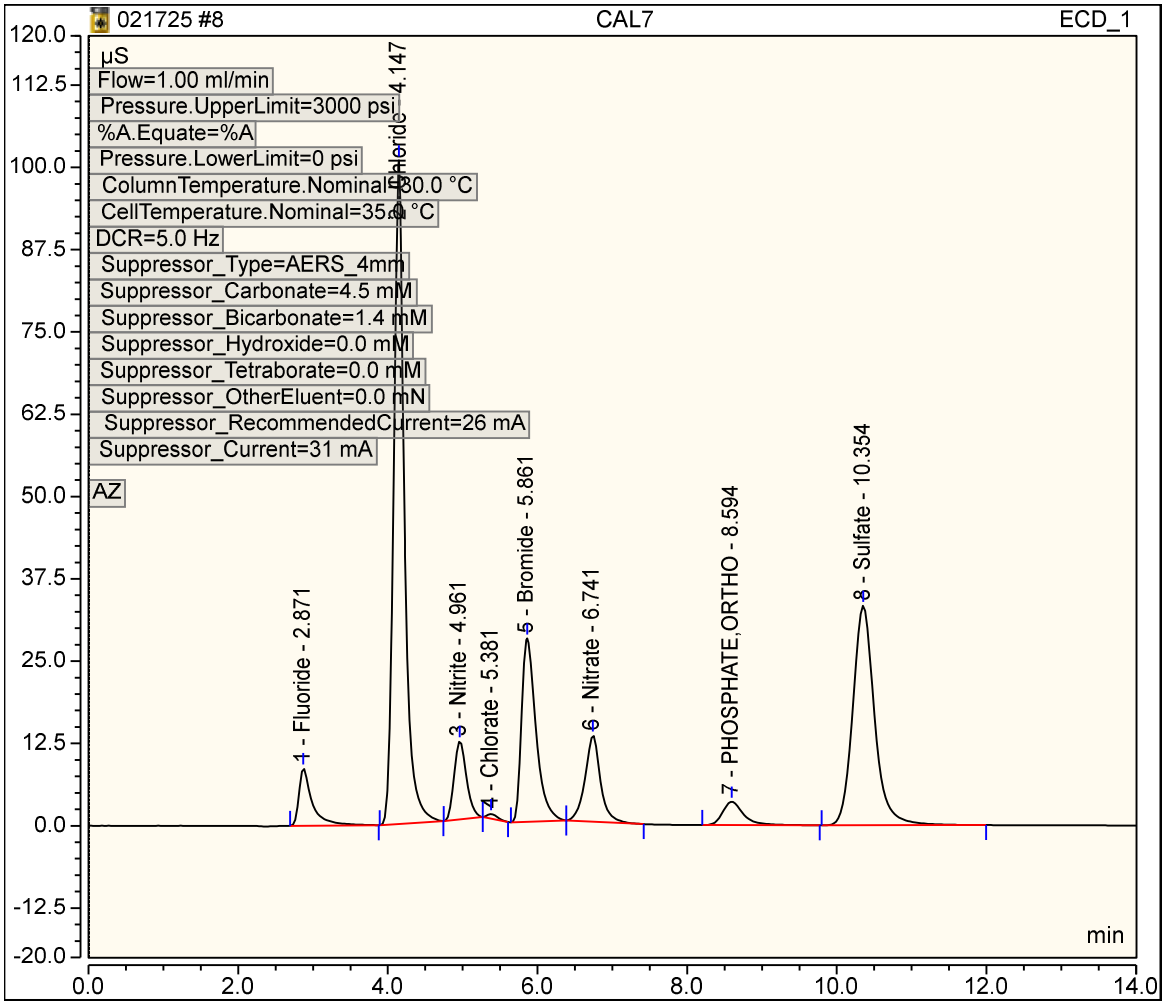
Sample Name:	**CAL6**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 19:05**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.88	Fluoride	BMB	0.864	4.088	4.9158
2	4.13	Chloride	BMB	7.456	45.951	47.8008
3	4.96	Nitrite	BMB	1.051	5.635	4.8087
4	5.39	Chlorate	BMB	0.056	0.360	2.5265
5	5.88	Bromide	BMB	2.724	12.568	46.9157
6	6.72	Nitrate	BMB	1.392	5.701	4.9790
7	8.60	PHOSPHATE,ORTHO	BMB	0.543	1.659	4.9638
8	10.34	Sulfate	BMB	4.943	14.234	47.1813
		TOTAL:		19.03	90.20	164.09



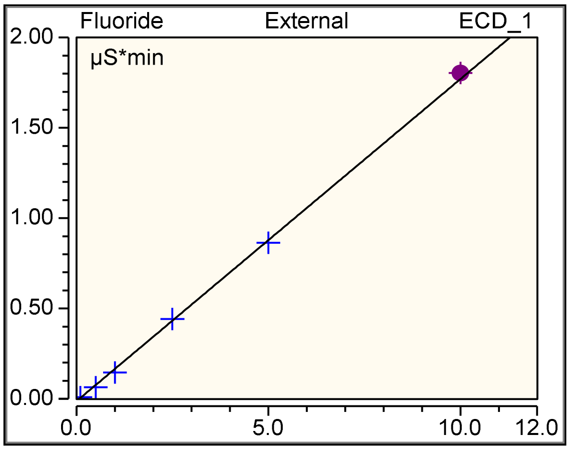
Sample Name:	**CAL7**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 19:22**	*Run Time:*	**14.00**

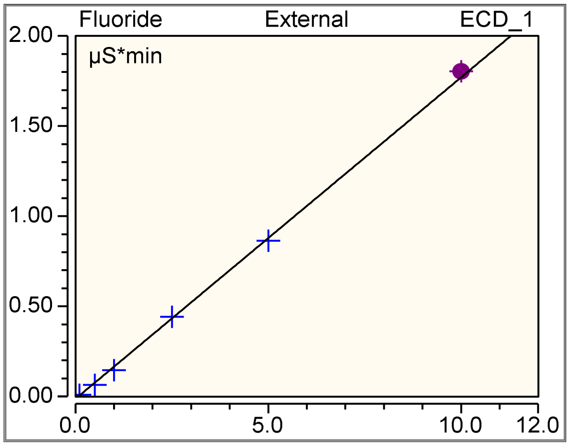
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	1.804	8.748	10.1897
2	4.15	Chloride	BMB	16.719	100.812	106.4332
3	4.96	Nitrite	BMB	2.289	11.931	10.4114
4	5.38	Chlorate	BMB	0.111	0.718	5.0145
5	5.86	Bromide	BMB	6.226	27.849	106.6399
6	6.74	Nitrate	BMB	3.116	13.103	11.1033
7	8.59	PHOSPHATE,ORTHO	BMB	1.138	3.566	10.4051
8	10.35	Sulfate	BMB	11.164	33.338	106.0560
		TOTAL:		42.57	200.07	366.25

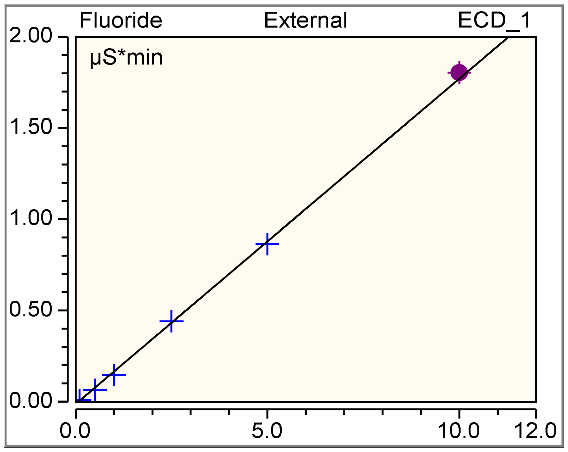


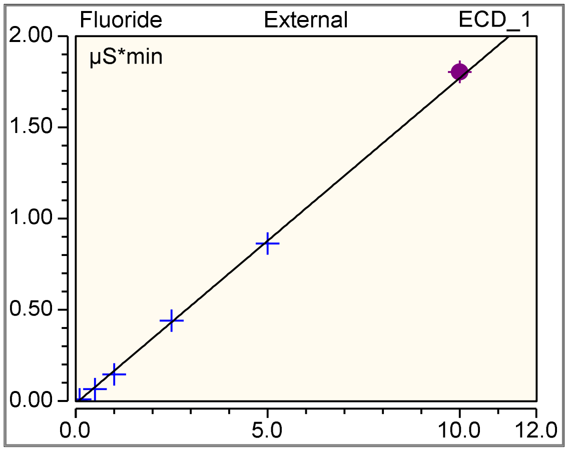
Calibration Batch Report

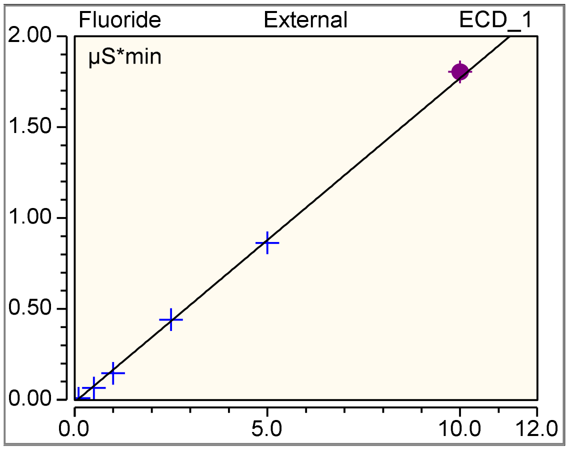
Sequence:	**021725**	Inj. Vol.:	**5000.0**
Program:	**Anions 300.1**	Operator:	**WETLABIC8**
Inj. Date/Time:	**02/17/25 19:22**	Run Time:	**14.00**

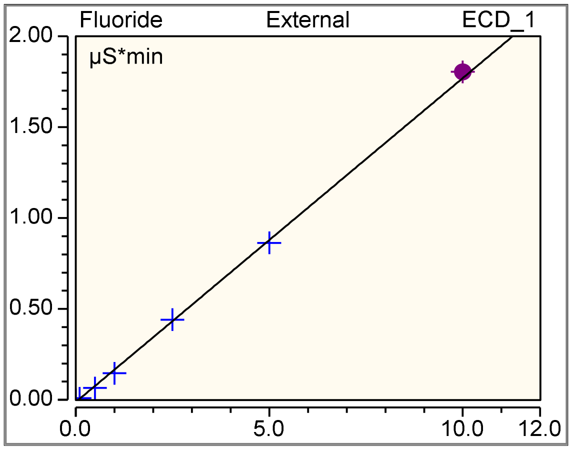




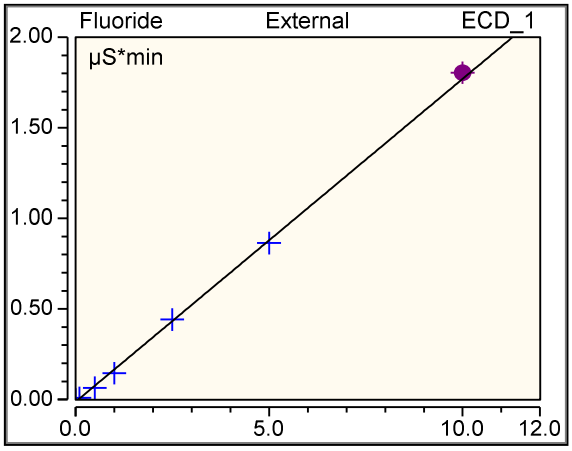








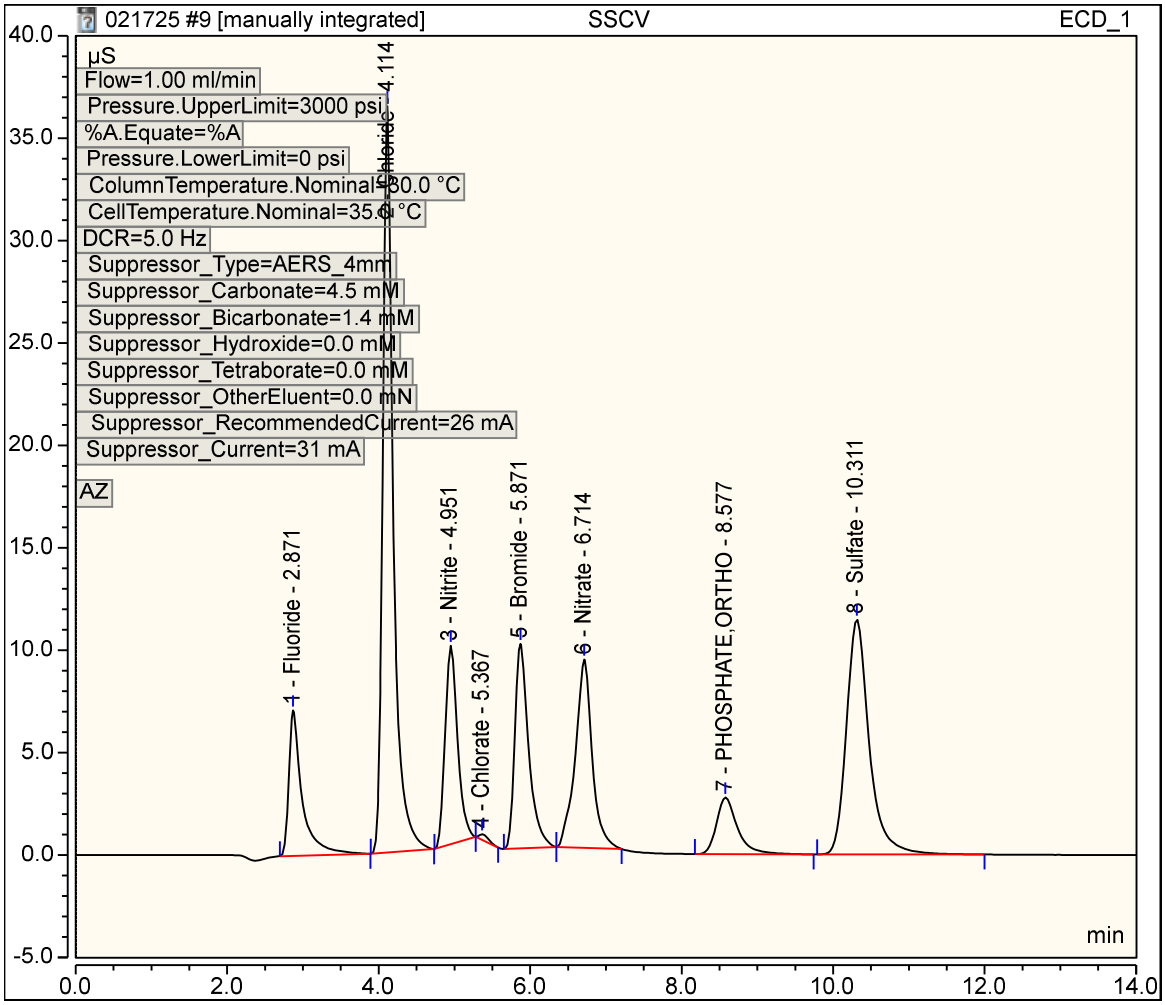
Sequence:	**021725**	*Inj. Vol.:*	**5000.0**
Program:	**Anions 300.1**	*Operator:*	**n.a.**
Inj. Date/Time:	**02/17/25 19:22**	*Run Time:*	**14.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.87	Fluoride	, WithOffset,	6	-0.013	0.178	0.000	99.906
2	4.15	Chloride	, WithOffset,	6	-0.096	0.158	0.000	99.645
3	4.96	Nitrite	, WithOffset,	6	-0.011	0.221	0.000	99.870
4	5.38	Chlorate	, WithOffset,	6	0.000	0.022	0.000	99.928
5	5.86	Bromide	, WithOffset,	6	-0.027	0.059	0.000	99.674
6	6.74	Nitrate	, WithOffset,	6	-0.010	0.282	0.000	99.788
7	8.59	PHOSPHATE,O	WithOffset,	6	0.001	0.109	0.000	99.962
8	10.35	Sulfate	, WithOffset,	6	-0.043	0.106	0.000	99.730
AVERAGE:					-0.0249	0.1418	0.0000	99.8128

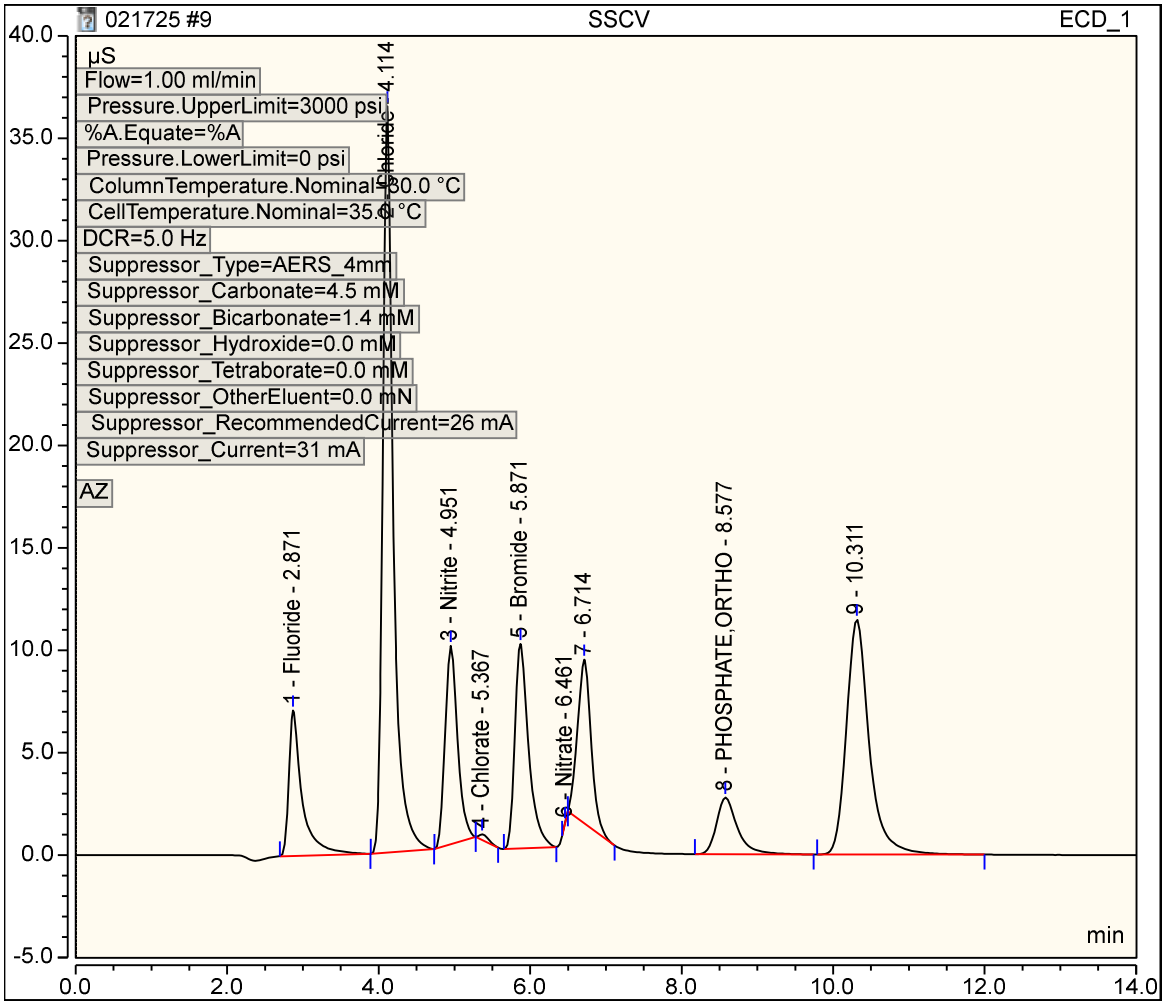
Sample Name:	**SSCV**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**BA: AJC4244 02/18/25**
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 19:39**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	1.454	7.102	8.2281
2	4.11	Chloride	BMB	5.921	36.436	38.0811
3	4.95	Nitrite	BMB	1.852	9.691	8.4309
4	5.37	Chlorate	BMB	0.041	0.279	1.8473
5	5.87	Bromide	BMb*	2.125	9.996	36.7082
6	6.71	Nitrate	bMB*	2.367	9.198	8.4438
7	8.58	PHOSPHATE,ORTHO	BMB	0.892	2.762	8.1565
8	10.31	Sulfate	BMB	4.010	11.478	38.3528
		TOTAL:		18.66	86.94	148.25



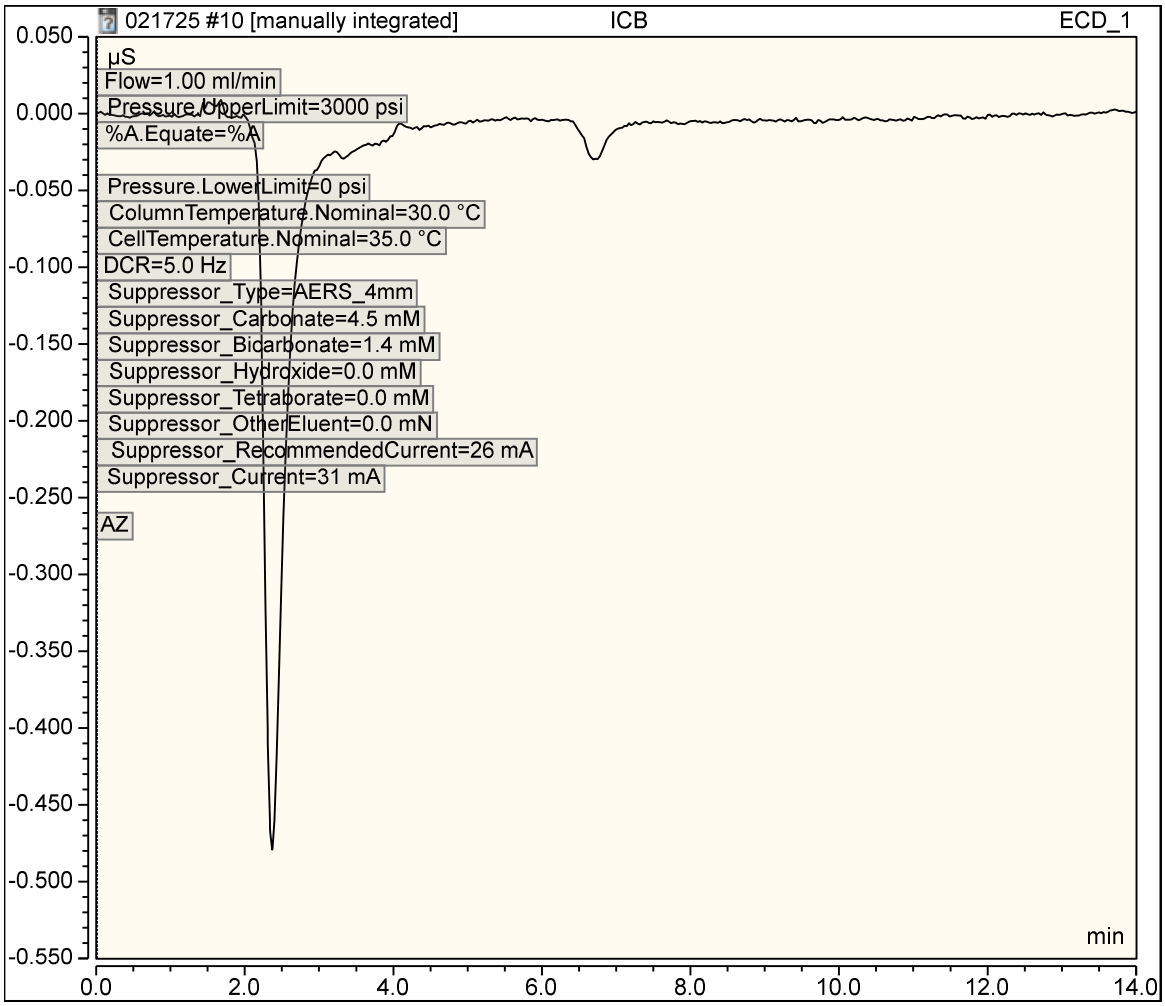
Sample Name:	**SSCV**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 19:39**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	1.454	7.102	4.0644
2	4.11	Chloride	BMB	5.921	36.436	18.2756
3	4.95	Nitrite	BMB	1.852	9.691	4.1485
4	5.37	Chlorate	BMB	0.041	0.279	0.8584
5	5.87	Bromide	BMB	2.125	9.996	17.5795
6	6.46	Nitrate	BMB	0.002	0.048	n.a.
8	8.58	PHOSPHATE,ORTHO	BMB	0.892	2.762	3.6323
		TOTAL:		12.29	66.31	48.56



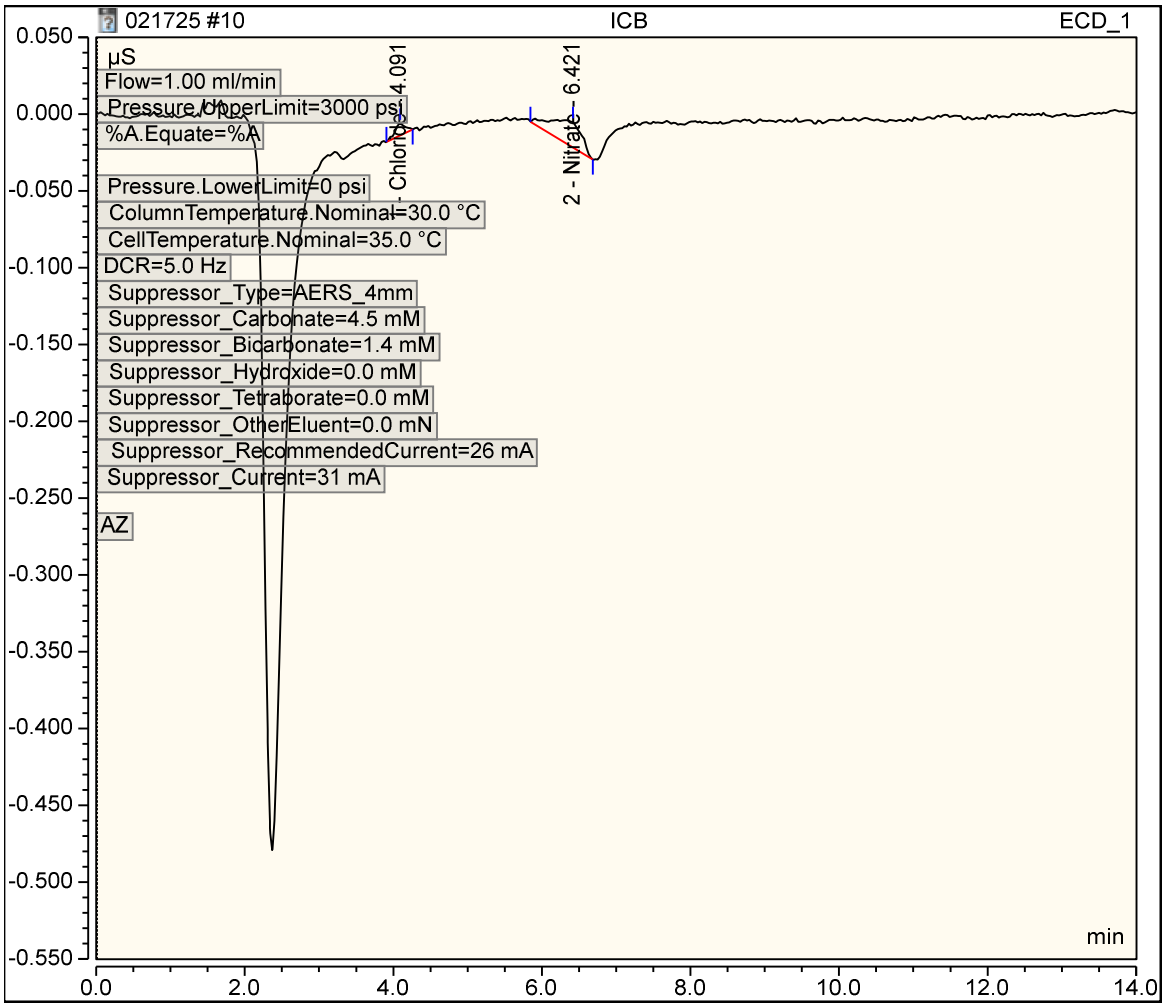
Sample Name:	**ICB**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**BA: AJC4244 02/18/25**
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 19:56**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount n.a.
		TOTAL:		0.00	0.00	0.00



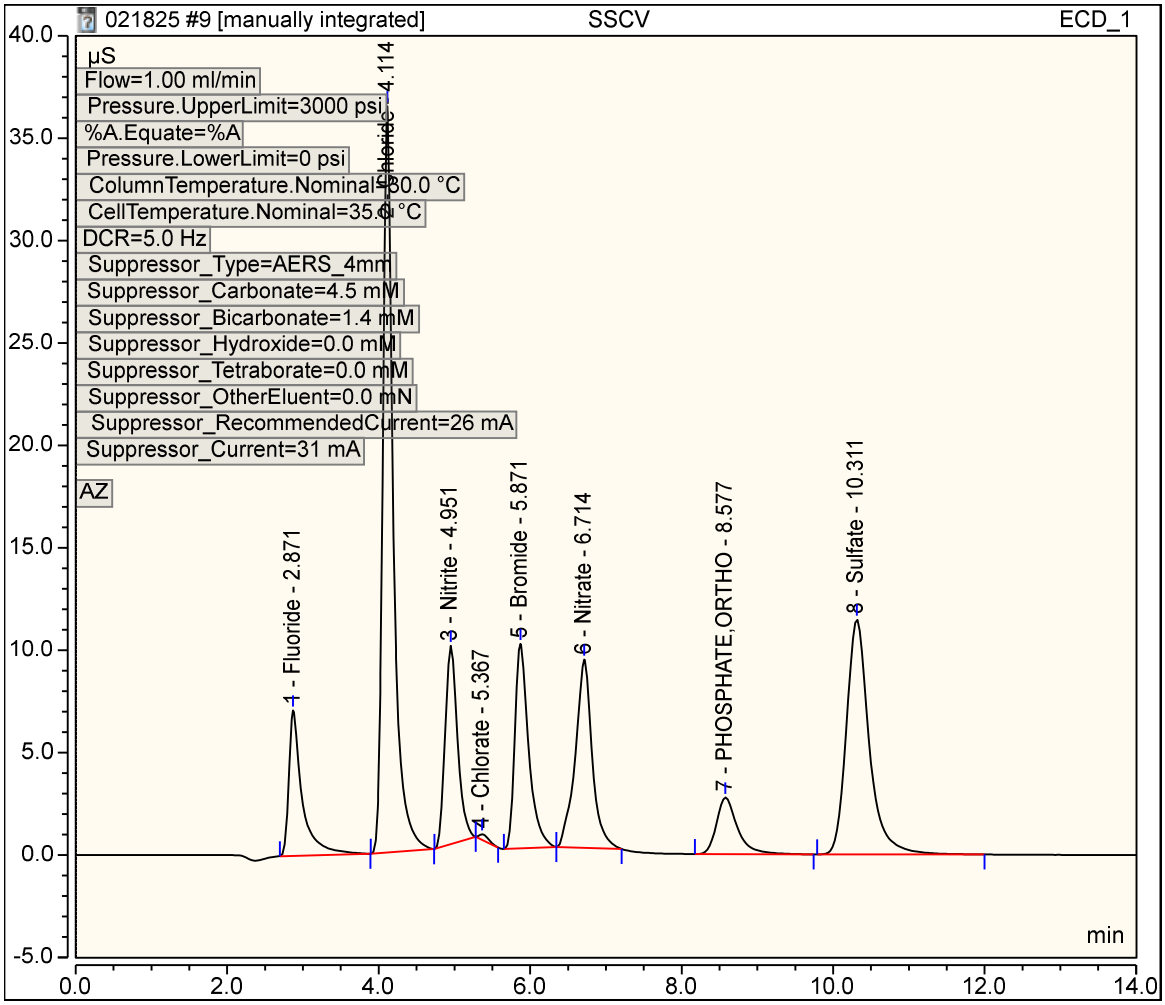
Sample Name:	**ICB**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 19:56**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	4.09	Chloride	BMB	0.001	0.008	n.a.
2	6.42	Nitrate	BMB	0.008	0.017	n.a.
		TOTAL:		0.01	0.02	0.00



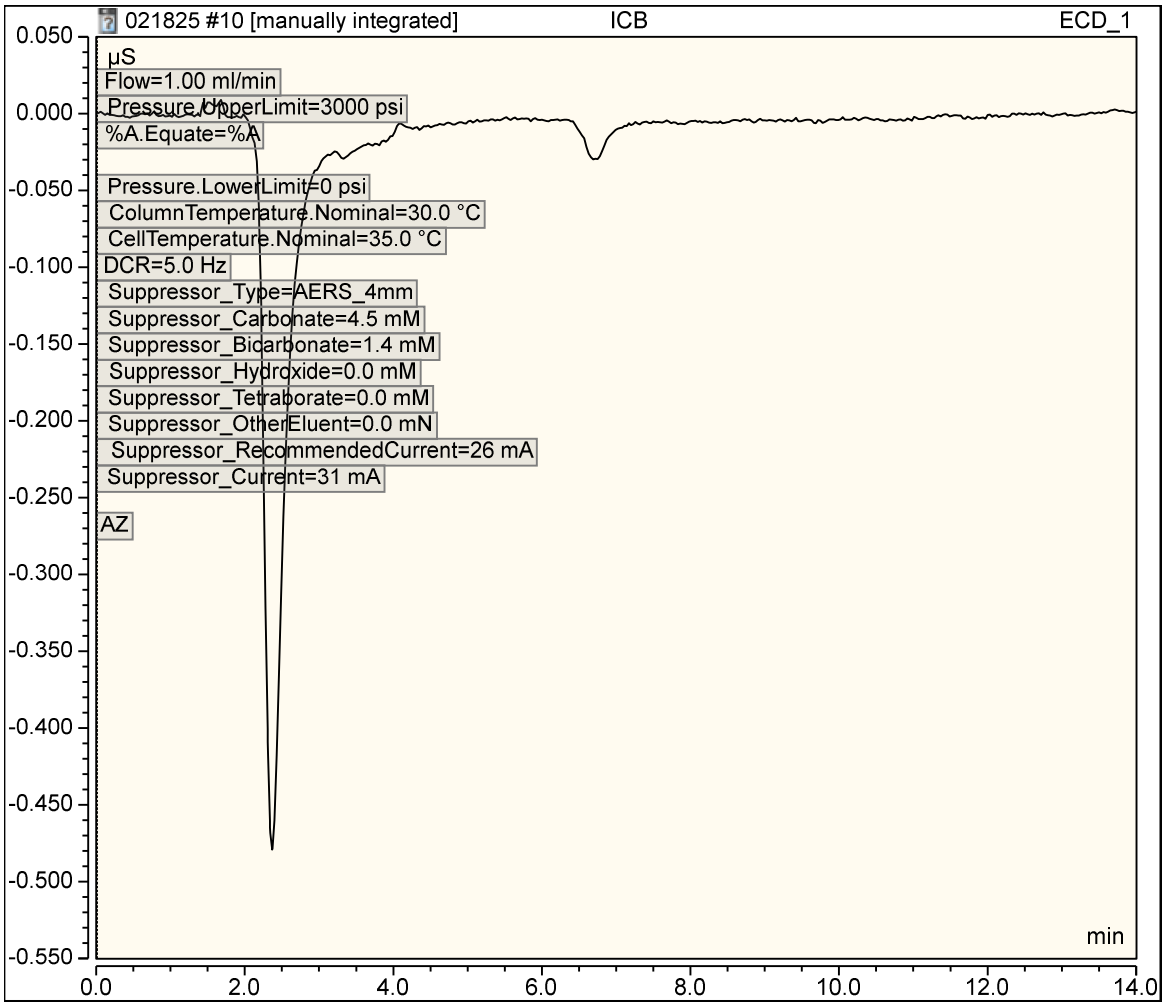
Sample Name:	**SSCV**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**BA: AJC4244 02/18/25**
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 19:39**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	1.454	7.102	8.2281
2	4.11	Chloride	BMB	5.921	36.436	38.0811
3	4.95	Nitrite	BMB	1.852	9.691	8.4309
4	5.37	Chlorate	BMB	0.041	0.279	1.8473
5	5.87	Bromide	BMb*	2.125	9.996	36.7082
6	6.71	Nitrate	bMB*	2.367	9.198	8.4438
7	8.58	PHOSPHATE,ORTHO	BMB	0.892	2.762	8.1565
8	10.31	Sulfate	BMB	4.010	11.478	38.3528
		TOTAL:		18.66	86.94	148.25



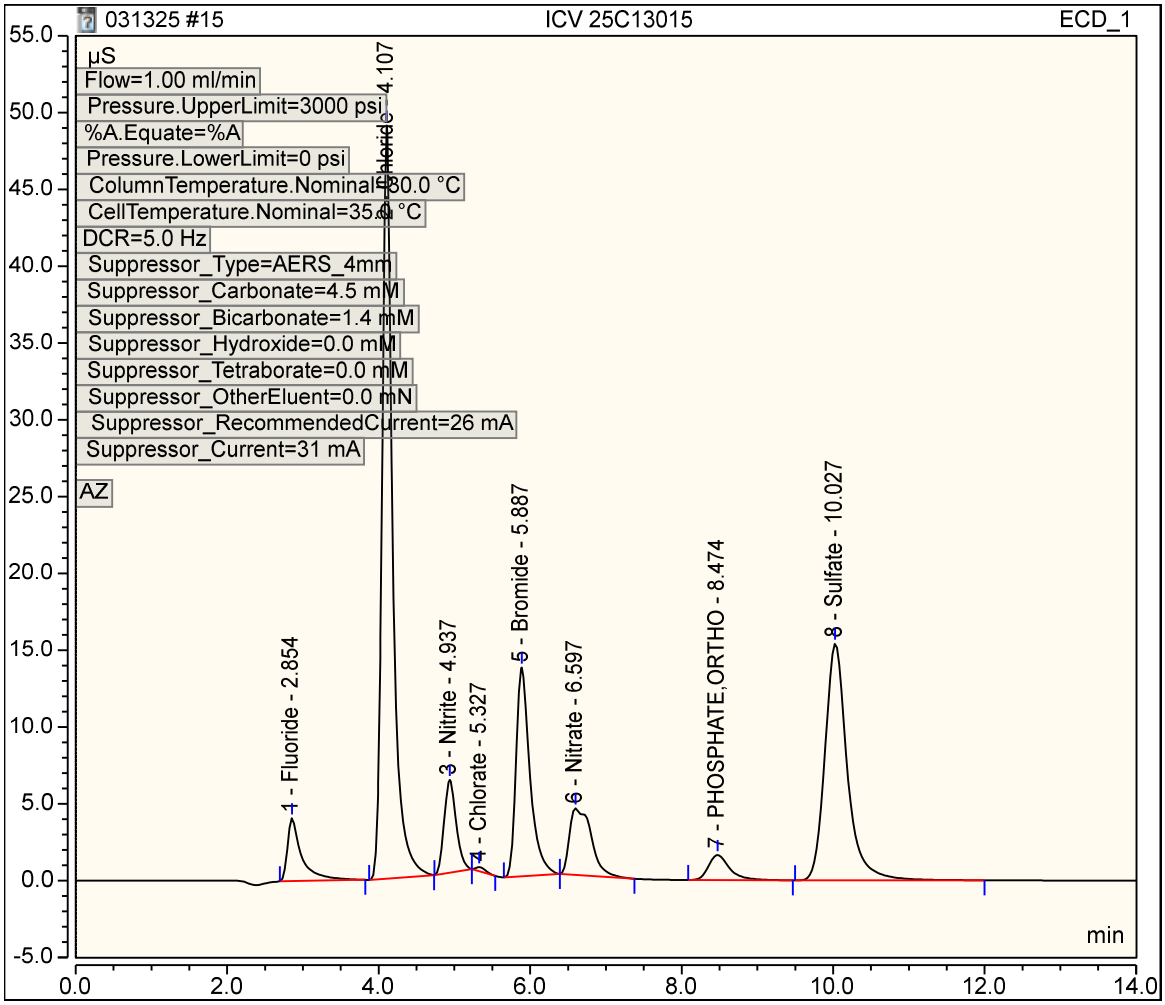
Sample Name:	**ICB**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**BA: AJC4244 02/18/25**
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**02/17/25 19:56**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount n.a.
		TOTAL:		0.00	0.00	0.00



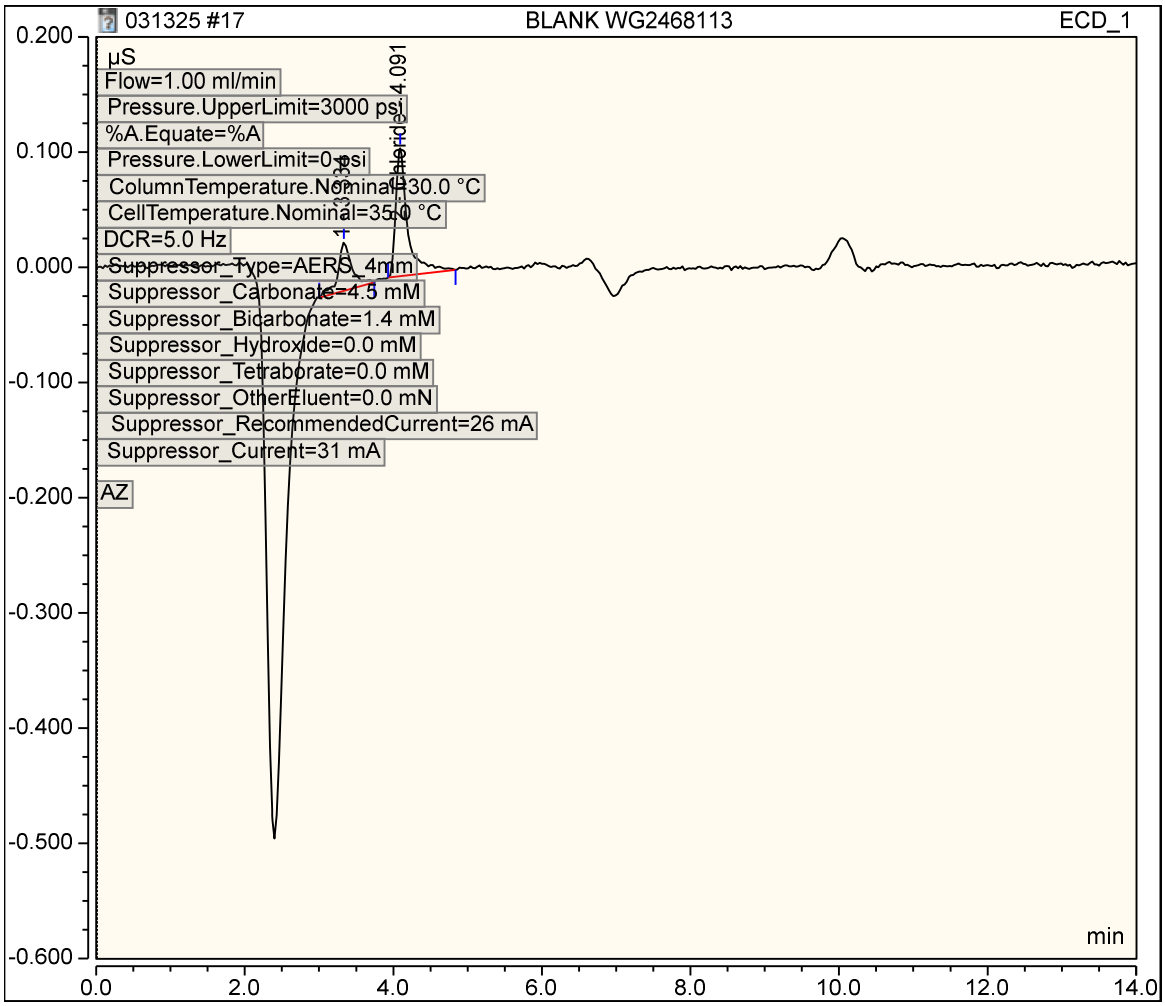
Sample Name:	**ICV 25C13015**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 15:57**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.85	Fluoride	BMB	0.897	4.094	5.1034
2	4.11	Chloride	BMB	7.971	49.018	51.0620
3	4.94	Nitrite	BMB	1.108	6.042	5.0635
4	5.33	Chlorate	BMB	0.041	0.275	1.8426
5	5.89	Bromide	BMB	2.913	13.586	50.1323
6	6.60	Nitrate	BMB	1.452	4.338	5.1946
7	8.47	PHOSPHATE,ORTHO	BMB	0.535	1.642	4.8880
8	10.03	Sulfate	BMB	5.289	15.431	50.4565
		TOTAL:		20.21	94.43	173.74



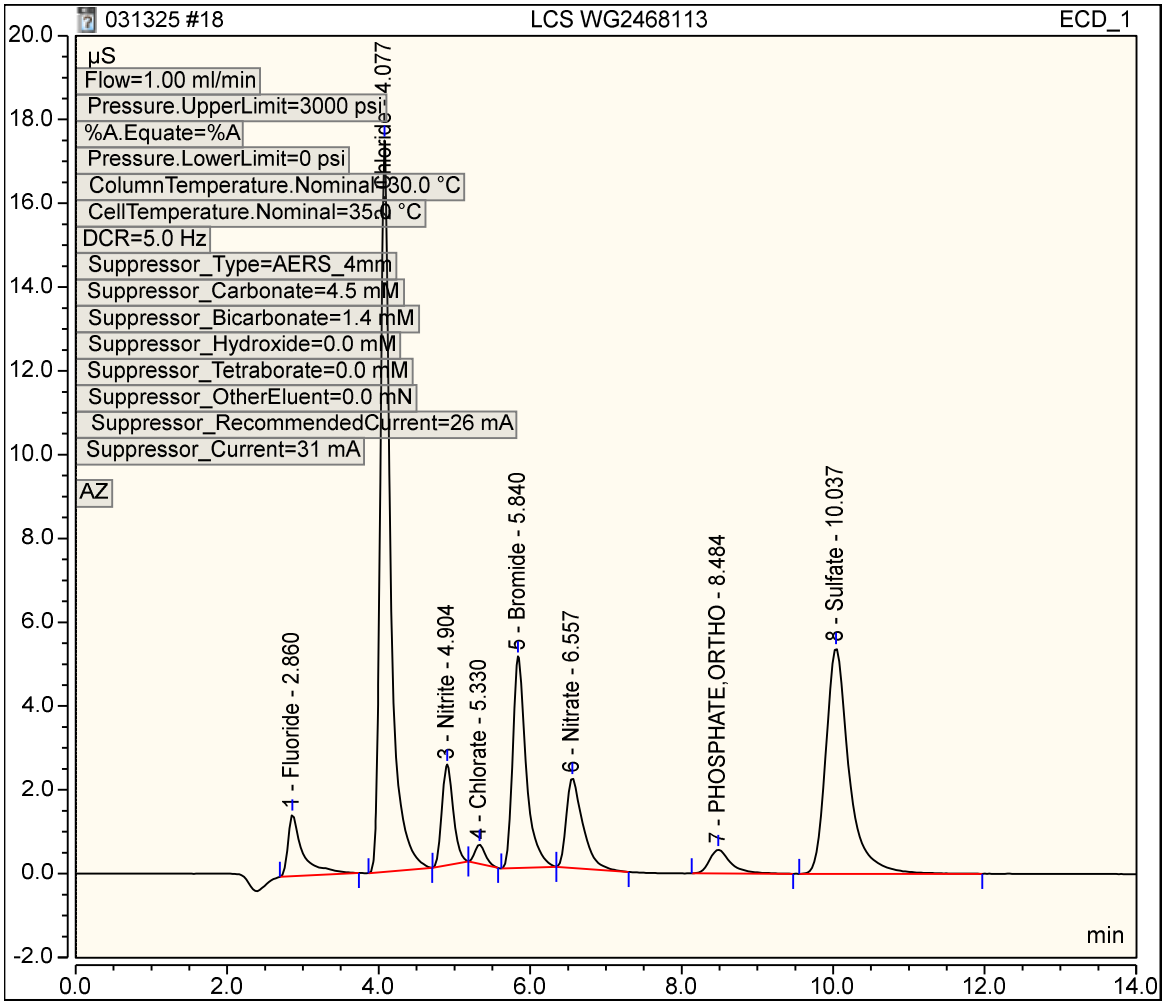
Sample Name:	**BLANK WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 17:46**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
2	4.09	Chloride	BMB	0.021	0.111	0.7354
		TOTAL:		0.02	0.11	0.74



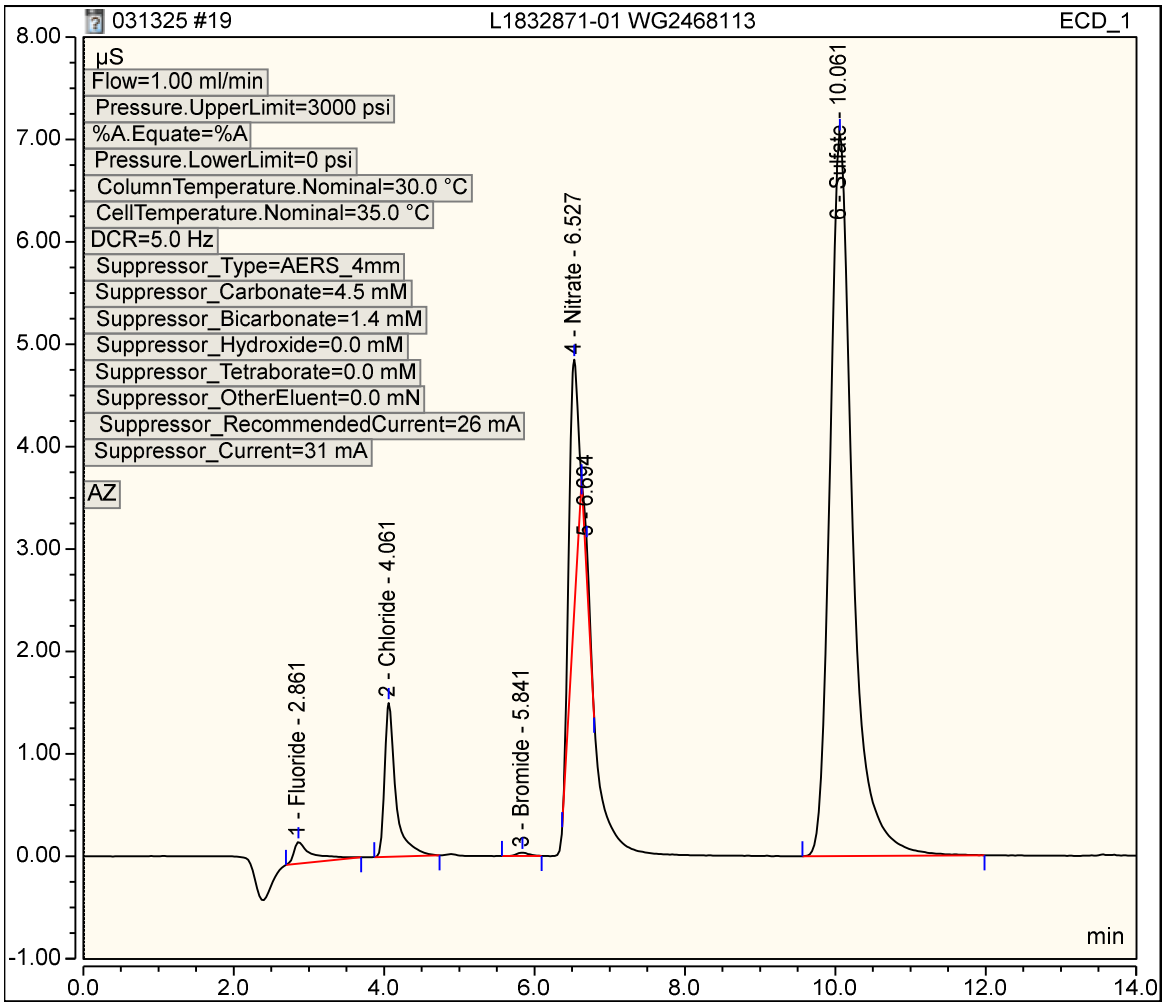
Sample Name:	**LCS WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 18:02**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.339	1.476	1.9763
2	4.08	Chloride	BMB	2.776	17.457	18.1754
3	4.90	Nitrite	BMB	0.416	2.401	1.9348
4	5.33	Chlorate	BMB	0.074	0.457	3.3629
5	5.84	Bromide	BMB	1.044	5.052	18.2595
6	6.56	Nitrate	BMB	0.543	2.153	1.9656
7	8.48	PHOSPHATE,ORTHO	BMB	0.186	0.567	1.6948
8	10.04	Sulfate	BMB	1.917	5.395	18.5512
		TOTAL:		7.30	34.96	65.92



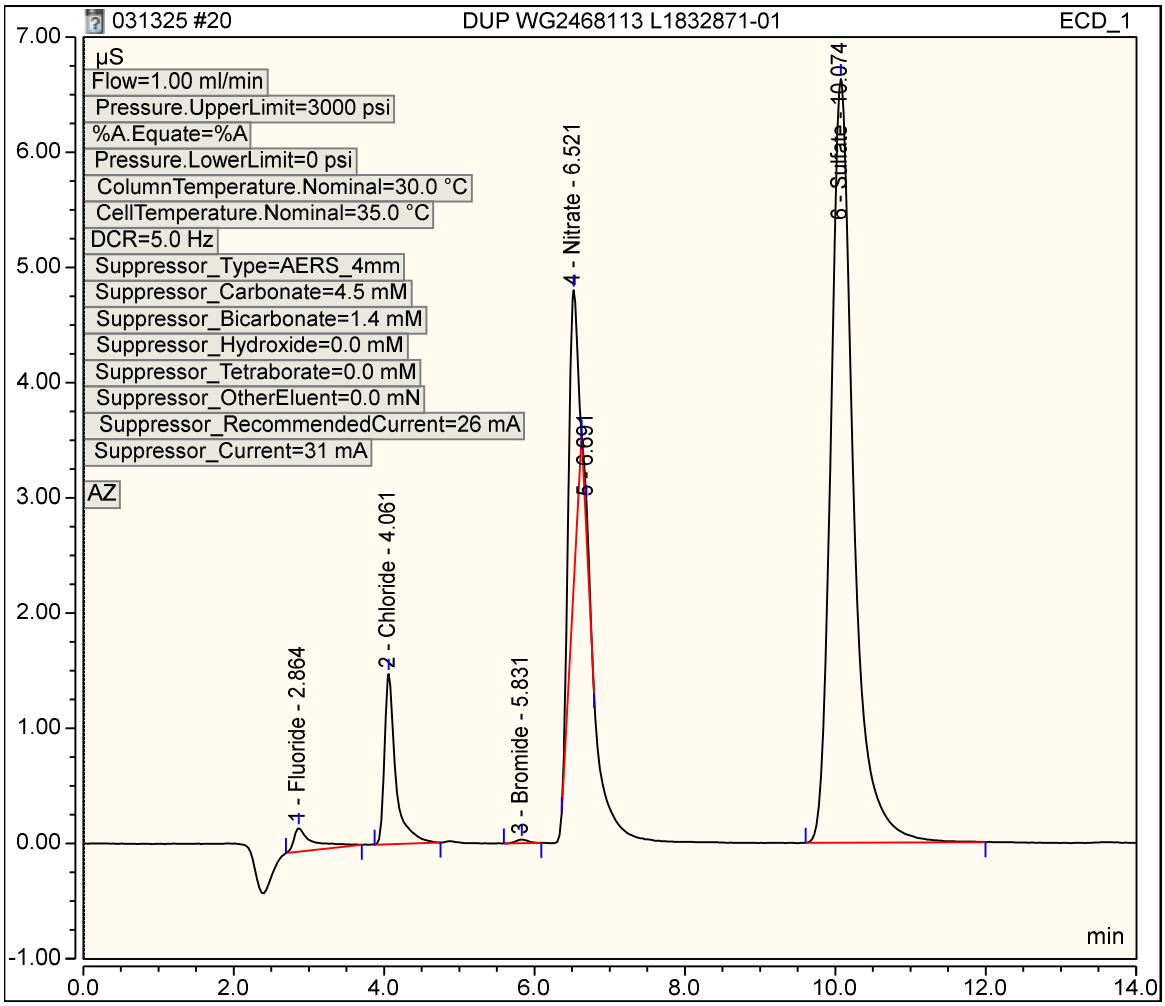
Sample Name:	**L1832871-01 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 18:19**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.060	0.210	0.4102
2	4.06	Chloride	BMB	0.259	1.502	2.2443
3	5.84	Bromide	BMB	0.006	0.033	0.5660
4	6.53	Nitrate	BMB	0.336	2.446	1.2315
6	10.06	Sulfate	BMB	2.472	7.050	23.8016
		TOTAL:		3.13	11.24	28.25



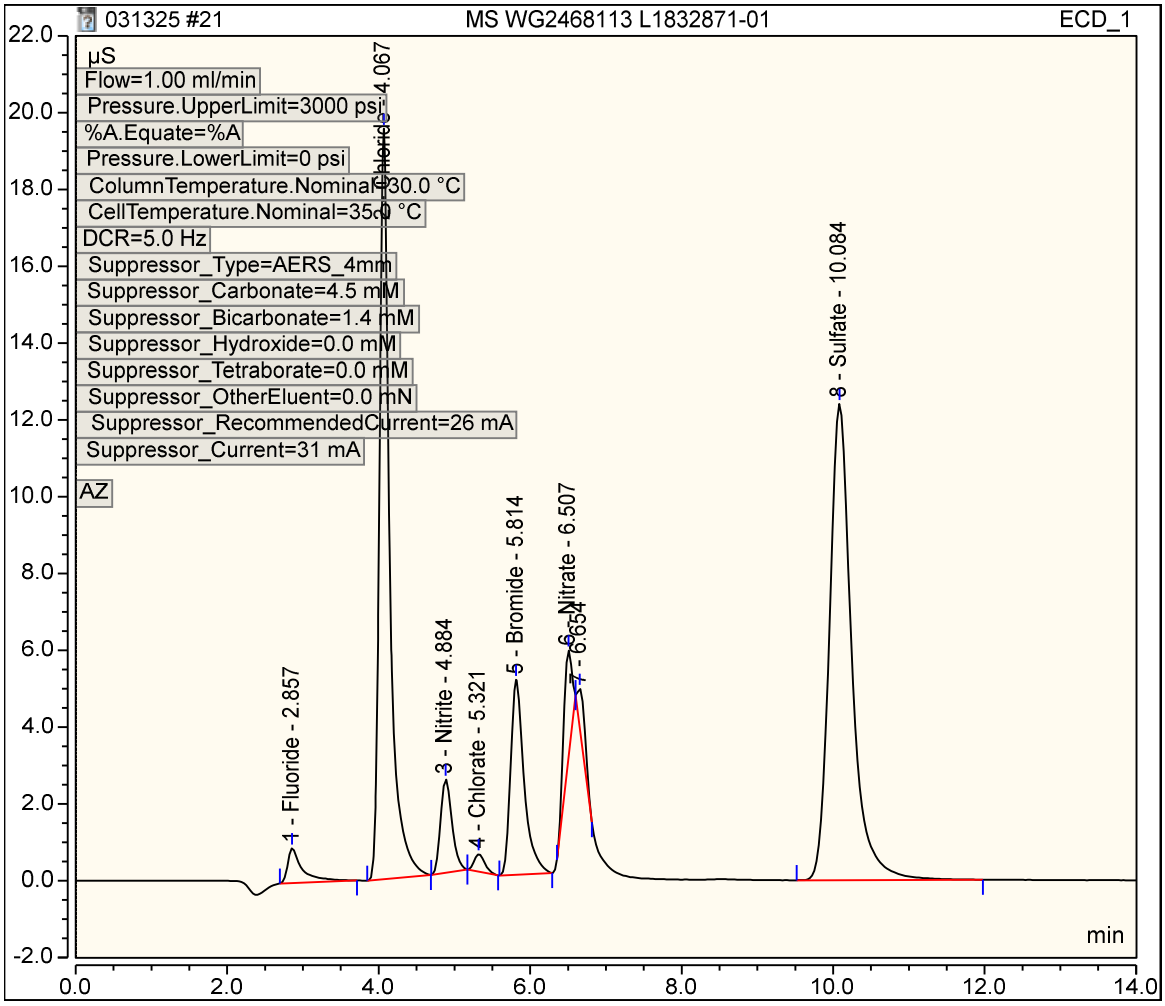
Sample Name:	**DUP WG2468113 L1832871-01**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 18:36**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.059	0.204	0.4028
2	4.06	Chloride	BMB	0.255	1.479	2.2214
3	5.83	Bromide	BMB	0.006	0.032	0.5604
4	6.52	Nitrate	BMB	0.352	2.537	1.2877
6	10.07	Sulfate	BMB	2.324	6.628	22.4006
		TOTAL:		3.00	10.88	26.87



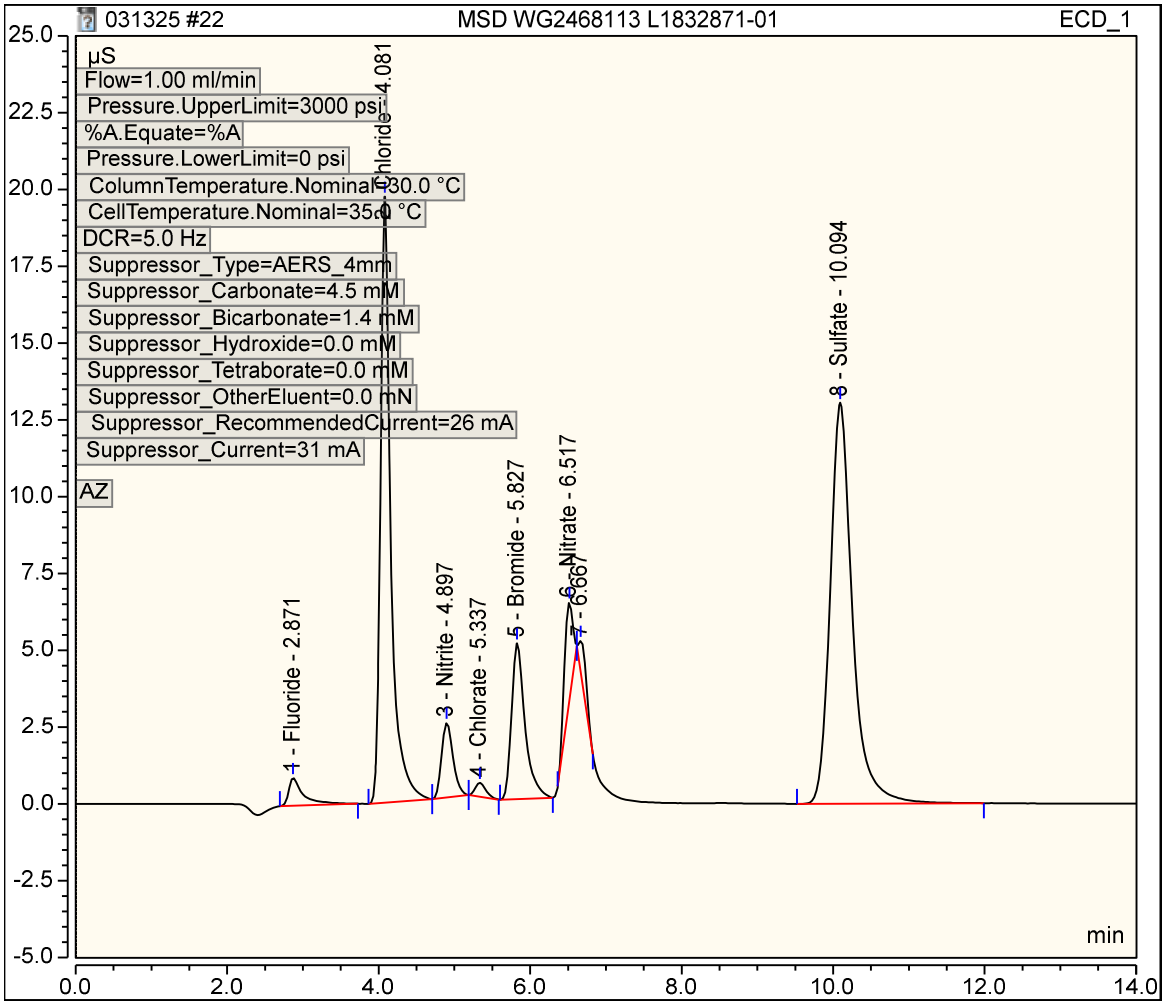
Sample Name:	**MS WG2468113 L1832871-01**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 18:53**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.208	0.908	1.2382
2	4.07	Chloride	BMB	3.099	19.544	20.2230
3	4.88	Nitrite	BMB	0.424	2.432	1.9677
4	5.32	Chlorate	BMB	0.075	0.459	3.4060
5	5.81	Bromide	BMB	1.050	5.080	18.3669
6	6.51	Nitrate	BMB	0.369	2.792	1.3491
8	10.08	Sulfate	BMB	4.238	12.402	40.5121
		TOTAL:		9.46	43.62	87.06



Sample Name:	**MSD WG2468113 L1832871-01**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 19:09**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	0.211	0.911	1.2543
2	4.08	Chloride	BMB	3.125	19.731	20.3882
3	4.90	Nitrite	BMB	0.425	2.434	1.9712
4	5.34	Chlorate	BMB	0.074	0.455	3.3617
5	5.83	Bromide	BMB	1.047	5.076	18.3203
6	6.52	Nitrate	BMB	0.435	3.219	1.5830
8	10.09	Sulfate	BMB	4.448	13.048	42.5051
		TOTAL:		9.77	44.87	89.38

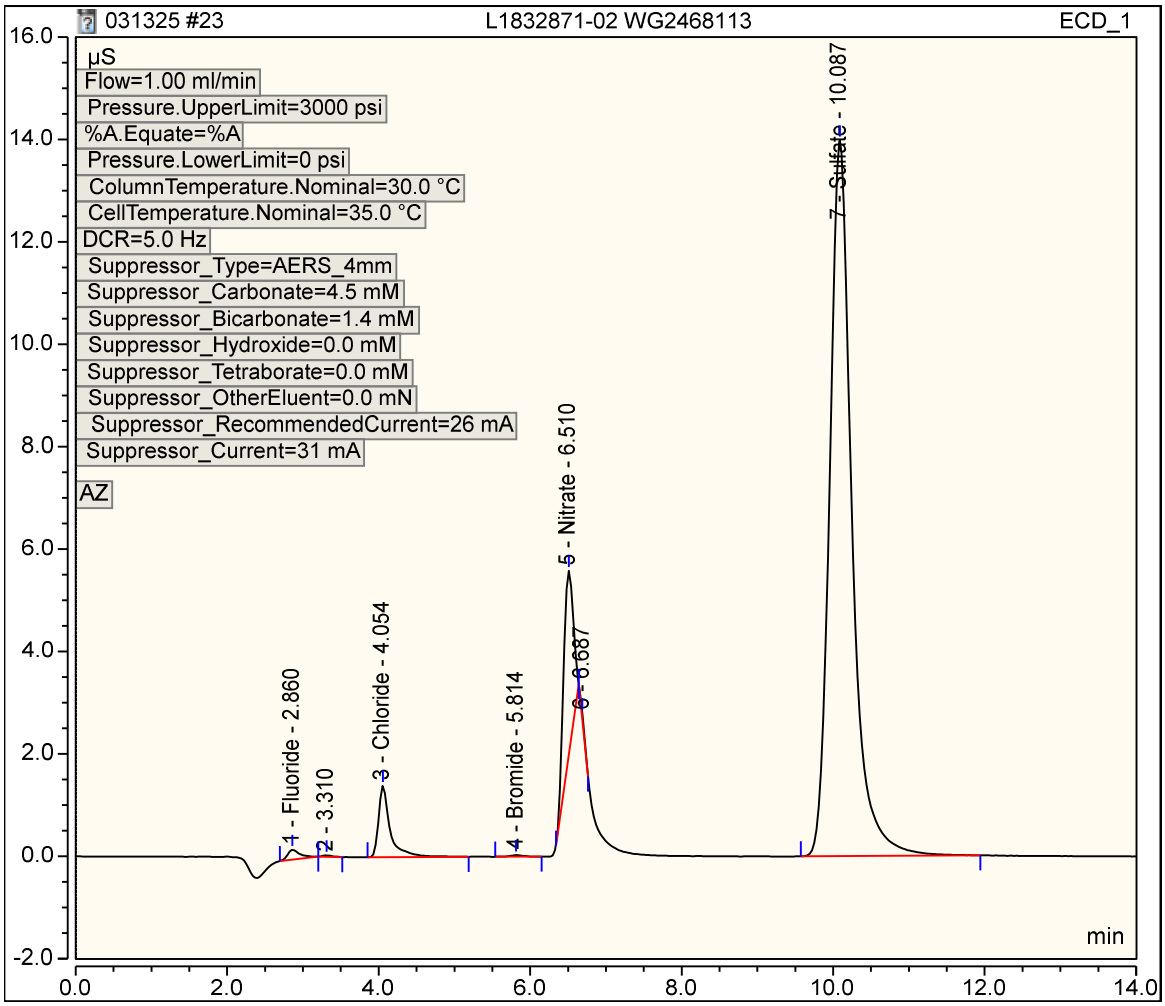


Export for Tree IC-8/Integration

PeakNet 6 (r) Dionex 2001
Version 7.2.10.23925

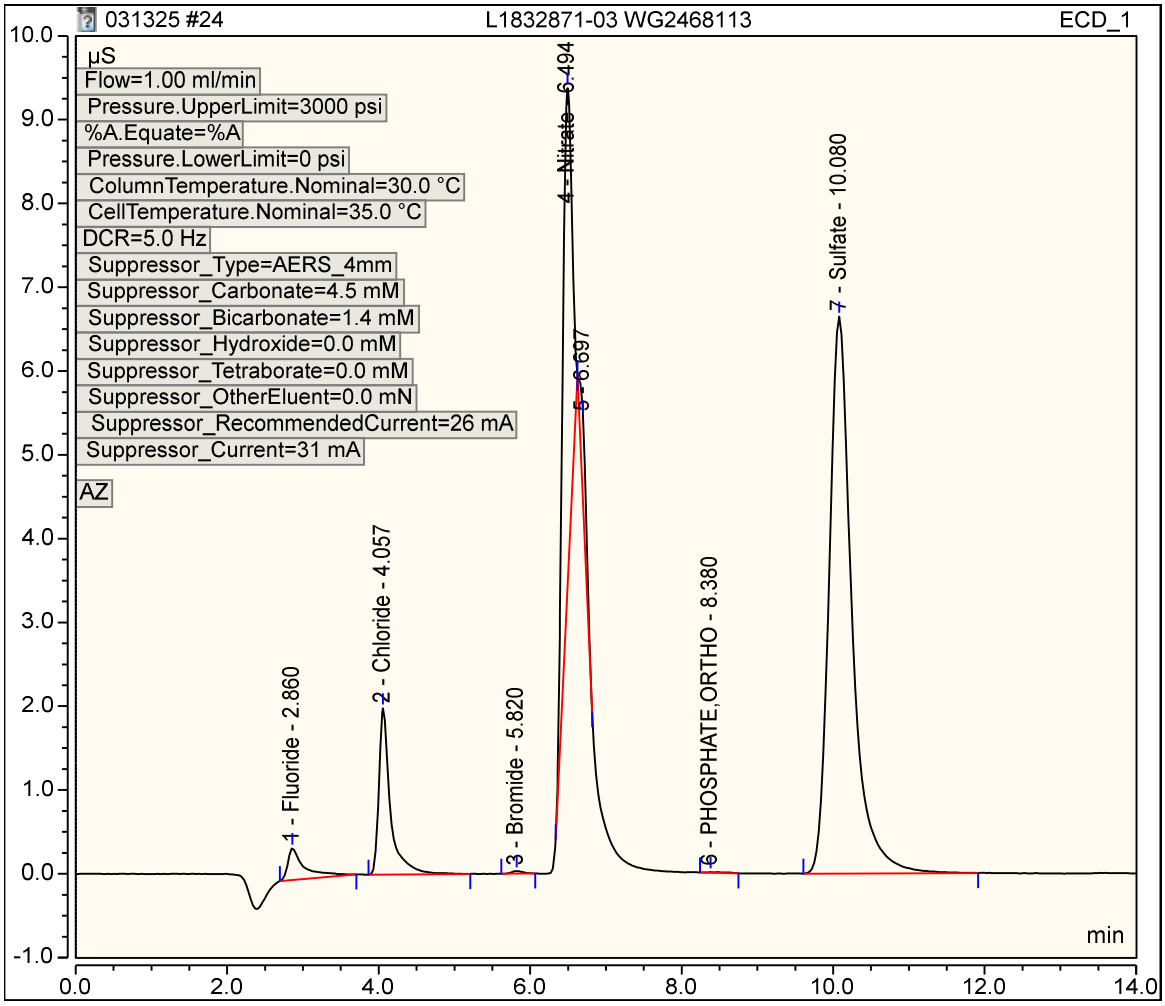
Sample Name:	**L1832871-02 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 19:26**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.036	0.191	0.2758
3	4.05	Chloride	BMB	0.249	1.396	2.1826
4	5.81	Bromide	BMB	0.006	0.032	0.5628
5	6.51	Nitrate	BMB	0.549	3.577	1.9849
7	10.09	Sulfate	BMB	4.750	13.978	45.3567
TOTAL:				5.59	19.17	50.36



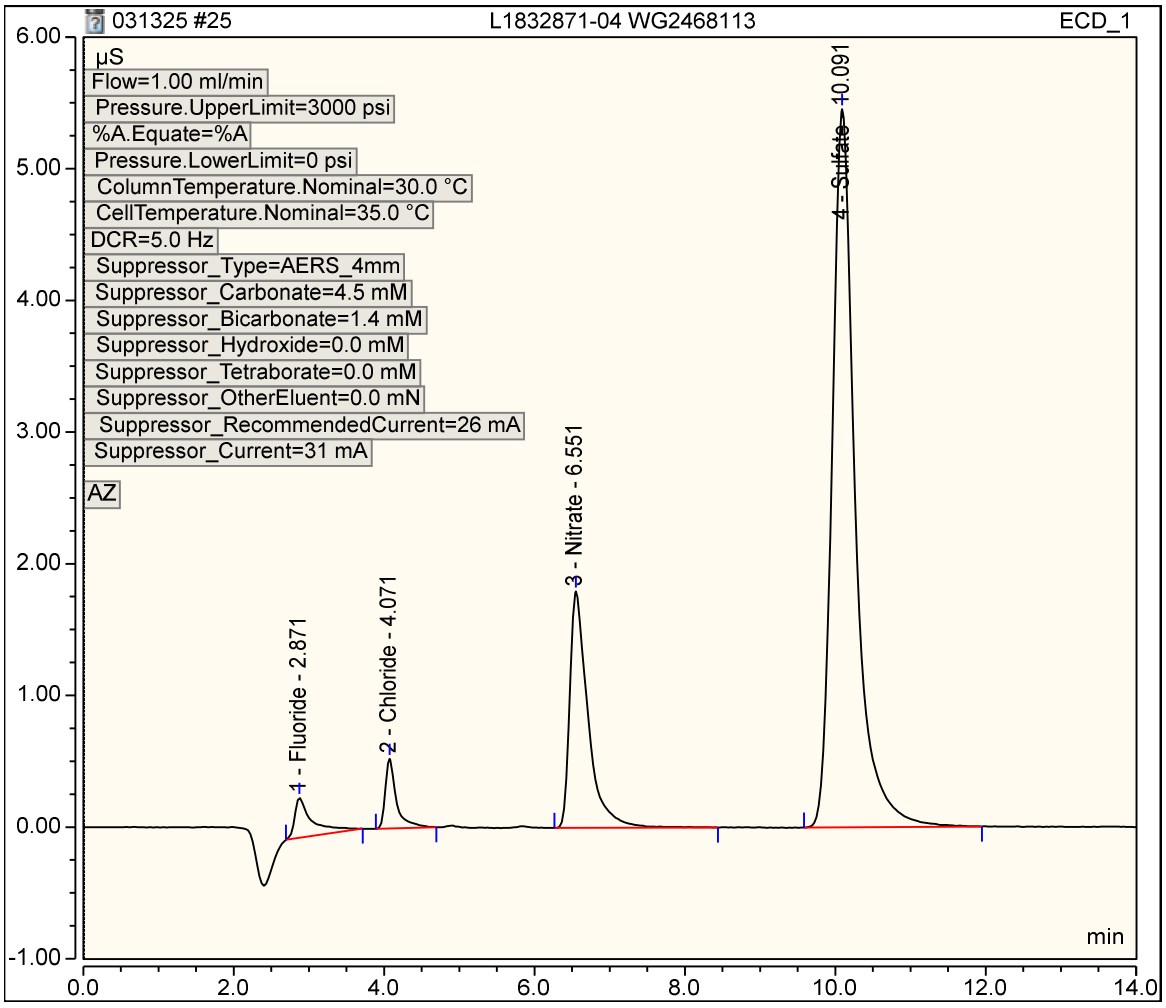
Sample Name:	**L1832871-03 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 19:43**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.097	0.378	0.6184
2	4.06	Chloride	BMB	0.350	1.984	2.8221
3	5.82	Bromide	BMB	0.006	0.031	0.5523
4	6.49	Nitrate	BMB	0.860	5.940	3.0906
6	8.38	PHOSPHATE,ORTHO	BMB	0.003	0.009	0.0208
7	10.08	Sulfate	BMB	2.331	6.647	22.4672
		TOTAL:		3.65	14.99	29.57



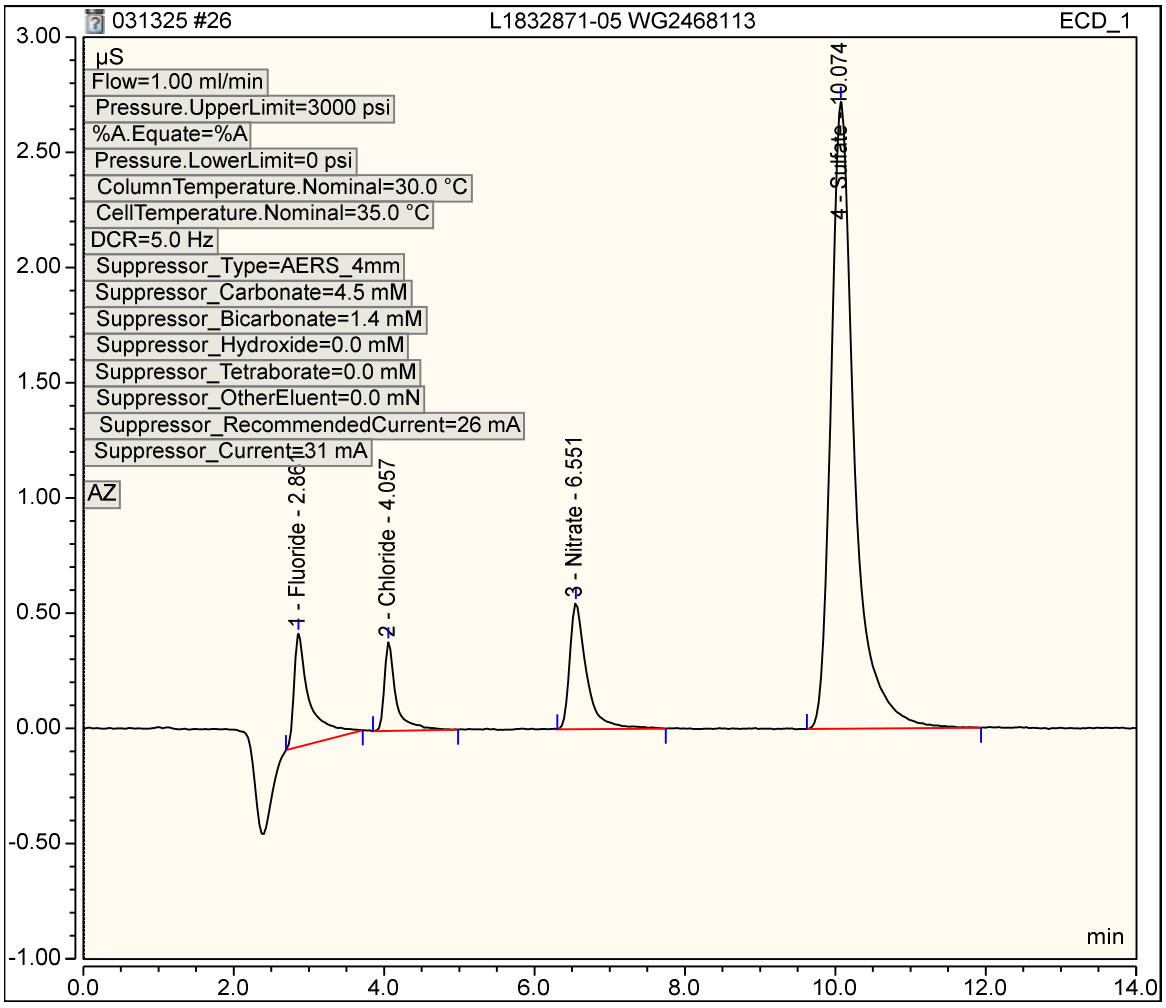
Sample Name:	**L1832871-04 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 20:00**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	0.083	0.304	0.5377
2	4.07	Chloride	BMB	0.091	0.529	1.1807
3	6.55	Nitrate	BMB	0.511	1.797	1.8534
4	10.09	Sulfate	BMB	1.938	5.456	18.7504
		TOTAL:		2.62	8.09	22.32



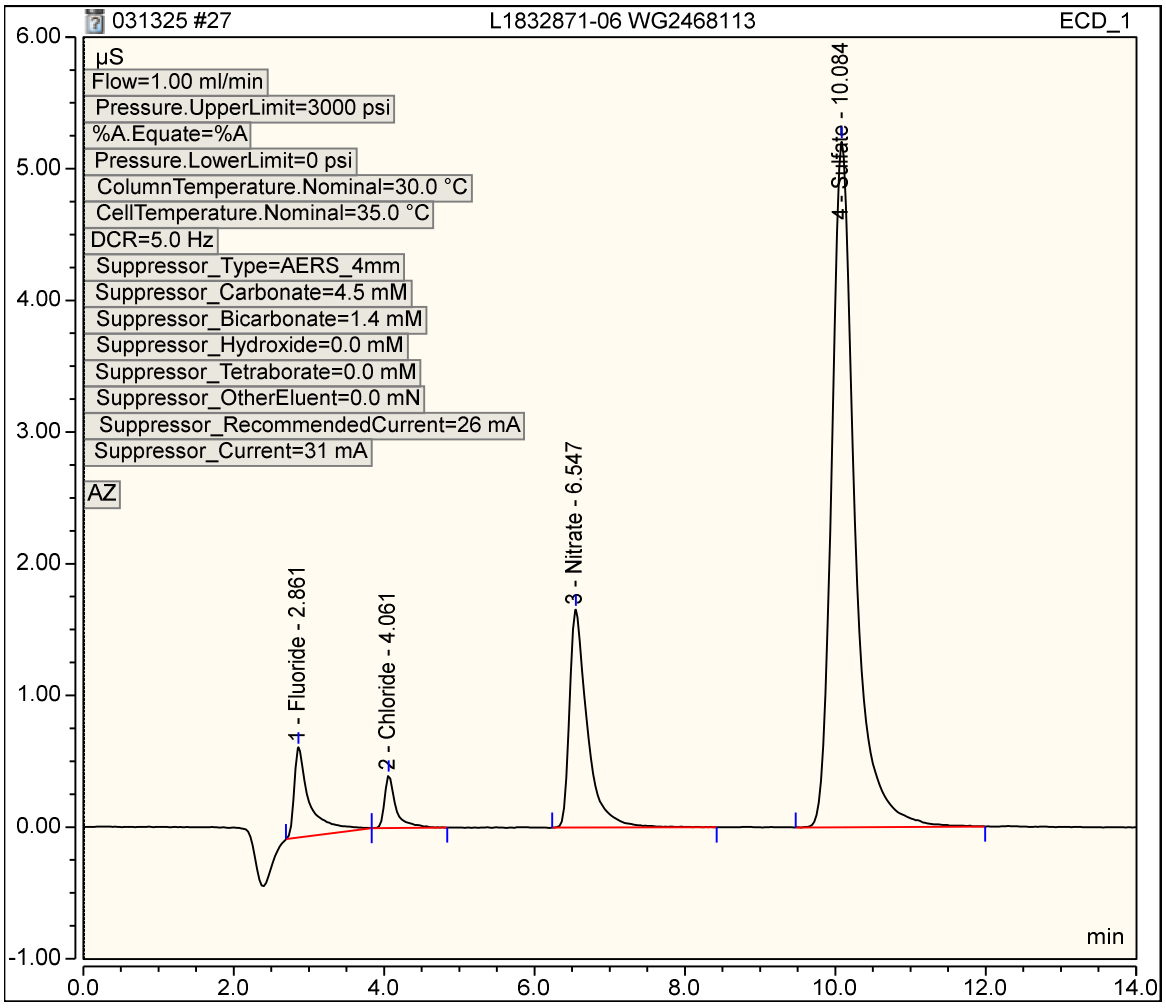
Sample Name:	**L1832871-05 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 20:17**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.121	0.491	0.7527
2	4.06	Chloride	BMB	0.070	0.385	1.0498
3	6.55	Nitrate	BMB	0.143	0.547	0.5458
4	10.07	Sulfate	BMB	0.986	2.721	9.7457
		TOTAL:		1.32	4.14	12.09



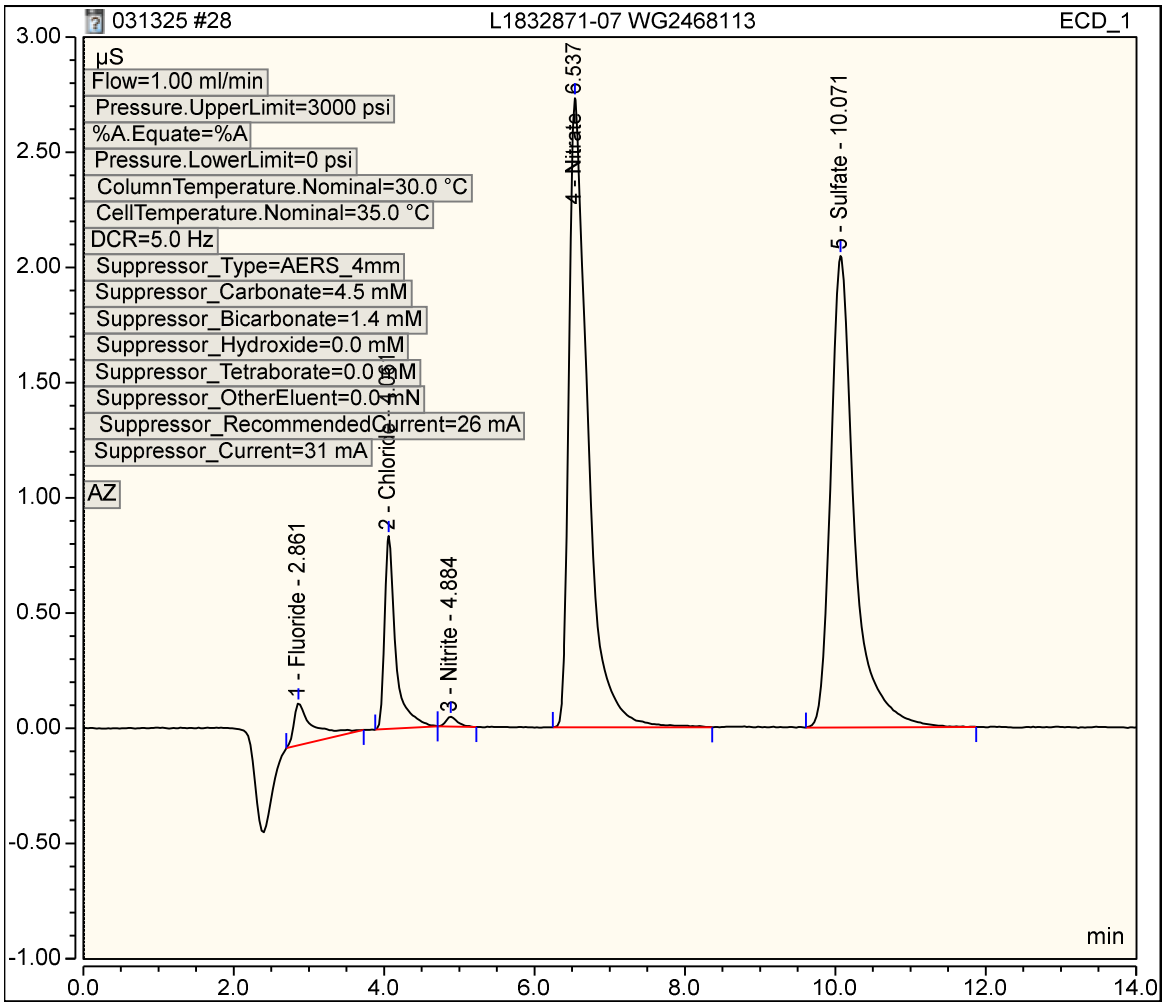
Sample Name:	**L1832871-06 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 20:34**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.169	0.685	1.0192
2	4.06	Chloride	BMB	0.071	0.400	1.0552
3	6.55	Nitrate	BMB	0.460	1.656	1.6715
4	10.08	Sulfate	BMB	1.858	5.206	17.9948
		TOTAL:		2.56	7.95	21.74



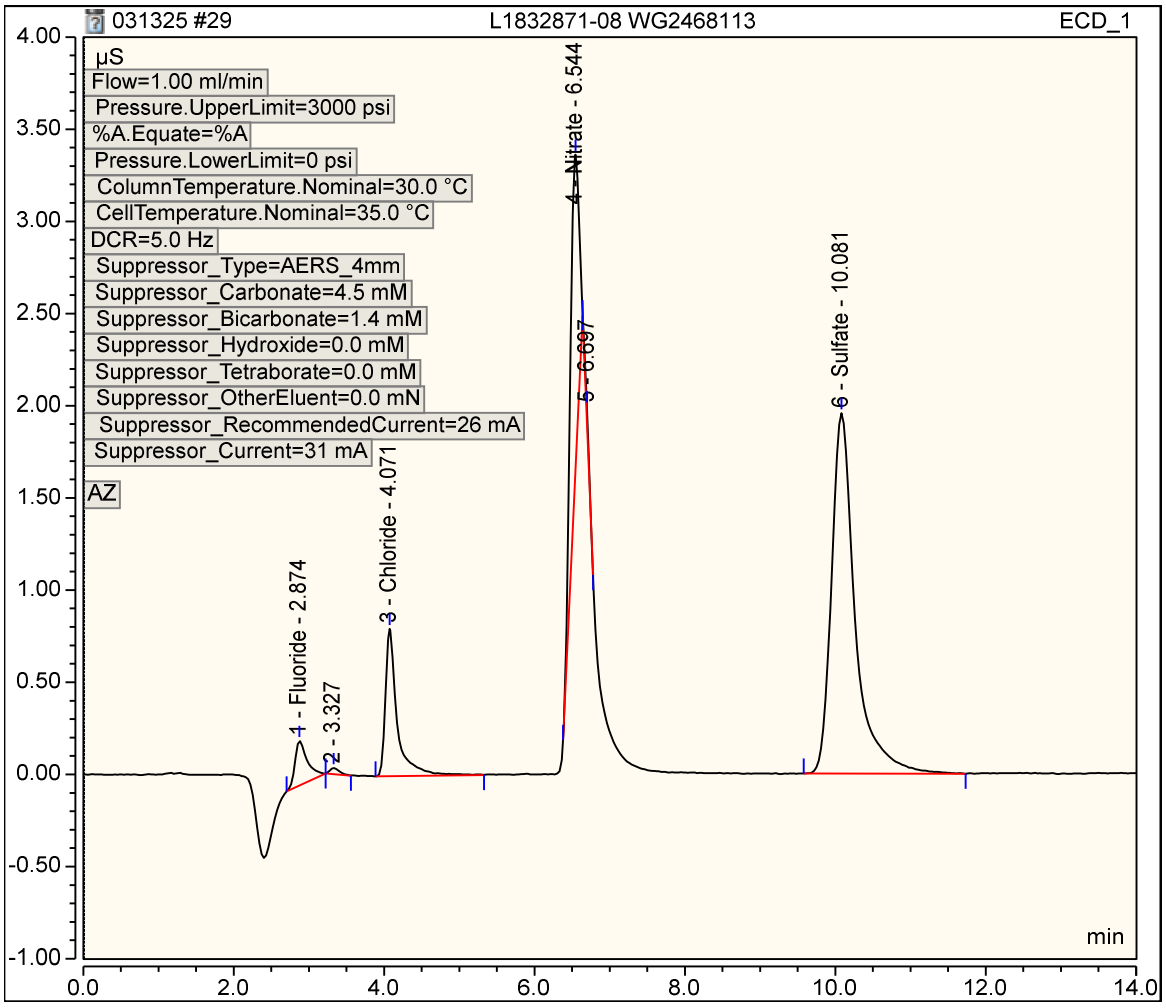
Sample Name:	**L1832871-07 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 20:51**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.054	0.182	0.3752
2	4.06	Chloride	BMB	0.144	0.838	1.5195
3	4.88	Nitrite	BMB	0.008	0.043	0.0850
4	6.54	Nitrate	BMB	0.802	2.730	2.8862
5	10.07	Sulfate	BMB	0.749	2.047	7.5009
		TOTAL:		1.76	5.84	12.37



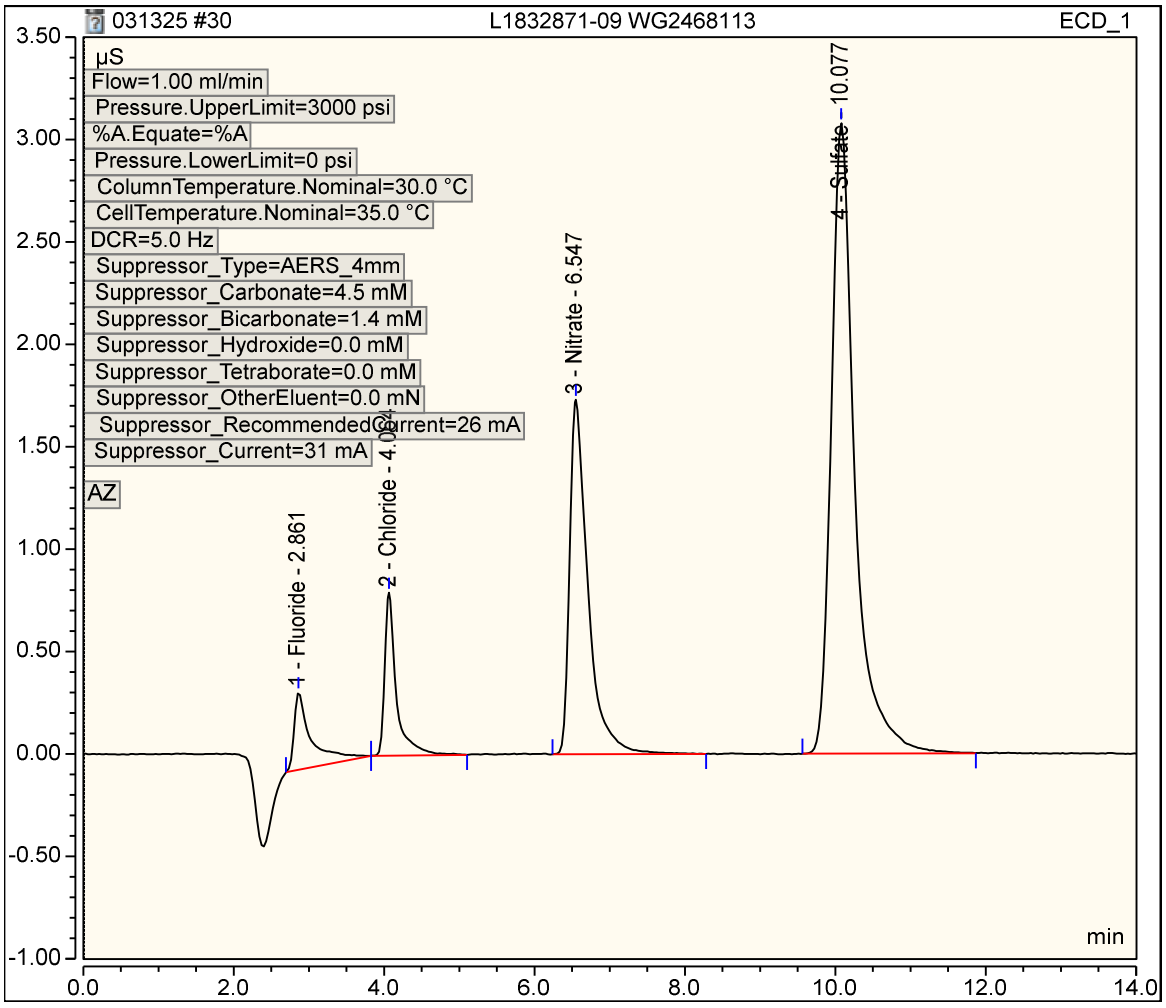
Sample Name:	**L1832871-08 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 21:08**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	0.046	0.242	0.3325
3	4.07	Chloride	BMB	0.146	0.800	1.5280
4	6.54	Nitrate	BMB	0.240	1.727	0.8893
6	10.08	Sulfate	BMB	0.713	1.955	7.1607
		TOTAL:		1.15	4.72	9.91



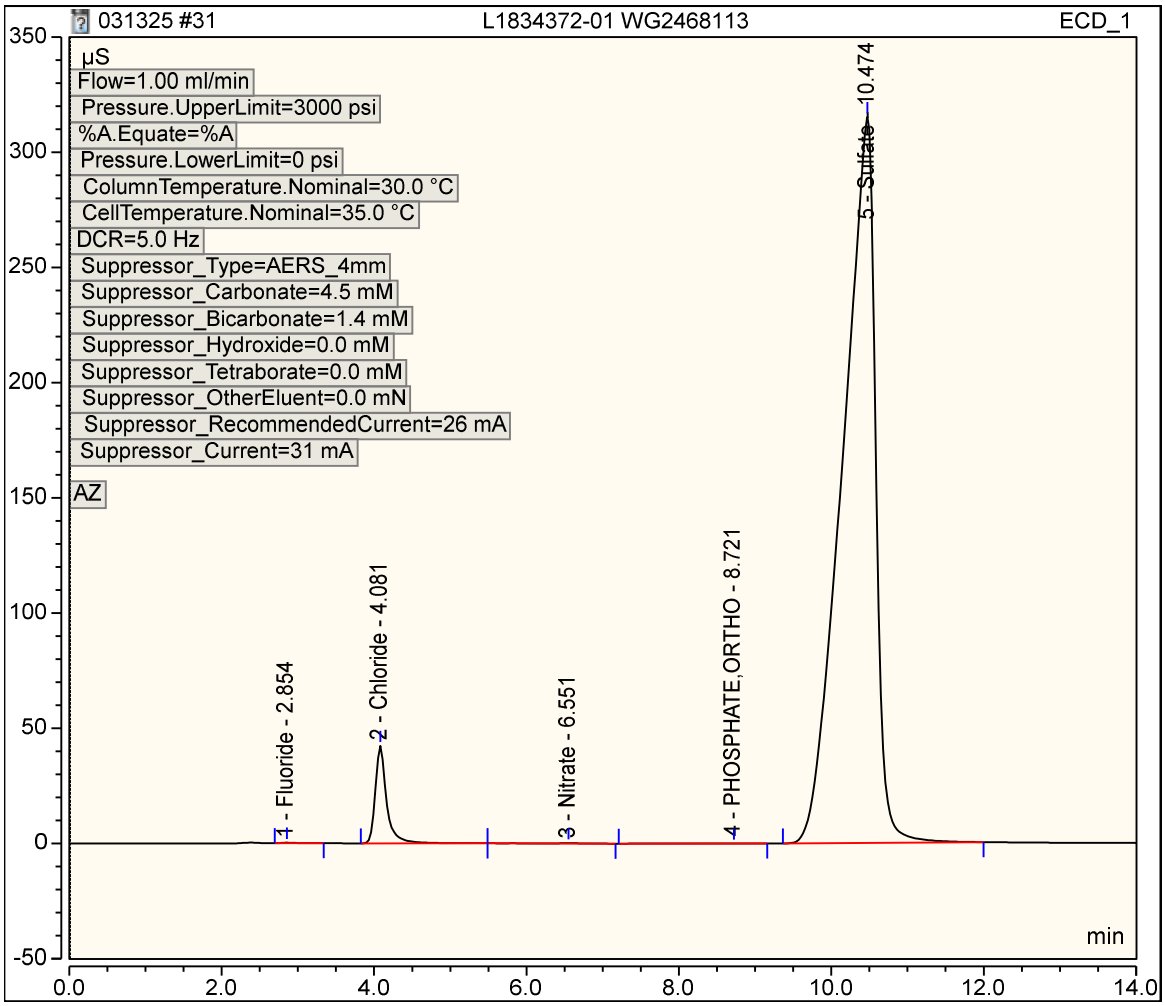
Sample Name:	**L1832871-09 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 21:24**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.102	0.380	0.6435
2	4.06	Chloride	BMB	0.142	0.795	1.5070
3	6.55	Nitrate	BMB	0.491	1.730	1.7801
4	10.08	Sulfate	BMB	1.117	3.078	10.9765
		TOTAL:		1.85	5.98	14.91



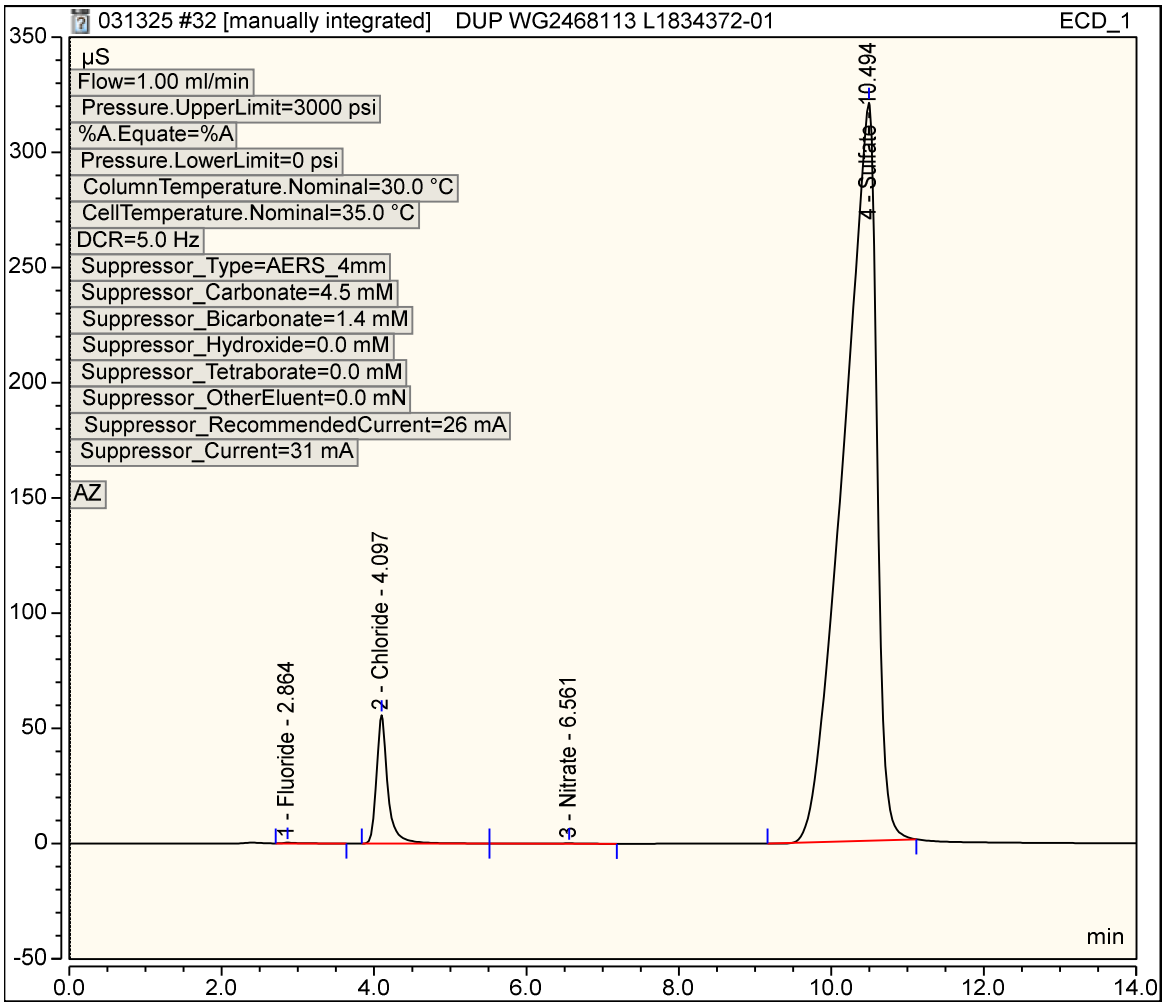
Sample Name:	**L1834372-01 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 21:41**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.85	Fluoride	BMB	0.066	0.274	0.4417
2	4.08	Chloride	BMB	7.259	42.306	46.5522
3	6.55	Nitrate	BMB	0.100	0.178	0.3910
4	8.72	PHOSPHATE,ORTHO	BMB	0.082	0.027	0.7447
5	10.47	Sulfate	BMB	157.225	314.966	1488.1967
TOTAL:				164.73	357.75	1536.33



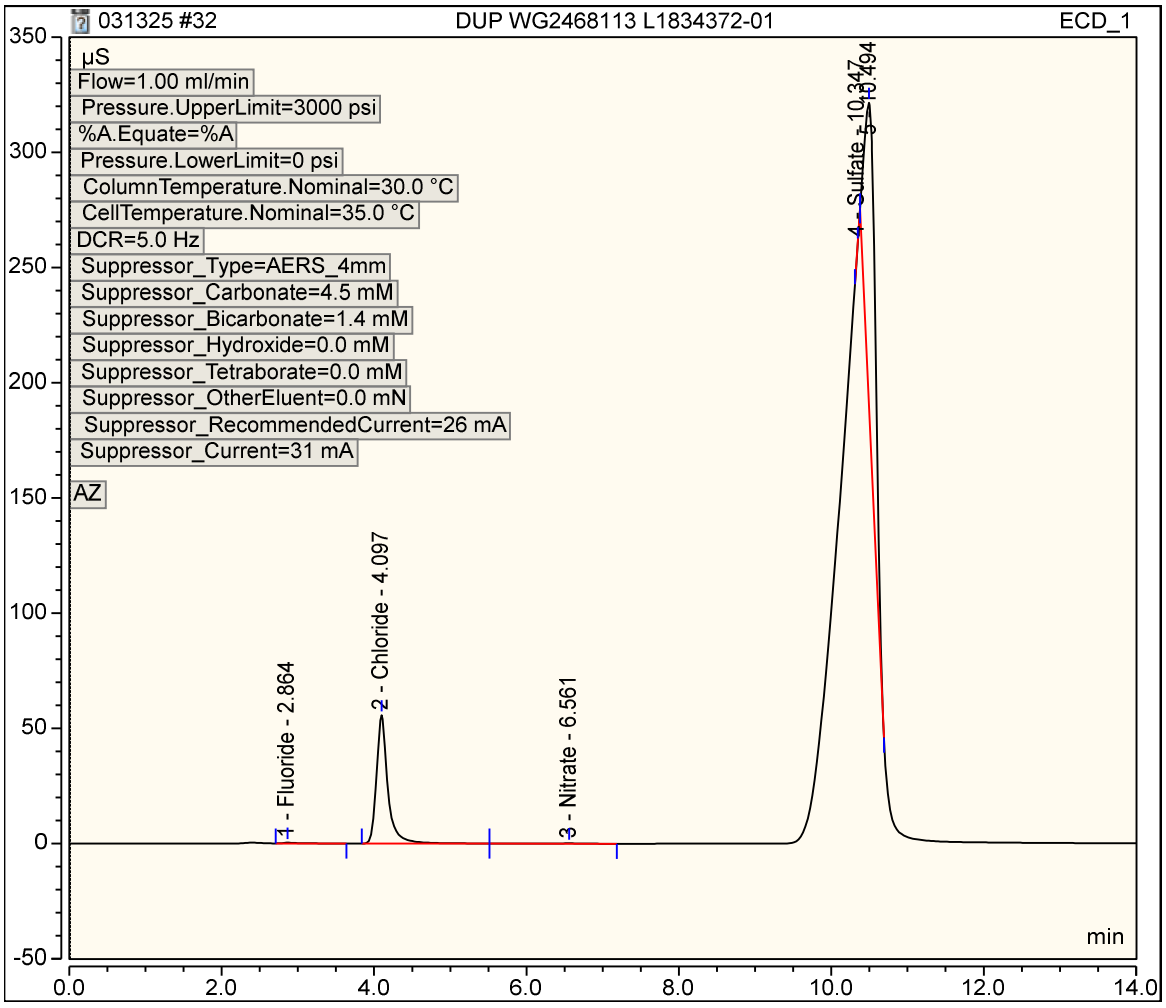
Sample Name:	**DUP WG2468113 L1834372-01**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**BA: ZSA3747 03/14/25**
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 21:58**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.073	0.301	0.4842
2	4.10	Chloride	BMB	9.558	55.693	61.1047
3	6.56	Nitrate	BMB	0.106	0.181	0.4130
4	10.49	Sulfate	BMB*	160.752	320.264	1521.5711
		TOTAL:		170.49	376.44	1583.57



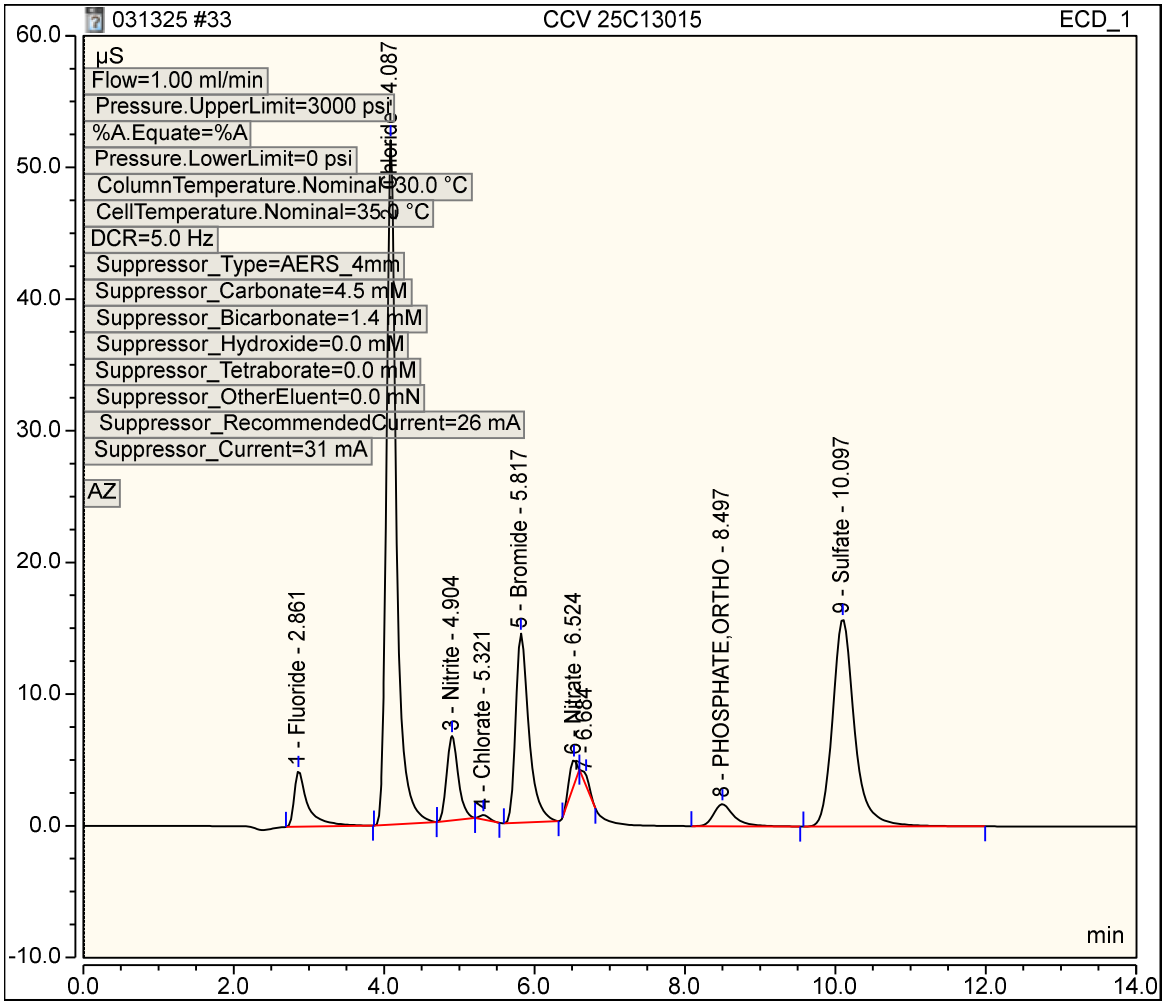
Sample Name:	**DUP WG2468113 L1834372-01**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 21:58**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.073	0.301	0.4842
2	4.10	Chloride	BMB	9.558	55.693	61.1047
3	6.56	Nitrate	BMB	0.106	0.181	0.4130
4	10.35	Sulfate	BMB	0.003	0.095	0.4425
		TOTAL:		9.74	56.27	62.44



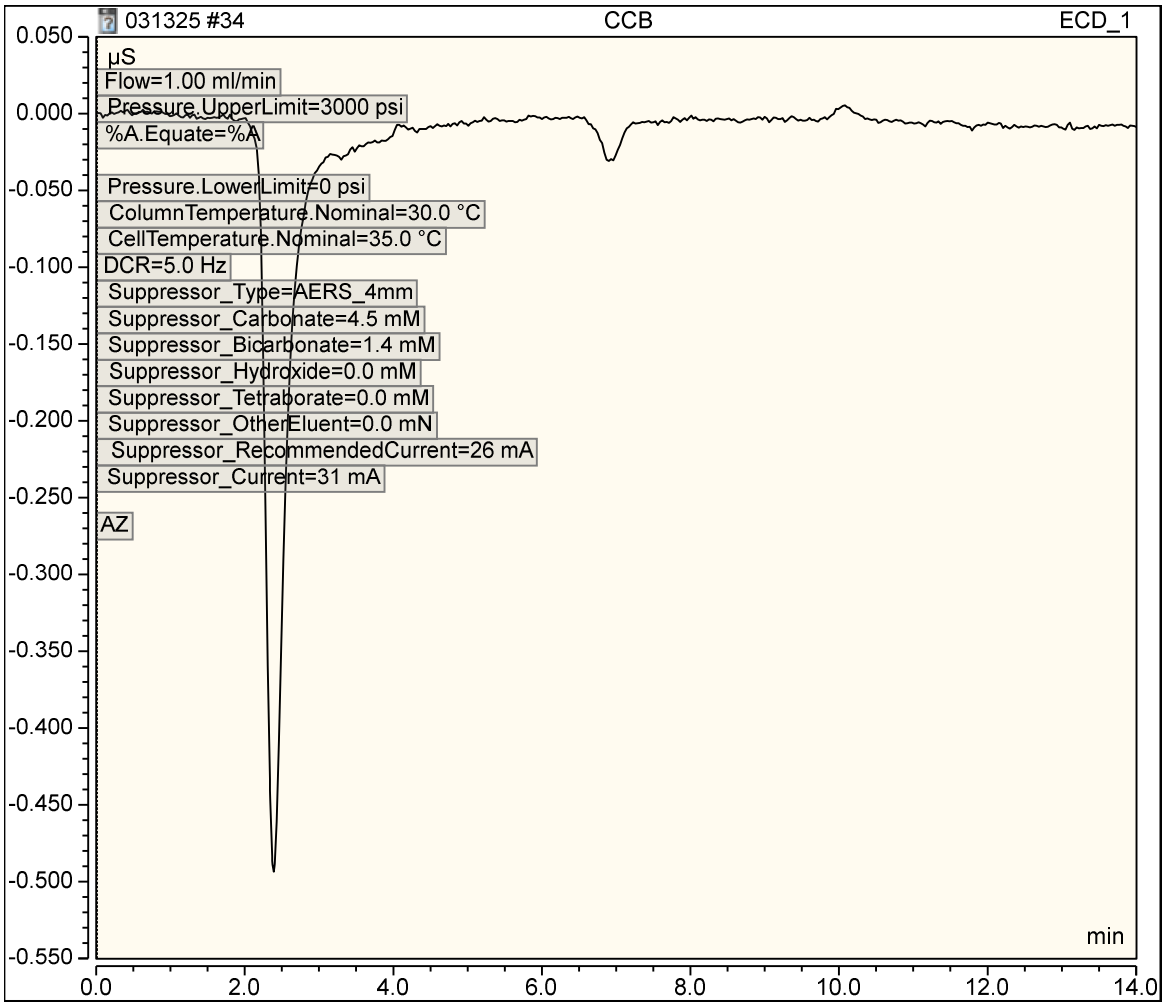
Sample Name:	**CCV 25C13015**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 22:15**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.908	4.246	5.1650
2	4.09	Chloride	BMB	8.074	51.994	51.7103
3	4.90	Nitrite	BMB	1.144	6.405	5.2287
4	5.32	Chlorate	BMB	0.049	0.335	2.2052
5	5.82	Bromide	BMB	2.960	14.366	50.9429
6	6.52	Nitrate	BMB	0.246	1.896	0.9106
8	8.50	PHOSPHATE,ORTHO	BMB	0.532	1.676	4.8653
9	10.10	Sulfate	BMB	5.324	15.764	50.7894
		TOTAL:		19.24	96.68	171.82



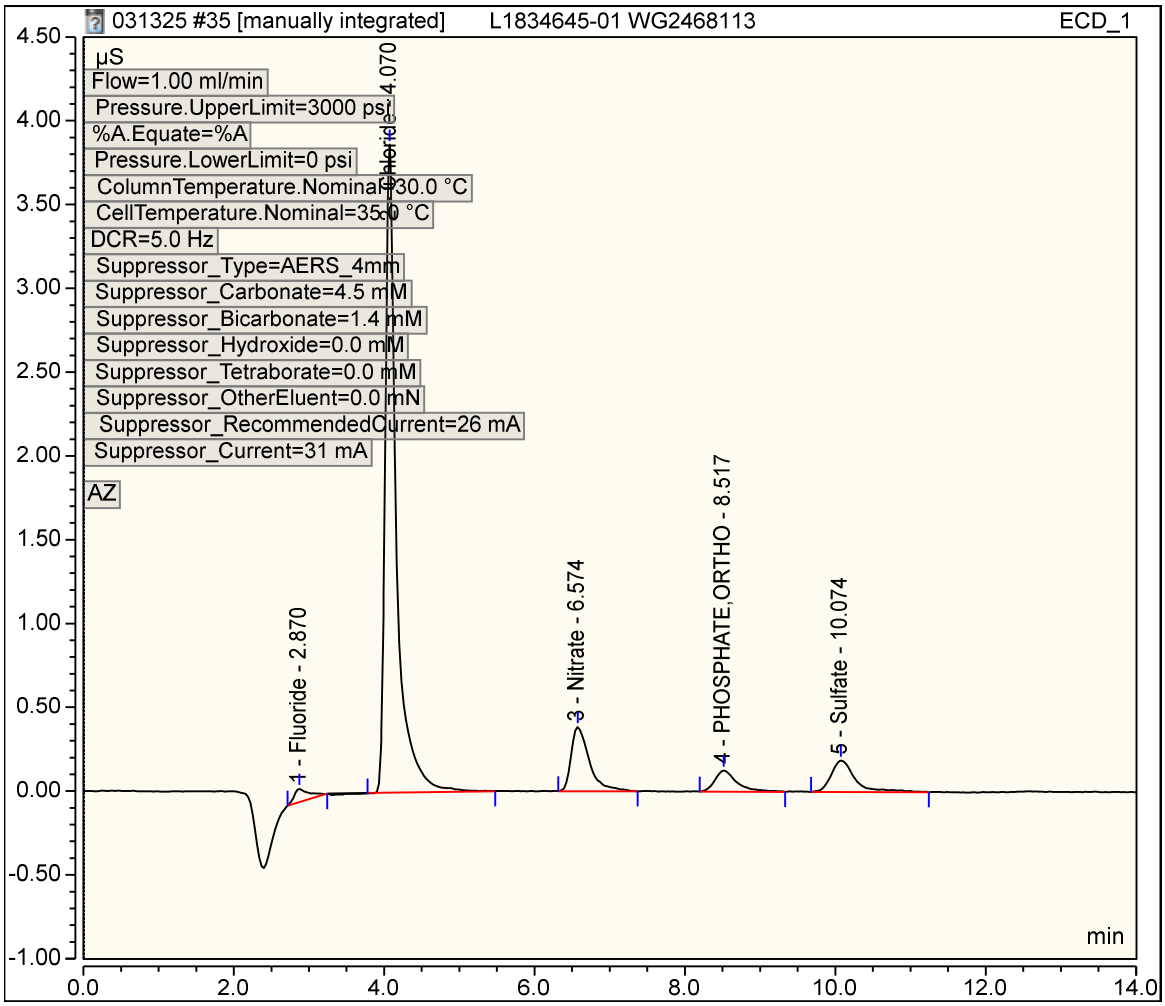
Sample Name:	**CCB**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 22:32**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount n.a.
		TOTAL:		0.00	0.00	0.00



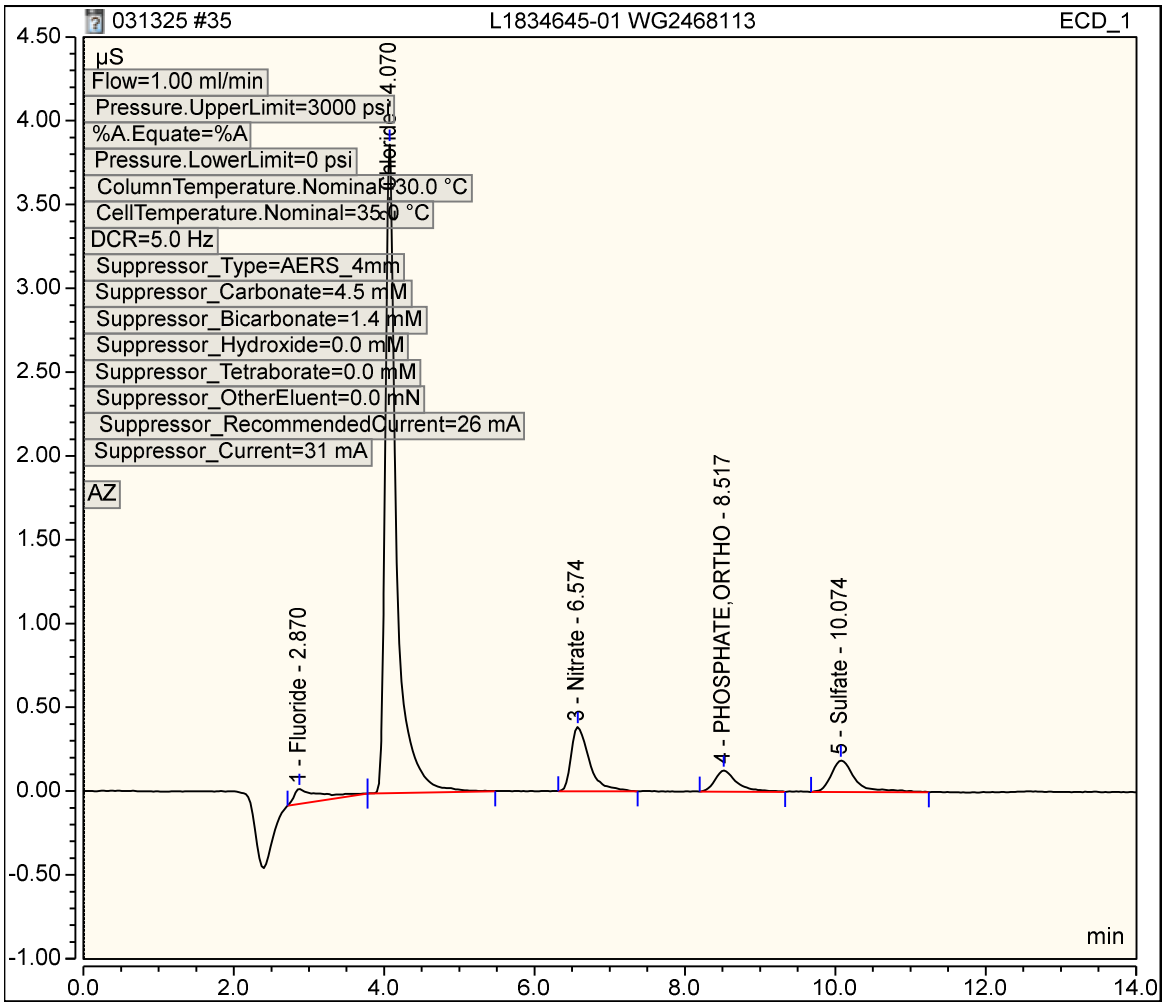
Sample Name:	**L1834645-01 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 22:49**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BM *	0.018	0.079	0.1716
2	4.07	Chloride	MB*	0.669	3.866	4.8390
3	6.57	Nitrate	BMB	0.107	0.384	0.4185
4	8.52	PHOSPHATE,ORTHO	BMB	0.043	0.126	0.3846
5	10.07	Sulfate	BMB	0.071	0.189	1.0800
		TOTAL:		0.91	4.64	6.89



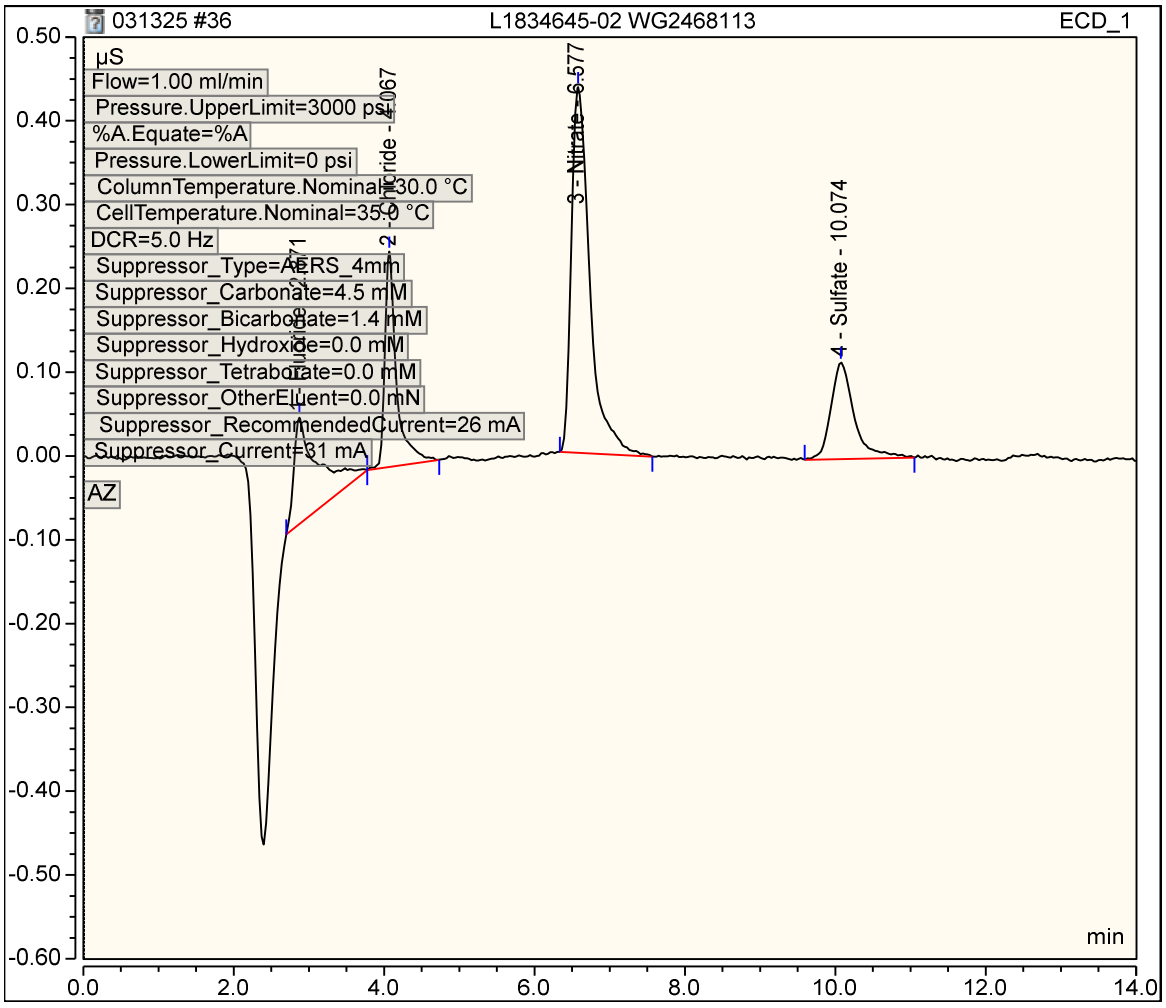
Sample Name:	**L1834645-01 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 22:49**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	0.035	0.090	0.2698
2	4.07	Chloride	BMB	0.672	3.869	4.8562
3	6.57	Nitrate	BMB	0.107	0.384	0.4185
4	8.52	PHOSPHATE,ORTHO	BMB	0.043	0.126	0.3846
5	10.07	Sulfate	BMB	0.071	0.189	1.0800
		TOTAL:		0.93	4.66	7.01



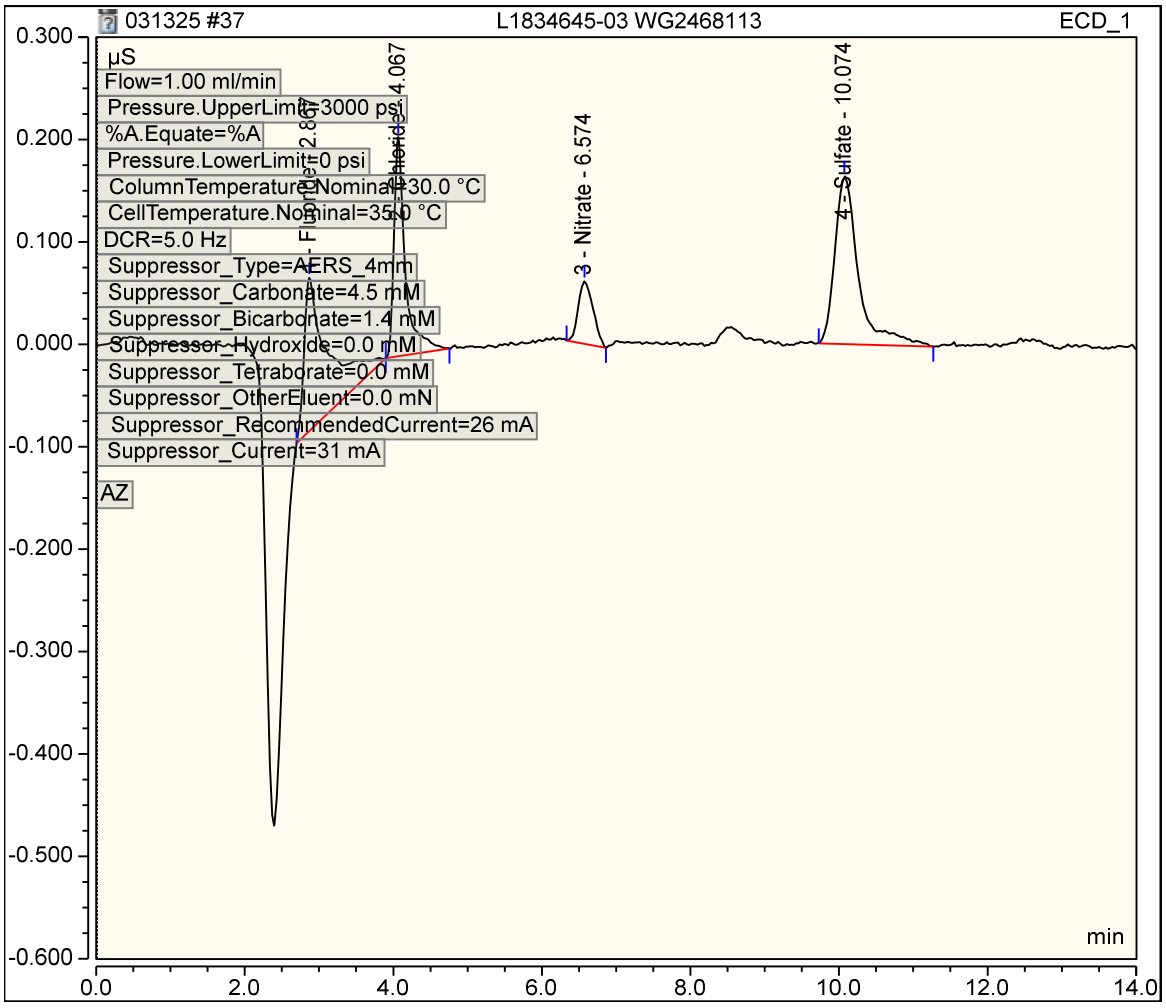
Sample Name:	**L1834645-02 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 23:06**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	0.047	0.127	0.3352
2	4.07	Chloride	BMB	0.046	0.257	0.8967
3	6.58	Nitrate	BMB	0.126	0.437	0.4831
4	10.07	Sulfate	BMB	0.042	0.115	0.8040
		TOTAL:		0.26	0.94	2.52



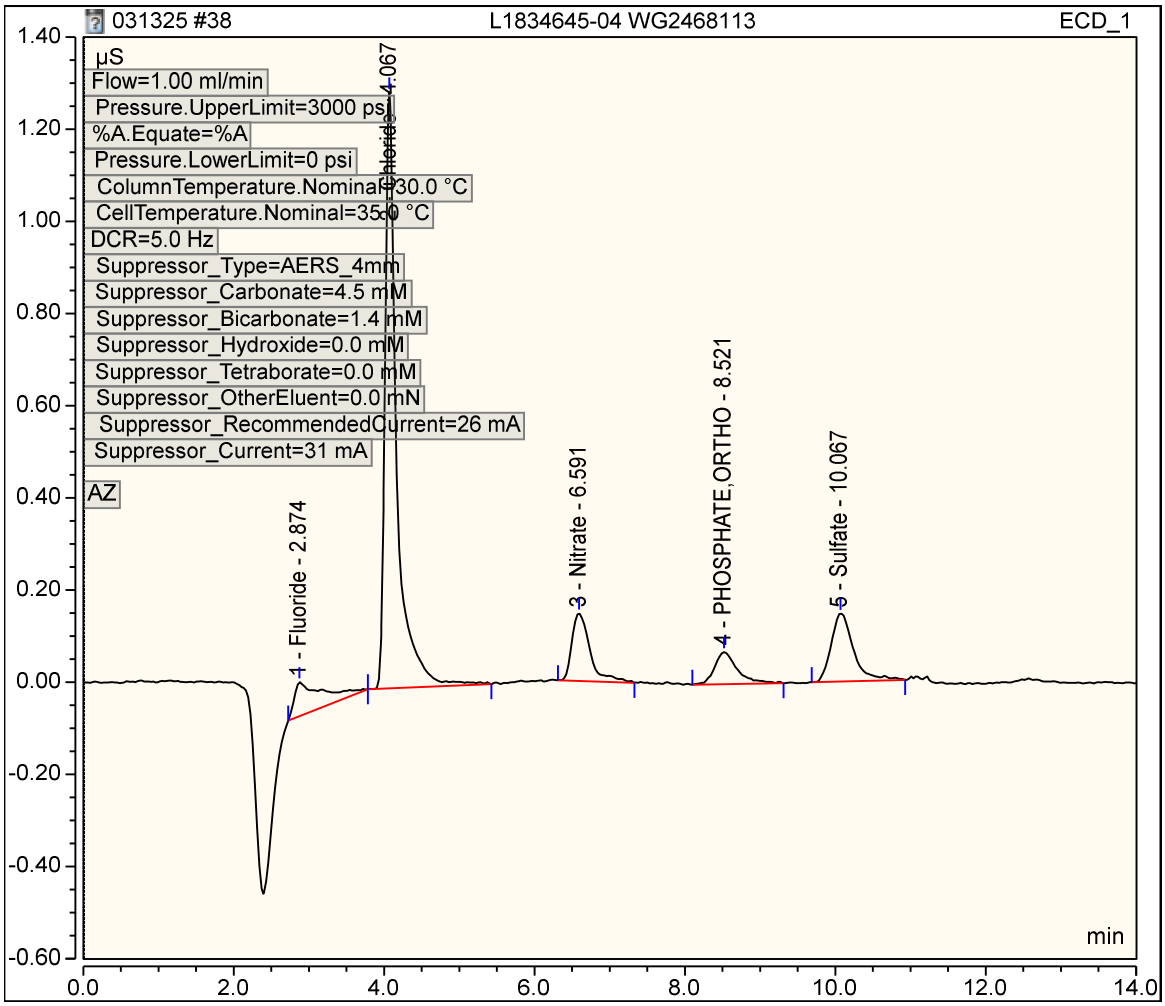
Sample Name:	**L1834645-03 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 23:23**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	0.055	0.150	0.3806
2	4.07	Chloride	BMB	0.038	0.214	0.8432
3	6.57	Nitrate	BMB	0.014	0.061	0.0872
4	10.07	Sulfate	BMB	0.060	0.164	0.9796
		TOTAL:		0.17	0.59	2.29



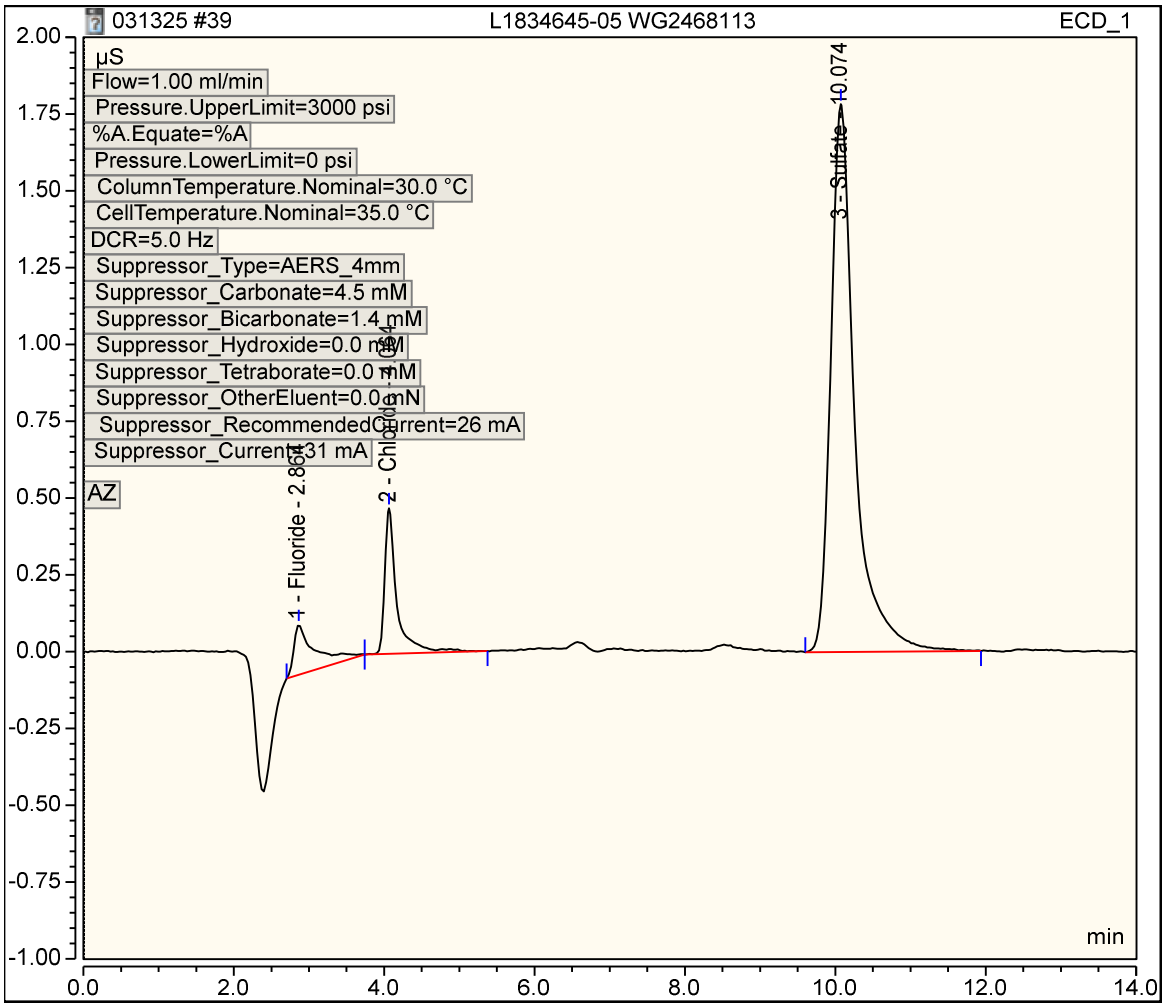
Sample Name:	**L1834645-04 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 23:39**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	0.031	0.074	0.2449
2	4.07	Chloride	BMB	0.233	1.293	2.0798
3	6.59	Nitrate	BMB	0.041	0.147	0.1831
4	8.52	PHOSPHATE,ORTHO	BMB	0.025	0.070	0.2216
5	10.07	Sulfate	BMB	0.051	0.148	0.8909
		TOTAL:		0.38	1.73	3.62



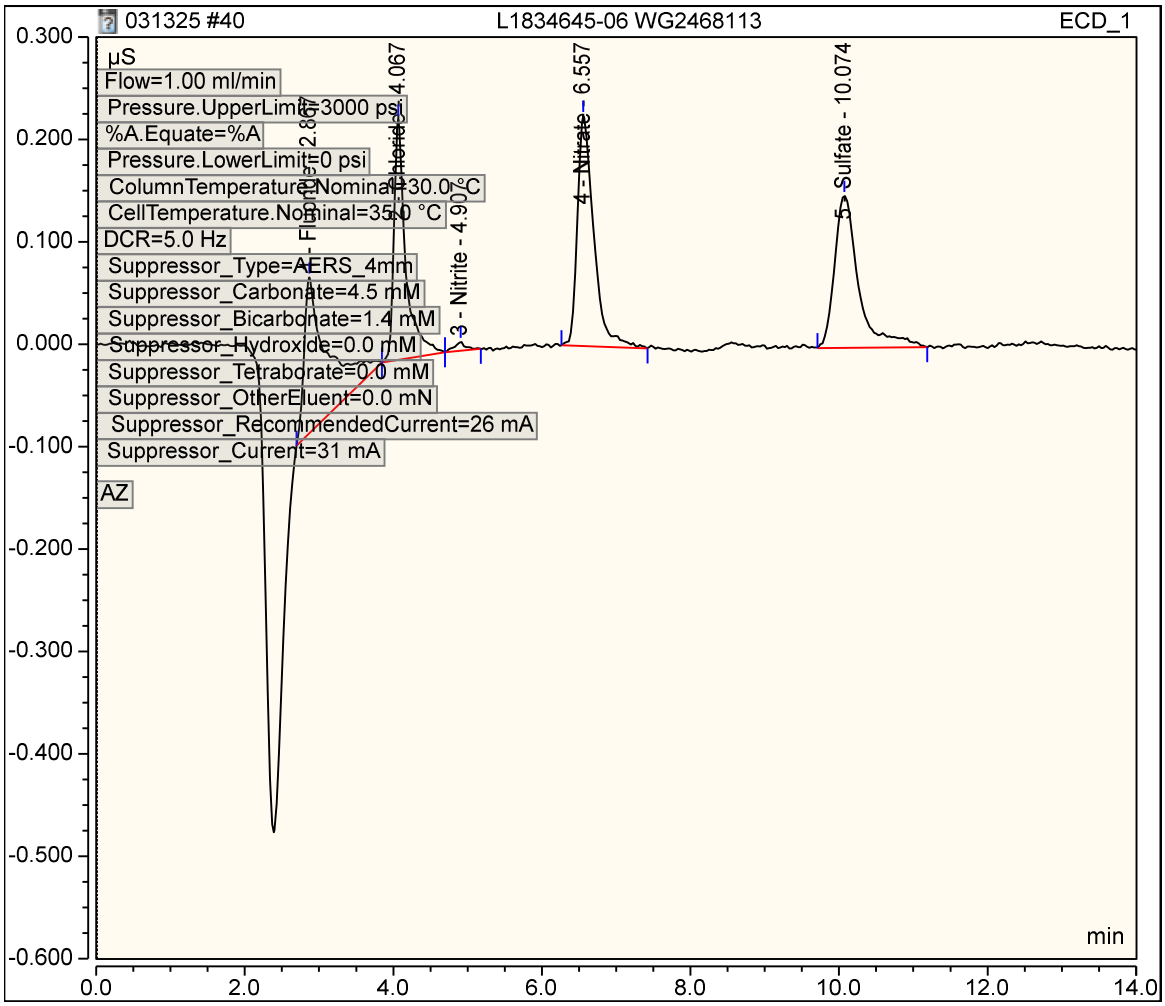
Sample Name:	**L1834645-05 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/13/25 23:56**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.052	0.163	0.3673
2	4.06	Chloride	BMB	0.089	0.474	1.1698
3	10.07	Sulfate	BMB	0.657	1.783	6.6303
TOTAL:				0.80	2.42	8.17



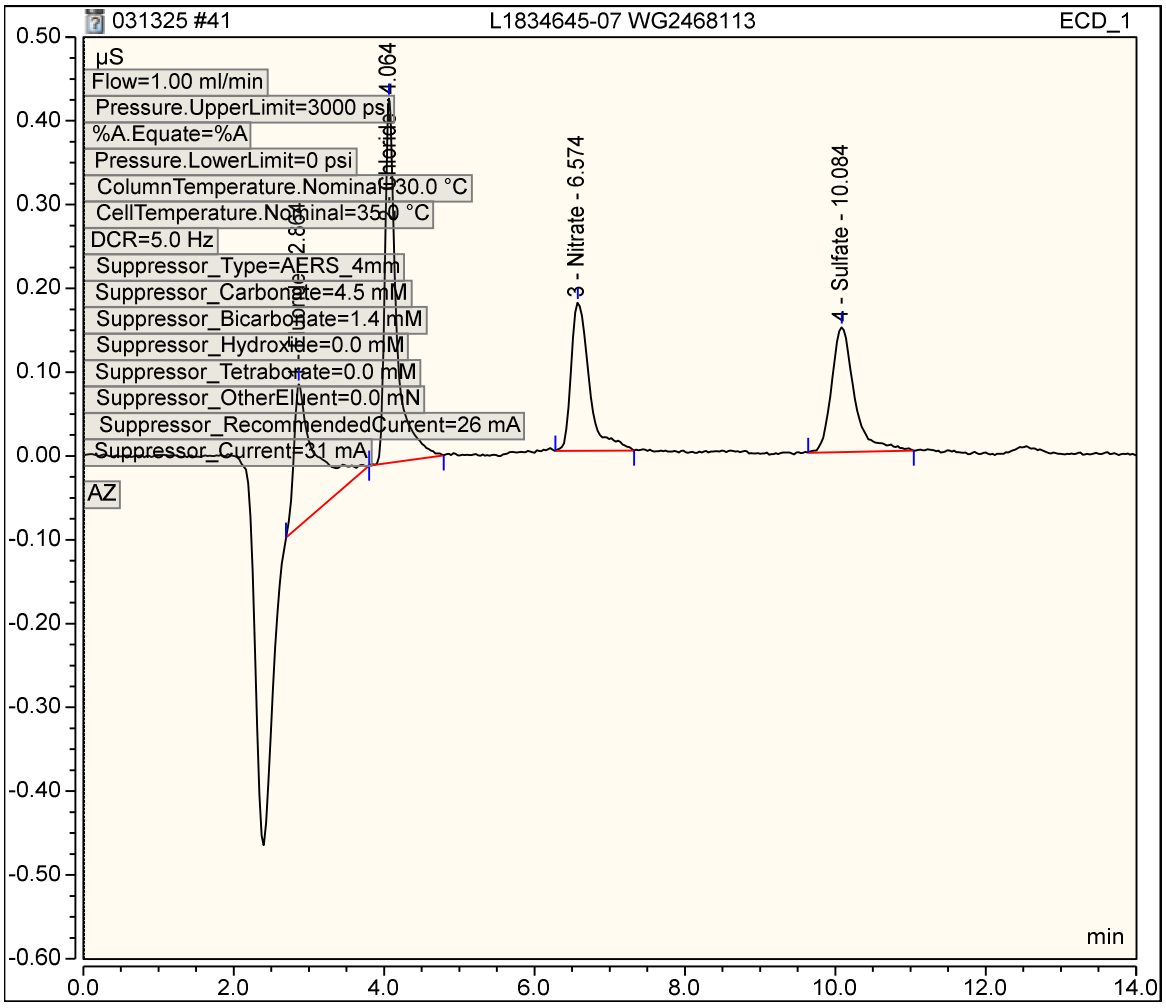
Sample Name:	**L1834645-06 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/14/25 00:13**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	0.055	0.152	0.3817
2	4.07	Chloride	BMB	0.043	0.234	0.8780
3	4.91	Nitrite	BMB	0.002	0.009	0.0570
4	6.56	Nitrate	BMB	0.057	0.225	0.2400
5	10.07	Sulfate	BMB	0.056	0.149	0.9375
		TOTAL:		0.21	0.77	2.49



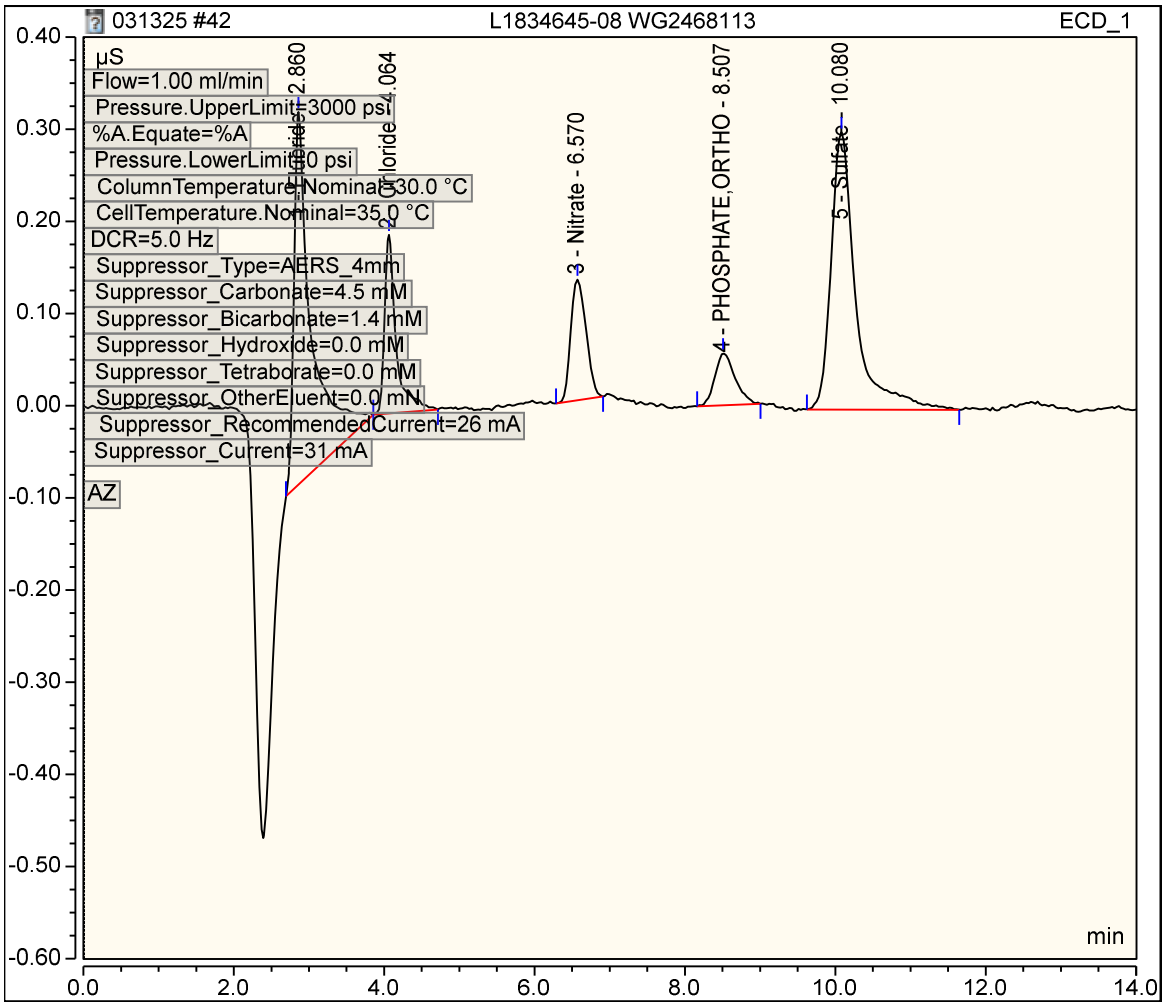
Sample Name:	**L1834645-07 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/14/25 00:30**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.058	0.170	0.3990
2	4.06	Chloride	BMB	0.078	0.435	1.0960
3	6.57	Nitrate	BMB	0.050	0.176	0.2148
4	10.08	Sulfate	BMB	0.053	0.149	0.9103
		TOTAL:		0.24	0.93	2.62



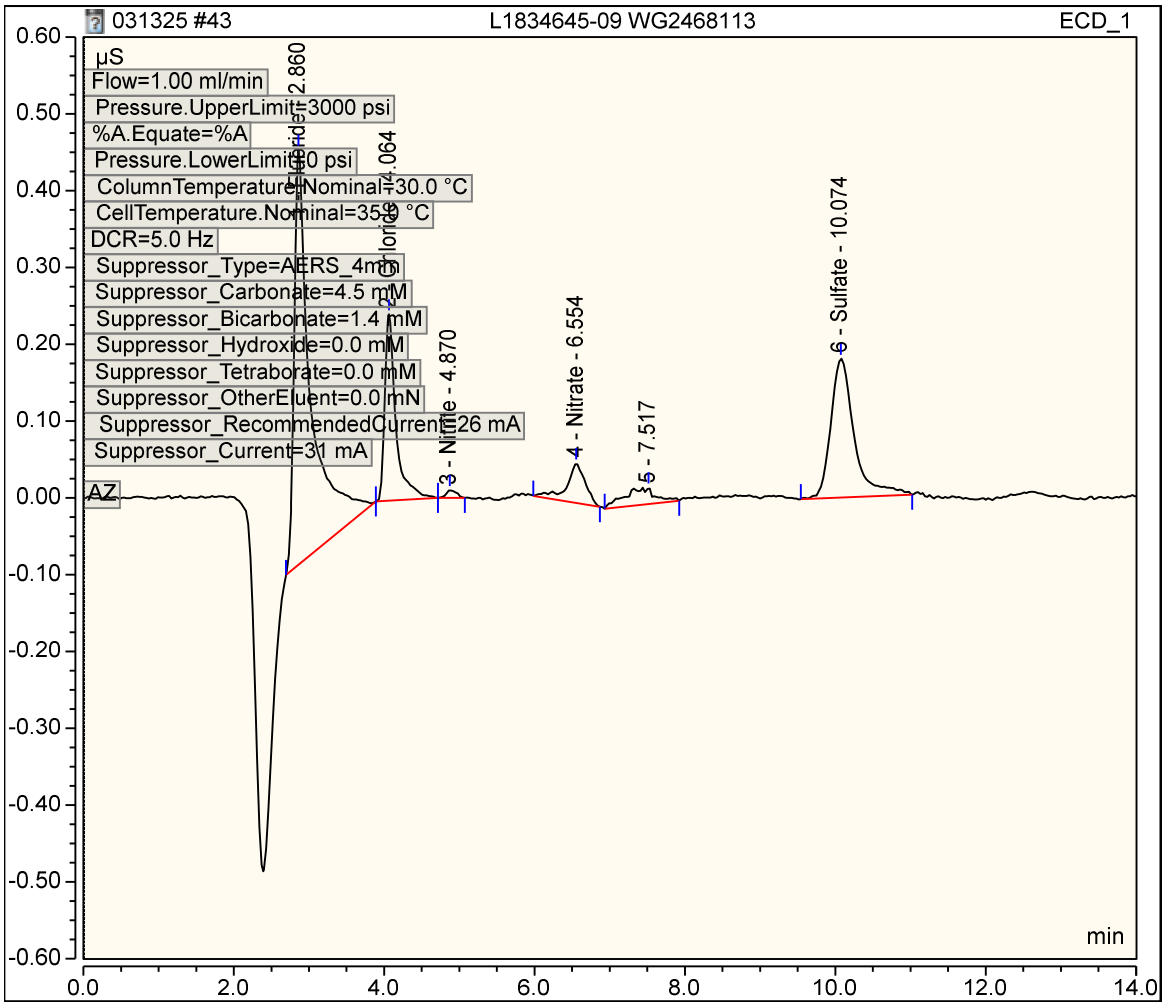
Sample Name:	**L1834645-08 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/14/25 00:47**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.111	0.404	0.6948
2	4.06	Chloride	BMB	0.035	0.194	0.8255
3	6.57	Nitrate	BMB	0.031	0.131	0.1479
4	8.51	PHOSPHATE,ORTHO	BMB	0.018	0.057	0.1558
5	10.08	Sulfate	BMB	0.115	0.301	1.4980
		TOTAL:		0.31	1.09	3.32



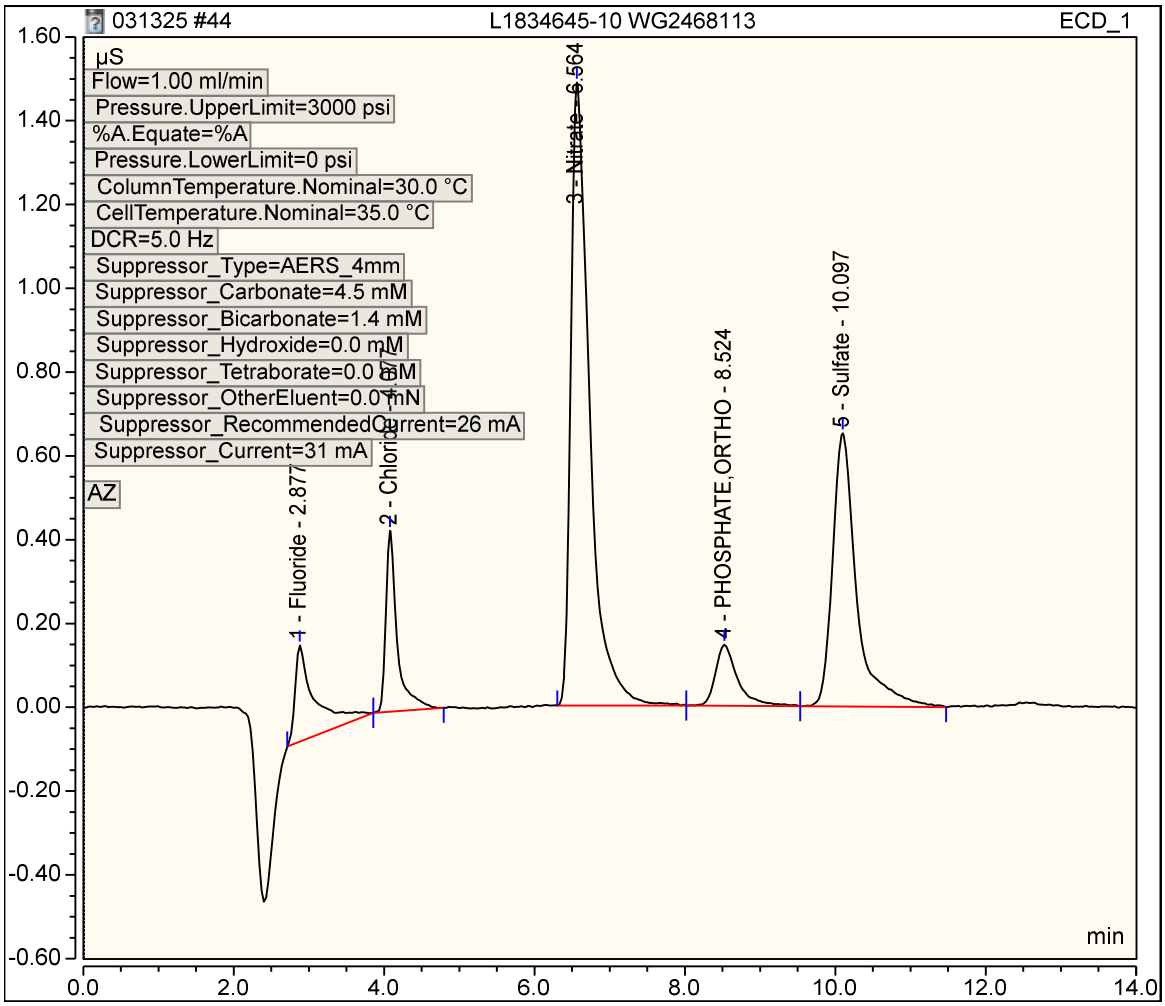
Sample Name:	**L1834645-09 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/14/25 01:04**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.86	Fluoride	BMB	0.142	0.540	0.8700
2	4.06	Chloride	BMB	0.042	0.243	0.8691
3	4.87	Nitrite	BMB	0.002	0.011	0.0576
4	6.55	Nitrate	BMB	0.015	0.052	0.0901
6	10.07	Sulfate	BMB	0.065	0.181	1.0301
		TOTAL:		0.27	1.03	2.92



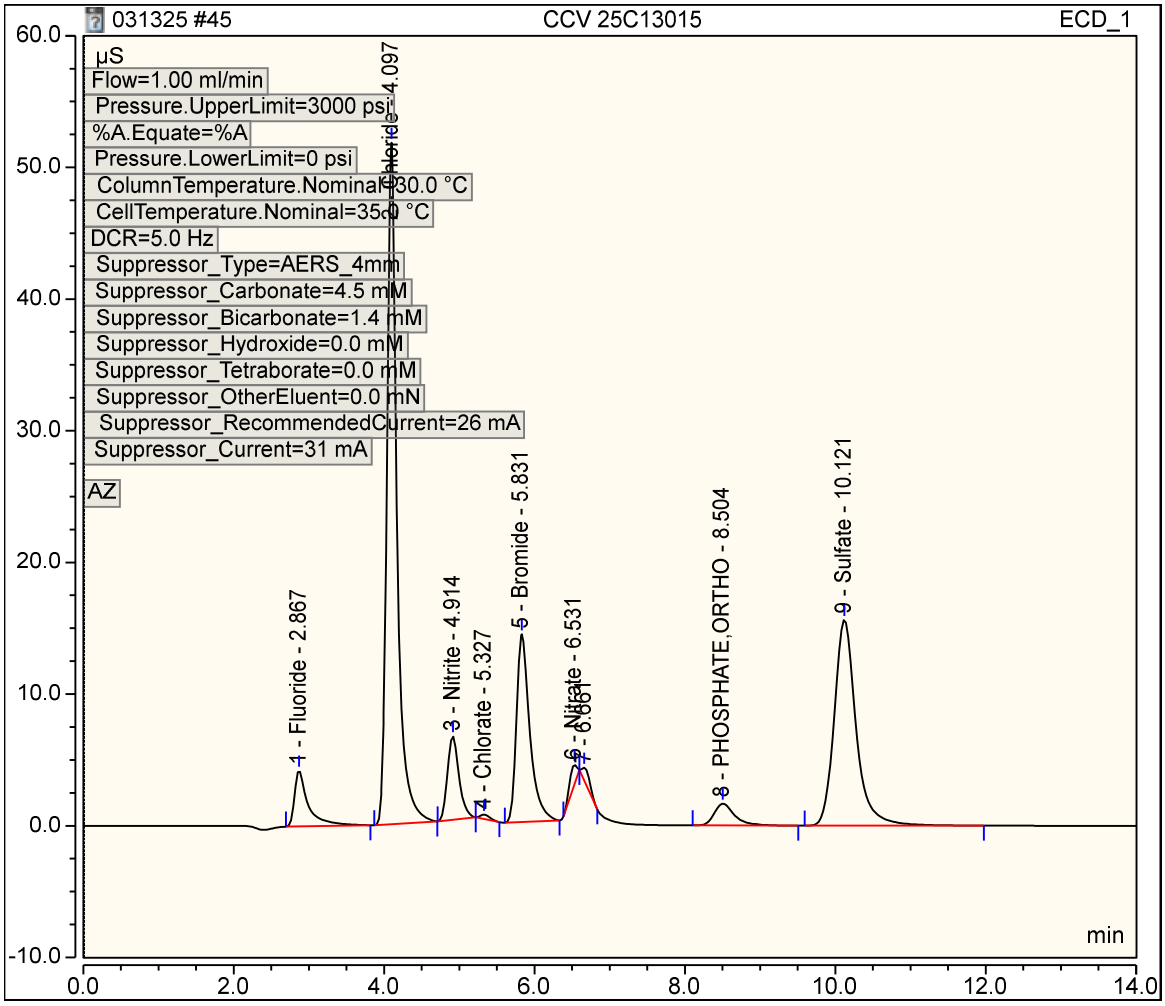
Sample Name:	**L1834645-10 WG2468113**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/14/25 01:21**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.88	Fluoride	BMB	0.070	0.230	0.4680
2	4.08	Chloride	BMB	0.075	0.431	1.0832
3	6.56	Nitrate	BMB	0.433	1.488	1.5756
4	8.52	PHOSPHATE,ORTHO	BMB	0.050	0.146	0.4539
5	10.10	Sulfate	BMB	0.242	0.652	2.7033
		TOTAL:		0.87	2.95	6.28



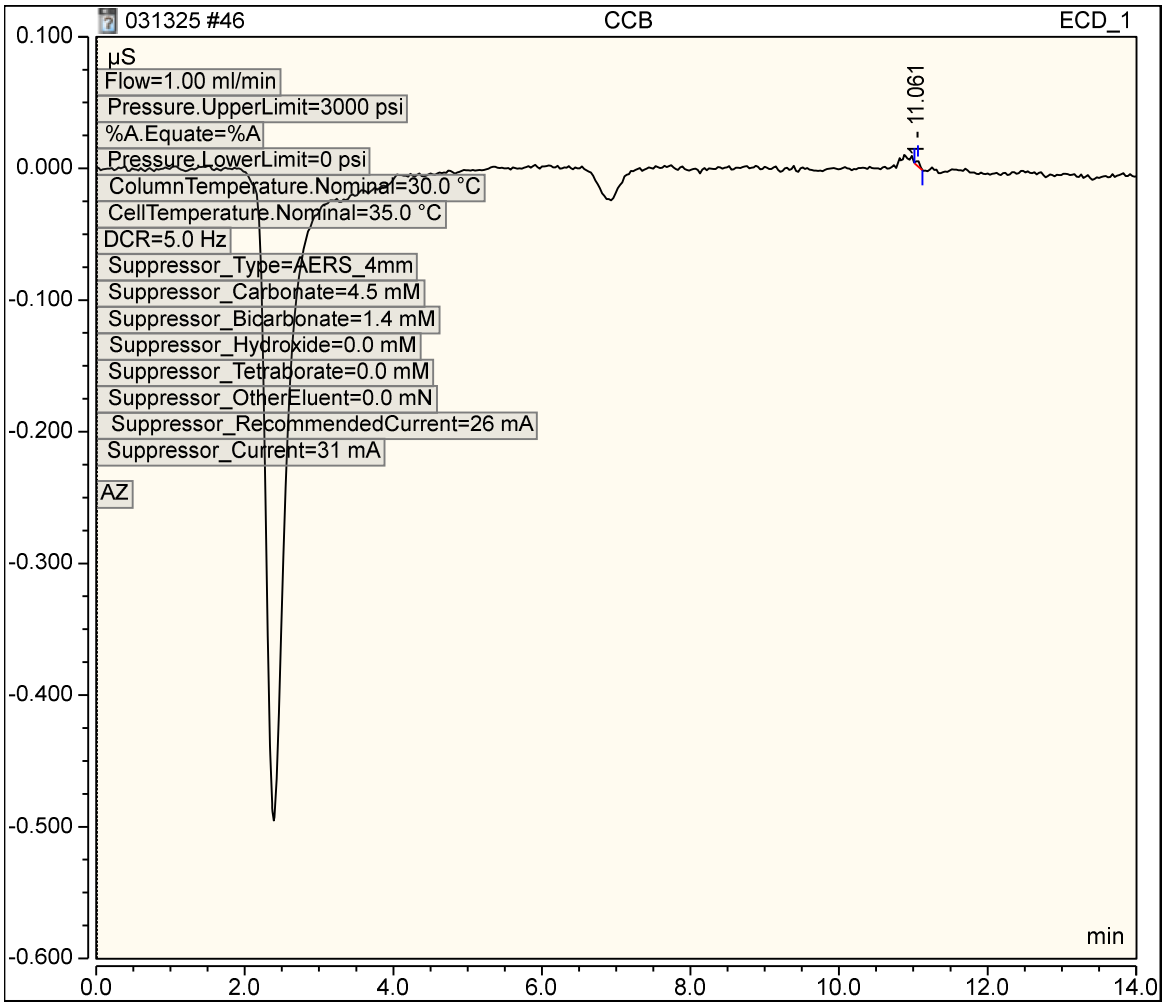
Sample Name:	**CCV 25C13015**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/14/25 01:38**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.87	Fluoride	BMB	0.905	4.249	5.1480
2	4.10	Chloride	BMB	8.034	51.761	51.4603
3	4.91	Nitrite	BMB	1.135	6.360	5.1849
4	5.33	Chlorate	BMB	0.049	0.333	2.1999
5	5.83	Bromide	BMB	2.942	14.264	50.6341
6	6.53	Nitrate	BMB	0.189	1.501	0.7081
8	8.50	PHOSPHATE,ORTHO	BMB	0.526	1.663	4.8115
9	10.12	Sulfate	BMB	5.289	15.645	50.4562
		TOTAL:		19.07	95.78	170.60



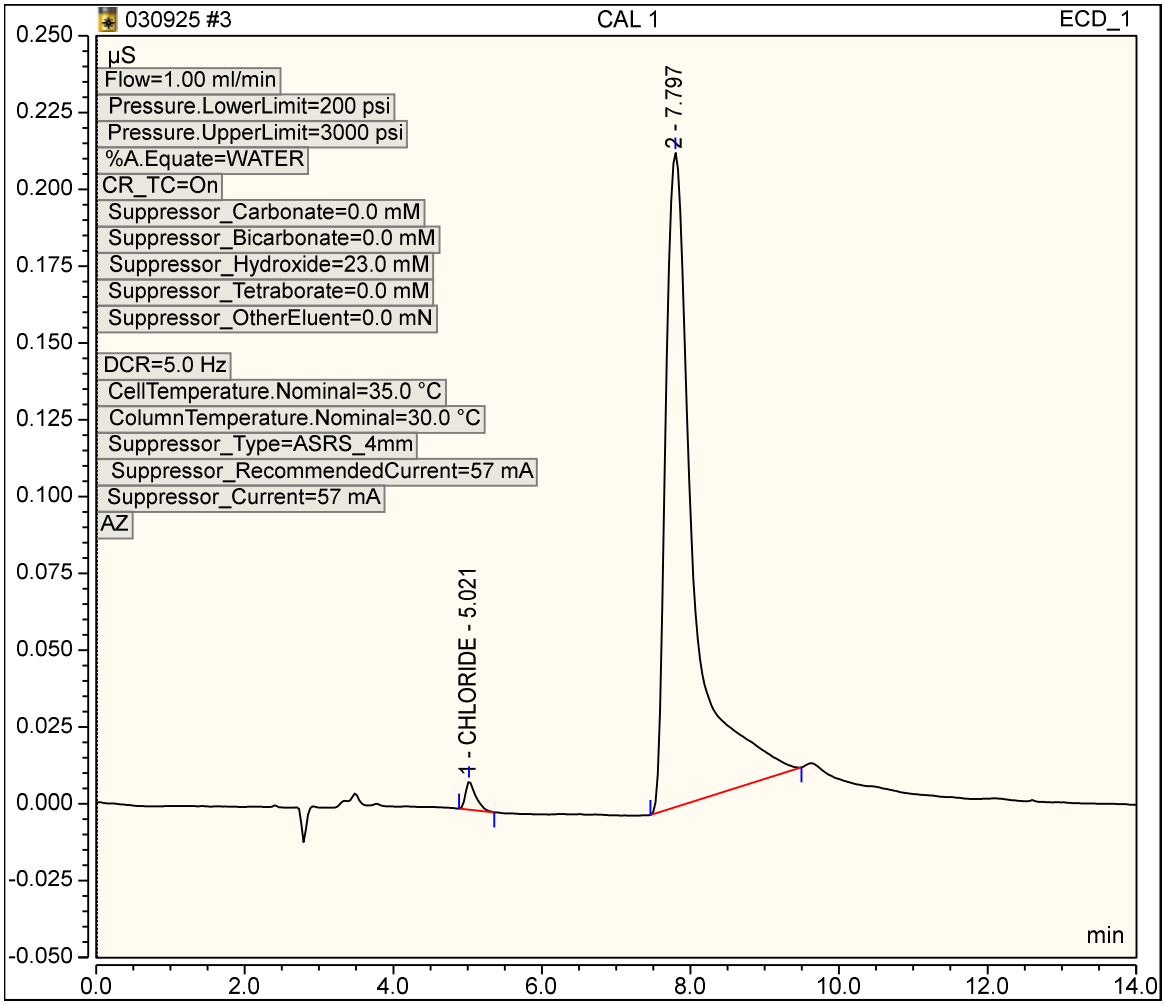
Sample Name:	**CCB**	*Inj. Vol.:*	**5000.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Anions 300.1**	*Operator:*	**WETLABIC8**
Inj. Date/Time:	**03/14/25 01:54**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount n.a.
		TOTAL:		0.00	0.00	0.00



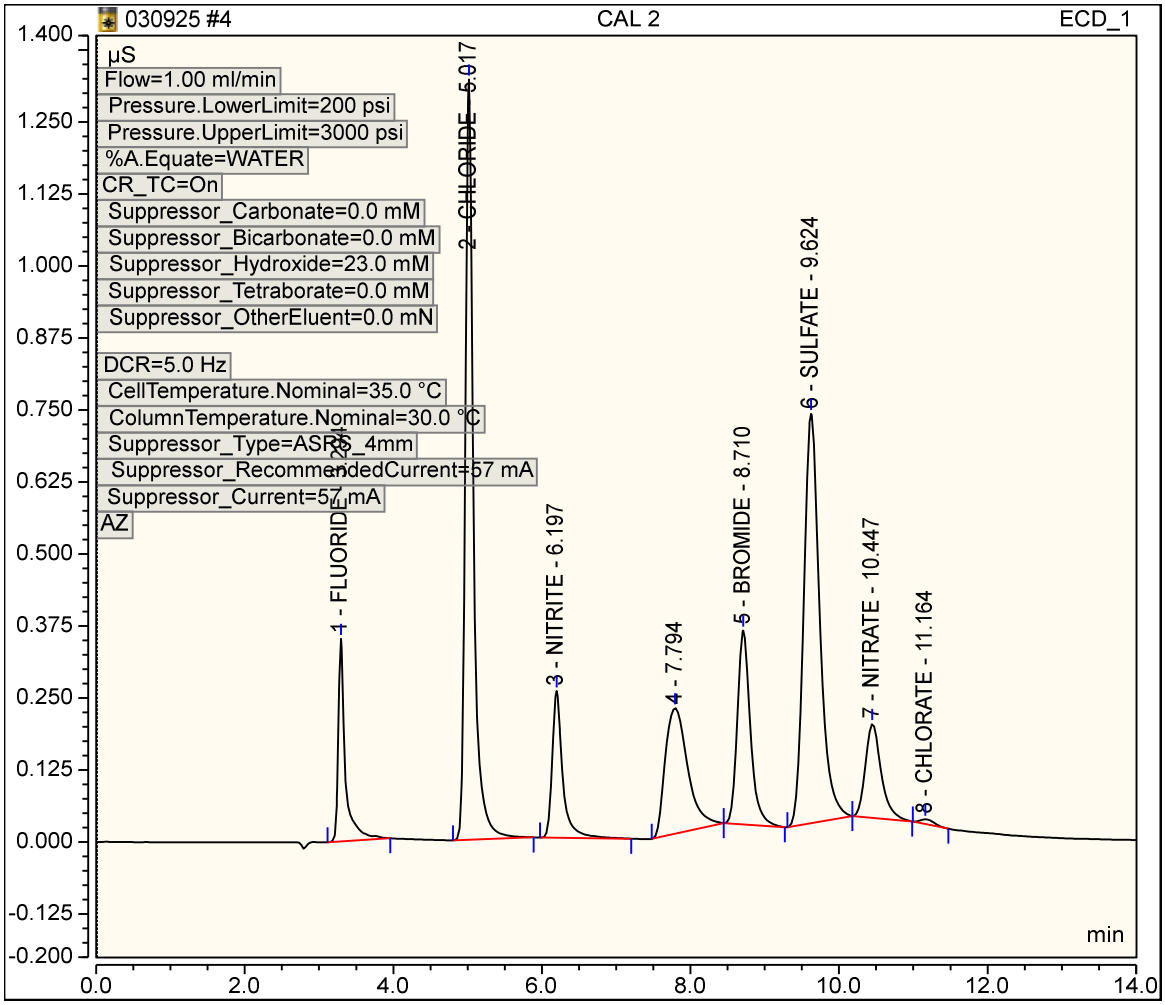
Sample Name:	**CAL 1**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	**25B27874**
Inj. Date/Time:	**03/09/25 04:29**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	5.02	CHLORIDE	BMB	0.001	0.009	n.a.
		TOTAL:		0.00	0.01	0.00



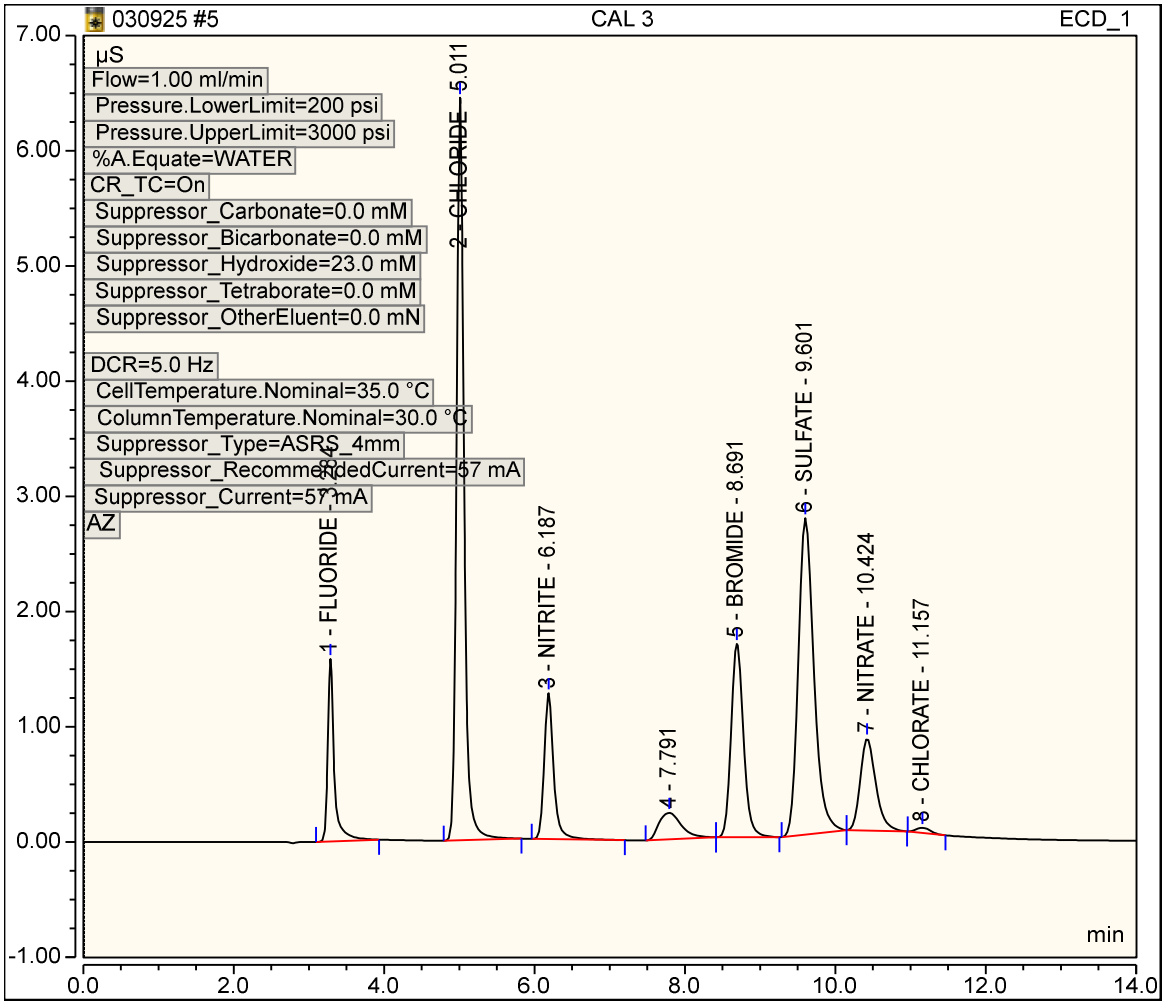
Sample Name:	**CAL 2**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 04:46**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMB	0.039	0.352	0.0980
2	5.02	CHLORIDE	BMB	0.168	1.320	1.0634
3	6.20	NITRITE	BMB	0.042	0.255	0.0857
5	8.71	BROMIDE	bMB	0.068	0.337	0.9962
6	9.62	SULFATE	BMb	0.179	0.711	0.8171
7	10.45	NITRATE	bMB	0.040	0.163	0.0910
8	11.16	CHLORATE	BMB	0.002	0.008	0.0608
		TOTAL:		0.54	3.14	3.21



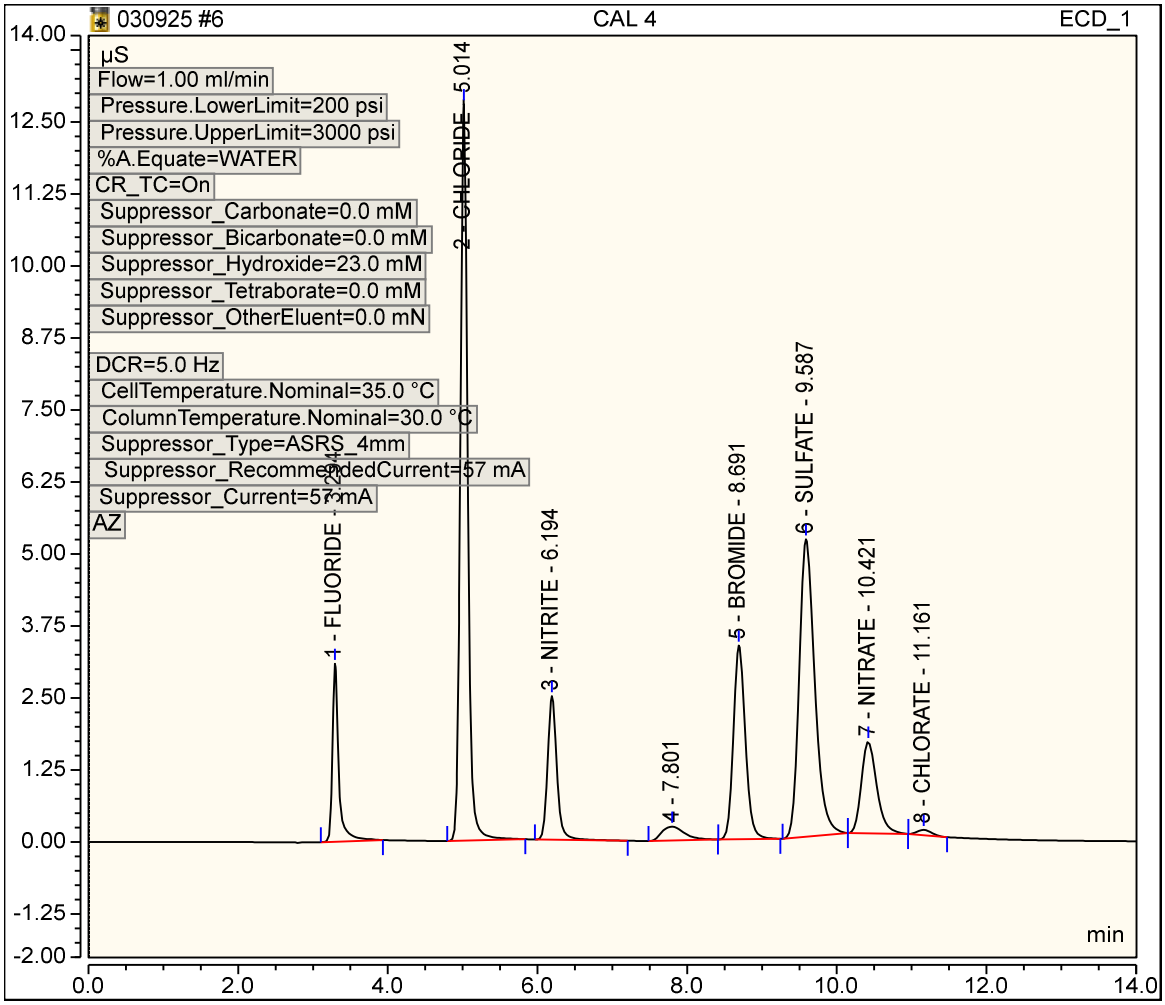
Sample Name:	**CAL 3**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 05:03**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.28	FLUORIDE	BMB	0.158	1.586	0.5341
2	5.01	CHLORIDE	BMB	0.749	6.445	5.1350
3	6.19	NITRITE	BMB	0.186	1.266	0.5284
5	8.69	BROMIDE	bMB	0.317	1.680	5.0211
6	9.60	SULFATE	BMb	0.667	2.747	5.3854
7	10.42	NITRATE	bMB	0.191	0.800	0.5159
8	11.16	CHLORATE	BMB	0.010	0.045	0.2293
		TOTAL:		2.28	14.57	17.35



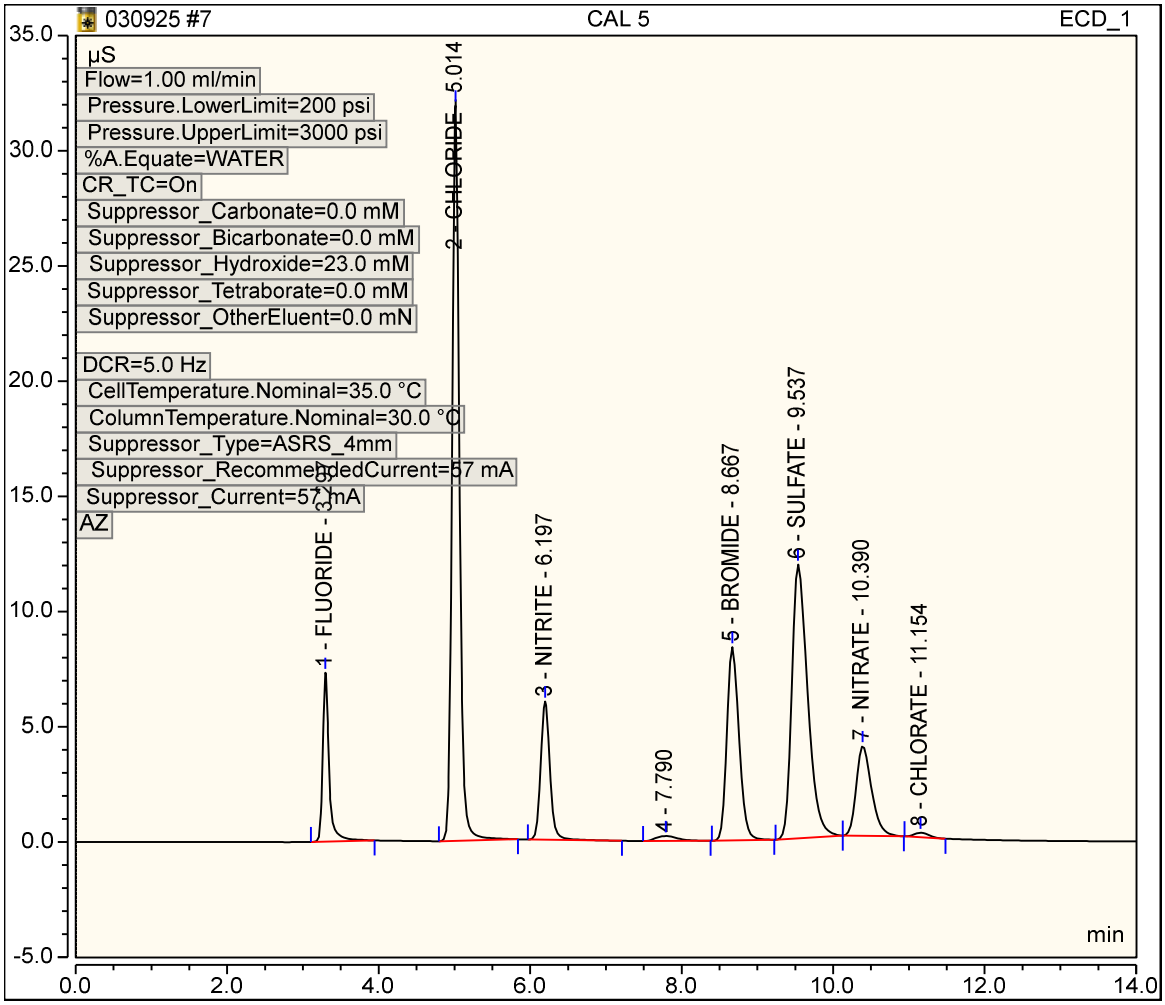
Sample Name:	**CAL 4**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 05:19**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMB	0.303	3.089	1.0665
2	5.01	CHLORIDE	BMB	1.458	12.786	10.1041
3	6.19	NITRITE	BMB	0.358	2.494	1.0568
5	8.69	BROMIDE	BMB	0.624	3.362	9.9891
6	9.59	SULFATE	BMb	1.250	5.165	10.8328
7	10.42	NITRATE	bMB	0.376	1.592	1.0401
8	11.16	CHLORATE	BMB	0.021	0.094	0.4515
		TOTAL:		4.39	28.58	34.54



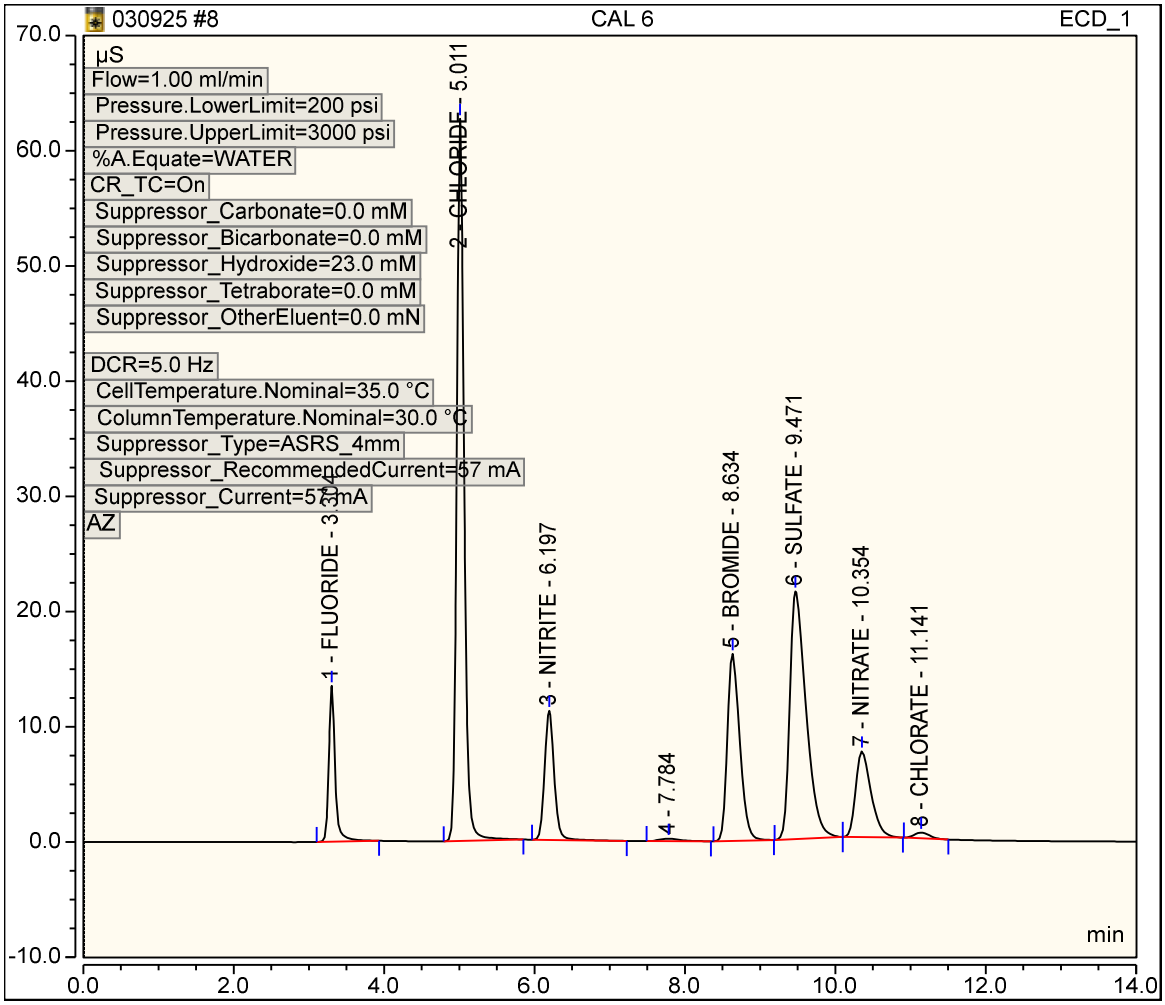
Sample Name:	**CAL 5**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 05:36**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMB	0.712	7.332	2.5684
2	5.01	CHLORIDE	BMB	3.611	31.917	25.1936
3	6.20	NITRITE	BMB	0.862	6.007	2.6087
5	8.67	BROMIDE	BMB	1.558	8.398	25.1225
6	9.54	SULFATE	BMb	2.887	11.882	26.1397
7	10.39	NITRATE	bMB	0.920	3.902	2.5788
8	11.15	CHLORATE	BMB	0.044	0.196	0.9442
		TOTAL:		10.59	69.63	85.16



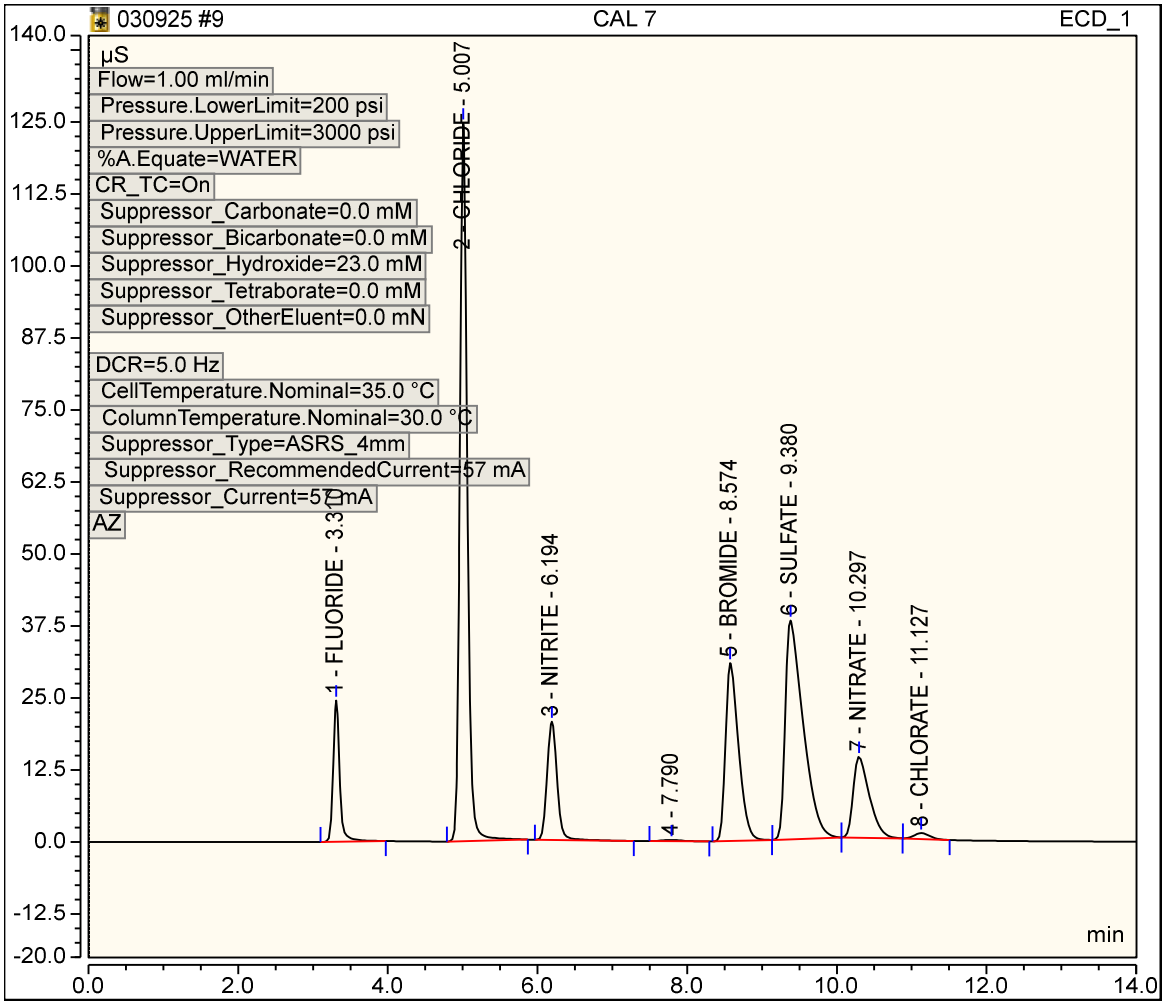
Sample Name:	**CAL 6**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 05:53**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMB	1.315	13.527	4.7782
2	5.01	CHLORIDE	BMB	7.107	62.675	49.6857
3	6.20	NITRITE	BMB	1.654	11.216	5.0414
5	8.63	BROMIDE	BMB	3.076	16.226	49.7112
6	9.47	SULFATE	BMb	5.424	21.504	49.8689
7	10.35	NITRATE	bMB	1.775	7.447	4.9971
8	11.14	CHLORATE	BMB	0.119	0.507	2.4843
		TOTAL:		20.47	133.10	166.57



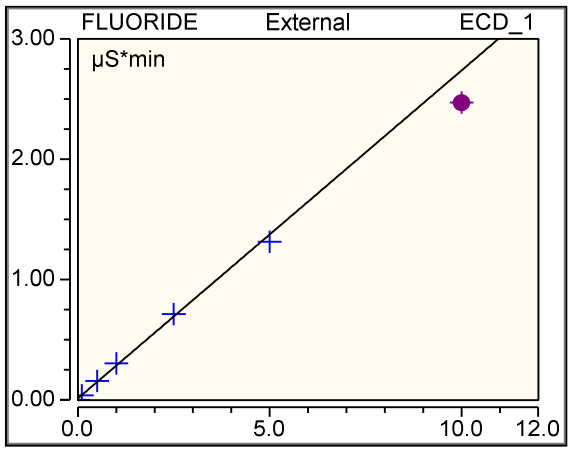
Sample Name:	**CAL 7**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 06:10**	*Run Time:*	**14.00**

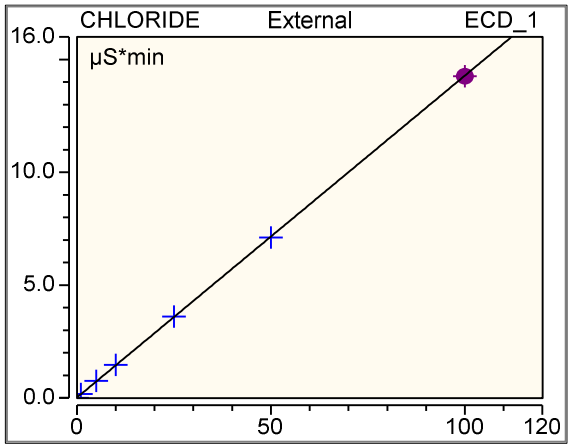
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMB	2.471	24.551	9.0187
2	5.01	CHLORIDE	BMB	14.262	124.638	99.8182
3	6.19	NITRITE	BMB	3.195	20.555	9.7790
5	8.57	BROMIDE	BMB	6.191	30.864	100.1600
6	9.38	SULFATE	BMb	10.566	37.960	97.9562
7	10.30	NITRATE	bMB	3.500	14.057	9.8771
8	11.13	CHLORATE	BMB	0.246	1.014	5.1299
		TOTAL:		40.43	253.64	331.74

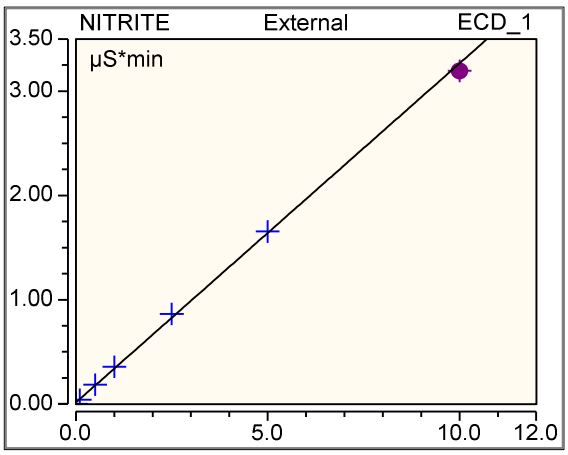


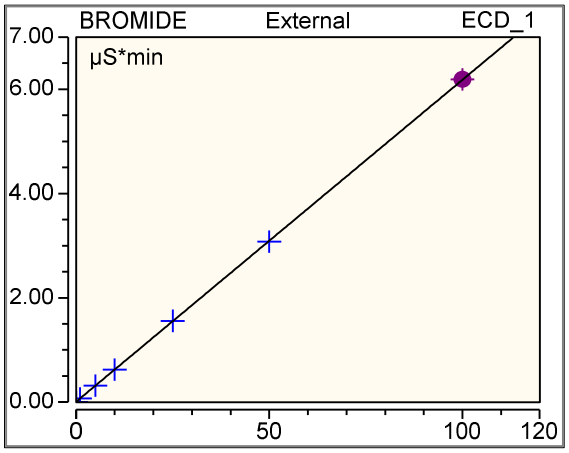
Calibration Batch Report

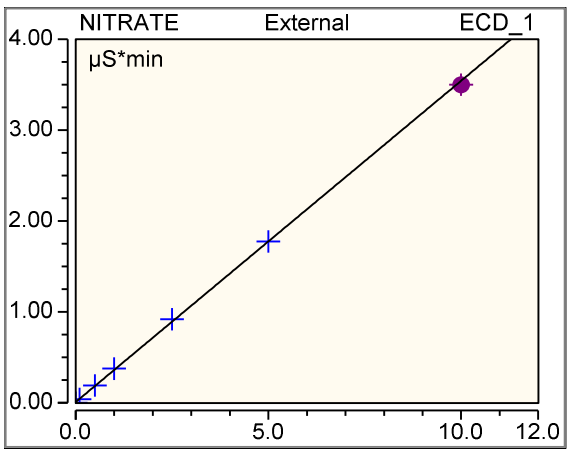
Sequence:	**030925**	Inj. Vol.:	**25.0**
Program:	**IC-11 Anions**	Operator:	**WETLABIC22**
Inj. Date/Time:	**03/09/25 06:10**	Run Time:	**14.00**

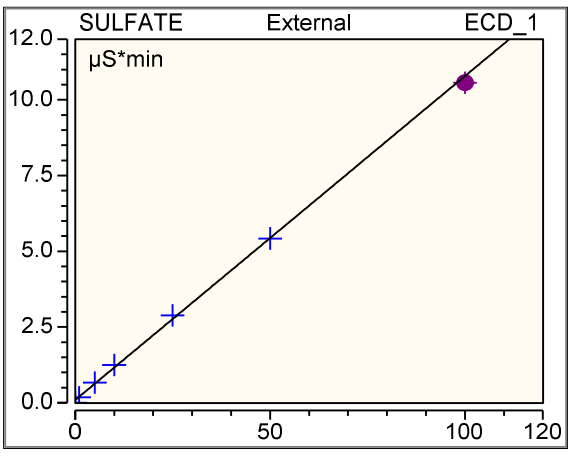




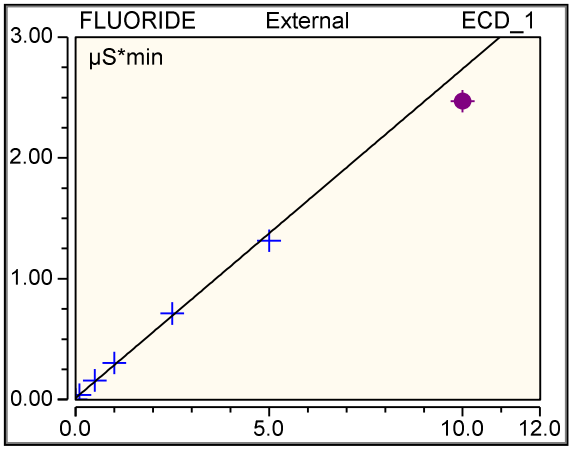








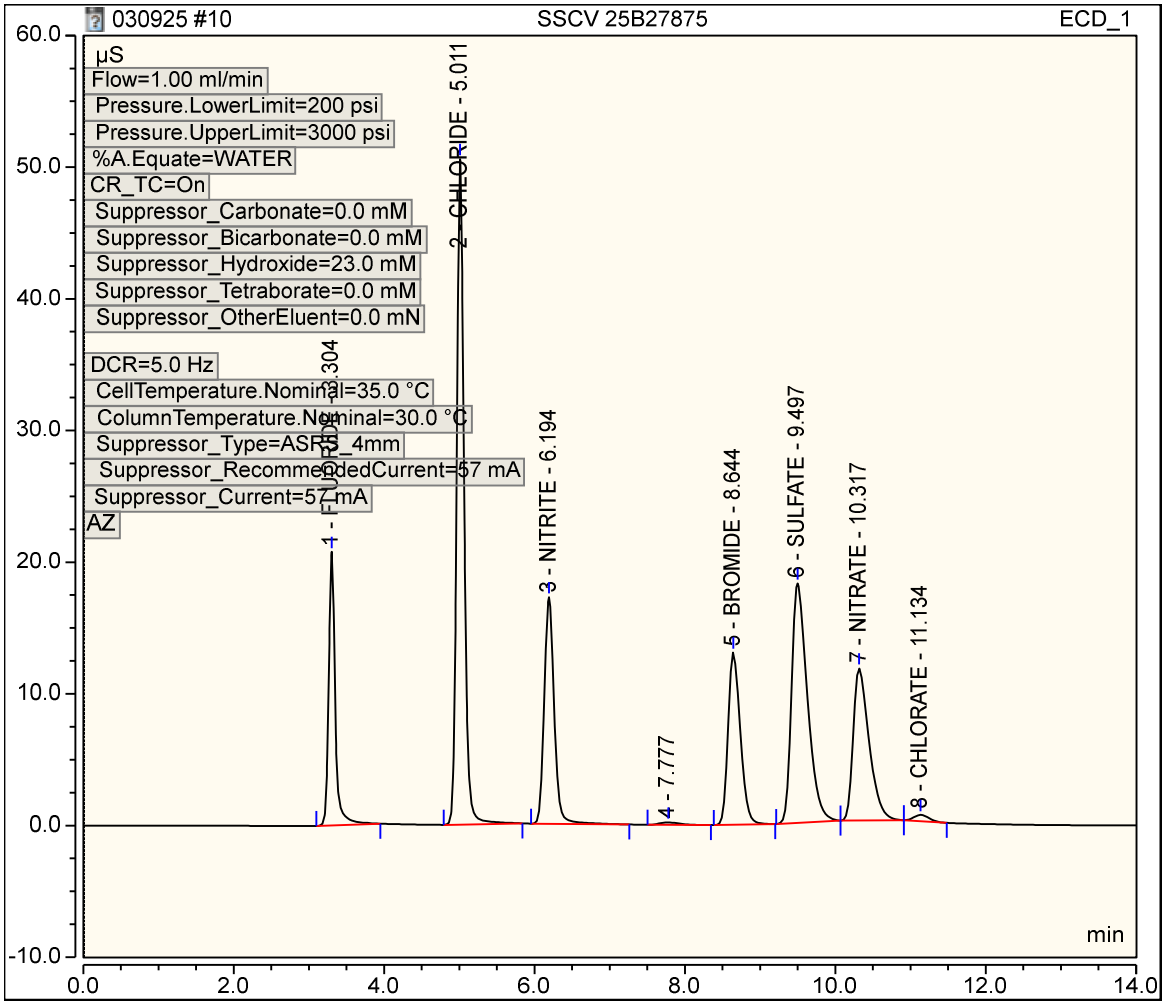
Sequence:	**030925**	*Inj. Vol.:*	**25.0**
Program:	**IC-11 Anions**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/09/25 06:10**	*Run Time:*	**14.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.31	FLUORIDE	, WithOffset, 1	6	0.012	0.273	0.000	99.743
2	5.01	CHLORIDE	, WithOffset, 1	7	0.016	0.143	0.000	99.994
3	6.19	NITRITE	, WithOffset, 1	6	0.014	0.325	0.000	99.949
5	8.57	BROMIDE	, WithOffset, 1	6	0.007	0.062	0.000	99.999
6	9.38	SULFATE	, WithOffset, 1	6	0.091	0.107	0.000	99.931
7	10.30	NITRATE	, WithOffset, 1	6	0.008	0.353	0.000	99.979
8	11.13	CHLORATE	, WithOffset, 1	6	-0.001	0.048	0.000	99.904
AVERAGE:					0.0210	0.1873	0.0000	99.9284

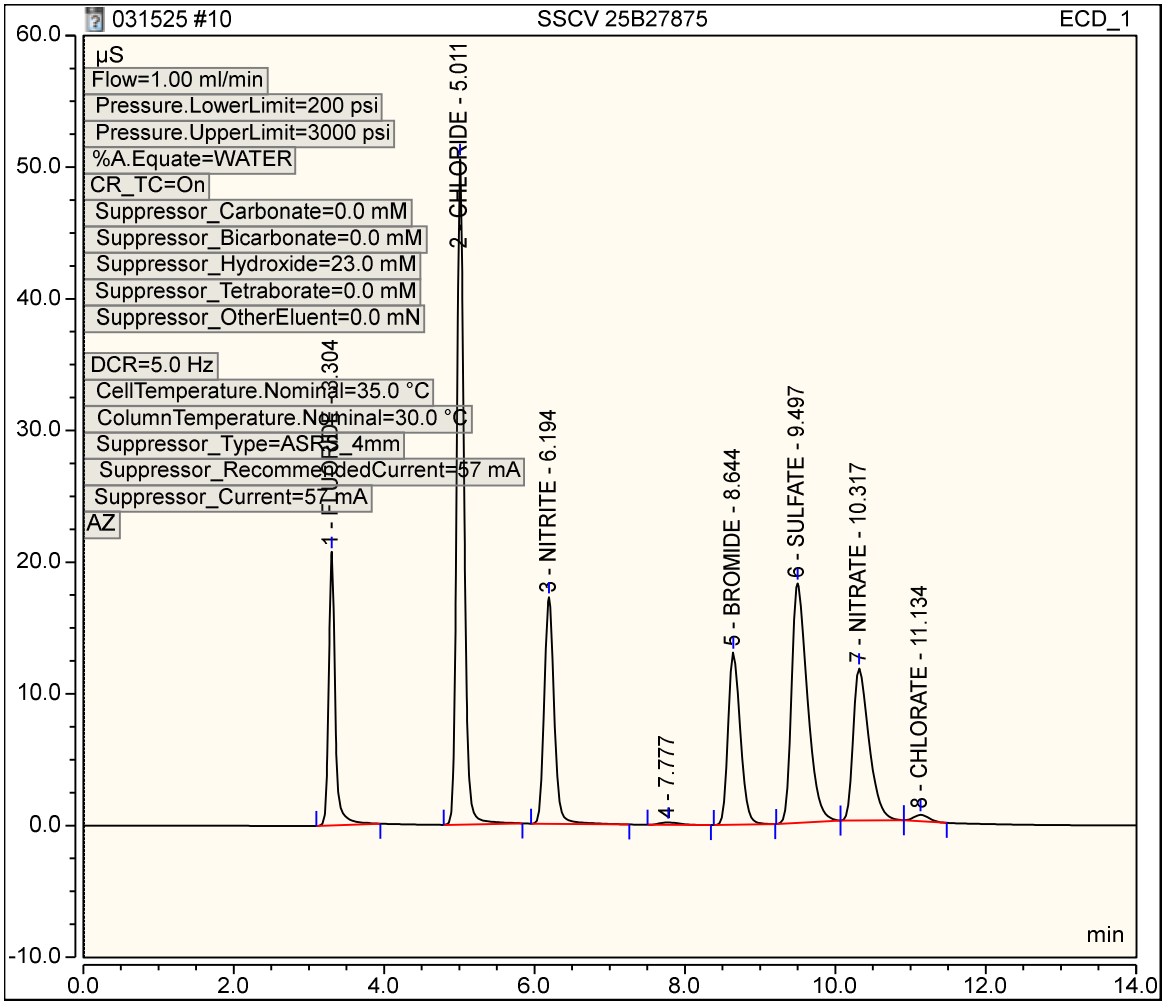
Sample Name:	**SSCV 25B27875**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 06:27**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMB	2.079	20.772	7.5803
2	5.01	CHLORIDE	BMB	5.714	50.549	39.9293
3	6.19	NITRITE	BMB	2.645	17.203	8.0878
5	8.64	BROMIDE	BMB	2.450	13.100	39.5750
6	9.50	SULFATE	BMb	4.466	18.189	40.9125
7	10.32	NITRATE	bMb	2.840	11.564	8.0103
8	11.13	CHLORATE	bMB	0.114	0.488	2.3836
		TOTAL:		20.31	131.87	146.48



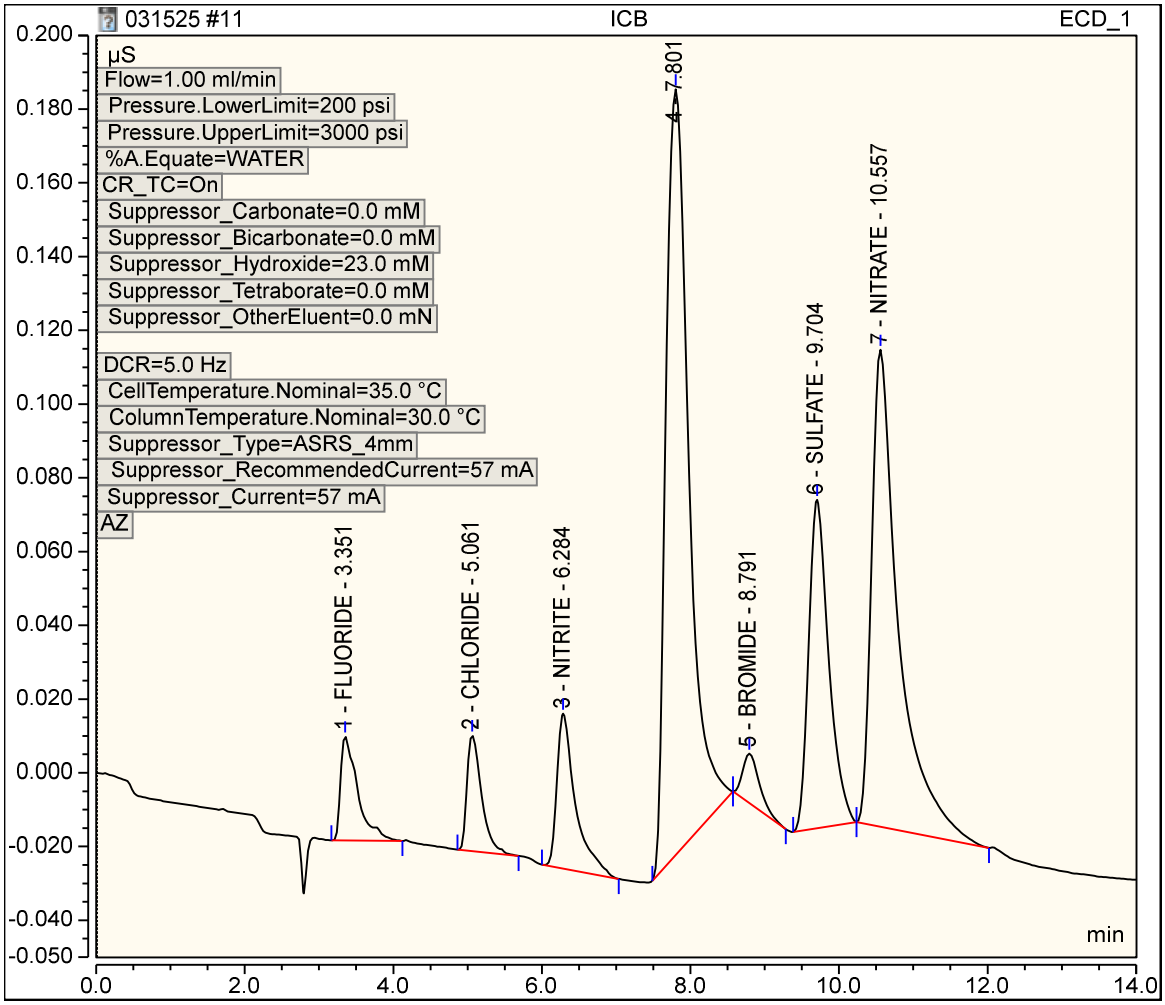
Sample Name:	**SSCV 25B27875**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 06:27**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMB	2.079	20.772	7.5803
2	5.01	CHLORIDE	BMB	5.714	50.549	39.9293
3	6.19	NITRITE	BMB	2.645	17.203	8.0878
5	8.64	BROMIDE	BMB	2.450	13.100	39.5750
6	9.50	SULFATE	BMb	4.466	18.189	40.9125
7	10.32	NITRATE	bMb	2.840	11.564	8.0103
8	11.13	CHLORATE	bMB	0.114	0.488	2.3836
		TOTAL:		20.31	131.87	146.48



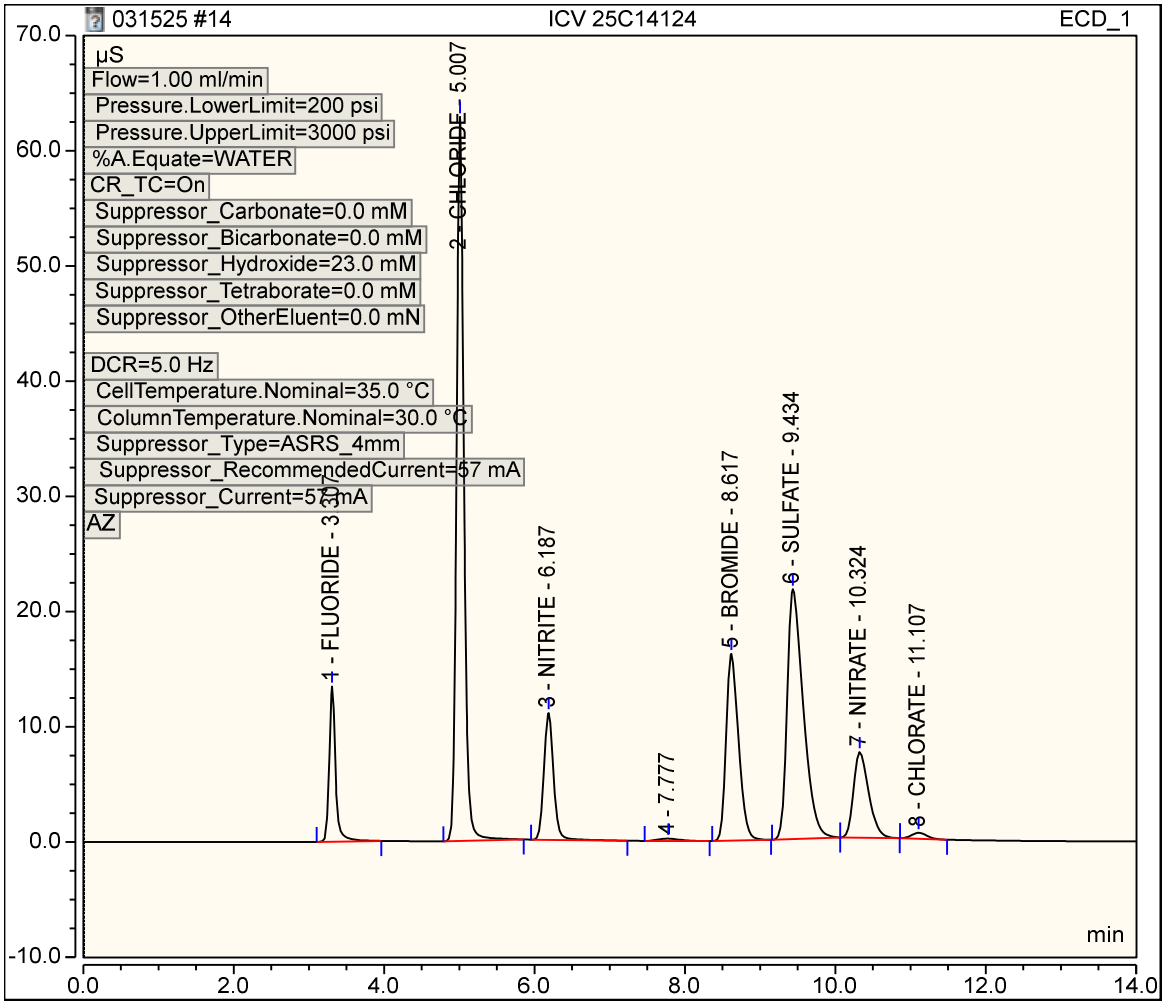
Sample Name:	**ICB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 06:44**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.35	FLUORIDE	BMB	0.008	0.028	n.a.
2	5.06	CHLORIDE	BMB	0.007	0.031	n.a.
3	6.28	NITRITE	BMB	0.012	0.042	n.a.
5	8.79	BROMIDE	bMB	0.004	0.013	n.a.
6	9.70	SULFATE	BMb	0.028	0.089	n.a.
7	10.56	NITRATE	bMB	0.055	0.129	0.1316
		TOTAL:		0.11	0.33	0.13



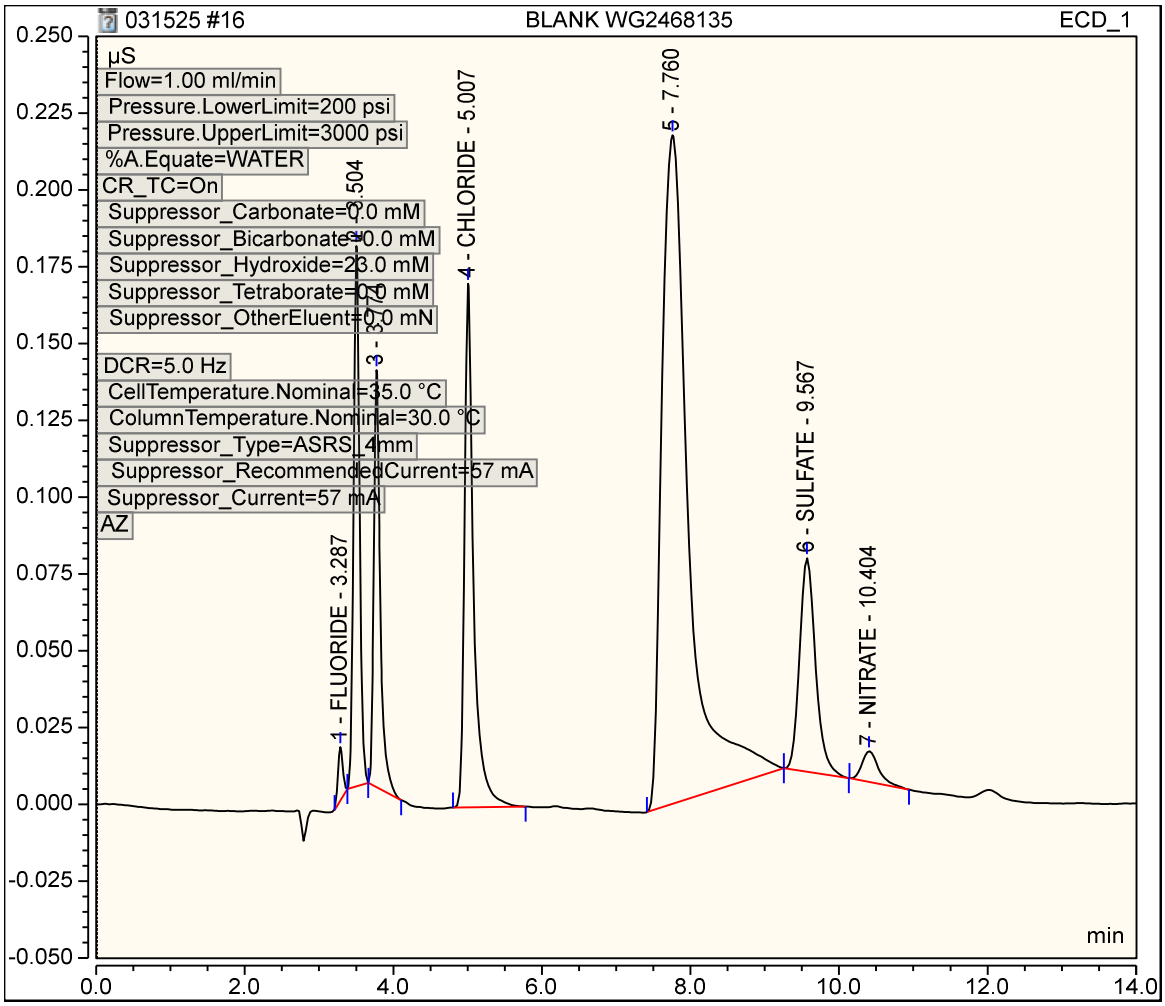
Sample Name:	**ICV 25C14124**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 10:46**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMB	1.314	13.471	4.7768
2	5.01	CHLORIDE	BMB	7.139	62.839	49.9092
3	6.19	NITRITE	BMB	1.643	11.013	5.0095
5	8.62	BROMIDE	BMB	3.082	16.214	49.8044
6	9.43	SULFATE	BMb	5.430	21.681	49.9212
7	10.32	NITRATE	bMB	1.747	7.439	4.9182
8	11.11	CHLORATE	BMB	0.123	0.518	2.5735
		TOTAL:		20.48	133.17	166.91



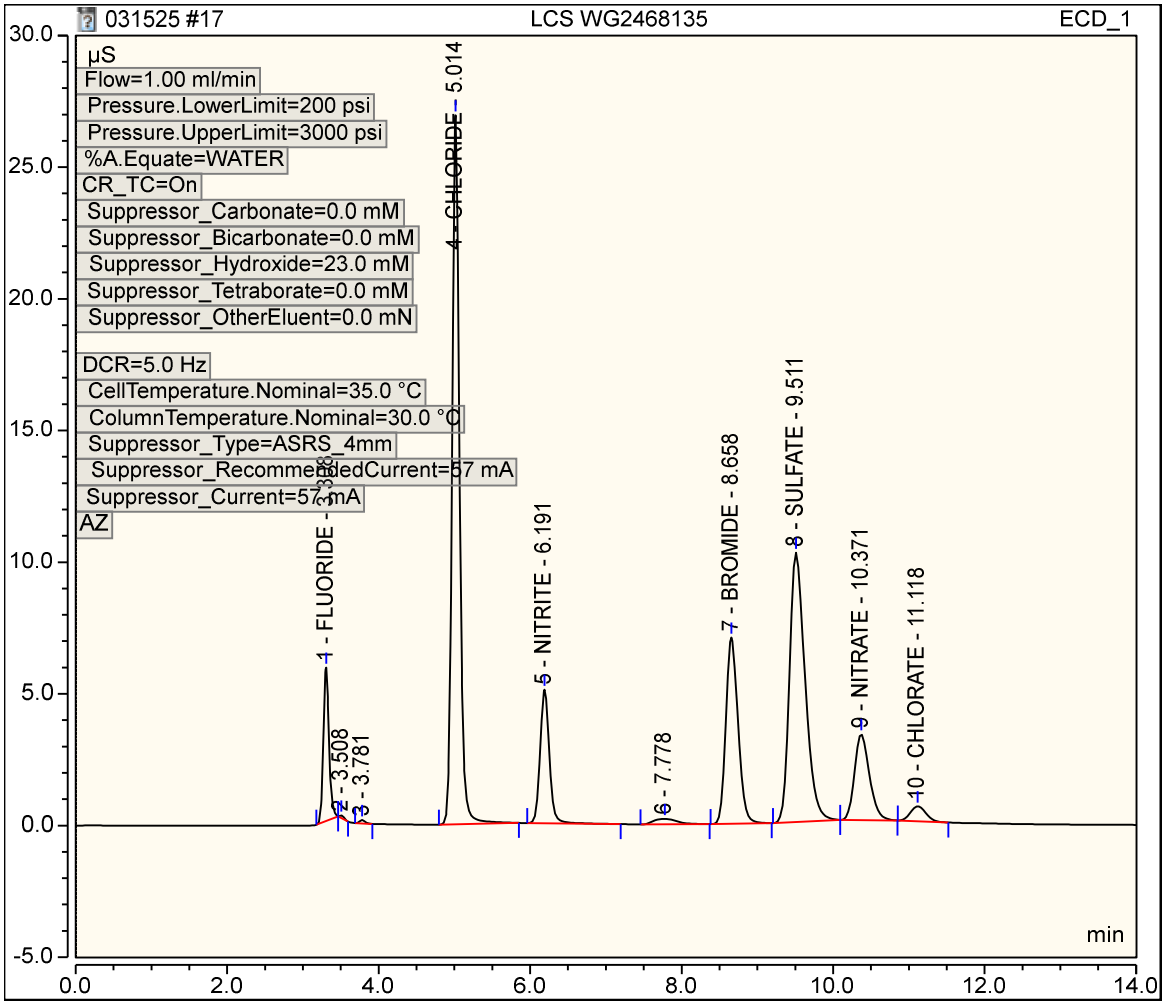
Sample Name:	**BLANK WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 16:27**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.001	0.017	n.a.
4	5.01	CHLORIDE	BMB	0.024	0.170	0.0584
6	9.57	SULFATE	bMB	0.017	0.070	n.a.
7	10.40	NITRATE	BMB	0.003	0.010	n.a.
		TOTAL:		0.05	0.27	0.06



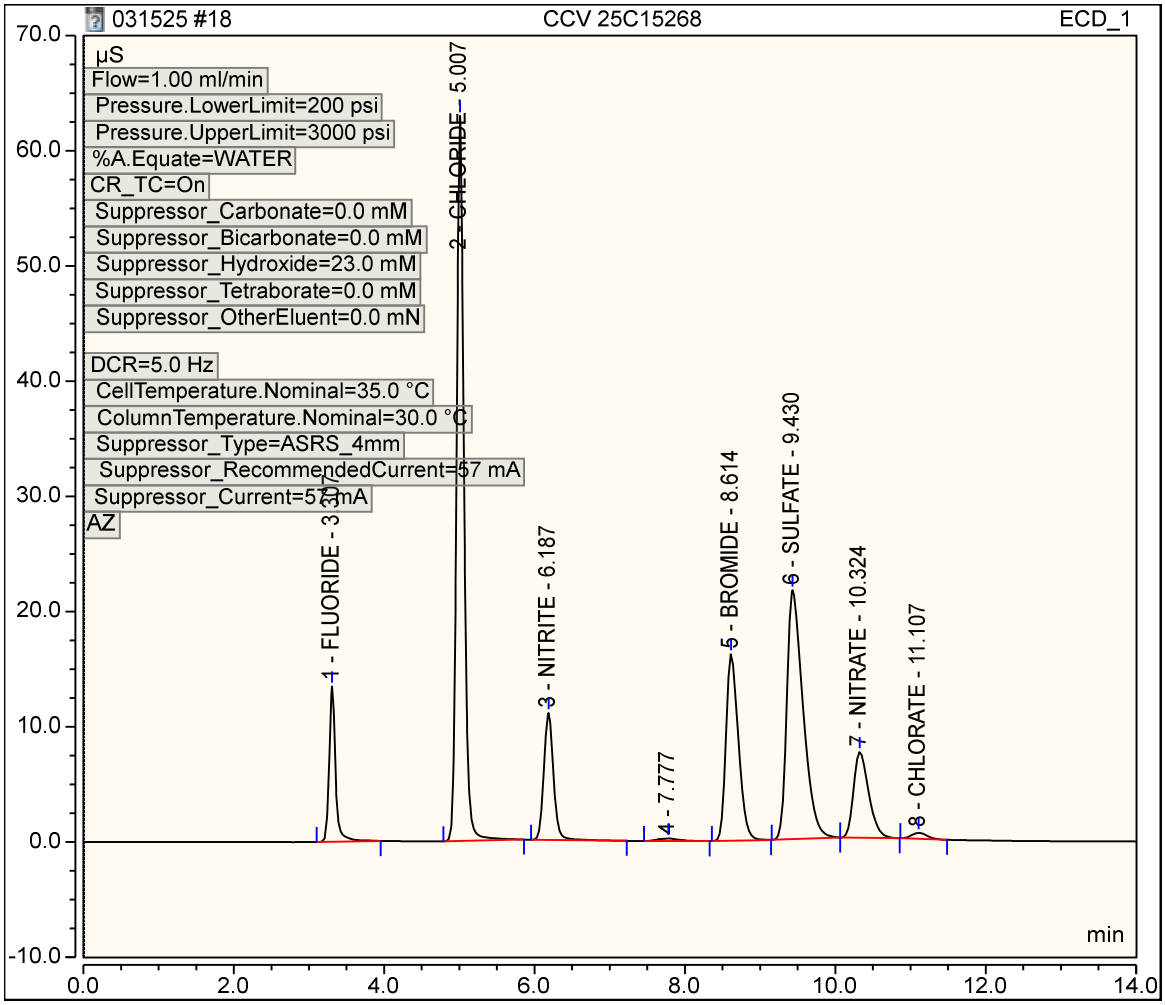
Sample Name:	**LCS WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 16:44**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMb	0.497	5.825	1.7796
4	5.01	CHLORIDE	BMB	3.053	26.924	21.2796
5	6.19	NITRITE	BMB	0.728	5.075	2.1963
7	8.66	BROMIDE	BMB	1.316	7.074	21.2002
8	9.51	SULFATE	BMb	2.453	10.231	22.0892
9	10.37	NITRATE	bMB	0.749	3.270	2.0958
10	11.12	CHLORATE	BMB	0.135	0.568	2.8217
		TOTAL:		8.93	58.97	73.46



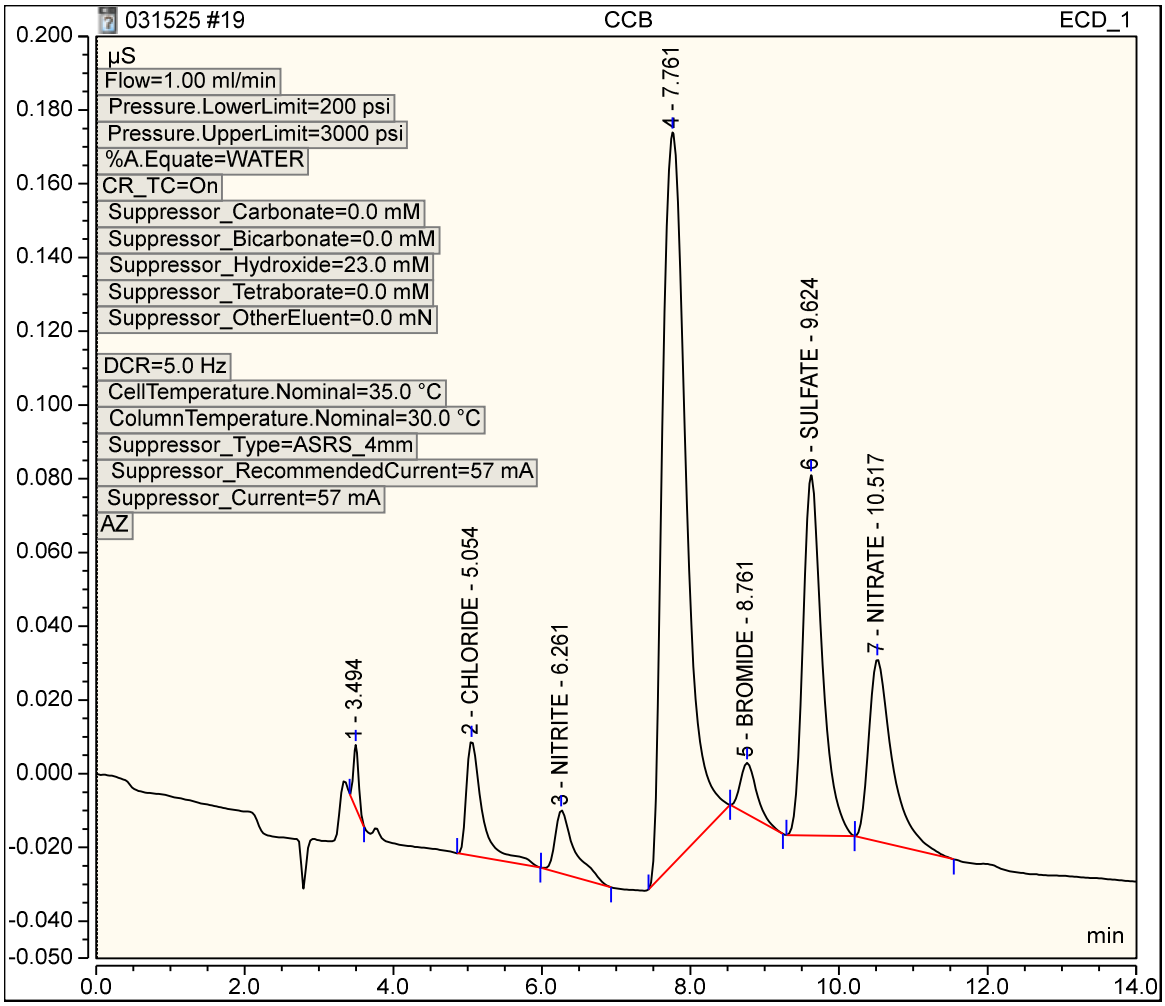
Sample Name:	**CCV 25C15268**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 17:01**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMB	1.315	13.485	4.7794
2	5.01	CHLORIDE	BMB	7.148	62.926	49.9725
3	6.19	NITRITE	BMB	1.642	11.027	5.0060
5	8.61	BROMIDE	BMB	3.085	16.212	49.8575
6	9.43	SULFATE	BMb	5.430	21.605	49.9267
7	10.32	NITRATE	bMB	1.748	7.445	4.9220
8	11.11	CHLORATE	BMB	0.123	0.519	2.5780
		TOTAL:		20.49	133.22	167.04



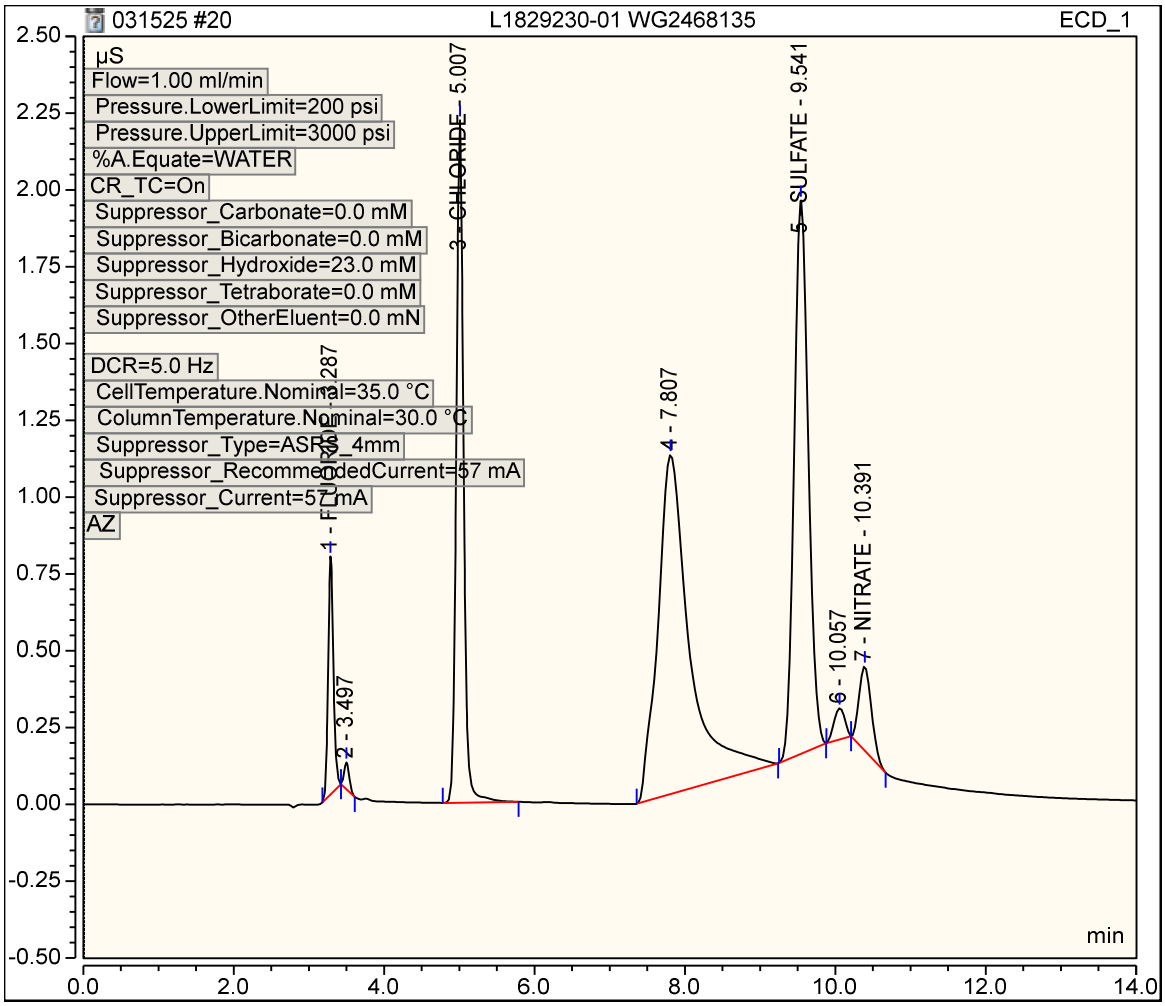
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 17:17**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
2	5.05	CHLORIDE	BMB	0.008	0.031	n.a.
3	6.26	NITRITE	BMB	0.005	0.017	n.a.
5	8.76	BROMIDE	bMB	0.004	0.014	n.a.
6	9.62	SULFATE	BMB	0.029	0.098	n.a.
7	10.52	NITRATE	BMB	0.018	0.049	0.0284
		TOTAL:		0.06	0.21	0.03



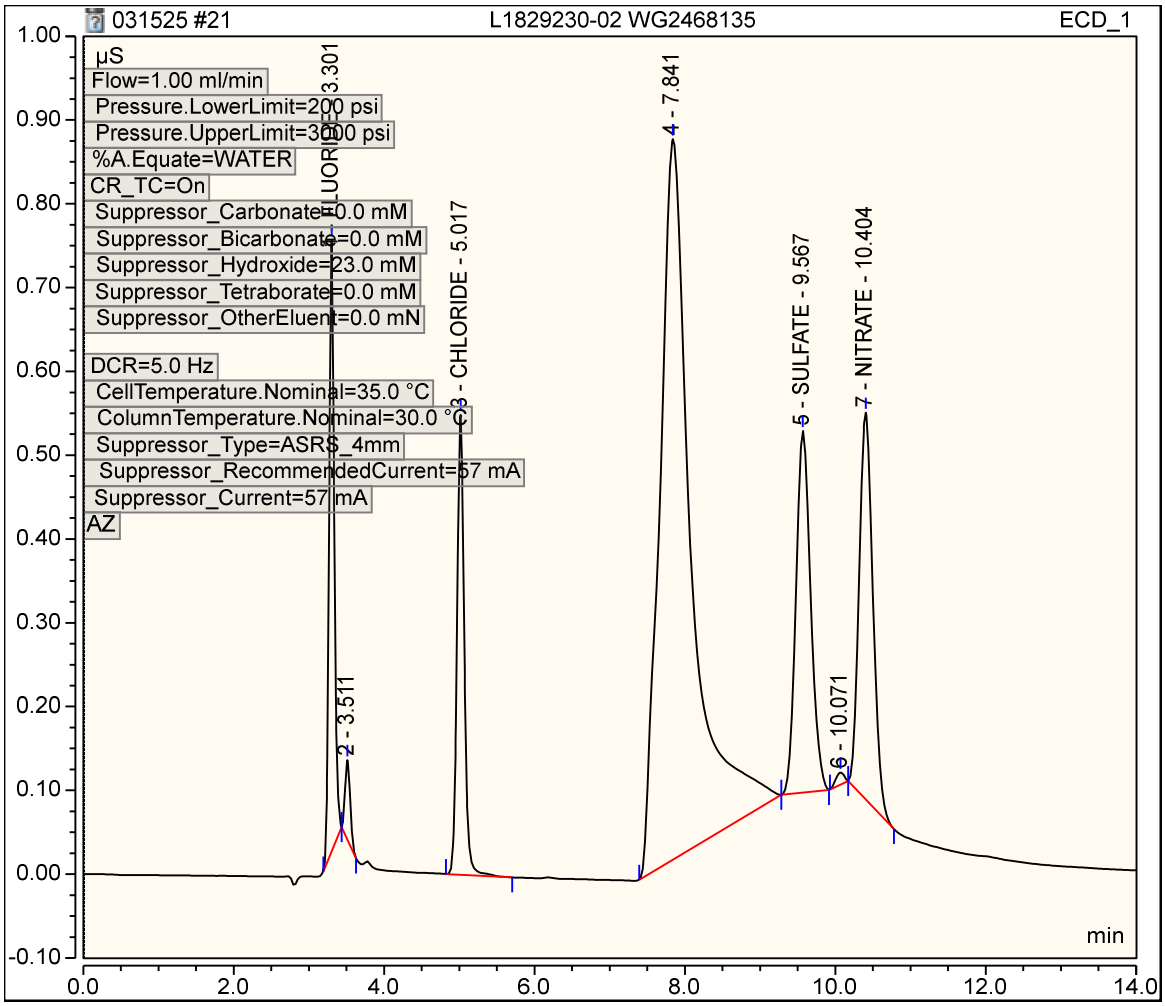
Sample Name:	**L1829230-01 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 17:34**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.062	0.775	0.1838
3	5.01	CHLORIDE	BMB	0.250	2.221	1.6397
5	9.54	SULFATE	BMB	0.395	1.802	2.8429
7	10.39	NITRATE	bMB	0.053	0.274	0.1260
		TOTAL:		0.76	5.07	4.79



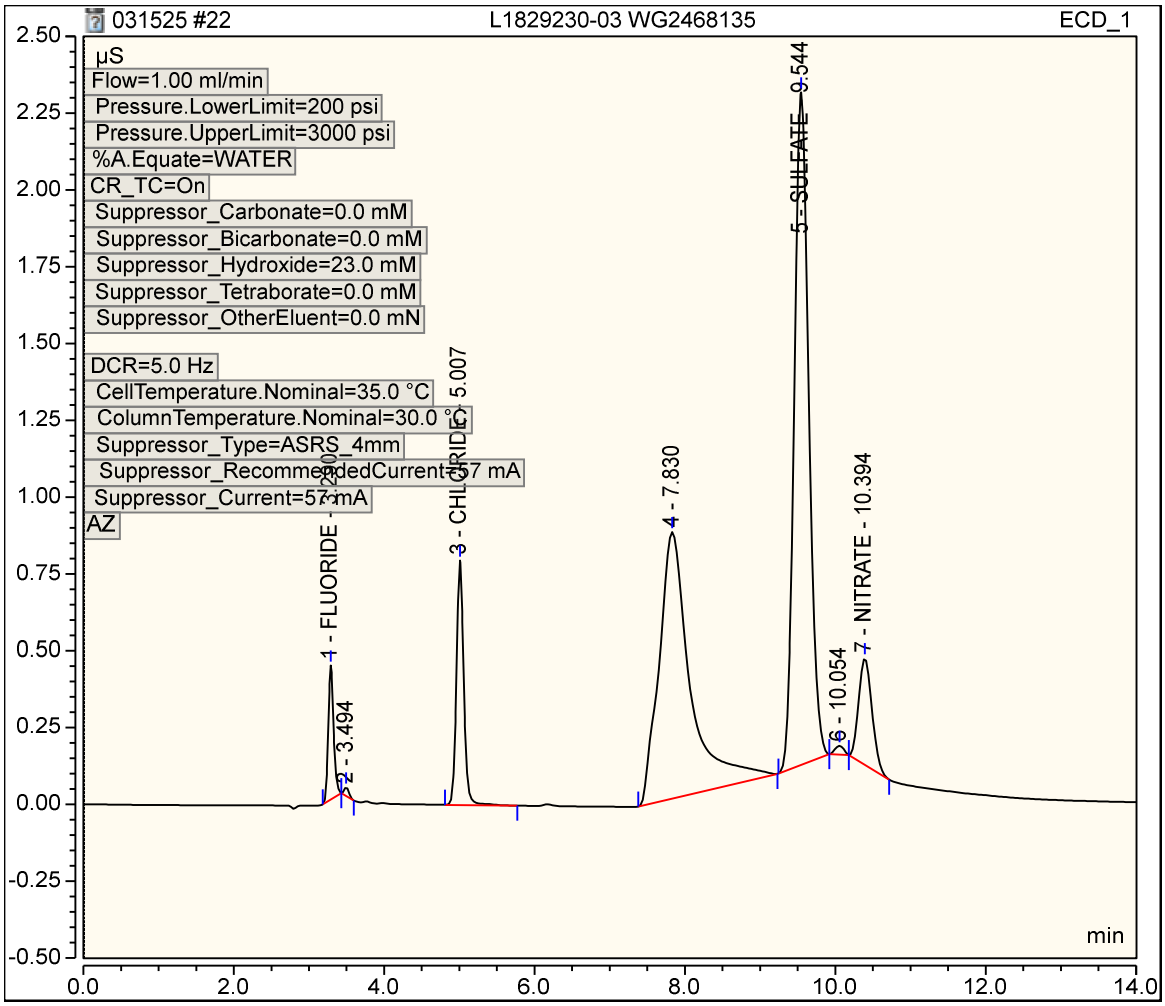
Sample Name:	**L1829230-02 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 17:51**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.058	0.730	0.1698
3	5.02	CHLORIDE	BMB	0.061	0.549	0.3142
5	9.57	SULFATE	bMB	0.099	0.432	0.0672
7	10.40	NITRATE	bMB	0.098	0.462	0.2527
		TOTAL:		0.32	2.17	0.80



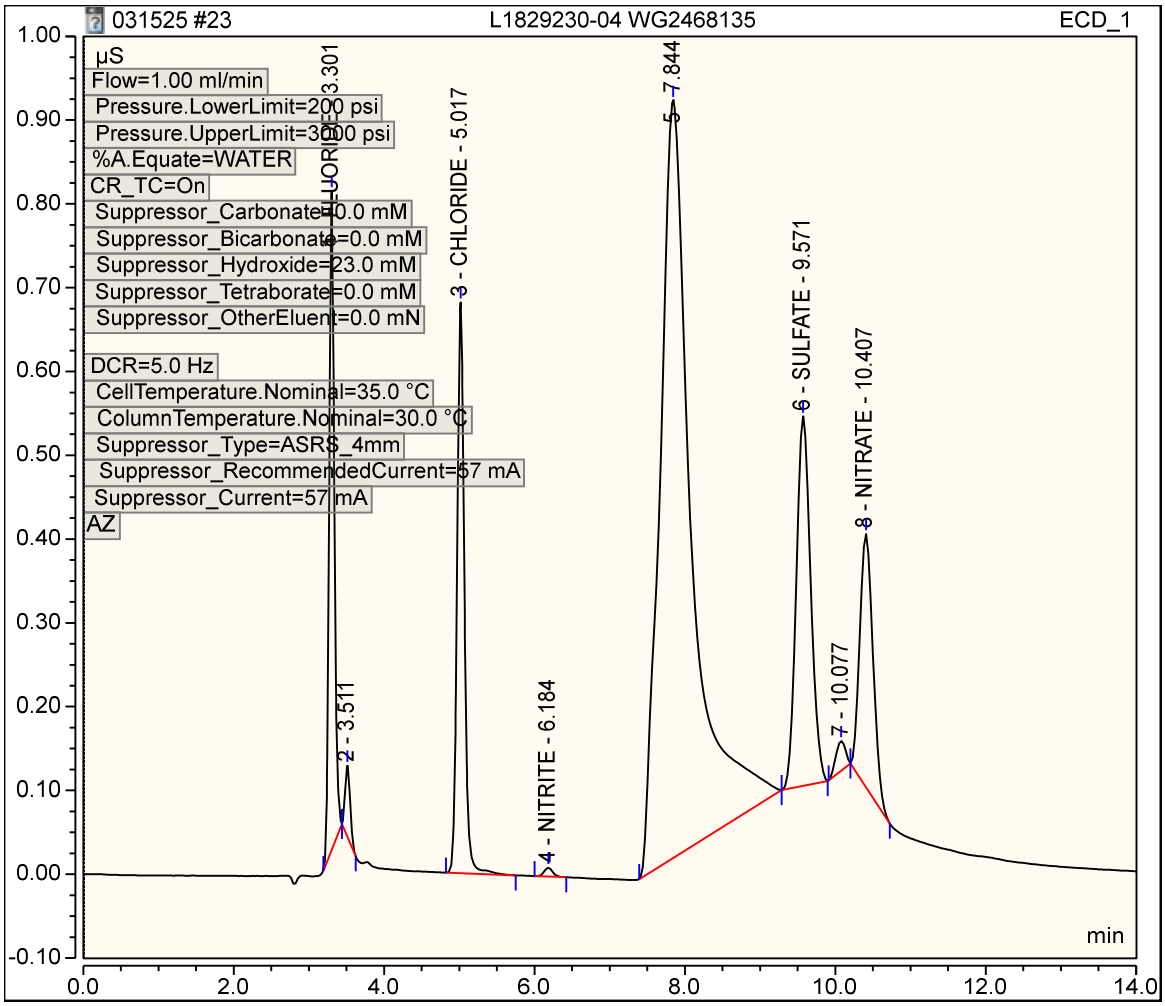
Sample Name:	**L1829230-03 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 18:08**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.035	0.436	0.0851
3	5.01	CHLORIDE	BMB	0.089	0.796	0.5096
5	9.54	SULFATE	BMb	0.492	2.189	3.7466
7	10.39	NITRATE	bMB	0.071	0.347	0.1782
		TOTAL:		0.69	3.77	4.52



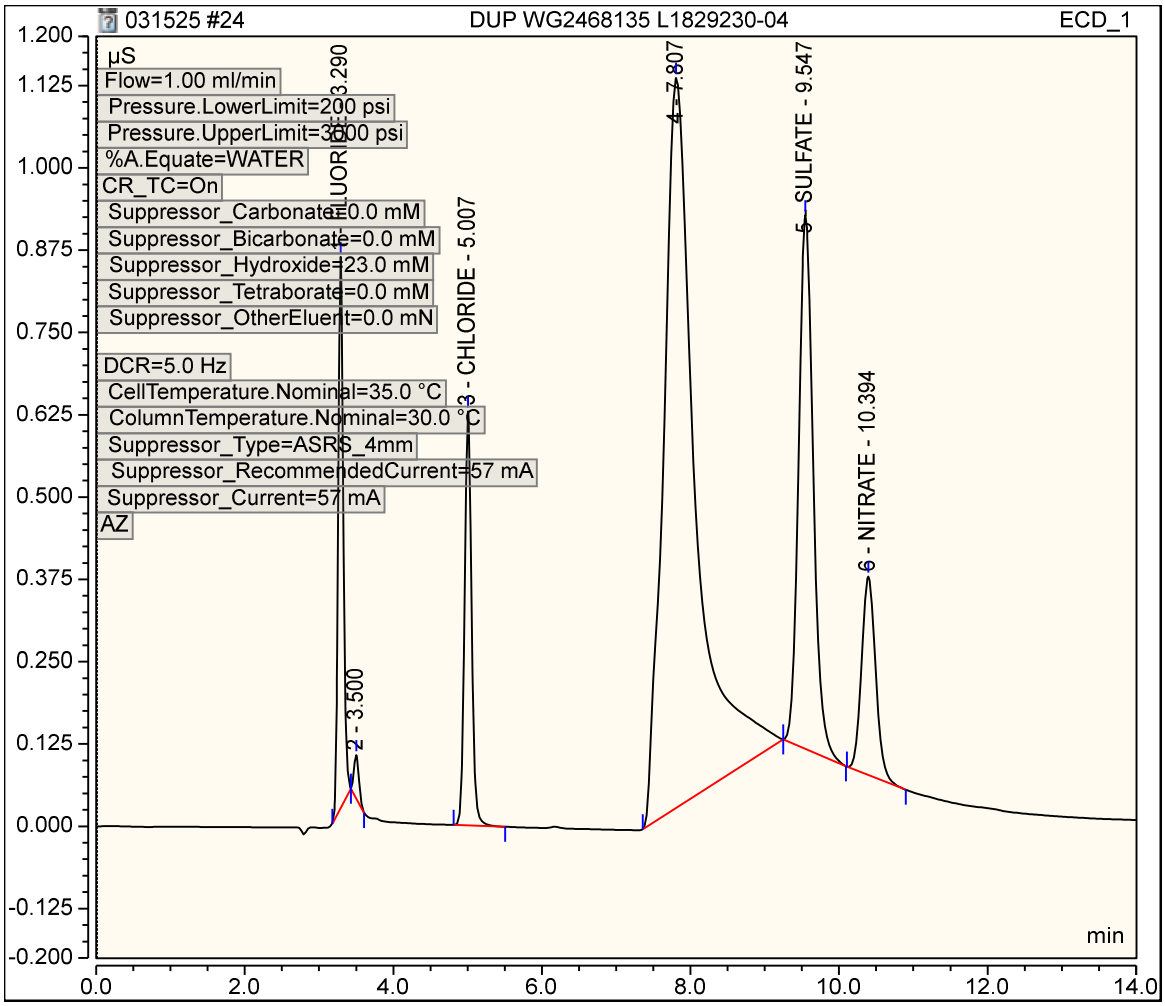
Sample Name:	**L1829230-04 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 18:25**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.063	0.786	0.1865
3	5.02	CHLORIDE	BMB	0.075	0.681	0.4182
4	6.18	NITRITE	BMB	0.001	0.011	n.a.
6	9.57	SULFATE	bMB	0.099	0.441	0.0703
8	10.41	NITRATE	bMB	0.062	0.302	0.1506
		TOTAL:		0.30	2.22	0.83



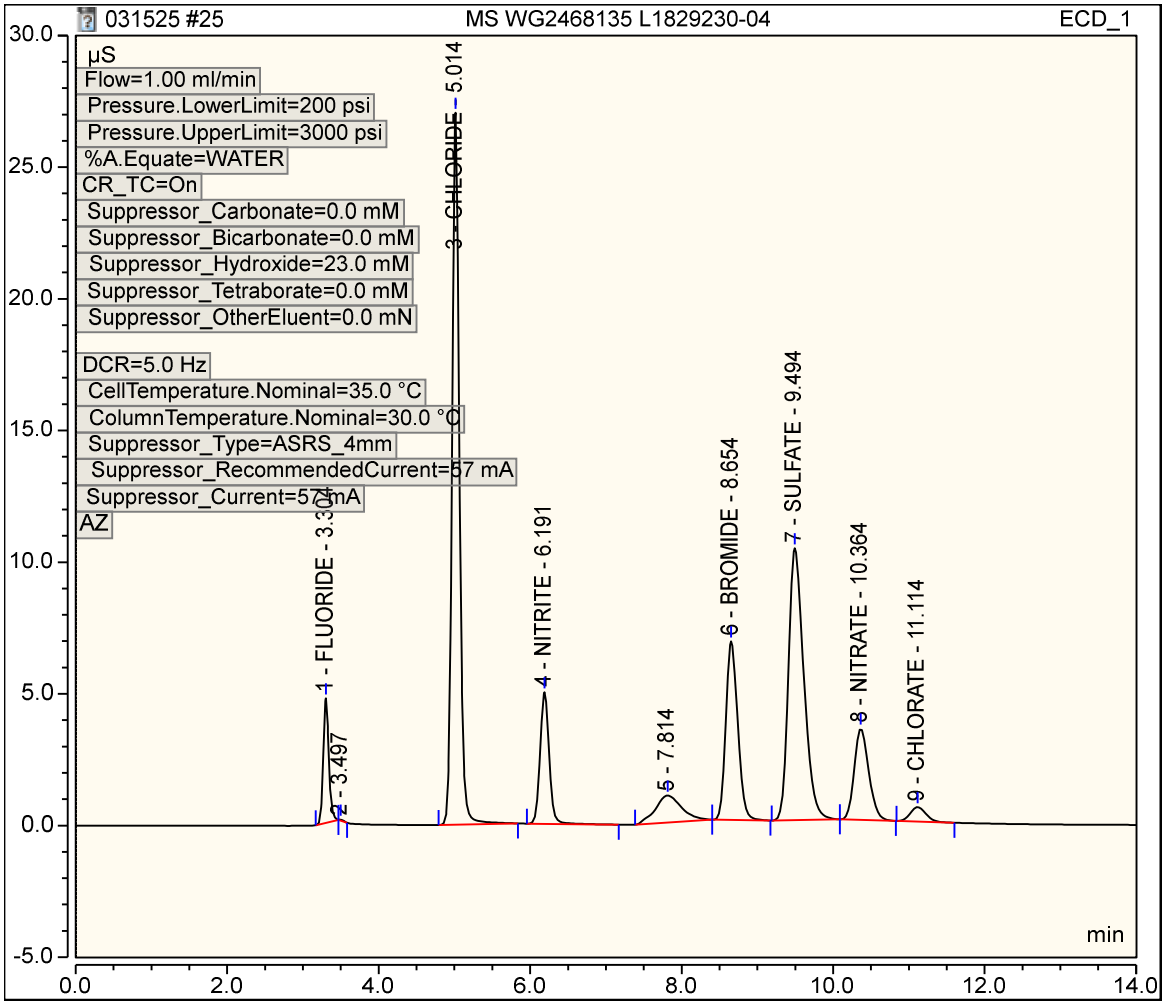
Sample Name:	**DUP WG2468135 L1829230-04**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 18:42**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.067	0.837	0.2018
3	5.01	CHLORIDE	BMB	0.069	0.629	0.3699
5	9.55	SULFATE	bMB	0.186	0.810	0.8799
6	10.39	NITRATE	BMB	0.067	0.302	0.1647
		TOTAL:		0.39	2.58	1.62



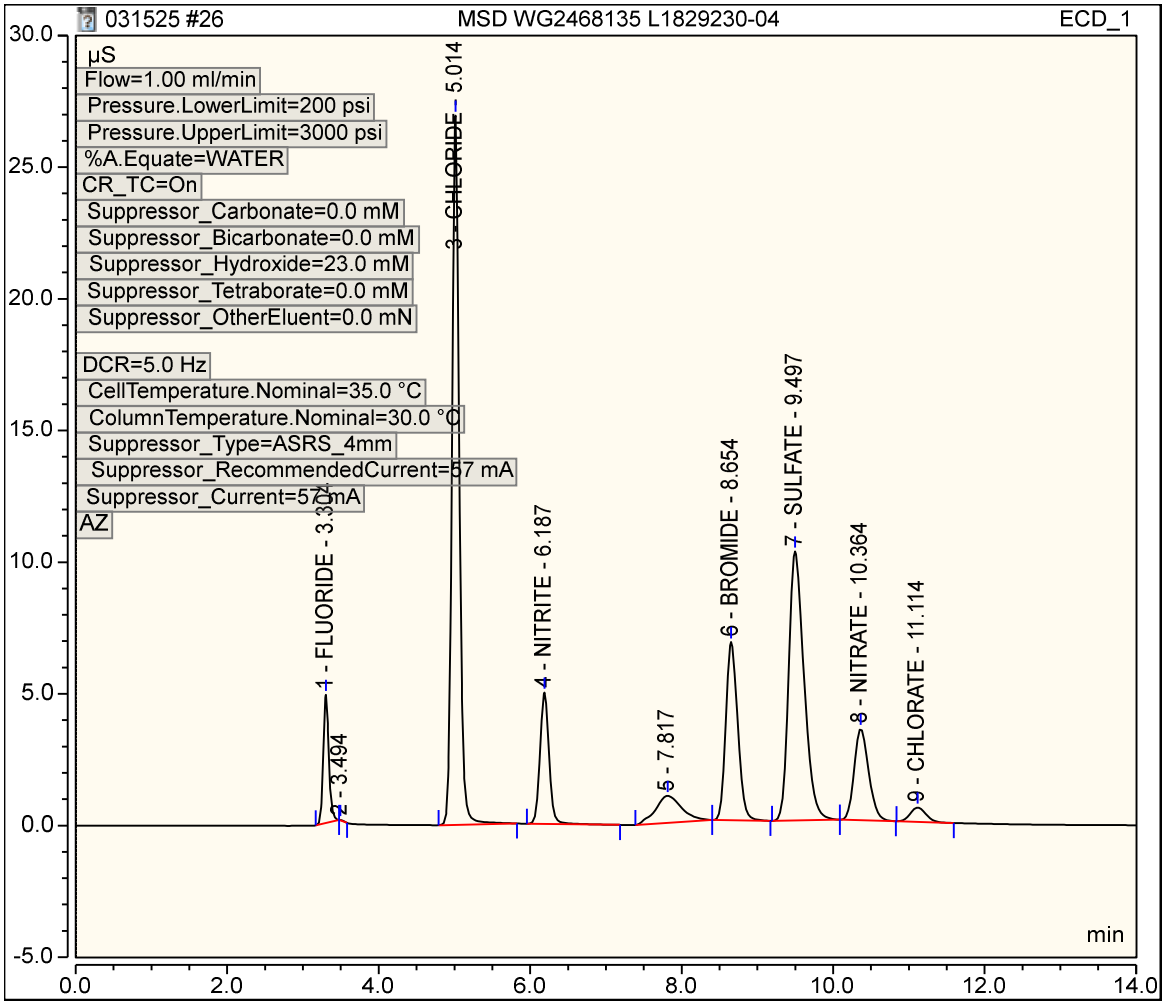
Sample Name:	**MS WG2468135 L1829230-04**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 18:59**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.398	4.724	1.4153
3	5.01	CHLORIDE	BMB	3.038	27.039	21.1797
4	6.19	NITRITE	BMB	0.704	4.997	2.1204
6	8.65	BROMIDE	bMB	1.233	6.784	19.8585
7	9.49	SULFATE	BMb	2.439	10.326	21.9560
8	10.36	NITRATE	bMB	0.775	3.476	2.1682
9	11.11	CHLORATE	BMB	0.132	0.550	2.7585
		TOTAL:		8.72	57.90	71.46



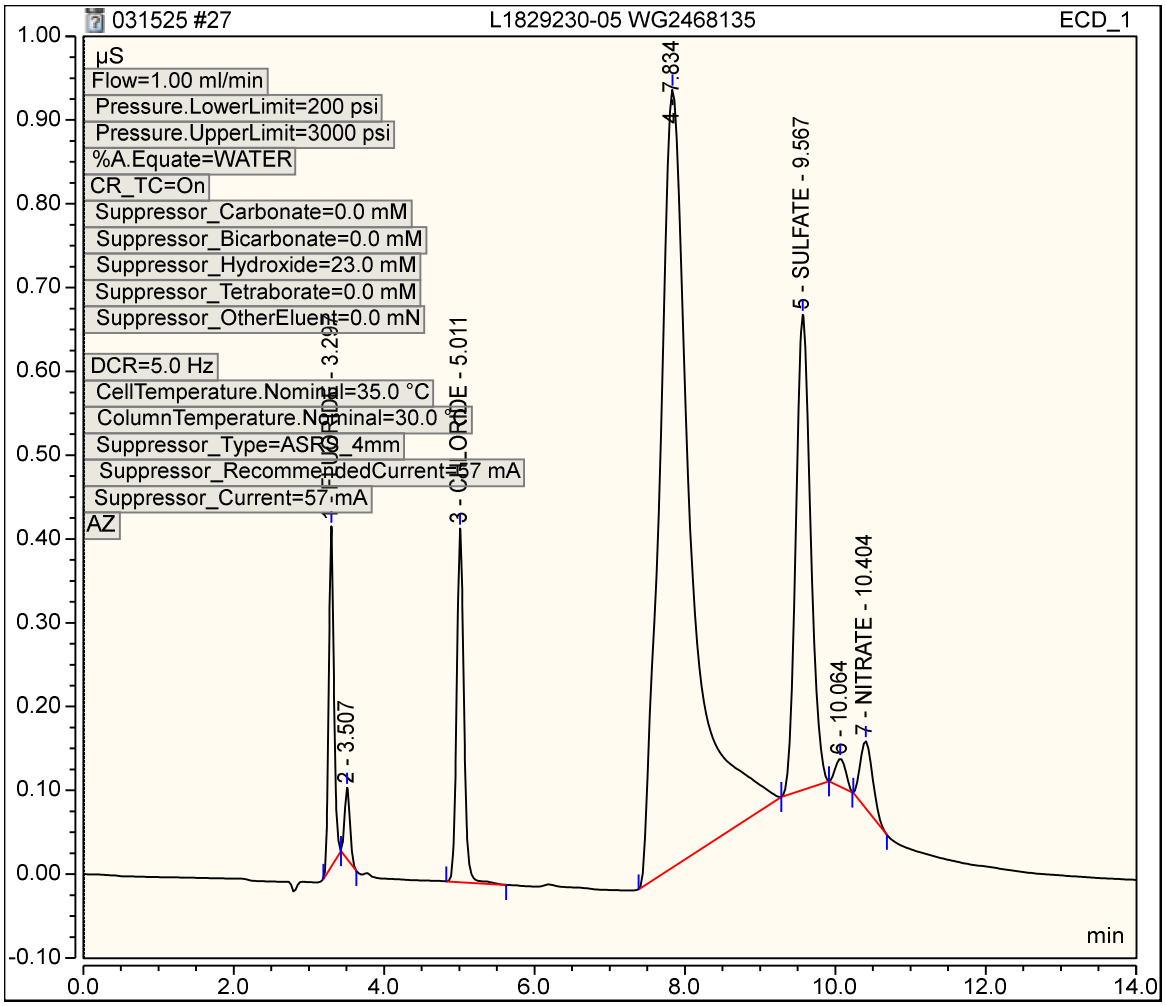
Sample Name:	**MSD WG2468135 L1829230-04**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 19:15**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.411	4.868	1.4624
3	5.01	CHLORIDE	BMB	3.024	26.936	21.0765
4	6.19	NITRITE	BMB	0.703	4.992	2.1198
6	8.65	BROMIDE	bMB	1.230	6.767	19.8143
7	9.50	SULFATE	BMb	2.408	10.216	21.6659
8	10.36	NITRATE	bMB	0.777	3.480	2.1733
9	11.11	CHLORATE	BMB	0.131	0.546	2.7463
		TOTAL:		8.68	57.80	71.06



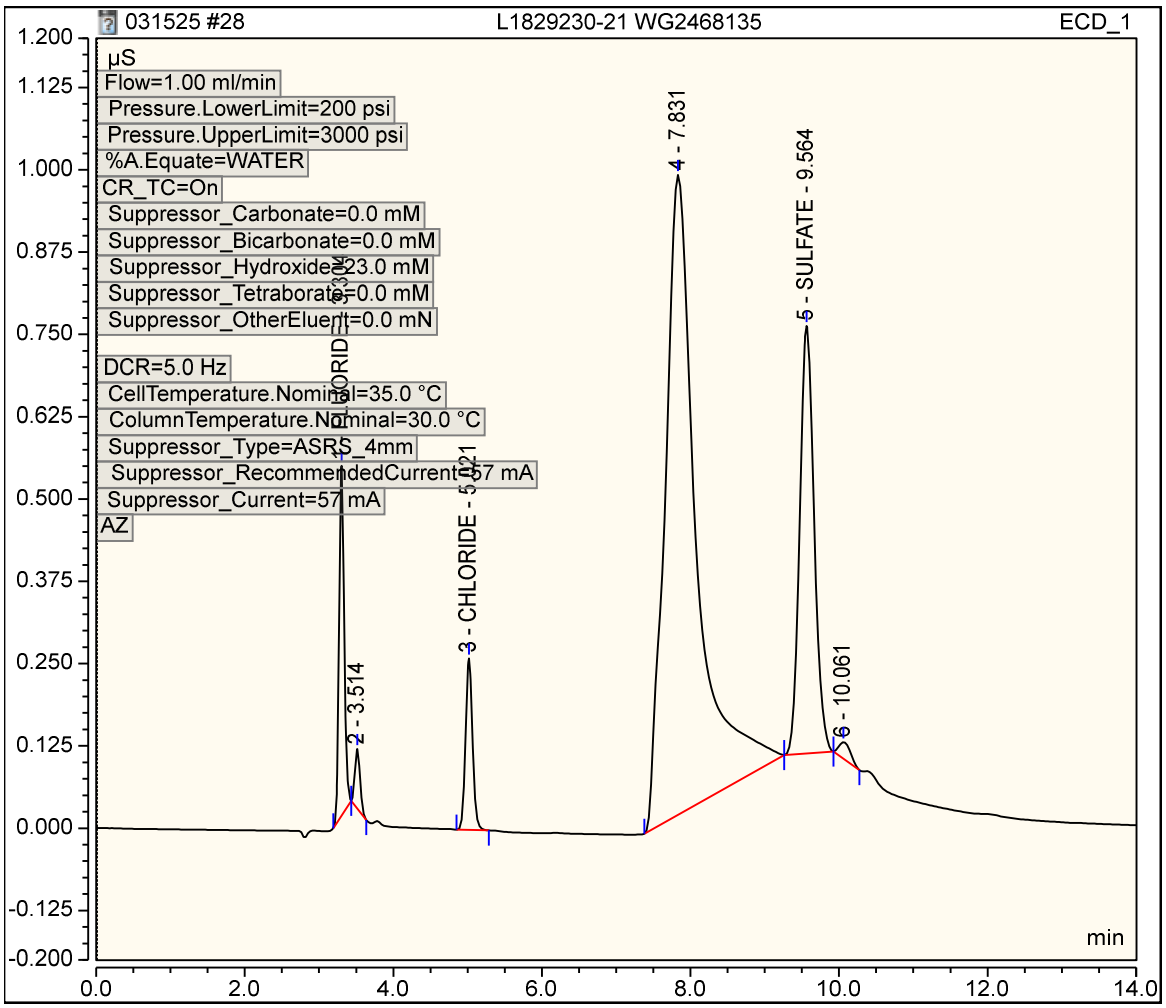
Sample Name:	**L1829230-05 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 19:32**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.032	0.406	0.0735
3	5.01	CHLORIDE	BMB	0.046	0.422	0.2145
5	9.57	SULFATE	bMb	0.130	0.567	0.3604
7	10.40	NITRATE	BMB	0.016	0.081	0.0204
		TOTAL:		0.22	1.48	0.67



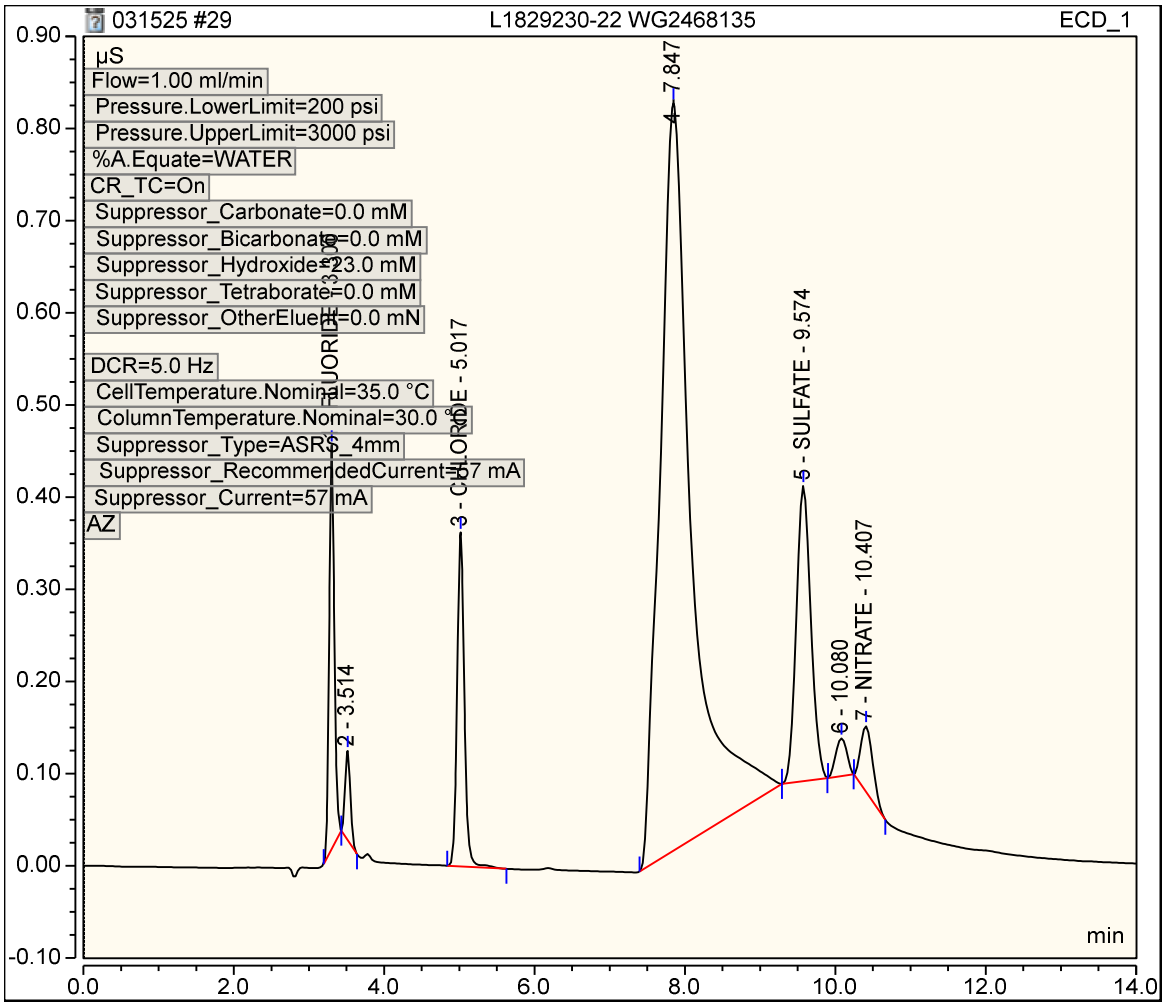
Sample Name:	**L1829230-21 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 19:49**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.042	0.531	0.1110
3	5.02	CHLORIDE	BMB	0.028	0.261	0.0850
5	9.56	SULFATE	bMb	0.147	0.649	0.5158
		TOTAL:		0.22	1.44	0.71



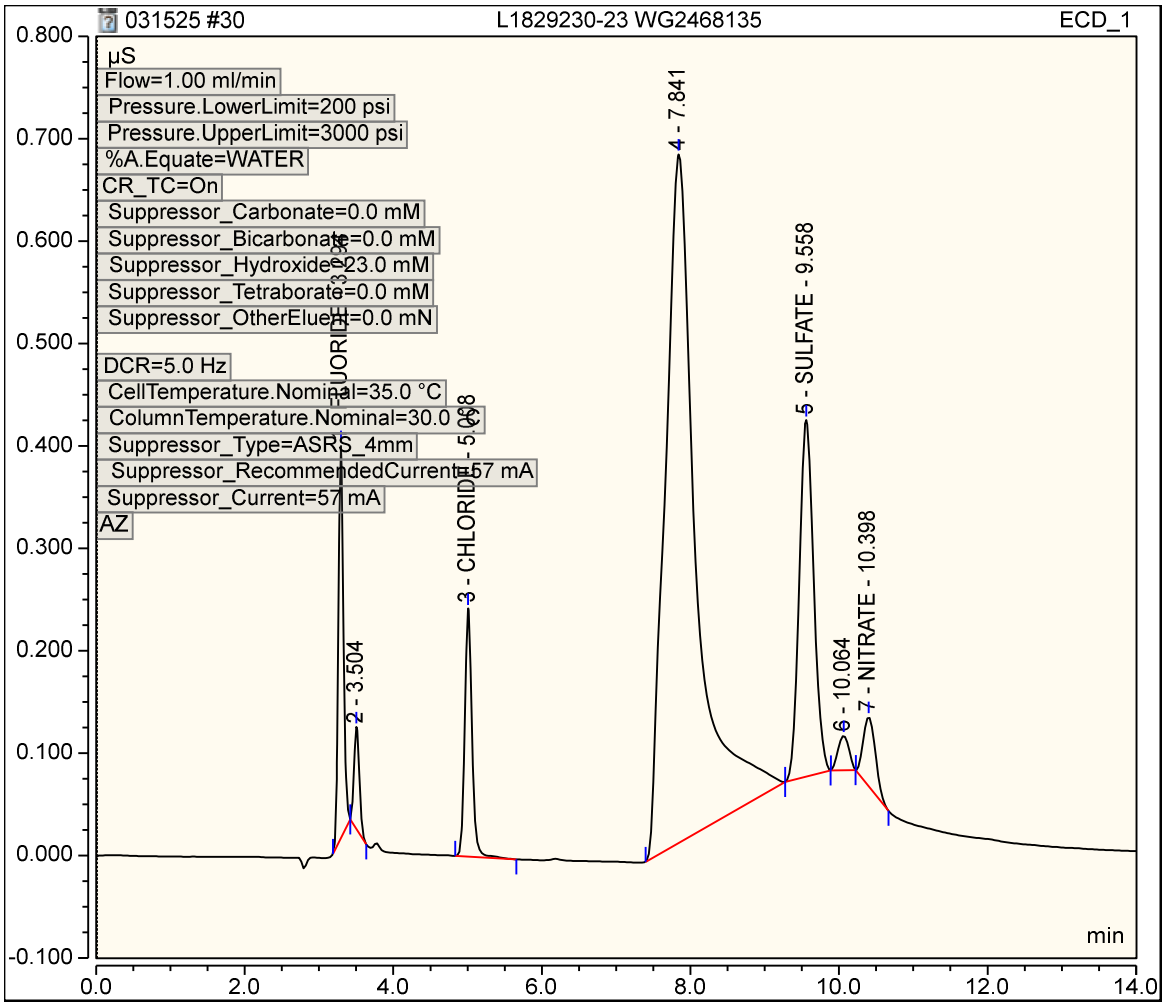
Sample Name:	**L1829230-22 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 20:06**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.035	0.438	0.0831
3	5.02	CHLORIDE	BMB	0.040	0.362	0.1699
5	9.57	SULFATE	bMB	0.072	0.320	n.a.
7	10.41	NITRATE	BMB	0.013	0.071	0.0143
		TOTAL:		0.16	1.19	0.27



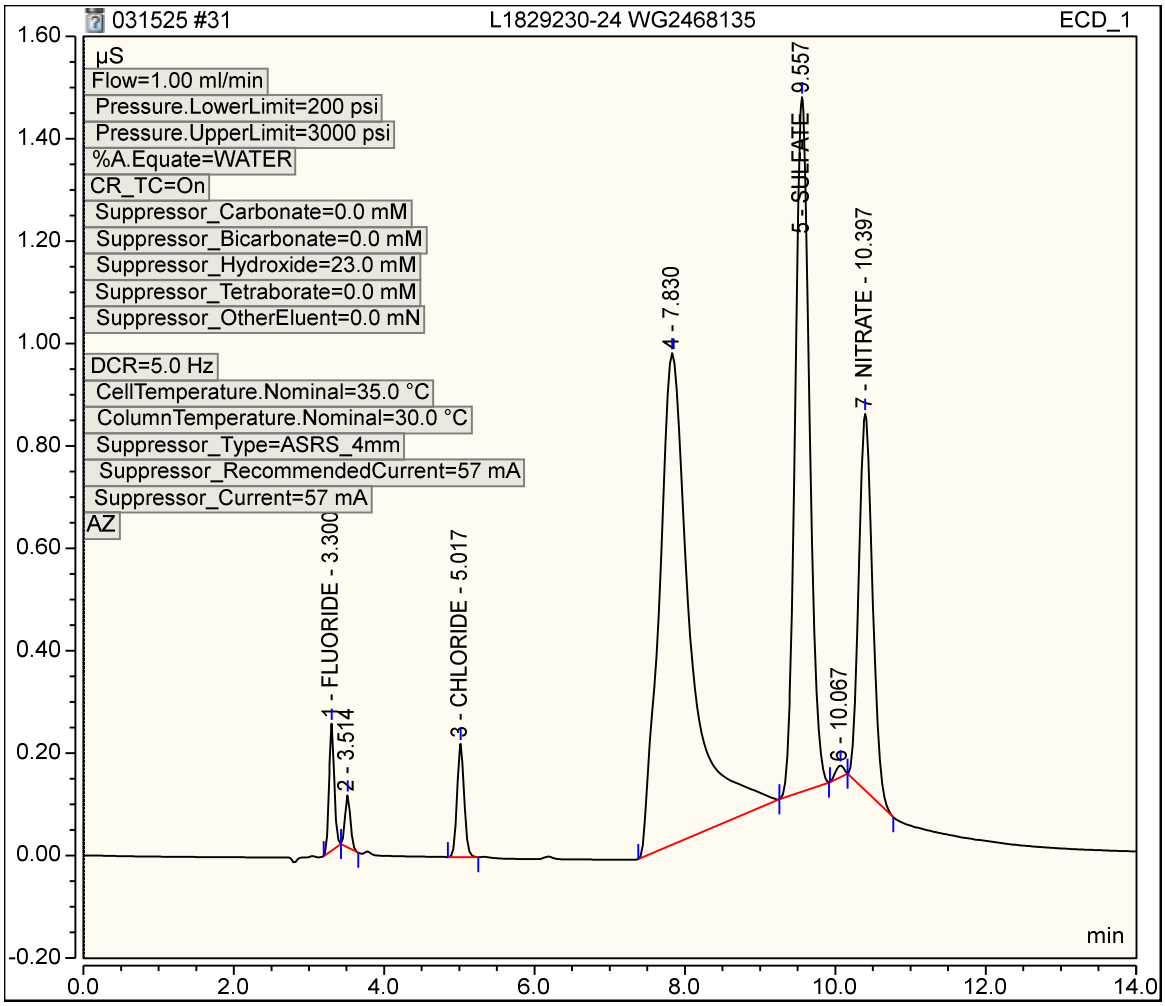
Sample Name:	**L1829230-23 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 20:23**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.030	0.383	0.0671
3	5.01	CHLORIDE	BMB	0.027	0.242	0.0796
5	9.56	SULFATE	bMB	0.079	0.348	n.a.
7	10.40	NITRATE	BMB	0.013	0.068	0.0133
		TOTAL:		0.15	1.04	0.16



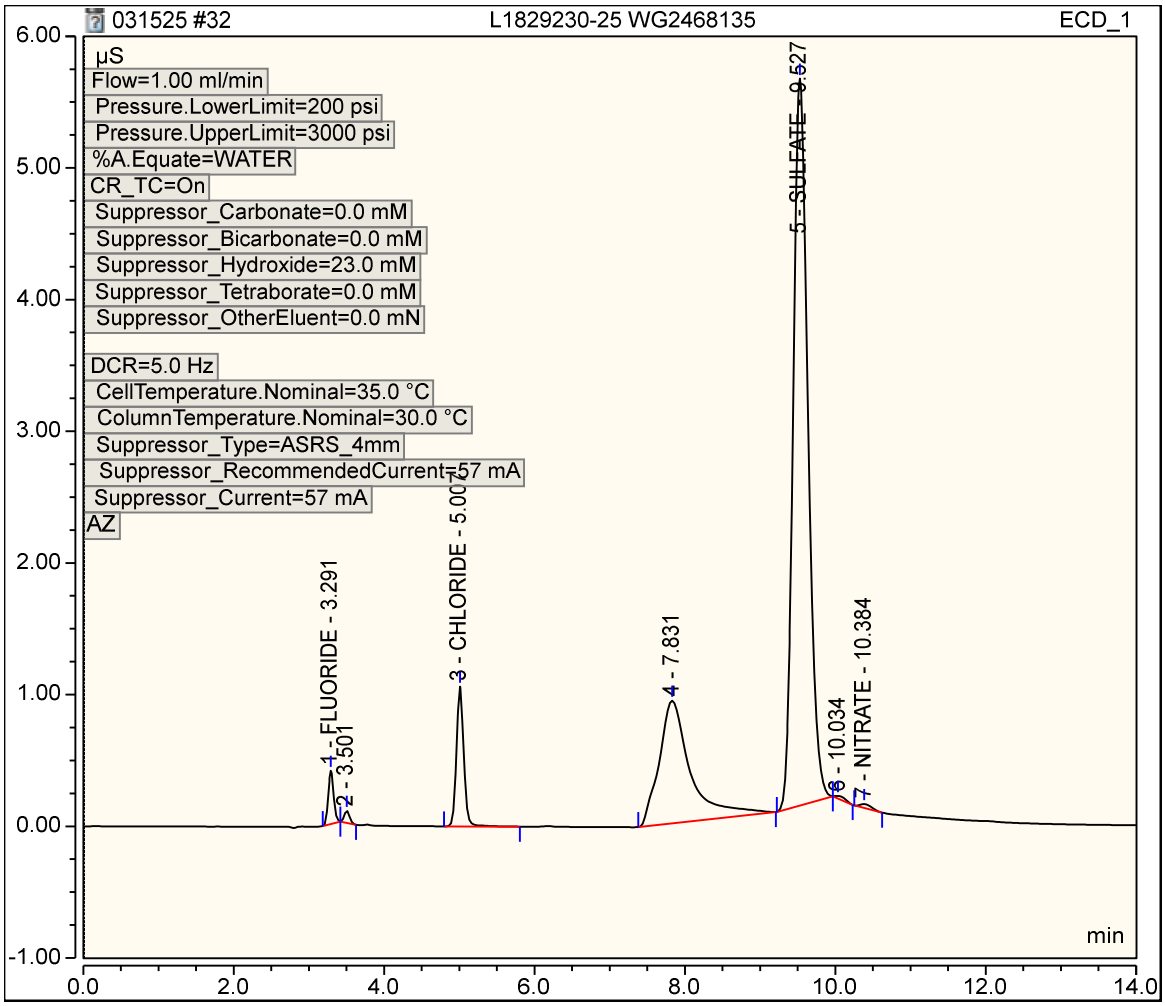
Sample Name:	**L1829230-24 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 20:40**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.019	0.248	0.0273
3	5.02	CHLORIDE	BMB	0.024	0.221	0.0549
5	9.56	SULFATE	BMB	0.301	1.356	1.9637
7	10.40	NITRATE	bMB	0.155	0.735	0.4156
		TOTAL:		0.50	2.56	2.46



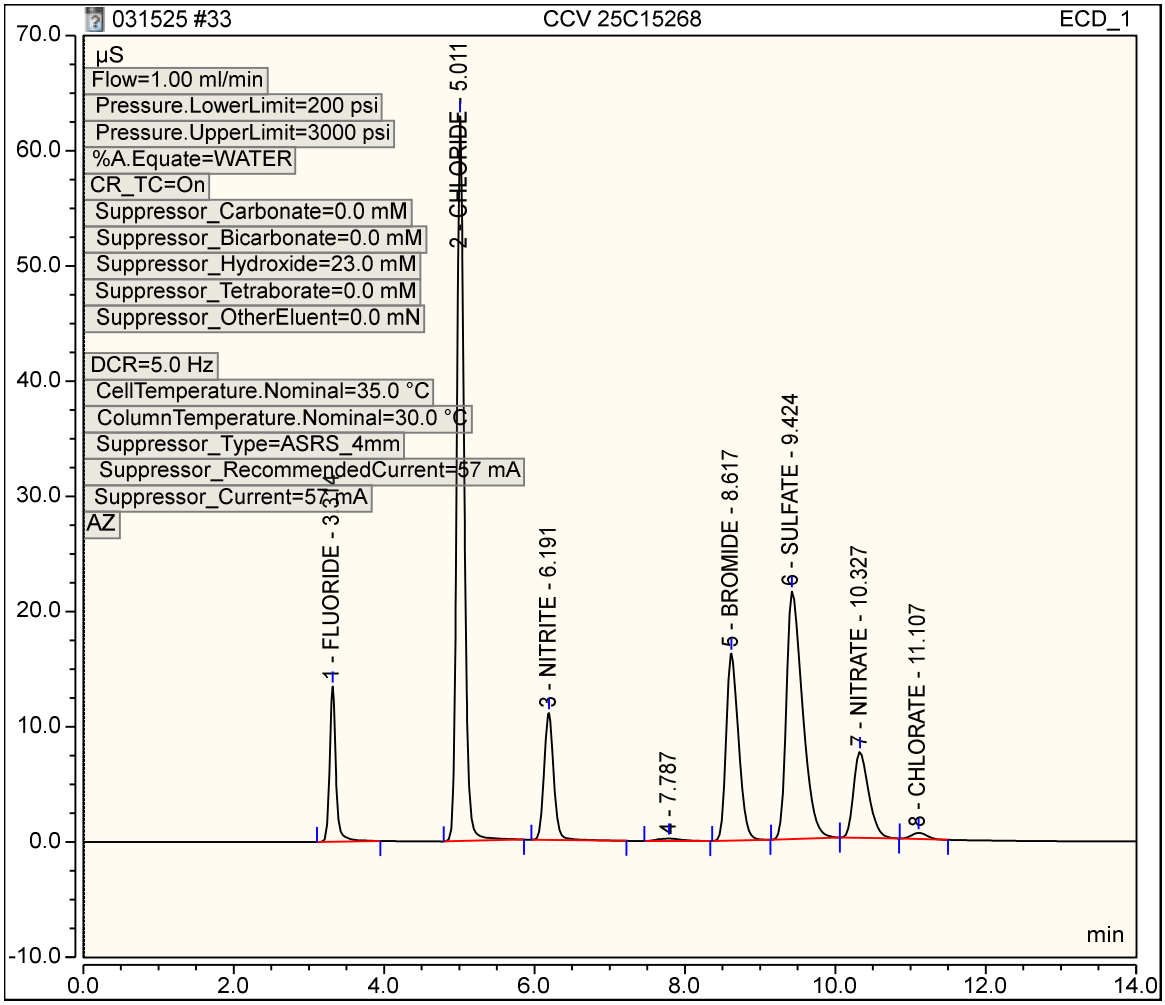
Sample Name:	**L1829230-25 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 20:57**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.032	0.405	0.0737
3	5.01	CHLORIDE	BMB	0.118	1.061	0.7136
5	9.53	SULFATE	BMb	1.260	5.520	10.9326
7	10.38	NITRATE	BMB	0.006	0.031	n.a.
		TOTAL:		1.42	7.02	11.72



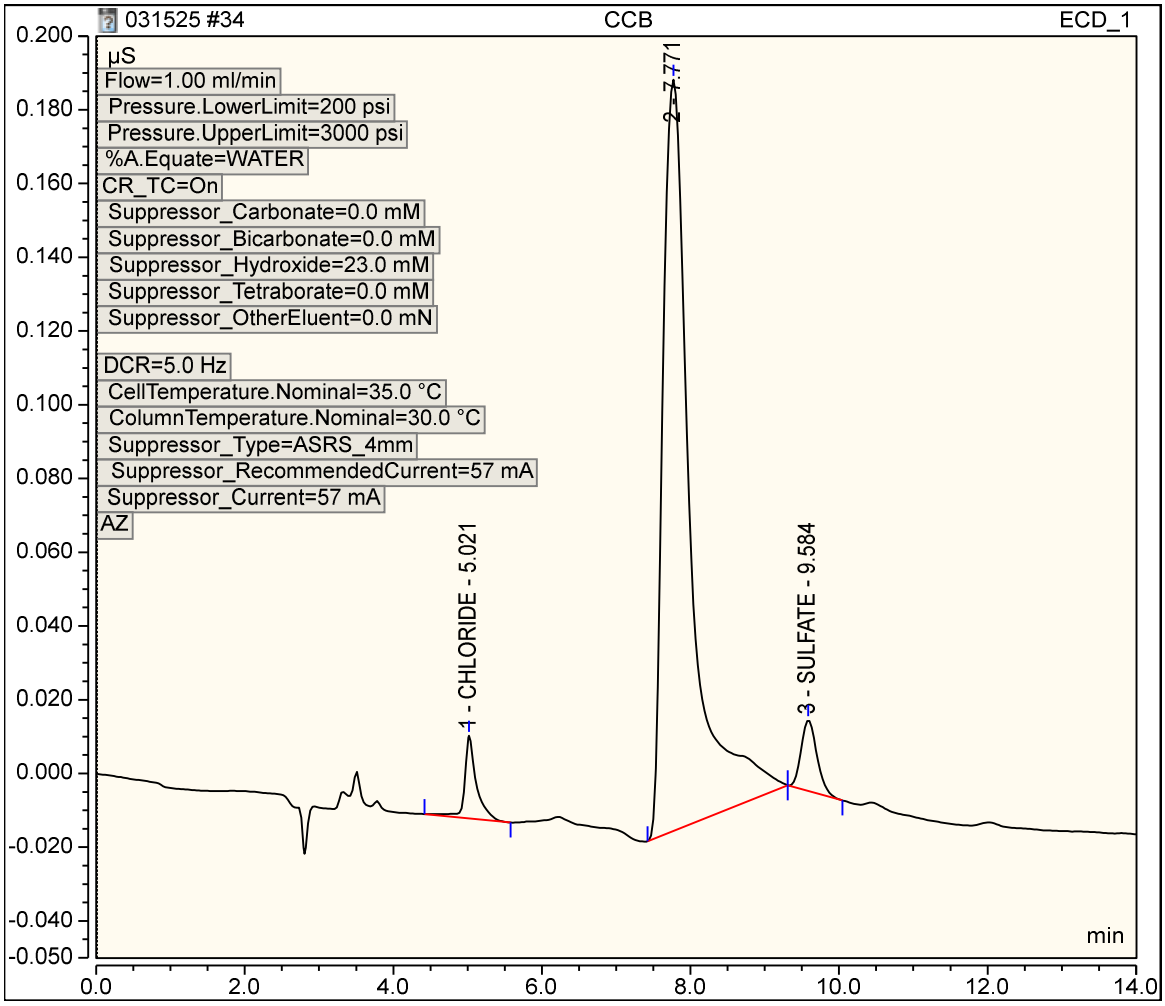
Sample Name:	**CCV 25C15268**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 21:13**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMB	1.297	13.487	4.7133
2	5.01	CHLORIDE	BMB	7.139	62.911	49.9138
3	6.19	NITRITE	BMB	1.639	11.030	4.9972
5	8.62	BROMIDE	BMB	3.078	16.246	49.7381
6	9.42	SULFATE	BMb	5.403	21.537	49.6688
7	10.33	NITRATE	bMB	1.744	7.450	4.9097
8	11.11	CHLORATE	BMB	0.125	0.524	2.6168
		TOTAL:		20.42	133.19	166.56



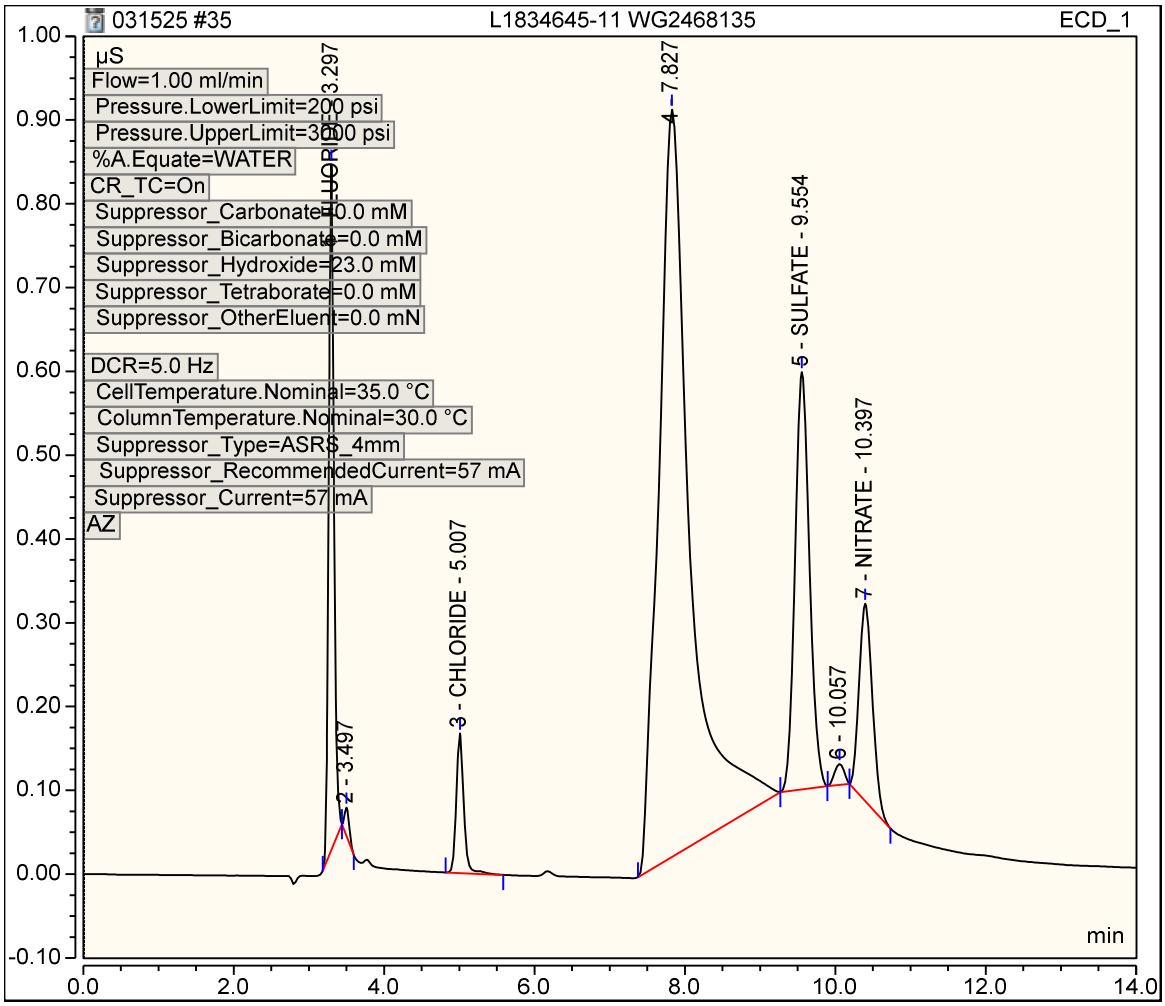
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 21:34**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	5.02	CHLORIDE	BMB	0.004	0.022	n.a.
3	9.58	SULFATE	bMB	0.005	0.019	n.a.
		TOTAL:		0.01	0.04	0.00



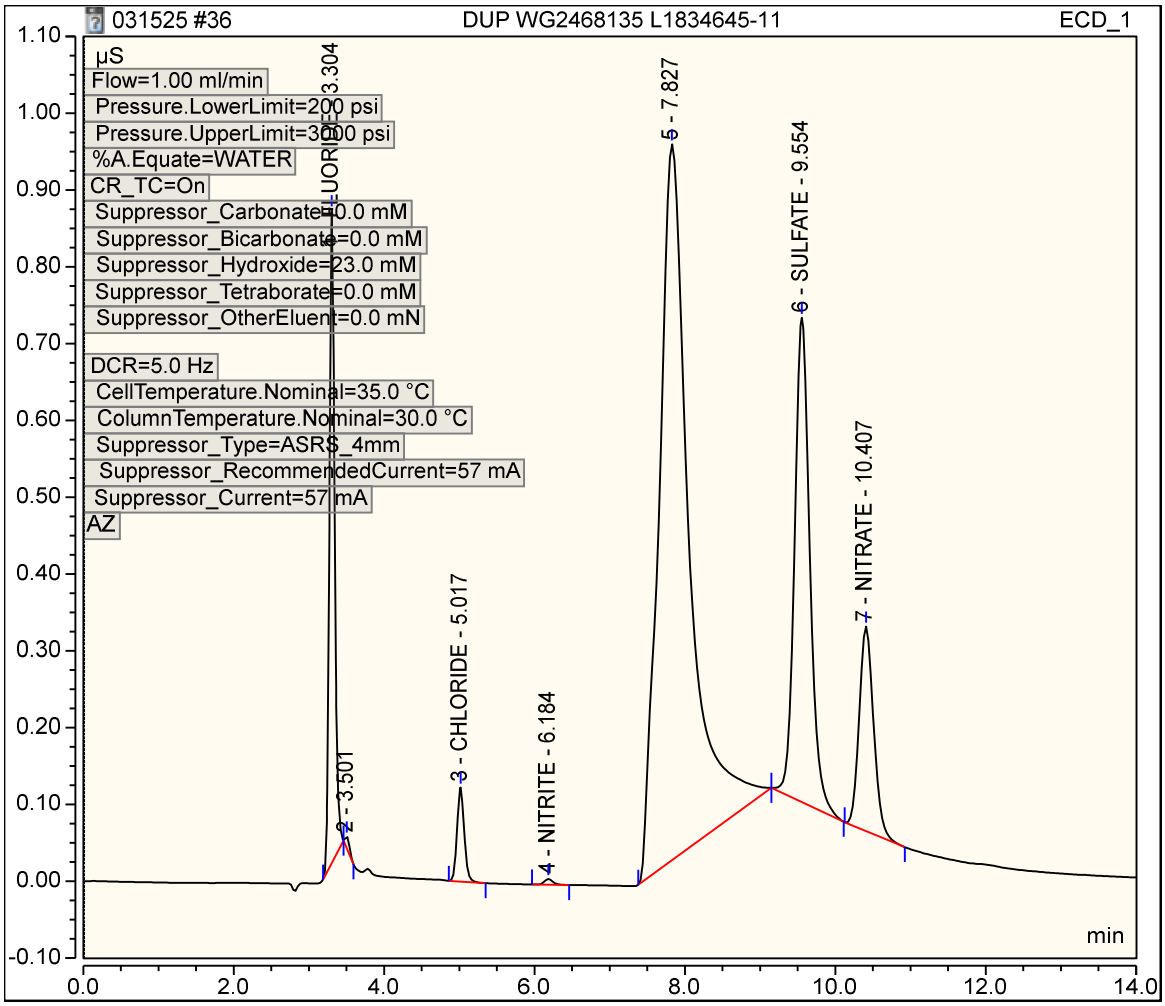
Sample Name:	**L1834645-11 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 21:50**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.066	0.818	0.1985
3	5.01	CHLORIDE	BMB	0.019	0.167	0.0215
5	9.55	SULFATE	bMB	0.112	0.498	0.1904
7	10.40	NITRATE	bMB	0.049	0.235	0.1139
		TOTAL:		0.25	1.72	0.52



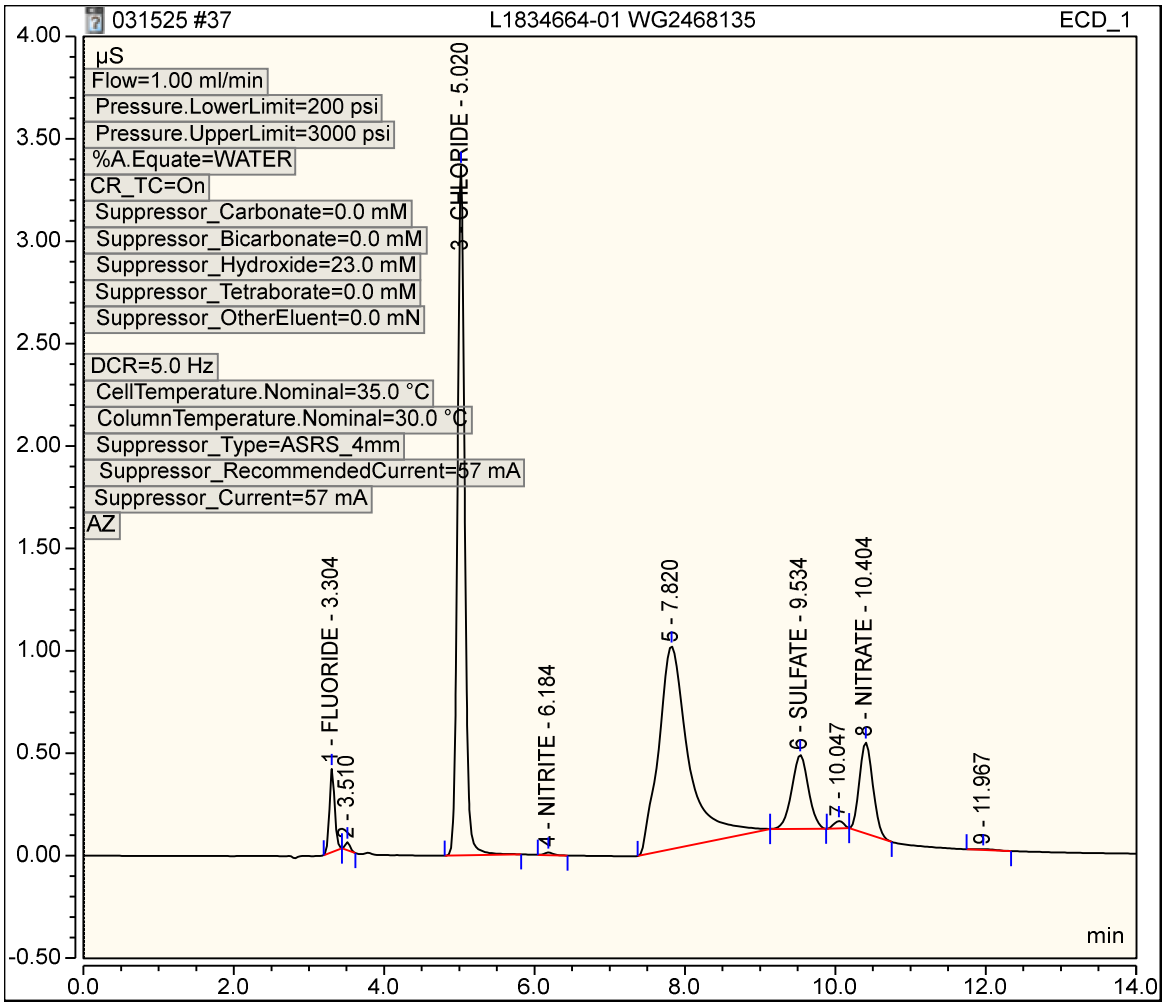
Sample Name:	**DUP WG2468135 L1834645-11**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 22:07**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.069	0.850	0.2093
3	5.02	CHLORIDE	BMB	0.013	0.123	n.a.
4	6.18	NITRITE	BMB	0.001	0.007	n.a.
6	9.55	SULFATE	bMB	0.149	0.631	0.5393
7	10.41	NITRATE	BMB	0.059	0.266	0.1434
		TOTAL:		0.29	1.88	0.89



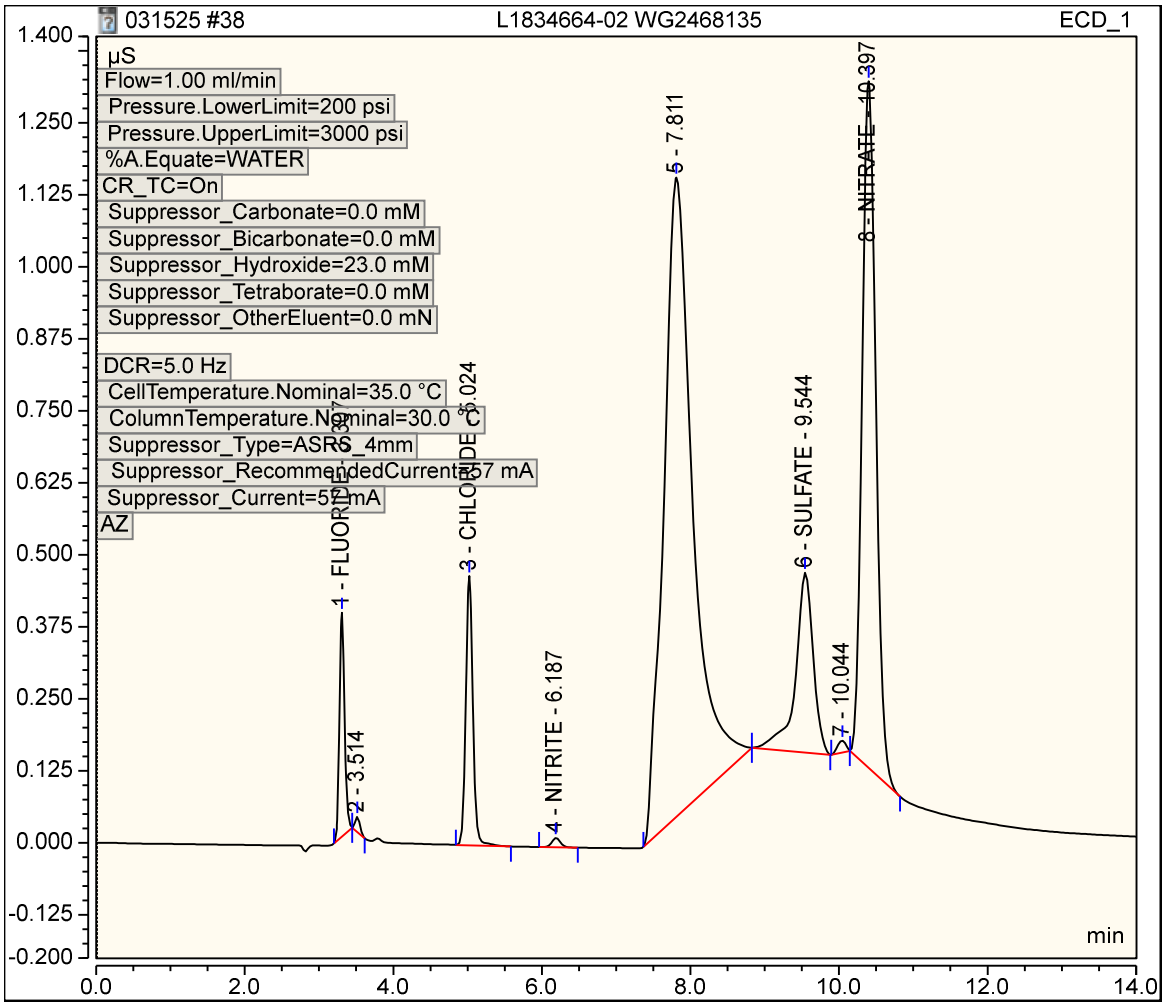
Sample Name:	**L1834664-01 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 22:24**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.033	0.407	0.0753
3	5.02	CHLORIDE	BMB	0.374	3.363	2.5103
4	6.18	NITRITE	BMB	0.002	0.013	n.a.
6	9.53	SULFATE	bMB	0.093	0.361	0.0178
8	10.40	NITRATE	bMB	0.092	0.445	0.2378
		TOTAL:		0.59	4.59	2.84



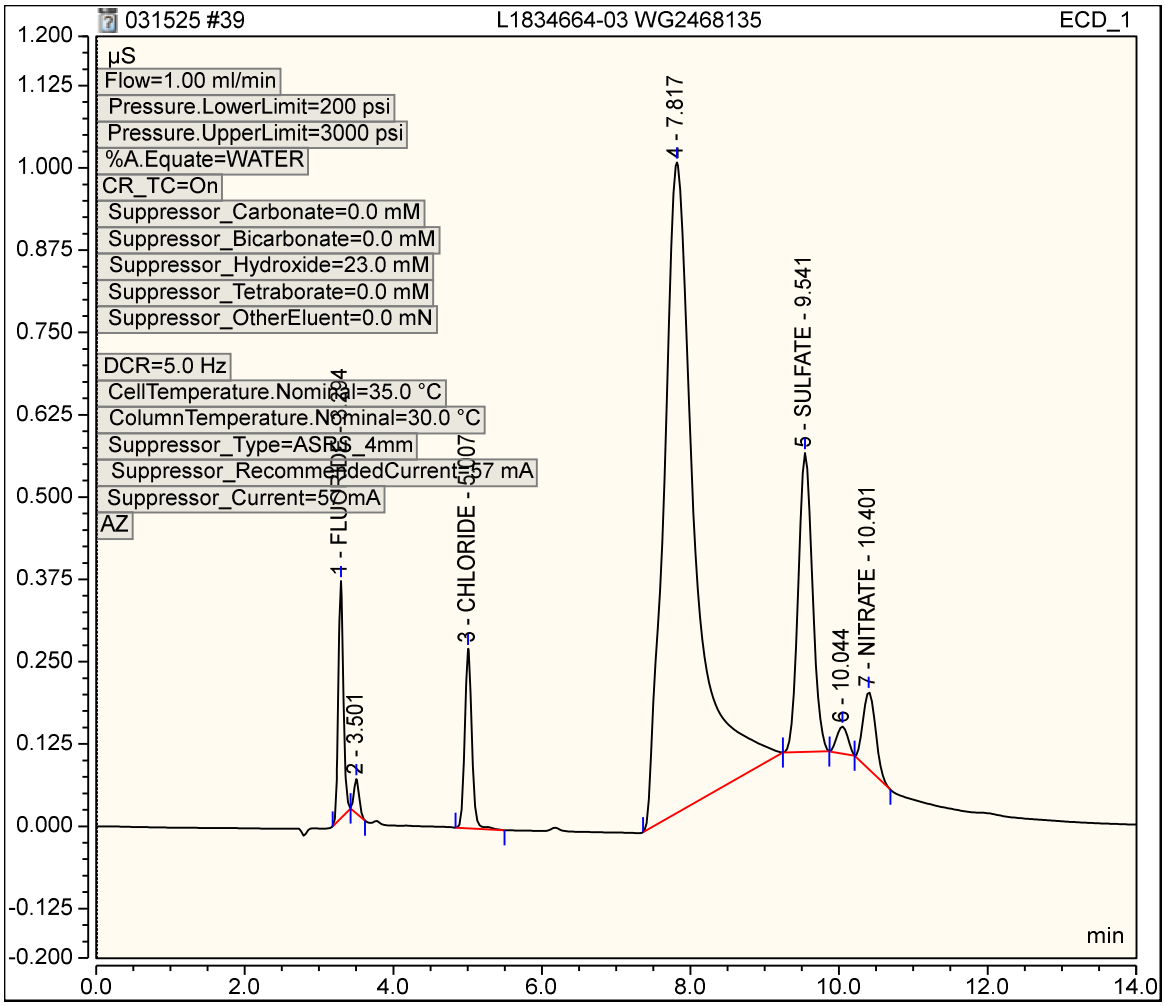
Sample Name:	**L1834664-02 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 22:41**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMb	0.031	0.389	0.0697
3	5.02	CHLORIDE	BMB	0.051	0.467	0.2475
4	6.19	NITRITE	BMB	0.002	0.016	n.a.
6	9.54	SULFATE	bMB	0.087	0.312	n.a.
8	10.40	NITRATE	BMB	0.255	1.191	0.6979
		TOTAL:		0.43	2.38	1.02



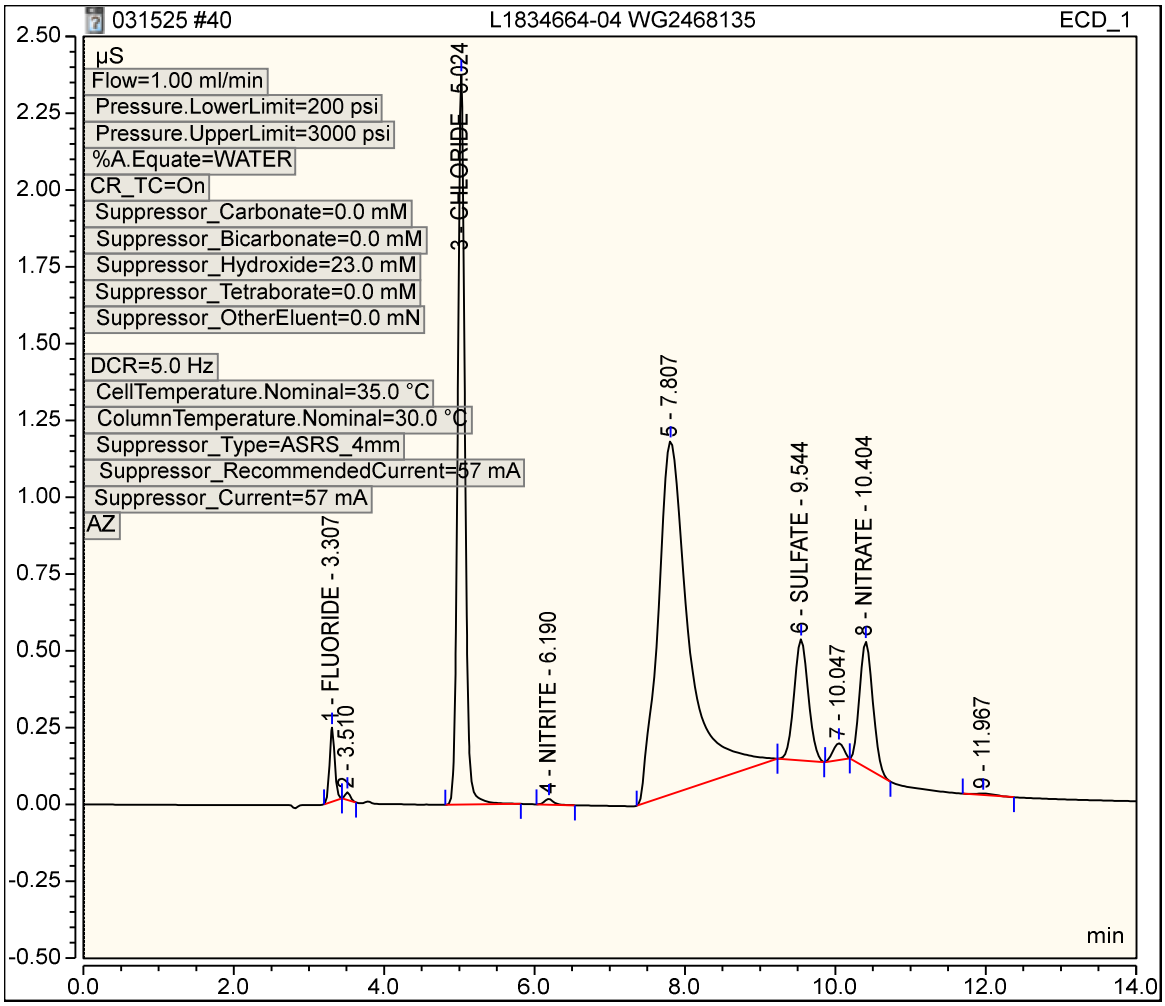
Sample Name:	**L1834664-03 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 22:58**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.029	0.360	0.0607
3	5.01	CHLORIDE	BMB	0.030	0.273	0.0981
5	9.54	SULFATE	bMB	0.101	0.454	0.0913
7	10.40	NITRATE	bMB	0.023	0.117	0.0421
		TOTAL:		0.18	1.20	0.29



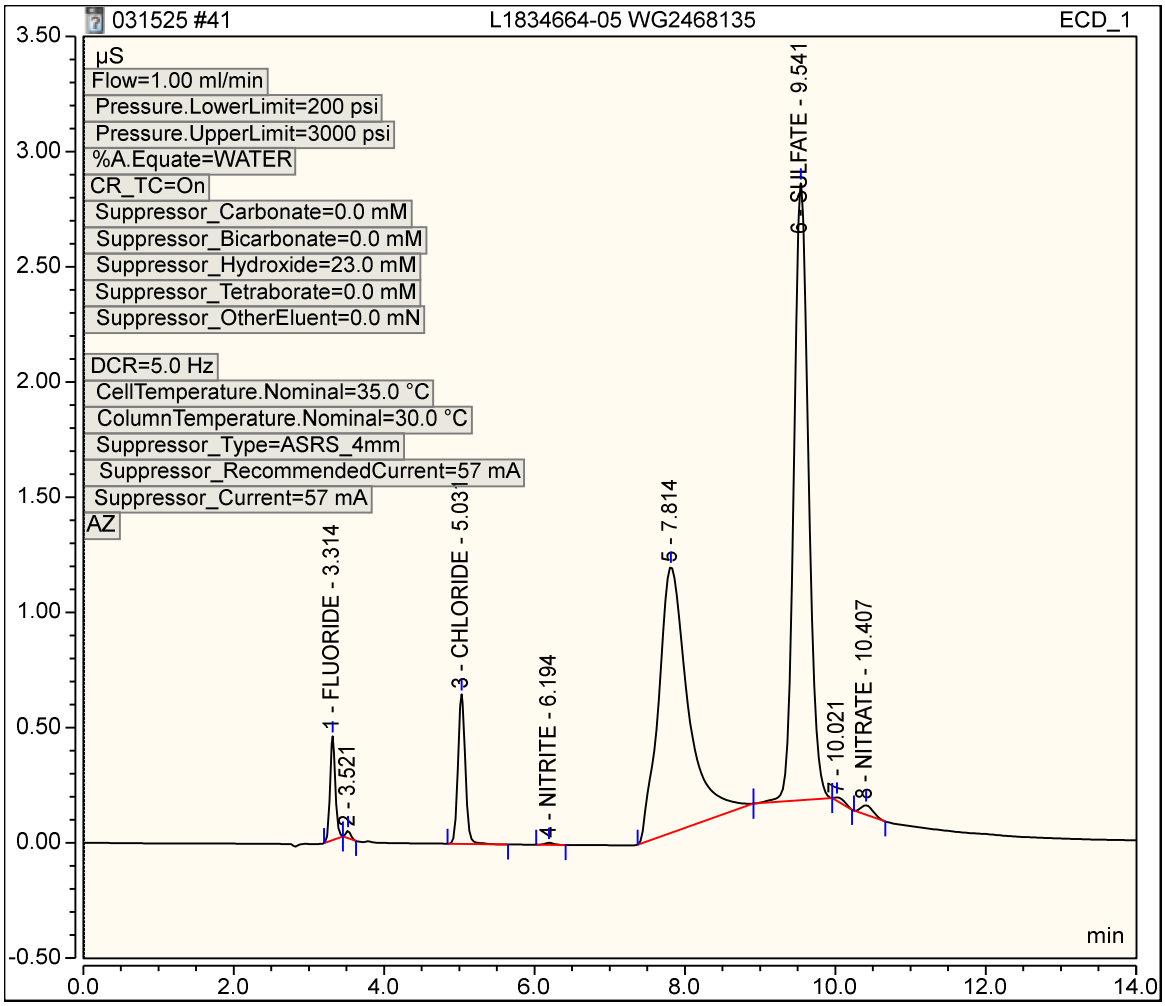
Sample Name:	**L1834664-04 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 23:15**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMb	0.019	0.241	0.0254
3	5.02	CHLORIDE	BMB	0.263	2.375	1.7341
4	6.19	NITRITE	BMB	0.003	0.019	n.a.
6	9.54	SULFATE	bMB	0.087	0.394	n.a.
8	10.40	NITRATE	bMB	0.084	0.410	0.2135
		TOTAL:		0.46	3.44	1.97



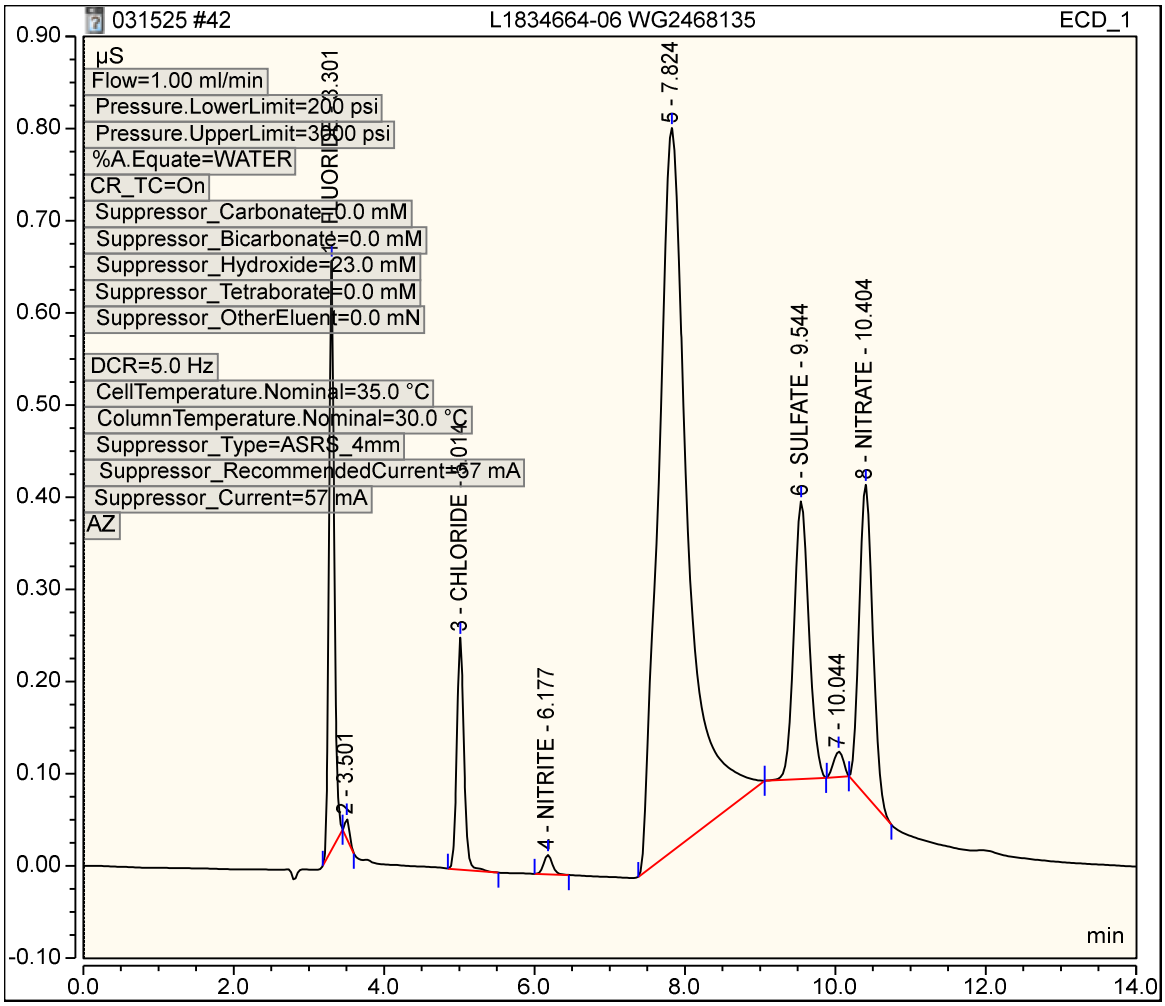
Sample Name:	**L1834664-05 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 23:32**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMb	0.036	0.451	0.0880
3	5.03	CHLORIDE	BMB	0.071	0.649	0.3863
4	6.19	NITRITE	BMB	0.001	0.009	n.a.
6	9.54	SULFATE	bMb	0.607	2.677	4.8182
8	10.41	NITRATE	BMB	0.008	0.041	n.a.
		TOTAL:		0.72	3.83	5.29



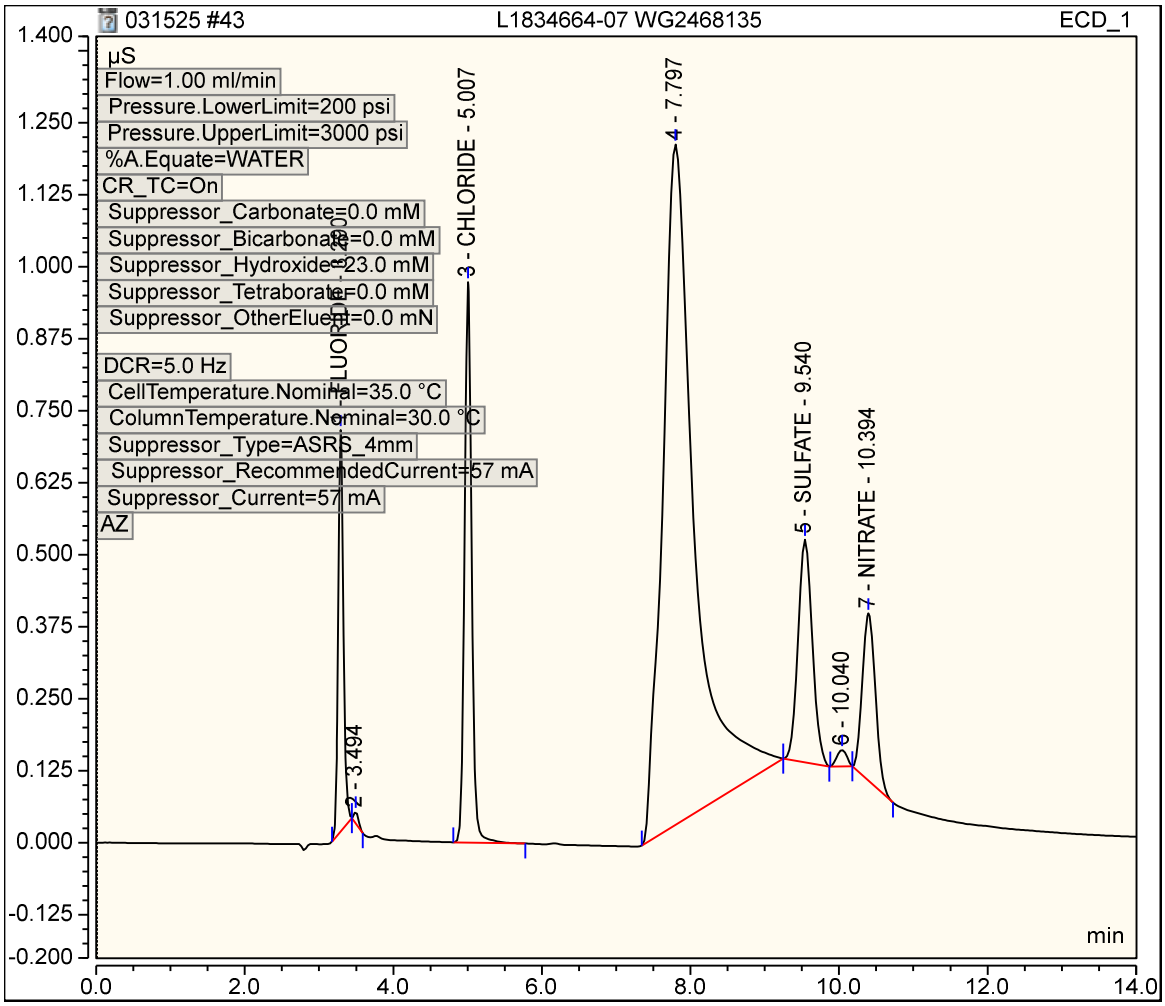
Sample Name:	**L1834664-06 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 23:48**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.052	0.640	0.1451
3	5.01	CHLORIDE	BMB	0.028	0.252	0.0822
4	6.18	NITRITE	BMB	0.003	0.021	n.a.
6	9.54	SULFATE	bMB	0.070	0.302	n.a.
8	10.40	NITRATE	BMB	0.070	0.337	0.1750
		TOTAL:		0.22	1.55	0.40



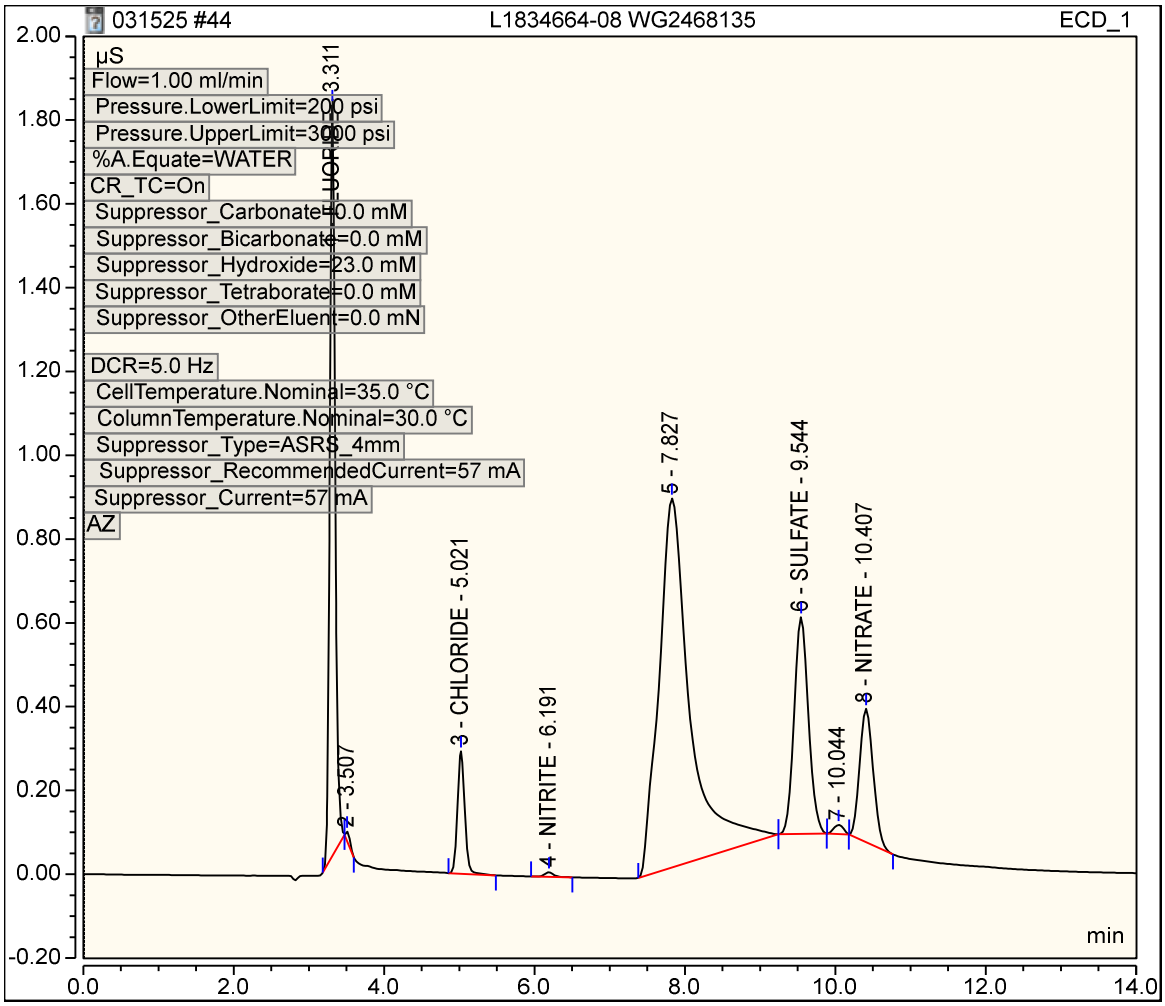
Sample Name:	**L1834664-07 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/16/25 00:05**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.056	0.697	0.1623
3	5.01	CHLORIDE	BMB	0.107	0.973	0.6410
5	9.54	SULFATE	bMB	0.086	0.387	n.a.
7	10.39	NITRATE	bMB	0.060	0.290	0.1455
		TOTAL:		0.31	2.35	0.95



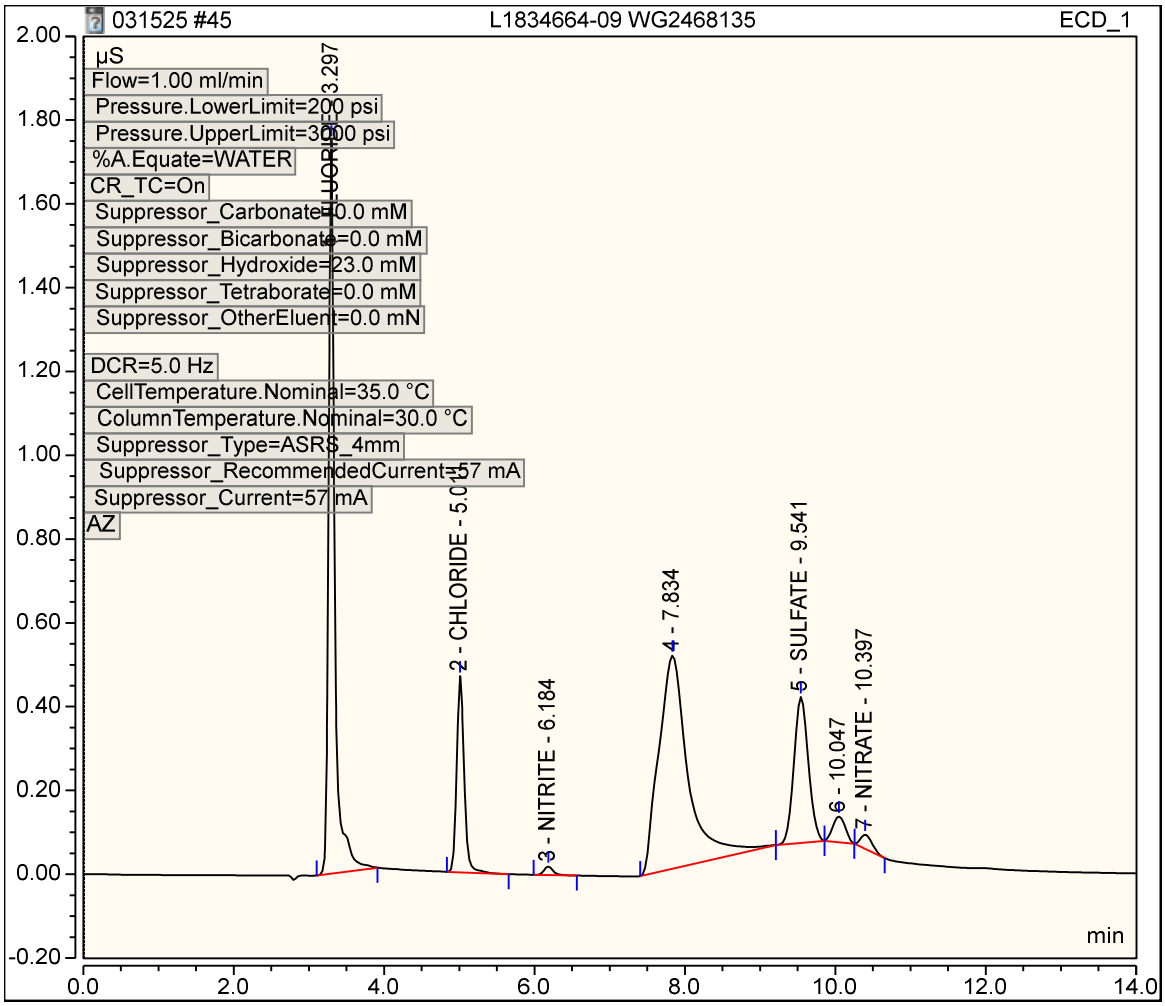
Sample Name:	**L1834664-08 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/16/25 00:22**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMb	0.147	1.793	0.4958
3	5.02	CHLORIDE	BMB	0.032	0.292	0.1132
4	6.19	NITRITE	BMB	0.002	0.011	n.a.
6	9.54	SULFATE	bMB	0.115	0.518	0.2221
8	10.41	NITRATE	BMB	0.067	0.318	0.1652
		TOTAL:		0.36	2.93	1.00



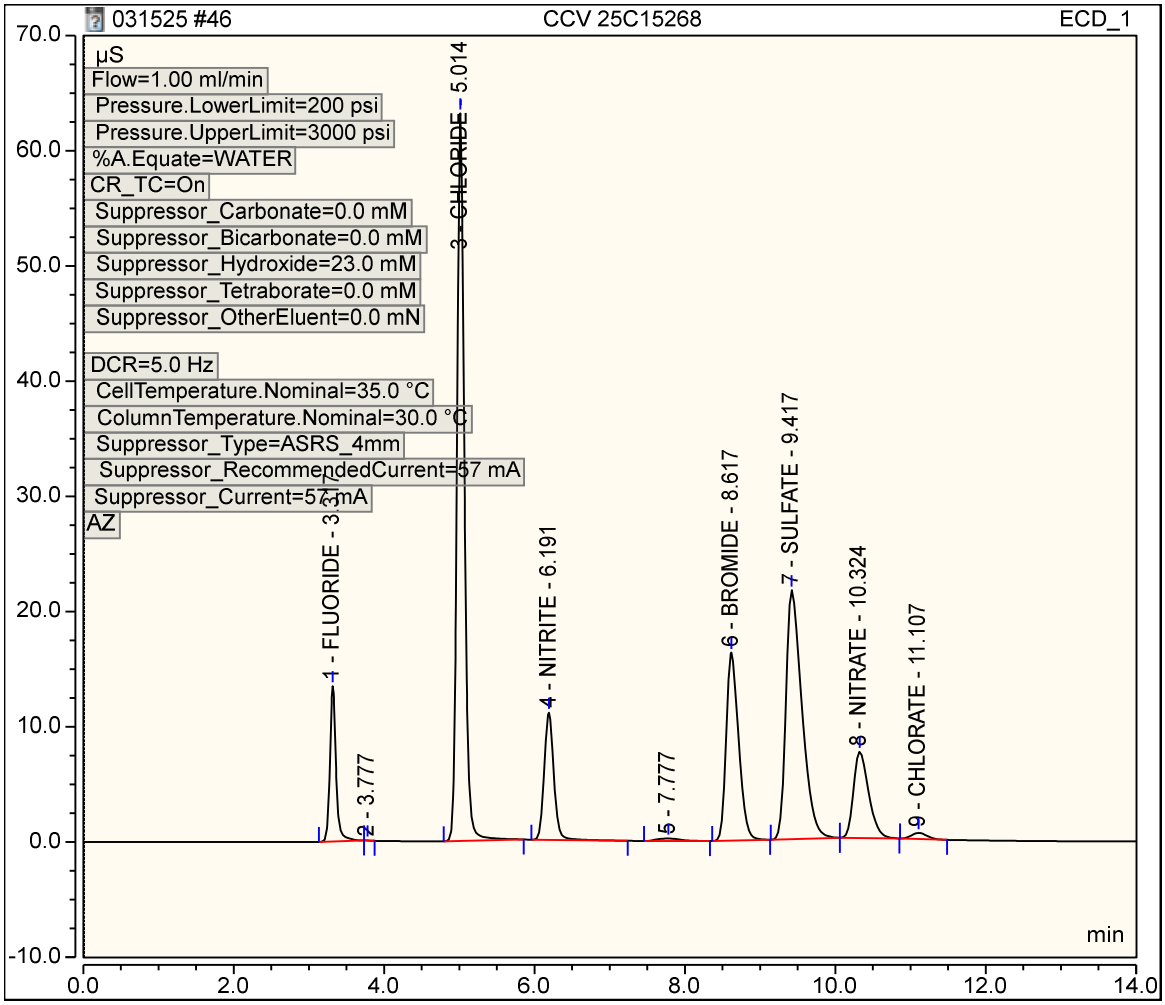
Sample Name:	**L1834664-09 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/16/25 00:39**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMB	0.168	1.751	0.5725
2	5.01	CHLORIDE	BMB	0.053	0.468	0.2597
3	6.18	NITRITE	BMB	0.003	0.021	n.a.
5	9.54	SULFATE	bMb	0.078	0.348	n.a.
7	10.40	NITRATE	BMB	0.006	0.034	n.a.
		TOTAL:		0.31	2.62	0.83



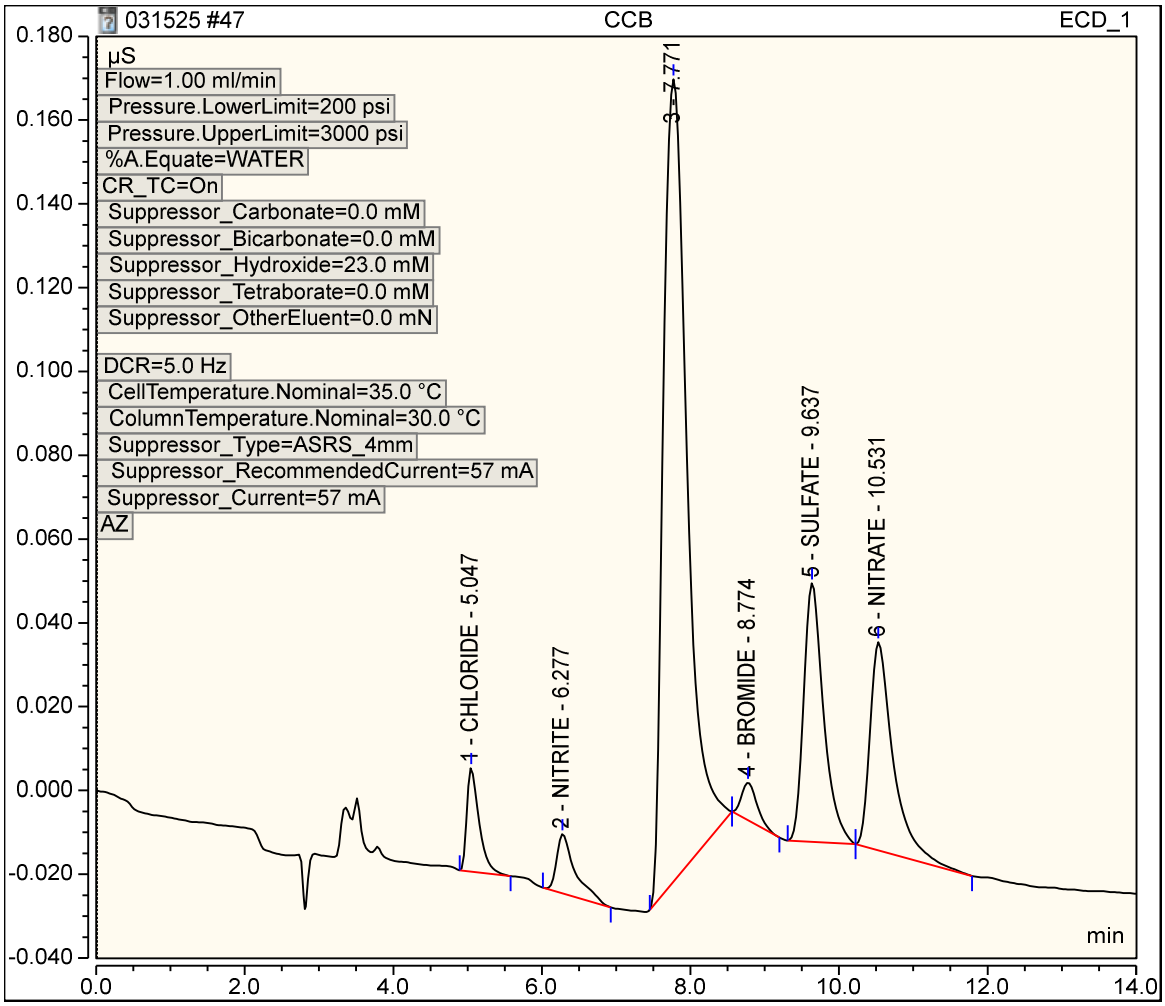
Sample Name:	**CCV 25C15268**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/16/25 00:56**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.32	FLUORIDE	BMb	1.271	13.491	4.6169
3	5.01	CHLORIDE	BMB	7.158	63.159	50.0435
4	6.19	NITRITE	BMB	1.645	11.050	5.0151
6	8.62	BROMIDE	BMB	3.087	16.310	49.8962
7	9.42	SULFATE	BMb	5.368	21.599	49.3445
8	10.32	NITRATE	bMB	1.755	7.500	4.9412
9	11.11	CHLORATE	BMB	0.124	0.522	2.5903
		TOTAL:		20.41	133.63	166.45



Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/16/25 01:13**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	5.05	CHLORIDE	BMB	0.005	0.025	n.a.
2	6.28	NITRITE	BMB	0.004	0.014	n.a.
4	8.77	BROMIDE	bMB	0.002	0.009	n.a.
5	9.64	SULFATE	BMb	0.019	0.062	n.a.
6	10.53	NITRATE	bMB	0.018	0.050	0.0278
		TOTAL:		0.05	0.16	0.03



ANION SS WetChem Prep Benchsheet

Batch: WG2468113

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834372	WG2466997	BJM688	PREPREPBAL3	12-MAR-25
L1834645	WG2466977	BJM688	PREPREPBAL4	12-MAR-25

Analyst: GEB3921 **Analyst 2:** NA___ **Analyst 3:** NA___ **Prep Start Date/Time:** 03/13/25 09:51-14:44 **Prep End Date/Time:** 03/13/25 17:56 **SOP:** 0155
Method: 9056 **Balance ID:** WETBAL2 **CentrifugeTube Lot#:** E2402376 **Eluent ID:** 25B2877 **Syringe Lot#:** 241125 **0.45 Filter Lot#:** 00360227-6
0.2 Filter Lot#: NA **1mL Auto Pipette SN:** SU31260 **1mL Auto Pipette Tip Lot#:** 25010027 **5mL Pipette Lot#:** NA **10mL Pipette Lot#:** NA
Dilution Tube Lot#: LV24080204-5030-MI **Chloride Strip Lot#:** A5009A **Sulfate Strip Lot#:** 012P421-DD **Phosphate Strip Lot#:** NA **NO3/NO2 Strip Lot#:** 431303
IC Cap/Vial Lot#: 3250-18348/LV24071515-5031-MI **Tongue Depressor:** P00390 **pH strip Lot #:** 10BDH47241

Anion Standard (LCS/LCSD): 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26 **Chlorate (LCS/LCSD):** 25C12882 Amt. Used: 1.25 mL Exp. Date:04/12/25
Phosphate Standard (LCS/LCSD): 24J15806 Amt. Used: 2 mL Exp. Date:04/15/25 **Anion Standard (MS/MSD):** 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26
Chlorate (MS/MSD): 25C12882 Amt. Used: 1.25 mL Exp. Date:04/12/25 **Phosphate Standard (MS/MSD):** 24J15806 Amt. Used: 2 mL Exp. Date:04/15/25
Sand: 24J24235 Amt. Used: 5 g Exp. Date:04/24/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Dilution Factor	Prep Factor	Prep Ratio	Chloride Strip Dil.	NO2/NO3 Strip Dil.	Sulfate Strip Dil.	Sample pH	pH Dilution	Review Analyst	Review Date
BLANK	5	50	1	10	1	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
LCS	5	50	1	10	1	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
DUP(L1834372-01)	5.19	50	1	9.63	1	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
DUP(L1832871-01)	4.98	50	1	10.04	1	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
MS(L1832871-01)	4.95	50	1	10.1	1.01	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
MSD(L1832871-01)	4.98	50	1	10.04	1	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
1. L1832871-01	4.97	50	1	10.06	1.01	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
2. L1832871-02	4.96	50	1	10.08	1.01	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
3. L1832871-03	5.01	50	1	9.98	1	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
4. L1832871-04	5.01	50	1	9.98	1	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
5. L1832871-05	5.04	50	1	9.92	1	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
6. L1832871-06	5.00	50	1	10	1	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
7. L1832871-07	4.99	50	1	10.02	1	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
8. L1832871-08	5.05	50	1	9.9	1	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
9. L1832871-09	5.01	50	1	9.98	1	1x	1x	1x	7	1x	GEB3921	03/13/25 17:57:04
10. L1834372-01	5.09	50	1	9.82	1	1x	1x	10x	6	1x	GEB3921	03/13/25 17:57:04
11. L1834645-01	5.11	50	1	9.78	1	1x	1x	1x	6	1x	GEB3921	03/13/25 17:57:04
12. L1834645-02	4.91	50	1	10.18	1.02	1x	1x	1x	6	1x	GEB3921	03/13/25 17:57:04
13. L1834645-03	4.89	50	1	10.22	1.02	1x	1x	1x	6	1x	GEB3921	03/13/25 17:57:04
14. L1834645-04	5.15	50	1	9.71	1	1x	1x	1x	6	1x	GEB3921	03/13/25 17:57:04
15. L1834645-05	4.85	50	1	10.31	1.03	1x	1x	1x	6	1x	GEB3921	03/13/25 17:57:04
16. L1834645-06	5.02	50	1	9.96	1	1x	1x	1x	6	1x	GEB3921	03/13/25 17:57:04
17. L1834645-07	5.06	50	1	9.88	1	1x	1x	1x	6	1x	GEB3921	03/13/25 17:57:04
18. L1834645-08	4.82	50	1	10.37	1.04	1x	1x	1x	6	1x	GEB3921	03/13/25 17:57:04
19. L1834645-09	4.93	50	1	10.14	1.01	1x	1x	1x	6	1x	GEB3921	03/13/25 17:57:04
20. L1834645-10	5.12	50	1	9.77	1	1x	1x	1x	6	1x	GEB3921	03/13/25 17:57:04

Comments:
IC-8 031325 ELUENT: 25B27877 ALSO RAN ON IC-10 031325 ELUENT: 241291398014 FOR NO3- ONLY

Reviewed By:GEB3921 on 03/13/25 17:57:04

ANION SS WetChem Prep Benchsheet

Batch: WG2468135

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1829230	WG2466939	BJM688	PREPREPBAL4	12-MAR-25
L1834645	WG2466977	BJM688	PREPREPBAL4	03/14/25 13:48:54
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25

Analyst: CDV4241 **Analyst 2:** NA___ **Analyst 3:** NA___ **Prep Start Date/Time:** 03/15/25 10:12-10:15 **Prep End Date/Time:** 03/15/25 15:43 **SOP:** 0155
Method: 9056 **Balance ID:** IC BAL 1 **CentrifugeTube Lot#:** E2402376 **Eluent ID:** 240991838015 **Syringe Lot#:** 241125 **0.45 Filter Lot#:** 0000376291
0.2 Filter Lot#: N/A **1mL Auto Pipette SN:** VU22950 **1mL Auto Pipette Tip Lot#:** 25040320 **5mL Pipette Lot#:** N/A **10mL Pipette Lot#:** N/A
Dilution Tube Lot#: N/A **Chloride Strip Lot#:** 5052A **Sulfate Strip Lot#:** 052J521-DD **Phosphate Strip Lot#:** N/A **NO3/NO2 Strip Lot#:** 431303
IC Cap/Vial Lot#: 3250-18348 / LV24071515-5031-IM **Tongue Depressor:** N/A **pH strip Lot #:** 10BDH2221

Anion Standard (LCS/LCSD): 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26 **Chlorate (LCS/LCSD):** 25C12882 Amt. Used: 0.25 mL Exp. Date:04/12/25
Anion Standard (MS/MSD): 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26 **Chlorate (MS/MSD):** 25C12882 Amt. Used: 0.25 mL Exp. Date:04/12/25
Sand: 24J24235 Amt. Used: 5 g Exp. Date:04/24/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Dilution Factor	Prep Factor	Prep Ratio	Chloride Strip Dil.	NO2/NO3 Strip Dil.	Sulfate Strip Dil.	Sample pH	pH Dilution	Review Analyst	Review Date
BLANK	5	50	1	10	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
LCS	5	50	1	10	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
DUP(L1829230-04)	4.92	50	1	10.16	1.02	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
DUP(L1834645-11)	5.15	50	1	9.71	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
MS(L1829230-04)	4.90	50	1	10.2	1.02	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
MSD(L1829230-04)	4.88	50	1	10.25	1.03	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
1. L1829230-01	4.95	50	1	10.1	1.01	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
2. L1829230-02	4.94	50	1	10.12	1.01	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
3. L1829230-03	4.88	50	1	10.25	1.03	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
4. L1829230-04	4.92	50	1	10.16	1.02	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
5. L1829230-05	4.99	50	1	10.02	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
6. L1829230-21	5.15	50	1	9.71	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
7. L1829230-22	5.16	50	1	9.69	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
8. L1829230-23	5.12	50	1	9.77	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
9. L1829230-24	5.14	50	1	9.73	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
10. L1829230-25	4.82	50	1	10.37	1.04	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
11. L1834645-11	5.05	50	1	9.9	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
12. L1834664-01	4.98	50	1	10.04	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
13. L1834664-02	5.02	50	1	9.96	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
14. L1834664-03	5.09	50	1	9.82	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
15. L1834664-04	4.97	50	1	10.06	1.01	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
16. L1834664-05	5.11	50	1	9.78	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
17. L1834664-06	5.09	50	1	9.82	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
18. L1834664-07	5.03	50	1	9.94	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
19. L1834664-08	5	50	1	10	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
20. L1834664-09	5.06	50	1	9.88	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24

Comments:
IC-11 031525 Run. ICV-25C15268. RL- 25C15269. Eluent: 240991838015.

Reviewed By:MDM3917 on 03/16/25 03:26:24

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Coef1	First Order Coefficient.
Coef2	Second Order Coefficient.
Corr.	Correlation Coefficient.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Incpt	Intercept.
Mass	Mass of parameter.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RSD	Relative Standard Deviation.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Wavelength	Wavelength of parameter.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

GLOSSARY OF TERMS

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Haley & Aldrich-Phoenix, AZ

400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Billing Information:
Attn: Accounts Payable
70 Blanchard Rd., Ste. 204
Burlington, MA 01803-5100

Pres Chk

Report to:
Samantha Kaney 602-760-2420

Email To: **skaney@haleyaldrich.com**

Project Description:

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
0213103-000

Lab Project #
HALALDPAZ-EVERGY

Collected by (print):
S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace
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MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
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L1834645

E124

Acctnum: **HALALDPAZ**
Template:**T269254**
Prelogin: **P1135616**
PM: **288 - Daphne Richards**
PB: BF 2/27/25
Shipped Via: **FedEX Standard**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CR6,SULFATE,TS 4ozClr-NoPres	CR6ICFFP 50mlTube/plungerPres	Diss Metals, CR6LL 250mlHDPE-NoPres	Metals 2ozClr-NoPres Mercury 7471B Subout	SULFATE 125mlHDPE-NoPres	Total Metals 250mlHDPE-HNO3	Ra-226, Ra-228 **	% moisture	Remarks	Sample # (lab only)
Montrose_School_Ditch_I_So	Comp	SS	0-1	3/10/25	1050	3	X			X			X	X		-01
Montrose_School_Drains_I_So	Comp	SS	0-1	3/10/25	1120	3	X			X			X	X		-02
650_851_I_So	Comp	SS	0-1	3/10/25	1155	3	X			X			X	X		-03
600_I_I_So	Comp	SS	0-1	3/10/25	1235	3	X			X			X	X		-04
250_651_I_So	Comp	SS	0-1	3/10/25	1310	3	X			X			X	X		-05
Davis_School_Ditch_I_So	Comp	SS	0-1	3/10/25	1350	3	X			X			X	X		-06
Davis_School_Drains_I_So	Comp	SS	0-1	3/10/25	1415	3	X			X			X	X		-07
Davis_School_Front_Playground_I_So	Comp	SS	0-1	3/10/25	1445	3	X			X			X	X		-08
Davis_School_W_playground_I_So	Comp	SS	0-1	3/10/25	1510	3	X			X			X	X		-09
Davis_School_Track_I_So	Comp	SS	0-1	3/10/25	1535	3	X			X			X	X		-10

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:CR6LL has a 24hr hold time # SW7196A and EPA 7199
****EPA 903/904 and HASL 300 6a01**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4439 2438 8572

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	3/10/25	1800	FedEx	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.4 °C Bottles Received: 55
				2.4+0.4=2.8
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-11-25 Time: 0900
			Ei Rant 17	

If preservation required by Login: Date/Time
<500 CPM

Hold: Condition: NCF / OK

Company Name/Address:
Haley & Aldrich-Phoenix, AZ

400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Billing Information:
Attn: Accounts Payable
70 Blanchard Rd., Ste. 204
Burlington, MA 01803-5100

Pres Chk

Report to:
Samantha Kaney 602-760-2420

Email To: **skaney@haleyaldrich.com**

Project Description:

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # 0213103-002

Lab Project # **HALALDPAZ-EVERGY**

Collected by (print): S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CR6,SULFATE,TS 4ozClr-NoPres SW846-7196A-0526	CR6ICFFP 50mlTube/plungerPres	Diss Metals, CR6LL 250mlHDPE-NoPres	Metals 2ozClr-NoPres Mercury 7471B SW6010B	SULFATE 125mlHDPE-NoPres	Total Metals Metals 250mlHDPE-HNO3	Rad-226, Rad-228 **	% Moisture			Remarks	Sample # (lab only)
Davis-School-Dup-So	Comp	SS	0-1	3/10/25	1700	2	X			X			X	X				-11
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								

Chain of Custody Page 2 of 2

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SDG # L1834645

Table #

Acctnum: **HALALDPAZ**

Template: **T269254**

Prelogin: **P1135616**

PM: **288 - Daphne Richards**

PB: BF 2/27/25

Shipped Via: **FedEX Standard**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:CR6LL has a 24hr hold time *SW 7196A and EPA 7199
no rush for rad **EPA 903/904 and HASL 300 Ga Φ1

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4439 2438 8572

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	3/14/25	1800	FedEx
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: 2.9 °C Bottles Received: 33
7.4+0.4=2.8

Date: 3-11-25 Time: 0900

If preservation required by Login: Date/Time
<500 CPM

Hold:

Condition: NCF / OK

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
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Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Haley & Aldrich-Phoenix, AZ

400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Attn: Accounts Payable
70 Blanchard Rd., Ste. 204
Burlington, MA 01803-5100

Report to: **Samantha Kaney 602-760-2420**

Email To: **skaney@haleyaldrich.com**

Project Description:

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # 0213103-000

Lab Project # **HALALDPAZ-EVERGY**

Collected by (print): S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CR6,SULFATE,TS 4ozClr-NoPres	CR6ICFFP 50mlTube/plungerPres	Diss Metals, CR6LL 250mlHDPE-NoPres	Metals 2ozClr-NoPres Mercury 14718 Subcon	SULFATE 125mlHDPE-NoPres	Total Metals 250mlHDPE-HNO3	Ra-226, Ra-228 **	% moisture	Remarks	Sample # (lab only)
Montrose_School_Ditch_I_So	Comp	SS	0-1	3/10/25	1050	3	X			X			X	X		-01
Montrose_School_Drains_I_So	Comp	SS	0-1	3/10/25	1120	3	X			X			X	X		-02
650_851_I_So	Comp	SS	0-1	3/10/25	1155	3	X			X			X	X		-03
600_I_I_So	Comp	SS	0-1	3/10/25	1235	3	X			X			X	X		-04
250_651_I_So	Comp	SS	0-1	3/10/25	1310	3	X			X			X	X		-05
Davis_School_Ditch_I_So	Comp	SS	0-1	3/10/25	1350	3	X			X			X	X		-06
Davis_School_Drains_I_So	Comp	SS	0-1	3/10/25	1415	3	X			X			X	X		-07
Davis_School_Front_Playground_I_So	Comp	SS	0-1	3/10/25	1445	3	X			X			X	X		-08
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Davis_School_Track_I_So	Comp	SS	0-1	3/10/25	1535	3	X			X			X	X		-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:CR6LL has a 24hr hold time ✓ SW7196A and EPA 7199
** EPA 903/904 and HASL 300 Ra01

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4439 2438 8572

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	3/10/25	1800	FedEx
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 2.4 °C Bottles Received: 35
2.4+0.4=2.8

Date: 3-11-25 Time: 0900

If preservation required by Login: Date/Time
<500 CPM

Hold: Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

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L1834655
E124

Acctnum: HALALDPAZ
Template: T269254
Prelogin: P1135616
PM: 288 - Daphne Richards
PB: BF 2/27/25
Shipped Via: FedEX Standard

Haley & Aldrich-Phoenix, AZ

400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Attn: Accounts Payable
70 Blanchard Rd., Ste. 204
Burlington, MA 01803-5100

Report to: **Samantha Kaney 602-760-2420**

Email To: **skaney@haleyaldrich.com**

Project Description:

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # 0213103-002

Lab Project # **HALALDPAZ-EVERGY**

Collected by (print): S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*CR6,SULFATE,TS 4ozClr-NoPres SW846-7196A-0526	CR6ICFFP 50mlTube/plungerPres	Diss Metals, CR6LL 250mlHDPE-NoPres	Metals 2ozClr-NoPres Mercury 7471B SW6020B	SULFATE 125mlHDPE-NoPres	Total Metals 250mlHDPE-HNO3	**Rad-226, Rad-228	% Moisture	Remarks	Sample # (lab only)
Davis-School-Dup-So	Comp	SS	0-1	3/10/25	1700	2	X			X			X	X		-11
		SS				2	X			X						
		SS				2	X			X						
		SS				2	X			X						
		SS				2	X			X						
		SS				2	X			X						
		SS				2	X			X						
		SS				2	X			X						
		SS				2	X			X						
		SS				2	X			X						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:CR6LL has a 24hr hold time *SW 7196A and EPA 7199
no rush for rad **EPA 903/904 and HASL 300 Ga Φ

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4439 2438 8572

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	3/14/25	1800	FedEx
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Li Kann 17

Trip Blank Received: Yes / (No) HCL / MeoH TBR

Temp 2.9 °C Bottles Received: 33
2.4+0.4=2.8

Date: 3-11-25 Time: 0900

If preservation required by Login: Date/Time
<500 CPM

Hold: Condition: NCF / OK

Sample Receipt Checklist

COC Seal Present/Intact:	NP	✓Y N
COC Signed/Accurate:		✓Y N
Bottles arrive intact:		✓Y N
Correct bottles used:		✓Y N
Sufficient volume sent:		✓Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		✓Y N
RAD Screen <0.5 mR/hr:		✓Y N

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MT JULIET, TN

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SDG # L1834655

Table #

Acctnum: **HALALDPAZ**
Template: **T269254**
Prelogin: **P1135616**
PM: **288 - Daphne Richards**
PB: BF 2/27/25
Shipped Via: **FedEX Standard**

ANALYTICAL REPORT

April 02, 2025

Revised Report

1 Cp
2 Tc
3 Ss
4 Cn
5 Su
6 Gl
7 Al
8 Sc

Haley & Aldrich-Phoenix, AZ

Sample Delivery Group:	L1834664
Samples Received:	03/11/2025
Project Number:	0213103.000
Description:	

Report To: Samantha Kaney
400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Entire Report Reviewed By: Daphne R Richards

Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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BLANK(R4186391-1) WG2468048 03/13/25 17:34 ICP13 126
LCS(R4186271-2) WG2467988 03/13/25 20:41 ICP14 127
LCS(R4186391-2) WG2468048 03/13/25 17:36 ICP13 128
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L1834664-06 03/14/25 13:15 CVAA10 319

L1834664-07 03/14/25 13:18 CVAA10 320

L1834664-08 03/14/25 13:29 CVAA10 321

L1834664-09 03/14/25 13:31 CVAA10 322

L1834664-10 03/14/25 13:34 CVAA10 323

L1834664-11 03/14/25 20:37 CVAA10 324

BLANK(R4186568-1) WG2467835 03/14/25 12:38 CVAA10 325

BLANK(R4186734-1) WG2468220 03/14/25 16:54 CVAA10 326

LCS(R4186568-2) WG2467835 03/14/25 12:41 CVAA10 327

LCS(R4186734-2) WG2468220 03/14/25 16:57 CVAA10 328

MS(R4186568-4) WG2467835 03/14/25 12:54 CVAA10 329

MS(R4186734-4) WG2468220 03/14/25 17:05 CVAA10 330

MSD(R4186568-5) WG2467835 03/14/25 12:57 CVAA10 331

MSD(R4186734-5) WG2468220 03/14/25 17:07 CVAA10 332

SD(R4186568-3) WG2467835 03/14/25 12:46 CVAA10 333

SD(R4186734-3) WG2468220 03/14/25 17:02 CVAA10 334

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CVAA10 031425CVAA10 S 335

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L1834664-05 03/15/25 23:32 IC-11 435

L1834664-06 03/15/25 23:48 IC-11 436

L1834664-07 03/16/25 00:05 IC-11 437

L1834664-08 03/16/25 00:22 IC-11 438

L1834664-09 03/16/25 00:39 IC-11 439

L1834664-10 03/17/25 14:00 IC-10 440

L1834664-11 03/17/25 14:16 IC-10 441

BLANK(R4187262-1) WG2468135 03/15/25 16:27 IC-11 442

BLANK(R4187569-1) WG2469046 03/17/25 13:13 IC-10 443

LCS(R4187262-2) WG2468135 03/15/25 16:44 IC-11 444

LCS(R4187569-2) WG2469046 03/17/25 13:28 IC-10 445

DUP(R4187262-3) WG2468135 03/15/25 18:42 IC-11 446

DUP(R4187262-6) WG2468135 03/15/25 22:07 IC-11 447

DUP(R4187569-4) WG2469046 03/17/25 16:23 IC-10 448

DUP(R4187569-5) WG2469046 03/17/25 18:29 IC-10 449

MS(R4187262-4) WG2468135 03/15/25 18:59 IC-11 450

MS(R4187569-6) WG2469046 03/17/25 18:45 IC-10 451

MSD(R4187262-5) WG2468135 03/15/25 19:15 IC-11 452

MSD(R4187569-7) WG2469046 03/17/25 19:01 IC-10 453

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MONTROSE_SCHOOL_DITCH_S_SO L1834664-01 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 10:50 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:06	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468135	1	03/15/25 10:15	03/15/25 22:24	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2467835	1	03/13/25 13:14	03/14/25 13:02	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467988	1	03/13/25 10:25	03/13/25 20:56	DJS	Mt. Juliet, TN

MONTROSE_SCHOOL_DRAINS_S_SO L1834664-02 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 11:20 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:07	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468135	1	03/15/25 10:15	03/15/25 22:41	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2467835	1	03/13/25 13:14	03/14/25 13:05	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467988	1	03/13/25 10:25	03/13/25 20:59	DJS	Mt. Juliet, TN

650_851_S_SO L1834664-03 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 11:55 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:07	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468135	1	03/15/25 10:15	03/15/25 22:58	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2467835	1	03/13/25 13:14	03/14/25 13:07	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467988	1	03/13/25 10:25	03/13/25 21:02	DJS	Mt. Juliet, TN

601_T_S_SO L1834664-04 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 12:35 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:08	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468135	1.01	03/15/25 10:15	03/15/25 23:15	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2467835	1	03/13/25 13:14	03/14/25 13:10	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467988	1	03/13/25 10:25	03/13/25 21:10	DJS	Mt. Juliet, TN

250_651_S_SO L1834664-05 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 13:10 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:08	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468135	1	03/15/25 10:15	03/15/25 23:32	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2467835	1	03/13/25 13:14	03/14/25 13:13	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2468048	1	03/13/25 08:26	03/13/25 17:53	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_DITCH_S_SO L1834664-06 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 13:50 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:08	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468135	1	03/15/25 10:15	03/15/25 23:48	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2467835	1	03/13/25 13:14	03/14/25 13:15	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2468048	1	03/13/25 08:26	03/13/25 17:56	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_DRAINS_S_SO L1834664-07 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 14:15 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:10	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468135	1	03/15/25 10:15	03/16/25 00:05	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2467835	1	03/13/25 13:14	03/14/25 13:18	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2468048	1	03/13/25 08:26	03/13/25 17:59	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO L1834664-08 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 14:45 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:10	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468135	1	03/15/25 10:15	03/16/25 00:22	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2467835	1	03/13/25 13:14	03/14/25 13:29	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2468048	1	03/13/25 08:26	03/13/25 18:08	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_WPLAYGROUND_S_SO L1834664-09 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 15:10 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467846	1	03/13/25 22:00	03/14/25 22:11	ARV	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468135	1	03/15/25 10:15	03/16/25 00:39	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2467835	1	03/13/25 13:14	03/14/25 13:31	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2468048	1	03/13/25 08:26	03/13/25 18:11	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_TRACK_S_SO L1834664-10 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 15:35 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:46	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2469046	1	03/16/25 19:57	03/17/25 14:00	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2467835	1	03/13/25 13:14	03/14/25 13:34	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2468048	1	03/13/25 08:26	03/13/25 18:14	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_DUP_S_SO L1834664-11 Solid

Collected by: S. Kaney
Collected date/time: 03/10/25 17:05
Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467878	1	03/13/25 07:43	03/13/25 07:53	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:46	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2469046	1	03/16/25 19:57	03/17/25 14:16	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2468220	1	03/13/25 13:19	03/14/25 20:37	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2467988	1	03/13/25 10:25	03/13/25 21:13	DJS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

Report Revision History

Level II Report - Version 1: 03/19/25 14:46
Level IV Report - Version 2: 03/19/25 15:37
Level IV Report - Version 3: 03/19/25 15:46
Level II Report - Version 4: 04/02/25 16:19

Project Narrative

Selenium added

2540 G-2011 Total Solids

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1834664-01	**SDG:**	L1834664
Client Sample ID:	MONTROSE_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	04	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	11.898 g
Total Solids (%):	77.6	**Final Wt/Vol:**	9.524 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	77.6	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1834664-02	**SDG:**	L1834664
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	05	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	10.849 g
Total Solids (%):	75.5	**Final Wt/Vol:**	8.514 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	75.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834664-03	**SDG:**	L1834664
Client Sample ID:	650_851_S_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	06	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.508 g
Total Solids (%):	72.0	**Final Wt/Vol:**	7.212 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	72.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834664-04	**SDG:**	L1834664
Client Sample ID:	601_T_S_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	07	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	10.684 g
Total Solids (%):	69.9	**Final Wt/Vol:**	7.857 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	69.9	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834664-05	**SDG:**	L1834664
Client Sample ID:	250_651_S_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	08	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	12.3 g
Total Solids (%):	61.8	**Final Wt/Vol:**	8.101 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	61.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1834664-06	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	09	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	12.161 g
Total Solids (%):	67.8	**Final Wt/Vol:**	8.661 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	67.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1834664-07	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	10	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	10.85 g
Total Solids (%):	69.1	**Final Wt/Vol:**	7.895 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	69.1	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAY GROUND_S_SO

Lab Sample ID:	L1834664-08	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	11	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	10.809 g
Total Solids (%):	68.8	**Final Wt/Vol:**	7.84 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	68.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_S_SO

Lab Sample ID:	L1834664-09	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	12	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	14.926 g
Total Solids (%):	67.1	**Final Wt/Vol:**	10.449 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	67.1	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_S_SO

Lab Sample ID:	L1834664-10	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_TRACK_S_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	13	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	12.298 g
Total Solids (%):	67.3	**Final Wt/Vol:**	8.702 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	67.3	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_S_SO

Lab Sample ID:	L1834664-11	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DUP_S_SO	**Collected Date/Time:**	03/10/25 17:05
Lab File ID:	04	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:43
Analytical Batch:	WG2467878	**Analysis Date/Time:**	03/13/25 07:53
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	14.133 g
Total Solids (%):	72.3	**Final Wt/Vol:**	10.57 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	72.3	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186050-1	**SDG:**	L1834664
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:43
Analytical Batch:	WG2467878	**Analysis Date/Time:**	03/13/25 07:53
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.282 g
Total Solids (%):		**Final Wt/Vol:**	1.282 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.000	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186061-1	**SDG:**	L1834664
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:03
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.295 g
Total Solids (%):		**Final Wt/Vol:**	1.295 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.000	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186050-2	**SDG:**	L1834664
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	03	**Received Date/Time:**	_____
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:43
Analytical Batch:	WG2467878	**Analysis Date/Time:**	03/13/25 07:53
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	11.29 g
Total Solids (%):	_____	**Final Wt/Vol:**	6.292 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186061-2	**SDG:**	L1834664
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:03
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.304 g
Total Solids (%):		**Final Wt/Vol:**	6.305 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186050-3	**SDG:**	L1834664
Client Sample ID:	DUP	**Collected Date/Time:**	02/13/25 14:45
Lab File ID:	02	**Received Date/Time:**	03/11/25 10:30
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:43
Analytical Batch:	WG2467878	**Analysis Date/Time:**	03/13/25 07:53
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	14.664 g
Total Solids (%):	83.6	**Final Wt/Vol:**	12.578 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	84.4	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186061-3	**SDG:**	L1834664
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	02	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:03
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	13.61 g
Total Solids (%):	75.5	**Final Wt/Vol:**	10.814 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	77.3	

SDG:	L1834664	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2467878

Sample ID:	**BLANK Result**	**BLANK Qual**
File ID:	01	
Analyte	%	
TOTAL SOLIDS	0.000	

SDG:	L1834664	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2467876

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.000	

DUP Sample / File ID:	R4186050-3 / 02	**SDG:**	L1834664
OS Sample / File ID:	L1834754-02 / 06	**Analytical Batch:**	WG2467878
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	83.6	84.4	0.935	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4186061-3 / 02	**SDG:**	L1834664
OS Sample / File ID:	L1834664-02 / 05	**Analytical Batch:**	WG2467876
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	75.5	77.3	2.29	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1834664-11

SAMPLE NO.:
R4186050-2

LCS Sample / File ID:	R4186050-2 / 03	**SDG:**	L1834664
LCSD Sample / File ID:		**Analytical Batch:**	WG2467878
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1834664-01,02,03,04,05,06,07,08,09,10

SAMPLE NO.: R4186061-2

LCS Sample / File ID:	R4186061-2 / 03	**SDG:**	L1834664
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467876
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1834664-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 2540 G-2011

Matrix: Solid **Prep Method:** SM 2540 G

Analyte	CAS	Wavelength	Mass	MDL	RDL
				%	%
Total Solids	TSOLIDS				

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL3	**Calibration Start Date:**	_____
Analytical Run:	WG2467878	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4186050-1	01	03/13/25 07:53	1	WG2467878
DUP	R4186050-3	02	03/13/25 07:53	1	WG2467878
LCS	R4186050-2	03	03/13/25 07:53	1	WG2467878
OS	L1834754-02	06	03/13/25 07:53		
DAVIS_SCHOOL_DUP_S_SO	L1834664-11	04	03/13/25 07:53	1	WG2467878

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL3	**Calibration Start Date:**	
Analytical Run:	WG2467876	**Calibration End Date:**	

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4186061-1	01	03/13/25 08:15	1	WG2467876
DUP	R4186061-3	02	03/13/25 08:15	1	WG2467876
LCS	R4186061-2	03	03/13/25 08:15	1	WG2467876
601_T_S_SO	L1834664-04	07	03/13/25 08:15	1	WG2467876
DAVIS_SCHOOL_DITCH_S_SO	L1834664-06	09	03/13/25 08:15	1	WG2467876
250_651_S_SO	L1834664-05	08	03/13/25 08:15	1	WG2467876
DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	L1834664-08	11	03/13/25 08:15	1	WG2467876
DAVIS_SCHOOL_DRAINS_S_SO	L1834664-07	10	03/13/25 08:15	1	WG2467876
MONTROSE_SCHOOL_DRAINS_S_SO	L1834664-02	05	03/13/25 08:15	1	WG2467876
DAVIS_SCHOOL_WPLAYGROUND_S_SO	L1834664-09	12	03/13/25 08:15	1	WG2467876
DAVIS_SCHOOL_TRACK_S_SO	L1834664-10	13	03/13/25 08:15	1	WG2467876
650_851_S_SO	L1834664-03	06	03/13/25 08:15	1	WG2467876
MONTROSE_SCHOOL_DITCH_S_SO	L1834664-01	04	03/13/25 08:15	1	WG2467876

Total Solids WetChem Prep Benchsheet

Batch: WG2467876

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25

Analyst: CMB3616 **Prep Start Date/Time:** 03/13/25 08:03-08:04 **Prep End Date/Time:** 03/13/25 14:48 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL3 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				E1	1.295	1.295	1.295	1.295	0	0	100						JAV213	03/20/25 13:37:51
LCS				E2	1.303	11.304	6.307	6.305	0.002	50.015	49.985	100.03	99.97				JAV213	03/20/25 13:37:51
DUP(L1834664-02)				E3	1.300	13.610	10.805	10.814	0.009	77.2868	22.7132			2.29	7.41	PP2 0312	JAV213	03/20/25 13:37:51
1. L1834664-01	SS	MO	03/10/25 10:50	E4	1.300	11.898	9.520	9.524	0.004	77.5995	22.4005					PP2 0312	JAV213	03/20/25 13:37:51
2. L1834664-02	SS	MO	03/10/25 11:20	E5	1.303	10.849	8.513	8.514	0.001	75.5395	24.4605						JAV213	03/20/25 13:37:51
3. L1834664-03	SS	MO	03/10/25 11:55	E6	1.307	9.508	7.211	7.212	0.001	72.0034	27.9966					PP2 0312	JAV213	03/20/25 13:37:51
4. L1834664-04	SS	MO	03/10/25 12:35	E7	1.304	10.684	7.853	7.857	0.004	69.8614	30.1386					PP2 0312	JAV213	03/20/25 13:37:51
5. L1834664-05	SS	MO	03/10/25 13:10	E8	1.302	12.300	8.102	8.101	0.001	61.8203	38.1797					PP2 0312	JAV213	03/20/25 13:37:51
6. L1834664-06	SS	MO	03/10/25 13:50	E9	1.303	12.161	8.661	8.661	0	67.7657	32.2343					PP2 0312	JAV213	03/20/25 13:37:51
7. L1834664-07	SS	MO	03/10/25 14:15	E10	1.290	10.850	7.891	7.895	0.004	69.09	30.91					PP2 0312	JAV213	03/20/25 13:37:51
8. L1834664-08	SS	MO	03/10/25 14:45	E11	1.301	10.809	7.840	7.840	0	68.7737	31.2263					PP2 0312	JAV213	03/20/25 13:37:51
9. L1834664-09	SS	MO	03/10/25 15:10	E12	1.304	14.926	10.449	10.449	0	67.134	32.866					PP2 0312	JAV213	03/20/25 13:37:51
10. L1834664-10	SS	MO	03/10/25 15:35	E13	1.301	12.298	8.702	8.702	0	67.3002	32.6998					PP2 0312	JAV213	03/20/25 13:37:51
11. L1838014-01	SS	MO	03/10/25 10:50	E4	1.300	11.898	9.520	9.524	0.004	77.5995	22.4005					PP2 0312	JAV213	03/20/25 13:37:51
12. L1838014-02	SS	MO	03/10/25 11:20	E5	1.303	10.849	8.513	8.514	0.001	75.5395	24.4605						JAV213	03/20/25 13:37:51
13. L1838014-03	SS	MO	03/10/25 11:55	E6	1.307	9.508	7.211	7.212	0.001	72.0034	27.9966					PP2 0312	JAV213	03/20/25 13:37:51
14. L1838014-04	SS	MO	03/10/25 12:35	E7	1.304	10.684	7.853	7.857	0.004	69.8614	30.1386					PP2 0312	JAV213	03/20/25 13:37:51
15. L1838014-05	SS	MO	03/10/25 13:10	E8	1.302	12.300	8.102	8.101	0.001	61.8203	38.1797					PP2 0312	JAV213	03/20/25 13:37:51
16. L1838014-06	SS	MO	03/10/25 13:50	E9	1.303	12.161	8.661	8.661	0	67.7657	32.2343					PP2 0312	JAV213	03/20/25 13:37:51
17. L1838014-07	SS	MO	03/10/25 14:15	E10	1.290	10.850	7.891	7.895	0.004	69.09	30.91					PP2 0312	JAV213	03/20/25 13:37:51
18. L1838014-08	SS	MO	03/10/25 14:45	E11	1.301	10.809	7.840	7.840	0	68.7737	31.2263					PP2 0312	JAV213	03/20/25 13:37:51
19. L1838014-09	SS	MO	03/10/25 15:10	E12	1.304	14.926	10.449	10.449	0	67.134	32.866					PP2 0312	JAV213	03/20/25 13:37:51
20. L1838014-10	SS	MO	03/10/25 15:35	E13	1.301	12.298	8.702	8.702	0	67.3002	32.6998					PP2 0312	JAV213	03/20/25 13:37:51

Comments:
L1838014-02 Time Added: 03/20/25 09:38:40
L1838014-05 Time Added: 03/20/25 09:38:40
L1838014-04 Time Added: 03/20/25 09:38:40
L1838014-03 Time Added: 03/20/25 09:38:40
L1838014-01 Time Added: 03/20/25 09:38:39
L1838014-09 Time Added: 03/20/25 09:38:40
L1838014-08 Time Added: 03/20/25 09:38:40
L1838014-07 Time Added: 03/20/25 09:38:40
L1838014-10 Time Added: 03/20/25 09:38:40
L1838014-06 Time Added: 03/20/25 09:38:40

Reviewed By:JAV213 on 03/20/25 13:37:51

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/13/25 08:15:46	104	104	03/13/25 13:04:12	104	104	BLANK, LCS, DUP(L1834664-02), L1834664-01, L1838014-10, L1838014-09, L1838014-08, L1838014-07, L1838014-06, L1838014-05, L1838014-04, L1838014-03, L1838014-02, L1838014-01, L1834664-10, L1834664-09, L1834664-08, L1834664-07, L1834664-06, L1834664-05, L1834664-04, L1834664-03, L1834664-02
2	Oven-1hr	03/13/25 13:07:45	104	104	03/13/25 14:44:17	104	104	BLANK, LCS, DUP(L1834664-02), L1834664-01, L1834664-02, L1834664-03, L1834664-04, L1834664-05, L1834664-06, L1834664-07, L1834664-08, L1834664-09, L1834664-10, L1838014-01, L1838014-02, L1838014-03, L1838014-04, L1838014-05, L1838014-06, L1838014-07, L1838014-08, L1838014-09, L1838014-10

Total Solids WetChem Prep Benchsheet

Batch: WG2467878

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25
L1834754	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834756	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834758	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834759	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834760	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834761	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834780	WG2467815	CMW844	PREPREPBAL2	12-MAR-25

Analyst: CMB3616 **Prep Start Date/Time:** 03/13/25 07:43 **Prep End Date/Time:** 03/13/25 14:37 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL3 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				C1	1.282	1.282	1.282	1.282	0	0	100						JAV213	03/20/25 13:38:12
LCS				C2	1.290	11.290	6.292	6.292	0	50.02	49.98	100.04	99.96				JAV213	03/20/25 13:38:12
DUP(L1834754-02)				C3	1.279	14.664	12.575	12.578	0.003	84.4154	15.5846			0.93	4.92	Wed-6/PP20312	JAV213	03/20/25 13:38:12
1. L1834664-11	SS	MO	03/10/25 17:05	C4	1.275	14.133	10.566	10.570	0.004	72.2896	27.7104					PP20312	JAV213	03/20/25 13:38:12
2. L1834754-01	SS	AK	02/13/25 14:35	C5	1.281	13.969	13.645	13.645	0	97.4464	2.5536					Wed-6/PP20312	JAV213	03/20/25 13:38:12
3. L1834754-02	SS	AK	02/13/25 14:45	C6	1.286	15.116	12.853	12.852	0.001	83.6298	16.3702						JAV213	03/20/25 13:38:12
4. L1834754-03	SS	AK	03/07/25 12:52	C7	1.277	14.152	10.500	10.501	0.001	71.6427	28.3573					Wed-6/PP20312	JAV213	03/20/25 13:38:12
5. L1834756-01	SS	OR	03/07/25 16:35	C8	1.281	14.271	13.256	13.256	0	92.1863	7.8137					Wed-6/PP20312	JAV213	03/20/25 13:38:12
6. L1834758-01	SS	OR	03/07/25 16:25	C9	1.284	15.360	14.589	14.587	0.002	94.5084	5.4916					Wed-6/PP20312	JAV213	03/20/25 13:38:12
7. L1834759-01	SS	OR	03/07/25 16:15	C10	1.280	15.051	14.378	14.374	0.004	95.0839	4.9161					Wed-6/PP20312	JAV213	03/20/25 13:38:12
8. L1834760-01	SS	OR	03/07/25 16:55	C11	1.272	15.495	13.567	13.571	0.004	86.4726	13.5274					Wed-6/PP20312	JAV213	03/20/25 13:38:12
9. L1834761-01	SS	OR	03/07/25 16:40	C12	1.288	15.888	14.496	14.504	0.008	90.5205	9.4795					Wed-6/PP20312	JAV213	03/20/25 13:38:12
10. L1834780-01	SS	NY	03/08/25 09:20	C13	1.283	8.964	8.293	8.295	0.002	91.2902	8.7098					Wed-7/PP20313	JAV213	03/20/25 13:38:12
11. L1838014-11	SS	MO	03/10/25 17:05	C4	1.275	14.133	10.566	10.570	0.004	72.2896	27.7104					PP20312	JAV213	03/20/25 13:38:12

Comments:
L1838014-11 Time Added: 03/20/25 09:38:40

Reviewed By:JAV213 on 03/20/25 13:38:12

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/13/25 07:53:22	104	104	03/13/25 12:55:45	104	104	BLANK, LCS, DUP(L1834754-02), L1834664-11, L1838014-11, L1834780-01, L1834761-01, L1834760-01, L1834759-01, L1834758-01, L1834756-01, L1834754-03, L1834754-02, L1834754-01
2	Oven-1hr	03/13/25 13:00:10	104	104	03/13/25 14:32:50	104	104	BLANK, LCS, DUP(L1834754-02), L1834664-11, L1834754-01, L1834754-02, L1834754-03, L1834756-01, L1834758-01, L1834759-01, L1834760-01, L1834761-01, L1834780-01, L1838014-11

3060A/7196A Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1834664-01	**SDG:**	L1834664
Client Sample ID:	MONTROSE_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250314220641	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:06
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.5200 g
Total Solids (%):	77.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.968	2.58

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1834664-02	**SDG:**	L1834664
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250314220732	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:07
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.5333 g
Total Solids (%):	75.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.994	2.65

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
650_851_S_SO

Lab Sample ID:	L1834664-03	**SDG:**	L1834664
Client Sample ID:	650_851_S_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	20250314220750	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:07
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4958 g
Total Solids (%):	72.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.04	2.78

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834664-04	**SDG:**	L1834664
Client Sample ID:	601_T_S_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	20250314220808	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:08
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4929 g
Total Solids (%):	69.9	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.07	2.86

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
250_651_S_SO

Lab Sample ID:	L1834664-05	**SDG:**	L1834664
Client Sample ID:	250_651_S_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	20250314220842	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:08
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4947 g
Total Solids (%):	61.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.21	3.24

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1834664-06	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	20250314220859	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:08
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4865 g
Total Solids (%):	67.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.11	2.95

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1834664-07	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	20250314221011	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:10
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.5039 g
Total Solids (%):	69.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.09	2.89

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAY GROUND_S_SO

Lab Sample ID:	L1834664-08	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	20250314221044	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:10
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.5073 g
Total Solids (%):	68.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.09	2.91

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_S_SO

Lab Sample ID:	L1834664-09	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	20250314221125	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:11
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.4994 g
Total Solids (%):	67.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.12	2.98

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_S_SO

Lab Sample ID:	L1834664-10	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_TRACK_S_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	20250317124602	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:46
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4266 g
Total Solids (%):	67.3	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	1.65	J	1.12	2.97

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_S_SO

Lab Sample ID:	L1834664-11	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DUP_S_SO	**Collected Date/Time:**	03/10/25 17:05
Lab File ID:	20250317124640	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:46
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4561 g
Total Solids (%):	72.3	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.04	2.77

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-1	**SDG:**	L1834664
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250314215922	**Received Date/Time:**	_____
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 21:59
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5103 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-1	**SDG:**	L1834664
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250317124404	**Received Date/Time:**	_____
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:44
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4222 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	**CAS**	**Result**	**Qualifier**	**MDL**	**RDL**
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-2	**SDG:**	L1834664
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250314215931	**Received Date/Time:**	_____
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 21:59
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5200 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	26.3		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-2	**SDG:**	L1834664
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250317124412	**Received Date/Time:**	
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:44
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.4413 g
Total Solids (%):		**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	26.5		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-7	**SDG:**	L1834664
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250314220246	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:02
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4839 g
Total Solids (%):	78.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.957	2.55

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-8	**SDG:**	L1834664
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	20250314220316	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:03
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4839 g
Total Solids (%):	73.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.03	2.74

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-3	**SDG:**	L1834664
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	20250317124631	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:46
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4416 g
Total Solids (%):	67.3	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	1.56	J	1.12	2.97

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-8	**SDG:**	L1834664
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125556	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:55
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4605 g
Total Solids (%):	83.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.904	2.41

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-4	**SDG:**	L1834664
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250314220035	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:00
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4875 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6	1.07	2.86

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-5	**SDG:**	L1834664
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250314220107	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:01
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5298 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6	1.07	2.86

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-5	**SDG:**	L1834664
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125104	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:51
Dilution Factor:	50	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4358 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	304	J6	46.6	124

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-6	**SDG:**	L1834664
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125114	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:51
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4279 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6	0.931	2.48

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-6	**SDG:**	L1834664
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250314220119	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:01
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5128 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6	1.07	2.86

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-7	**SDG:**	L1834664
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125154	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:51
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4128 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6	0.931	2.48

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186749-3	**SDG:**	L1834664
Client Sample ID:	PS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250314220020	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/13/25 22:00
Analytical Batch:	WG2467846	**Analysis Date/Time:**	03/14/25 22:00
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4948 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	U	O1	1.07	2.86

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-4	**SDG:**	L1834664
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125050	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:50
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4553 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	1.77	J O1	0.931	2.48

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846
Concentration Units:	mg/L		

	ICV				CCV				CCV			
Sample ID:		DR6000-3031425215903				DR6000-3031425220206				DR6000-3031425220417		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	19.80	20.08398	101		19.80	19.80669	100		19.80	19.72746	99.60	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846
Concentration Units:	mg/L		

		CCV				CCV				CCV			
Sample ID:		DR6000-3031425220601				DR6000-3031425220818				DR6000-3031425221107			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	19.80	19.68785	99.40		19.80	19.68785	99.40		19.80	19.60862	99	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846
Concentration Units:	mg/L		

CCV

Sample ID: DR6000-3031425221143

Analyte	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	19.80	19.60862	99	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844
Concentration Units:	mg/L		

		ICV				CCV				CCV			
Sample ID:		DR6000-3031725124355				DR6000-3031725124813				DR6000-3031725125016			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20.50	21.03798	103		20.50	20.99705	102		20.50	20.99705	102	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844
Concentration Units:	mg/L		

		CCV				CCV				CCV			
Sample ID:		DR6000-3031725125243				DR6000-3031725125444				DR6000-3031725125714			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20.50	20.87426	102		20.50	20.95612	102		20.50	20.87426	102	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250314215922		20250314220215		20250314220427		20250314220610	
Analyte	mg/kg		mg/L		mg/L		mg/L	
CHROMIUM,HEXAVALENT	U		-0.002000		-0.004000		-0.004000	

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250314220826		20250314221115		20250314221152	
Analyte	mg/L		mg/L		mg/L	
CHROMIUM,HEXAVALENT	-0.003000		-0.004000		-0.004000	

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250317124404		20250317124822		20250317125023		20250317125251	
Analyte	mg/kg		mg/L		mg/L		mg/L	
CHROMIUM,HEXAVALENT	U		-0.002000		-0.001000		0.0000	

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250317125451		20250317125721	
Analyte	mg/L		mg/L	
CHROMIUM,HEXAVALENT	0.0000		0.001000	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834664-01,02,03,04,05,06,07,08,09

SAMPLE NO.: R4186749-4

MS Sample / File ID:	R4186749-4 / 20250314220035	**SDG:**	L1834664
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2467846
OS Sample / File ID:	L1834645-01 / 20250314220001	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	923	U	U		0.000*		1	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834664-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4186749-5
R4186749-6

MS Sample / File ID:	R4186749-5 / 20250314220107	**SDG:**	L1834664
MSD Sample / File ID:	R4186749-6 / 20250314220119	**Analytical Batch:**	WG2467846
OS Sample / File ID:	L1834645-01 / 20250314220001	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	28.6	U	U	U	0.000*	0.000*	1	75.0 - 125	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834664-10,11

SAMPLE NO.:
R4187196-5

MS Sample / File ID:	R4187196-5 / 20250317125104	**SDG:**	L1834664
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2467844
OS Sample / File ID:	L1835560-06 / 20250317125031	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	818	U	304		37.2*		50	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834664-10,11

SAMPLE NO.:
R4187196-6
R4187196-7

MS Sample / File ID:	R4187196-6 / 20250317125114	**SDG:**	L1834664
MSD Sample / File ID:	R4187196-7 / 20250317125154	**Analytical Batch:**	WG2467844
OS Sample / File ID:	L1835560-06 / 20250317125031	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	24.8	U	U	U	0.000*	0.000*	1	75.0 - 125	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5B-IN

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1834664-01,02,03,04,05,06,07,08,09

SAMPLE NO.: R4186749-3

PS Sample / File ID:	R4186749-3 / 20250314220020	**SDG:**	L1834664
OS Sample / File ID:	L1834645-01 / 20250314220001	**Analytical Batch:**	WG2467846
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	35.7	U	U		0.000*		1	75.0 - 125	*	

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1834664-10,11

PS Sample / File ID:	R4187196-4 / 20250317125050	**SDG:**	L1834664
OS Sample / File ID:	L1835560-06 / 20250317125031	**Analytical Batch:**	WG2467844
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	31.0	U	1.77		5.70*		1	75.0 - 125	*	

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4186749-7 / 20250314220246	**SDG:**	L1834664
OS Sample / File ID:	L1834645-02 / 20250314220144	**Analytical Batch:**	WG2467846
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4186749-8 / 20250314220316	**SDG:**	L1834664
OS Sample / File ID:	L1834645-03 / 20250314220259	**Analytical Batch:**	WG2467846
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187196-3 / 20250317124631	**SDG:**	L1834664
OS Sample / File ID:	L1834664-10 / 20250317124602	**Analytical Batch:**	WG2467844
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	1.65	1.56	5.68	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187196-8 / 20250317125556	**SDG:**	L1834664
OS Sample / File ID:	L1835568-06 / 20250317125514	**Analytical Batch:**	WG2467844
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1834664-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4186749-2

LCS Sample / File ID:	R4186749-2 / 20250314215931	**SDG:**	L1834664
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467846
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Chromium,Hexavalent	24.0	26.3		110		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1834664-10,11

SAMPLE NO.:
R4187196-2

LCS Sample / File ID:	R4187196-2 / 20250317124412	**SDG:**	L1834664
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467844
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Chromium,Hexavalent	24.0	26.5		110		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1834664-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 3060A/7196A

Matrix: Solid **Prep Method:** 3060A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Chromium,Hexavalent	18540-29-9			0.7510	2

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	_____
Analytical Run:	WG2420318	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0	50	12/19/24 15:00		
CAL	.01	51	12/19/24 15:00		
CAL	.02	52	12/19/24 15:00		
CAL	.05	53	12/19/24 15:00		
CAL	.1	54	12/19/24 15:00		
CAL	.5	55	12/19/24 15:00		
CAL	1	56	12/19/24 15:00		

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	12/19/24 15:00
Analytical Run:	WG2467846	**Calibration End Date:**	12/19/24 15:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-3031425215903	20250314215903	03/14/25 21:59		
BLANK	R4186749-1	20250314215922	03/14/25 21:59	1	WG2467846
LCS	R4186749-2	20250314215931	03/14/25 21:59	1	WG2467846
OS	L1834645-01	20250314220001	03/14/25 22:00		
L1834645-01	L1834645-01	20250314220001	03/14/25 22:00	1	WG2467846
PS	R4186749-3	20250314220020	03/14/25 22:00	1	WG2467846
MS	R4186749-4	20250314220035	03/14/25 22:00	1	WG2467846
MS	R4186749-5	20250314220107	03/14/25 22:01	1	WG2467846
MSD	R4186749-6	20250314220119	03/14/25 22:01	1	WG2467846
OS	L1834645-02	20250314220144	03/14/25 22:01		
L1834645-02	L1834645-02	20250314220144	03/14/25 22:01	1	WG2467846
CCV	DR6000-3031425220206	20250314220206	03/14/25 22:02		
CCB	DR6000-3031425220215	20250314220215	03/14/25 22:02		
DUP	R4186749-7	20250314220246	03/14/25 22:02	1	WG2467846
OS	L1834645-03	20250314220259	03/14/25 22:02		
L1834645-03	L1834645-03	20250314220259	03/14/25 22:02	1	WG2467846
DUP	R4186749-8	20250314220316	03/14/25 22:03	1	WG2467846
L1834645-04	L1834645-04	20250314220327	03/14/25 22:03	1	WG2467846
L1834645-05	L1834645-05	20250314220346	03/14/25 22:03	1	WG2467846
L1834645-06	L1834645-06	20250314220404	03/14/25 22:04	1	WG2467846
CCV	DR6000-3031425220417	20250314220417	03/14/25 22:04		
CCB	DR6000-3031425220427	20250314220427	03/14/25 22:04		
CCV	DR6000-3031425220601	20250314220601	03/14/25 22:06		
CCB	DR6000-3031425220610	20250314220610	03/14/25 22:06		
L1834645-11	L1834645-11	20250314220621	03/14/25 22:06	1	WG2467846
MONTROSE_SCHOOL_DITCH_S_SO	L1834664-01	20250314220641	03/14/25 22:06	1	WG2467846
MONTROSE_SCHOOL_DRAINS_S_SO	L1834664-02	20250314220732	03/14/25 22:07	1	WG2467846
650_851_S_SO	L1834664-03	20250314220750	03/14/25 22:07	1	WG2467846
601_T_S_SO	L1834664-04	20250314220808	03/14/25 22:08	1	WG2467846
CCV	DR6000-3031425220818	20250314220818	03/14/25 22:08		
CCB	DR6000-3031425220826	20250314220826	03/14/25 22:08		
250_651_S_SO	L1834664-05	20250314220842	03/14/25 22:08	1	WG2467846
DAVIS_SCHOOL_DITCH_S_SO	L1834664-06	20250314220859	03/14/25 22:08	1	WG2467846
DAVIS_SCHOOL_DRAINS_S_SO	L1834664-07	20250314221011	03/14/25 22:10	1	WG2467846
DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	L1834664-08	20250314221044	03/14/25 22:10	1	WG2467846
CCV	DR6000-3031425221107	20250314221107	03/14/25 22:11		
CCB	DR6000-3031425221115	20250314221115	03/14/25 22:11		
DAVIS_SCHOOL_WPLAYGROUND_S_SO	L1834664-09	20250314221125	03/14/25 22:11	1	WG2467846
CCV	DR6000-3031425221143	20250314221143	03/14/25 22:11		
CCB	DR6000-3031425221152	20250314221152	03/14/25 22:11		

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	12/19/24 15:00
Analytical Run:	WG2467844	**Calibration End Date:**	12/19/24 15:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-3031725124355	20250317124355	03/17/25 12:43		
BLANK	R4187196-1	20250317124404	03/17/25 12:44	1	WG2467844
LCS	R4187196-2	20250317124412	03/17/25 12:44	1	WG2467844
DAVIS_SCHOOL_TRACK_S_SO	L1834664-10	20250317124602	03/17/25 12:46	1	WG2467844
DUP	R4187196-3	20250317124631	03/17/25 12:46	1	WG2467844
DAVIS_SCHOOL_DUP_S_SO	L1834664-11	20250317124640	03/17/25 12:46	1	WG2467844
L1835388-02	L1835388-02	20250317124706	03/17/25 12:47	10	WG2467844
L1835560-01	L1835560-01	20250317124734	03/17/25 12:47	1	WG2467844
CCV	DR6000-3031725124813	20250317124813	03/17/25 12:48		
CCB	DR6000-3031725124822	20250317124822	03/17/25 12:48		
CCV	DR6000-3031725125016	20250317125016	03/17/25 12:50		
CCB	DR6000-3031725125023	20250317125023	03/17/25 12:50		
OS	L1835560-06	20250317125031	03/17/25 12:50		
L1835560-06	L1835560-06	20250317125031	03/17/25 12:50	1	WG2467844
PS	R4187196-4	20250317125050	03/17/25 12:50	1	WG2467844
MS	R4187196-5	20250317125104	03/17/25 12:51	50	WG2467844
MS	R4187196-6	20250317125114	03/17/25 12:51	1	WG2467844
MSD	R4187196-7	20250317125154	03/17/25 12:51	1	WG2467844
L1835560-07	L1835560-07	20250317125215	03/17/25 12:52	1	WG2467844
L1835560-08	L1835560-08	20250317125223	03/17/25 12:52	1	WG2467844
CCV	DR6000-3031725125243	20250317125243	03/17/25 12:52		
CCB	DR6000-3031725125251	20250317125251	03/17/25 12:52		
CCV	DR6000-3031725125444	20250317125444	03/17/25 12:54		
CCB	DR6000-3031725125451	20250317125451	03/17/25 12:54		
OS	L1835568-06	20250317125514	03/17/25 12:55		
L1835568-06	L1835568-06	20250317125514	03/17/25 12:55	1	WG2467844
DUP	R4187196-8	20250317125556	03/17/25 12:55	1	WG2467844
L1835568-07	L1835568-07	20250317125633	03/17/25 12:56	1	WG2467844
L1835568-08	L1835568-08	20250317125649	03/17/25 12:56	1	WG2467844
L1835568-09	L1835568-09	20250317125657	03/17/25 12:56	1	WG2467844
CCV	DR6000-3031725125714	20250317125714	03/17/25 12:57		
CCB	DR6000-3031725125721	20250317125721	03/17/25 12:57		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.01	.007658858	76.60	0.02	.018552278	92.80
File ID:		51			52	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.05	.047964512	95.90	0.10	.094806218	94.80
File ID:		53			54	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.50	.529453676	106	1	.984798632	98.50
File ID:		55			56	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.01	.007658858	76.60	0.02	.018552278	92.80
File ID:		51			52	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.05	.047964512	95.90	0.10	.094806218	94.80
File ID:		53			54	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.50	.529453676	106	1	.984798632	98.50
File ID:		55			56	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CHROMIUM,HEXAVALENT	0	5	0.999332			1.089342	-0.003235	

Calibration Type

0 = Linear Regression

Weightage

5 = None

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1834664	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467846

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CHROMIUM,HEXAVALENT	0	5	0.999332			1.089342	-0.003235	

Calibration Type

0 = Linear Regression

Weightage

5 = None

Created: 12/19/24 15:26

Instrument: DR6000-3

Calibration Date: 12/19/24 15:00

Program Name: CR6 SS 12/19/2024 ARV4164

Wavelength: 540.0 nm

Analytical Method: 7196A SS

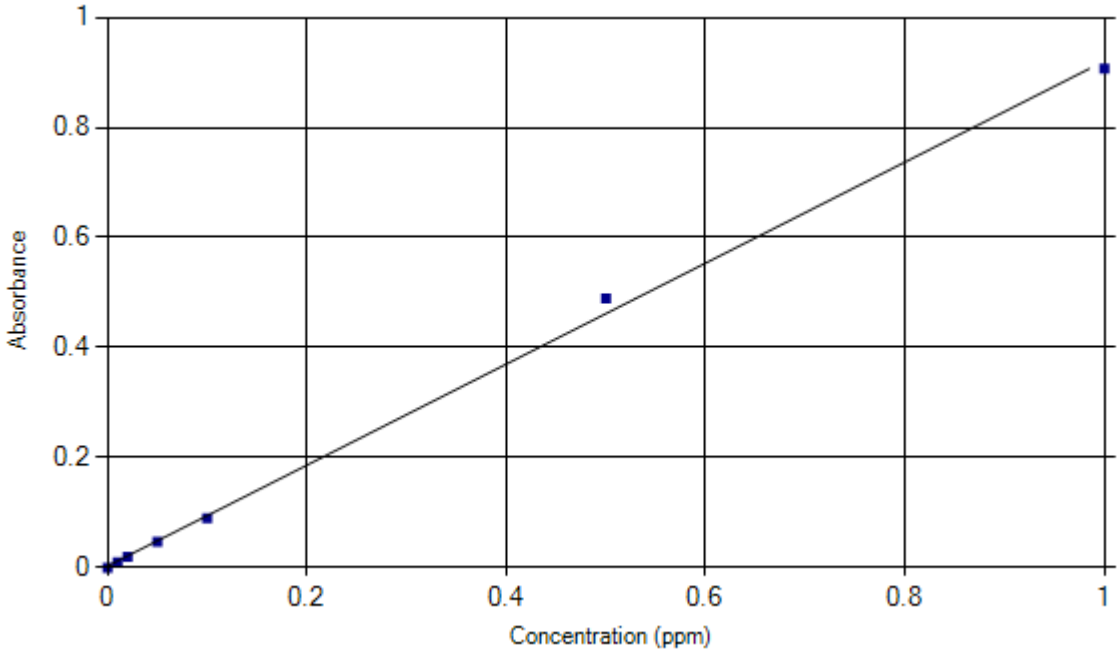
Analyte: CR6

Calibration Equation: Concentration = -0.003234562 + 1.089342 * Absorbance

Standard ID: 24L19163

ppm	Absorbance
0	0
0.01	0.01
0.02	0.02
0.05	0.047
0.1	0.090
0.5	0.489
1	0.907

R = 0.9993323



Instrument: DR6000-3

Created: 03/17/25 13:00

Serial Number: 1894098

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/17/25 12:43:55	CR6	CR6 SS 12/19/2024 ARV4164	ICV	1	0.514	mg/L	0.475
03/17/25 12:44:04	CR6	CR6 SS 12/19/2024 ARV4164	BLANK WG2467844	1	-0.002	mg/L	0.001
03/17/25 12:44:12	CR6	CR6 SS 12/19/2024 ARV4164	LCS WG2467844	1	0.646	mg/L	0.596
03/17/25 12:46:02	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-10 WG2467844	1	0.081	mg/L	0.077
03/17/25 12:46:22	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-10-SB WG2467844	1	0.054	mg/L	0.052
03/17/25 12:46:31	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1834664-10 WG2467844	1	0.080	mg/L	0.076
03/17/25 12:46:40	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-11 WG2467844	1	0.072	mg/L	0.068
03/17/25 12:46:49	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-11-SB WG2467844	1	0.069	mg/L	0.067
03/17/25 12:47:06	CR6	CR6 SS 12/19/2024 ARV4164	L1835388-02 WG2467844	10.000	0.5167	mg/L	0.477
03/17/25 12:47:15	CR6	CR6 SS 12/19/2024 ARV4164	L1835388-02-SB WG2467844	10.000	-0.0044	mg/L	-0.001
03/17/25 12:47:34	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-01 WG2467844	1	0.039	mg/L	0.039
03/17/25 12:48:13	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.513	mg/L	0.473
03/17/25 12:48:22	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.002	mg/L	0.001
03/17/25 12:48:31	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-01-SB WG2467844	1	0.040	mg/L	0.040
03/17/25 12:49:01	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-02 WG2467844	1	0.031	mg/L	0.031
03/17/25 12:49:10	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-02-SB WG2467844	1	0.033	mg/L	0.033
03/17/25 12:49:18	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-03 WG2467844	1	0.137	mg/L	0.128
03/17/25 12:49:28	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-03-SB WG2467844	1	0.143	mg/L	0.134
03/17/25 12:49:37	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-04 WG2467844	1	0.163	mg/L	0.152
03/17/25 12:49:45	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-04-SB WG2467844	1	0.162	mg/L	0.151
03/17/25 12:49:53	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-05 WG2467844	1	0.110	mg/L	0.103
03/17/25 12:50:02	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-05-SB WG2467844	1	0.128	mg/L	0.120
03/17/25 12:50:16	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.513	mg/L	0.474
03/17/25 12:50:23	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.001	mg/L	0.002
03/17/25 12:50:31	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-06 WG2467844	1	0.081	mg/L	0.077
03/17/25 12:50:41	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-06-SB WG2467844	1	0.077	mg/L	0.073
03/17/25 12:50:50	CR6	CR6 SS 12/19/2024 ARV4164	PS L1835560-06 WG2467844	1	0.112	mg/L	0.105
03/17/25 12:51:04	CR6	CR6 SS 12/19/2024 ARV4164	IMS L1835560-06 WG2467844	50.000	0.11956	mg/L	0.113
03/17/25 12:51:14	CR6	CR6 SS 12/19/2024 ARV4164	MS L1835560-06 WG2467844	1	0.087	mg/L	0.083
03/17/25 12:51:54	CR6	CR6 SS 12/19/2024 ARV4164	MSD L1835560-06 WG2467844	1	0.089	mg/L	0.084
03/17/25 12:52:15	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-07 WG2467844	1	0.001	mg/L	0.004
03/17/25 12:52:23	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-08 WG2467844	1	0.023	mg/L	0.024
03/17/25 12:52:31	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-08-SB WG2467844	1	0.023	mg/L	0.024
03/17/25 12:52:43	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.510	mg/L	0.471
03/17/25 12:52:51	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	0.000	mg/L	0.002
03/17/25 12:53:00	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-01 WG2467844	1	0.047	mg/L	0.046
03/17/25 12:53:08	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-01-SB WG2467844	1	0.045	mg/L	0.044
03/17/25 12:53:16	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-02 WG2467844	1	0.088	mg/L	0.084
03/17/25 12:53:25	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-02-SB WG2467844	1	0.099	mg/L	0.094

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/17/25 12:53:51	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-03 WG2467844	1	0.087	mg/L	0.083
03/17/25 12:54:06	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-03-SB WG2467844	1	0.095	mg/L	0.090
03/17/25 12:54:17	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-04 WG2467844	1	0.037	mg/L	0.037
03/17/25 12:54:25	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-04-SB WG2467844	1	0.042	mg/L	0.041
03/17/25 12:54:34	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-05 WG2467844	1	0.082	mg/L	0.078
03/17/25 12:54:44	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.512	mg/L	0.473
03/17/25 12:54:51	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	0.000	mg/L	0.003
03/17/25 12:55:01	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-05-SB WG2467844	1	0.086	mg/L	0.082
03/17/25 12:55:14	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-06 WG2467844	1	0.099	mg/L	0.094
03/17/25 12:55:25	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-06-SB WG2467844	1	0.109	mg/L	0.103
03/17/25 12:55:56	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1835568-06 WG2467844	1	0.100	mg/L	0.095
03/17/25 12:56:33	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-07 WG2467844	1	0.070	mg/L	0.067
03/17/25 12:56:41	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-07-SB WG2467844	1	0.072	mg/L	0.069
03/17/25 12:56:49	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-08 WG2467844	1	0.001	mg/L	0.003
03/17/25 12:56:57	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-09 WG2467844	1	0.017	mg/L	0.018
03/17/25 12:57:05	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-09-SB WG2467844	1	0.015	mg/L	0.017
03/17/25 12:57:14	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.510	mg/L	0.471
03/17/25 12:57:21	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	0.001	mg/L	0.004

Instrument: DR6000-3 Created: 03/14/25 22:16

Serial Number: 1894098

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/14/25 21:59:03	CR6	CR6 SS 12/19/2024 ARV4164	ICV	1	0.507	mg/L	0.468
03/14/25 21:59:22	CR6	CR6 SS 12/19/2024 ARV4164	BLANK WG2467846	1	-0.003	mg/L	0.000
03/14/25 21:59:31	CR6	CR6 SS 12/19/2024 ARV4164	LCS WG2467846	1	0.664	mg/L	0.613
03/14/25 22:00:01	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-01 WG2467846	1	0.060	mg/L	0.058
03/14/25 22:00:11	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-01-SB WG2467846	1	0.056	mg/L	0.054
03/14/25 22:00:20	CR6	CR6 SS 12/19/2024 ARV4164	PS L1834645-01 WG2467846	1	0.059	mg/L	0.057
03/14/25 22:00:35	CR6	CR6 SS 12/19/2024 ARV4164	IMS L1834645-01 WG2467846	1	0.004	mg/L	0.006
03/14/25 22:01:07	CR6	CR6 SS 12/19/2024 ARV4164	MS L1834645-01 WG2467846	1	0.052	mg/L	0.051
03/14/25 22:01:19	CR6	CR6 SS 12/19/2024 ARV4164	MSD L1834645-01 WG2467846	1	0.054	mg/L	0.052
03/14/25 22:01:44	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-02 WG2467846	1	0.021	mg/L	0.022
03/14/25 22:01:54	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-02-SB WG2467846	1	0.021	mg/L	0.022
03/14/25 22:02:06	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.500	mg/L	0.462
03/14/25 22:02:15	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.002	mg/L	0.001
03/14/25 22:02:46	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1834645-02 WG2467846	1	0.021	mg/L	0.022
03/14/25 22:02:59	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-03 WG2467846	1	0.021	mg/L	0.022
03/14/25 22:03:08	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-03-SB WG2467846	1	0.023	mg/L	0.024
03/14/25 22:03:16	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1834645-03 WG2467846	1	0.023	mg/L	0.024
03/14/25 22:03:27	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-04 WG2467846	1	0.030	mg/L	0.030
03/14/25 22:03:36	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-04-SB WG2467846	1	0.017	mg/L	0.018
03/14/25 22:03:46	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-05 WG2467846	1	0.020	mg/L	0.021
03/14/25 22:03:55	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-05-SB WG2467846	1	0.021	mg/L	0.022
03/14/25 22:04:04	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-06 WG2467846	1	0.067	mg/L	0.064
03/14/25 22:04:17	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.498	mg/L	0.460
03/14/25 22:04:27	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.004	mg/L	-0.001
03/14/25 22:04:36	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-06-SB WG2467846	1	0.080	mg/L	0.076
03/14/25 22:04:44	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-07 WG2467846	1	0.010	mg/L	0.012
03/14/25 22:04:53	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-07-SB WG2467846	1	0.010	mg/L	0.012
03/14/25 22:05:05	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-08 WG2467846	1	0.014	mg/L	0.015
03/14/25 22:05:14	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-08-SB WG2467846	1	0.012	mg/L	0.013
03/14/25 22:05:23	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-09 WG2467846	1	0.018	mg/L	0.019
03/14/25 22:05:32	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-09-SB WG2467846	1	0.012	mg/L	0.014
03/14/25 22:05:41	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-10 WG2467846	1	0.035	mg/L	0.035
03/14/25 22:05:50	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-10-SB WG2467846	1	0.034	mg/L	0.034
03/14/25 22:06:01	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.497	mg/L	0.459
03/14/25 22:06:10	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.004	mg/L	-0.001
03/14/25 22:06:21	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-11 WG2467846	1	0.070	mg/L	0.067
03/14/25 22:06:30	CR6	CR6 SS 12/19/2024 ARV4164	L1834645-11-SB WG2467846	1	0.067	mg/L	0.065
03/14/25 22:06:41	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-01 WG2467846	1	0.035	mg/L	0.035
03/14/25 22:07:11	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-01-SB WG2467846	1	0.036	mg/L	0.036

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/14/25 22:07:32	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-02 WG2467846	1	0.058	mg/L	0.056
03/14/25 22:07:41	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-02-SB WG2467846	1	0.057	mg/L	0.055
03/14/25 22:07:50	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-03 WG2467846	1	0.040	mg/L	0.039
03/14/25 22:07:59	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-03-SB WG2467846	1	0.052	mg/L	0.051
03/14/25 22:08:08	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-04 WG2467846	1	0.034	mg/L	0.034
03/14/25 22:08:18	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.497	mg/L	0.459
03/14/25 22:08:26	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.003	mg/L	0.000
03/14/25 22:08:34	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-04-SB WG2467846	1	0.034	mg/L	0.034
03/14/25 22:08:42	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-05 WG2467846	1	0.025	mg/L	0.026
03/14/25 22:08:50	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-05-SB WG2467846	1	0.024	mg/L	0.025
03/14/25 22:08:59	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-06 WG2467846	1	0.088	mg/L	0.084
03/14/25 22:09:07	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-06-SB WG2467846	1	0.073	mg/L	0.070
03/14/25 22:10:11	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-07 WG2467846	1	0.017	mg/L	0.019
03/14/25 22:10:20	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-07-SB WG2467846	1	0.015	mg/L	0.016
03/14/25 22:10:44	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-08 WG2467846	1	0.032	mg/L	0.033
03/14/25 22:10:54	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-08-SB WG2467846	1	0.033	mg/L	0.033
03/14/25 22:11:07	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.495	mg/L	0.457
03/14/25 22:11:15	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.004	mg/L	-0.001
03/14/25 22:11:25	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-09 WG2467846	1	0.053	mg/L	0.052
03/14/25 22:11:34	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-09-SB WG2467846	1	0.051	mg/L	0.050
03/14/25 22:11:43	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.495	mg/L	0.457
03/14/25 22:11:52	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.004	mg/L	-0.001

CR6 SS WetChem Prep Benchsheet

Batch: WG2467844

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25

Analyst: DLS4135 **Prep Start Date/Time:** 03/15/25 12:00 **Prep End Date/Time:** 03/17/25 11:50 **Dig Start Date/Time:** 03/15/25 15:53:00
Dig End Date/Time: 03/15/25 18:24:00 **Dig Start Analyst:** DLS4135 **Dig End Analyst:** DLS4135 **Digest Soln. pH:** 13.13 **Phosphate Buffer pH:** 6.66
SOP: MTJL-0153 **Method:** 3060A **Balance ID:** WETBAL9 **1mL Auto Pipette SN:** VU32730 **0.5mL/1mL Auto Pipette Tips Lot#:** 25010044 **ThermoID:** 1053718
ThermoCorrectFact: -0.5 **ThermoPosition/Temp1(C°)/Temp2(C°):** C4/91.3/93.7 **10mL Pipette Lot #:** NA **Transfer Pipette Lot#:** 24500406 **Filter Lot#:** 329076081
pH Strip Lot#: 10BDH40241 **Tongue Depressor Lot#:** P00638 **0.5mL Auto Pipette S/N:** NA **1mL glass pipette Lot#:** NA **Cuvette Lot#:** NA
Cal and Stds Workgroup: NA **Hotblock ID:** 2021CECW5460 **Centrifuge Tube Lot#:** 25009600 **10mL Syringe Lot#:** 241125 **IR Gun ID:** CP52532
Thermometer Location: C4 **Tmer SN:** 240243854

ICV Standard: 25C17479 Amt. Used: 5 mL Exp. Date:03/18/25 **LCS/D Standard:** 25C17470 Amt. Used: 6 mL Exp. Date:03/18/25
MS/D Standard: 25C17470 Amt. Used: 5 mL Exp. Date:03/18/25 **Post spike:** 25C17470 Amt. Used: 0.60 mL Exp. Date:03/18/25
Digestion Solution: 25C15308 Amt. Used: 50 mL Exp. Date:09/15/25 **5N HNO3:** 25B18331 Amt. Used: 3 Exp. Date:07/07/25
Phosphate Buffer: 25B18330 Amt. Used: 0.50 mL Exp. Date:04/03/25 **H2SO4:** 25B20586 Amt. Used: 3 Exp. Date:08/20/25
Color Reagent: 25C13008 Amt. Used: 0.50 mL Exp. Date:03/20/25 **PbCrO4:** 25A21864 Amt. Used: 0.01 g Exp. Date:01/01/34
Sand: 25A29129 Amt. Used: 2.50 g Exp. Date:07/29/25 **MgCl2:** 25A31532 Amt. Used: 0.40 g Exp. Date:07/31/25
Acetone: 25B26662 Amt. Used: 0.50 mL Exp. Date:08/26/25

Sample Number	Initial Sample Wt. (g)	Final Volume (mL)	Dilution Factor	Adjusted pH	Review Analyst	Review Date
ICV	2.4432	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
BLANK	2.4222	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
LCS	2.4413	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
1. L1834664-10	2.4266	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
2. L1834664-11	2.4561	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
3. L1835388-02	2.5269	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
4. L1835560-01	2.4465	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
5. L1835560-02	2.5207	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
6. L1835560-03	2.6053	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
7. L1835560-04	2.4293	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
8. L1835560-05	2.6062	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
9. L1835560-06	2.4553	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
10. L1835560-07	2.4352	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
11. L1835560-08	2.4388	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
12. L1835568-01	2.5163	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
13. L1835568-02	2.6772	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
14. L1835568-03	2.4339	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
15. L1835568-04	2.5219	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
16. L1835568-05	2.4573	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
17. L1835568-06	2.4633	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
18. L1835568-07	2.4112	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
19. L1835568-08	2.4753	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
20. L1835568-09	2.6825	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
DUP(L1834664-10)	2.4416	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
DUP(L1835568-06)	2.4605	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
MS(L1835560-06)	2.4279	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
MSD(L1835560-06)	2.4128	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
Ins MS(L1835560-06)	2.4358	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00

Comments:

Reviewed By:PAN4313 on 03/17/25 12:34:00

#	Type	Thermometer	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	IR Gun 1	1053718	-0.6	03/15/25 15:23:07	91.3	90.7	03/15/25 15:53:32	93.7	93.1	ICV, BLANK, LCS, L1834664-10, L1835568-09, L1835568-08, L1835568-07, L1835568-06, L1835568-05, L1835568-04, L1835568-03, L1835568-02, L1835568-01, L1835560-08, L1835560-07, L1835560-06, L1835560-05, L1835560-04, L1835560-03, L1835560-02, L1835560-01, L1835388-02, L1834664-11, DUP(L1834664-10), DUP(L1835568-06), MS(L1835560-06), MSD(L1835560-06), Ins MS(L1835560-06)
2	IR Gun 1	1053718	-0.6	03/15/25 15:53:25	93.7	93.1	03/15/25 16:24:47	95.0	94.4	ICV, BLANK, LCS, L1834664-10, L1834664-11, L1835388-02, L1835560-01, L1835560-02, L1835560-03, L1835560-04, L1835560-05, L1835560-06, L1835560-07, L1835560-08, L1835568-01, L1835568-02, L1835568-03, L1835568-04, L1835568-05, L1835568-06, L1835568-07, L1835568-08, L1835568-09, DUP(L1834664-10), DUP(L1835568-06), MS(L1835560-06), MSD(L1835560-06), Ins MS(L1835560-06)

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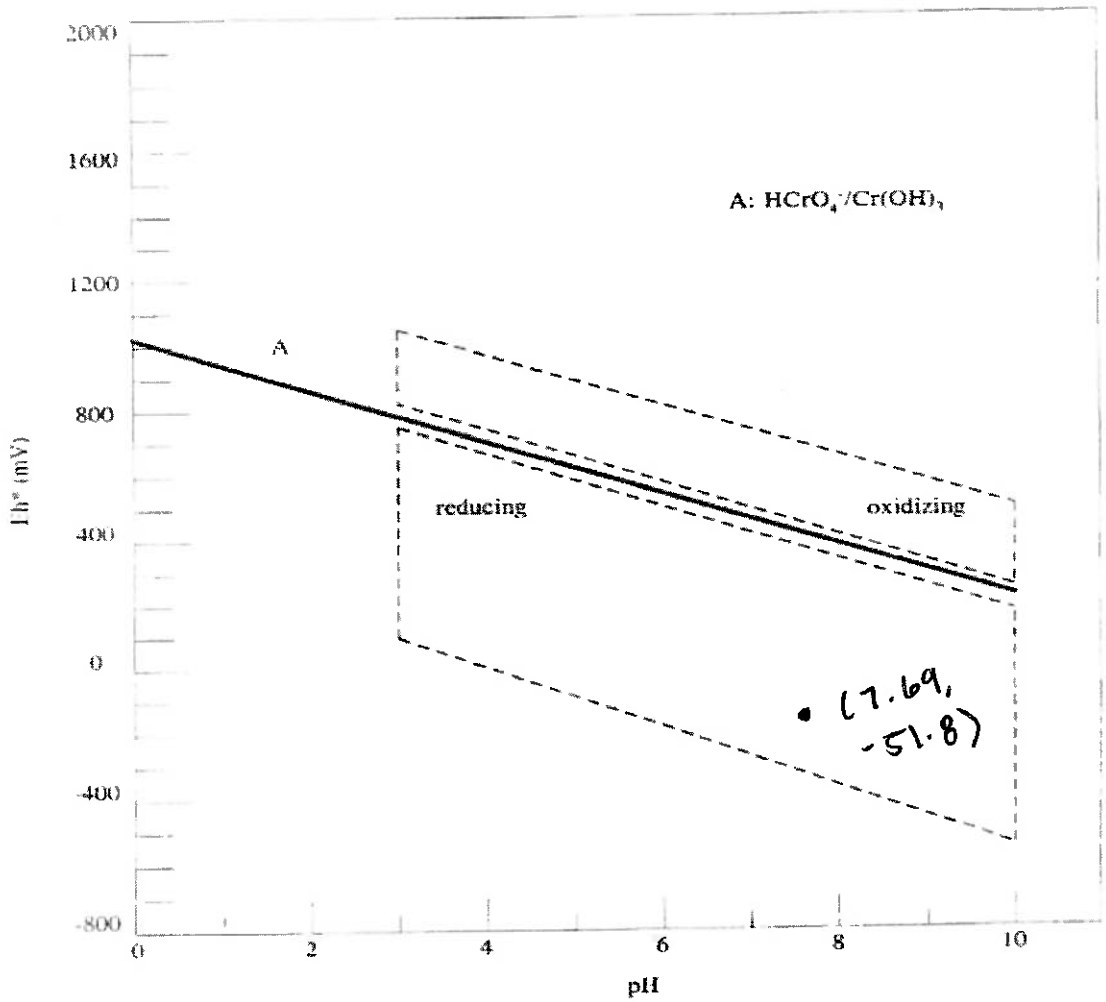
STANDARD OPERATING PROCEDURE
TITLE: ENV-SOP-MTJL-0153 Hexavalent Chromium (colorimetric) in Solid Material (EPA Methods 7196A and 3060A)
ISSUER: Pace National – Mt. Juliet, Tennessee

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PAN4313
03/17/25

Attachment III: Eh/pH Phase Diagram

The dashed lines define Eh-pH boundaries commonly encountered in soils and sediments



* Note the Eh values plotted on this diagram are corrected for the reference electrode voltage: 244 mV units must be added to the measured value when a separate calomel electrode is used, or 199 mV units must be added if a combination platinum electrode is used

WG2467844
L1835560-06

pH = 7.69
mV = -51.8

CR6 SS WetChem Prep Benchsheet

Batch: WG2467846

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834645	WG2466977	BJM688	PREPREPBAL4	03/14/25 13:48:52
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25

Analyst: ARV4164 **Prep Start Date/Time:** 03/13/25 22:00 **Prep End Date/Time:** 03/14/25 21:55 **Dig Start Date/Time:** 03/13/25 22:40:00
Dig End Date/Time: 03/13/25 23:40:00 **Dig Start Analyst:** ARV4164 **Dig End Analyst:** ARV4164 **Digest Soln. pH:** 13.13 **Phosphate Buffer pH:** 6.61
SOP: MTJL-0153 **Method:** 3060A **Balance ID:** WETBAL10 **1mL Auto Pipette SN:** VU32730 **0.5mL/1mL Auto Pipette Tips Lot#:** NA **ThermoID:** 1053718
ThermoCorrectFact: -0.5 **ThermoPosition/Temp1(C°)/Temp2(C°):** C4/92/92 **10mL Pipette Lot #:** NA **Transfer Pipette Lot#:** 224350493 **Filter Lot#:** 329076081
pH Strip Lot#: 10BDH40241 **Tongue Depressor Lot#:** P00638 **0.5mL Auto Pipette S/N:** NA **1mL glass pipette Lot#:** NA **Cuvette Lot#:** NA
Cal and Stds Workgroup: NA **Hotblock ID:** 202ICECW5460 **Centrifuge Tube Lot#:** 25007306 **10mL Syringe Lot#:** 241125 **IR Gun ID:** CP52532
Thermometer Location: C4 **Tmer SN:** 230759563

ICV Standard: 25C13099 Amt. Used: 5 mL Exp. Date:03/14/25 **LCS/D Standard:** 25C13098 Amt. Used: 6 mL Exp. Date:03/14/25
MS/D Standard: 25C13098 Amt. Used: 5 mL Exp. Date:03/14/25 **Digestion Solution:** 25C01142 Amt. Used: 50 mL Exp. Date:09/01/25
5N HNO3: 25B27843 Amt. Used: 5 Exp. Date:08/20/25 **Phosphate Buffer:** 25B18330 Amt. Used: 0.50 mL Exp. Date:04/03/25
H2SO4: 25B20586 Amt. Used: 3 Exp. Date:08/20/25 **Color Reagent:** 25C13008 Amt. Used: 0.50 mL Exp. Date:03/20/25
PbCrO4: 25A21864 Amt. Used: 0.01 g Exp. Date:01/01/34 **Sand:** 25A29129 Amt. Used: 2.50 g Exp. Date:07/29/25 **MgCl2:** 25A31532 Amt. Used: 0.40 g Exp. Date:07/31/25

Sample Number	Initial Sample Wt. (g)	Final Volume (mL)	Dilution Factor	Adjusted pH	Review Analyst	Review Date
ICV	2.5244	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
BLANK	2.5103	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
LCS	2.5200	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
1. L1834645-01	2.4948	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
2. L1834645-02	2.5126	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
3. L1834645-03	2.4910	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
4. L1834645-04	2.5198	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
5. L1834645-05	2.4728	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
6. L1834645-06	2.4883	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
7. L1834645-07	2.4857	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
8. L1834645-08	2.4900	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
9. L1834645-09	2.4909	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
10. L1834645-10	2.5017	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
11. L1834645-11	2.5278	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
12. L1834664-01	2.5200	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
13. L1834664-02	2.5333	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
14. L1834664-03	2.4958	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
15. L1834664-04	2.4929	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
16. L1834664-05	2.4947	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
17. L1834664-06	2.4865	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
18. L1834664-07	2.5039	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
19. L1834664-08	2.5073	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
20. L1834664-09	2.4994	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
DUP(L1834645-02)	2.4839	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
DUP(L1834645-03)	2.4839	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
MS(L1834645-01)	2.5298	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
MSD(L1834645-01)	2.5128	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32
Ins MS(L1834645-01)	2.4875	100	1	1.5-2.5	ARV4164	03/14/25 22:13:32

Comments:

Reviewed By:ARV4164 on 03/14/25 22:13:32

#	Type	Thermometer	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	IR Gun 1	1053718	-.5	03/13/25 22:40:02	92	91.5	03/13/25 23:10:13	92	91.5	ICV, BLANK, LCS, L1834645-01, L1834664-09, L1834664-08, L1834664-07, L1834664-06, L1834664-05, L1834664-04, L1834664-03, L1834664-02, L1834664-01, L1834645-11, L1834645-10, L1834645-09, L1834645-08, L1834645-07, L1834645-06, L1834645-05, L1834645-04, L1834645-03, L1834645-02, DUP(L1834645-02), DUP(L1834645-03), MS(L1834645-01), MSD(L1834645-01), Ins MS(L1834645-01)
2	IR Gun 1	1053718	-.5	03/13/25 23:10:28	92	91.5	03/13/25 23:40:37	92	91.5	ICV, BLANK, LCS, L1834645-01, L1834645-02, L1834645-03, L1834645-04, L1834645-05, L1834645-06, L1834645-07, L1834645-08, L1834645-09, L1834645-10, L1834645-11, L1834664-01, L1834664-02, L1834664-03, L1834664-04, L1834664-05, L1834664-06, L1834664-07, L1834664-08, L1834664-09, DUP(L1834645-02), DUP(L1834645-03), MS(L1834645-01), MSD(L1834645-01), Ins MS(L1834645-01)

6010D Metals (ICP)

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1834664-01	**SDG:**	L1834664
Client Sample ID:	MONTROSE_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250313205655	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 10:25
Analytical Batch:	WG2467988	**Analysis Date/Time:**	03/13/25 20:56
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	77.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	4.31		1.08	2.58
Barium	7440-39-3	171		0.110	0.644
Boron	7440-42-8	U		5.80	25.8
Cadmium	7440-43-9	0.599	J	0.0842	0.644
Chromium	7440-47-3	9.91		0.276	1.29
Cobalt	7440-48-4	8.53		0.228	1.29
Lead	7439-92-1	45.0		0.420	0.644
Lithium	7439-93-2	4.24	J	0.522	6.44
Selenium	7782-49-2	1.60	J	1.38	2.58
Silver	7440-22-4	U		0.164	1.29

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1834664-02	**SDG:**	L1834664
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250313205945	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 10:25
Analytical Batch:	WG2467988	**Analysis Date/Time:**	03/13/25 20:59
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	75.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	6.21		1.11	2.65
Barium	7440-39-3	161		0.113	0.662
Boron	7440-42-8	U		5.96	26.5
Cadmium	7440-43-9	0.442	J	0.0864	0.662
Chromium	7440-47-3	11.0		0.283	1.32
Cobalt	7440-48-4	14.4		0.234	1.32
Lead	7439-92-1	28.2		0.432	0.662
Lithium	7439-93-2	7.37		0.536	6.62
Selenium	7782-49-2	U		1.42	2.65
Silver	7440-22-4	U		0.168	1.32

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834664-03	**SDG:**	L1834664
Client Sample ID:	650_851_S_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	20250313210230	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 10:25
Analytical Batch:	WG2467988	**Analysis Date/Time:**	03/13/25 21:02
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	72.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	3.11		1.16	2.78
Barium	7440-39-3	95.8		0.118	0.694
Boron	7440-42-8	U		6.25	27.8
Cadmium	7440-43-9	0.213	J	0.0907	0.694
Chromium	7440-47-3	7.64		0.297	1.39
Cobalt	7440-48-4	5.58		0.246	1.39
Lead	7439-92-1	14.0		0.453	0.694
Lithium	7439-93-2	5.27	J	0.562	6.94
Selenium	7782-49-2	U		1.49	2.78
Silver	7440-22-4	U		0.176	1.39

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834664-04	**SDG:**	L1834664
Client Sample ID:	601_T_S_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	20250313211041	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 10:25
Analytical Batch:	WG2467988	**Analysis Date/Time:**	03/13/25 21:10
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	69.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.67	J	1.20	2.86
Barium	7440-39-3	99.3		0.122	0.716
Boron	7440-42-8	U		6.44	28.6
Cadmium	7440-43-9	0.579	J	0.0935	0.716
Chromium	7440-47-3	6.62		0.306	1.43
Cobalt	7440-48-4	4.53		0.253	1.43
Lead	7439-92-1	16.1		0.467	0.716
Lithium	7439-93-2	6.88	J	0.580	7.16
Selenium	7782-49-2	U		1.53	2.86
Silver	7440-22-4	U		0.182	1.43

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834664-05	**SDG:**	L1834664
Client Sample ID:	250_651_S_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	20250313175352	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2468048	**Analysis Date/Time:**	03/13/25 17:53
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	61.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	3.12	J	1.35	3.24
Barium	7440-39-3	132		0.137	0.809
Boron	7440-42-8	8.61	J	7.28	32.4
Cadmium	7440-43-9	0.826		0.106	0.809
Chromium	7440-47-3	18.9		0.346	1.62
Cobalt	7440-48-4	8.90		0.286	1.62
Lead	7439-92-1	13.8		0.527	0.809
Lithium	7439-93-2	11.5		0.655	8.09
Selenium	7782-49-2	U		1.73	3.24
Silver	7440-22-4	U		0.205	1.62

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1834664-06	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	20250313175647	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2468048	**Analysis Date/Time:**	03/13/25 17:56
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):	67.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	6.44		1.24	2.95
Barium	7440-39-3	127		0.125	0.738
Boron	7440-42-8	U		6.64	29.5
Cadmium	7440-43-9	0.315	J	0.0964	0.738
Chromium	7440-47-3	25.0		0.316	1.48
Cobalt	7440-48-4	8.90		0.261	1.48
Lead	7439-92-1	18.3		0.481	0.738
Lithium	7439-93-2	10.6		0.598	7.38
Selenium	7782-49-2	U		1.58	2.95
Silver	7440-22-4	U		0.187	1.48

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1834664-07	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	20250313175959	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2468048	**Analysis Date/Time:**	03/13/25 17:59
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	69.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	8.38		1.21	2.89
Barium	7440-39-3	97.3		0.123	0.724
Boron	7440-42-8	U		6.51	28.9
Cadmium	7440-43-9	0.559	J	0.0945	0.724
Chromium	7440-47-3	18.6		0.310	1.45
Cobalt	7440-48-4	8.06		0.256	1.45
Lead	7439-92-1	39.2		0.472	0.724
Lithium	7439-93-2	8.51		0.586	7.24
Selenium	7782-49-2	1.93	J	1.55	2.89
Silver	7440-22-4	0.301	J	0.184	1.45

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAY GROUND_S_SO

Lab Sample ID:	L1834664-08	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	20250313180835	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2468048	**Analysis Date/Time:**	03/13/25 18:08
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	68.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	8.67		1.22	2.91
Barium	7440-39-3	299		0.124	0.727
Boron	7440-42-8	U		6.54	29.1
Cadmium	7440-43-9	0.404	J	0.0949	0.727
Chromium	7440-47-3	30.3		0.311	1.45
Cobalt	7440-48-4	22.7		0.257	1.45
Lead	7439-92-1	31.9		0.474	0.727
Lithium	7439-93-2	14.8		0.589	7.27
Selenium	7782-49-2	U		1.56	2.91
Silver	7440-22-4	U		0.185	1.45

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_S_SO

Lab Sample ID:	L1834664-09	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	20250313181130	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2468048	**Analysis Date/Time:**	03/13/25 18:11
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	67.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	6.71		1.25	2.98
Barium	7440-39-3	180		0.127	0.745
Boron	7440-42-8	U		6.70	29.8
Cadmium	7440-43-9	0.329	J	0.0973	0.745
Chromium	7440-47-3	28.1		0.319	1.49
Cobalt	7440-48-4	9.67		0.264	1.49
Lead	7439-92-1	25.1		0.486	0.745
Lithium	7439-93-2	12.1		0.603	7.45
Selenium	7782-49-2	U		1.59	2.98
Silver	7440-22-4	U		0.189	1.49

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_S_SO

Lab Sample ID:	L1834664-10	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_TRACK_S_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	20250313181427	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2468048	**Analysis Date/Time:**	03/13/25 18:14
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	67.3	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	6.03		1.24	2.97
Barium	7440-39-3	137		0.126	0.743
Boron	7440-42-8	U		6.69	29.7
Cadmium	7440-43-9	0.298	J	0.0970	0.743
Chromium	7440-47-3	18.8		0.318	1.49
Cobalt	7440-48-4	8.30		0.263	1.49
Lead	7439-92-1	19.5		0.484	0.743
Lithium	7439-93-2	8.02		0.602	7.43
Selenium	7782-49-2	1.81	J	1.59	2.97
Silver	7440-22-4	U		0.189	1.49

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_S_SO

Lab Sample ID:	L1834664-11	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DUP_S_SO	**Collected Date/Time:**	03/10/25 17:05
Lab File ID:	20250313211324	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 10:25
Analytical Batch:	WG2467988	**Analysis Date/Time:**	03/13/25 21:13
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	72.3	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	5.41		1.16	2.77
Barium	7440-39-3	113		0.118	0.692
Boron	7440-42-8	U		6.22	27.7
Cadmium	7440-43-9	0.295	J	0.0903	0.692
Chromium	7440-47-3	9.10		0.296	1.38
Cobalt	7440-48-4	5.43		0.245	1.38
Lead	7439-92-1	20.1		0.451	0.692
Lithium	7439-93-2	3.63	J	0.560	6.92
Selenium	7782-49-2	U		1.48	2.77
Silver	7440-22-4	U		0.176	1.38

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186271-1	**SDG:**	L1834664
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250313203833	**Received Date/Time:**	_____
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 10:23
Analytical Batch:	WG2467988	**Analysis Date/Time:**	03/13/25 20:38
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		0.837	2.00
Barium	7440-39-3	U		0.0850	0.500
Boron	7440-42-8	U		4.50	20.0
Cadmium	7440-43-9	U		0.0653	0.500
Chromium	7440-47-3	U		0.214	1.00
Cobalt	7440-48-4	U		0.177	1.00
Lead	7439-92-1	U		0.326	0.500
Lithium	7439-93-2	U		0.405	5.00
Selenium	7782-49-2	U		1.07	2.00
Silver	7440-22-4	U		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186391-1	**SDG:**	L1834664
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250313173413	**Received Date/Time:**	
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2468048	**Analysis Date/Time:**	03/13/25 17:34
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		0.837	2.00
Barium	7440-39-3	U		0.0850	0.500
Boron	7440-42-8	U		4.50	20.0
Cadmium	7440-43-9	U		0.0653	0.500
Chromium	7440-47-3	U		0.214	1.00
Cobalt	7440-48-4	U		0.177	1.00
Lead	7439-92-1	U		0.326	0.500
Lithium	7439-93-2	U		0.405	5.00
Selenium	7782-49-2	U		1.07	2.00
Silver	7440-22-4	U		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186271-2	**SDG:**	L1834664
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250313204106	**Received Date/Time:**	
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 10:23
Analytical Batch:	WG2467988	**Analysis Date/Time:**	03/13/25 20:41
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.52 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	95.5		0.837	2.00
Barium	7440-39-3	101		0.0850	0.500
Boron	7440-42-8	91.5		4.50	20.0
Cadmium	7440-43-9	94.4		0.0653	0.500
Chromium	7440-47-3	98.2		0.214	1.00
Cobalt	7440-48-4	91.2		0.177	1.00
Lead	7439-92-1	92.5		0.326	0.500
Lithium	7439-93-2	96.9		0.405	5.00
Selenium	7782-49-2	92.4		1.07	2.00
Silver	7440-22-4	19.5		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186391-2	**SDG:**	L1834664
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250313173654	**Received Date/Time:**	
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2468048	**Analysis Date/Time:**	03/13/25 17:36
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	103		0.837	2.00
Barium	7440-39-3	110		0.0850	0.500
Boron	7440-42-8	100		4.50	20.0
Cadmium	7440-43-9	101		0.0653	0.500
Chromium	7440-47-3	111		0.214	1.00
Cobalt	7440-48-4	99.8		0.177	1.00
Lead	7439-92-1	99.9		0.326	0.500
Lithium	7439-93-2	108		0.405	5.00
Selenium	7782-49-2	101		1.07	2.00
Silver	7440-22-4	20.2		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186271-5	**SDG:**	L1834664
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 18:25
Lab File ID:	20250313205133	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 10:23
Analytical Batch:	WG2467988	**Analysis Date/Time:**	03/13/25 20:51
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	89.5		0.837	2.00
Barium	7440-39-3	499	J5	0.0850	0.500
Boron	7440-42-8	80.1		4.50	20.0
Cadmium	7440-43-9	86.8		0.0653	0.500
Chromium	7440-47-3	99.3		0.214	1.00
Cobalt	7440-48-4	90.3		0.177	1.00
Lead	7439-92-1	98.1		0.326	0.500
Lithium	7439-93-2	97.0		0.405	5.00
Selenium	7782-49-2	85.3		1.07	2.00
Silver	7440-22-4	18.2		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186391-5	**SDG:**	L1834664
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 08:54
Lab File ID:	20250313174758	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2468048	**Analysis Date/Time:**	03/13/25 17:47
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.46 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	102		0.837	2.00
Barium	7440-39-3	214		0.0850	0.500
Boron	7440-42-8	98.8		4.50	20.0
Cadmium	7440-43-9	98.7		0.0653	0.500
Chromium	7440-47-3	126		0.214	1.00
Cobalt	7440-48-4	107		0.177	1.00
Lead	7439-92-1	114		0.326	0.500
Lithium	7439-93-2	119		0.405	5.00
Selenium	7782-49-2	94.5		1.07	2.00
Silver	7440-22-4	19.4		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186271-6	**SDG:**	L1834664
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 18:25
Lab File ID:	20250313205404	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 10:23
Analytical Batch:	WG2467988	**Analysis Date/Time:**	03/13/25 20:54
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	96.6		0.837	2.00
Barium	7440-39-3	459	J5	0.0850	0.500
Boron	7440-42-8	89.7		4.50	20.0
Cadmium	7440-43-9	93.6		0.0653	0.500
Chromium	7440-47-3	105		0.214	1.00
Cobalt	7440-48-4	96.5		0.177	1.00
Lead	7439-92-1	105		0.326	0.500
Lithium	7439-93-2	105		0.405	5.00
Selenium	7782-49-2	90.7		1.07	2.00
Silver	7440-22-4	19.6		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186391-6	**SDG:**	L1834664
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 08:54
Lab File ID:	20250313175047	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2468048	**Analysis Date/Time:**	03/13/25 17:50
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	98.1		0.837	2.00
Barium	7440-39-3	212		0.0850	0.500
Boron	7440-42-8	97.0		4.50	20.0
Cadmium	7440-43-9	96.4		0.0653	0.500
Chromium	7440-47-3	123		0.214	1.00
Cobalt	7440-48-4	105		0.177	1.00
Lead	7439-92-1	112		0.326	0.500
Lithium	7439-93-2	117		0.405	5.00
Selenium	7782-49-2	92.4		1.07	2.00
Silver	7440-22-4	18.8		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186271-4	**SDG:**	L1834664
Client Sample ID:	PS	**Collected Date/Time:**	03/10/25 18:25
Lab File ID:	20250313204902	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 10:25
Analytical Batch:	WG2467988	**Analysis Date/Time:**	03/13/25 20:49
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.52 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	101		0.837	2.00
Barium	7440-39-3	394		0.0850	0.500
Boron	7440-42-8	92.8		4.50	20.0
Cadmium	7440-43-9	96.5		0.0653	0.500
Chromium	7440-47-3	110		0.214	1.00
Cobalt	7440-48-4	101		0.177	1.00
Lead	7439-92-1	109		0.326	0.500
Lithium	7439-93-2	109		0.405	5.00
Selenium	7782-49-2	95.2		1.07	2.00
Silver	7440-22-4	20.2		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186330-5	**SDG:**	L1834664
Client Sample ID:	PS	**Collected Date/Time:**	03/10/25 18:23
Lab File ID:	20250314000223	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/13/25 10:25
Analytical Batch:	WG2467988	**Analysis Date/Time:**	03/14/25 00:02
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	105		0.837	2.00
Barium	7440-39-3	197		0.0850	0.500
Boron	7440-42-8	99.8		4.50	20.0
Cadmium	7440-43-9	101		0.0653	0.500
Chromium	7440-47-3	107		0.214	1.00
Cobalt	7440-48-4	106		0.177	1.00
Lead	7439-92-1	113		0.326	0.500
Lithium	7439-93-2	103		0.405	5.00
Selenium	7782-49-2	97.6		1.07	2.00
Silver	7440-22-4	20.7		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186391-4	**SDG:**	L1834664
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 08:54
Lab File ID:	20250313174519	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2468048	**Analysis Date/Time:**	03/13/25 17:45
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	98.7		0.837	2.00
Barium	7440-39-3	205		0.0850	0.500
Boron	7440-42-8	97.4		4.50	20.0
Cadmium	7440-43-9	95.6		0.0653	0.500
Chromium	7440-47-3	121		0.214	1.00
Cobalt	7440-48-4	103		0.177	1.00
Lead	7439-92-1	113		0.326	0.500
Lithium	7439-93-2	114		0.405	5.00
Selenium	7782-49-2	93.5		1.07	2.00
Silver	7440-22-4	18.6		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186271-3	**SDG:**	L1834664
Client Sample ID:	SD	**Collected Date/Time:**	03/10/25 18:25
Lab File ID:	20250313204631	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 10:25
Analytical Batch:	WG2467988	**Analysis Date/Time:**	03/13/25 20:46
Dilution Factor:	5	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.52 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**MDL**	**RDL**
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		4.19	10.0
Barium	7440-39-3	351	O1	0.425	2.50
Boron	7440-42-8	U		22.5	100
Cadmium	7440-43-9	U		0.327	2.50
Chromium	7440-47-3	13.1		1.07	5.00
Cobalt	7440-48-4	5.17		0.885	5.00
Lead	7439-92-1	11.9		1.63	2.50
Lithium	7439-93-2	9.16	J	2.03	25.0
Selenium	7782-49-2	U		5.35	10.0
Silver	7440-22-4	U		0.635	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186330-4	**SDG:**	L1834664
Client Sample ID:	SD	**Collected Date/Time:**	03/10/25 18:23
Lab File ID:	20250314000043	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/13/25 10:25
Analytical Batch:	WG2467988	**Analysis Date/Time:**	03/14/25 00:00
Dilution Factor:	5	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		4.19	10.0
Barium	7440-39-3	93.7		0.425	2.50
Boron	7440-42-8	U		22.5	100
Cadmium	7440-43-9	0.365	J	0.327	2.50
Chromium	7440-47-3	6.62		1.07	5.00
Cobalt	7440-48-4	3.17	J	0.885	5.00
Lead	7439-92-1	8.48		1.63	2.50
Lithium	7439-93-2	3.89	J	2.03	25.0
Selenium	7782-49-2	U		5.35	10.0
Silver	7440-22-4	U		0.635	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186391-3	**SDG:**	L1834664
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 08:54
Lab File ID:	20250313174231	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:26
Analytical Batch:	WG2468048	**Analysis Date/Time:**	03/13/25 17:42
Dilution Factor:	5	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		4.19	10.0
Barium	7440-39-3	103		0.425	2.50
Boron	7440-42-8	U		22.5	100
Cadmium	7440-43-9	U		0.327	2.50
Chromium	7440-47-3	20.7		1.07	5.00
Cobalt	7440-48-4	4.77	J	0.885	5.00
Lead	7439-92-1	14.8		1.63	2.50
Lithium	7439-93-2	11.6	J	2.03	25.0
Selenium	7782-49-2	U		5.35	10.0
Silver	7440-22-4	U		0.635	5.00

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A
Concentration Units:	mg/l		

		ICV				**ICVLL**				**CCV**		
Sample ID:		ICP130313250817-2				ICP130313250842-2				ICP130313251707		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9827878	98.30	0.673000	0.01	0.01112877	111	32.000000	1	1.005258	101	0.186000
BARIUM	1	1.043796	104	0.583000	0.0050	0.005441027	109	4.480000	0.50	0.518657	104	0.609000
BORON	1	0.9990383	99.90	0.912000	0.20	0.2016307	101	3.070000	1	0.9958402	99.60	0.806000
CADMIUM	1	0.9730315	97.30	0.481000	0.0020	0.002087075	104	7.020000	0.50	0.5015178	100	0.560000
CHROMIUM	1	1.048729	105	0.244000	0.01	0.01079324	108	3.180000	1	1.038787	104	0.457000
COBALT	1	0.9704889	97	0.572000	0.01	0.009553317	95.50	2.690000	1	0.9882934	98.80	0.491000
LEAD	1	0.9793258	97.90	0.839000	0.0050	0.005777003	116	46.400000	0.50	0.4997624	100	0.660000
LITHIUM	1	1.010306	101	0.353000	0.0150	0.01428389	95.20	5.280000	1	1.038853	104	0.553000
SELENIUM	1	0.9614637	96.10	0.428000	0.01	0.009063138	90.60	48.500000	1	0.9916133	99.20	1.990000
SILVER	1	0.9873888	98.70	0.639000	0.0050	0.005369757	107	8.890000	0.50	0.5243025	105	0.300000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A
Concentration Units:	mg/l		

		CCV				**CCV**		
Sample ID:		ICP130313251802				ICP130313251828		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9950245	99.50	1.450000	1	0.9910561	99.10	0.950000
BARIUM	0.50	0.5145875	103	0.542000	0.50	0.5151436	103	0.207000
BORON	1	0.9828054	98.30	0.752000	1	0.981781	98.20	0.975000
CADMIUM	0.50	0.4945812	98.90	0.439000	0.50	0.4944176	98.90	0.282000
CHROMIUM	1	1.032271	103	0.104000	1	1.033866	103	0.143000
COBALT	1	0.9785062	97.90	0.537000	1	0.9810827	98.10	0.340000
LEAD	0.50	0.4914643	98.30	0.674000	0.50	0.4904382	98.10	0.602000
LITHIUM	1	1.006062	101	0.330000	1	1.014093	101	0.272000
SELENIUM	1	0.9714695	97.10	0.904000	1	0.9822238	98.20	0.214000
SILVER	0.50	0.5150951	103	0.277000	0.50	0.5159741	103	0.345000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 08:13
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/13/25 08:29
Analytical Method:	6010D	**Analytical Run:**	031325ICP14A
Concentration Units:	mg/l		

		ICV				**ICVLL**				**CCVLL**		
Sample ID:		ICP140313250832-3				ICP140313250849-3				ICP140313251344-3		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9933183	99.30	0.400000	0.01	0.008889146	88.90	25.100000	0.01	0.008516764	85.20	35.400000
BARIUM	1	1.037192	104	0.378000	0.0050	0.005644838	113	1.180000	0.0050	0.005644199	113	3.210000
BORON	1	0.9928937	99.30	2.180000	0.20	0.1938191	96.90	11.000000	0.20	0.2012257	101	4.420000
CADMIUM	1	0.9818857	98.20	0.252000	0.0020	0.001829411	91.50	8.130000	0.0020	0.001779189	89	8.290000
CHROMIUM	1	1.030752	103	0.295000	0.01	0.01058849	106	4.710000	0.01	0.0106639	107	0.719000
COBALT	1	0.9715935	97.20	0.816000	0.01	0.01006867	101	0.833000	0.01	0.01009024	101	1.520000
LEAD	1	0.973798	97.40	0.597000	0.0050	0.004179442	83.60	19.600000	0.0050	0.005099797	102	11.600000
LITHIUM	1	1.009682	101	0.240000	0.0150	0.01491192	99.40	24.000000	0.0150	0.01649184	110	12.100000
SELENIUM	1	0.9599889	96	0.842000	0.01	0.008888173	88.90	40.900000	0.01	0.008029215	80.30	38.600000
SILVER	1	0.985893	98.60	0.198000	0.0050	0.005448745	109	9.400000	0.0050	0.004845618	96.90	2.370000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCVLL Limits: 50 - 150 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 08:13
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/13/25 08:29
Analytical Method:	6010D	**Analytical Run:**	031325ICP14A
Concentration Units:	mg/l		

		CCV				CCV				CCV		
Sample ID:		ICP140313252032				ICP140313252105				ICP140313252137		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9927326	99.30	0.674000	1	1.010598	101	0.175000	1	1.00888	101	0.362000
BARIUM	0.50	0.5273796	105	0.706000	0.50	0.5377251	108	0.791000	0.50	0.5323837	106	0.125000
BORON	1	0.959136	95.90	2.300000	1	0.9711146	97.10	1.900000	1	0.9676483	96.80	2.690000
CADMIUM	0.50	0.5000791	100	0.207000	0.50	0.5094948	102	0.259000	0.50	0.5091222	102	0.059800
CHROMIUM	1	1.010778	101	0.810000	1	1.026837	103	0.216000	1	1.040312	104	0.442000
COBALT	1	0.9652275	96.50	0.882000	1	0.9825453	98.30	0.602000	1	0.9846876	98.50	0.147000
LEAD	0.50	0.4865571	97.30	0.055200	0.50	0.496648	99.30	0.610000	0.50	0.4898196	98	0.266000
LITHIUM	1	0.9947356	99.50	0.612000	1	1.015437	102	0.671000	1	1.023918	102	0.507000
SELENIUM	1	0.9828674	98.30	0.675000	1	1.0065	101	0.809000	1	1.00949	101	0.474000
SILVER	0.50	0.5189755	104	0.607000	0.50	0.5290166	106	0.035500	0.50	0.5284844	106	0.377000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCVLL Limits: 50 - 150 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 17:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/13/25 17:48
Analytical Method:	6010D	**Analytical Run:**	031325ICP16B
Concentration Units:	mg/l		

	ICV				ICVLL				CCV			
Sample ID:	ICP160313251750				ICP160313251814				ICP160313252352			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ALUMINUM	10	9.970105	99.70	0.603000	0.20	0.1888743	94.40	2.270000	10	10.13284	101	0.827000
ANTIMONY	1	1.026768	103	0.646000	0.01	0.01156152	116	23.300000	0.50	0.5292177	106	0.458000
ARSENIC	1	1.01494	101	0.716000	0.01	0.01049154	105	55.700000	1	1.039895	104	1.050000
BARIUM	1	1.02854	103	0.697000	0.0050	0.004838548	96.80	3.190000	0.50	0.5332045	107	1.310000
BERYLLIUM	1	0.9964878	99.60	0.243000	0.0020	0.002028097	101	1.550000	0.20	0.2092744	105	0.634000
BORON	1	0.9865305	98.70	0.521000	0.20	0.1963639	98.20	3.800000	1	1.032737	103	0.846000
CADMIUM	1	1.025066	103	0.894000	0.0020	0.002210231	111	53.900000	0.50	0.5241433	105	1.650000
CALCIUM	10	10.13691	101	0.102000	1	1.021706	102	0.770000	50	53.62735	107	0.361000
CHROMIUM	1	1.000183	100	0.624000	0.01	0.009770098	97.70	11.400000	1	1.050904	105	1.400000
COBALT	1	0.9548108	95.50	0.548000	0.01	0.008839464	88.40	7.280000	1	1.016704	102	0.798000
COPPER	1	1.040772	104	0.269000	0.01	0.01043548	104	5.980000	1	1.066496	107	0.492000
IRON	10	10.19171	102	1.350000	0.10	0.09739186	97.40	1.640000	10	10.50177	105	0.825000
LEAD	1	0.9939906	99.40	0.587000	0.0050	0.004472836	89.50	16.200000	0.50	0.5208258	104	1.880000
LITHIUM	1	0.9208975	92.10	2.430000	0.0150	0.01713338	114	8.090000	1	0.9577515	95.80	0.520000
MAGNESIUM	10	10.18417	102	0.437000	1	1.014167	101	2.020000	10	10.43439	104	1.090000
MANGANESE	1	1.003855	100	0.837000	0.01	0.009573184	95.70	0.908000	1	1.054369	105	0.747000
MOLYBDENUM	1	1.054483	105	0.888000	0.0050	0.004074169	81.50	47.600000	0.25	0.2651829	106	1.490000
NICKEL	1	0.9595401	96	0.098300	0.01	0.008195967	82	4.470000	1	1.015036	102	0.265000
PHOSPHORUS	1	1.00737	101	1.370000	0.10	0.09792157	97.90	4.290000	1	1.032875	103	1.250000
POTASSIUM	10	10.50336	105	0.912000	1	1.093836	109	0.424000	50	51.65948	103	0.299000
SELENIUM	1	0.9914772	99.10	0.868000	0.01	0.009196919	92	98.900000	1	1.032394	103	0.937000
SILICON	1	0.9990605	99.90	0.702000	0.20	0.1914235	95.70	0.586000	2	2.094623	105	1.120000
SILVER	1	0.9990674	99.90	0.671000	0.0050	0.005064468	101	9.770000	0.50	0.5854621	117	0.435000
SODIUM	10	10.30219	103	0.129000	1	1.081699	108	2.000000	50	49.54409	99.10	0.671000
STRONTIUM	0.40	0.4089356	102	1.470000	0.01	0.01049771	105	1.210000	1	1.044871	104	0.554000
SULFUR	10	9.82426	98.20	1.020000	1	1.009883	101	2.330000	5	5.118982	102	0.357000
THALLIUM	1	1.051467	105	0.556000	0.01	0.01041173	104	12.700000	1	1.065776	107	0.730000
TIN	1	0.9944956	99.40	0.385000	0.05	0.04936841	98.70	4.260000	0.50	0.5200307	104	0.978000
TITANIUM	1	1.010937	101	0.140000	0.05	0.05127399	103	1.420000	1	1.050857	105	1.010000
VANADIUM	1	0.9959103	99.60	0.659000	0.02	0.01899172	95	4.480000	1	1.041302	104	1.010000
ZINC	1	0.9913941	99.10	0.911000	0.05	0.05172555	103	1.160000	1	1.018381	102	1.740000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 17:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/13/25 17:48
Analytical Method:	6010D	**Analytical Run:**	031325ICP16B
Concentration Units:	mg/l		

CCV

Sample ID: ICP160314250012

Analyte	True	Found	%R	%RSD
ALUMINUM	10	9.941183	99.40	0.345000
ANTIMONY	0.50	0.5087391	102	1.800000
ARSENIC	1	1.012141	101	1.790000
BARIUM	0.50	0.52164	104	1.670000
BERYLLIUM	0.20	0.2051274	103	0.186000
BORON	1	1.00773	101	0.744000
CADMIUM	0.50	0.5153252	103	1.730000
CALCIUM	50	52.59548	105	0.390000
CHROMIUM	1	1.025471	103	1.590000
COBALT	1	0.9960075	99.60	0.385000
COPPER	1	1.044619	104	0.265000
IRON	10	10.25041	103	0.661000
LEAD	0.50	0.510909	102	0.983000
LITHIUM	1	0.9413813	94.10	1.450000
MAGNESIUM	10	10.20089	102	0.289000
MANGANESE	1	1.030588	103	1.110000
MOLYBDENUM	0.25	0.2611257	104	1.920000
NICKEL	1	0.9915083	99.20	0.285000
PHOSPHORUS	1	1.015461	102	1.170000
POTASSIUM	50	50.66009	101	0.344000
SELENIUM	1	1.007698	101	0.810000
SILICON	2	2.063523	103	1.930000
SILVER	0.50	0.5665798	113	1.740000
SODIUM	50	48.31111	96.60	1.080000
STRONTIUM	1	1.022516	102	0.860000
SULFUR	5	4.950128	99	0.841000
THALLIUM	1	1.052105	105	0.718000
TIN	0.50	0.5037791	101	0.733000
TITANIUM	1	1.013463	101	0.865000
VANADIUM	1	1.017264	102	0.185000
ZINC	1	1.027571	103	3.710000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250313083414-2		20250313171019		20250313173413		20250313180539	
Analyte	mg/l		mg/l		mg/kg		mg/l	
ARSENIC	0.0008989357	U	0.002772932	U	U		0.0006663788	U
BARIUM	-0.0002320136	U	0.0005924334	U	U		0.003094214	U
BORON	-0.008037301	U	0.002043896	U	U		0.0007906601	U
CADMIUM	0.00009738354	U	0.0009722503	U	U		0.0009593633	U
CHROMIUM	-0.00004709599	U	0.0002145351	U	U		0.0001778839	U
COBALT	0.000001996109	U	0.001848123	U	U		0.001684798	U
LEAD	0.0007511455	U	0.001257667	U	U		0.001133411	U
LITHIUM	-0.001407685	U	-0.0009142232	U	U		0.001025566	U
SELENIUM	0.003421926	U	0.0004931436	U	U		-0.0008783576	U
SILVER	-0.0005324745	U	-0.00005247332	U	U		0.00001901755	U

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20250313183124	
Analyte	mg/l	
ARSENIC	0.003533504	U
BARIUM	0.0006477062	U
BORON	-0.001822929	U
CADMIUM	0.0007014468	U
CHROMIUM	0.000003429852	U
COBALT	0.001220199	U
LEAD	0.001341407	U
LITHIUM	0.001362755	U
SELENIUM	0.000546184	U
SILVER	-0.000007542009	U

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 08:13
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/13/25 08:29
Analytical Method:	6010D	**Analytical Run:**	031325ICP14A

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250313084055-3		20250313203542		20250313203833		20250313210758	
Analyte	mg/l		mg/l		mg/kg		mg/l	
ARSENIC	-0.001875976	U	-0.00135061	U	U		-0.002112366	U
BARIUM	0.0002777608	U	0.00009901511	U	U		0.0003906049	U
BORON	-0.002321004	U	-0.003576498	U	U		-0.008213209	U
CADMIUM	-0.0001404255	U	-0.0003184146	U	U		-0.0002949228	U
CHROMIUM	0.0002859605	U	0.0005380922	U	U		0.0003764305	U
COBALT	0.0002125518	U	0.0002925075	U	U		0.0002945602	U
LEAD	-0.00003950751	U	-0.0008022683	U	U		-0.0007180431	U
LITHIUM	-0.001752249	U	-0.002916308	U	U		-0.000231741	U
SELENIUM	0.001853984	U	0.0004707467	U	U		-0.001384804	U
SILVER	-0.0003094661	U	-0.0001642513	U	U		0.0002097963	U

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 08:13
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/13/25 08:29
Analytical Method:	6010D	**Analytical Run:**	031325ICP14A

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20250313214042	
Analyte	mg/l	
ARSENIC	0.001235658	U
BARIUM	0.000289228	U
BORON	-0.02814215	U
CADMIUM	-0.000156472	U
CHROMIUM	0.0006807682	U
COBALT	0.0003328392	U
LEAD	-0.000367046	U
LITHIUM	-0.0002545556	U
SELENIUM	0.0003609371	U
SILVER	-0.0007434195	U

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 17:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/13/25 17:48
Analytical Method:	6010D	**Analytical Run:**	031325ICP16B

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250313180930		20250313235358		20250314001413	
Analyte	mg/l		mg/l		mg/l	
ALUMINUM	-0.02202056	U	0.01011288	U	-0.006048051	U
ANTIMONY	0.001182981	U	-0.0004886115	U	0.003211724	U
ARSENIC	-0.003261422	U	0.006244208	U	0.002525928	U
BARIUM	-0.0003480278	U	0.0002314003	U	0.0004918976	U
BERYLLIUM	0.0001429863	U	0.0002213967	U	0.0001595916	U
BORON	0.0008920202	U	0.002913002	U	0.003051158	U
CADMIUM	0.0003424721	U	-0.00004190084	U	-0.00008997175	U
CALCIUM	-0.003118587	U	0.004675138	U	-0.0006865107	U
CERIUM	0.01521997	U	0.0006531242	U	-0.05012807	U
CHROMIUM	0.0002046416	U	0.001672197	U	0.000817838	U
COBALT	-0.00008862529	U	-0.001210399	U	0.0006519285	U
COPPER	0.0002535425	U	0.00118298	U	0.000618907	U
IRON	-0.004525332	U	-0.0001867988	U	-0.005357567	U
LANTHANUM	-0.002604309	U	0.0009294979	U	-0.00214107	U
LEAD	0.001321969	U	0.001854098	U	0.0004376512	U
LITHIUM	0.0009344162	U	0.005349468	U	-0.002237948	U
MAGNESIUM	0.01178167	U	0.01414604	U	0.00616379	U
MANGANESE	-0.000152568	U	0.0005913964	U	0.0002974091	U
MOLYBDENUM	0.0005302676	U	0.002304975	U	0.002465203	U
NICKEL	-0.0002559856	U	0.0006227277	U	0.0005303352	U
PHOSPHORUS	-0.004995431	U	-0.004366039	U	0.0009987988	U
POTASSIUM	0.05563725	U	0.0640586	U	0.1113015	U
SELENIUM	0.0008992107	U	-0.0002335993	U	0.007569982	U
SILICON	-0.001447787	U	0.001069122	U	0.005283772	U
SILVER	-0.0005251804	U	0.0002552986	U	-0.0004344168	U
SODIUM	0.003636879	U	0.3175261	U	0.243861	U
STRONTIUM	-0.00006605116	U	-0.0001744219	U	0.00002565167	U
SULFUR	-0.001810277	U	0.04962444	U	0.02486186	U
THALLIUM	-0.003981628	U	-0.00002496673	U	0.00006934383	U
TIN	-0.001252598	U	-0.0001452664	U	0.0003193169	U
TITANIUM	-0.00090513	U	-0.0009553296	U	0.0006149142	U
VANADIUM	0.001292965	U	0.0005210024	U	-0.000328921	U
ZINC	-0.00007977445	U	-0.00002632366	U	-0.0004158375	U

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP13	**Date:**	03/13/25 08:45
Instrument Run:	031325ICP13A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	508.5792	102	500	516.604	103
ANTIMONY	0	-0.004712001		0.50	0.4984244	99.70
ARSENIC	0	-0.005792129		0.50	0.5037884	101
BARIUM	0	0.002101114		0.50	0.513467	103
BERYLLIUM	0	-0.0001429453		0.50	0.5049913	101
BORON	0	-0.02507207		1	0.9866664	98.70
CADMIUM	0	0.001105337		1	1.041803	104
CALCIUM	500	504.7244	101	500	513.14	103
CERIUM	0	-0.03537677		0	-0.07318607	
CHROMIUM	0	-0.002977348		0.50	0.4957426	99.10
COBALT	0	0.001209249		0.50	0.5005466	100
COPPER	0	-0.01384132		0.50	0.527683	106
HOT WATER SOL. BORON	0	-0.02507207		0	0.9866664	
IRON	200	199.7435	99.90	200	203.4645	102
LANTHANUM	0	-0.01093232		0	-0.01236836	
LEAD	0	-0.008900102		1	0.9696765	97
LITHIUM	0	0.0009581725		0	-0.000064753	
MAGNESIUM	500	506.8968	101	500	516.8698	103
MANGANESE	0	0.001630883		0.50	0.5077575	102
MOLYBDENUM	0	-0.0001039387		0.50	0.4986634	99.70
NICKEL	0	-0.009421016		1	0.9744007	97.40
PHOSPHORUS	0	0.008440357		0	0.009401956	
POTASSIUM	0	-0.02413408		0	0.05399752	
SELENIUM	0	-0.000002577646		0.50	0.5327401	107
SILICON	0	-0.02774185		1	0.9665964	96.70
SILVER	0	-0.001051698		1	0.9181975	91.80
SODIUM	0	0.0234708		0	0.08665133	
STRONTIUM	0	0.006198191		0	0.006301611	
SULFUR	0	-0.178825		0	-0.1847989	
THALLIUM	0	-0.01159576		0.50	0.4554221	91.10
TIN	0	-0.007612868		0.50	0.4762115	95.20
TITANIUM	0	-0.01382504		0.50	0.4887735	97.80
VANADIUM	0	-0.006042197		0.50	0.4775126	95.50
ZINC	0	0.003288463		1	0.970504	97.10

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP13	**Date:**	03/13/25 13:48
Instrument Run:	031325ICP13A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	508.5764	102	500	517.3846	103
ANTIMONY	0	-0.001049451		0.50	0.4950657	99
ARSENIC	0	-0.006348813		0.50	0.4924311	98.50
BARIUM	0	0.002177823		0.50	0.5123907	102
BERYLLIUM	0	0.00001444088		0.50	0.5060175	101
BORON	0	-0.02208973		1	0.975127	97.50
CADMIUM	0	0.0007240974		1	1.04126	104
CALCIUM	500	504.53	101	500	515.1403	103
CERIUM	0	-0.09502639		0	-0.05004783	
CHROMIUM	0	-0.002886483		0.50	0.5025593	101
COBALT	0	0.0016765		0.50	0.4963475	99.30
COPPER	0	-0.01338605		0.50	0.5287814	106
HOT WATER SOL. BORON	0	-0.02208973		0	0.975127	
IRON	200	197.4968	98.70	200	201.671	101
LANTHANUM	0	-0.01264845		0	-0.01182209	
LEAD	0	-0.01138247		1	0.9709681	97.10
LITHIUM	0	0.001192217		0	0.001032958	
MAGNESIUM	500	503.9371	101	500	518.0682	104
MANGANESE	0	0.001789873		0.50	0.505316	101
MOLYBDENUM	0	0.001915019		0.50	0.4963258	99.30
NICKEL	0	-0.009958574		1	0.9715937	97.20
PHOSPHORUS	0	0.01414468		0	0.01272536	
POTASSIUM	0	0.0004250671		0	0.007049724	
SELENIUM	0	0.03230963		0.50	0.5138425	103
SILICON	0	-0.02503344		1	0.9645136	96.50
SILVER	0	-0.0003269706		1	0.9166392	91.70
SODIUM	0	0.05445837		0	0.07660769	
STRONTIUM	0	0.006222723		0	0.006538643	
SULFUR	0	-0.1675301		0	-0.1844321	
THALLIUM	0	-0.009840639		0.50	0.4553938	91.10
TIN	0	-0.00317589		0.50	0.4713137	94.30
TITANIUM	0	-0.01276186		0.50	0.4884564	97.70
VANADIUM	0	-0.0087304		0.50	0.4768964	95.40
ZINC	0	0.01254922		1	0.9609054	96.10

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP13	**Date:**	03/13/25 22:18
Instrument Run:	031325ICP13A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	505.3351	101	500	518.0715	104
ANTIMONY	0	-0.0006532052		0.50	0.5010112	100
ARSENIC	0	-0.01629296		0.50	0.4947538	99
BARIUM	0	0.002632681		0.50	0.5170239	103
BERYLLIUM	0	-0.00003234007		0.50	0.5044189	101
BORON	0	-0.02239664		1	0.9739188	97.40
CADMIUM	0	0.0012687		1	1.047177	105
CALCIUM	500	508.7988	102	500	520.7474	104
CERIUM	0	-0.06648212		0	-0.06664474	
CHROMIUM	0	-0.00355252		0.50	0.5030394	101
COBALT	0	0.001305907		0.50	0.4968771	99.40
COPPER	0	-0.01381373		0.50	0.5356425	107
HOT WATER SOL. BORON	0	-0.02239664		0	0.9739188	
IRON	200	196.4042	98.20	200	200.4381	100
LANTHANUM	0	-0.0148477		0	-0.01459433	
LEAD	0	-0.01088692		1	0.9673739	96.70
LITHIUM	0	0.002375146		0	0.003701386	
MAGNESIUM	500	499.2603	99.90	500	515.916	103
MANGANESE	0	0.001909612		0.50	0.5085306	102
MOLYBDENUM	0	0.001225354		0.50	0.4997893	100
NICKEL	0	-0.009087166		1	0.9665655	96.70
PHOSPHORUS	0	0.01124096		0	0.009155355	
POTASSIUM	0	0.07038555		0	0.03953501	
SELENIUM	0	0.001619454		0.50	0.5016118	100
SILICON	0	-0.02337069		1	0.9778336	97.80
SILVER	0	-0.001317933		1	0.8414113	84.10
SODIUM	0	0.08990557		0	0.07716687	
STRONTIUM	0	0.006247949		0	0.006514523	
SULFUR	0	-0.1724963		0	-0.1742412	
THALLIUM	0	-0.01022461		0.50	0.4636878	92.70
TIN	0	-0.005735181		0.50	0.4714088	94.30
TITANIUM	0	-0.01252206		0.50	0.4919533	98.40
VANADIUM	0	-0.006771888		0.50	0.4762339	95.20
ZINC	0	0.02233576		1	0.9657311	96.60

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP14	**Date:**	03/13/25 08:51
Instrument Run:	031325ICP14A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	505.8717	101	500	513.8815	103
ANTIMONY	0	-0.005466416		0.50	0.4988638	99.80
ARSENIC	0	0.001139897		0.50	0.5041359	101
BARIUM	0	0.001298291		0.50	0.5212525	104
BERYLLIUM	0	-0.0001245223		0.50	0.5064272	101
BORON	0	-0.02798107		1	1.005182	101
CADMIUM	0	0.0001575114		1	1.043064	104
CALCIUM	500	506.7891	101	500	513.114	103
CERIUM	0	-0.2962953		0	-0.3231339	
CHROMIUM	0	0.002002688		0.50	0.5019434	100
COBALT	0	0.002384894		0.50	0.5005004	100
COPPER	0	-0.01243291		0.50	0.5205022	104
HOT WATER SOL. BORON	0	-0.02798107		0	1.005182	
IRON	200	199.9638	100	200	202.4802	101
LANTHANUM	0	-0.02067842		0	-0.01562205	
LEAD	0	-0.009410243		1	0.9809731	98.10
LITHIUM	0	0.01792222		0	0.02181825	
MAGNESIUM	500	503.8172	101	500	513.804	103
MANGANESE	0	0.001078903		0.50	0.498653	99.70
MOLYBDENUM	0	0.0005534776		0.50	0.4954251	99.10
NICKEL	0	0.006841724		1	0.9993433	99.90
PHOSPHORUS	0	0.003182705		0	0.009277064	
POTASSIUM	0	-0.4415525		0	-0.3648836	
SELENIUM	0	-0.0004478689		0.50	0.5078043	102
SILICON	0	-0.017582		1	1.002642	100
SILVER	0	-0.002276071		1	0.9105994	91.10
SODIUM	0	0.06090622		0	0.1108141	
STRONTIUM	0	0.00762048		0	0.007473202	
SULFUR	0	-0.05265906		0	-0.06128536	
THALLIUM	0	-0.002762727		0.50	0.4892122	97.80
TIN	0	-0.005983992		0.50	0.4800391	96
TITANIUM	0	0.04450543		0.50	0.5440317	109
VANADIUM	0	-0.03180261		0.50	0.4623106	92.50
ZINC	0	0.006131912		1	0.9583516	95.80

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP14	**Date:**	03/13/25 14:13
Instrument Run:	031325ICP14A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	503.9594	101	500	515.4046	103
ANTIMONY	0	-0.006862591		0.50	0.5036153	101
ARSENIC	0	-0.001014062		0.50	0.5122236	102
BARIUM	0	0.001375353		0.50	0.5256077	105
BERYLLIUM	0	-0.0002049214		0.50	0.5064883	101
BORON	0	-0.02147178		1	0.9599478	96
CADMIUM	0	0.0001396263		1	1.046921	105
CALCIUM	500	500.2065	100	500	509.9285	102
CERIUM	0	-0.2781138		0	-0.1998629	
CHROMIUM	0	0.002084932		0.50	0.486518	97.30
COBALT	0	0.002392778		0.50	0.497932	99.60
COPPER	0	-0.01379134		0.50	0.5214505	104
HOT WATER SOL. BORON	0	-0.02147178		0	0.9599478	
IRON	200	198.3411	99.20	200	200.4872	100
LANTHANUM	0	-0.01611279		0	-0.01645687	
LEAD	0	-0.006353931		1	0.9890836	98.90
LITHIUM	0	0.01700187		0	0.01940241	
MAGNESIUM	500	500.5858	100	500	511.6469	102
MANGANESE	0	0.001148017		0.50	0.4964458	99.30
MOLYBDENUM	0	-0.0004863827		0.50	0.4947882	99
NICKEL	0	0.006242526		1	0.990387	99
PHOSPHORUS	0	0.009978296		0	0.00371568	
POTASSIUM	0	-0.5016629		0	-0.4375447	
SELENIUM	0	0.006004459		0.50	0.4881932	97.60
SILICON	0	-0.01150176		1	0.9815008	98.20
SILVER	0	-0.002184993		1	0.9236359	92.40
SODIUM	0	0.03917493		0	0.1116074	
STRONTIUM	0	0.007420278		0	0.007537417	
SULFUR	0	-0.05110377		0	-0.04493801	
THALLIUM	0	-0.005572646		0.50	0.5116879	102
TIN	0	-0.004177408		0.50	0.4776641	95.50
TITANIUM	0	0.04478366		0.50	0.5444666	109
VANADIUM	0	-0.02825639		0.50	0.4574293	91.50
ZINC	0	0.0163347		1	0.9756699	97.60

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP14	**Date:**	03/13/25 22:02
Instrument Run:	031325ICP14A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	497.6615	99.50	500	503.7733	101
ANTIMONY	0	-0.005276105		0.50	0.5058383	101
ARSENIC	0	-0.00480274		0.50	0.5099793	102
BARIUM	0	0.001183801		0.50	0.5287395	106
BERYLLIUM	0	-0.000154034		0.50	0.4951662	99
BORON	0	-0.02678649		1	0.9568297	95.70
CADMIUM	0	0.0001708045		1	1.05058	105
CALCIUM	500	504.4829	101	500	509.3111	102
CERIUM	0	-0.3562627		0	-0.2442476	
CHROMIUM	0	0.001405355		0.50	0.5045795	101
COBALT	0	0.002660062		0.50	0.4905175	98.10
COPPER	0	-0.0157936		0.50	0.5254486	105
HOT WATER SOL. BORON	0	-0.02678649		0	0.9568297	
IRON	200	194.0708	97	200	193.21	96.60
LANTHANUM	0	-0.01324557		0	-0.01411689	
LEAD	0	-0.009519836		1	0.9693822	96.90
LITHIUM	0	0.01713941		0	0.01931744	
MAGNESIUM	500	486.7126	97.30	500	493.792	98.80
MANGANESE	0	0.001265844		0.50	0.5035105	101
MOLYBDENUM	0	0.0002524458		0.50	0.5044415	101
NICKEL	0	0.005886226		1	0.9840526	98.40
PHOSPHORUS	0	0.007115582		0	0.004627192	
POTASSIUM	0	-0.4253223		0	-0.3932453	
SELENIUM	0	-0.002316401		0.50	0.4967103	99.30
SILICON	0	-0.01360823		1	1.01201	101
SILVER	0	-0.002689109		1	0.8584361	85.80
SODIUM	0	0.3203		0	0.3795615	
STRONTIUM	0	0.007500708		0	0.007719905	
SULFUR	0	-0.01995209		0	-0.01507326	
THALLIUM	0	-0.002849289		0.50	0.4943942	98.90
TIN	0	-0.001939024		0.50	0.4927251	98.50
TITANIUM	0	0.04443315		0.50	0.5463244	109
VANADIUM	0	-0.036739		0.50	0.4430612	88.60
ZINC	0	0.01942238		1	0.9656913	96.60

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/13/25 18:16
Instrument Run:	031325ICP16B		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	507.3335	101	500	517.0842	103
ANTIMONY	0	-0.005890703		0.50	0.4807326	96.10
ARSENIC	0	-0.009513342		0.50	0.4653397	93.10
BARIUM	0	0.002252917		0.50	0.4960586	99.20
BERYLLIUM	0	0.0001243718		0.50	0.5099084	102
BORON	0	-0.0329902		1	0.9858218	98.60
CADMIUM	0	-0.000817031		1	0.9745325	97.50
CALCIUM	500	512.3176	102	500	521.3464	104
CERIUM	0	0.04977146		0	0.0588245	
CHROMIUM	0	0.0001795543		0.50	0.4862302	97.20
COBALT	0	0.002089288		0.50	0.5309577	106
COPPER	0	-0.001550748		0.50	0.5036999	101
IRON	200	202.9875	101	200	204.9151	102
LANTHANUM	0	-0.003994538		0	-0.007028779	
LEAD	0	-0.004154933		1	1.024564	102
LITHIUM	0	0.0002403442		0	0.0006370839	
MAGNESIUM	500	512.4604	102	500	521.0409	104
MANGANESE	0	-0.007033046		0.50	0.4940664	98.80
MOLYBDENUM	0	0.004714455		0.50	0.4614623	92.30
NICKEL	0	0.002193265		1	1.041618	104
PHOSPHORUS	0	-0.005409319		0	-0.008973878	
POTASSIUM	0	0.08099175		0	0.130027	
SELENIUM	0	-0.008969787		0.50	0.4778746	95.60
SILICON	0	-0.00647215		1	0.9267692	92.70
SILVER	0	0.003737118		1	1.081434	108
SODIUM	0	0.06913038		0	0.119657	
STRONTIUM	0	0.007425342		0	0.007145521	
SULFUR	0	0.009211639		0	0.004459201	
THALLIUM	0	-0.002304823		0.50	0.5019606	100
TIN	0	0.001516685		0.50	0.5125422	103
TITANIUM	0	-0.00368556		0.50	0.4976848	99.50
VANADIUM	0	0.001995062		0.50	0.4938758	98.80
ZINC	0	0.04648271		1	0.947478	94.70

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/14/25 01:11
Instrument Run:	031325ICP16B		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	524.8985	105	500	530.8171	106
ANTIMONY	0	-0.006535436		0.50	0.4867599	97.40
ARSENIC	0	-0.007273179		0.50	0.4811975	96.20
BARIUM	0	0.00243814		0.50	0.5073921	101
BERYLLIUM	0	0.0000745388		0.50	0.5268507	105
BORON	0	-0.0360474		1	1.004826	100
CADMIUM	0	-0.000266658		1	0.9973962	99.70
CALCIUM	500	528.9629	106	500	535.157	107
CERIUM	0	0.01250357		0	-0.005784551	
CHROMIUM	0	0.0004314338		0.50	0.4980678	99.60
COBALT	0	0.002879864		0.50	0.5457743	109
COPPER	0	-0.001356644		0.50	0.520148	104
IRON	200	206.7908	103	200	206.8235	103
LANTHANUM	0	-0.0003717154		0	-0.008218972	
LEAD	0	-0.00163771		1	1.053114	105
LITHIUM	0	-0.003709644		0	-0.006064563	
MAGNESIUM	500	527.2606	105	500	532.3138	106
MANGANESE	0	-0.006395482		0.50	0.5050902	101
MOLYBDENUM	0	0.004035299		0.50	0.4766264	95.30
NICKEL	0	0.002522533		1	1.071468	107
PHOSPHORUS	0	-0.00638303		0	-0.007031324	
POTASSIUM	0	0.2539778		0	0.3221713	
SELENIUM	0	-0.009345488		0.50	0.4846693	96.90
SILICON	0	-0.009073334		1	0.9477985	94.80
SILVER	0	0.006084927		1	1.031265	103
SODIUM	0	0.3615137		0	0.3856778	
STRONTIUM	0	0.007063311		0	0.007308409	
SULFUR	0	0.0212701		0	0.0250261	
THALLIUM	0	-0.00810735		0.50	0.5177193	104
TIN	0	0.002661944		0.50	0.5258918	105
TITANIUM	0	-0.00431072		0.50	0.517116	103
VANADIUM	0	0.002147975		0.50	0.5080595	102
ZINC	0	0.05267255		1	0.9569459	95.70

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834664-01,02,03,04,11

SAMPLE NO.:
R4186271-5
R4186271-6

MS Sample / File ID: R4186271-5 / 20250313205133
MSD Sample / File ID: R4186271-6 / 20250313205404
OS Sample / File ID: L1835075-03 / 20250313204346
Instrument ID: ICP14
Analytical Method: 6010D

SDG: L1834664
Analytical Batch: WG2467988
Matrix: Solid

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	100	3.31	89.5	96.6	86.2	93.3	1	75.0 - 125	7.61	20
Barium	100	304	499	459	195*	156*	1	75.0 - 125	8.21	20
Boron	100	U	80.1	89.7	80.1	89.7	1	75.0 - 125	11.3	20
Cadmium	100	0.133	86.8	93.6	86.7	93.4	1	75.0 - 125	7.46	20
Chromium	100	12.6	99.3	105	86.7	92.3	1	75.0 - 125	5.47	20
Cobalt	100	5.38	90.3	96.5	85.0	91.1	1	75.0 - 125	6.62	20
Lead	100	12.7	98.1	105	85.3	92.2	1	75.0 - 125	6.73	20
Lithium	100	9.41	97.0	105	87.6	95.2	1	75.0 - 125	7.57	20
Selenium	100	U	85.3	90.7	85.3	90.7	1	75.0 - 125	6.21	20
Silver	20.0	U	18.2	19.6	91.0	98.1	1	75.0 - 125	7.49	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834664-05,06,07,08,09,10

SAMPLE NO.:
R4186391-5
R4186391-6

MS Sample / File ID: R4186391-5 / 20250313174758
MSD Sample / File ID: R4186391-6 / 20250313175047
OS Sample / File ID: L1834825-01 / 20250313173941
Instrument ID: ICP13
Analytical Method: 6010D

SDG: L1834664
Analytical Batch: WG2468048
Matrix: Solid

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	100	2.01	102	98.1	100	96.1	1	75.0 - 125	4.14	20
Barium	100	107	214	212	107	105	1	75.0 - 125	1.24	20
Boron	100	U	98.8	97.0	98.8	97.0	1	75.0 - 125	1.85	20
Cadmium	100	0.188	98.7	96.4	98.5	96.2	1	75.0 - 125	2.39	20
Chromium	100	21.9	126	123	104	102	1	75.0 - 125	2.04	20
Cobalt	100	5.56	107	105	101	99.0	1	75.0 - 125	2.07	20
Lead	100	15.3	114	112	98.9	96.3	1	75.0 - 125	2.24	20
Lithium	100	12.6	119	117	107	104	1	75.0 - 125	1.91	20
Selenium	100	U	94.5	92.4	94.5	92.4	1	75.0 - 125	2.20	20
Silver	20.0	U	19.4	18.8	97.2	94.1	1	75.0 - 125	3.24	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1834664-01,02,03,04,11

PS Sample / File ID:	R4186271-4 / 20250313204902	**SDG:**	L1834664
OS Sample / File ID:	L1835075-03 / 20250313204346	**Analytical Batch:**	WG2467988
Instrument ID:	ICP14	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	OS Result	PD Result	DS Result	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Arsenic	100	3.31	101		98.2		1	80.0 - 120		
Barium	100	304	394		90.4		1	80.0 - 120		
Boron	100	U	92.8		92.8		1	80.0 - 120		
Cadmium	100	0.133	96.5		96.4		1	80.0 - 120		
Chromium	100	12.6	110		97.8		1	80.0 - 120		
Cobalt	100	5.38	101		95.3		1	80.0 - 120		
Lead	100	12.7	109		96.0		1	80.0 - 120		
Lithium	100	9.41	109		99.6		1	80.0 - 120		
Selenium	100	U	95.2		95.2		1	80.0 - 120		
Silver	20.0	U	20.2		101		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1834664-01,02,03,04,11

PS Sample / File ID:	R4186330-5 / 20250314000223	**SDG:**	L1834664
OS Sample / File ID:	L1835075-01 / 20250313235902	**Analytical Batch:**	WG2467988
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	OS Result	PD Result	DS Result	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Arsenic	100	2.03	105		103		1	80.0 - 120		
Barium	100	90.5	197		107		1	80.0 - 120		
Boron	100	U	99.8		99.8		1	80.0 - 120		
Cadmium	100	0.282	101		101		1	80.0 - 120		
Chromium	100	6.44	107		101		1	80.0 - 120		
Cobalt	100	3.97	106		102		1	80.0 - 120		
Lead	100	8.84	113		104		1	80.0 - 120		
Lithium	100	3.35	103		99.7		1	80.0 - 120		
Selenium	100	U	97.6		97.6		1	80.0 - 120		
Silver	20.0	0.190	20.7		103		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1834664-05,06,07,08,09,10

SAMPLE NO.: R4186391-4

PS Sample / File ID:	R4186391-4 / 20250313174519	**SDG:**	L1834664
OS Sample / File ID:	L1834825-01 / 20250313173941	**Analytical Batch:**	WG2468048
Instrument ID:	ICP13	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	OS Result	PD Result	DS Result	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Arsenic	100	2.01	98.7		96.7		1	80.0 - 120		
Barium	100	107	205		98.3		1	80.0 - 120		
Boron	100	U	97.4		97.4		1	80.0 - 120		
Cadmium	100	0.188	95.6		95.4		1	80.0 - 120		
Chromium	100	21.9	121		99.4		1	80.0 - 120		
Cobalt	100	5.56	103		97.7		1	80.0 - 120		
Lead	100	15.3	113		97.5		1	80.0 - 120		
Lithium	100	12.6	114		101		1	80.0 - 120		
Selenium	100	U	93.5		93.5		1	80.0 - 120		
Silver	20.0	U	18.6		93.0		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1834664-01,02,03,04,11

SAMPLE NO.:
R4186271-2

LCS Sample / File ID:	R4186271-2 / 20250313204106	**SDG:**	L1834664
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467988
Instrument ID:	ICP14	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Arsenic	100	95.5		95.5		80.0 - 120		
Barium	100	101		101		80.0 - 120		
Boron	100	91.5		91.5		80.0 - 120		
Cadmium	100	94.4		94.4		80.0 - 120		
Chromium	100	98.2		98.2		80.0 - 120		
Cobalt	100	91.2		91.2		80.0 - 120		
Lead	100	92.5		92.5		80.0 - 120		
Lithium	100	96.9		96.9		80.0 - 120		
Selenium	100	92.4		92.4		80.0 - 120		
Silver	20.0	19.5		97.5		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1834664-05,06,07,08,09,10

SAMPLE NO.: R4186391-2

LCS Sample / File ID:	R4186391-2 / 20250313173654	**SDG:**	L1834664
LCSD Sample / File ID:		**Analytical Batch:**	WG2468048
Instrument ID:	ICP13	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Arsenic	100	103		103		80.0 - 120		
Barium	100	110		110		80.0 - 120		
Boron	100	100		100		80.0 - 120		
Cadmium	100	101		101		80.0 - 120		
Chromium	100	111		111		80.0 - 120		
Cobalt	100	99.8		99.8		80.0 - 120		
Lead	100	99.9		99.9		80.0 - 120		
Lithium	100	108		108		80.0 - 120		
Selenium	100	101		101		80.0 - 120		
Silver	20.0	20.2		101		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4186271-3 / 20250313204631	**SDG:**	L1834664
OS Sample / File ID:	L1835075-03 / 20250313204346	**Analytical Batch:**	WG2467988
Lab File ID:	20250313204631	**Dilution Factor:**	5
Instrument ID:	ICP14	**Matrix:**	Solid
Analytical Method:	6010D		

Analyte	OS Result	SD Result	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Arsenic	3.31	U	0.000	10
Barium	304	351	15.6*	10
Boron	U	U	0.000	10
Cadmium	0.133	U	0.000	10
Chromium	12.6	13.1	3.69	10
Cobalt	5.38	5.17	3.88	10
Lead	12.7	11.9	6.61	10
Lithium	9.41	9.16	2.65	10
Selenium	U	U	0.000	10
Silver	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4186330-4 / 20250314000043	**SDG:**	L1834664
OS Sample / File ID:	L1835075-01 / 20250313235902	**Analytical Batch:**	WG2467988
Lab File ID:	20250314000043	**Dilution Factor:**	5
Instrument ID:	ICP16	**Matrix:**	Solid
Analytical Method:	6010D		

Analyte	OS Result	SD Result	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Arsenic	2.03	U	0.000	10
Barium	90.5	93.7	3.50	10
Boron	U	U	0.000	10
Cadmium	0.282	0.365	0.000	10
Chromium	6.44	6.62	2.80	10
Cobalt	3.97	3.17	20.1	10
Lead	8.84	8.48	4.13	10
Lithium	3.35	3.89	16.2	10
Selenium	U	U	0.000	10
Silver	0.190	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4186391-3 / 20250313174231	**SDG:**	L1834664
OS Sample / File ID:	L1834825-01 / 20250313173941	**Analytical Batch:**	WG2468048
Lab File ID:	20250313174231	**Dilution Factor:**	5
Instrument ID:	ICP13	**Matrix:**	Solid
Analytical Method:	6010D		

Analyte	OS Result	SD Result	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Arsenic	2.01	U	0.000	10
Barium	107	103	4.36	10
Boron	U	U	0.000	10
Cadmium	0.188	U	0.000	10
Chromium	21.9	20.7	5.45	10
Cobalt	5.56	4.77	14.2	10
Lead	15.3	14.8	3.21	10
Lithium	12.6	11.6	8.02	10
Selenium	U	U	0.000	10
Silver	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1834664-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 6010D
Matrix: Solid **Prep Method:** 3050B

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Cobalt	7440-48-4	177.4950	228.6160	0.1770	1
Lead	7439-92-1	177.4950	220.3530	0.3260	0.50
Lithium	7439-93-2	177.4950	670.7840	0.4050	5
Selenium	7782-49-2	177.4950	196.09	1.07	2
Silver	7440-22-4	177.4950	328.0680	0.1270	1
Arsenic	7440-38-2	177.4950	189.0420	0.8370	2
Barium	7440-39-3	177.4950	233.5270	0.0850	0.50
Boron	7440-42-8	177.4950	249.6780	4.50	20
Cadmium	7440-43-9	177.4950	228.8020	0.0653	0.50
Chromium	7440-47-3	177.4950	267.7160	0.2140	1

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L1834664 **Analytical Method:** 6010D

Instrument ID: ICP13 **Date:** 07/28/23 07:16

Analyte	Wavelength	ARSENIC	CERIUM	CHROMIUM	COBALT	COPPER	IRON	LANTHANUM
	nm	189.0420	535.3530	267.7160	228.6160	324.7540	271.4410	333.7490
ALUMINUM	308.2150							
ANTIMONY	206.8330			-0.00043260				
ARSENIC	189.0420							-0.00532076
BERYLLIUM	313.0420							
CADMIUM	228.8020	-0.15291673						
COBALT	228.6160							
LEAD	220.3530		-0.00035078			-0.00001401	-0.00041235	0.00000145
NICKEL	231.6040						-0.00098060	
PHOSPHORUS	177.4950							
THALLIUM	190.8560				-0.00008407			
TITANIUM	334.9410			-0.00012044				

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L1834664 **Analytical Method:** 6010D

Instrument ID: ICP13 **Date:** 07/28/23 07:16

Analyte	Wavelength	MAGNESIUM	MANGANESE	MOLYBDENUM	POTASSIUM	SILICON	SULFUR	TITANIUM
	nm	279.0790	257.61	202.03	766.49	251.6110	182.0340	334.9410
ALUMINUM	308.2150			-0.00393995				
ANTIMONY	206.8330	-0.00013070			-0.00001138		-0.00557514	
ARSENIC	189.0420			-0.00023896				
BERYLLIUM	313.0420							
CADMIUM	228.8020							
COBALT	228.6160							-0.00163701
LEAD	220.3530					-0.00003453		
NICKEL	231.6040							
PHOSPHORUS	177.4950					-0.00001698		
THALLIUM	190.8560		-0.00000157	-0.00027950				
TITANIUM	334.9410							

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP13	**Date:**	07/28/23 07:16

Analyte	Wavelength	VANADIUM	ZINC
	nm	292.4020	206.20
ALUMINUM	308.2150		
ANTIMONY	206.8330		-0.00016041
ARSENIC	189.0420		
BERYLLIUM	313.0420	-0.01698239	
CADMIUM	228.8020		
COBALT	228.6160		
LEAD	220.3530		
NICKEL	231.6040		
PHOSPHORUS	177.4950	-0.00005985	
THALLIUM	190.8560		
TITANIUM	334.9410		

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L1834664 **Analytical Method:** 6010D

Instrument ID: ICP14 **Date:** 01/16/23 09:38

Analyte	Wavelength	ARSENIC	CALCIUM	CERIUM	CHROMIUM	COBALT	COPPER	LANTHANUM
	nm	189.0420	373.69	535.3530	267.7160	228.6160	324.7540	333.7490
ALUMINUM	308.2150							
ANTIMONY	206.8330				-0.00015856			
ARSENIC	189.0420							-0.00621426
BERYLLIUM	313.0420							
CADMIUM	228.8020	-0.08940684						
COBALT	228.6160							
LEAD	220.3530			-0.00420725			-0.00001296	
STRONTIUM	421.5520		-0.00160714					
THALLIUM	190.8560					-0.00011278		

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP14	**Date:**	01/16/23 09:38

Analyte	Wavelength	MANGANESE	TITANIUM	VANADIUM
	nm	257.61	334.9410	292.4020
ALUMINUM	308.2150			-0.00554640
ANTIMONY	206.8330			
ARSENIC	189.0420			
BERYLLIUM	313.0420			-0.01066047
CADMIUM	228.8020			
COBALT	228.6160		-0.00141584	
LEAD	220.3530			
STRONTIUM	421.5520			
THALLIUM	190.8560	-0.00000569		

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP13	**Date:**	02/10/25 14:29

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	200
POTASSIUM	500
SELENIUM	10
SILICON	100
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP14	**Date:**	02/09/25 19:27

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	4
POTASSIUM	500
SELENIUM	10
SILICON	50
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP14	**Date:**	03/24/25 08:56

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	4
POTASSIUM	500
SELENIUM	10
SILICON	8
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	02/03/25 09:04

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	200
POTASSIUM	500
SELENIUM	10
SILICON	100
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP13	**Calibration Start Date:**	03/13/25 07:57
Analytical Run:	031325ICP13A	**Calibration End Date:**	03/13/25 08:13

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP130313250754	20250313075411	03/13/25 07:54		
CAL	STD1	20250313075707	03/13/25 07:57		
CAL	STD2	20250313075956	03/13/25 07:59		
CAL	STD3	20250313080241	03/13/25 08:02		
CAL	STD4	20250313080523	03/13/25 08:05		
CAL	STD5	20250313080802	03/13/25 08:08		
CAL	STD6	20250313081055	03/13/25 08:10		
CAL	STD7	20250313081353	03/13/25 08:13		
ICV	ICP130313250817-2	20250313081710-2	03/13/25 08:17		
ICB	ICP130313250834-2	20250313083414-2	03/13/25 08:34		
ICVLL	ICP130313250842-2	20250313084248-2	03/13/25 08:42		
ICSA	ICP130313250845-2	20250313084540-2	03/13/25 08:45		
ICSAB	ICP130313250848-2	20250313084821-2	03/13/25 08:48		
ICSA	ICP130313251348-2	20250313134810-2	03/13/25 13:48		
ICSAB	ICP130313251350-2	20250313135054-2	03/13/25 13:50		
CCV	ICP130313251707	20250313170722	03/13/25 17:07		
CCB	ICP130313251710	20250313171019	03/13/25 17:10		
BLANK	R4186391-1	20250313173413	03/13/25 17:34	1	WG2468048
LCS	R4186391-2	20250313173654	03/13/25 17:36	1	WG2468048
OS	L1834825-01	20250313173941	03/13/25 17:39		
L1834825-01	L1834825-01	20250313173941	03/13/25 17:39	1	WG2468048
SD	R4186391-3	20250313174231	03/13/25 17:42	5	WG2468048
PS	R4186391-4	20250313174519	03/13/25 17:45	1	WG2468048
MS	R4186391-5	20250313174758	03/13/25 17:47	1	WG2468048
MSD	R4186391-6	20250313175047	03/13/25 17:50	1	WG2468048
250_651_S_SO	L1834664-05	20250313175352	03/13/25 17:53	1	WG2468048
DAVIS_SCHOOL_DITCH_S_SO	L1834664-06	20250313175647	03/13/25 17:56	1	WG2468048
DAVIS_SCHOOL_DRAINS_S_SO	L1834664-07	20250313175959	03/13/25 17:59	1	WG2468048
CCV	ICP130313251802	20250313180242	03/13/25 18:02		
CCB	ICP130313251805	20250313180539	03/13/25 18:05		
DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	L1834664-08	20250313180835	03/13/25 18:08	1	WG2468048
DAVIS_SCHOOL_WPLAYGROUND_S_SO	L1834664-09	20250313181130	03/13/25 18:11	1	WG2468048
DAVIS_SCHOOL_TRACK_S_SO	L1834664-10	20250313181427	03/13/25 18:14	1	WG2468048
L1834825-02	L1834825-02	20250313181714	03/13/25 18:17	1	WG2468048
L1834825-03	L1834825-03	20250313182000	03/13/25 18:20	1	WG2468048
L1834825-04	L1834825-04	20250313182247	03/13/25 18:22	1	WG2468048
L1834933-01	L1834933-01	20250313182544	03/13/25 18:25	1	WG2468048
CCV	ICP130313251828	20250313182828	03/13/25 18:28		
CCB	ICP130313251831	20250313183124	03/13/25 18:31		
ICSA	ICP130313252218	20250313221807	03/13/25 22:18		
ICSAB	ICP130313252220	20250313222052	03/13/25 22:20		

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP14	**Calibration Start Date:**	03/13/25 08:13
Analytical Run:	031325ICP14A	**Calibration End Date:**	03/13/25 08:29

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP140313250810	20250313081058	03/13/25 08:10		
CAL	STD1	20250313081347	03/13/25 08:13		
CAL	STD2	20250313081627	03/13/25 08:16		
CAL	STD3	20250313081905	03/13/25 08:19		
CAL	STD4	20250313082142	03/13/25 08:21		
CAL	STD5	20250313082413	03/13/25 08:24		
CAL	STD6	20250313082639	03/13/25 08:26		
CAL	STD7	20250313082931	03/13/25 08:29		
ICV	ICP140313250832-3	20250313083236-3	03/13/25 08:32		
ICB	ICP140313250840-3	20250313084055-3	03/13/25 08:40		
ICVLL	ICP140313250849-3	20250313084909-3	03/13/25 08:49		
ICSA	ICP140313250851-3	20250313085154-3	03/13/25 08:51		
ICSAB	ICP140313250854-3	20250313085426-3	03/13/25 08:54		
CCVLL	ICP140313251344-3	20250313134412-3	03/13/25 13:44		
ICSA	ICP140313251413-3	20250313141321-3	03/13/25 14:13		
ICSAB	ICP140313251415-3	20250313141553-3	03/13/25 14:15		
CCV	ICP140313252032	20250313203251	03/13/25 20:32		
CCB	ICP140313252035	20250313203542	03/13/25 20:35		
BLANK	R4186271-1	20250313203833	03/13/25 20:38	1	WG2467988
LCS	R4186271-2	20250313204106	03/13/25 20:41	1	WG2467988
OS	L1835075-03	20250313204346	03/13/25 20:43		
L1835075-03	L1835075-03	20250313204346	03/13/25 20:43	1	WG2467988
SD	R4186271-3	20250313204631	03/13/25 20:46	5	WG2467988
PS	R4186271-4	20250313204902	03/13/25 20:49	1	WG2467988
MS	R4186271-5	20250313205133	03/13/25 20:51	1	WG2467988
MSD	R4186271-6	20250313205404	03/13/25 20:54	1	WG2467988
MONTROSE_SCHOOL_DITCH_S_SO	L1834664-01	20250313205655	03/13/25 20:56	1	WG2467988
MONTROSE_SCHOOL_DRAINS_S_SO	L1834664-02	20250313205945	03/13/25 20:59	1	WG2467988
650_851_S_SO	L1834664-03	20250313210230	03/13/25 21:02	1	WG2467988
CCV	ICP140313252105	20250313210507	03/13/25 21:05		
CCB	ICP140313252107	20250313210758	03/13/25 21:07		
601_T_S_SO	L1834664-04	20250313211041	03/13/25 21:10	1	WG2467988
DAVIS_SCHOOL_DUP_S_SO	L1834664-11	20250313211324	03/13/25 21:13	1	WG2467988
L1834998-09	L1834998-09	20250313211610	03/13/25 21:16	1	WG2467988
L1835011-01	L1835011-01	20250313211854	03/13/25 21:18	1	WG2467988
L1835011-02	L1835011-02	20250313212135	03/13/25 21:21	1	WG2467988
L1835011-03	L1835011-03	20250313212421	03/13/25 21:24	1	WG2467988
OS	L1835075-01	20250313212703	03/13/25 21:27		
L1835075-01	L1835075-01	20250313212703	03/13/25 21:27	1	WG2467988
L1835075-02	L1835075-02	20250313212944	03/13/25 21:29	1	WG2467988
L1835075-04	L1835075-04	20250313213226	03/13/25 21:32	1	WG2467988
L1835078-01	L1835078-01	20250313213514	03/13/25 21:35	1	WG2467988
CCV	ICP140313252137	20250313213751	03/13/25 21:37		
CCB	ICP140313252140	20250313214042	03/13/25 21:40		
ICSA	ICP140313252202-3	20250313220254-3	03/13/25 22:02		
ICSAB	ICP140313252205-3	20250313220527-3	03/13/25 22:05		

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Calibration Start Date:**	03/13/25 17:38
Analytical Run:	031325ICP16B	**Calibration End Date:**	03/13/25 17:48

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP160313251737	20250313173713	03/13/25 17:37		
CAL	STD1	20250313173851	03/13/25 17:38		
CAL	STD2	20250313174029	03/13/25 17:40		
CAL	STD3	20250313174207	03/13/25 17:42		
CAL	STD4	20250313174345	03/13/25 17:43		
CAL	STD5	20250313174522	03/13/25 17:45		
CAL	STD6	20250313174700	03/13/25 17:47		
CAL	STD7	20250313174838	03/13/25 17:48		
ICV	ICP160313251750	20250313175027	03/13/25 17:50		
ICB	ICP160313251809	20250313180930	03/13/25 18:09		
ICVLL	ICP160313251814	20250313181423	03/13/25 18:14		
ICSA	ICP160313251816	20250313181601	03/13/25 18:16		
ICSAB	ICP160313251817	20250313181739	03/13/25 18:17		
CCV	ICP160313252352	20250313235217	03/13/25 23:52		
CCB	ICP160313252353	20250313235358	03/13/25 23:53		
BLANK	R4186330-2	20250313235541	03/13/25 23:55	1	WG2467988
LCS	R4186330-3	20250313235721	03/13/25 23:57	1	WG2467988
OS	L1835075-01	20250313235902	03/13/25 23:59		
L1835075-01	L1835075-01	20250313235902	03/13/25 23:59	1	WG2467988
SD	R4186330-4	20250314000043	03/14/25 00:00	5	WG2467988
PS	R4186330-5	20250314000223	03/14/25 00:02	1	WG2467988
OS	L1835075-03	20250314000406	03/14/25 00:04		
L1835075-03	L1835075-03	20250314000406	03/14/25 00:04	1	WG2467988
MS	R4186330-6	20250314000548	03/14/25 00:05	1	WG2467988
MSD	R4186330-7	20250314000728	03/14/25 00:07	1	WG2467988
L1835075-02	L1835075-02	20250314000909	03/14/25 00:09	1	WG2467988
L1835075-04	L1835075-04	20250314001051	03/14/25 00:10	1	WG2467988
CCV	ICP160314250012	20250314001232	03/14/25 00:12		
CCB	ICP160314250014	20250314001413	03/14/25 00:14		
ICSA	ICP160314250111	20250314011159	03/14/25 01:11		
ICSAB	ICP160314250113	20250314011340	03/14/25 01:13		

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.009588302	95.90	0.20	.1970021	98.50
BARIUM	0.0050	.005309759	106	0.10	.1047794	105
BORON	0.20	.1935487	96.80			
CADMIUM	0.0020	.002301154	115	0.10	.09803636	98
CHROMIUM	0.01	.01055609	106	0.20	.2099074	105
COBALT	0.01	.009639231	96.40	0.20	.1946322	97.30
LEAD	0.0050	.005544055	111	0.10	.09873343	98.70
LITHIUM	0.0150	.01369792	91.30	0.20	.1987796	99.40
SELENIUM	0.01	.008234783	82.30	0.20	.1836213	91.80
SILVER	0.0050	.004955423	99.10	0.10	.1023674	102
File ID:		20250313075707			20250313075956	

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INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.3897012	97.40	1	.9748541	97.50
BARIUM	0.20	.2072471	104	0.50	.5089387	102
BORON	0.40	.3907844	97.70	1	.9882532	98.80
CADMIUM	0.20	.1962672	98.10	0.50	.490597	98.10
CHROMIUM	0.40	.4159336	104	1	1.011687	101
COBALT	0.40	.3920766	98	1	.9822066	98.20
LEAD	0.20	.197483	98.70	0.50	.4946227	98.90
LITHIUM	0.40	.3930345	98.30	1	.9749498	97.50
SELENIUM	0.40	.3888387	97.20	1	.9735526	97.40
SILVER	0.20	.2042279	102	0.50	.4915499	98.30
File ID:		20250313080241			20250313080523	

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.000484	100	4	4.007225	100
BARIUM	1	1.016777	102	2	1.988413	99.40
BORON	2	1.991106	99.60	4	4.008628	100
CADMIUM	1	.9957446	99.60	2	2.00495	100
CHROMIUM	2	2.022657	101	4	3.983659	99.60
COBALT	2	1.996962	99.80	4	4.007029	100
LEAD	1	.9976466	99.80	2	2.002835	100
LITHIUM	2	1.971233	98.60	4	4.021408	101
SELENIUM	2	2.001812	100	4	4.007645	100
SILVER	1	.9925209	99.30	2	2.005311	100
File ID:		20250313080802			20250313081055	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 08:13
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/13/25 08:29
Analytical Method:	6010D	**Analytical Run:**	031325ICP14A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.008776002	87.80	0.20	.1953378	97.70
BARIUM	0.0050	.005733327	115	0.10	.1052535	105
BORON	0.20	.1948635	97.40			
CADMIUM	0.0020	.001868498	93.40	0.10	.1009775	101
CHROMIUM	0.01	.01048157	105	0.20	.2060505	103
COBALT	0.01	.009912933	99.10	0.20	.1941213	97.10
LEAD	0.0050	.004834752	96.70	0.10	.09509261	95.10
LITHIUM	0.0150	.01526407	102	0.20	.1993927	99.70
SELENIUM	0.01	.008558954	85.60	0.20	.1954977	97.70
SILVER	0.0050	.005258621	105	0.10	.1020158	102
File ID:		20250313081347			20250313081627	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 08:13
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/13/25 08:29
Analytical Method:	6010D	**Analytical Run:**	031325ICP14A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.3866706	96.70	1	.9895279	99
BARIUM	0.20	.2092507	105	0.50	.5148338	103
BORON	0.40	.3999966	100	1	.9959418	99.60
CADMIUM	0.20	.2023115	101	0.50	.497884	99.60
CHROMIUM	0.40	.4067921	102	1	1.003399	100
COBALT	0.40	.3896767	97.40	1	.9799668	98
LEAD	0.20	.1951392	97.60	0.50	.4894785	97.90
LITHIUM	0.40	.4015338	100	1	.9979772	99.80
SELENIUM	0.40	.3920712	98	1	.9680526	96.80
SILVER	0.20	.2049768	102	0.50	.5039282	101
File ID:		20250313081905			20250313082142	

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INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 08:13
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/13/25 08:29
Analytical Method:	6010D	**Analytical Run:**	031325ICP14A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.014453	101	4	3.996961	99.90
BARIUM	1	1.01493	101	2	1.987637	99.40
BORON	2	1.981588	99.10	4	4.010478	100
CADMIUM	1	1.002371	100	2	1.999064	100
CHROMIUM	2	2.00847	100	4	3.993932	99.80
COBALT	2	1.992585	99.60	4	4.010042	100
LEAD	1	.9951754	99.50	2	2.005775	100
LITHIUM	2	1.999453	100	4	4.000655	100
SELENIUM	2	1.981906	99.10	4	4.018055	100
SILVER	1	1.006603	101	2	1.995117	99.80
File ID:		20250313082413			20250313082639	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 17:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/13/25 17:48
Analytical Method:	6010D	**Analytical Run:**	031325ICP16B

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ALUMINUM	0.20	.1909584	95.50	2	1.949995	97.50
ANTIMONY	0.01	.009031916	90.30	0.10	.09893737	98.90
ARSENIC	0.01	.01129521	113	0.20	.1985778	99.30
BARIUM	0.0050	.005145864	103	0.10	.102692	103
BERYLLIUM	0.0020	.002098011	105	0.04	.03993274	99.80
BORON	0.20	.205218	103			
CADMIUM	0.0020	.001707636	85.40	0.10	.1035873	104
CALCIUM	1	1.03141	103	10	10.12859	101
CHROMIUM	0.01	.01031745	103	0.20	.1991228	99.60
COBALT	0.01	.008545108	85.50	0.20	.188487	94.20
COPPER	0.01	.01129688	113	0.20	.2096118	105
IRON	0.10	.09744133	97.40	2	1.995944	99.80
LEAD	0.0050	.004566785	91.30	0.10	.09886281	98.90
LITHIUM	0.0150	.01665331	111	0.20	.1862073	93.10
MAGNESIUM	1	1.033644	103	2	2.038073	102
MANGANESE	0.01	.009533519	95.30	0.20	.2028886	101
MOLYBDENUM	0.0050	.005292007	106	0.05	.05348635	107
NICKEL	0.01	.01063754	106	0.20	.1882355	94.10
PHOSPHORUS	0.10	.09865178	98.70	0.20	.1951989	97.60
POTASSIUM	1	1.07313	107	10	10.18506	102
SELENIUM	0.01	.008054602	80.50	0.20	.2000016	100
SILICON	0.20	.1957216	97.90	0.40	.3995424	99.90
SILVER	0.0050	.005543381	111	0.10	.110587	111
SODIUM	1	1.068454	107	10	10.10758	101
STRONTIUM	0.01	.01024189	102	0.20	.2061567	103
SULFUR	1	1.005294	101			
THALLIUM	0.01	.01034652	103	0.20	.2052397	103
TIN	0.05	.05020061	100	0.10	.09811296	98.10
TITANIUM	0.05	.05060386	101	0.20	.2018087	101
VANADIUM	0.02	.02174254	109	0.20	.2005732	100
ZINC	0.05	.05345183	107	0.20	.2000854	100
CERIUM						
LANTHANUM						
File ID:		20250313173851			20250313174029	

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INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 17:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/13/25 17:48
Analytical Method:	6010D	**Analytical Run:**	031325ICP16B

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ALUMINUM	4	3.878283	97	10	9.667369	96.70
ANTIMONY	0.20	.2046928	102	0.50	.5099946	102
ARSENIC	0.40	.3978178	99.50	1	1.004295	100
BARIUM	0.20	.202988	101	0.50	.5079048	102
BERYLLIUM	0.08	.08019516	100	0.20	.1995286	99.80
BORON	0.40	.4010504	100	1	.9894914	98.90
CADMIUM	0.20	.2015423	101	0.50	.5025846	101
CALCIUM	20	20.32695	102	50	49.84288	99.70
CHROMIUM	0.40	.3965873	99.10	1	.9969235	99.70
COBALT	0.40	.3789529	94.70	1	.9692285	96.90
COPPER	0.40	.4105218	103	1	1.017044	102
IRON	4	3.993509	99.80	10	10.00343	100
LEAD	0.20	.1988529	99.40	0.50	.4971448	99.40
LITHIUM	0.40	.3726537	93.20	1	.9251037	92.50
MAGNESIUM	4	4.06083	102	10	10.02266	100
MANGANESE	0.40	.3994376	99.90	1	1.004829	100
MOLYBDENUM	0.10	.1006459	101	0.25	.2546322	102
NICKEL	0.40	.376578	94.10	1	.9633899	96.30
PHOSPHORUS	0.40	.3961445	99	1	.9968742	99.70
POTASSIUM	20	20.46308	102	50	50.15465	100
SELENIUM	0.40	.3945919	98.60	1	.9983186	99.80
SILICON	0.80	.78619	98.30	2	2.005532	100
SILVER	0.20	.2210793	111	0.50	.5213374	104
SODIUM	20	19.94279	99.70			
STRONTIUM	0.40	.4104797	103	1	1.004626	100
SULFUR	2	1.93511	96.80	5	4.745262	94.90
THALLIUM	0.40	.4130646	103	1	1.02561	103
TIN	0.20	.1941186	97.10	0.50	.4890372	97.80
TITANIUM	0.40	.4026851	101	1	.9930687	99.30
VANADIUM	0.40	.4002244	100	1	.99462	99.50
ZINC	0.40	.3885585	97.10	1	.9979286	99.80
CERIUM						
LANTHANUM						
File ID:		20250313174207			20250313174345	

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 17:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/13/25 17:48
Analytical Method:	6010D	**Analytical Run:**	031325ICP16B

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ALUMINUM	20	19.45085	97.30	40	38.97428	97.40
ANTIMONY	1	1.007148	101	2	1.993516	99.70
ARSENIC	2	2.013755	101	4	3.992334	99.80
BARIUM	1	1.010569	101	2	1.992306	99.60
BERYLLIUM	0.40	.4007208	100	0.80	.7997411	100
BORON	2	2.005951	100	4	3.999286	100
CADMIUM	1	1.004449	100	2	1.996796	99.80
CALCIUM						
CHROMIUM	2	2.018132	101	4	3.992088	99.80
COBALT	2	1.975285	98.80	4	4.022734	101
COPPER	2	2.014249	101	4	3.987079	99.70
IRON						
LEAD	1	.9977534	99.80	2	2.00201	100
LITHIUM	2	1.938831	96.90	4	4.052727	101
MAGNESIUM	20	20.1025	101	40	39.95634	99.90
MANGANESE	2	2.010484	101	4	3.993464	99.80
MOLYBDENUM	0.50	.5074134	101	1	.9948949	99.50
NICKEL	2	1.980386	99	4	4.021888	101
PHOSPHORUS	2	2.026261	101	4	3.98831	99.70
POTASSIUM	100	100.6807	101	200	199.5651	99.80
SELENIUM	2	2.008558	100	4	3.996687	99.90
SILICON	4	4.006298	100	8	7.996979	100
SILVER	1	1.001866	100	2	1.991094	99.60
SODIUM						
STRONTIUM	2	2.00574	100	4	3.994617	99.90
SULFUR	10	9.854738	98.50	20	19.64218	98.20
THALLIUM	2	2.04093	102	4	3.971563	99.30
TIN	1	1.003545	100	2	2.001645	100
TITANIUM	2	2.015042	101	4	3.993845	99.80
VANADIUM	2	2.000972	100	4	4.000799	100
ZINC	2	1.969797	98.50	4	4.016716	100
CERIUM				10	10	100
LANTHANUM				10	10	100
File ID:		20250313174522			20250313174700	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 17:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/13/25 17:48
Analytical Method:	6010D	**Analytical Run:**	031325ICP16B

Analyte	**Std Conc** mg/l	**Result** mg/l	**Rec.** %
ALUMINUM	500	500.1119	100
ANTIMONY			
ARSENIC			
BARIUM			
BERYLLIUM			
BORON			
CADMIUM			
CALCIUM			
CHROMIUM			
COBALT			
COPPER			
IRON			
LEAD			
LITHIUM			
MAGNESIUM	500	499.9982	100
MANGANESE			
MOLYBDENUM			
NICKEL			
PHOSPHORUS			
POTASSIUM			
SELENIUM			
SILICON			
SILVER			
SODIUM			
STRONTIUM			
SULFUR	100	100.1001	100
THALLIUM			
TIN			
TITANIUM			
VANADIUM			
ZINC			
CERIUM			
LANTHANUM			
File ID:		20250313174838	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 17:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/13/25 17:48
Analytical Method:	6010D	**Analytical Run:**	031325ICP16B

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SODIUM	20	18.63107	93.20	50	46.38041	92.80
CALCIUM				50	51.41599	103
IRON				10	10.32583	103
File ID:		20250313174207			20250313174345	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 17:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/13/25 17:48
Analytical Method:	6010D	**Analytical Run:**	031325ICP16B

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SODIUM	100	93.93692	93.90	200	187.4477	93.70
CALCIUM	100	102.3	102	200	202.7351	101
IRON	20	20.39316	102	40	41.17575	103
File ID:		20250313174522			20250313174700	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 17:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/13/25 17:48
Analytical Method:	6010D	**Analytical Run:**	031325ICP16B

Analyte	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%
SODIUM	500	506.6503	101
CALCIUM	500	498.3044	99.70
IRON	200	199.7092	99.90
File ID:		20250313174838	

16A-IN

INITIAL CALIBRATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	6010D	**Analytical Run:**	031325ICP13A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999969	108.4947	-0.655814
BARIUM	233.527	8	5	0.999911	4227.523	-0.327624
BORON	249.678	8	5	0.999982	311.6607	4.007682
CADMIUM	228.802	8	5	0.999977	6590.507	1.438663
CHROMIUM	267.716	8	5	0.999951	9840.71	4.27891
COBALT	228.616	8	5	0.999982	4145.749	-4.742611
LEAD	220.353	8	5	0.999992	648.1994	-1.463538
LITHIUM	670.784	8	5	0.999925	7871.798	-13.19208
SELENIUM	196.09	8	5	0.999956	87.51796	0.455586
SILVER	328.068	8	5	0.999972	12727.44	107.3858

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16A-IN

INITIAL CALIBRATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 08:13
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/13/25 08:29
Analytical Method:	6010D	**Analytical Run:**	031325ICP14A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.99998	225.2222	0.059289
BARIUM	233.527	8	5	0.999889	4723.083	-2.630238
BORON	249.678	8	5	0.999979	56.31359	1.301664
CADMIUM	228.802	8	5	0.999997	10401	-10.34774
CHROMIUM	267.716	8	5	0.999992	10987.03	-10.13655
COBALT	228.616	8	5	0.999973	5585.442	-4.581679
LEAD	220.353	8	5	0.999967	936.6521	-0.048262
LITHIUM	670.784	8	5	1	5132.7	-28.23128
SELENIUM	196.09	8	5	0.999933	167.7972	1.072418
SILVER	328.068	8	5	0.999983	15844.41	12.02294

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16A-IN

INITIAL CALIBRATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 17:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/13/25 17:48
Analytical Method:	6010D	**Analytical Run:**	031325ICP16B

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ALUMINUM	308.215	8	5	0.999997	57.20429	-3.218606
ANTIMONY	206.833	8	5	0.999966	125.8281	0.76197
ARSENIC	189.042	8	5	0.999989	187.4354	1.819647
BARIUM	233.527	8	5	0.999961	5789.103	-5.540828
BERYLLIUM	313.042	8	5	0.999999	16003.37	1.081668
BORON	249.678	8	5	0.999993	209.0202	0.495138
CADMIUM	228.802	8	5	0.999992	2107.625	-1.862144
CALCIUM	317.933	8	5	0.999956	225.182	22.01398
CERIUM	535.353	8	5	1	87.70767	11.10256
CHROMIUM	267.716	8	5	0.999984	2303.369	5.224914
COBALT	228.616	8	5	0.999899	1039.076	-1.333228
COPPER	324.754	8	5	0.999966	4573.619	-4.767052
IRON	259.94	8	5	0.999999	247.4663	3.095999
LANTHANUM	333.749	8	5	1	528.5231	-0.539076
LEAD	220.353	8	5	0.999997	472.8585	0.437014
LITHIUM	670.784	8	5	0.999505	1075.806	37.58761
MAGNESIUM	279.079	8	5	1	87.54191	-2.33806
MANGANESE	257.61	8	5	0.999993	20980.24	-2.552983
MOLYBDENUM	202.03	8	5	0.999928	549.6104	0.586795
NICKEL	231.604	8	5	0.99989	949.3606	-1.246605
PHOSPHORUS	177.495	8	5	0.999966	180.5338	2.196581
POTASSIUM	766.49	8	5	0.999986	97.75902	-27.23894
SELENIUM	196.09	8	5	0.999995	144.1859	0.855341
SILICON	251.611	8	5	0.999997	1012.187	6.227898
SILVER	328.068	8	5	0.999828	3776.261	-13.56223
SODIUM	589.592	8	5	0.999962	378.2912	-61.03924
STRONTIUM	421.552	8	5	0.999991	10569.03	1.165372
SULFUR	182.034	8	5	0.999985	51.53693	4.060517
THALLIUM	190.856	8	5	0.99987	172.8697	0.490181
TIN	189.989	8	5	0.999973	411.5774	-0.229593
TITANIUM	334.941	8	5	0.999987	1673.763	-3.129714
VANADIUM	292.402	8	5	0.999999	608.2223	-0.032052
ZINC	206.2	8	5	0.999948	2204.245	113.8152

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16A-IN

INITIAL CALIBRATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/13/25 17:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/13/25 17:48
Analytical Method:	6010D	**Analytical Run:**	031325ICP16B

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
CALCIUM	373.69	8	5	0.999944	99.24362	0.993696
IRON	271.441	8	5	0.999968	18.5391	1.670977
SODIUM	818.326	8	5	0.999303	8.446774	21.22382

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

Sample ID: CALBLK Units: mg/l
Analyzed: 03/13/25 07:54 Sequence: 2 Standard ID: 25C10350

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11208.33	11201.45	11223.62	11199.93
YTTRIUM	360.073	Axial	326176.3	325943.6	326849.5	325735.7
YTTRIUM	360.073	Radial	12681.00	12625.39	12667.80	12749.79
INDIUM	230.606	Axial	3339.227	3342.158	3338.931	3336.591

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	11.56176	11.37663	9.720239	13.58842
ANTIMONY	206.833	Axial	0.5279300	0.04744767	1.468005	0.06833675
ARSENIC	189.042	Axial	-0.6558663	-1.032279	-0.7069266	-0.2283931
BARIUM	233.527	Axial	-0.3278911	-0.6918980	-0.6843077	0.3925325
BERYLLIUM	313.042	Radial	-9.61313	-8.935993	-12.15856	-7.744837
BORON	249.678	Radial	4.007712	5.735661	1.332445	4.955030
CADMIUM	228.802	Axial	1.438325	0.3855795	1.027540	2.901855
CALCIUM	317.933	Radial	82.07239	79.88362	81.14035	85.19320
CALCIUM	373.690	Radial	24.07244	21.86201	19.23718	31.11814
CERIUM	535.353	Radial	347.8054	348.1020	348.8230	346.4912
CHROMIUM	267.716	Axial	4.277778	1.388889	2.861111	8.583333
COBALT	228.616	Axial	-4.74258	-4.247680	-5.810974	-4.169095
COPPER	324.754	Axial	212.6859	212.8640	221.0370	204.1568
IRON	259.940	Radial	42.43108	43.76559	40.88941	42.63824
IRON	271.441	Radial	-0.7121157	-0.6095871	-1.859871	0.3331113
LANTHANUM	333.749	Radial	2.788005	2.950956	3.289474	2.123584
LEAD	220.353	Axial	-1.46403	-2.756384	-0.5317859	-1.103941
LITHIUM	670.784	Radial	-13.1969	-5.818786	-22.07972	-11.69221
MAGNESIUM	279.079	Radial	0.1764856	-1.108340	-0.3608705	1.998668
MANGANESE	257.610	Axial	15.64532	16.93730	16.98208	13.01659
MOLYBDENUM	202.030	Axial	0.8830903	1.177124	0.9983361	0.4738108
NICKEL	231.604	Axial	-5.59563	-5.142448	-6.114660	-5.529791
PHOSPHORUS	177.495	Axial	0.6485241	0.8229132	1.110454	0.01220525
POTASSIUM	766.490	Radial	-68.9347	-46.71654	-77.42061	-82.66711
SELENIUM	196.090	Axial	0.4554412	1.066260	0.2113256	0.08873820
SILICON	251.611	Axial	16.65040	15.36398	17.79446	16.79275
SILVER	328.068	Axial	107.3856	97.01179	107.9178	117.2272
SODIUM	589.592	Radial	51.67324	46.50873	57.96136	50.54963
SODIUM	818.326	Radial	-123.872	-138.6672	-97.93471	-135.0142
STRONTIUM	421.552	Radial	16.65422	17.34553	14.74017	17.87697
SULFUR	182.034	Axial	1.824111	1.743476	2.163062	1.565797
THALLIUM	190.856	Axial	0.8206614	1.186377	0.6820215	0.5935857
TIN	189.989	Axial	0.2218949	0.04812141	0.5509336	0.06662965
TITANIUM	334.941	Radial	-3.10670	-3.823774	-1.082612	-4.413724
VANADIUM	292.402	Radial	-0.6836131	1.138525	-1.806188	-1.383176
ZINC	206.200	Axial	8.211232	8.662876	7.250298	8.720523

Sample ID: STD1 Units: mg/l
Analyzed: 03/13/25 07:57 Sequence: 3 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11170.74	11147.13	11190.58	11174.51
YTTRIUM	360.073	Axial	327177.5	325041.7	329197.4	327293.4
YTTRIUM	360.073	Radial	12647.12	12690.92	12638.32	12612.10
INDIUM	230.606	Axial	3302.528	3285.826	3315.437	3306.319

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	30.52230	31.73089	29.00251	30.83352
ANTIMONY	206.833	Axial	2.335024	2.522619	2.376930	2.105524
ARSENIC	189.042	Axial	0.3834684	0.3380825	0.9171131	-0.1047903
BARIUM	233.527	Axial	22.04511	22.13950	21.89506	22.10077
BERYLLIUM	313.042	Radial	54.57424	51.83181	57.50333	54.38757
BORON	249.678	Radial	64.15696	64.44629	63.37442	64.65016
CADMIUM	228.802	Axial	16.54738	17.65988	15.68409	16.29816
CALCIUM	317.933	Radial	831.9911	830.5579	831.0848	834.3305
CHROMIUM	267.716	Axial	107.7963	107.6111	109.6111	106.1667
COBALT	228.616	Axial	34.83051	35.32098	34.68056	34.48999
COPPER	324.754	Axial	487.1706	482.0377	484.0124	495.4618
IRON	259.940	Radial	97.70550	96.25312	98.22618	98.63719
LEAD	220.353	Axial	2.105520	2.409590	1.533828	2.373142
LITHIUM	670.784	Radial	94.37984	94.66001	90.86165	97.61786
MAGNESIUM	279.079	Radial	52.45168	51.76242	52.63158	52.96105
MANGANESE	257.610	Axial	789.6795	790.1495	789.4045	789.4845
MOLYBDENUM	202.030	Axial	5.232718	5.219323	5.731189	4.747643
NICKEL	231.604	Axial	13.33299	13.87873	13.10470	13.01556
PHOSPHORUS	177.495	Axial	10.65186	10.86323	10.55169	10.54066
POTASSIUM	766.490	Radial	272.4084	265.0014	274.1783	278.0455
SELENIUM	196.090	Axial	1.171668	2.052548	1.296908	0.1655467
SILICON	251.611	Axial	770.9182	768.7934	770.9378	773.0234
SILVER	328.068	Axial	169.8750	179.1811	168.2598	162.1842
SODIUM	589.592	Radial	1265.805	1286.470	1258.827	1252.119
STRONTIUM	421.552	Radial	442.9663	450.6245	441.7888	436.4855
SULFUR	182.034	Axial	60.85435	60.58856	61.20910	60.76539
THALLIUM	190.856	Axial	2.126710	2.275680	2.204274	1.900177
TIN	189.989	Axial	13.93623	13.87377	14.44999	13.48493
TITANIUM	334.941	Radial	206.8685	210.6578	204.2805	205.6673
VANADIUM	292.402	Radial	12.54647	11.57570	14.22101	11.84269
ZINC	206.200	Axial	99.08491	99.86016	99.65101	97.74355

Sample ID: STD2 Units: mg/l
Analyzed: 03/13/25 07:59 Sequence: 4 Standard ID: 25C13924

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11088.60	11085.86	11098.19	11081.74
YTTRIUM	360.073	Axial	319425.7	316951.8	319967.8	321357.5
YTTRIUM	360.073	Radial	12503.53	12505.87	12576.71	12428.01
INDIUM	230.606	Axial	3221.464	3223.304	3223.776	3217.312

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	201.5054	204.8774	200.2470	199.3919
ANTIMONY	206.833	Axial	21.03051	21.90698	20.42907	20.75549
ARSENIC	189.042	Axial	20.49678	21.23129	20.76941	19.48964
BARIUM	233.527	Axial	437.9008	439.5013	436.8157	437.3853
BERYLLIUM	313.042	Radial	1264.202	1259.692	1267.125	1265.789
CADMIUM	228.802	Axial	640.6308	640.1612	641.9596	639.7715
CALCIUM	317.933	Radial	7481.393	7496.977	7482.250	7464.950
CALCIUM	373.690	Radial	4723.434	4731.864	4738.083	4700.355
CHROMIUM	267.716	Axial	2047.802	2056.396	2041.313	2045.697
COBALT	228.616	Axial	773.8630	774.0312	772.6608	774.8971
COPPER	324.754	Axial	5451.963	5433.747	5429.200	5492.942
IRON	259.940	Radial	1106.807	1113.311	1108.458	1098.650
LEAD	220.353	Axial	60.33051	60.07248	61.39960	59.51945
LITHIUM	670.784	Radial	1529.811	1530.211	1529.600	1529.623
MAGNESIUM	279.079	Radial	105.7503	105.5186	106.0556	105.6768
MANGANESE	257.610	Axial	14860.68	14898.66	14809.64	14873.73
MOLYBDENUM	202.030	Axial	40.95227	40.28086	41.38926	41.18670
NICKEL	231.604	Axial	342.9863	342.1200	344.3580	342.4810
PHOSPHORUS	177.495	Axial	21.16235	21.27097	21.43405	20.78202
POTASSIUM	766.490	Radial	3243.867	3251.082	3272.833	3207.688
SELENIUM	196.090	Axial	16.34918	16.42397	16.29355	16.33003
SILICON	251.611	Axial	1559.380	1556.576	1542.114	1579.449
SILVER	328.068	Axial	1395.193	1396.467	1390.991	1398.122
SODIUM	589.592	Radial	11973.96	11986.65	12023.63	11911.60
SODIUM	818.326	Radial	582.7318	583.4928	589.2604	575.4423
STRONTIUM	421.552	Radial	8346.741	8354.770	8400.028	8285.425
THALLIUM	190.856	Axial	24.64479	23.75519	25.11966	25.05952
TIN	189.989	Axial	27.53887	27.45011	28.01080	27.15570
TITANIUM	334.941	Radial	821.4125	825.8735	822.1667	816.1973
VANADIUM	292.402	Radial	137.3775	138.0837	139.6516	134.3973
ZINC	206.200	Axial	377.9375	376.5493	379.3725	377.8907

Sample ID: STD3 Units: mg/l
Analyzed: 03/13/25 08:02 Sequence: 5 Standard ID: 25C13926

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10980.42	10958.46	10992.81	10990.00
YTTRIUM	360.073	Axial	315768.8	315149.2	316734.2	315423.0
YTTRIUM	360.073	Radial	12456.63	12488.41	12461.55	12419.95
INDIUM	230.606	Axial	3141.105	3139.925	3144.750	3138.640

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	393.4279	391.4003	399.6804	389.2032
ANTIMONY	206.833	Axial	41.43597	41.26603	41.27877	41.76311
ARSENIC	189.042	Axial	40.77854	40.46992	40.81320	41.05249
BARIUM	233.527	Axial	858.0021	859.9148	858.7128	855.3787
BERYLLIUM	313.042	Radial	2520.042	2521.647	2533.578	2504.902
BORON	249.678	Radial	123.5721	122.9433	123.4378	124.3353
CADMIUM	228.802	Axial	1268.607	1267.347	1272.672	1265.800
CALCIUM	373.690	Radial	9309.496	9321.755	9332.306	9274.427
CHROMIUM	267.716	Axial	4014.042	4010.767	4029.138	4002.220
COBALT	228.616	Axial	1524.550	1525.543	1526.283	1521.823
COPPER	324.754	Axial	10470.91	10486.05	10500.96	10425.72
IRON	259.940	Radial	2146.512	2150.324	2146.059	2143.154
LEAD	220.353	Axial	119.0363	118.3556	118.5773	120.1760
LITHIUM	670.784	Radial	3026.160	3016.941	3028.484	3033.056
MAGNESIUM	279.079	Radial	203.6490	205.2241	204.2993	201.4235
MANGANESE	257.610	Axial	28882.14	28896.75	28885.37	28864.29
MOLYBDENUM	202.030	Axial	79.49453	79.63600	79.27388	79.57371
NICKEL	231.604	Axial	675.7150	674.6587	676.6615	675.8249
PHOSPHORUS	177.495	Axial	40.35956	41.48365	40.55127	39.04375
POTASSIUM	766.490	Radial	6491.647	6486.095	6512.442	6476.404
SELENIUM	196.090	Axial	33.78447	33.93493	33.37188	34.04659
SILICON	251.611	Axial	3087.711	3082.534	3093.203	3087.395
SILVER	328.068	Axial	2651.647	2645.511	2663.943	2645.487
SODIUM	818.326	Radial	1281.188	1271.893	1295.482	1276.189
STRONTIUM	421.552	Radial	16502.36	16488.56	16567.54	16450.98
SULFUR	182.034	Axial	118.8792	119.0878	119.0550	118.4947
THALLIUM	190.856	Axial	47.22136	47.12596	47.54559	46.99252
TIN	189.989	Axial	52.78462	52.44331	53.05383	52.85672
TITANIUM	334.941	Radial	1626.372	1611.102	1641.476	1626.537
VANADIUM	292.402	Radial	275.3429	277.0000	274.8561	274.1725
ZINC	206.200	Axial	740.9633	739.4679	742.9061	740.5160

Sample ID: STD4 Units: mg/l
Analyzed: 03/13/25 08:05 Sequence: 6 Standard ID: 25C13927

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10734.69	10755.49	10711.73	10736.86
YTTRIUM	360.073	Axial	305530.9	304568.0	307781.2	304243.5
YTTRIUM	360.073	Radial	12417.45	12461.83	12362.50	12428.01
INDIUM	230.606	Axial	2997.820	3003.742	2991.057	2998.660

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	949.5517	951.4848	942.0310	955.1393
ANTIMONY	206.833	Axial	101.7049	101.2961	101.3514	102.4671
ARSENIC	189.042	Axial	100.6692	101.5173	100.5734	99.91705
BARIUM	233.527	Axial	2060.312	2062.722	2059.460	2058.754
BERYLLIUM	313.042	Radial	6228.679	6229.875	6216.559	6239.602
BORON	249.678	Radial	305.5216	304.1667	303.6308	308.7673
CADMIUM	228.802	Axial	3098.026	3102.542	3093.052	3098.484
CALCIUM	373.690	Radial	22723.99	22813.67	22653.51	22704.79
CHROMIUM	267.716	Axial	9539.123	9574.573	9514.721	9528.074
COBALT	228.616	Axial	3651.391	3652.209	3648.883	3653.082
COPPER	324.754	Axial	24829.85	24965.49	24746.71	24777.35
IRON	259.940	Radial	5189.195	5222.042	5169.948	5175.595
IRON	271.441	Radial	277.7468	277.2778	277.4454	278.5172
LEAD	220.353	Axial	286.5185	286.6694	287.6607	285.2254
LITHIUM	670.784	Radial	7502.231	7527.956	7443.375	7535.363
MAGNESIUM	279.079	Radial	500.1955	502.0278	499.6123	498.9464
MANGANESE	257.610	Axial	69098.72	69265.78	69070.64	68959.74
MOLYBDENUM	202.030	Axial	191.7592	191.5687	192.5737	191.1353
NICKEL	231.604	Axial	1623.232	1622.191	1628.995	1618.511
PHOSPHORUS	177.495	Axial	99.57153	100.2566	98.63552	99.82248
POTASSIUM	766.490	Radial	16181.41	16267.42	16055.39	16221.43
SELENIUM	196.090	Axial	82.03847	81.65517	82.31880	82.14145
SILICON	251.611	Axial	7582.422	7555.803	7598.117	7593.347
SILVER	328.068	Axial	6094.647	6117.061	6084.607	6082.274
SODIUM	818.326	Radial	3286.243	3305.035	3258.454	3295.240
STRONTIUM	421.552	Radial	40398.00	40570.61	40112.63	40510.76
SULFUR	182.034	Axial	291.5864	292.5449	291.6121	290.6021
THALLIUM	190.856	Axial	109.6756	109.8460	110.1382	109.0425
TIN	189.989	Axial	128.2177	128.2302	128.4811	127.9419
TITANIUM	334.941	Radial	3997.613	3993.333	3995.929	4003.577
VANADIUM	292.402	Radial	677.0856	681.8072	671.8831	677.5666
ZINC	206.200	Axial	1787.025	1792.383	1792.907	1775.783

Sample ID: STD5 Units: mg/l
Analyzed: 03/13/25 08:08 Sequence: 7 Standard ID: 25C13929

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10464.66	10459.32	10459.95	10474.70
YTTRIUM	360.073	Axial	298958.5	299788.8	298684.7	298402.0
YTTRIUM	360.073	Radial	12305.33	12317.65	12309.22	12289.12
INDIUM	230.606	Axial	2856.097	2855.538	2854.657	2858.096

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1895.356	1894.734	1893.927	1897.408
ANTIMONY	206.833	Axial	201.3482	200.5907	202.1765	201.2774
ARSENIC	189.042	Axial	202.0291	200.8541	202.5175	202.7155
BARIUM	233.527	Axial	4012.934	4015.118	4011.004	4012.680
BERYLLIUM	313.042	Radial	12362.77	12328.67	12403.99	12355.65
BORON	249.678	Radial	606.0533	607.0478	602.7135	608.3986
CADMIUM	228.802	Axial	6128.375	6141.994	6121.222	6121.910
CALCIUM	373.690	Radial	45099.17	45046.79	45172.33	45078.40
CHROMIUM	267.716	Axial	18587.70	18623.47	18564.35	18575.27
COBALT	228.616	Axial	7077.027	7076.060	7077.519	7077.502
COPPER	324.754	Axial	48635.03	48561.26	48925.51	48418.31
IRON	271.441	Radial	546.6210	548.6492	548.8597	542.3541
LEAD	220.353	Axial	551.8595	551.9932	550.9466	552.6388
LITHIUM	670.784	Radial	15044.63	14997.10	15082.25	15054.54
MAGNESIUM	279.079	Radial	990.0760	986.9640	988.7909	994.4731
MANGANESE	257.610	Axial	134536.8	134545.1	134443.8	134621.5
MOLYBDENUM	202.030	Axial	371.7866	370.9332	372.7677	371.6591
NICKEL	231.604	Axial	3138.563	3137.631	3132.572	3145.486
PHOSPHORUS	177.495	Axial	196.0847	196.3132	195.9989	195.9421
POTASSIUM	766.490	Radial	32640.88	32586.40	32676.24	32660.00
SELENIUM	196.090	Axial	163.9952	164.8508	163.7935	163.3412
SILICON	251.611	Axial	15077.65	14924.00	15150.37	15158.57
SILVER	328.068	Axial	11894.33	11858.99	11957.74	11866.27
SODIUM	818.326	Radial	6693.929	6686.817	6700.995	6693.975
STRONTIUM	421.552	Radial	80704.61	80512.18	80876.26	80725.41
SULFUR	182.034	Axial	585.6215	586.3465	585.6064	584.9117
THALLIUM	190.856	Axial	207.9659	209.2718	208.4943	206.1315
TIN	189.989	Axial	246.3680	244.3951	247.4530	247.2558
TITANIUM	334.941	Radial	8005.464	8012.648	8006.409	7997.334
VANADIUM	292.402	Radial	1347.731	1347.040	1345.597	1350.556
ZINC	206.200	Axial	3475.645	3463.884	3472.869	3490.183

Sample ID: STD6 Units: mg/l
Analyzed: 03/13/25 08:10 Sequence: 8 Standard ID: 25C13930

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10109.29	10117.29	10096.86	10113.72
YTTRIUM	360.073	Axial	284612.5	285488.4	283469.8	284879.4
YTTRIUM	360.073	Radial	11934.94	11854.18	11929.99	12020.63
INDIUM	230.606	Axial	2675.305	2672.847	2675.618	2677.451

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	3693.028	3672.181	3695.252	3711.652
ANTIMONY	206.833	Axial	393.6976	394.9950	393.1975	392.9005
ARSENIC	189.042	Axial	391.5409	393.4452	390.2357	390.9417
BARIUM	233.527	Axial	7581.499	7592.841	7574.898	7576.756
BERYLLIUM	313.042	Radial	23891.41	23767.14	23868.40	24038.69
BORON	249.678	Radial	1179.594	1173.141	1179.285	1186.356
CADMIUM	228.802	Axial	11919.26	11935.91	11904.02	11917.84
CALCIUM	373.690	Radial	87475.99	87128.87	87515.63	87783.47
CERIUM	535.353	Radial	2600.010	2574.530	2609.001	2616.500
CHROMIUM	267.716	Axial	35361.84	35316.01	35412.27	35357.24
COBALT	228.616	Axial	13305.42	13325.56	13291.45	13299.25
COPPER	324.754	Axial	93753.87	93475.56	94381.16	93404.89
IRON	271.441	Radial	1061.361	1063.190	1058.693	1062.202
LANTHANUM	333.749	Radial	7026.350	6985.485	7010.578	7082.987
LEAD	220.353	Axial	1038.942	1038.238	1039.941	1038.646
LITHIUM	670.784	Radial	29781.26	29536.00	29707.35	30100.43
MAGNESIUM	279.079	Radial	1929.326	1930.572	1930.840	1926.567
MANGANESE	257.610	Axial	251984.7	252547.3	252617.5	250789.1
MOLYBDENUM	202.030	Axial	711.0152	714.9627	708.9220	709.1608
NICKEL	231.604	Axial	5906.756	5913.199	5904.582	5902.486
PHOSPHORUS	177.495	Axial	384.9392	385.5891	382.2390	386.9895
POTASSIUM	766.490	Radial	64638.65	64253.34	64561.72	65100.89
SELENIUM	196.090	Axial	316.7591	314.9460	316.8592	318.4720
SILICON	251.611	Axial	29540.87	29202.25	29723.25	29697.10
SILVER	328.068	Axial	23116.62	23084.97	23203.02	23061.88
SODIUM	818.326	Radial	13233.54	13158.92	13205.32	13336.37
STRONTIUM	421.552	Radial	156636.2	155287.2	156597.6	158023.7
SULFUR	182.034	Axial	1148.693	1146.219	1147.879	1151.980
THALLIUM	190.856	Axial	386.0675	384.1198	386.0814	388.0014
TIN	189.989	Axial	469.1641	469.8048	467.8920	469.7955
TITANIUM	334.941	Radial	15539.23	15425.05	15546.89	15645.76
VANADIUM	292.402	Radial	2622.151	2605.317	2623.257	2637.879
ZINC	206.200	Axial	6571.521	6592.378	6558.362	6563.825

Sample ID: STD7 Units: mg/l
Analyzed: 03/13/25 08:13 Sequence: 9 Standard ID: 25C09297

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9513.116	9522.553	9525.577	9491.218
YTTRIUM	360.073	Axial	268171.9	268275.3	268603.6	267636.7
YTTRIUM	360.073	Radial	11729.01	11737.46	11732.21	11717.37
INDIUM	230.606	Axial	2382.521	2387.007	2383.504	2377.053

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	45724.52	45789.96	45768.21	45615.40
CALCIUM	373.690	Radial	208358.4	208738.1	208427.0	207910.0
IRON	271.441	Radial	4951.176	4962.944	4947.406	4943.177
MAGNESIUM	279.079	Radial	24728.92	24822.53	24727.76	24636.48
SODIUM	818.326	Radial	33119.78	33180.92	33121.21	33057.22
SULFUR	182.034	Axial	5584.423	5602.087	5597.602	5553.582

Sample ID: ICV-2 Units: mg/l
Analyzed: 03/13/25 08:17 Sequence: 10 Standard ID: 25C13928

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	10989.24	10995.02	10987.42	10974.18	11000.33
YTTRIUM	360.073	Axial	317210.2	320109.6	320543.4	312149.8	316037.8
YTTRIUM	360.073	Radial	12542.62	12567.12	12562.00	12577.50	12463.84
INDIUM	230.606	Axial	3146.238	3151.258	3152.497	3143.271	3137.927

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	991.5410	10.02576	10.01015	10.11065	9.971703
ANTIMONY	206.833	Axial	201.0364	0.9422874	0.9433977	0.9434093	0.9398905
ARSENIC	189.042	Axial	103.9000	0.9827878	0.9902519	0.9861177	0.9791314
BARIUM	233.527	Axial	4326.090	1.043796	1.049832	1.047035	1.042409
BERYLLIUM	313.042	Radial	31377.50	0.9986040	0.9991677	1.000816	0.9966350
BORON	249.678	Radial	311.9337	0.9990383	1.010930	0.9969094	0.9994291
CADMIUM	228.802	Axial	6288.823	0.9730315	0.9775301	0.9759136	0.9715614
CALCIUM	317.933	Radial	7502.436	9.996446	9.985602	10.03730	9.969158
CHROMIUM	267.716	Axial	10122.69	1.048729	1.045801	1.051385	1.050285
COBALT	228.616	Axial	3786.440	0.9704889	0.9761154	0.9734798	0.9688995
COPPER	324.754	Axial	26004.65	1.014782	1.019122	1.023490	1.013193
IRON	259.940	Radial	5387.093	10.24464	10.24716	10.26929	10.23319
LEAD	220.353	Axial	596.7395	0.9793258	0.9874254	0.9836084	0.9777071
LITHIUM	670.784	Radial	7853.144	1.010306	1.010738	1.015086	1.008551
MAGNESIUM	279.079	Radial	513.3335	9.706364	9.687770	9.753417	9.649946
MANGANESE	257.610	Axial	73266.05	1.061193	1.062378	1.064485	1.058640
MOLYBDENUM	202.030	Axial	800.3585	1.032953	1.035658	1.035512	1.031944
NICKEL	231.604	Axial	1696.047	0.9805668	0.9883751	0.9850129	0.9780434
PHOSPHORUS	177.495	Axial	99.62379	0.9525869	0.9619600	0.9527014	0.9520233
POTASSIUM	766.490	Radial	3296.698	9.952098	9.959041	9.962788	9.943404
SELENIUM	196.090	Axial	82.94725	0.9614637	0.9608456	0.9563595	0.9623281
SILICON	251.611	Axial	4087.110	1.019536	1.004364	1.020754	1.022875
SILVER	328.068	Axial	12426.53	0.9873888	0.9879975	0.9943715	0.9881428
SODIUM	589.592	Radial	12151.44	10.11624	10.13898	10.16121	10.10817
STRONTIUM	421.552	Radial	16890.04	0.4102434	0.4102854	0.4122381	0.4097232
SULFUR	182.034	Axial	611.9621	9.479901	9.215352	9.288588	9.514973
THALLIUM	190.856	Axial	116.8746	1.047649	1.043731	1.045963	1.067432
TIN	189.989	Axial	265.5623	1.036466	1.043403	1.045593	1.034184
TITANIUM	334.941	Radial	4135.045	1.013918	1.012411	1.018429	1.017175
VANADIUM	292.402	Radial	686.8962	0.9985534	1.000836	1.000982	0.9940145
ZINC	206.200	Axial	1822.210	1.011749	1.025509	1.018294	1.007076
CERIUM	535.353	Radial	361.2472	0.07216120	0.04736928	0.05375101	0.09887316
HOT WATER SOL. BORON	249.678	Radial	311.9337	0.9990383	1.010930	0.9969094	0.9994291
LANTHANUM	333.749	Radial	2.015678	-0.001005723	0.0007015495	0.003119721	-0.006825925

Sample ID: ICB-2 Units: mg/l
Analyzed: 03/13/25 08:34 Sequence: 11

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11148.01	11151.06	11141.83	11151.14
YTTRIUM	360.073	Axial	324264.0	325296.6	323570.9	323924.7
YTTRIUM	360.073	Radial	12577.56	12477.10	12596.69	12658.89
INDIUM	230.606	Axial	3324.517	3324.496	3323.509	3325.545

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	9.858787	-0.01629241	0.004169485	-0.03171673	-0.02132997
ANTIMONY	206.833	Axial	0.1254586	-0.001848629	-0.0007429968	-0.003171634	-0.001631256
ARSENIC	189.042	Axial	-0.5552896	0.0008989357	0.001288122	0.001236395	0.0001722897
BARIUM	233.527	Axial	-1.30123	-0.0002320136	-0.000007674538	-0.0003927160	-0.0002956503
BERYLLIUM	313.042	Radial	-8.21632	0.00004201911	0.00006161608	0.00003484420	0.00002959706
BORON	249.678	Radial	1.484964	-0.008037301	-0.003627169	-0.01003467	-0.01045006
CADMIUM	228.802	Axial	2.069158	0.00009738354	0.0002364460	0.0001590571	-0.0001033525
CALCIUM	317.933	Radial	84.44823	0.004115091	0.006079000	0.006938416	-0.0006721438
CERIUM	535.353	Radial	332.6115	-0.05153271	-0.02865017	-0.05859990	-0.06734805
CHROMIUM	267.716	Axial	3.796296	-0.00004709599	0.0006688691	-0.0005597591	-0.0002503979
COBALT	228.616	Axial	-4.71338	0.000001996109	0.0004705076	-0.0003486552	-0.0001158641
COPPER	324.754	Axial	219.4904	0.0003084417	0.0001801870	0.0001961940	0.0005489443
HOT WATER SOL. BORON	249.678	Radial	1.484964	-0.008037301	-0.003627169	-0.01003467	-0.01045006
IRON	259.940	Radial	42.13625	0.00009484786	0.0002527848	-0.0002615534	0.0002933122
LANTHANUM	333.749	Radial	4.691222	0.002578723	-0.001413487	0.001485610	0.007664046
LEAD	220.353	Axial	-0.9724588	0.0007511455	0.001130165	0.001433198	-0.0003099269
LITHIUM	670.784	Radial	-24.0678	-0.001407685	-0.001320615	-0.002225609	-0.0006768304
MAGNESIUM	279.079	Radial	1.424947	0.02365635	0.006825069	0.06110289	0.003041097
MANGANESE	257.610	Axial	17.44013	0.00002685001	0.00001423659	0.00003476485	0.00003154860
MOLYBDENUM	202.030	Axial	0.8730960	-0.000006463233	0.0005763161	0.0003248820	-0.0009205877
NICKEL	231.604	Axial	-5.24241	0.0001793407	-0.00006136082	0.0005379108	0.00006147207
PHOSPHORUS	177.495	Axial	0.1120106	-0.005054516	-0.0004240263	-0.009793748	-0.004945773
POTASSIUM	766.490	Radial	-65.3233	0.008853854	0.01707328	-0.005241034	0.01472932
SELENIUM	196.090	Axial	0.7510537	0.003421926	0.001811533	0.001297374	0.007156871
SILICON	251.611	Axial	20.96001	0.001086670	-0.001319978	0.002507685	0.002072305
SILVER	328.068	Axial	100.0647	-0.0005324745	-0.0009286115	0.0001832190	-0.0008520310
SODIUM	589.592	Radial	45.98149	-0.004443928	-0.01638085	-0.001167203	0.004216270
STRONTIUM	421.552	Radial	16.70991	0.000005098043	0.0001144036	-0.00006176238	-0.00003734709
SULFUR	182.034	Axial	1.905408	0.001397805	0.01111050	-0.002938094	-0.003978990
THALLIUM	190.856	Axial	0.6556015	-0.001422969	0.003009091	-0.004844925	-0.002433073
TIN	189.989	Axial	0.1752866	-0.0001734823	-0.001631779	0.001732291	-0.0006209591
TITANIUM	334.941	Radial	-1.02691	0.0004981974	-0.00002689611	0.00002100834	0.001500480
VANADIUM	292.402	Radial	-0.4714948	0.0003023682	0.001653105	0.001398616	-0.002144617
ZINC	206.200	Axial	6.531708	-0.0008991743	-0.001398594	-0.0001184480	-0.001180480

Sample ID: ICVLL-2 Units: mg/l
Analyzed: 03/13/25 08:42 Sequence: 14 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11181.14	11170.37	11172.99	11200.07
YTTRIUM	360.073	Axial	326211.3	328810.9	323826.1	325997.0
YTTRIUM	360.073	Radial	12550.50	12535.14	12520.86	12595.51
INDIUM	230.606	Axial	3315.293	3324.398	3306.822	3314.661

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	34.73676	0.2382022	0.2364133	0.2538717	0.2243216
ANTIMONY	206.833	Axial	2.363532	0.008486264	0.006341176	0.01025120	0.008866420
ARSENIC	189.042	Axial	0.5506296	0.01112877	0.009604026	0.008581982	0.01520030
BARIUM	233.527	Axial	22.62043	0.005441027	0.005250664	0.005356550	0.005715867
BERYLLIUM	313.042	Radial	55.07625	0.002053914	0.002075935	0.002084888	0.002000919
BORON	249.678	Radial	66.16317	0.2016307	0.1953846	0.2017458	0.2077617
CADMIUM	228.802	Axial	15.15737	0.002087075	0.002114039	0.001928939	0.002218246
CALCIUM	317.933	Radial	821.1415	0.9960711	0.9987965	1.005938	0.9834786
CHROMIUM	267.716	Axial	110.2222	0.01079324	0.01064244	0.01118636	0.01055093
COBALT	228.616	Axial	34.61411	0.009553317	0.009800472	0.009572223	0.009287256
COPPER	324.754	Axial	491.4240	0.01079713	0.01072930	0.01091173	0.01075035
IRON	259.940	Radial	98.05181	0.1073742	0.1087824	0.1079105	0.1054297
LEAD	220.353	Axial	2.261783	0.005777003	0.002765207	0.007911077	0.006654726
LITHIUM	670.784	Radial	98.22040	0.01428389	0.01514148	0.01398547	0.01372472
MAGNESIUM	279.079	Radial	53.85942	1.014870	1.025824	0.9977144	1.021073
MANGANESE	257.610	Axial	801.1579	0.01118510	0.01120657	0.01119375	0.01115497
MOLYBDENUM	202.030	Axial	4.997775	0.005227644	0.005393195	0.004846014	0.005443724
NICKEL	231.604	Axial	12.37967	0.009810832	0.009591485	0.01039770	0.009443308
PHOSPHORUS	177.495	Axial	10.55199	0.09368284	0.09620304	0.08756046	0.09728502
POTASSIUM	766.490	Radial	264.6821	0.9838818	0.9419863	1.027585	0.9820739
SELENIUM	196.090	Axial	1.245768	0.009063138	0.004704622	0.01349423	0.008990557
SILICON	251.611	Axial	763.5395	0.1838582	0.1822584	0.1844639	0.1848524
SILVER	328.068	Axial	175.3056	0.005369757	0.005613932	0.004819782	0.005675557
SODIUM	589.592	Radial	1278.697	1.025653	1.025827	1.030885	1.020247
STRONTIUM	421.552	Radial	452.1263	0.01058538	0.01074777	0.01056965	0.01043873
SULFUR	182.034	Axial	61.14702	0.9059231	0.9254447	0.8851732	0.9071515
THALLIUM	190.856	Axial	2.175230	0.01187856	0.01422385	0.01159145	0.009820380
TIN	189.989	Axial	13.81311	0.05218001	0.05018868	0.05395955	0.05239181
TITANIUM	334.941	Radial	207.0105	0.05144316	0.05111303	0.05191471	0.05130174
VANADIUM	292.402	Radial	10.57439	0.01631884	0.01751567	0.01255356	0.01888729
ZINC	206.200	Axial	98.05581	0.04925689	0.04920991	0.04981288	0.04874789
CERIUM	535.353	Radial	348.8755	0.01945699	0.04562642	0.01846127	-0.005716713
HOT WATER SOL. BORON	249.678	Radial	66.16317	0.2016307	0.1953846	0.2017458	0.2077617
LANTHANUM	333.749	Radial	2.192871	-0.0007623782	0.001679690	0.0006696083	-0.004636433

Sample ID: ICSA-2 Units: mg/l
Analyzed: 03/13/25 08:45 Sequence: 15 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9636.448	9628.086	9641.301	9639.958
YTTRIUM	360.073	Axial	274150.1	273063.2	274779.5	274607.5
YTTRIUM	360.073	Radial	11797.72	11842.25	11840.15	11710.76
INDIUM	230.606	Axial	2489.355	2492.486	2494.238	2481.343

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	46776.43	508.5792	508.8847	508.8674	507.9855
ANTIMONY	206.833	Axial	-0.4260286	-0.004712001	-0.003560192	-0.004893449	-0.005682363
ARSENIC	189.042	Axial	-1.10381	-0.005792129	-0.01402587	-0.006616164	0.003265651
BARIUM	233.527	Axial	7.355755	0.002101114	0.001681713	0.002128375	0.002493255
BERYLLIUM	313.042	Radial	-13.1786	-0.0001429453	-0.0002463687	-0.00009192596	-0.00009054129
BORON	249.678	Radial	-3.54104	-0.02507207	-0.02316674	-0.02688909	-0.02516037
CADMIUM	228.802	Axial	7.499974	0.001105337	0.001131414	0.001240206	0.0009443893
CALCIUM	373.690	Radial	212718.8	504.7244	504.4973	504.1338	505.5421
CERIUM	535.353	Radial	315.5948	-0.03537677	-0.05261518	-0.07329552	0.01978038
CHROMIUM	267.716	Axial	-21.5108	-0.002977348	-0.003128307	-0.003046045	-0.002757691
COBALT	228.616	Axial	0.2033915	0.001209249	0.001517745	0.001249858	0.0008601425
COPPER	324.754	Axial	-125.687	-0.01384132	-0.01364539	-0.01403966	-0.01383890
HOT WATER SOL. BORON	249.678	Radial	-3.54104	-0.02507207	-0.02316674	-0.02688909	-0.02516037
IRON	271.441	Radial	4987.189	199.7435	199.3164	199.5789	200.3352
LANTHANUM	333.749	Radial	-4.99935	-0.01093232	-0.01396169	-0.009597291	-0.009237973
LEAD	220.353	Axial	-5.39314	-0.008900102	-0.009012509	-0.01041232	-0.007275473
LITHIUM	670.784	Radial	-5.26750	0.0009581725	0.001743127	-0.0002679187	0.001399309
MAGNESIUM	279.079	Radial	25207.47	506.8968	506.2758	505.5816	508.8329
MANGANESE	257.610	Axial	112.1682	0.001630883	0.001576570	0.001651946	0.001664132
MOLYBDENUM	202.030	Axial	0.6886258	-0.0001039387	0.00001737262	0.001192259	-0.001521447
NICKEL	231.604	Axial	-17.1071	-0.009421016	-0.01025318	-0.009830222	-0.008179647
PHOSPHORUS	177.495	Axial	1.326423	0.008440357	0.006558925	-0.002844411	0.02160656
POTASSIUM	766.490	Radial	-71.7665	-0.02413408	-0.05615029	0.001800898	-0.01805284
SELENIUM	196.090	Axial	0.3917994	-0.000002577646	-0.009754002	-0.0003425868	0.01008886
SILICON	251.611	Axial	-82.8175	-0.02774185	-0.02740061	-0.02785833	-0.02796661
SILVER	328.068	Axial	80.82027	-0.001051698	-0.001705897	-0.001380621	-0.00006857471
SODIUM	589.592	Radial	74.47309	0.02347080	0.01409121	0.03176479	0.02455642
STRONTIUM	421.552	Radial	255.3097	0.006198191	0.006156709	0.006406421	0.006031442
SULFUR	182.034	Axial	-8.52515	-0.1788250	-0.1721917	-0.1758299	-0.1884535
THALLIUM	190.856	Axial	-0.4214962	-0.01159576	-0.006937048	-0.01331638	-0.01453384
TIN	189.989	Axial	-1.51840	-0.007612868	-0.008278642	-0.007192522	-0.007367439
TITANIUM	334.941	Radial	-55.9633	-0.01382504	-0.01546715	-0.01230987	-0.01369811
VANADIUM	292.402	Radial	-4.53963	-0.006042197	-0.002109109	-0.007317879	-0.008699605
ZINC	206.200	Axial	12.23115	0.003288463	0.002885818	0.003341095	0.003638476

Sample ID: ICSAB-2 Units: mg/l
Analyzed: 03/13/25 08:48 Sequence: 16 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9645.490	9642.854	9616.382	9677.234
YTTRIUM	360.073	Axial	275325.5	275592.6	274714.3	275669.6
YTTRIUM	360.073	Radial	11887.19	11920.25	11878.18	11863.14
INDIUM	230.606	Axial	2486.230	2492.669	2472.301	2493.721

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	47874.37	516.6040	515.8881	517.1388	516.7849
ANTIMONY	206.833	Axial	93.54599	0.4984244	0.5050786	0.5030232	0.4871714
ARSENIC	189.042	Axial	46.47029	0.5037884	0.5102202	0.5122836	0.4888612
BARIUM	233.527	Axial	1867.736	0.5134670	0.5136655	0.5137894	0.5129462
BERYLLIUM	313.042	Radial	15033.83	0.5049913	0.5039231	0.5057014	0.5053496
BORON	249.678	Radial	292.0139	0.9866664	0.9859119	0.9994736	0.9746137
CADMIUM	228.802	Axial	5909.864	1.041803	1.043678	1.041846	1.039885
CALCIUM	373.690	Radial	217906.2	513.1400	512.4741	513.2219	513.7241
CERIUM	535.353	Radial	309.4557	-0.07318607	-0.1355298	-0.04615905	-0.03786932
CHROMIUM	267.716	Axial	4201.882	0.4957426	0.4958362	0.4971818	0.4942098
COBALT	228.616	Axial	1541.508	0.5005466	0.4999646	0.5020059	0.4996693
COPPER	324.754	Axial	11956.74	0.5276830	0.5280450	0.5267563	0.5282477
HOT WATER SOL. BORON	249.678	Radial	292.0139	0.9866664	0.9859119	0.9994736	0.9746137
IRON	271.441	Radial	5118.669	203.4645	203.1062	202.8730	204.4144
LANTHANUM	333.749	Radial	-6.03525	-0.01236836	-0.01026838	-0.01302583	-0.01381089
LEAD	220.353	Axial	466.8922	0.9696765	0.9665827	0.9713316	0.9711151
LITHIUM	670.784	Radial	-12.8290	-0.00006475300	0.001152824	0.0001511469	-0.001498229
MAGNESIUM	279.079	Radial	25898.64	516.8698	516.0229	516.7407	517.8458
MANGANESE	257.610	Axial	30776.48	0.5077575	0.5081601	0.5082801	0.5068324
MOLYBDENUM	202.030	Axial	339.5223	0.4986634	0.4987567	0.5004125	0.4968209
NICKEL	231.604	Axial	1331.772	0.9744007	0.9728865	0.9775892	0.9727262
PHOSPHORUS	177.495	Axial	1.413355	0.009401956	0.003100627	0.02336606	0.001739176
POTASSIUM	766.490	Radial	-47.2679	0.05399752	0.04407815	0.08513245	0.03278195
SELENIUM	196.090	Axial	40.51488	0.5327401	0.5410360	0.5305675	0.5266169
SILICON	251.611	Axial	3401.790	0.9665964	0.9633991	0.9721779	0.9642122
SILVER	328.068	Axial	10149.32	0.9181975	0.9048964	0.9216008	0.9280954
SODIUM	589.592	Radial	146.6575	0.08665133	0.08003801	0.09578508	0.08413088
STRONTIUM	421.552	Radial	261.2584	0.006301611	0.006412411	0.006167007	0.006325416
SULFUR	182.034	Axial	-8.86917	-0.1847989	-0.1857438	-0.1953638	-0.1732891
THALLIUM	190.856	Axial	44.49287	0.4554221	0.4497553	0.4554639	0.4610473
TIN	189.989	Axial	107.1990	0.4762115	0.4764723	0.4742238	0.4779384
TITANIUM	334.941	Radial	1887.671	0.4887735	0.4903566	0.4891143	0.4868495
VANADIUM	292.402	Radial	310.9814	0.4775126	0.4789674	0.4786815	0.4748890
ZINC	206.200	Axial	1534.468	0.9705040	0.9711646	0.9740568	0.9662906

Sample ID: ICSA-2 Units: mg/l
Analyzed: 03/13/25 13:48 Sequence: 95 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9423.827	9528.141	9229.112	9514.229
YTTRIUM	360.073	Axial	272678.7	272574.3	272587.9	272873.9
YTTRIUM	360.073	Radial	11934.30	11936.16	11979.67	11887.07
INDIUM	230.606	Axial	2454.669	2474.021	2413.212	2476.774

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	47317.46	508.5764	508.6895	508.4446	508.5950
ANTIMONY	206.833	Axial	0.2447552	-0.001049451	0.0004025213	0.002864444	-0.006415318
ARSENIC	189.042	Axial	-1.12589	-0.006348813	-0.003123066	-0.01124162	-0.004681749
BARIUM	233.527	Axial	7.468821	0.002177823	0.002560153	0.002103724	0.001869591
BERYLLIUM	313.042	Radial	-8.61778	0.00001444088	0.00001738427	0.00002095861	0.000004979764
BORON	249.678	Radial	-2.70594	-0.02208973	-0.02222251	-0.02007419	-0.02397249
CADMIUM	228.802	Axial	5.229045	0.0007240974	0.001079669	0.0006151941	0.0004774294
CALCIUM	373.690	Radial	215099.5	504.5300	504.7616	504.1750	504.6533
CERIUM	535.353	Radial	305.7569	-0.09502639	-0.1116473	-0.05560185	-0.1178300
CHROMIUM	267.716	Axial	-20.2452	-0.002886483	-0.002309028	-0.003334498	-0.003015924
COBALT	228.616	Axial	1.633812	0.001676500	0.002177919	0.001240313	0.001611268
COPPER	324.754	Axial	-113.030	-0.01338605	-0.01325091	-0.01318162	-0.01372562
HOT WATER SOL. BORON	249.678	Radial	-2.70594	-0.02208973	-0.02222251	-0.02007419	-0.02397249
IRON	271.441	Radial	4988.227	197.4968	197.5609	197.4771	197.4523
LANTHANUM	333.749	Radial	-6.25900	-0.01264845	-0.01061081	-0.01425461	-0.01307993
LEAD	220.353	Axial	-6.50734	-0.01138247	-0.01454076	-0.009339123	-0.01026752
LITHIUM	670.784	Radial	-3.57112	0.001192217	0.0005682123	0.002143377	0.0008650608
MAGNESIUM	279.079	Radial	25350.71	503.9371	503.2718	503.8631	504.6765
MANGANESE	257.610	Axial	119.1550	0.001789873	0.001885378	0.001707630	0.001776612
MOLYBDENUM	202.030	Axial	2.021527	0.001915019	0.0005259434	0.0006444583	0.004574655
NICKEL	231.604	Axial	-17.5956	-0.009958574	-0.01038172	-0.009785688	-0.009708319
PHOSPHORUS	177.495	Axial	1.803257	0.01414468	0.006692477	0.01623378	0.01950778
POTASSIUM	766.490	Radial	-64.6772	0.0004250671	0.01162462	0.008373183	-0.01872260
SELENIUM	196.090	Axial	2.765757	0.03230963	0.02829663	0.02506040	0.04357185
SILICON	251.611	Axial	-71.7081	-0.02503344	-0.02450752	-0.02523842	-0.02535440
SILVER	328.068	Axial	86.65204	-0.0003269706	-0.001326992	0.0008995892	-0.0005535086
SODIUM	589.592	Radial	110.6014	0.05445837	0.05661227	0.05126597	0.05549688
STRONTIUM	421.552	Radial	259.2104	0.006222723	0.006295308	0.006270182	0.006102679
SULFUR	182.034	Axial	-7.71615	-0.1675301	-0.1731092	-0.1629851	-0.1664960
THALLIUM	190.856	Axial	-0.2510383	-0.009840639	-0.005798697	-0.01867760	-0.005045617
TIN	189.989	Axial	-0.5090993	-0.003175890	-0.002250369	-0.003926603	-0.003350700
TITANIUM	334.941	Radial	-52.4843	-0.01276186	-0.01285623	-0.01311728	-0.01231205
VANADIUM	292.402	Radial	-6.36331	-0.008730400	-0.008632072	-0.01077890	-0.006780232
ZINC	206.200	Axial	26.18861	0.01254922	0.01170076	0.01330700	0.01263991

Sample ID: ICSAB-2 Units: mg/l
Analyzed: 03/13/25 13:50 Sequence: 96 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9563.453	9543.188	9573.137	9574.033
YTTRIUM	360.073	Axial	272087.0	271085.2	272924.4	272251.5
YTTRIUM	360.073	Radial	11885.17	11838.77	11933.43	11883.31
INDIUM	230.606	Axial	2477.571	2477.065	2478.441	2477.207

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	47938.49	517.3846	518.4950	517.3392	516.3196
ANTIMONY	206.833	Axial	92.13152	0.4950657	0.4955518	0.4933042	0.4963411
ARSENIC	189.042	Axial	45.02611	0.4924311	0.4915027	0.4983895	0.4874010
BARIUM	233.527	Axial	1847.967	0.5123907	0.5135287	0.5130859	0.5105575
BERYLLIUM	313.042	Radial	15061.79	0.5060175	0.5074037	0.5050764	0.5055725
BORON	249.678	Radial	288.6002	0.9751270	0.9642496	0.9846633	0.9764682
CADMIUM	228.802	Axial	5856.553	1.041260	1.042235	1.042674	1.038870
CALCIUM	373.690	Radial	218717.2	515.1403	517.0356	514.2906	514.0946
CERIUM	535.353	Radial	314.6544	-0.05004783	-0.03627326	-0.05429658	-0.05957364
CHROMIUM	267.716	Axial	4223.401	0.5025593	0.5032962	0.5027514	0.5016305
COBALT	228.616	Axial	1523.237	0.4963475	0.4952807	0.4988408	0.4949210
COPPER	324.754	Axial	11879.32	0.5287814	0.5286756	0.5301957	0.5274729
HOT WATER SOL. BORON	249.678	Radial	288.6002	0.9751270	0.9642496	0.9846633	0.9764682
IRON	271.441	Radial	5072.682	201.6710	202.2359	201.6998	201.0773
LANTHANUM	333.749	Radial	-5.65902	-0.01182209	-0.009586282	-0.01463851	-0.01124149
LEAD	220.353	Axial	465.8890	0.9709681	0.9752680	0.9675144	0.9701221
LITHIUM	670.784	Radial	-4.74840	0.001032958	0.001432973	0.0008910793	0.0007748211
MAGNESIUM	279.079	Radial	25954.13	518.0682	520.6628	517.3311	516.2108
MANGANESE	257.610	Axial	30368.10	0.5053160	0.5060664	0.5048762	0.5050053
MOLYBDENUM	202.030	Axial	335.0630	0.4963258	0.4957775	0.4981905	0.4950093
NICKEL	231.604	Axial	1323.312	0.9715937	0.9701780	0.9749836	0.9696195
PHOSPHORUS	177.495	Axial	1.704319	0.01272536	0.007737130	0.02091592	0.009523015
POTASSIUM	766.490	Radial	-62.3205	0.007049724	-0.01024406	-0.05379857	0.08519180
SELENIUM	196.090	Axial	38.75924	0.5138425	0.5169211	0.5295010	0.4951055
SILICON	251.611	Axial	3365.646	0.9645136	0.9649600	0.9653589	0.9632220
SILVER	328.068	Axial	10045.85	0.9166392	0.9277819	0.9128889	0.9092469
SODIUM	589.592	Radial	135.2719	0.07660769	0.07150766	0.08168097	0.07663445
STRONTIUM	421.552	Radial	270.4501	0.006538643	0.006476452	0.006532755	0.006606720
SULFUR	182.034	Axial	-8.77522	-0.1844321	-0.1722739	-0.1905098	-0.1905127
THALLIUM	190.856	Axial	43.96733	0.4553938	0.4536826	0.4594329	0.4530657
TIN	189.989	Axial	105.1948	0.4713137	0.4729671	0.4719660	0.4690081
TITANIUM	334.941	Radial	1886.077	0.4884564	0.4908558	0.4839272	0.4905861
VANADIUM	292.402	Radial	310.5217	0.4768964	0.4808275	0.4772574	0.4726045
ZINC	206.200	Axial	1506.453	0.9609054	0.9600782	0.9645363	0.9581016

Sample ID: CCV Units: mg/l
Analyzed: 03/13/25 17:07 Sequence: 152 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10483.67	10503.10	10453.89	10494.01
YTTRIUM	360.073	Axial	302800.4	303824.5	301374.3	303202.3
YTTRIUM	360.073	Radial	12223.67	12210.70	12240.60	12219.72
INDIUM	230.606	Axial	2972.061	2978.236	2965.816	2972.132

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	949.0570	9.844502	9.828465	9.836149	9.868893
ANTIMONY	206.833	Axial	102.0955	0.5004838	0.4974048	0.5041188	0.4999278
ARSENIC	189.042	Axial	101.4000	1.005258	1.003246	1.006954	1.005574
BARIUM	233.527	Axial	2050.546	0.5186570	0.5154747	0.5217881	0.5187083
BERYLLIUM	313.042	Radial	6206.439	0.2029182	0.2024133	0.2025029	0.2038385
BORON	249.678	Radial	303.0342	0.9958402	1.003190	0.9970497	0.9872810
CADMIUM	228.802	Axial	3092.877	0.5015178	0.4986475	0.5042562	0.5016498
CALCIUM	373.690	Radial	22961.93	52.53616	52.52575	52.35421	52.72852
CHROMIUM	267.716	Axial	9565.408	1.038787	1.035754	1.044260	1.036346
COBALT	228.616	Axial	3642.462	0.9882934	0.9827846	0.9919490	0.9901466
COPPER	324.754	Axial	25107.48	1.027113	1.029768	1.024294	1.027278
IRON	259.940	Radial	5133.911	10.01619	10.02594	9.956227	10.06641
LEAD	220.353	Axial	287.0210	0.4997624	0.4961377	0.5025813	0.5005682
LITHIUM	670.784	Radial	7869.986	1.038853	1.037838	1.033687	1.045033
MAGNESIUM	279.079	Radial	497.6257	9.654796	9.664351	9.615425	9.684613
MANGANESE	257.610	Axial	68133.52	1.034445	1.031161	1.039354	1.032820
MOLYBDENUM	202.030	Axial	189.3827	0.2553672	0.2551127	0.2568117	0.2541773
NICKEL	231.604	Axial	1636.766	1.001705	0.9955974	1.005554	1.003964
PHOSPHORUS	177.495	Axial	96.52571	0.9675604	0.9564505	0.9595904	0.9866405
POTASSIUM	766.490	Radial	16744.08	51.01760	51.03231	50.80342	51.21707
SELENIUM	196.090	Axial	81.59690	0.9916133	0.9886757	1.012642	0.9735222
SILICON	251.611	Axial	8219.951	2.153907	2.122415	2.158937	2.180369
SILVER	328.068	Axial	6342.024	0.5243025	0.5226758	0.5244177	0.5258140
SODIUM	818.326	Radial	3478.128	52.07682	52.11397	51.91986	52.19663
STRONTIUM	421.552	Radial	41044.54	1.023553	1.024859	1.019455	1.026346
SULFUR	182.034	Axial	292.3280	4.733011	4.716589	4.742459	4.739984
THALLIUM	190.856	Axial	110.7847	1.040195	1.041235	1.043436	1.035914
TIN	189.989	Axial	127.9386	0.5229879	0.5237213	0.5205273	0.5247152
TITANIUM	334.941	Radial	3985.696	1.002822	1.005768	0.9978815	1.004815
VANADIUM	292.402	Radial	672.1594	1.002621	1.002370	1.002002	1.003491
ZINC	206.200	Axial	1773.776	1.032447	1.028787	1.035786	1.032768
CERIUM	535.353	Radial	347.6111	0.05301167	0.01154020	0.04286913	0.1046257
HOT WATER SOL. BORON	249.678	Radial	303.0342	0.9958402	1.003190	0.9970497	0.9872810
LANTHANUM	333.749	Radial	3.977527	0.001789022	0.0008866718	0.005095443	-0.0006150497

Sample ID: CCB Units: mg/l
Analyzed: 03/13/25 17:10 Sequence: 153

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10839.88	10751.70	10890.52	10877.41
YTTRIUM	360.073	Axial	320546.1	320998.2	319041.1	321599.1
YTTRIUM	360.073	Radial	12387.35	12324.15	12387.02	12450.87
INDIUM	230.606	Axial	3282.991	3261.122	3298.857	3288.995

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	11.76597	0.004898071	-0.003713674	0.002098398	0.01630949
ANTIMONY	206.833	Axial	-0.3751065	-0.004207169	-0.001759371	-0.003703453	-0.007158682
ARSENIC	189.042	Axial	-0.3435534	0.002772932	0.002429958	-0.006595033	0.01248387
BARIUM	233.527	Axial	2.114868	0.0005924334	-0.00001780520	0.0005222031	0.001272902
BERYLLIUM	313.042	Radial	-8.92790	0.00001484012	-0.00001977579	-0.00001545544	0.00007975158
BORON	249.678	Radial	4.539959	0.002043896	0.0003447683	0.000004073176	0.005782846
CADMIUM	228.802	Axial	7.599759	0.0009722503	0.0004891837	0.0007799524	0.001647615
CALCIUM	317.933	Radial	75.59491	-0.006236237	-0.007069102	-0.007019898	-0.004619710
CERIUM	535.353	Radial	338.2023	-0.006522890	0.02935068	-0.03038757	-0.01853178
CHROMIUM	267.716	Axial	6.185185	0.0002145351	0.00003894535	-0.0001239696	0.0007286297
COBALT	228.616	Axial	2.884195	0.001848123	0.0004100729	0.001242029	0.003892266
COPPER	324.754	Axial	211.2438	0.0002210908	0.0001161924	0.0003249650	0.0002221150
HOT WATER SOL. BORON	249.678	Radial	4.539959	0.002043896	0.0003447683	0.000004073176	0.005782846
IRON	259.940	Radial	41.76385	0.0006105334	0.001389945	0.0001661546	0.0002755003
LANTHANUM	333.749	Radial	3.817746	0.001486132	-0.002531863	0.002033869	0.004956390
LEAD	220.353	Axial	-0.6374038	0.001257667	0.0009945471	0.0005081177	0.002270338
LITHIUM	670.784	Radial	-19.8873	-0.0009142232	-0.002057576	-0.0008546427	0.0001695494
MAGNESIUM	279.079	Radial	0.07396459	-0.001877449	-0.04650669	0.03296862	0.007905720
MANGANESE	257.610	Axial	47.78386	0.0004791943	0.0003753320	0.0004365285	0.0006257224
MOLYBDENUM	202.030	Axial	1.036111	0.0002372338	-0.0001213418	0.0001155251	0.0007175182
NICKEL	231.604	Axial	-2.32577	0.001751920	0.0005521012	0.0005857105	0.004117947
PHOSPHORUS	177.495	Axial	1.166780	0.005265985	0.004817830	0.003805214	0.007174910
POTASSIUM	766.490	Radial	-63.1354	0.01244084	0.001451046	0.03972926	-0.003857799
SELENIUM	196.090	Axial	0.4809432	0.0004931436	0.004442109	-0.002849060	-0.0001136183
SILICON	251.611	Axial	77.36185	0.01554749	0.01378477	0.01467564	0.01818206
SILVER	328.068	Axial	103.2074	-0.00005247332	-0.00001604027	-0.0001668312	0.00002545146
SODIUM	589.592	Radial	66.85181	0.01385022	0.01008803	0.01331140	0.01815122
STRONTIUM	421.552	Radial	12.69988	-0.00008778797	-0.0001338167	0.00001935285	-0.0001489000
SULFUR	182.034	Axial	2.153759	0.006166450	0.01207089	-0.002392958	0.008821419
THALLIUM	190.856	Axial	0.6958088	-0.0009949604	0.0005362431	-0.003500206	-0.00002091875
TIN	189.989	Axial	0.4576978	0.0009617766	0.0004072224	-0.00007652854	0.002554636
TITANIUM	334.941	Radial	-0.5269543	0.0006254298	0.001853614	0.0003596728	-0.0003369977
VANADIUM	292.402	Radial	-1.96273	-0.001904433	0.0006640527	-0.004172630	-0.002204723
ZINC	206.200	Axial	6.509451	-0.0008154111	-0.002323363	-0.001608141	0.001485271

Sample ID: BLANK DF: 1x Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 17:34 Sequence: 154

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10890.61	10872.08	10869.13	10930.62
YTTRIUM	360.073	Axial	321124.4	319297.2	318956.8	325119.3
YTTRIUM	360.073	Radial	12722.08	12708.97	12715.31	12741.97
INDIUM	230.606	Axial	3271.368	3264.646	3266.378	3283.080

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.09989013	0.005104200	0.009113294	0.005055300	0.001144006
BARIUM	233.527	Axial	-0.7100307	-0.00009542342	0.00007208748	-0.0002904933	-0.00006786442
BORON	249.678	Radial	2.689904	-0.004257589	-0.007924211	-0.001823859	-0.003024696
CADMIUM	228.802	Axial	2.362833	0.0001507051	-0.00005344867	0.0003546140	0.0001509498
CHROMIUM	267.716	Axial	14.11111	0.001040867	0.001148246	0.0008837906	0.001090563
COBALT	228.616	Axial	-5.18895	-0.0001335760	0.00002275799	-0.0002773942	-0.0001460918
COPPER	324.754	Axial	221.2563	0.0005795444	0.0001850433	0.0008520727	0.0007015172
LEAD	220.353	Axial	-1.09687	0.0005297556	-0.0003290280	0.001003336	0.0009149588
LITHIUM	670.784	Radial	0.1204179	0.001691154	0.001059089	0.002530032	0.001484341
MOLYBDENUM	202.030	Axial	0.9945092	0.0001766650	-0.0003934243	0.000003276598	0.0009201426
NICKEL	231.604	Axial	-4.69618	0.0004357593	0.0009850893	-0.00008697951	0.0004091681
PHOSPHORUS	177.495	Axial	2.144446	0.01471460	0.01744298	0.01582956	0.01087125
POTASSIUM	766.490	Radial	-50.2269	0.05503911	0.02137130	0.08570155	0.05804449
SELENIUM	196.090	Axial	0.04786252	-0.004631690	0.003949619	-0.006906247	-0.01093844
SILVER	328.068	Axial	104.4645	0.000009767685	0.0003947499	-0.0004428582	0.00007741130
ZINC	206.200	Axial	6.664006	-0.0007392396	-0.0005802753	-0.0004492813	-0.001188162
ALUMINUM	308.215	Radial	10.12476	-0.01480610	-0.009262657	0.006392141	-0.04154778
ANTIMONY	206.833	Axial	0.4496495	-0.0003017719	-0.003548854	0.0004030284	0.002240509
BERYLLIUM	313.042	Radial	-9.34730	0.000009460566	0.00006454715	-0.000003811380	-0.00003235407
CALCIUM	317.933	Radial	86.43307	0.005446351	0.0007998901	0.008475563	0.007063601
IRON	259.940	Radial	45.46556	0.005470775	0.007107572	0.003296347	0.006008406
MAGNESIUM	279.079	Radial	1.960320	0.03333708	0.02168351	0.02367218	0.05465554
MANGANESE	257.610	Axial	41.21744	0.0003803124	0.0003443172	0.0004109510	0.0003856691
SILICON	251.611	Axial	63.01032	0.01183464	0.01118886	0.01197479	0.01234027
SODIUM	589.592	Radial	56.37730	0.003752342	0.01007003	0.01158234	-0.01039534
STRONTIUM	421.552	Radial	8.236746	-0.0002030131	-0.0002385195	-0.0001460279	-0.0002244918
SULFUR	182.034	Axial	2.439386	0.01046618	0.01232719	0.01198921	0.007082136
THALLIUM	190.856	Axial	0.4594002	-0.003132748	-0.009309079	-0.001168736	0.001079570
TIN	189.989	Axial	3.396878	0.01253986	0.01145672	0.01362364	0.01253921
TITANIUM	334.941	Radial	-0.5268108	0.0006258071	0.001175539	0.0008528542	-0.0001509718
VANADIUM	292.402	Radial	-1.44792	-0.001098798	-0.004949976	0.00002227024	0.001631312
CERIUM	535.353	Radial	336.9123	-0.04962902	0.009752293	-0.08783318	-0.07080616
LANTHANUM	333.749	Radial	1.082726	-0.002293948	-0.002679787	-0.004682015	0.0004799585

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 17:36 Sequence: 155

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10678.69	10685.24	10672.36	10678.47
YTTRIUM	360.073	Axial	308814.4	305579.8	310279.7	310583.8
YTTRIUM	360.073	Radial	12588.79	12563.88	12533.30	12669.20
INDIUM	230.606	Axial	3132.499	3135.576	3128.061	3133.859

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	101.5442	0.9884026	0.9893087	0.9944740	0.9814252
BARIUM	233.527	Axial	4235.723	1.051713	1.049785	1.056295	1.049059
BORON	249.678	Radial	301.5196	0.9616843	0.9744475	0.9507726	0.9598328
CADMIUM	228.802	Axial	6110.764	0.9729777	0.9707749	0.9768162	0.9713420
CHROMIUM	267.716	Axial	9955.282	1.061383	1.064045	1.063541	1.056564
COBALT	228.616	Axial	3720.750	0.9578604	0.9559736	0.9600819	0.9575258
COPPER	324.754	Axial	26000.33	1.044356	1.040515	1.049517	1.043037
LEAD	220.353	Axial	582.0580	0.9594791	0.9595937	0.9583011	0.9605425
LITHIUM	670.784	Radial	8114.983	1.040144	1.043926	1.044168	1.032340
MOLYBDENUM	202.030	Axial	784.5005	1.041941	1.038218	1.047800	1.039806
NICKEL	231.604	Axial	1657.951	0.9628164	0.9615591	0.9671069	0.9597831
PHOSPHORUS	177.495	Axial	96.53452	0.9498705	0.9578328	0.9476511	0.9441277
POTASSIUM	766.490	Radial	3309.723	9.954744	9.975140	9.942950	9.946141
SELENIUM	196.090	Axial	81.05840	0.9669295	0.9505846	0.9813125	0.9688915
SILVER	328.068	Axial	2457.736	0.1942464	0.1923086	0.1956930	0.1947375
ZINC	206.200	Axial	1727.999	0.9872319	0.9879597	0.9863951	0.9873410
ALUMINUM	308.215	Radial	989.6232	9.969259	10.03363	9.984614	9.889528
ANTIMONY	206.833	Axial	197.7545	0.9538890	0.9564518	0.9493918	0.9558233
BERYLLIUM	313.042	Radial	31740.47	1.006466	1.010183	1.008373	1.000843
CALCIUM	317.933	Radial	7343.367	9.746111	9.775452	9.784419	9.678462
IRON	259.940	Radial	5294.664	10.03051	10.03534	10.08712	9.969071
MAGNESIUM	279.079	Radial	499.1400	9.403409	9.454827	9.423302	9.332099
MANGANESE	257.610	Axial	71234.07	1.061767	1.062304	1.062313	1.060684
SILICON	251.611	Axial	3621.994	0.9294279	0.9241904	0.9326840	0.9314094
SODIUM	589.592	Radial	12348.57	10.24346	10.26437	10.27146	10.19454
STRONTIUM	421.552	Radial	42205.55	1.021990	1.025918	1.022591	1.017461
SULFUR	182.034	Axial	571.8751	9.115549	9.098013	9.161132	9.087502
THALLIUM	190.856	Axial	114.5812	1.055072	1.071670	1.046109	1.047438
TIN	189.989	Axial	260.7181	1.047158	1.046065	1.051987	1.043423
TITANIUM	334.941	Radial	4138.358	1.011044	1.015051	1.013619	1.004461
VANADIUM	292.402	Radial	682.4069	0.9884042	0.9941366	0.9858543	0.9852216
CERIUM	535.353	Radial	334.0462	-0.04692861	-0.08520626	-0.02928423	-0.02629534
LANTHANUM	333.749	Radial	5.018603	0.003043455	0.002670134	0.005404236	0.001055995

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834825-01 DF: 1x Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 17:39 Sequence: 156

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10936.81	10909.05	11006.26	10895.13
YTTRIUM	360.073	Axial	311726.7	311988.8	309808.8	313382.6
YTTRIUM	360.073	Radial	12993.10	13008.10	13057.10	12914.10
INDIUM	230.606	Axial	2941.234	2941.067	2957.276	2925.359

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.395554	0.01925333	0.02201939	0.01109425	0.02464635
BARIUM	233.527	Axial	4245.102	1.029196	1.034694	1.019424	1.033470
BORON	249.678	Radial	10.20334	0.01908991	0.02067673	0.01891497	0.01767804
CADMIUM	228.802	Axial	12.98156	0.001801909	0.001186699	0.001417253	0.002801773
CHROMIUM	267.716	Axial	2020.839	0.2100212	0.2111356	0.2090748	0.2098531
COBALT	228.616	Axial	190.6250	0.05335071	0.05283555	0.05249295	0.05472364
COPPER	324.754	Axial	3434.283	0.1275478	0.1286367	0.1263077	0.1276989
LEAD	220.353	Axial	82.42461	0.1466276	0.1454433	0.1461351	0.1483045
LITHIUM	670.784	Radial	961.1611	0.1208423	0.1203969	0.1217902	0.1203399
MOLYBDENUM	202.030	Axial	6.458476	0.007265552	0.006338985	0.007475814	0.007981858
NICKEL	231.604	Axial	174.4623	0.1106066	0.1084524	0.1101852	0.1131821
PHOSPHORUS	177.495	Axial	289.8309	2.796473	2.821936	2.760182	2.807301
POTASSIUM	766.490	Radial	7871.646	22.67652	22.46594	22.72227	22.84134
SELENIUM	196.090	Axial	-1.31890	-0.02063372	-0.01210604	-0.02645545	-0.02333966
SILVER	328.068	Axial	64.07920	-0.003279364	-0.004373221	-0.002627602	-0.002837270
ZINC	206.200	Axial	719.5228	0.3987134	0.3952712	0.3975308	0.4033382
ALUMINUM	308.215	Radial	15042.08	148.4195	147.4822	148.4217	149.3547
ANTIMONY	206.833	Axial	4.692789	0.01973644	0.01719034	0.01780297	0.02421601
BERYLLIUM	313.042	Radial	190.2072	0.006144753	0.006090320	0.006087416	0.006256524
CALCIUM	373.690	Radial	12264.77	26.37368	26.26138	26.31464	26.54503
IRON	271.441	Radial	5161.979	187.7284	186.7239	186.9023	189.5590
MAGNESIUM	279.079	Radial	1516.375	27.68445	27.38676	27.75184	27.91475
MANGANESE	257.610	Axial	147599.5	2.148369	2.159948	2.133588	2.151571
SILICON	251.611	Axial	73681.84	18.53868	18.66257	18.35368	18.59981
SODIUM	589.592	Radial	1284.808	0.9941844	1.000234	0.9894545	0.9928645
STRONTIUM	421.552	Radial	11045.14	0.2588313	0.2571054	0.2593325	0.2600559
SULFUR	182.034	Axial	40.35497	0.6022317	0.6085207	0.5914432	0.6067311
THALLIUM	190.856	Axial	-0.9977938	-0.01639209	-0.01952489	-0.02179429	-0.007857097
TIN	189.989	Axial	4.727880	0.01770634	0.01843891	0.01785253	0.01682757
TITANIUM	334.941	Radial	18364.19	4.344419	4.316715	4.352628	4.363914
VANADIUM	292.402	Radial	268.9185	0.3779908	0.3768710	0.3771803	0.3799209
CERIUM	535.353	Radial	589.9570	0.9442854	0.9130372	0.9125172	1.007302
LANTHANUM	333.749	Radial	358.7202	0.4654006	0.4569693	0.4693059	0.4699265

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1834825-01 Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 17:42 Sequence: 157

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10913.15	10895.69	10959.09	10884.68
YTTRIUM	360.073	Axial	318902.0	318641.9	319400.7	318663.3
YTTRIUM	360.073	Radial	12633.88	12629.06	12676.60	12595.98
INDIUM	230.606	Axial	3168.958	3168.958	3171.157	3166.759

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.1867657	0.007805254	0.005715573	0.06022515	0.05113807
BARIUM	233.527	Axial	810.0023	0.1968648	0.9865212	0.9780953	0.9883558
BORON	249.678	Radial	4.219509	0.0007191968	-0.006007080	0.03331747	-0.01652244
CADMIUM	228.802	Axial	3.669829	0.0003540282	0.002415236	0.0007411478	0.002154040
CHROMIUM	267.716	Axial	384.6894	0.03971350	0.2002332	0.1998444	0.1956248
COBALT	228.616	Axial	31.53814	0.009160038	0.04492262	0.04645895	0.04601900
COPPER	324.754	Axial	808.0226	0.02380524	0.1218833	0.1181000	0.1170953
LEAD	220.353	Axial	16.07175	0.02838486	0.1309953	0.1437142	0.1510634
LITHIUM	670.784	Radial	161.1877	0.02222950	0.1086123	0.1106334	0.1141968
MOLYBDENUM	202.030	Axial	1.494394	0.0008249856	0.003894044	0.005716412	0.002764328
NICKEL	231.604	Axial	28.62879	0.01942102	0.09589981	0.09867641	0.09673901
PHOSPHORUS	177.495	Axial	53.88637	0.5160748	2.608069	2.543732	2.589321
POTASSIUM	766.490	Radial	1380.740	4.255774	21.36750	21.32373	21.14537
SELENIUM	196.090	Axial	-0.4435504	-0.01039010	-0.03408388	-0.1001809	-0.02158671
SILVER	328.068	Axial	95.52156	-0.0007291658	-0.002097674	-0.003891492	-0.004948321
ZINC	206.200	Axial	137.2463	0.07258460	0.3608341	0.3642287	0.3637063
ALUMINUM	308.215	Radial	2742.540	27.73418	138.8616	139.3575	137.7937
ANTIMONY	206.833	Axial	0.3253031	-0.0008939604	-0.003320373	0.003869458	-0.01395849
BERYLLIUM	313.042	Radial	25.17682	0.001097843	0.005330788	0.005585095	0.005551763
CALCIUM	317.933	Radial	3570.720	4.665686	23.31070	23.31728	23.35732
IRON	271.441	Radial	959.9081	35.92262	179.8522	179.3731	179.6139
MAGNESIUM	279.079	Radial	279.1680	5.238992	26.33140	26.16198	26.09151
MANGANESE	257.610	Axial	28488.50	0.4153784	2.081621	2.062725	2.086330
SILICON	251.611	Axial	14342.79	3.613234	18.05295	17.84416	18.30139
SODIUM	589.592	Radial	268.1089	0.1797997	0.9219894	0.8977330	0.8772736
STRONTIUM	421.552	Radial	2029.366	0.04858272	0.2432759	0.2434581	0.2420066
SULFUR	182.034	Axial	8.278331	0.1017206	0.5481643	0.5240511	0.4535929
THALLIUM	190.856	Axial	0.09835343	-0.006326382	-0.07870751	0.004870607	-0.02105883
TIN	189.989	Axial	1.294796	0.004242246	0.01635610	0.02559955	0.02167804
TITANIUM	334.941	Radial	3367.640	0.8199380	4.126180	4.091204	4.081686
VANADIUM	292.402	Radial	46.64410	0.06822442	0.3579973	0.3439186	0.3214503
CERIUM	535.353	Radial	384.3487	0.1572311	0.9126422	0.7449579	0.7008666
LANTHANUM	333.749	Radial	69.81209	0.09015758	0.4340233	0.4582063	0.4601343

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1834825-01 Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 17:45 Sequence: 158

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10778.91	10831.45	10753.29	10751.99
YTTRIUM	360.073	Axial	311343.7	310818.2	313333.8	309879.0
YTTRIUM	360.073	Radial	12843.56	12922.96	12826.05	12781.68
INDIUM	230.606	Axial	2893.079	2901.366	2887.805	2890.065

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	98.26809	0.9478917	0.9387779	0.9511568	0.9537404
BARIUM	233.527	Axial	8019.410	1.972624	1.963926	1.980097	1.973850
BORON	249.678	Radial	299.1742	0.9349588	0.9250046	0.9386818	0.9411900
CADMIUM	228.802	Axial	5815.784	0.9173988	0.9123712	0.9212687	0.9185565
CHROMIUM	267.716	Axial	11023.80	1.164426	1.161189	1.165791	1.166297
COBALT	228.616	Axial	3554.972	0.9908826	0.9883495	0.9934067	0.9908914
COPPER	324.754	Axial	27850.14	1.108779	1.099648	1.108750	1.117939
LEAD	220.353	Axial	606.9910	1.083092	1.083025	1.080284	1.085967
LITHIUM	670.784	Radial	8701.474	1.093087	1.088719	1.103773	1.086769
MOLYBDENUM	202.030	Axial	723.2781	0.9516089	0.9471145	0.9534232	0.9542890
NICKEL	231.604	Axial	1682.470	1.057614	1.054505	1.060931	1.057407
PHOSPHORUS	177.495	Axial	374.9177	3.672213	3.667050	3.676369	3.673220
POTASSIUM	766.490	Radial	10926.01	31.76054	31.55531	31.96367	31.76265
SELENIUM	196.090	Axial	75.95847	0.8973315	0.8805391	0.9023799	0.9090756
SILVER	328.068	Axial	2288.763	0.1785608	0.1766136	0.1797491	0.1793197
ZINC	206.200	Axial	2301.792	1.304267	1.300252	1.305620	1.306931
ALUMINUM	308.215	Radial	15760.84	157.3307	155.7581	158.8719	157.3621
ANTIMONY	206.833	Axial	192.4360	0.9195172	0.9200893	0.9182083	0.9202539
BERYLLIUM	313.042	Radial	30512.13	0.9483452	0.9413751	0.9537666	0.9498939
CALCIUM	373.690	Radial	16501.17	35.91593	35.62481	36.14253	35.98045
IRON	271.441	Radial	5337.781	196.3782	195.1136	197.7449	196.2762
MAGNESIUM	279.079	Radial	1962.894	36.25525	35.92329	36.38691	36.45555
MANGANESE	257.610	Axial	206886.0	3.055460	3.051386	3.059401	3.055593
SILICON	251.611	Axial	76483.81	19.52530	19.48011	19.53423	19.56156
SODIUM	589.592	Radial	12963.88	10.54183	10.46842	10.60362	10.55346
STRONTIUM	421.552	Radial	51736.61	1.228012	1.219774	1.239811	1.224451
SULFUR	182.034	Axial	583.8078	9.219570	9.205683	9.246413	9.206613
THALLIUM	190.856	Axial	99.95546	0.9118543	0.9011666	0.9203991	0.9139972
TIN	189.989	Axial	237.6290	0.9454661	0.9450780	0.9465184	0.9448019
TITANIUM	334.941	Radial	21924.48	5.246949	5.214787	5.277430	5.248629
VANADIUM	292.402	Radial	917.5305	1.302306	1.289128	1.320100	1.297691
CERIUM	535.353	Radial	586.3529	0.9572721	0.9001731	1.007340	0.9643028
LANTHANUM	333.749	Radial	355.2242	0.4662307	0.4657968	0.4683674	0.4645279

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1834825-01 Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 17:47 Sequence: 159

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10791.26	10772.85	10785.22	10815.69
YTTRIUM	360.073	Axial	308465.9	305670.5	307577.7	312149.5
YTTRIUM	360.073	Radial	12932.56	12966.45	12825.00	13006.24
INDIUM	230.606	Axial	2895.030	2891.899	2892.649	2900.543

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	97.67833	0.9411490	0.9408160	0.9448686	0.9377626
BARIUM	233.527	Axial	8028.136	1.972496	1.977072	1.971813	1.968603
BORON	249.678	Radial	293.0489	0.9091227	0.8967687	0.9097339	0.9208655
CADMIUM	228.802	Axial	5763.624	0.9081187	0.9102311	0.9075378	0.9065873
CHROMIUM	267.716	Axial	10985.86	1.159084	1.158611	1.162983	1.155657
COBALT	228.616	Axial	3525.769	0.9820870	0.9823746	0.9824218	0.9814646
COPPER	324.754	Axial	27455.60	1.091678	1.096425	1.089449	1.089159
LEAD	220.353	Axial	588.7919	1.049984	1.053351	1.051229	1.045373
LITHIUM	670.784	Radial	8783.231	1.095787	1.085299	1.104761	1.097302
MOLYBDENUM	202.030	Axial	712.2237	0.9359627	0.9369205	0.9337907	0.9371771
NICKEL	231.604	Axial	1660.520	1.043151	1.044938	1.042786	1.041728
PHOSPHORUS	177.495	Axial	349.3278	3.417219	3.414819	3.422326	3.414512
POTASSIUM	766.490	Radial	11672.47	33.68489	33.33750	33.93442	33.78274
SELENIUM	196.090	Axial	73.68582	0.8692992	0.8755364	0.8741172	0.8582440
SILVER	328.068	Axial	2295.530	0.1788930	0.1779313	0.1789217	0.1798260
ZINC	206.200	Axial	2265.131	1.281938	1.280145	1.282820	1.282850
ALUMINUM	308.215	Radial	17003.39	168.5732	167.1645	169.5042	169.0509
ANTIMONY	206.833	Axial	168.2733	0.8028441	0.8120902	0.8004784	0.7959638
BERYLLIUM	313.042	Radial	30294.63	0.9351120	0.9285862	0.9411516	0.9355983
CALCIUM	373.690	Radial	16292.95	35.21777	35.00335	35.46144	35.18851
IRON	271.441	Radial	5107.597	186.6216	184.9813	188.4090	186.4745
MAGNESIUM	279.079	Radial	1981.948	36.35532	36.15586	36.64002	36.27008
MANGANESE	257.610	Axial	197294.7	2.910458	2.911500	2.913843	2.906032
SILICON	251.611	Axial	68041.54	17.34971	17.40227	17.31848	17.32840
SODIUM	589.592	Radial	12994.86	10.49406	10.38789	10.54970	10.54460
STRONTIUM	421.552	Radial	50937.65	1.200730	1.189013	1.209356	1.203822
SULFUR	182.034	Axial	582.2274	9.183921	9.159354	9.184529	9.207879
THALLIUM	190.856	Axial	99.06879	0.9122477	0.9088171	0.9225807	0.9053453
TIN	189.989	Axial	236.5161	0.9399573	0.9427419	0.9381407	0.9389893
TITANIUM	334.941	Radial	22237.66	5.285273	5.231186	5.316006	5.308626
VANADIUM	292.402	Radial	905.6937	1.276679	1.266871	1.284952	1.278215
CERIUM	535.353	Radial	603.6521	1.010709	0.9619545	0.9874138	1.082759
LANTHANUM	333.749	Radial	361.1198	0.4707667	0.4611280	0.4778373	0.4733349

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1834825-01 Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 17:50 Sequence: 160

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10761.19	10741.39	10741.38	10800.81
YTTRIUM	360.073	Axial	307188.8	309366.5	306779.6	305420.2
YTTRIUM	360.073	Radial	12802.97	12817.07	12766.37	12825.47
INDIUM	230.606	Axial	2873.501	2867.775	2868.256	2884.470

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	97.51687	0.9422176	0.9481641	0.9413729	0.9371158
BARIUM	233.527	Axial	8251.049	2.032930	2.029057	2.041902	2.027830
BORON	249.678	Radial	297.0639	0.9312241	0.9394805	0.9295966	0.9245952
CADMIUM	228.802	Axial	5855.838	0.9252343	0.9261898	0.9280891	0.9214240
CHROMIUM	267.716	Axial	11200.71	1.185075	1.191515	1.186548	1.177163
COBALT	228.616	Axial	3576.962	1.003792	1.002943	1.007556	1.000876
COPPER	324.754	Axial	28072.26	1.119511	1.116978	1.118026	1.123529
LEAD	220.353	Axial	596.3173	1.071330	1.077014	1.070439	1.066538
LITHIUM	670.784	Radial	8902.114	1.121802	1.114636	1.131459	1.119312
MOLYBDENUM	202.030	Axial	723.5135	0.9534836	0.9530072	0.9575364	0.9499071
NICKEL	231.604	Axial	1695.204	1.072832	1.073166	1.073406	1.071925
PHOSPHORUS	177.495	Axial	358.0500	3.512514	3.519836	3.515510	3.502197
POTASSIUM	766.490	Radial	11935.37	34.78512	34.57759	35.05939	34.71840
SELENIUM	196.090	Axial	74.99505	0.8873214	0.8888077	0.8917868	0.8813698
SILVER	328.068	Axial	2311.321	0.1807111	0.1807316	0.1813688	0.1800330
ZINC	206.200	Axial	2320.594	1.317136	1.320959	1.321781	1.308667
ALUMINUM	308.215	Radial	17434.19	174.5963	173.3795	175.6536	174.7557
ANTIMONY	206.833	Axial	170.9988	0.8181665	0.8189178	0.8192462	0.8163355
BERYLLIUM	313.042	Radial	30554.41	0.9526557	0.9479255	0.9574141	0.9526275
CALCIUM	373.690	Radial	16662.08	36.38120	36.19137	36.53318	36.41906
IRON	271.441	Radial	5328.590	196.6595	195.8930	197.4029	196.6826
MAGNESIUM	279.079	Radial	2035.474	37.71402	37.63025	37.71217	37.79964
MANGANESE	257.610	Axial	205041.4	3.033220	3.049245	3.033507	3.016909
SILICON	251.611	Axial	69070.09	17.66121	17.63537	17.68370	17.66456
SODIUM	589.592	Radial	13095.20	10.68286	10.61013	10.76772	10.67074
STRONTIUM	421.552	Radial	52035.92	1.239031	1.231297	1.247926	1.237870
SULFUR	182.034	Axial	590.7293	9.344620	9.320324	9.392880	9.320654
THALLIUM	190.856	Axial	101.0575	0.9346213	0.9239330	0.9349660	0.9449650
TIN	189.989	Axial	241.2750	0.9615698	0.9599700	0.9650510	0.9596884
TITANIUM	334.941	Radial	23189.64	5.567234	5.528406	5.602067	5.571229
VANADIUM	292.402	Radial	925.7378	1.318098	1.309996	1.330204	1.314095
CERIUM	535.353	Radial	601.3026	1.026031	1.010772	1.020782	1.046539
LANTHANUM	333.749	Radial	358.9170	0.4726298	0.4671965	0.4780026	0.4726904

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834664-05 DF: 1x Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 17:53 Sequence: 161

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10100.45	10100.36	10090.17	10110.83
YTTRIUM	360.073	Axial	293414.9	294329.5	293205.2	292710.2
YTTRIUM	360.073	Radial	12503.38	12604.70	12437.20	12468.25
INDIUM	230.606	Axial	2596.608	2595.715	2599.135	2594.974

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.254336	0.01887264	0.01308738	0.01976329	0.02376726
BARIUM	233.527	Axial	3040.012	0.7980520	0.7946775	0.7979647	0.8015138
BORON	249.678	Radial	19.99169	0.05217928	0.05704151	0.05118424	0.04831207
CADMIUM	228.802	Axial	31.03151	0.005005183	0.002502708	0.004072294	0.008440546
CHROMIUM	267.716	Axial	1017.856	0.1143441	0.1144559	0.1150950	0.1134814
COBALT	228.616	Axial	170.1166	0.05391391	0.05097042	0.05368208	0.05708923
LEAD	220.353	Axial	41.08742	0.08377404	0.08387730	0.08230784	0.08513697
LITHIUM	670.784	Radial	529.4006	0.06987922	0.07103678	0.06913991	0.06946095
SILVER	328.068	Axial	105.2198	0.0007365514	-0.0003424648	0.001193477	0.001358642
ALUMINUM	308.215	Radial	7956.385	81.52823	81.08163	82.00259	81.50048
ANTIMONY	206.833	Axial	2.712182	0.01143648	0.01172438	0.01013530	0.01244977
BERYLLIUM	313.042	Radial	130.0776	0.004454305	0.004425155	0.004527350	0.004410410
CALCIUM	373.690	Radial	319041.6	714.2879	715.2468	710.6460	716.9709
CERIUM	535.353	Radial	387.4850	0.1874992	0.08484039	0.2394612	0.2381959
COPPER	324.754	Axial	1678.032	0.06361673	0.06307873	0.06368854	0.06408291
IRON	271.441	Radial	2171.571	82.08233	81.64213	82.39500	82.20984
LANTHANUM	333.749	Radial	67.04073	0.08738454	0.08434189	0.08978700	0.08802473
MAGNESIUM	279.079	Radial	2164.755	41.07136	40.92363	41.18834	41.10212
MANGANESE	257.610	Axial	176635.7	2.783900	2.784401	2.786068	2.781230
MOLYBDENUM	202.030	Axial	7.298236	0.009139453	0.005820554	0.009161301	0.01243650
NICKEL	231.604	Axial	162.1926	0.1163096	0.1135437	0.1145624	0.1208226
PHOSPHORUS	177.495	Axial	285.1217	2.979112	2.982513	2.976830	2.977992
POTASSIUM	766.490	Radial	4187.817	12.62704	12.53962	12.73331	12.60820
SELENIUM	196.090	Axial	1.215347	0.01019874	0.01046547	0.001766939	0.01836382
SILICON	251.611	Axial	70246.84	19.13752	19.17115	19.18075	19.06065
SODIUM	589.592	Radial	817.9828	0.6432943	0.6412746	0.6457556	0.6428527
STRONTIUM	421.552	Radial	46112.50	1.124272	1.118667	1.128724	1.125426
SULFUR	182.034	Axial	259.1715	4.353153	4.352604	4.347879	4.358977
THALLIUM	190.856	Axial	-0.4115861	-0.01121739	-0.01154966	-0.01332765	-0.008774866
TIN	189.989	Axial	2.886902	0.01141940	0.008728324	0.01212676	0.01340313
TITANIUM	334.941	Radial	1916.376	0.4717930	0.4692715	0.4754581	0.4706494
VANADIUM	292.402	Radial	105.3235	0.1544145	0.1552957	0.1545293	0.1534186
ZINC	206.200	Axial	465.1639	0.2777554	0.2750515	0.2766331	0.2815817

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834664-06 DF: 1x Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 17:56 Sequence: 162

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10478.23	10499.28	10464.53	10470.87
YTTRIUM	360.073	Axial	300955.7	301735.8	300406.0	300725.2
YTTRIUM	360.073	Radial	12597.01	12609.08	12614.65	12567.29
INDIUM	230.606	Axial	2824.806	2829.368	2822.908	2822.143

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	3.635982	0.04189287	0.04137250	0.04001777	0.04428834
BARIUM	233.527	Axial	3255.444	0.8237951	0.8224530	0.8255046	0.8234279
BORON	249.678	Radial	10.65143	0.02153895	0.02924743	0.01964835	0.01572106
CADMIUM	228.802	Axial	13.98092	0.002050993	0.001967892	0.002169894	0.002015193
CHROMIUM	267.716	Axial	1498.357	0.1624352	0.1627688	0.1622941	0.1622429
COBALT	228.616	Axial	199.1216	0.05792128	0.05755826	0.05813566	0.05806993
LEAD	220.353	Axial	64.18522	0.1193120	0.1184319	0.1183220	0.1211820
LITHIUM	670.784	Radial	526.1868	0.06896608	0.06860066	0.06930455	0.06899302
SILVER	328.068	Axial	102.6299	0.0001879639	0.0003649710	-0.0001667857	0.0003657063
ALUMINUM	308.215	Radial	12555.25	127.7595	127.0962	128.0758	128.1065
ANTIMONY	206.833	Axial	3.841394	0.01650032	0.01826015	0.01333266	0.01790815
BERYLLIUM	313.042	Radial	192.0325	0.006385973	0.006372111	0.006357540	0.006428267
CALCIUM	373.690	Radial	93105.06	206.8640	206.3427	207.0032	207.2462
CERIUM	535.353	Radial	412.7814	0.2804238	0.3150549	0.2664146	0.2598018
COPPER	324.754	Axial	2126.112	0.07951389	0.07966591	0.07999262	0.07888313
IRON	271.441	Radial	4414.916	165.6067	165.3671	165.5865	165.8666
LANTHANUM	333.749	Radial	104.9209	0.1377903	0.1387863	0.1379099	0.1366748
MAGNESIUM	279.079	Radial	1514.411	28.51762	28.39374	28.59932	28.55979
MANGANESE	257.610	Axial	260237.3	3.953755	3.934736	3.956174	3.970355
MOLYBDENUM	202.030	Axial	7.318403	0.008798741	0.008164175	0.009449179	0.008782868
NICKEL	231.604	Axial	219.7506	0.1441071	0.1441967	0.1448660	0.1432587
PHOSPHORUS	177.495	Axial	301.9537	3.041387	3.016689	3.052066	3.055405
POTASSIUM	766.490	Radial	3835.775	11.49759	11.48289	11.47710	11.53279
SELENIUM	196.090	Axial	0.3264977	-0.001226824	0.009853357	-0.009985444	-0.003548385
SILICON	251.611	Axial	74844.72	19.65507	19.66500	19.72719	19.57302
SODIUM	589.592	Radial	943.9058	0.7430163	0.7409718	0.7383758	0.7497012
STRONTIUM	421.552	Radial	14760.60	0.3569245	0.3558862	0.3572049	0.3576825
SULFUR	182.034	Axial	190.3137	3.073266	3.032520	3.085798	3.101480
THALLIUM	190.856	Axial	-1.52798	-0.02173171	-0.02651175	-0.01902988	-0.01965350
TIN	189.989	Axial	3.856516	0.01495012	0.01480282	0.01671851	0.01332903
TITANIUM	334.941	Radial	4260.190	1.040088	1.040862	1.038454	1.040949
VANADIUM	292.402	Radial	210.0319	0.3046841	0.3065242	0.3061970	0.3013311
ZINC	206.200	Axial	943.9144	0.5476015	0.5460135	0.5510631	0.5457278

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834664-07 DF: 1x Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 17:59 Sequence: 163

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9810.125	9733.270	9814.626	9882.479
YTTRIUM	360.073	Axial	279472.4	277784.0	279835.8	280797.4
YTTRIUM	360.073	Radial	12171.36	12206.60	12195.22	12112.25
INDIUM	230.606	Axial	2482.065	2462.519	2486.701	2496.976

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.254452	0.06140394	0.06637131	0.06181954	0.05602099
BARIUM	233.527	Axial	2636.651	0.7126864	0.7192287	0.7111350	0.7076955
BORON	249.678	Radial	12.40310	0.02861698	0.02243971	0.02995466	0.03345657
CADMIUM	228.802	Axial	24.86249	0.004092745	0.004364573	0.003880202	0.004033459
CHROMIUM	267.716	Axial	1174.575	0.1359376	0.1359122	0.1367897	0.1351108
COBALT	228.616	Axial	178.2928	0.05900710	0.06011220	0.05900987	0.05789922
LEAD	220.353	Axial	137.1766	0.2869780	0.2895415	0.2851376	0.2862549
LITHIUM	670.784	Radial	458.4072	0.06234905	0.06202020	0.06241589	0.06261105
SILVER	328.068	Axial	118.5712	0.002205288	0.001898410	0.002286304	0.002431150
ALUMINUM	308.215	Radial	8573.972	90.26357	90.14841	90.35928	90.28302
ANTIMONY	206.833	Axial	1.688031	0.006460606	0.006612943	0.007923817	0.004845058
BERYLLIUM	313.042	Radial	134.3992	0.004709230	0.004752923	0.004592649	0.004782117
CALCIUM	373.690	Radial	508363.4	1169.289	1159.237	1160.971	1187.658
CERIUM	535.353	Radial	422.2038	0.3812987	0.3611307	0.3955972	0.3871680
COPPER	324.754	Axial	3313.455	0.1378118	0.1381709	0.1377991	0.1374654
IRON	271.441	Radial	3079.513	119.5637	118.9197	119.4039	120.3675
LANTHANUM	333.749	Radial	82.15670	0.1109628	0.1099738	0.1108900	0.1120248
MAGNESIUM	279.079	Radial	1603.793	31.25725	31.15293	31.34088	31.27796
MANGANESE	257.610	Axial	286366.6	4.647162	4.663234	4.660027	4.618225
MOLYBDENUM	202.030	Axial	4.174487	0.004919386	0.003616086	0.006132289	0.005009783
NICKEL	231.604	Axial	238.1647	0.1770464	0.1785323	0.1765822	0.1760248
PHOSPHORUS	177.495	Axial	334.4868	3.599790	3.633849	3.603994	3.561527
POTASSIUM	766.490	Radial	3352.695	10.42010	10.43636	10.44616	10.37779
SELENIUM	196.090	Axial	1.477041	0.01413193	0.03152900	-0.0002184149	0.01108520
SILICON	251.611	Axial	68648.20	19.25570	19.29183	19.27991	19.19535
SODIUM	589.592	Radial	1181.340	0.9750601	0.9696932	0.9748514	0.9806357
STRONTIUM	421.552	Radial	95108.19	2.382506	2.376424	2.383328	2.387767
SULFUR	182.034	Axial	253.6170	4.386323	4.416392	4.400476	4.342102
THALLIUM	190.856	Axial	-0.6507337	-0.01385400	-0.006984367	-0.02210561	-0.01247204
TIN	189.989	Axial	4.902710	0.02059590	0.01941573	0.01998916	0.02238280
TITANIUM	334.941	Radial	3493.632	0.8828922	0.8798672	0.8814619	0.8873476
VANADIUM	292.402	Radial	133.4340	0.2006797	0.1989080	0.1998945	0.2032365
ZINC	206.200	Axial	20464.66	12.78100	12.92776	12.74644	12.66879

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/13/25 18:02 Sequence: 164 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10445.63	10423.57	10418.35	10494.97
YTTRIUM	360.073	Axial	301811.9	302392.7	302481.0	300562.2
YTTRIUM	360.073	Radial	12120.60	12062.96	12238.60	12060.24
INDIUM	230.606	Axial	2963.079	2962.111	2950.675	2976.451

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	928.7493	9.714361	9.700205	9.691707	9.751172
ANTIMONY	206.833	Axial	100.3494	0.4936797	0.4957166	0.4929227	0.4924000
ARSENIC	189.042	Axial	99.99411	0.9950245	1.008498	0.9967203	0.9798553
BARIUM	233.527	Axial	2027.064	0.5145875	0.5150028	0.5171455	0.5116142
BERYLLIUM	313.042	Radial	6091.638	0.2008609	0.1997189	0.2009953	0.2018685
BORON	249.678	Radial	296.6004	0.9828054	0.9743975	0.9857379	0.9882808
CADMIUM	228.802	Axial	3039.041	0.4945812	0.4954710	0.4961637	0.4921089
CALCIUM	373.690	Radial	22574.65	52.08959	52.01744	51.92062	52.33072
CHROMIUM	267.716	Axial	9470.997	1.032271	1.032401	1.033273	1.031140
COBALT	228.616	Axial	3595.418	0.9785062	0.9807679	0.9822536	0.9724969
COPPER	324.754	Axial	24737.99	1.015602	1.017686	1.016286	1.012834
IRON	259.940	Radial	5039.109	9.914239	9.895999	9.863671	9.983046
LEAD	220.353	Axial	281.3777	0.4914643	0.4911243	0.4949335	0.4883351
LITHIUM	670.784	Radial	7556.997	1.006062	1.002227	1.007867	1.008094
MAGNESIUM	279.079	Radial	486.4786	9.519192	9.540990	9.422429	9.594158
MANGANESE	257.610	Axial	67746.80	1.032318	1.033920	1.033418	1.029617
MOLYBDENUM	202.030	Axial	188.3043	0.2548357	0.2554797	0.2551336	0.2538938
NICKEL	231.604	Axial	1610.724	0.9888047	0.9890240	0.9944206	0.9829695
PHOSPHORUS	177.495	Axial	96.15793	0.9673984	0.9710638	0.9675211	0.9636103
POTASSIUM	766.490	Radial	16184.25	49.73650	49.62104	49.67068	49.91777
SELENIUM	196.090	Axial	79.65986	0.9714695	0.9810485	0.9638026	0.9695575
SILICON	251.611	Axial	8024.718	2.110286	2.094529	2.115508	2.120819
SILVER	328.068	Axial	6209.762	0.5150951	0.5155842	0.5162131	0.5134880
SODIUM	818.326	Radial	3381.327	51.09138	50.93448	51.16243	51.17723
STRONTIUM	421.552	Radial	40210.26	1.011259	1.006519	1.013337	1.013920
SULFUR	182.034	Axial	286.0362	4.647538	4.669868	4.645815	4.626931
THALLIUM	190.856	Axial	109.0411	1.027083	1.032390	1.020832	1.028028
TIN	189.989	Axial	125.3973	0.5144593	0.5143136	0.5160983	0.5129660
TITANIUM	334.941	Radial	3931.905	0.9977146	0.9953670	0.9949529	1.002824
VANADIUM	292.402	Radial	665.4106	1.001020	1.003249	0.9961433	1.003668
ZINC	206.200	Axial	1762.663	1.029690	1.024719	1.031290	1.033062
CERIUM	535.353	Radial	345.7004	0.05747770	0.04227620	0.04953577	0.08062113
HOT WATER SOL. BORON	249.678	Radial	296.6004	0.9828054	0.9743975	0.9857379	0.9882808
LANTHANUM	333.749	Radial	3.050717	0.0005014201	-0.005379317	0.008215112	-0.001331534

Sample ID: CCB Units: mg/l
Analyzed: 03/13/25 18:05 Sequence: 165

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10891.79	10928.16	10934.46	10812.75
YTTRIUM	360.073	Axial	321819.4	322090.2	320902.5	322465.6
YTTRIUM	360.073	Radial	12375.53	12302.12	12476.50	12347.98
INDIUM	230.606	Axial	3293.311	3299.515	3306.556	3273.862

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	9.676923	-0.01643685	-0.01163856	-0.06453695	0.02686495
ANTIMONY	206.833	Axial	0.3630062	-0.0007037484	-0.003856874	0.001061098	0.0006845308
ARSENIC	189.042	Axial	-0.5671412	0.0006663788	-0.002863455	0.003744883	0.001117709
BARIUM	233.527	Axial	12.37868	0.003094214	0.002315487	0.002893051	0.004074102
BERYLLIUM	313.042	Radial	-10.5739	-0.00003853647	-0.0001052164	-0.000006049025	-0.000004343966
BORON	249.678	Radial	4.149402	0.0007906601	0.0007726885	-0.001328222	0.002927514
CADMIUM	228.802	Axial	7.515965	0.0009593633	0.0002369808	0.0005464421	0.002094667
CALCIUM	317.933	Radial	75.14538	-0.006750280	-0.005848830	-0.005577550	-0.008824460
CERIUM	535.353	Radial	343.4929	0.01734188	0.03289767	-0.01376474	0.03289273
CHROMIUM	267.716	Axial	5.861111	0.0001778839	0.0003700233	0.00005128117	0.0001123472
COBALT	228.616	Axial	2.191330	0.001684798	0.0005230918	0.001119682	0.003411620
COPPER	324.754	Axial	213.6905	0.0002788175	0.0004237788	0.00005524852	0.0003574251
HOT WATER SOL. BORON	249.678	Radial	4.149402	0.0007906601	0.0007726885	-0.001328222	0.002927514
IRON	259.940	Radial	100.1195	0.1140468	0.1134241	0.1126394	0.1160770
LANTHANUM	333.749	Radial	1.804596	-0.001252892	-0.0008053813	-0.003228216	0.0002749219
LEAD	220.353	Axial	-0.7169045	0.001133411	-0.001440250	0.004067304	0.0007731801
LITHIUM	670.784	Radial	-5.03193	0.001025566	0.001325508	-0.0002290357	0.001980227
MAGNESIUM	279.079	Radial	-0.07345916	-0.004614727	-0.03263935	-0.01322059	0.03201577
MANGANESE	257.610	Axial	89.74607	0.001089690	0.001054048	0.001095307	0.001119716
MOLYBDENUM	202.030	Axial	1.292348	0.0005697335	-0.0002528666	0.0003810958	0.001580971
NICKEL	231.604	Axial	-1.48409	0.002226996	0.001423831	0.001232361	0.004024796
PHOSPHORUS	177.495	Axial	0.6300042	0.00002022166	-0.0007312621	-0.004386465	0.005178392
POTASSIUM	766.490	Radial	-67.0633	0.0002860916	-0.04765124	0.03816161	0.01034791
SELENIUM	196.090	Axial	0.3691356	-0.0008783576	-0.005476792	0.007009783	-0.004168064
SILICON	251.611	Axial	43.96233	0.007025890	0.003882025	0.008567449	0.008628194
SILVER	328.068	Axial	104.5561	0.00001901755	-0.0002447795	-0.0004284952	0.0007303273
SODIUM	589.592	Radial	64.14149	0.01163312	0.006882624	0.006568104	0.02144864
STRONTIUM	421.552	Radial	12.50497	-0.00009233936	0.00004811191	-0.00003647337	-0.0002886566
SULFUR	182.034	Axial	2.353205	0.009130893	-0.002452325	0.01313876	0.01670625
THALLIUM	190.856	Axial	0.5099552	-0.002663719	-0.001463827	-0.0008548533	-0.005672478
TIN	189.989	Axial	0.5154439	0.001187402	0.0001688420	0.0008221703	0.002571193
TITANIUM	334.941	Radial	-2.33291	0.0001720253	0.0008148337	0.0007114475	-0.001010205
VANADIUM	292.402	Radial	-2.98232	-0.003416317	-0.002082525	-0.001920142	-0.006246284
ZINC	206.200	Axial	4.749131	-0.001809813	-0.003318108	-0.002563551	0.0004522197

Sample ID: L1834664-08 DF: 1x Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 18:08 Sequence: 166

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10679.22	10605.78	10720.70	10711.18
YTTRIUM	360.073	Axial	306373.4	306965.0	305445.0	306710.3
YTTRIUM	360.073	Radial	12693.04	12736.38	12609.79	12732.96
INDIUM	230.606	Axial	2897.407	2877.666	2907.241	2907.313

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.542464	0.05964382	0.05410046	0.05549610	0.06933490
BARIUM	233.527	Axial	8269.991	2.053297	2.073702	2.044866	2.041323
BORON	249.678	Radial	17.08418	0.04192021	0.04025221	0.04642830	0.03908011
CADMIUM	228.802	Axial	18.82217	0.002779062	0.002756776	0.002862197	0.002718214
CHROMIUM	267.716	Axial	1957.074	0.2082963	0.2091017	0.2093540	0.2064333
COBALT	228.616	Axial	556.5711	0.1558753	0.1584088	0.1551203	0.1540968
LEAD	220.353	Axial	122.2624	0.2196434	0.2211064	0.2187832	0.2190407
LITHIUM	670.784	Radial	790.4471	0.1020029	0.1011684	0.1042056	0.1006346
SILVER	328.068	Axial	99.21751	-0.0002548545	-0.00007120803	-0.0005427928	-0.0001505628
ALUMINUM	308.215	Radial	15797.25	159.5671	158.9194	161.1692	158.6127
ANTIMONY	206.833	Axial	3.364709	0.01383058	0.01109841	0.01914664	0.01124668
BERYLLIUM	313.042	Radial	279.6220	0.009093956	0.009121232	0.009202182	0.008958454
CALCIUM	373.690	Radial	39002.13	85.97232	85.53898	86.84210	85.53589
CERIUM	535.353	Radial	436.1226	0.3640199	0.3338711	0.3705944	0.3875944
COPPER	324.754	Axial	2736.553	0.1025748	0.1027828	0.1021826	0.1027589
IRON	271.441	Radial	5054.289	188.1588	186.7869	190.2972	187.3924
LANTHANUM	333.749	Radial	132.3500	0.1734346	0.1733712	0.1716518	0.1752809
MAGNESIUM	279.079	Radial	824.0391	15.39882	15.26977	15.51076	15.41593
MANGANESE	257.610	Axial	704427.1	10.50143	10.57753	10.45368	10.47309
MOLYBDENUM	202.030	Axial	9.656335	0.01172026	0.01188174	0.01165842	0.01162063
NICKEL	231.604	Axial	421.5406	0.2668734	0.2692475	0.2682020	0.2631708
PHOSPHORUS	177.495	Axial	427.5361	4.227763	4.276735	4.206383	4.200172
POTASSIUM	766.490	Radial	5582.903	16.51883	16.51340	16.67875	16.36434
SELENIUM	196.090	Axial	0.5383650	0.001219221	-0.008684470	-0.002697858	0.01503999
SILICON	251.611	Axial	95958.18	24.72671	24.79181	24.63188	24.75646
SODIUM	589.592	Radial	711.9383	0.5454838	0.5330143	0.5624682	0.5409688
STRONTIUM	421.552	Radial	21064.26	0.5056796	0.5033890	0.5102611	0.5033886
SULFUR	182.034	Axial	149.8742	2.368401	2.387577	2.361951	2.355674
THALLIUM	190.856	Axial	-1.64959	-0.02260772	-0.03371626	-0.01784033	-0.01626657
TIN	189.989	Axial	3.479905	0.01312441	0.009081757	0.01581190	0.01447956
TITANIUM	334.941	Radial	5012.369	1.214375	1.201536	1.224647	1.216942
VANADIUM	292.402	Radial	263.9817	0.3798206	0.3812741	0.3823019	0.3758858
ZINC	206.200	Axial	1192.832	0.6800883	0.6888929	0.6779832	0.6733887

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834664-09 DF: 1x Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 18:11 Sequence: 167

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10822.04	10780.38	10873.87	10811.87
YTTRIUM	360.073	Axial	312884.4	312537.3	312264.5	313851.3
YTTRIUM	360.073	Radial	12820.99	12980.03	12763.33	12719.60
INDIUM	230.606	Axial	2963.369	2944.618	2977.129	2968.359

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.177949	0.04592274	0.05103524	0.05102775	0.03570523
BARIUM	233.527	Axial	5032.915	1.233101	1.236862	1.226359	1.236082
BORON	249.678	Radial	12.40825	0.02653331	0.02365758	0.03150609	0.02443627
CADMIUM	228.802	Axial	15.74447	0.002255587	0.001901891	0.002262291	0.002602579
CHROMIUM	267.716	Axial	1829.436	0.1921084	0.1929459	0.1912274	0.1921520
COBALT	228.616	Axial	239.4500	0.06622999	0.06677168	0.06530418	0.06661412
LEAD	220.353	Axial	97.38868	0.1715659	0.1736039	0.1701891	0.1709046
LITHIUM	670.784	Radial	644.3477	0.08264413	0.08187073	0.08124050	0.08482117
SILVER	328.068	Axial	104.2118	0.00004189687	-0.0002566498	0.0004117044	-0.00002936407
ALUMINUM	308.215	Radial	14368.42	143.6743	143.0743	143.3151	144.6334
ANTIMONY	206.833	Axial	4.099129	0.01714365	0.02345735	0.01370119	0.01427243
BERYLLIUM	313.042	Radial	243.6413	0.007885222	0.007998780	0.007868914	0.007787974
CALCIUM	373.690	Radial	15255.13	33.25896	33.06534	33.23026	33.48129
CERIUM	535.353	Radial	423.2477	0.2931790	0.3028954	0.2996072	0.2770343
COPPER	324.754	Axial	2384.156	0.08703717	0.08744628	0.08615547	0.08750976
IRON	271.441	Radial	4462.573	164.4743	163.9142	163.9998	165.5087
LANTHANUM	333.749	Radial	136.2892	0.1768669	0.1806248	0.1774349	0.1725410
MAGNESIUM	279.079	Radial	809.2105	14.97123	14.83846	14.99174	15.08349
MANGANESE	257.610	Axial	377681.2	5.555923	5.576087	5.519059	5.572624
MOLYBDENUM	202.030	Axial	7.666956	0.008941839	0.009719139	0.008520171	0.008586208
NICKEL	231.604	Axial	334.6011	0.2077978	0.2095962	0.2065537	0.2072434
PHOSPHORUS	177.495	Axial	350.5471	3.419435	3.425371	3.401046	3.431887
POTASSIUM	766.490	Radial	3963.865	11.67083	11.67932	11.62292	11.71025
SELENIUM	196.090	Axial	0.008127793	-0.005104651	-0.009741451	-0.009969282	0.004396780
SILICON	251.611	Axial	67675.64	17.20755	17.30290	17.10242	17.21732
SODIUM	589.592	Radial	996.5808	0.7723769	0.7710544	0.7686878	0.7773885
STRONTIUM	421.552	Radial	16331.56	0.3880523	0.3874450	0.3867310	0.3899808
SULFUR	182.034	Axial	148.0704	2.308312	2.327539	2.288308	2.309088
THALLIUM	190.856	Axial	-1.19848	-0.01816910	-0.01479726	-0.02093628	-0.01877376
TIN	189.989	Axial	3.331698	0.01237644	0.01518011	0.008363294	0.01358592
TITANIUM	334.941	Radial	5138.437	1.232493	1.226345	1.229058	1.242077
VANADIUM	292.402	Radial	244.7871	0.3487872	0.3447673	0.3498025	0.3517919
ZINC	206.200	Axial	972.9250	0.5464946	0.5492403	0.5447736	0.5454699

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834664-10 DF: 1x Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 18:14 Sequence: 168

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10524.20	10490.40	10495.61	10586.60
YTTRIUM	360.073	Axial	304145.6	304027.3	305240.7	303168.8
YTTRIUM	360.073	Radial	12513.02	12533.88	12480.04	12525.13
INDIUM	230.606	Axial	2866.682	2861.048	2855.349	2883.648

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	3.520016	0.04061169	0.03927095	0.04683867	0.03572545
BARIUM	233.527	Axial	3646.647	0.9187614	0.9200760	0.9221923	0.9140159
BORON	249.678	Radial	9.768905	0.01890911	0.01970095	0.02136814	0.01565825
CADMIUM	228.802	Axial	13.74953	0.002003475	0.002064035	0.001900511	0.002045880
CHROMIUM	267.716	Axial	1170.636	0.1262620	0.1271616	0.1271623	0.1244620
COBALT	228.616	Axial	194.6280	0.05583007	0.05598213	0.05602656	0.05548151
LEAD	220.353	Axial	71.90601	0.1314854	0.1334387	0.1328143	0.1282031
LITHIUM	670.784	Radial	406.4542	0.05400298	0.05424130	0.05382319	0.05394445
SILVER	328.068	Axial	100.8142	-0.0000007931440	0.0008897866	-0.0007234943	-0.0001686718
ALUMINUM	308.215	Radial	8560.138	87.65372	87.41432	87.47041	88.07642
ANTIMONY	206.833	Axial	2.831248	0.01147152	0.01449365	0.01117288	0.008748040
BERYLLIUM	313.042	Radial	164.5805	0.005551276	0.005552427	0.005549706	0.005551694
CALCIUM	373.690	Radial	84799.03	189.6693	189.2551	189.6246	190.1282
CERIUM	535.353	Radial	400.6355	0.2409676	0.2482539	0.1985655	0.2760833
COPPER	324.754	Axial	1744.197	0.06344367	0.06380986	0.06332646	0.06319470
IRON	271.441	Radial	3298.667	124.5723	124.3164	124.4789	124.9215
LANTHANUM	333.749	Radial	104.2207	0.1377891	0.1395742	0.1368195	0.1369737
MAGNESIUM	279.079	Radial	856.8845	16.24278	16.21318	16.25929	16.25588
MANGANESE	257.610	Axial	360195.6	5.448612	5.459906	5.454622	5.431308
MOLYBDENUM	202.030	Axial	5.138461	0.005816912	0.007196050	0.005454213	0.004800474
NICKEL	231.604	Axial	171.7997	0.1117162	0.1125027	0.1116792	0.1109667
PHOSPHORUS	177.495	Axial	357.4633	3.585910	3.604090	3.593215	3.560426
POTASSIUM	766.490	Radial	3285.445	9.941819	9.867465	9.930010	10.02798
SELENIUM	196.090	Axial	1.429954	0.01219212	0.01639279	0.006586384	0.01359718
SILICON	251.611	Axial	75962.28	19.86198	19.98316	19.91955	19.68324
SODIUM	589.592	Radial	898.1164	0.7098942	0.7110271	0.6969733	0.7216822
STRONTIUM	421.552	Radial	21819.55	0.5313510	0.5301684	0.5303146	0.5335699
SULFUR	182.034	Axial	161.3642	2.590064	2.590197	2.601429	2.578567
THALLIUM	190.856	Axial	-1.38103	-0.02019347	-0.01730287	-0.02532058	-0.01795695
TIN	189.989	Axial	2.812290	0.01062227	0.01025260	0.01126766	0.01034654
TITANIUM	334.941	Radial	3623.878	0.8907838	0.8889094	0.8903700	0.8930722
VANADIUM	292.402	Radial	173.2602	0.2531912	0.2540815	0.2484957	0.2569963
ZINC	206.200	Axial	622.5713	0.3580545	0.3578612	0.3573949	0.3589074

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834825-02 DF: 1x Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 18:17 Sequence: 169

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10913.23	10841.50	10947.68	10950.49
YTTRIUM	360.073	Axial	311969.2	311685.5	310083.7	314138.4
YTTRIUM	360.073	Radial	12812.32	12742.40	12897.47	12797.11
INDIUM	230.606	Axial	2979.961	2963.798	2987.105	2988.979

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	17.43336	0.1710890	0.1756605	0.1718965	0.1657101
BARIUM	233.527	Axial	3944.101	0.9582867	0.9651821	0.9557434	0.9539345
CADMIUM	228.802	Axial	175.8513	0.02718531	0.02704430	0.02740431	0.02710731
CHROMIUM	267.716	Axial	1608.218	0.1674152	0.1691298	0.1681532	0.1649627
LEAD	220.353	Axial	414.8550	0.7194428	0.7243158	0.7180880	0.7159246
SELENIUM	196.090	Axial	-0.8760413	-0.01547846	-0.01277275	-0.03078155	-0.002881071
SILVER	328.068	Axial	138.7009	0.002756598	0.003199531	0.002654489	0.002415775
ALUMINUM	308.215	Radial	10116.78	101.1947	102.4441	100.6859	100.4541
ANTIMONY	206.833	Axial	4.447180	0.01861462	0.01856953	0.02195482	0.01531950
BERYLLIUM	313.042	Radial	143.5124	0.004772569	0.004789870	0.004745847	0.004781991
BORON	249.678	Radial	7.510183	0.01098880	0.01248550	0.01271792	0.007762985
CALCIUM	317.933	Radial	12852.41	16.83896	17.00373	16.72227	16.79087
CERIUM	535.353	Radial	590.6763	0.9808524	1.017944	0.9374558	0.9871574
COBALT	228.616	Axial	181.1680	0.05011231	0.05018271	0.05002919	0.05012504
COPPER	324.754	Axial	10122.94	0.3928072	0.3975627	0.3925190	0.3883400
IRON	271.441	Radial	4376.866	161.4265	163.3733	160.2826	160.6236
LANTHANUM	333.749	Radial	356.1128	0.4685698	0.4766617	0.4676714	0.4613762
LITHIUM	670.784	Radial	614.0232	0.07887899	0.07902490	0.07905529	0.07855678
MAGNESIUM	279.079	Radial	1175.154	21.75745	22.08457	21.55303	21.63474
MANGANESE	257.610	Axial	198659.1	2.897902	2.920842	2.891159	2.881705
MOLYBDENUM	202.030	Axial	6.852554	0.007796561	0.007772207	0.007238418	0.008379058
NICKEL	231.604	Axial	150.8615	0.09484320	0.09537492	0.09492344	0.09423123
PHOSPHORUS	177.495	Axial	474.5608	4.592533	4.603712	4.600735	4.573153
POTASSIUM	766.490	Radial	10708.63	31.20839	31.52212	31.06043	31.04260
SILICON	251.611	Axial	81360.89	20.51563	20.76231	20.49199	20.29259
SODIUM	589.592	Radial	1562.741	1.236303	1.251038	1.236830	1.221041
STRONTIUM	421.552	Radial	7835.092	0.1860886	0.1879461	0.1852159	0.1851037
SULFUR	182.034	Axial	41.57813	0.6227012	0.6245310	0.6205703	0.6230022
THALLIUM	190.856	Axial	-1.06901	-0.01697612	-0.01284503	-0.01091777	-0.02716556
TIN	189.989	Axial	3.960751	0.01472595	0.01349931	0.01629956	0.01437897
TITANIUM	334.941	Radial	18095.50	4.341364	4.398294	4.317489	4.308311
VANADIUM	292.402	Radial	183.7854	0.2622769	0.2650744	0.2607066	0.2610498
ZINC	206.200	Axial	2034.201	1.137896	1.143830	1.137114	1.132744

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834825-03 DF: 1x Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 18:20 Sequence: 170

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10902.18	10879.49	10914.07	10912.97
YTTRIUM	360.073	Axial	314695.1	315701.7	316495.5	311888.0
YTTRIUM	360.073	Radial	12775.77	12704.61	12828.07	12794.61
INDIUM	230.606	Axial	2973.721	2958.299	2978.636	2984.228

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	16.96475	0.1667987	0.1649456	0.1643389	0.1711114
BARIUM	233.527	Axial	3497.714	0.8506818	0.8531063	0.8502371	0.8487019
CADMIUM	228.802	Axial	16.87672	0.002414323	0.002356841	0.002402220	0.002483908
CHROMIUM	267.716	Axial	1517.819	0.1581357	0.1585230	0.1572766	0.1586075
LEAD	220.353	Axial	84.11103	0.1479739	0.1504512	0.1458381	0.1476324
SELENIUM	196.090	Axial	-1.14296	-0.01862760	-0.01390703	-0.01089959	-0.03107617
SILVER	328.068	Axial	84.30192	-0.001628294	-0.002191080	-0.001113741	-0.001580063
ALUMINUM	308.215	Radial	10212.34	102.4411	102.4401	102.4283	102.4550
ANTIMONY	206.833	Axial	2.512653	0.009469345	0.006533485	0.01143804	0.01043651
BERYLLIUM	313.042	Radial	136.3630	0.004562046	0.004584638	0.004515741	0.004585759
BORON	249.678	Radial	9.155957	0.01630032	0.01394523	0.01066137	0.02429435
CALCIUM	317.933	Radial	13998.57	18.40275	18.43891	18.34731	18.42204
CERIUM	535.353	Radial	584.1618	0.9609623	1.012397	0.9548736	0.9156159
COBALT	228.616	Axial	159.5681	0.04436499	0.04458805	0.04436221	0.04414472
COPPER	324.754	Axial	3026.371	0.1118005	0.1117948	0.1121464	0.1114604
IRON	271.441	Radial	4099.064	151.6092	151.4636	151.5316	151.8324
LANTHANUM	333.749	Radial	330.0869	0.4352897	0.4347785	0.4362937	0.4347970
LITHIUM	670.784	Radial	592.7733	0.07641753	0.07594151	0.07876663	0.07454446
MAGNESIUM	279.079	Radial	1119.990	20.79480	20.93647	20.64568	20.80226
MANGANESE	257.610	Axial	203224.4	2.967436	2.973027	2.964615	2.964667
MOLYBDENUM	202.030	Axial	3.904388	0.003966060	0.003778810	0.003927546	0.004191825
NICKEL	231.604	Axial	135.7634	0.08582855	0.08633679	0.08519729	0.08595157
PHOSPHORUS	177.495	Axial	459.7778	4.453768	4.461572	4.460502	4.439231
POTASSIUM	766.490	Radial	10114.04	29.56974	29.58971	29.65555	29.46397
SILICON	251.611	Axial	71879.95	18.14216	18.16931	18.11493	18.14223
SODIUM	589.592	Radial	922.2680	0.7142602	0.7147412	0.7087799	0.7192595
STRONTIUM	421.552	Radial	7798.626	0.1857466	0.1855509	0.1855442	0.1861447
SULFUR	182.034	Axial	26.80790	0.3920228	0.3712122	0.3965686	0.4082876
THALLIUM	190.856	Axial	-0.8220165	-0.01467768	-0.01495527	-0.01519090	-0.01388688
TIN	189.989	Axial	3.662710	0.01357290	0.01421991	0.01276182	0.01373697
TITANIUM	334.941	Radial	17165.54	4.129925	4.124079	4.129174	4.136523
VANADIUM	292.402	Radial	171.9400	0.2461271	0.2461726	0.2466068	0.2456019
ZINC	206.200	Axial	926.4760	0.5163320	0.5206957	0.5144209	0.5138793

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834825-04 DF: 1x Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 18:22 Sequence: 171

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10911.60	10903.88	10907.66	10923.27
YTTRIUM	360.073	Axial	316401.4	312608.0	319058.2	317537.9
YTTRIUM	360.073	Radial	12838.53	12823.88	12809.97	12881.76
INDIUM	230.606	Axial	2969.921	2968.600	2966.741	2974.423

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.952212	0.06239813	0.06108194	0.06360867	0.06250379
BARIUM	233.527	Axial	3668.526	0.8914486	0.8919739	0.8926478	0.8897242
CADMIUM	228.802	Axial	17.41567	0.002496116	0.002648066	0.002324998	0.002515285
CHROMIUM	267.716	Axial	1702.624	0.1772893	0.1785041	0.1770714	0.1762922
LEAD	220.353	Axial	104.2454	0.1830789	0.1827473	0.1832897	0.1831998
SELENIUM	196.090	Axial	-1.54424	-0.02332601	-0.02386443	-0.01360622	-0.03250736
SILVER	328.068	Axial	61.54571	-0.003470270	-0.003206737	-0.004004192	-0.003199881
ALUMINUM	308.215	Radial	9452.294	94.34315	94.42124	93.71121	94.89700
ANTIMONY	206.833	Axial	2.728538	0.01048583	0.01577651	0.008076516	0.007604465
BERYLLIUM	313.042	Radial	142.2484	0.004723890	0.004780049	0.004586260	0.004805362
BORON	249.678	Radial	5.945625	0.005984649	0.007994174	0.004696139	0.005263634
CALCIUM	373.690	Radial	10282.86	22.36949	22.37460	22.30415	22.42973
CERIUM	535.353	Radial	646.7093	1.204867	1.171362	1.190331	1.252909
COBALT	228.616	Axial	176.1604	0.04891937	0.04900280	0.04860926	0.04914606
COPPER	324.754	Axial	3248.170	0.1204843	0.1205109	0.1207518	0.1201903
IRON	271.441	Radial	4639.397	170.7514	170.9323	170.1994	171.1225
LANTHANUM	333.749	Radial	436.6633	0.5741964	0.5641498	0.5784214	0.5800179
LITHIUM	670.784	Radial	697.7521	0.08922586	0.08824106	0.08903601	0.09040050
MAGNESIUM	279.079	Radial	1380.657	25.50942	25.48755	25.51903	25.52167
MANGANESE	257.610	Axial	171896.6	2.507789	2.508221	2.512086	2.503060
MOLYBDENUM	202.030	Axial	3.835910	0.003873272	0.004465221	0.004226841	0.002927755
NICKEL	231.604	Axial	151.4944	0.09553897	0.09558007	0.09611281	0.09492402
PHOSPHORUS	177.495	Axial	570.6078	5.524041	5.537290	5.515896	5.518937
POTASSIUM	766.490	Radial	10299.78	29.96242	29.93072	29.73451	30.22204
SILICON	251.611	Axial	65350.10	16.47941	16.46543	16.51382	16.45897
SODIUM	589.592	Radial	1009.912	0.7821382	0.7891260	0.7764424	0.7808462
STRONTIUM	421.552	Radial	8879.397	0.2105056	0.2101804	0.2095631	0.2117733
SULFUR	182.034	Axial	45.67527	0.6869003	0.6942586	0.6784129	0.6880295
THALLIUM	190.856	Axial	-0.5067627	-0.01179635	-0.01295530	-0.01071517	-0.01171857
TIN	189.989	Axial	4.356020	0.01628523	0.01350010	0.01571926	0.01963634
TITANIUM	334.941	Radial	20333.52	4.868065	4.875424	4.851086	4.877683
VANADIUM	292.402	Radial	185.1982	0.2637386	0.2607109	0.2654525	0.2650524
ZINC	206.200	Axial	901.7533	0.5019926	0.5026273	0.5033172	0.5000334

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834933-01 DF: 1x Batch: WG2468048 Units: mg/kg
Analyzed: 03/13/25 18:25 Sequence: 172

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10742.41	10789.47	10683.67	10754.09
YTTRIUM	360.073	Axial	315738.8	317132.2	316653.5	313430.6
YTTRIUM	360.073	Radial	12487.04	12441.93	12371.73	12647.46
INDIUM	230.606	Axial	3141.769	3149.636	3135.168	3140.502

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.6521859	-0.0002326453	0.004199933	-0.0004597875	-0.004438081
CADMIUM	228.802	Axial	2.931275	0.0002457704	0.0002662398	0.0002561985	0.0002148728
CHROMIUM	267.716	Axial	353.7615	0.03707516	0.03641852	0.03766140	0.03714556
COPPER	324.754	Axial	1116.522	0.03672915	0.03701782	0.03716912	0.03600050
LEAD	220.353	Axial	4.986186	0.01043265	0.01061394	0.008930761	0.01175324
MOLYBDENUM	202.030	Axial	36.82844	0.04755800	0.04751040	0.04778556	0.04737803
NICKEL	231.604	Axial	32.43445	0.02175812	0.02256834	0.02080866	0.02189737
PHOSPHORUS	177.495	Axial	1776.793	17.48550	17.41831	17.57714	17.46106
POTASSIUM	766.490	Radial	1047.928	3.314788	3.314633	3.320723	3.309008
SELENIUM	196.090	Axial	1.487786	0.01253254	0.002911021	0.008185601	0.02650099
SILVER	328.068	Axial	114.4643	0.0009473761	0.001029013	0.001511345	0.0003017700
ZINC	206.200	Axial	310.0726	0.1724120	0.1713293	0.1731657	0.1727410
ALUMINUM	308.215	Radial	3468.414	35.52128	35.43676	35.72987	35.39720
ANTIMONY	206.833	Axial	-0.04378977	-0.002648686	-0.001404197	-0.006029367	-0.0005124955
BARIUM	233.527	Axial	942.0526	0.2325834	0.2309189	0.2330775	0.2337539
BERYLLIUM	313.042	Radial	4.410915	0.0004433440	0.0004429173	0.0004113909	0.0004757237
BORON	249.678	Radial	10.12635	0.02011720	0.01847576	0.01863255	0.02324328
CALCIUM	317.933	Radial	4138.802	5.490701	5.493258	5.524173	5.454673
CERIUM	535.353	Radial	337.0125	-0.02265197	0.01051493	0.007407584	-0.08587843
COBALT	228.616	Axial	3.353598	0.002004104	0.001635295	0.002025673	0.002351344
IRON	259.940	Radial	3022.238	5.738047	5.754001	5.749220	5.710921
LANTHANUM	333.749	Radial	12.77489	0.01362027	0.01236346	0.01107170	0.01742566
LITHIUM	670.784	Radial	9.416369	0.002891478	0.002597875	0.003221201	0.002855360
MAGNESIUM	279.079	Radial	85.37189	1.618873	1.592389	1.654128	1.610103
MANGANESE	257.610	Axial	962371.1	14.26233	14.21725	14.33116	14.23860
SILICON	251.611	Axial	35279.51	9.034897	9.021113	9.097735	8.985844
SODIUM	589.592	Radial	3525.199	2.917692	2.913202	2.933957	2.905917
STRONTIUM	421.552	Radial	2193.201	0.05315996	0.05312662	0.05317418	0.05317907
SULFUR	182.034	Axial	296.8627	4.690466	4.669603	4.710271	4.691523
THALLIUM	190.856	Axial	0.08766763	-0.006401599	-0.007741065	-0.006916487	-0.004547245
TIN	189.989	Axial	3.276697	0.01224453	0.01315843	0.01283651	0.01073864
TITANIUM	334.941	Radial	273.9540	0.06817530	0.06697998	0.06896604	0.06857988
VANADIUM	292.402	Radial	0.9065695	0.002318981	0.003214698	0.004316164	-0.0005739195

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/13/25 18:28 Sequence: 173 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10501.26	10469.28	10513.05	10521.46
YTTRIUM	360.073	Axial	301761.7	301033.0	300365.8	303886.2
YTTRIUM	360.073	Radial	12145.98	12068.03	12029.95	12339.96
INDIUM	230.606	Axial	2975.424	2967.325	2975.483	2983.463

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	927.6375	9.682370	9.628594	9.777675	9.640841
ANTIMONY	206.833	Axial	101.3910	0.4961717	0.4967187	0.4956893	0.4961072
ARSENIC	189.042	Axial	100.1284	0.9910561	0.9803657	0.9981229	0.9946795
BARIUM	233.527	Axial	2040.083	0.5151436	0.5163444	0.5147896	0.5142967
BERYLLIUM	313.042	Radial	6120.652	0.2014068	0.2016852	0.2024699	0.2000651
BORON	249.678	Radial	296.8921	0.9817810	0.9781911	0.9926330	0.9745188
CADMIUM	228.802	Axial	3054.240	0.4944176	0.4954843	0.4949288	0.4928395
CALCIUM	373.690	Radial	22609.34	52.06381	52.18853	52.43074	51.57217
CHROMIUM	267.716	Axial	9536.141	1.033866	1.035544	1.033282	1.032772
COBALT	228.616	Axial	3619.949	0.9810827	0.9833329	0.9826690	0.9772461
COPPER	324.754	Axial	24792.85	1.012438	1.016958	1.010645	1.009709
IRON	259.940	Radial	5052.789	9.920846	9.939961	9.982408	9.840169
LEAD	220.353	Axial	281.9599	0.4904382	0.4938072	0.4892140	0.4882933
LITHIUM	670.784	Radial	7633.136	1.014093	1.013771	1.016994	1.011512
MAGNESIUM	279.079	Radial	490.7131	9.582483	9.644952	9.639681	9.462816
MANGANESE	257.610	Axial	68069.24	1.031737	1.036100	1.030925	1.028187
MOLYBDENUM	202.030	Axial	189.5635	0.2551800	0.2552186	0.2548415	0.2554800
NICKEL	231.604	Axial	1611.964	0.9854614	0.9902149	0.9842609	0.9819083
PHOSPHORUS	177.495	Axial	97.45931	0.9753176	0.9639072	0.9703107	0.9917350
POTASSIUM	766.490	Radial	16321.77	50.05460	49.97947	50.34748	49.83684
SELENIUM	196.090	Axial	80.96593	0.9822238	0.9844512	0.9802839	0.9819363
SILICON	251.611	Axial	7973.084	2.085568	2.082693	2.076478	2.097532
SILVER	328.068	Axial	6253.329	0.5159741	0.5179085	0.5144024	0.5156114
SODIUM	818.326	Radial	3378.518	50.94886	50.86284	51.16906	50.81469
STRONTIUM	421.552	Radial	40209.43	1.009161	1.009149	1.012404	1.005931
SULFUR	182.034	Axial	286.2618	4.626398	4.634263	4.603731	4.641200
THALLIUM	190.856	Axial	108.5270	1.022397	1.016633	1.032534	1.018025
TIN	189.989	Axial	126.3335	0.5155595	0.5197479	0.5149469	0.5119837
TITANIUM	334.941	Radial	3931.443	0.9955043	0.9942704	0.9970242	0.9952182
VANADIUM	292.402	Radial	664.2119	0.9971679	0.9999813	1.001637	0.9898853
ZINC	206.200	Axial	1759.910	1.022621	1.028051	1.022315	1.017496
CERIUM	535.353	Radial	353.1596	0.08678487	0.02475204	0.1677429	0.06785961
HOT WATER SOL. BORON	249.678	Radial	296.8921	0.9817810	0.9781911	0.9926330	0.9745188
LANTHANUM	333.749	Radial	2.026859	-0.0008668774	0.0005390013	0.002087500	-0.005227134

Sample ID: CCB Units: mg/l
Analyzed: 03/13/25 18:31 Sequence: 174

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10983.88	11030.94	10977.30	10943.39
YTTRIUM	360.073	Axial	320557.8	320039.1	321557.9	320076.5
YTTRIUM	360.073	Radial	12381.69	12387.51	12376.83	12380.73
INDIUM	230.606	Axial	3322.932	3322.433	3330.801	3315.563

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	11.68973	0.004207532	-0.03350465	0.02970698	0.01642027
ANTIMONY	206.833	Axial	0.5144859	-0.000001863708	-0.003005732	-0.0006934064	0.003693547
ARSENIC	189.042	Axial	-0.2671178	0.003533504	0.003123666	0.003435480	0.004041364
BARIUM	233.527	Axial	2.353154	0.0006477062	0.00001204243	0.0001445084	0.001786568
BERYLLIUM	313.042	Radial	-10.5882	-0.00003864655	0.00003573246	-0.00004474659	-0.0001069255
BORON	249.678	Radial	3.358395	-0.001822929	-0.002192940	-0.003423368	0.0001475210
CADMIUM	228.802	Axial	5.932887	0.0007014468	0.0003176135	0.0005973078	0.001189419
CALCIUM	317.933	Radial	70.47454	-0.01317191	-0.01254303	-0.01382716	-0.01314554
CERIUM	535.353	Radial	335.2702	-0.01840356	0.04815744	-0.07628869	-0.02707942
CHROMIUM	267.716	Axial	4.231481	0.000003429852	0.0004514368	-0.0006308034	0.0001896561
COBALT	228.616	Axial	0.3077755	0.001220199	0.0002998268	0.0005707711	0.002790000
COPPER	324.754	Axial	219.4547	0.0004334089	0.0007901303	0.0003346994	0.0001753969
HOT WATER SOL. BORON	249.678	Radial	3.358395	-0.001822929	-0.002192940	-0.003423368	0.0001475210
IRON	259.940	Radial	51.98114	0.02048320	0.02054978	0.02216874	0.01873108
LANTHANUM	333.749	Radial	4.108422	0.001899880	0.002086903	-0.0008255084	0.004438244
LEAD	220.353	Axial	-0.5918923	0.001341407	0.001375521	0.0005629500	0.002085749
LITHIUM	670.784	Radial	-2.40719	0.001362755	0.001021127	0.001532931	0.001534207
MAGNESIUM	279.079	Radial	1.295392	0.02162033	0.009555292	0.01752903	0.03777668
MANGANESE	257.610	Axial	35.29789	0.0002894708	0.0002821063	0.0002433152	0.0003429908
MOLYBDENUM	202.030	Axial	1.232908	0.0004765417	0.00004270531	0.0002603366	0.001126583
NICKEL	231.604	Axial	-3.18873	0.001299933	0.0002172871	0.0009519869	0.002730525
PHOSPHORUS	177.495	Axial	1.036889	0.003876300	0.0003830357	0.004165725	0.007080139
POTASSIUM	766.490	Radial	-66.2850	0.002906669	0.01391079	0.006091836	-0.01128262
SELENIUM	196.090	Axial	0.4920768	0.0005461840	-0.006235026	0.004127183	0.003746394
SILICON	251.611	Axial	45.25933	0.007257633	0.005697882	0.006182256	0.009892763
SILVER	328.068	Axial	105.1324	-0.000007542009	-0.0002797877	0.000007271928	0.0002498897
SODIUM	589.592	Radial	49.05818	-0.001181559	0.003368900	-0.01093831	0.004024733
STRONTIUM	421.552	Radial	14.04088	-0.00005465888	0.00005663512	0.000004037375	-0.0002246491
SULFUR	182.034	Axial	1.756903	-0.0004373825	-0.01267413	-0.003774752	0.01513674
THALLIUM	190.856	Axial	0.9124497	0.0009356842	-0.004405821	0.007010092	0.0002027817
TIN	189.989	Axial	0.2798326	0.0002433242	0.0009496005	-0.0002989050	0.00007927719
TITANIUM	334.941	Radial	-1.21973	0.0004495868	0.0005665198	-0.0003011052	0.001083346
VANADIUM	292.402	Radial	-1.95541	-0.001899584	-0.001911964	0.0005664239	-0.004353212
ZINC	206.200	Axial	2.845659	-0.002898127	-0.004469438	-0.003021682	-0.001203260

Sample ID: ICSA Units: mg/l
Analyzed: 03/13/25 22:18 Sequence: 252 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9486.543	9469.337	9493.357	9496.936
YTTRIUM	360.073	Axial	269362.1	270115.4	270165.1	267805.8
YTTRIUM	360.073	Radial	11684.57	11770.71	11646.11	11636.90
INDIUM	230.606	Axial	2486.965	2482.613	2487.575	2490.707

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	46032.35	505.3351	505.8503	505.7170	504.4379
ANTIMONY	206.833	Axial	0.3267583	-0.0006532052	-0.002616034	-0.005579106	0.006235525
ARSENIC	189.042	Axial	-2.05158	-0.01629296	-0.01046723	-0.02965537	-0.008756283
BARIUM	233.527	Axial	9.142985	0.002632681	0.002610267	0.002191768	0.003096007
BERYLLIUM	313.042	Radial	-9.80176	-0.00003234007	0.00002066444	-0.00001206480	-0.0001056198
BORON	249.678	Radial	-2.73210	-0.02239664	-0.01645272	-0.01866653	-0.03207068
CADMIUM	228.802	Axial	8.296465	0.001268700	0.0009566251	0.0009998877	0.001849589
CALCIUM	373.690	Radial	212379.4	508.7988	508.0651	509.6924	508.6391
CERIUM	535.353	Radial	305.7176	-0.06648212	-0.03608298	-0.07621965	-0.08714374
CHROMIUM	267.716	Axial	-25.9759	-0.003552520	-0.002452520	-0.003893750	-0.004311291
COBALT	228.616	Axial	0.4992230	0.001305907	0.001746787	0.0007707714	0.001400164
COPPER	324.754	Axial	-123.123	-0.01381373	-0.01385845	-0.01388039	-0.01370235
HOT WATER SOL. BORON	249.678	Radial	-2.73210	-0.02239664	-0.01645272	-0.01866653	-0.03207068
IRON	271.441	Radial	4856.766	196.4042	195.7523	196.8933	196.5670
LANTHANUM	333.749	Radial	-7.63597	-0.01484770	-0.01304281	-0.02217031	-0.009329975
LEAD	220.353	Axial	-6.34501	-0.01088692	-0.01248488	-0.01054497	-0.009630905
LITHIUM	670.784	Radial	5.072012	0.002375146	0.002375495	0.002346488	0.002403454
MAGNESIUM	279.079	Radial	24589.60	499.2603	497.2312	501.0486	499.5010
MANGANESE	257.610	Axial	127.0268	0.001909612	0.001982454	0.001871430	0.001874952
MOLYBDENUM	202.030	Axial	1.565003	0.001225354	0.003256962	-0.001682476	0.002101575
NICKEL	231.604	Axial	-16.6308	-0.009087166	-0.008237630	-0.01023154	-0.008792323
PHOSPHORUS	177.495	Axial	1.556445	0.01124096	0.01744175	0.01227530	0.004005829
POTASSIUM	766.490	Radial	-41.3058	0.07038555	0.06695543	0.04407402	0.1001272
SELENIUM	196.090	Axial	0.5061991	0.001619454	-0.005434097	-0.01270312	0.02299558
SILICON	251.611	Axial	-66.4602	-0.02337069	-0.02386172	-0.02391234	-0.02233801
SILVER	328.068	Axial	76.68113	-0.001317933	-0.0001756006	-0.001853588	-0.001924610
SODIUM	589.592	Radial	147.8315	0.08990557	0.09971196	0.08445227	0.08555248
STRONTIUM	421.552	Radial	254.7886	0.006247949	0.006567639	0.005986085	0.006190123
SULFUR	182.034	Axial	-8.04069	-0.1724963	-0.1734108	-0.1733829	-0.1706953
THALLIUM	190.856	Axial	-0.2846406	-0.01022461	-0.006915425	-0.01483191	-0.008926506
TIN	189.989	Axial	-1.08040	-0.005735181	-0.003316667	-0.005228285	-0.008660591
TITANIUM	334.941	Radial	-50.4882	-0.01252206	-0.01381774	-0.01157326	-0.01217518
VANADIUM	292.402	Radial	-4.96507	-0.006771888	-0.004535729	-0.006810157	-0.008969777
ZINC	206.200	Axial	41.52442	0.02233576	0.02205894	0.02211357	0.02283478

Sample ID: ICSAB Units: mg/l
Analyzed: 03/13/25 22:20 Sequence: 253 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9513.342	9570.839	9469.720	9499.468
YTTRIUM	360.073	Axial	272047.0	272039.8	272885.9	271215.5
YTTRIUM	360.073	Radial	11637.48	11563.52	11699.54	11649.38
INDIUM	230.606	Axial	2483.061	2493.668	2471.982	2483.535

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	47001.12	518.0715	520.1193	515.6839	518.4114
ANTIMONY	206.833	Axial	92.74180	0.5010112	0.4981238	0.5062872	0.4986225
ARSENIC	189.042	Axial	45.00226	0.4947538	0.4880560	0.4968992	0.4993063
BARIUM	233.527	Axial	1854.882	0.5170239	0.5147628	0.5198555	0.5164535
BERYLLIUM	313.042	Radial	14701.05	0.5044189	0.5067169	0.5008483	0.5056914
BORON	249.678	Radial	282.2326	0.9739188	0.9777625	0.9809176	0.9630763
CADMIUM	228.802	Axial	5858.873	1.047177	1.041741	1.051026	1.048763
CALCIUM	373.690	Radial	216487.7	520.7474	522.8983	518.2592	521.0847
CERIUM	535.353	Radial	304.3911	-0.06664474	-0.01812408	-0.08743191	-0.09437823
CHROMIUM	267.716	Axial	4205.212	0.5030394	0.5001367	0.5048068	0.5041748
COBALT	228.616	Axial	1528.217	0.4968771	0.4938006	0.4996752	0.4971555
COPPER	324.754	Axial	11967.83	0.5356425	0.5313533	0.5352912	0.5402830
HOT WATER SOL. BORON	249.678	Radial	282.2326	0.9739188	0.9777625	0.9809176	0.9630763
IRON	271.441	Radial	4936.498	200.4381	201.7853	199.4803	200.0486
LANTHANUM	333.749	Radial	-7.41518	-0.01459433	-0.02338580	-0.009426632	-0.01097055
LEAD	220.353	Axial	465.1863	0.9673739	0.9653888	0.9696831	0.9670498
LITHIUM	670.784	Radial	14.62770	0.003701386	0.004094450	0.003920256	0.003089452
MAGNESIUM	279.079	Radial	25307.39	515.9160	518.2404	513.0224	516.4853
MANGANESE	257.610	Axial	30400.80	0.5085306	0.5067876	0.5094355	0.5093687
MOLYBDENUM	202.030	Axial	335.6216	0.4997893	0.4970638	0.5019864	0.5003177
NICKEL	231.604	Axial	1319.335	0.9665655	0.9611721	0.9725324	0.9659919
PHOSPHORUS	177.495	Axial	1.376445	0.009155355	0.01665617	-0.001316100	0.01212600
POTASSIUM	766.490	Radial	-50.7801	0.03953501	0.001511688	0.04305393	0.07403942
SELENIUM	196.090	Axial	37.64502	0.5016118	0.4924486	0.5168780	0.4955090
SILICON	251.611	Axial	3393.991	0.9778336	0.9711461	0.9788649	0.9834897
SILVER	328.068	Axial	9180.498	0.8414113	0.8339129	0.8390325	0.8512886
SODIUM	589.592	Radial	133.0402	0.07716687	0.08225992	0.07453663	0.07470405
STRONTIUM	421.552	Radial	263.9162	0.006514523	0.006300078	0.006612462	0.006631028
SULFUR	182.034	Axial	-8.15907	-0.1742412	-0.1633767	-0.1759266	-0.1834202
THALLIUM	190.856	Axial	44.75197	0.4636878	0.4433435	0.4915307	0.4561893
TIN	189.989	Axial	104.6627	0.4714088	0.4681862	0.4736447	0.4723955
TITANIUM	334.941	Radial	1859.988	0.4919533	0.4953602	0.4866425	0.4938573
VANADIUM	292.402	Radial	303.6308	0.4762339	0.4769685	0.4784450	0.4732881
ZINC	206.200	Axial	1506.026	0.9657311	0.9615951	0.9700633	0.9655349

Sample ID: CALBLK Units: mg/l
Analyzed: 03/13/25 08:10 Sequence: 2 Standard ID: 25C10350

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	13082.25	13070.77	13081.14	13094.83
YTTRIUM	360.073	Axial	201455.9	201010.9	201365.5	201991.2
YTTRIUM	360.073	Radial	3123.816	3141.967	3122.489	3106.991
INDIUM	230.606	Axial	5299.531	5292.791	5303.475	5302.328

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	-0.7975806	-2.232628	0.3070214	-0.4671358
ANTIMONY	206.833	Axial	1.426624	1.747566	1.682983	0.8493227
ARSENIC	189.042	Axial	0.05940668	-0.2107893	0.1975238	0.1914856
BARIUM	233.527	Axial	-2.63082	-1.317707	-3.263593	-3.311162
BERYLLIUM	313.042	Radial	-0.3055046	0.2499583	-2.249625	1.083153
BORON	249.678	Radial	1.305338	2.749542	0.2916181	0.8748542
CADMIUM	228.802	Axial	-10.3472	-11.66235	-9.531025	-9.848266
CALCIUM	317.933	Radial	145.2536	145.6979	144.4481	145.6146
CALCIUM	373.690	Radial	4.193745	5.332445	3.374438	3.874354
CERIUM	535.353	Radial	29.13403	32.86952	32.07799	22.45459
CHROMIUM	267.716	Axial	-10.1298	-17.81255	-4.497751	-8.079294
COBALT	228.616	Axial	-4.58191	-3.994631	-2.980024	-6.771083
COPPER	324.754	Axial	231.1165	241.4335	228.4900	223.4259
IRON	259.940	Radial	0.1388657	0.2499583	0.08331945	0.08331945
IRON	271.441	Radial	0.2083954	0.1666851	0.08347460	0.3750266
LANTHANUM	333.749	Radial	1.342369	4.249292	0.3610509	-0.5832361
LEAD	220.353	Axial	-0.04860878	0.5903347	0.4625944	-1.198755
LITHIUM	670.784	Radial	-28.2175	-26.82886	-23.41276	-34.41093
MAGNESIUM	279.079	Radial	-1.98578	-0.2082986	-4.415931	-1.333111
MANGANESE	257.610	Axial	-3.16490	-0.7907441	-3.664834	-5.039147
MOLYBDENUM	202.030	Axial	0.3851700	-0.1774623	-0.3105590	1.643531
NICKEL	231.604	Axial	9.382590	11.62338	8.007788	8.516599
PHOSPHORUS	177.495	Axial	-8.88704	-8.591915	-9.800489	-8.268714
POTASSIUM	766.490	Radial	9.803922	5.790702	4.290952	19.33011
SELENIUM	196.090	Axial	1.072589	1.048726	0.6240383	1.545002
SILICON	251.611	Axial	4.140485	3.926582	5.303377	3.191495
SILVER	328.068	Axial	12.00415	19.39102	18.55699	-1.935557
SODIUM	589.592	Radial	33.96656	35.45242	43.82603	22.62123
SODIUM	818.326	Radial	-27.8564	-27.87035	-27.24546	-28.45359
STRONTIUM	421.552	Radial	0.4721435	5.138033	-0.4721435	-3.249458
SULFUR	182.034	Axial	2.936805	2.406832	3.249778	3.153803
THALLIUM	190.856	Axial	-0.8707499	0.05193222	-1.452894	-1.211288
TIN	189.989	Axial	-0.2977304	0.02280007	-0.6956291	-0.2203621
TITANIUM	334.941	Radial	1.823770	1.749708	1.444204	2.277398
VANADIUM	292.402	Radial	-1.22210	-0.5833014	-1.958040	-1.124959
ZINC	206.200	Axial	11.24829	10.26007	11.72413	11.76066

Sample ID: STD1 Units: mg/l
Analyzed: 03/13/25 08:13 Sequence: 3 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	13072.72	13080.04	13096.10	13042.01
YTTRIUM	360.073	Axial	201684.1	201477.8	202024.7	201549.8
YTTRIUM	360.073	Radial	3145.636	3115.879	3190.255	3130.775
INDIUM	230.606	Axial	5267.201	5283.776	5264.056	5253.770

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	7.220111	8.778821	7.270878	5.610634
ANTIMONY	206.833	Axial	6.089362	6.869632	5.712874	5.685580
ARSENIC	189.042	Axial	2.035084	2.477423	2.255206	1.372624
BARIUM	233.527	Axial	24.43146	25.60749	24.04315	23.64375
BERYLLIUM	313.042	Radial	28.63412	26.74554	27.74538	31.41143
BORON	249.678	Radial	12.37294	11.83136	14.37260	10.91485
CADMIUM	228.802	Axial	9.077768	9.477085	7.290720	10.46550
CALCIUM	317.933	Radial	387.6298	385.5191	390.6016	386.7689
CHROMIUM	267.716	Axial	105.1457	107.9574	108.2792	99.20040
COBALT	228.616	Axial	50.47722	51.86732	47.81941	51.74494
COPPER	324.754	Axial	401.3421	393.5935	404.3327	406.1001
IRON	259.940	Radial	7.582070	6.894684	6.811365	9.040160
LEAD	220.353	Axial	4.453734	5.089167	3.943038	4.328996
LITHIUM	670.784	Radial	50.39438	62.48959	43.07615	45.61740
MAGNESIUM	279.079	Radial	19.76060	19.99667	19.33011	19.95501
MANGANESE	257.610	Axial	628.0467	626.5607	634.7243	622.8552
MOLYBDENUM	202.030	Axial	11.67779	10.41644	11.31322	13.30372
NICKEL	231.604	Axial	34.26899	36.87188	33.70179	32.23329
PHOSPHORUS	177.495	Axial	0.4021057	-0.1116046	1.385502	-0.06757990
POTASSIUM	766.490	Radial	274.9264	272.4963	286.5356	265.7474
SELENIUM	196.090	Axial	2.505968	2.526235	1.923743	3.067927
SILICON	251.611	Axial	291.9701	286.4273	296.4169	293.0660
SILVER	328.068	Axial	95.46326	83.82911	109.8695	92.69116
SODIUM	589.592	Radial	922.4851	911.3898	939.1351	916.9305
STRONTIUM	421.552	Radial	203.3828	200.4388	205.5491	204.1604
SULFUR	182.034	Axial	92.70664	92.33759	93.65572	92.12660
THALLIUM	190.856	Axial	1.357171	1.292828	1.525485	1.253198
TIN	189.989	Axial	17.87393	17.76124	18.94065	16.91989
TITANIUM	334.941	Radial	45.64054	45.46464	46.65889	44.79809
VANADIUM	292.402	Radial	5.748112	3.248203	9.247643	4.748491
ZINC	206.200	Axial	180.0584	180.3591	179.8855	179.9307

Sample ID: STD2 Units: mg/l
Analyzed: 03/13/25 08:16 Sequence: 4 Standard ID: 25C13924

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	13070.88	13106.11	13023.62	13082.91
YTTRIUM	360.073	Axial	199579.6	199686.7	199543.9	199508.2
YTTRIUM	360.073	Radial	3156.382	3157.779	3154.614	3156.753
INDIUM	230.606	Axial	5189.119	5184.270	5189.896	5193.192

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	80.74675	80.27482	82.39471	79.57073
ANTIMONY	206.833	Axial	42.34914	42.02534	42.54361	42.47847
ARSENIC	189.042	Axial	44.01348	43.30763	44.81079	43.92203
BARIUM	233.527	Axial	494.0560	491.7852	494.1130	496.2698
BERYLLIUM	313.042	Radial	567.3550	567.7387	568.2651	566.0613
CADMIUM	228.802	Axial	1039.008	1038.842	1038.963	1039.218
CALCIUM	317.933	Radial	2494.521	2496.140	2496.781	2490.642
CHROMIUM	267.716	Axial	2232.754	2231.441	2225.391	2241.431
COBALT	228.616	Axial	1057.177	1056.244	1058.903	1056.384
COPPER	324.754	Axial	3356.998	3342.746	3358.121	3370.127
IRON	259.940	Radial	141.2556	141.4139	142.1287	140.2241
LEAD	220.353	Axial	87.16482	88.58845	87.46441	85.44161
LITHIUM	670.784	Radial	1005.568	1004.624	999.0426	1013.037
MAGNESIUM	279.079	Radial	41.85460	43.15947	39.79354	42.61080
MANGANESE	257.610	Axial	11749.43	11743.34	11768.46	11736.48
MOLYBDENUM	202.030	Axial	116.1483	114.8346	117.9214	115.6891
NICKEL	231.604	Axial	514.7530	512.8890	514.3922	516.9778
PHOSPHORUS	177.495	Axial	9.500191	8.994851	9.238650	10.26707
POTASSIUM	766.490	Radial	2713.548	2710.923	2703.713	2726.008
SELENIUM	196.090	Axial	33.84756	34.79406	33.65620	33.09241
SILICON	251.611	Axial	581.4173	586.9270	578.3399	578.9851
SILVER	328.068	Axial	1613.242	1629.480	1597.627	1612.618
SODIUM	589.592	Radial	7972.266	7965.672	7962.746	7988.379
STRONTIUM	421.552	Radial	3977.434	3979.420	3990.315	3962.568
THALLIUM	190.856	Axial	41.68989	41.55825	40.77186	42.73956
TIN	189.989	Axial	35.15379	34.83920	35.23129	35.39090
TITANIUM	334.941	Radial	170.6551	168.8607	171.4674	171.6372
VANADIUM	292.402	Radial	60.62908	60.14893	60.76554	60.97279
ZINC	206.200	Axial	646.8919	645.8171	648.7611	646.0974

Sample ID: STD3 Units: mg/l
Analyzed: 03/13/25 08:19 Sequence: 5 Standard ID: 25C13926

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12909.34	12882.82	12921.34	12923.84
YTTRIUM	360.073	Axial	196200.6	196783.0	195575.4	196243.5
YTTRIUM	360.073	Radial	3118.948	3098.458	3123.170	3135.215
INDIUM	230.606	Axial	5068.556	5051.471	5076.271	5077.925

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	157.5174	157.9287	159.0511	155.5723
ANTIMONY	206.833	Axial	82.52345	82.18654	82.61593	82.76786
ARSENIC	189.042	Axial	85.99454	85.53250	86.48013	85.97098
BARIUM	233.527	Axial	972.6475	973.1528	974.9899	969.7996
BERYLLIUM	313.042	Radial	1135.327	1127.431	1133.733	1144.818
BORON	249.678	Radial	23.79747	21.28013	25.07485	25.03743
CADMIUM	228.802	Axial	2066.216	2064.177	2066.681	2067.788
CALCIUM	317.933	Radial	4806.923	4770.768	4840.375	4809.627
CHROMIUM	267.716	Axial	4343.001	4369.533	4313.926	4345.545
COBALT	228.616	Axial	2077.262	2076.732	2078.817	2076.236
COPPER	324.754	Axial	6383.835	6405.162	6365.558	6380.786
IRON	259.940	Radial	277.4282	277.8263	276.2392	278.2191
LEAD	220.353	Axial	174.7639	174.9585	173.8531	175.4802
LITHIUM	670.784	Radial	2029.449	2040.025	2040.502	2007.819
MAGNESIUM	279.079	Radial	81.32810	81.62926	83.79075	78.56430
MANGANESE	257.610	Axial	23031.04	23013.10	23003.71	23076.31
MOLYBDENUM	202.030	Axial	227.5221	226.5750	229.1676	226.8236
NICKEL	231.604	Axial	985.6409	978.7588	989.5085	988.6555
PHOSPHORUS	177.495	Axial	27.44339	28.08209	27.92452	26.32355
POTASSIUM	766.490	Radial	5373.883	5347.007	5385.063	5389.577
SELENIUM	196.090	Axial	65.97779	65.27108	65.45762	67.20466
SILICON	251.611	Axial	1151.463	1154.770	1144.443	1155.176
SILVER	328.068	Axial	3174.688	3167.618	3184.148	3172.299
SODIUM	589.592	Radial	15693.82	15675.60	15691.03	15714.81
STRONTIUM	421.552	Radial	7676.822	7673.261	7675.122	7682.083
SULFUR	182.034	Axial	180.5385	180.7897	181.1099	179.7158
THALLIUM	190.856	Axial	80.46541	81.90573	79.65960	79.83090
TIN	189.989	Axial	68.89562	69.14568	69.37665	68.16453
TITANIUM	334.941	Radial	336.1520	332.8623	340.3194	335.2742
VANADIUM	292.402	Radial	123.0587	122.9694	124.3195	121.8872
ZINC	206.200	Axial	1262.728	1261.850	1265.593	1260.742

Sample ID: STD4 Units: mg/l
Analyzed: 03/13/25 08:21 Sequence: 6 Standard ID: 25C13927

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12647.73	12618.46	12681.63	12643.08
YTTRIUM	360.073	Axial	191554.0	191656.6	191695.0	191310.3
YTTRIUM	360.073	Radial	3107.886	3121.427	3092.920	3109.312
INDIUM	230.606	Axial	4852.190	4827.935	4876.983	4851.652

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	396.3338	398.4500	396.7503	393.8010
ANTIMONY	206.833	Axial	198.3557	195.7839	199.9789	199.3044
ARSENIC	189.042	Axial	215.5181	214.9811	215.5696	216.0037
BARIUM	233.527	Axial	2348.301	2341.939	2360.166	2342.798
BERYLLIUM	313.042	Radial	2772.028	2786.106	2761.373	2768.605
BORON	249.678	Radial	57.09659	58.94343	56.57390	55.77243
CADMIUM	228.802	Axial	4996.498	4983.397	5023.322	4982.775
CALCIUM	317.933	Radial	11294.85	11321.02	11260.10	11303.43
CALCIUM	373.690	Radial	9888.210	9942.097	9810.573	9911.960
CHROMIUM	267.716	Axial	10472.87	10475.87	10493.60	10449.14
COBALT	228.616	Axial	5007.275	5003.156	5025.458	4993.212
COPPER	324.754	Axial	15177.37	15144.92	15231.91	15155.29
IRON	259.940	Radial	685.2424	693.2820	680.0325	682.4128
IRON	271.441	Radial	90.37617	93.44498	89.12786	88.55565
LEAD	220.353	Axial	419.7197	419.6363	419.7258	419.7969
LITHIUM	670.784	Radial	5068.158	5088.977	5015.247	5100.249
MAGNESIUM	279.079	Radial	205.8411	208.4443	205.5907	203.4884
MANGANESE	257.610	Axial	55981.95	55882.78	56107.42	55955.66
MOLYBDENUM	202.030	Axial	551.5894	550.8259	555.3286	548.6139
NICKEL	231.604	Axial	2353.629	2355.038	2355.394	2350.455
PHOSPHORUS	177.495	Axial	80.89368	80.76159	80.89836	81.02110
POTASSIUM	766.490	Radial	12963.13	12949.79	12928.35	13011.25
SELENIUM	196.090	Axial	158.0792	156.8526	159.0882	158.2968
SILICON	251.611	Axial	2836.709	2834.491	2843.978	2831.658
SILVER	328.068	Axial	7603.419	7575.098	7622.599	7612.562
SODIUM	589.592	Radial	38578.35	38743.43	38358.94	38632.68
SODIUM	818.326	Radial	1616.692	1624.002	1603.483	1622.591
STRONTIUM	421.552	Radial	18885.21	18984.72	18759.51	18911.41
SULFUR	182.034	Axial	438.4009	435.9384	440.5972	438.6671
THALLIUM	190.856	Axial	194.4832	194.6107	195.5875	193.2513
TIN	189.989	Axial	166.6461	165.8194	167.5286	166.5903
TITANIUM	334.941	Radial	830.6525	833.2779	829.0563	829.6235
VANADIUM	292.402	Radial	303.9402	305.7870	302.1647	303.8690
ZINC	206.200	Axial	3053.798	3054.173	3060.045	3047.177

Sample ID: STD5 Units: mg/l
Analyzed: 03/13/25 08:24 Sequence: 7 Standard ID: 25C13929

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12390.20	12383.11	12412.21	12375.28
YTTRIUM	360.073	Axial	187273.6	187541.5	186921.4	187357.9
YTTRIUM	360.073	Radial	3082.919	3089.684	3060.541	3098.532
INDIUM	230.606	Axial	4639.647	4627.013	4650.520	4641.409

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	781.5709	783.8376	781.1153	779.7598
ANTIMONY	206.833	Axial	393.9886	393.2853	396.3556	392.3250
ARSENIC	189.042	Axial	429.7556	429.4323	430.9758	428.8587
BARIUM	233.527	Axial	4537.526	4534.221	4545.485	4532.871
BERYLLIUM	313.042	Radial	5486.086	5491.681	5483.547	5483.031
BORON	249.678	Radial	111.4179	109.7754	110.1047	114.3736
CADMIUM	228.802	Axial	9864.342	9861.137	9883.314	9848.576
CALCIUM	373.690	Radial	19550.82	19610.11	19570.13	19472.22
CHROMIUM	267.716	Axial	20504.19	20483.78	20436.18	20592.62
COBALT	228.616	Axial	9739.604	9749.329	9756.419	9713.063
COPPER	324.754	Axial	29962.85	29959.22	29891.64	30037.68
IRON	271.441	Radial	180.7364	179.2779	181.4790	181.4524
LEAD	220.353	Axial	816.0254	812.5087	817.9673	817.6000
LITHIUM	670.784	Radial	10100.02	10092.60	10119.74	10087.71
MAGNESIUM	279.079	Radial	408.1952	410.8153	404.3543	409.4161
MANGANESE	257.610	Axial	109778.6	109657.6	109777.3	109900.7
MOLYBDENUM	202.030	Axial	1084.877	1080.550	1084.635	1089.446
NICKEL	231.604	Axial	4586.409	4591.851	4589.381	4577.995
PHOSPHORUS	177.495	Axial	169.4579	168.9221	169.7727	169.6788
POTASSIUM	766.490	Radial	25894.61	25989.89	25918.19	25775.74
SELENIUM	196.090	Axial	315.9828	314.1394	317.9162	315.8928
SILICON	251.611	Axial	5648.263	5645.424	5617.901	5681.465
SILVER	328.068	Axial	14837.40	14863.54	14839.96	14808.70
SODIUM	818.326	Radial	3257.250	3267.970	3254.778	3249.002
STRONTIUM	421.552	Radial	37447.08	37554.46	37428.18	37358.59
SULFUR	182.034	Axial	883.1785	882.2035	882.9908	884.3414
THALLIUM	190.856	Axial	385.6813	385.2049	387.1732	384.6658
TIN	189.989	Axial	327.8001	326.5683	328.8637	327.9683
TITANIUM	334.941	Radial	1649.859	1657.460	1652.125	1639.993
VANADIUM	292.402	Radial	609.1843	608.7484	610.2829	608.5215
ZINC	206.200	Axial	5964.896	5962.032	5982.933	5949.723

Sample ID: STD6 Units: mg/l
Analyzed: 03/13/25 08:26 Sequence: 8 Standard ID: 25C13930

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12018.08	11988.56	12024.73	12040.96
YTTRIUM	360.073	Axial	180854.7	180501.7	180412.5	181649.8
YTTRIUM	360.073	Radial	3059.480	3070.997	3067.493	3039.949
INDIUM	230.606	Axial	4364.980	4361.098	4365.528	4368.315

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1550.813	1551.615	1557.930	1542.895
ANTIMONY	206.833	Axial	767.6488	766.3564	766.4662	770.1238
ARSENIC	189.042	Axial	827.0302	826.7504	826.6060	827.7343
BARIUM	233.527	Axial	8621.687	8623.051	8621.700	8620.309
BERYLLIUM	313.042	Radial	10785.38	10829.79	10802.76	10723.58
BORON	249.678	Radial	222.4572	223.2929	219.4990	224.5798
CADMIUM	228.802	Axial	19091.33	19116.03	19069.63	19088.33
CALCIUM	373.690	Radial	38328.43	38459.09	38377.50	38148.69
CERIUM	535.353	Radial	1308.669	1318.201	1302.347	1305.458
CHROMIUM	267.716	Axial	39384.44	39411.51	39419.20	39322.61
COBALT	228.616	Axial	18444.30	18446.85	18437.64	18448.41
COPPER	324.754	Axial	58111.38	58037.58	58001.68	58294.86
IRON	271.441	Radial	353.1559	355.0305	352.4769	351.9603
LANTHANUM	333.749	Radial	2836.407	2842.665	2831.586	2834.970
LEAD	220.353	Axial	1547.370	1546.081	1545.226	1550.804
LITHIUM	670.784	Radial	20083.47	20159.00	20091.42	20000
MAGNESIUM	279.079	Radial	796.5330	794.6503	797.5616	797.3873
MANGANESE	257.610	Axial	209258.0	209371.3	209150.4	209252.2
MOLYBDENUM	202.030	Axial	2084.739	2084.735	2086.072	2083.411
NICKEL	231.604	Axial	8638.326	8648.390	8625.265	8641.323
PHOSPHORUS	177.495	Axial	339.8409	339.8369	340.1855	339.5003
POTASSIUM	766.490	Radial	52119.11	52300.71	52254.83	51801.80
SELENIUM	196.090	Axial	620.3533	623.6327	619.9063	617.5207
SILICON	251.611	Axial	11039.44	10972.18	11064.04	11082.09
SILVER	328.068	Axial	28389.35	28423.15	28356.18	28388.73
SODIUM	818.326	Radial	6464.807	6488.038	6463.341	6443.044
STRONTIUM	421.552	Radial	74270.34	74507.37	74342.13	73961.53
SULFUR	182.034	Axial	1740.407	1741.669	1742.947	1736.605
THALLIUM	190.856	Axial	713.1824	715.4722	716.9747	707.1004
TIN	189.989	Axial	624.2640	624.2406	624.6914	623.8599
TITANIUM	334.941	Radial	3254.816	3269.175	3259.404	3235.868
VANADIUM	292.402	Radial	1196.579	1197.485	1194.686	1197.566
ZINC	206.200	Axial	11329.14	11326.59	11326.14	11334.69

Sample ID: STD7 Units: mg/l
Analyzed: 03/13/25 08:29 Sequence: 9 Standard ID: 25C09297

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11367.56	11362.48	11355.83	11384.36
YTTRIUM	360.073	Axial	169619.1	169411.6	169657.7	169788.1
YTTRIUM	360.073	Radial	2990.088	3007.549	2976.078	2986.635
INDIUM	230.606	Axial	3936.794	3937.208	3947.700	3925.474

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	18741.73	18800.44	18663.08	18761.65
CALCIUM	373.690	Radial	91157.51	91549.83	90692.02	91230.67
IRON	271.441	Radial	1717.219	1720.733	1714.423	1716.501
MAGNESIUM	279.079	Radial	9988.891	10028.81	9964.879	9972.984
SODIUM	818.326	Radial	16264.78	16321.77	16217.17	16255.40
SULFUR	182.034	Axial	8388.143	8402.474	8365.893	8396.063

Sample ID: ICV-3 Units: mg/l
Analyzed: 03/13/25 08:32 Sequence: 10 Standard ID: 25C13928

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	12931.41	12948.83	12919.93	12961.34	12895.56
YTTRIUM	360.073	Axial	197028.6	197466.7	197499.0	196198.4	196950.3
YTTRIUM	360.073	Radial	3168.962	3181.239	3149.253	3197.335	3148.022
INDIUM	230.606	Axial	5076.090	5071.126	5060.093	5089.663	5083.480

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	409.5647	10.32891	10.28597	10.39212	10.26176
ANTIMONY	206.833	Axial	398.4455	0.9652950	0.9668537	0.9617989	0.9652799
ARSENIC	189.042	Axial	221.1973	0.9933183	0.9919134	0.9973488	0.9955976
BARIUM	233.527	Axial	4839.681	1.037192	1.041182	1.039347	1.035931
BERYLLIUM	313.042	Radial	14000.10	0.9998982	1.000328	0.9998527	0.9972964
BORON	249.678	Radial	58.04489	0.9928937	1.009464	0.9616527	0.9956962
CADMIUM	228.802	Axial	10084.65	0.9818857	0.9844930	0.9820167	0.9824932
CALCIUM	317.933	Radial	2491.110	10.23807	10.21531	10.28015	10.18068
CHROMIUM	267.716	Axial	11066.07	1.030752	1.029561	1.027550	1.031162
COBALT	228.616	Axial	5193.526	0.9715935	0.9771737	0.9778181	0.9706474
COPPER	324.754	Axial	15671.46	0.9821280	0.9770380	0.9850821	0.9812683
IRON	259.940	Radial	709.2589	10.13518	10.13352	10.11377	10.12620
LEAD	220.353	Axial	873.5978	0.9737980	0.9794014	0.9780407	0.9675410
LITHIUM	670.784	Radial	5228.607	1.009682	1.008579	1.013289	1.008122
MAGNESIUM	279.079	Radial	210.5907	10.04107	10.17738	10.02213	9.954640
MANGANESE	257.610	Axial	59064.62	1.033144	1.029937	1.032023	1.034657
MOLYBDENUM	202.030	Axial	2320.286	1.032148	1.033881	1.030442	1.035377
NICKEL	231.604	Axial	2460.480	0.9786175	0.9835606	0.9838899	0.9747210
PHOSPHORUS	177.495	Axial	81.93031	0.9719284	0.9524847	0.9903350	0.9710710
POTASSIUM	766.490	Radial	2709.881	10.04022	10.05834	10.04887	10.02441
SELENIUM	196.090	Axial	160.2881	0.9599889	0.9574508	0.9622524	0.9697245
SILICON	251.611	Axial	1507.697	1.004751	0.9868793	0.9986722	1.007798
SILVER	328.068	Axial	15289.38	0.9858930	0.9842241	0.9865555	0.9844393
SODIUM	589.592	Radial	8064.673	10.19456	10.18605	10.21535	10.16106
STRONTIUM	421.552	Radial	7866.051	0.4088301	0.4095256	0.4079430	0.4083088
SULFUR	182.034	Axial	895.0920	9.364990	9.379864	9.402753	9.348925
THALLIUM	190.856	Axial	211.2561	1.019199	1.015096	1.022119	1.026490
TIN	189.989	Axial	351.6184	1.042452	1.046153	1.040166	1.041189
TITANIUM	334.941	Radial	848.4240	1.003711	1.011813	1.001412	0.9980800
VANADIUM	292.402	Radial	313.7283	1.013019	1.008513	1.011005	1.010787
ZINC	206.200	Axial	3115.642	1.014360	1.019797	1.018301	1.011584
CERIUM	535.353	Radial	29.05095	-0.003606221	-0.02357723	0.02289320	-0.005306953
HOT WATER SOL. BORON	249.678	Radial	58.04489	0.9928937	1.009464	0.9616527	0.9956962
LANTHANUM	333.749	Radial	-0.7418855	-0.007137732	-0.005733200	-0.006889512	-0.006571989

Sample ID: ICB-3 Units: mg/l
Analyzed: 03/13/25 08:40 Sequence: 11

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	13036.05	13036.29	13032.17	13039.70
YTTRIUM	360.073	Axial	200589.8	201100.9	200984.6	199683.8
YTTRIUM	360.073	Radial	3149.762	3160.529	3154.511	3134.246
INDIUM	230.606	Axial	5283.942	5284.125	5297.538	5270.164

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-0.8683543	-0.001791799	-0.004190870	0.03771148	-0.03889601
ANTIMONY	206.833	Axial	1.152579	-0.0006495563	-0.001409592	-0.0007710881	0.0002320115
ARSENIC	189.042	Axial	-0.3618703	-0.001875976	-0.0001137909	-0.004283185	-0.001230953
BARIUM	233.527	Axial	-1.31377	0.0002777608	-0.00002444126	0.0005001254	0.0003575983
BERYLLIUM	313.042	Radial	-0.6665556	-0.00002577432	-0.0001569427	0.0001117176	-0.00003209786
BORON	249.678	Radial	1.180359	-0.002321004	-0.01434031	0.01058424	-0.003206941
CADMIUM	228.802	Axial	-11.7667	-0.0001404255	-0.0003293551	0.00001283897	-0.0001047603
CALCIUM	317.933	Radial	146.2071	-0.001133260	-0.002258318	0.004815086	-0.005956548
CERIUM	535.353	Radial	26.12065	-0.02454982	-0.03563183	-0.01539077	-0.02262688
CHROMIUM	267.716	Axial	-6.96368	0.0002859605	0.0002331195	0.0003830854	0.0002416765
COBALT	228.616	Axial	-3.38448	0.0002125518	0.0004060699	0.0001149620	0.0001166234
COPPER	324.754	Axial	240.8778	0.0006694301	0.0004693470	0.001523332	0.00001561152
HOT WATER SOL. BORON	249.678	Radial	1.180359	-0.002321004	-0.01434031	0.01058424	-0.003206941
IRON	259.940	Radial	0.4304838	0.004189201	0.004558346	0.00008472742	0.007924528
LANTHANUM	333.749	Radial	-0.1203503	-0.005034861	0.004497995	-0.009450944	-0.01015164
LEAD	220.353	Axial	-0.08524974	-0.00003950751	-0.001595596	0.0006091664	0.0008679068
LITHIUM	670.784	Radial	-37.5076	-0.001752249	-0.001783923	0.0006857853	-0.004158609
MAGNESIUM	279.079	Radial	-1.54141	0.02195062	0.08342974	-0.02332536	0.005747473
MANGANESE	257.610	Axial	8.280988	0.0001964268	0.0002235409	0.0001326321	0.0002331072
MOLYBDENUM	202.030	Axial	-0.4140787	-0.0003518151	-0.0003943024	0.00001693575	-0.0006780788
NICKEL	231.604	Axial	8.466495	-0.0003415489	0.00006008369	-0.0003907875	-0.0006939429
PHOSPHORUS	177.495	Axial	-7.86354	0.01054576	0.01671684	0.008197330	0.006723113
POTASSIUM	766.490	Radial	-13.2339	-0.08646682	-0.1260832	-0.09248120	-0.04083605
SELENIUM	196.090	Axial	1.378527	0.001853984	0.004092405	0.003928475	-0.002458927
SILICON	251.611	Axial	5.717088	0.001042870	0.001945342	0.001457848	-0.0002745789
SILVER	328.068	Axial	7.091869	-0.0003094661	-0.0002694554	-0.0002696721	-0.0003892708
SODIUM	589.592	Radial	16.48336	-0.02266734	-0.01439187	-0.03149673	-0.02211343
STRONTIUM	421.552	Radial	2.860634	0.0001248591	0.00008160068	0.0004951031	-0.0002021265
SULFUR	182.034	Axial	5.139012	0.02304101	0.02819786	0.02359550	0.01732968
THALLIUM	190.856	Axial	-0.7539591	0.0005283896	0.0004136675	-0.001608483	0.002779984
TIN	189.989	Axial	0.3505117	0.001901635	0.002617705	0.001844359	0.001242841
TITANIUM	334.941	Radial	1.018349	-0.0009749103	-0.003911517	0.0004847309	0.0005020552
VANADIUM	292.402	Radial	-1.65310	-0.001369486	0.0006310190	0.001431624	-0.006171100
ZINC	206.200	Axial	10.97942	-0.00007416624	0.00003330808	-0.0003138271	0.00005802028

Sample ID: ICVLL-3 Units: mg/l
Analyzed: 03/13/25 08:49 Sequence: 14 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	13096.86	13083.60	13103.02	13103.97
YTTRIUM	360.073	Axial	202192.1	202339.2	202360.1	201877.0
YTTRIUM	360.073	Radial	3132.419	3119.434	3180.164	3097.660
INDIUM	230.606	Axial	5296.422	5284.647	5300.902	5303.716

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.634391	0.2401218	0.1965857	0.2522966	0.2714831
ANTIMONY	206.833	Axial	5.282759	0.009251990	0.008671915	0.008401240	0.01068282
ARSENIC	189.042	Axial	2.063580	0.008889146	0.009385614	0.006450591	0.01083123
BARIUM	233.527	Axial	24.05776	0.005644838	0.005592371	0.005719556	0.005622586
BERYLLIUM	313.042	Radial	30.24496	0.002206468	0.002125723	0.002322734	0.002170948
BORON	249.678	Radial	12.24796	0.1938191	0.1717212	0.1956140	0.2141222
CADMIUM	228.802	Axial	8.689179	0.001829411	0.001913473	0.001917107	0.001657655
CALCIUM	317.933	Radial	378.7239	1.030078	1.020108	1.017349	1.052777
CHROMIUM	267.716	Axial	106.5830	0.01058849	0.01055474	0.01010734	0.01110338
COBALT	228.616	Axial	51.62535	0.01006867	0.01016275	0.01004139	0.01000186
COPPER	324.754	Axial	406.1866	0.01079469	0.01049733	0.01099761	0.01088914
IRON	259.940	Radial	7.116869	0.1009020	0.1050548	0.09915358	0.09849777
LEAD	220.353	Axial	3.863969	0.004179442	0.004479804	0.003251117	0.004807405
LITHIUM	670.784	Radial	48.60301	0.01491192	0.01480676	0.01854364	0.01138534
MAGNESIUM	279.079	Radial	18.53858	0.9817920	0.9267479	0.9089088	1.109719
MANGANESE	257.610	Axial	626.6452	0.01073466	0.01073044	0.01076907	0.01070446
MOLYBDENUM	202.030	Axial	11.84320	0.005033607	0.005270205	0.005051574	0.004779043
NICKEL	231.604	Axial	35.26954	0.009905778	0.01024764	0.009518585	0.009951113
PHOSPHORUS	177.495	Axial	0.6390328	0.1008803	0.1038695	0.09023765	0.1085339
POTASSIUM	766.490	Radial	257.7626	0.9325962	0.9158620	0.9433590	0.9385675
SELENIUM	196.090	Axial	2.566643	0.008888173	0.009648949	0.004936182	0.01207939
SILICON	251.611	Axial	292.6280	0.1878348	0.1850434	0.1886030	0.1898581
SILVER	328.068	Axial	98.72179	0.005448745	0.005812572	0.005670287	0.004863378
SODIUM	589.592	Radial	831.6947	1.024584	1.013090	1.011196	1.049465
STRONTIUM	421.552	Radial	204.7899	0.01074292	0.01067982	0.01093860	0.01061033
SULFUR	182.034	Axial	93.21289	0.9355932	0.9332618	0.9386934	0.9348245
THALLIUM	190.856	Axial	1.172536	0.009403619	0.007488155	0.01187816	0.008844536
TIN	189.989	Axial	17.97845	0.05345582	0.05422079	0.04920325	0.05694343
TITANIUM	334.941	Radial	42.15038	0.04836797	0.04834992	0.04774562	0.04900838
VANADIUM	292.402	Radial	5.345565	0.02139211	0.01555887	0.02201164	0.02660583
ZINC	206.200	Axial	165.1999	0.04966270	0.05026454	0.04955746	0.04916610
CERIUM	535.353	Radial	35.66072	0.04877416	0.04407239	0.1125495	-0.01029937
HOT WATER SOL. BORON	249.678	Radial	12.24796	0.1938191	0.1717212	0.1956140	0.2141222
LANTHANUM	333.749	Radial	-0.1296080	-0.005137203	-0.007872117	0.005289969	-0.01282946

Sample ID: ICSA-3 Units: mg/l
Analyzed: 03/13/25 08:51 Sequence: 15 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11424.14	11417.77	11426.44	11428.23
YTTRIUM	360.073	Axial	172562.5	172195.8	172311.2	173180.6
YTTRIUM	360.073	Radial	2995.016	2999.861	2981.549	3003.638
INDIUM	230.606	Axial	4072.233	4064.071	4088.231	4064.396

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	18994.96	505.8717	503.2418	507.9700	506.4032
ANTIMONY	206.833	Axial	-0.7402695	-0.005466416	-0.004115112	-0.01297785	0.0006937146
ARSENIC	189.042	Axial	0.2762828	0.001139897	-0.005307020	0.007934933	0.0007917797
BARIUM	233.527	Axial	3.058111	0.001298291	0.001149107	0.001091777	0.001653991
BERYLLIUM	313.042	Radial	-1.94176	-0.0001245223	-0.0001222388	-0.00005992350	-0.0001914045
BORON	249.678	Radial	-0.2635538	-0.02798107	-0.03464673	-0.02079627	-0.02850022
CADMIUM	228.802	Axial	-7.60556	0.0001575114	0.0001634913	0.00007839545	0.0002306474
CALCIUM	373.690	Radial	93035.42	506.7891	504.0621	509.7281	506.5770
CERIUM	535.353	Radial	-9.20343	-0.2962953	-0.2442835	-0.3466041	-0.2979983
CHROMIUM	267.716	Axial	10.17371	0.002002688	0.001339162	0.002205611	0.002463290
COBALT	228.616	Axial	6.717626	0.002384894	0.002001121	0.002672543	0.002481017
COPPER	324.754	Axial	26.73698	-0.01243291	-0.01253587	-0.01238043	-0.01238242
HOT WATER SOL. BORON	249.678	Radial	-0.2635538	-0.02798107	-0.03464673	-0.02079627	-0.02850022
IRON	271.441	Radial	1720.406	199.9638	199.1848	200.6839	200.0227
LANTHANUM	333.749	Radial	-4.46468	-0.02067842	-0.02723908	-0.01402615	-0.02077004
LEAD	220.353	Axial	-6.81440	-0.009410243	-0.008078001	-0.01254418	-0.007608547
LITHIUM	670.784	Radial	61.14537	0.01792222	0.01762987	0.01664088	0.01949592
MAGNESIUM	279.079	Radial	10080.12	503.8172	500.2092	507.0783	504.1640
MANGANESE	257.610	Axial	51.32291	0.001078903	0.001101051	0.0009762406	0.001159419
MOLYBDENUM	202.030	Axial	1.434570	0.0005534776	0.0008703990	0.001450593	-0.0006605586
NICKEL	231.604	Axial	20.96323	0.006841724	0.007013407	0.007554153	0.005957611
PHOSPHORUS	177.495	Axial	-7.49814	0.003182705	-0.004396227	0.001719738	0.01222460
POTASSIUM	766.490	Radial	-102.800	-0.4415525	-0.4313480	-0.4378066	-0.4555030
SELENIUM	196.090	Axial	0.8713238	-0.0004478689	-0.01267070	0.01154760	-0.0002205037
SILICON	251.611	Axial	-19.4932	-0.01758200	-0.01924101	-0.01778046	-0.01572452
SILVER	328.068	Axial	-20.5842	-0.002276071	-0.002016789	-0.002916704	-0.001894721
SODIUM	589.592	Radial	77.88607	0.06090622	0.05580950	0.06321429	0.06369486
STRONTIUM	421.552	Radial	139.0020	0.007620480	0.007924798	0.007577098	0.007359545
SULFUR	182.034	Axial	-1.86713	-0.05265906	-0.07134452	-0.05181591	-0.03481675
THALLIUM	190.856	Axial	-1.13035	-0.002762727	-0.006678807	-0.004347236	0.002737860
TIN	189.989	Axial	-2.04440	-0.005983992	-0.007892422	-0.005517293	-0.004542262
TITANIUM	334.941	Radial	37.22710	0.04450543	0.04748250	0.04386462	0.04216918
VANADIUM	292.402	Radial	-10.5171	-0.03180261	-0.02484804	-0.03465642	-0.03590336
ZINC	206.200	Axial	26.40195	0.006131912	0.005946556	0.006716166	0.005733015

Sample ID: ICSAB-3 Units: mg/l
Analyzed: 03/13/25 08:54 Sequence: 16 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11502.77	11545.83	11435.67	11526.81
YTTRIUM	360.073	Axial	173428.0	173155.9	173005.2	174122.8
YTTRIUM	360.073	Radial	2998.364	3012.614	2990.868	2991.611
INDIUM	230.606	Axial	4074.628	4067.673	4063.401	4092.808

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	19317.30	513.8815	512.2004	515.9123	513.5317
ANTIMONY	206.833	Axial	183.7696	0.4988638	0.4957591	0.5020443	0.4987882
ARSENIC	189.042	Axial	99.89130	0.5041359	0.5084125	0.4953234	0.5086718
BARIUM	233.527	Axial	2162.331	0.5212525	0.5186750	0.5240582	0.5210243
BERYLLIUM	313.042	Radial	6708.906	0.5064272	0.5052109	0.5069202	0.5071504
BORON	249.678	Radial	55.57825	1.005182	0.9783684	0.9871558	1.050022
CADMIUM	228.802	Axial	9529.927	1.043064	1.043303	1.044820	1.041069
CALCIUM	373.690	Radial	94302.51	513.1140	512.1651	513.8736	513.3033
CERIUM	535.353	Radial	-12.5651	-0.3231339	-0.2290308	-0.4123281	-0.3280429
CHROMIUM	267.716	Axial	4738.855	0.5019434	0.5034417	0.5015882	0.5008005
COBALT	228.616	Axial	2145.832	0.5005004	0.5027249	0.5006688	0.4981073
COPPER	324.754	Axial	7404.202	0.5205022	0.5207663	0.5182776	0.5224628
HOT WATER SOL. BORON	249.678	Radial	55.57825	1.005182	0.9783684	0.9871558	1.050022
IRON	271.441	Radial	1744.002	202.4802	201.8952	203.0594	202.4860
LANTHANUM	333.749	Radial	-3.05875	-0.01562205	-0.01216375	-0.01439968	-0.02030273
LEAD	220.353	Axial	706.4164	0.9809731	0.9817483	0.9824508	0.9787201
LITHIUM	670.784	Radial	80.39843	0.02181825	0.02232693	0.01951830	0.02360951
MAGNESIUM	279.079	Radial	10291.55	513.8040	512.9760	514.8855	513.5505
MANGANESE	257.610	Axial	25091.94	0.4986530	0.5001263	0.4963525	0.4994802
MOLYBDENUM	202.030	Axial	990.8436	0.4954251	0.4948820	0.4968899	0.4945034
NICKEL	231.604	Axial	2016.737	0.9993433	1.003638	0.9981069	0.9962849
PHOSPHORUS	177.495	Axial	-7.04700	0.009277064	0.002757106	0.02178540	0.003288684
POTASSIUM	766.490	Radial	-83.4193	-0.3648836	-0.3896064	-0.3808659	-0.3241785
SELENIUM	196.090	Axial	75.86817	0.5078043	0.5170468	0.4978104	0.5085557
SILICON	251.611	Axial	1324.364	1.002642	1.010975	0.9895401	1.007411
SILVER	328.068	Axial	12431.11	0.9105994	0.9050758	0.9101047	0.9166178
SODIUM	589.592	Radial	115.1786	0.1108141	0.1146146	0.1174067	0.1004211
STRONTIUM	421.552	Radial	136.4839	0.007473202	0.007635653	0.007343894	0.007440058
SULFUR	182.034	Axial	-2.61285	-0.06128536	-0.06675879	-0.05630681	-0.06079049
THALLIUM	190.856	Axial	81.04766	0.4892122	0.4921745	0.4889794	0.4864828
TIN	189.989	Axial	143.8816	0.4800391	0.4747003	0.4858480	0.4795689
TITANIUM	334.941	Radial	435.9045	0.5440317	0.5414971	0.5456025	0.5449955
VANADIUM	292.402	Radial	134.8332	0.4623106	0.4630976	0.4625259	0.4613082
ZINC	206.200	Axial	2618.906	0.9583516	0.9587383	0.9632715	0.9530450

Sample ID: CCVLL-3 Units: mg/l
Analyzed: 03/13/25 13:44 Sequence: 110 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12864.26	12856.95	12877.99	12857.85
YTTRIUM	360.073	Axial	199409.7	199581.5	199530.2	199117.5
YTTRIUM	360.073	Radial	3144.704	3112.861	3153.123	3168.129
INDIUM	230.606	Axial	5268.559	5264.298	5282.160	5259.220

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.293853	0.2311156	0.3152651	0.2253234	0.1527584
ANTIMONY	206.833	Axial	5.581066	0.01021063	0.01200393	0.01034230	0.008285662
ARSENIC	189.042	Axial	1.944591	0.008516764	0.01099887	0.009384247	0.005167176
BARIUM	233.527	Axial	23.62702	0.005644199	0.005614571	0.005479524	0.005838503
BERYLLIUM	313.042	Radial	28.05088	0.002040600	0.001990836	0.002061384	0.002069580
BORON	249.678	Radial	12.72010	0.2012257	0.1921770	0.2099493	0.2015510
CADMIUM	228.802	Axial	8.022588	0.001779189	0.001667157	0.001946283	0.001724128
CALCIUM	317.933	Radial	378.4369	1.022166	1.029055	1.012086	1.025357
CHROMIUM	267.716	Axial	105.9414	0.01066390	0.01064106	0.01074937	0.01060128
COBALT	228.616	Axial	51.47367	0.01009024	0.01026744	0.009990936	0.01001233
COPPER	324.754	Axial	402.8733	0.01093747	0.01099901	0.01112966	0.01068372
IRON	259.940	Radial	7.672332	0.1085770	0.1228594	0.1078006	0.09507101
LEAD	220.353	Axial	4.700088	0.005099797	0.004988215	0.004569558	0.005741618
LITHIUM	670.784	Radial	56.85164	0.01649184	0.01465537	0.01619493	0.01862521
MAGNESIUM	279.079	Radial	18.37194	0.9701642	1.056694	0.9850957	0.8687029
MANGANESE	257.610	Axial	625.7702	0.01086865	0.01076742	0.01088933	0.01094921
MOLYBDENUM	202.030	Axial	11.46255	0.004957520	0.005256780	0.004573265	0.005042515
NICKEL	231.604	Axial	34.63643	0.009733115	0.009540346	0.009904221	0.009754777
PHOSPHORUS	177.495	Axial	0.6095026	0.1006865	0.1024850	0.09458664	0.1049878
POTASSIUM	766.490	Radial	247.4726	0.8904078	0.9024183	0.9120642	0.8567409
SELENIUM	196.090	Axial	2.379692	0.008029215	0.005710010	0.01155396	0.006823671
SILICON	251.611	Axial	294.3704	0.1916416	0.1918864	0.1923417	0.1906967
SILVER	328.068	Axial	87.89831	0.004845618	0.004967988	0.004828492	0.004740375
SODIUM	589.592	Radial	820.5716	1.006153	1.034489	0.9745318	1.009437
STRONTIUM	421.552	Radial	202.4015	0.01057674	0.01056281	0.01026513	0.01090227
SULFUR	182.034	Axial	93.05868	0.9514368	0.9510715	0.9477125	0.9555264
THALLIUM	190.856	Axial	1.682235	0.01179393	0.009612737	0.01227432	0.01349474
TIN	189.989	Axial	17.53464	0.05308398	0.05175631	0.05451921	0.05297641
TITANIUM	334.941	Radial	44.17782	0.05060049	0.05291503	0.05039119	0.04849526
VANADIUM	292.402	Radial	4.165478	0.01750840	0.02103929	0.01516506	0.01632084
ZINC	206.200	Axial	169.0726	0.05189786	0.05203135	0.05211528	0.05154695
CERIUM	535.353	Radial	33.95267	0.03529231	0.04495565	0.007751017	0.05317025
HOT WATER SOL. BORON	249.678	Radial	12.72010	0.2012257	0.1921770	0.2099493	0.2015510
LANTHANUM	333.749	Radial	1.351627	0.00001504667	-0.006723654	0.01373930	-0.006970503

Sample ID: ICSA-3 Units: mg/l
Analyzed: 03/13/25 14:13 Sequence: 111 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11266.72	11247.05	11277.51	11275.59
YTTRIUM	360.073	Axial	172074.0	170484.6	172526.4	173210.9
YTTRIUM	360.073	Radial	2968.063	2992.902	2964.948	2946.338
INDIUM	230.606	Axial	4042.633	4014.663	4061.558	4051.677

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	18752.34	503.9594	500.3587	504.3972	507.1222
ANTIMONY	206.833	Axial	-1.22928	-0.006862591	-0.01026728	-0.003142643	-0.007177851
ARSENIC	189.042	Axial	-0.1456812	-0.001014062	-0.0008424691	-0.002876402	0.0006766851
BARIUM	233.527	Axial	3.330560	0.001375353	0.0009660615	0.001192039	0.001967958
BERYLLIUM	313.042	Radial	-2.96713	-0.0002049214	-0.000003110136	-0.0003655226	-0.0002461315
BORON	249.678	Radial	0.08294113	-0.02147178	-0.03853167	-0.02311456	-0.002769103
CADMIUM	228.802	Axial	-7.66047	0.0001396263	0.00004877971	-0.0001996182	0.0005697174
CALCIUM	373.690	Radial	90997.98	500.2065	495.9413	500.9838	503.6942
CERIUM	535.353	Radial	-6.85079	-0.2781138	-0.2107976	-0.3522429	-0.2713010
CHROMIUM	267.716	Axial	10.90317	0.002084932	0.002175892	0.002117624	0.001961281
COBALT	228.616	Axial	6.690439	0.002392778	0.003017722	0.001992771	0.002167841
COPPER	324.754	Axial	8.072044	-0.01379134	-0.01494442	-0.01303646	-0.01339316
HOT WATER SOL. BORON	249.678	Radial	0.08294113	-0.02147178	-0.03853167	-0.02311456	-0.002769103
IRON	271.441	Radial	1691.008	198.3411	196.4537	197.8126	200.7570
LANTHANUM	333.749	Radial	-3.15998	-0.01611279	-0.01540252	-0.009149693	-0.02378615
LEAD	220.353	Axial	-4.58159	-0.006353931	-0.004060367	-0.006119944	-0.008881483
LITHIUM	670.784	Radial	56.06215	0.01700187	0.01602137	0.01664875	0.01833548
MAGNESIUM	279.079	Radial	9924.933	500.5858	495.7009	500.3411	505.7153
MANGANESE	257.610	Axial	54.61323	0.001148017	0.001160353	0.001232007	0.001051689
MOLYBDENUM	202.030	Axial	-0.6206064	-0.0004863827	-0.0008159361	0.0005673567	-0.001210569
NICKEL	231.604	Axial	19.62299	0.006242526	0.004825611	0.007294580	0.006607387
PHOSPHORUS	177.495	Axial	-6.84234	0.009978296	0.009418519	0.01239832	0.008118048
POTASSIUM	766.490	Radial	-117.023	-0.5016629	-0.5069077	-0.5099989	-0.4880823
SELENIUM	196.090	Axial	1.791325	0.006004459	0.005324253	-0.0008886638	0.01357779
SILICON	251.611	Axial	-11.4669	-0.01150176	-0.01487893	-0.01463188	-0.004994470
SILVER	328.068	Axial	-19.3146	-0.002184993	-0.001852340	-0.002761639	-0.001941000
SODIUM	589.592	Radial	61.15443	0.03917493	0.03505380	0.04911979	0.03335119
STRONTIUM	421.552	Radial	134.1063	0.007420278	0.006914396	0.007688875	0.007657564
SULFUR	182.034	Axial	-1.71271	-0.05110377	-0.05242170	-0.05706724	-0.04382238
THALLIUM	190.856	Axial	-1.58752	-0.005572646	-0.004650169	-0.003615148	-0.008452622
TIN	189.989	Axial	-1.48499	-0.004177408	-0.004440868	-0.005720565	-0.002370790
TITANIUM	334.941	Radial	37.10671	0.04478366	0.04507365	0.04108589	0.04819145
VANADIUM	292.402	Radial	-9.39590	-0.02825639	-0.03281868	-0.02488573	-0.02706477
ZINC	206.200	Axial	53.24388	0.01633470	0.01661704	0.01657474	0.01581231

Sample ID: ICSAB-3 Units: mg/l
Analyzed: 03/13/25 14:15 Sequence: 112 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11318.86	11329.27	11318.17	11309.14
YTTRIUM	360.073	Axial	171522.0	171757.3	172067.8	170741.0
YTTRIUM	360.073	Radial	2965.474	2964.117	2966.271	2966.034
INDIUM	230.606	Axial	4048.423	4053.838	4049.759	4041.672

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	19162.18	515.4046	516.0771	516.5275	513.6090
ANTIMONY	206.833	Axial	182.5467	0.5036153	0.5087265	0.5033470	0.4987724
ARSENIC	189.042	Axial	99.86538	0.5122236	0.5124007	0.5152303	0.5090399
BARIUM	233.527	Axial	2145.594	0.5256077	0.5264341	0.5255169	0.5248721
BERYLLIUM	313.042	Radial	6636.150	0.5064883	0.5071903	0.5067995	0.5054751
BORON	249.678	Radial	52.55395	0.9599478	0.9374000	0.9792162	0.9632272
CADMIUM	228.802	Axial	9412.297	1.046921	1.045031	1.046706	1.049026
CALCIUM	373.690	Radial	92689.43	509.9285	511.1058	509.9726	508.7071
CERIUM	535.353	Radial	2.837531	-0.1998629	-0.1018318	-0.2605812	-0.2371757
CHROMIUM	267.716	Axial	4542.425	0.4865180	0.4860692	0.4838700	0.4896148
COBALT	228.616	Axial	2121.098	0.4979320	0.4986697	0.4980437	0.4970826
COPPER	324.754	Axial	7335.800	0.5214505	0.5222847	0.5220934	0.5199734
HOT WATER SOL. BORON	249.678	Radial	52.55395	0.9599478	0.9374000	0.9792162	0.9632272
IRON	271.441	Radial	1707.906	200.4872	201.1326	200.7885	199.5405
LANTHANUM	333.749	Radial	-3.25645	-0.01645687	-0.02159224	-0.009643965	-0.01813441
LEAD	220.353	Axial	707.6800	0.9890836	0.9894507	0.9878848	0.9899152
LITHIUM	670.784	Radial	67.73959	0.01940241	0.01850210	0.02013751	0.01956761
MAGNESIUM	279.079	Radial	10135.95	511.6469	513.0936	512.3117	509.5354
MANGANESE	257.610	Axial	24706.18	0.4964458	0.4966401	0.4959179	0.4967796
MOLYBDENUM	202.030	Axial	973.7582	0.4947882	0.4962604	0.4946966	0.4934075
NICKEL	231.604	Axial	1985.881	0.9903870	0.9878758	0.9916291	0.9916561
PHOSPHORUS	177.495	Axial	-7.38599	0.003715680	0.001391084	-0.005099751	0.01485571
POTASSIUM	766.490	Radial	-100.776	-0.4375447	-0.4135470	-0.4659199	-0.4331671
SELENIUM	196.090	Axial	71.80393	0.4881932	0.4891122	0.4986031	0.4768644
SILICON	251.611	Axial	1282.258	0.9815008	0.9935116	0.9747798	0.9762109
SILVER	328.068	Axial	12470.01	0.9236359	0.9290279	0.9138869	0.9279929
SODIUM	589.592	Radial	114.4945	0.1116074	0.1079859	0.1222928	0.1045435
STRONTIUM	421.552	Radial	136.1353	0.007537417	0.007660168	0.007409605	0.007542477
SULFUR	182.034	Axial	-1.20651	-0.04493801	-0.04495362	-0.04325847	-0.04660193
THALLIUM	190.856	Axial	84.25566	0.5116879	0.4987620	0.5141771	0.5221247
TIN	189.989	Axial	140.8846	0.4776641	0.4765399	0.4774153	0.4790371
TITANIUM	334.941	Radial	431.4706	0.5444666	0.5466340	0.5460050	0.5407608
VANADIUM	292.402	Radial	131.9331	0.4574293	0.4607849	0.4540962	0.4574069
ZINC	206.200	Axial	2623.464	0.9756699	0.9768553	0.9754759	0.9746784

Sample ID: CCV Units: mg/l
Analyzed: 03/13/25 20:32 Sequence: 238 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12471.12	12532.73	12432.90	12447.74
YTTRIUM	360.073	Axial	189994.4	190040.3	189518.8	190424.2
YTTRIUM	360.073	Radial	3049.324	3079.629	3026.400	3041.944
INDIUM	230.606	Axial	4901.553	4911.353	4863.233	4930.073

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	383.1639	10.04234	10.06918	10.05524	10.00261
ANTIMONY	206.833	Axial	199.4893	0.4994890	0.4960356	0.4980328	0.5043988
ARSENIC	189.042	Axial	213.1990	0.9927326	0.9947307	0.9852749	0.9981923
BARIUM	233.527	Axial	2371.962	0.5273796	0.5242658	0.5263711	0.5315019
BERYLLIUM	313.042	Radial	2652.479	0.1968984	0.1957721	0.1986710	0.1962521
BORON	249.678	Radial	54.00048	0.9591360	0.9727541	0.9336348	0.9710191
CADMIUM	228.802	Axial	4948.485	0.5000791	0.5000168	0.4990742	0.5011464
CALCIUM	317.933	Radial	10750.28	48.15897	47.90628	48.60451	47.96613
CHROMIUM	267.716	Axial	10464.08	1.010778	1.001584	1.013460	1.017290
COBALT	228.616	Axial	4981.947	0.9652275	0.9684153	0.9716818	0.9555852
COPPER	324.754	Axial	15059.85	0.9786847	0.9720764	0.9776692	0.9863084
IRON	259.940	Radial	642.6197	9.543029	9.560166	9.575604	9.493316
LEAD	220.353	Axial	421.4668	0.4865571	0.4867537	0.4862512	0.4866664
LITHIUM	670.784	Radial	4956.213	0.9947356	0.9899925	1.001594	0.9926199
MAGNESIUM	279.079	Radial	194.2661	9.630816	9.501372	9.749548	9.641527
MANGANESE	257.610	Axial	55492.86	1.006599	0.9999566	1.007527	1.012312
MOLYBDENUM	202.030	Axial	553.5945	0.2552227	0.2545354	0.2526076	0.2585252
NICKEL	231.604	Axial	2328.003	0.9588347	0.9650319	0.9613011	0.9501709
PHOSPHORUS	177.495	Axial	80.82009	0.9919728	0.9954592	0.9929655	0.9874938
POTASSIUM	766.490	Radial	12737.30	49.19019	48.77834	49.63015	49.16208
SELENIUM	196.090	Axial	158.2386	0.9828674	0.9772387	0.9811765	0.9901870
SILICON	251.611	Axial	2858.529	1.978056	1.951059	1.980493	2.002617
SILVER	328.068	Axial	7766.412	0.5189755	0.5159044	0.5188202	0.5222019
SODIUM	589.592	Radial	38424.46	50.65229	50.32670	51.16283	50.46734
STRONTIUM	421.552	Radial	18382.29	0.9929548	0.9883974	1.002956	0.9875106
SULFUR	182.034	Axial	454.5240	4.916618	4.904166	4.885934	4.959755
THALLIUM	190.856	Axial	199.7281	0.9980380	0.9992030	1.010616	0.9842948
TIN	189.989	Axial	167.4720	0.5152798	0.5129620	0.5118587	0.5210187
TITANIUM	334.941	Radial	806.3619	0.9913689	0.9895601	0.9982537	0.9862929
VANADIUM	292.402	Radial	291.6144	0.9787024	0.9770763	0.9918653	0.9671654
ZINC	206.200	Axial	3017.593	1.018718	1.018802	1.020084	1.017268
CERIUM	535.353	Radial	46.44295	0.1413959	0.07435762	0.06880999	0.2810201
HOT WATER SOL. BORON	249.678	Radial	54.00048	0.9591360	0.9727541	0.9336348	0.9710191
LANTHANUM	333.749	Radial	1.061927	-0.0008995017	0.008698398	-0.008266578	-0.003130325

Sample ID: CCB Units: mg/l
Analyzed: 03/13/25 20:35 Sequence: 239

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12829.35	12804.17	12842.43	12841.44
YTTRIUM	360.073	Axial	198300.1	198587.1	197186.1	199127.1
YTTRIUM	360.073	Radial	3082.968	3119.295	3060.388	3069.220
INDIUM	230.606	Axial	5380.636	5358.161	5388.493	5395.254

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-0.9070544	-0.003317162	0.01470237	-0.03289398	0.008240124
ANTIMONY	206.833	Axial	1.688071	0.0007073280	0.0003761613	-0.001300869	0.003046692
ARSENIC	189.042	Axial	-0.2401433	-0.001350610	-0.001433749	-0.0008692374	-0.001748843
BARIUM	233.527	Axial	-2.12039	0.00009901511	0.00002371409	0.0004276211	-0.0001542898
BERYLLIUM	313.042	Radial	2.388491	0.0001969213	0.0002517720	0.00001588869	0.0003231032
BORON	249.678	Radial	1.083153	-0.003576498	-0.01126091	0.004069520	-0.003538108
CADMIUM	228.802	Axial	-13.3959	-0.0003184146	-0.0002781836	-0.0003581095	-0.0003189508
CALCIUM	317.933	Radial	144.4389	0.004842580	0.007452916	0.003278264	0.003796561
CERIUM	535.353	Radial	30.93929	0.01798756	-0.1282751	0.1318537	0.05038414
CHROMIUM	267.716	Axial	-4.15712	0.0005380922	0.0007000889	0.0004586612	0.0004555264
COBALT	228.616	Axial	-2.99614	0.0002925075	0.0005325259	0.0002942052	0.00005079144
COPPER	324.754	Axial	240.4283	0.0008175921	0.0006816241	0.001307146	0.0004640056
HOT WATER SOL. BORON	249.678	Radial	1.083153	-0.003576498	-0.01126091	0.004069520	-0.003538108
IRON	259.940	Radial	0.7151586	0.008522616	0.003435346	0.005698058	0.01643444
LANTHANUM	333.749	Radial	2.619934	0.004565862	0.003945763	0.001955879	0.007795944
LEAD	220.353	Axial	-0.8118054	-0.0008022683	-0.0009113641	-0.0005598629	-0.0009355779
LITHIUM	670.784	Radial	-42.6734	-0.002916308	-0.004326830	-0.002950166	-0.001471929
MAGNESIUM	279.079	Radial	-0.8887408	0.05220589	0.03530104	0.04433340	0.07698324
MANGANESE	257.610	Axial	22.79266	0.0004501175	0.0004585752	0.0004261155	0.0004656618
MOLYBDENUM	202.030	Axial	0.07393113	-0.0001362643	-0.0004285744	-0.00002004972	0.00003983136
NICKEL	231.604	Axial	9.487124	-0.00001571518	-0.0002717574	0.0003132847	-0.00008867285
PHOSPHORUS	177.495	Axial	-8.63200	0.0008998041	0.0002078744	-0.003849825	0.006341363
POTASSIUM	766.490	Radial	82.19463	0.2772043	0.2591265	0.2758966	0.2965900
SELENIUM	196.090	Axial	1.129395	0.0004707467	-0.001069098	0.0003339068	0.002147431
SILICON	251.611	Axial	4.614888	0.0003586880	0.001005627	0.0005569557	-0.0004865190
SILVER	328.068	Axial	9.259991	-0.0001642513	-0.0005209885	0.0001888530	-0.0001606185
SODIUM	589.592	Radial	936.5522	1.178220	1.213279	1.185558	1.135824
STRONTIUM	421.552	Radial	12.42386	0.0006394942	0.0006710842	0.0005962725	0.0006511257
SULFUR	182.034	Axial	10.11253	0.07652763	0.08100239	0.07458001	0.07400048
THALLIUM	190.856	Axial	-0.8471548	0.0001640756	-0.0004738390	0.002307819	-0.001341753
TIN	189.989	Axial	-0.8066311	-0.001534584	0.0007783287	-0.002085584	-0.003296498
TITANIUM	334.941	Radial	1.222019	-0.0006910149	-0.002997540	0.001317259	-0.0003927645
VANADIUM	292.402	Radial	-1.27752	-0.0001808971	-0.008941542	0.003854111	0.004544740
ZINC	206.200	Axial	1.090498	-0.003273502	-0.003189545	-0.003138128	-0.003492831

Sample ID: BLANK DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 20:38 Sequence: 240

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12784.39	12781.54	12786.44	12785.18
YTTRIUM	360.073	Axial	198460.5	198723.0	197780.6	198878.0
YTTRIUM	360.073	Radial	3094.719	3077.617	3098.826	3107.714
INDIUM	230.606	Axial	5311.999	5317.544	5317.598	5300.854

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.5754537	-0.002878283	-0.006184654	0.001461815	-0.003912009
BARIUM	233.527	Axial	-1.21674	0.0002932900	0.0005123610	0.0003574905	0.00001001846
BORON	249.678	Radial	2.832861	0.02761894	0.01893507	0.01044405	0.05347770
CADMIUM	228.802	Axial	-13.2366	-0.0003073977	-0.0002605086	-0.0004844395	-0.0001772451
CALCIUM	317.933	Radial	143.8649	-0.0001580986	0.003778909	0.0007122548	-0.004965459
CHROMIUM	267.716	Axial	1.381782	0.001049726	0.001881003	0.0006450703	0.0006231043
COBALT	228.616	Axial	-1.77035	0.0005041277	0.0003522290	0.0006043603	0.0005557937
LEAD	220.353	Axial	0.3805666	0.0004586741	-0.001430994	0.0006325249	0.002174491
LITHIUM	670.784	Radial	-31.7586	-0.0007469885	-0.001337569	-0.0004071143	-0.0004962820
MAGNESIUM	279.079	Radial	-1.05538	0.04422740	0.01625576	0.1395313	-0.02310489
SELENIUM	196.090	Axial	1.118691	0.0004307841	-0.002850564	0.0005387833	0.003604134
SILVER	328.068	Axial	7.117023	-0.0003044441	0.0002547673	-0.001247535	0.00007943569
SODIUM	589.592	Radial	1216.006	1.536776	1.448238	1.559932	1.602157
ALUMINUM	308.215	Radial	1.715787	0.06462115	0.1120981	0.03527678	0.04648857
ANTIMONY	206.833	Axial	1.532580	0.0003398566	0.001922523	0.002028226	-0.002931179
BERYLLIUM	313.042	Radial	0.4721435	0.00005681266	0.0001139580	0.0001072437	-0.00005076366
COPPER	324.754	Axial	266.2592	0.002434535	0.002193644	0.002487084	0.002622876
IRON	259.940	Radial	2.423207	0.03346500	0.03845564	0.02600066	0.03593870
MANGANESE	257.610	Axial	22.80348	0.0004502151	0.0004301982	0.0005394589	0.0003809881
MOLYBDENUM	202.030	Axial	-0.1406502	-0.0002324508	-0.0003290719	0.0001402871	-0.0005085674
NICKEL	231.604	Axial	11.08574	0.0006400725	0.001314550	0.0005732769	0.00003239105
PHOSPHORUS	177.495	Axial	-9.22505	-0.005855034	-0.01055790	-0.0005480893	-0.006459115
POTASSIUM	766.490	Radial	114.5642	0.3990315	0.3480018	0.4209359	0.4281567
SILICON	251.611	Axial	45.95243	0.02778076	0.02614607	0.02988343	0.02731280
STRONTIUM	421.552	Radial	3.656798	0.0001710843	0.0003490284	0.0001073244	0.00005690010
SULFUR	182.034	Axial	13.20047	0.1096852	0.1117407	0.1174157	0.09989931
THALLIUM	190.856	Axial	-0.9962192	-0.0005734218	0.001587836	0.001004151	-0.004312252
TIN	189.989	Axial	0.1140034	0.001213102	0.0004422408	0.002129276	0.001067788
TITANIUM	334.941	Radial	2.768057	0.001163882	0.0001787145	0.002384924	0.0009280059
VANADIUM	292.402	Radial	-3.12503	-0.006278077	-0.0009774104	-0.0006699048	-0.01718692
ZINC	206.200	Axial	12.69930	0.0005643256	0.0005254741	0.0006941459	0.0004733566
CERIUM	535.353	Radial	33.89713	0.03917467	0.1052821	-0.02130328	0.03354524
LANTHANUM	333.749	Radial	1.629358	0.001093277	0.006203986	0.001777775	-0.004701931

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 20:41 Sequence: 241

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12644.90	12628.57	12649.07	12657.06
YTTRIUM	360.073	Axial	193946.0	194473.4	193392.4	193972.1
YTTRIUM	360.073	Radial	3071.915	3031.912	3102.704	3081.128
INDIUM	230.606	Axial	5110.594	5095.870	5115.158	5120.755

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	216.2660	0.9931818	0.9953803	0.9844843	0.9996807
BARIUM	233.527	Axial	4769.805	1.045379	1.046518	1.045299	1.044320
BORON	249.678	Radial	53.95117	0.9513942	0.9805809	0.9012531	0.9723487
CADMIUM	228.802	Axial	9855.993	0.9813711	0.9825298	0.9815375	0.9800460
CALCIUM	317.933	Radial	2351.791	9.954382	10.04775	9.905216	9.910183
CHROMIUM	267.716	Axial	10788.06	1.020842	1.011486	1.021454	1.029586
COBALT	228.616	Axial	5106.194	0.9488184	0.9512712	0.9478035	0.9473804
LEAD	220.353	Axial	869.2397	0.9623860	0.9601281	0.9649711	0.9620590
LITHIUM	670.784	Radial	5058.335	1.007720	1.016836	1.003707	1.002618
MAGNESIUM	279.079	Radial	193.1817	9.508699	9.740333	9.366024	9.419740
SELENIUM	196.090	Axial	156.9192	0.9611251	0.9636367	0.9538260	0.9659126
SILVER	328.068	Axial	3106.351	0.2028867	0.2018304	0.2025818	0.2042478
SODIUM	589.592	Radial	8747.378	11.41241	11.48031	11.35948	11.39744
ALUMINUM	308.215	Radial	392.6162	10.21447	10.25206	10.16503	10.22630
ANTIMONY	206.833	Axial	397.1158	0.9839370	0.9818159	0.9847723	0.9852229
BERYLLIUM	313.042	Radial	13427.37	0.9893355	0.9970044	0.9837507	0.9872513
COPPER	324.754	Axial	15443.38	0.9832377	0.9790393	0.9850841	0.9855896
IRON	259.940	Radial	659.4368	9.720640	9.688260	9.716322	9.757338
MANGANESE	257.610	Axial	57897.61	1.028827	1.023444	1.028016	1.035020
MOLYBDENUM	202.030	Axial	2314.900	1.053095	1.055950	1.050551	1.052784
NICKEL	231.604	Axial	2419.018	0.9555435	0.9603810	0.9533747	0.9528749
PHOSPHORUS	177.495	Axial	80.96340	0.9812029	0.9733451	0.9698581	1.000406
POTASSIUM	766.490	Radial	2702.374	10.33011	10.39453	10.33113	10.26467
SILICON	251.611	Axial	1354.757	0.9169165	0.9178286	0.9077999	0.9251211
STRONTIUM	421.552	Radial	18797.36	1.007932	1.017339	1.004189	1.002269
SULFUR	182.034	Axial	883.9336	9.458102	9.465176	9.405264	9.503865
THALLIUM	190.856	Axial	210.0945	1.006800	1.008776	0.9925499	1.019074
TIN	189.989	Axial	347.8153	1.054535	1.056874	1.055288	1.051443
TITANIUM	334.941	Radial	825.5220	1.007445	1.003684	1.012818	1.005832
VANADIUM	292.402	Radial	294.9945	0.9828045	0.9964312	0.9777386	0.9742436
ZINC	206.200	Axial	3016.695	1.004368	1.005171	1.005423	1.002511
CERIUM	535.353	Radial	37.40587	0.06841640	0.05941938	-0.01931117	0.1651410
LANTHANUM	333.749	Radial	1.614328	0.001084312	0.006430842	0.005216131	-0.008394037

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835075-03 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 20:43 Sequence: 242

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12484.10	12485.37	12475.69	12491.24
YTTRIUM	360.073	Axial	190554.1	189661.6	190323.6	191677.1
YTTRIUM	360.073	Radial	3104.699	3097.132	3108.452	3108.513
INDIUM	230.606	Axial	4700.490	4734.878	4673.111	4693.481

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	7.460366	0.03444968	0.03307947	0.03828121	0.03198837
BARIUM	233.527	Axial	14225.11	3.156691	3.161655	3.158439	3.149978
BORON	249.678	Radial	1.954333	0.01177207	-0.01416667	0.03621216	0.01327072
CADMIUM	228.802	Axial	3.888454	0.001386665	0.001297054	0.001464697	0.001398243
CALCIUM	373.690	Radial	25348.65	133.1842	132.4935	133.4520	133.6072
CHROMIUM	267.716	Axial	1351.016	0.1309233	0.1314969	0.1305366	0.1307364
COBALT	228.616	Axial	273.2645	0.05598006	0.05575548	0.05574290	0.05644182
LEAD	220.353	Axial	109.8586	0.1322873	0.1321716	0.1318568	0.1328334
LITHIUM	670.784	Radial	471.2139	0.09787164	0.09773297	0.09725348	0.09862848
MAGNESIUM	279.079	Radial	1262.661	60.96290	61.02481	60.81198	61.05190
SELENIUM	196.090	Axial	0.6587855	-0.002277814	-0.006962868	-0.002551963	0.002681388
SILVER	328.068	Axial	5.548496	-0.0003895285	-0.0005086400	-0.0006076451	-0.00005230034
SODIUM	589.592	Radial	6857.082	8.841458	8.764995	8.863265	8.896114
ALUMINUM	308.215	Radial	2599.049	66.78962	67.03268	66.68219	66.65400
ANTIMONY	206.833	Axial	1.500887	0.0003508513	0.002516267	0.0001331426	-0.001596855
BERYLLIUM	313.042	Radial	56.85138	0.004166435	0.004244700	0.004427374	0.003827232
COPPER	324.754	Axial	2101.526	0.1237971	0.1237543	0.1242747	0.1233624
IRON	271.441	Radial	1278.881	143.3863	143.5081	143.0731	143.5777
MANGANESE	257.610	Axial	137880.7	2.493670	2.502890	2.495599	2.482522
MOLYBDENUM	202.030	Axial	16.96786	0.007650581	0.007146550	0.007887163	0.007918028
NICKEL	231.604	Axial	300.0573	0.1257618	0.1261943	0.1261553	0.1249359
PHOSPHORUS	177.495	Axial	382.3390	4.337254	4.366096	4.323742	4.321923
POTASSIUM	766.490	Radial	3020.849	11.42910	11.40427	11.44558	11.43746
SILICON	251.611	Axial	18071.19	12.48286	12.54698	12.45821	12.44339
STRONTIUM	421.552	Radial	15986.88	0.8481202	0.8434668	0.8503500	0.8505439
SULFUR	182.034	Axial	1864.547	20.24228	20.41691	20.15566	20.15428
THALLIUM	190.856	Axial	-0.6858319	0.0004298002	0.004219754	-0.003157517	0.0002271639
TIN	189.989	Axial	-0.1555665	0.0003951723	-0.0005695019	0.002917665	-0.001162646
TITANIUM	334.941	Radial	451.9199	0.5446974	0.5433189	0.5433523	0.5474209
VANADIUM	292.402	Radial	36.17599	0.1227504	0.1246883	0.1256599	0.1179029
ZINC	206.200	Axial	1589.168	0.5342124	0.5386894	0.5320427	0.5319052
CERIUM	535.353	Radial	35.79149	0.05275465	0.04934853	0.01750955	0.09140588
LANTHANUM	333.749	Radial	31.03321	0.1032527	0.09809480	0.1020540	0.1096092

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1835075-03 Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 20:46 Sequence: 243

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12777.42	12749.99	12772.83	12809.43
YTTRIUM	360.073	Axial	195966.1	195642.9	195981.5	196273.9
YTTRIUM	360.073	Radial	3082.027	3063.369	3094.783	3087.930
INDIUM	230.606	Axial	5136.343	5095.605	5112.365	5201.059

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.690235	0.007417806	0.02123239	0.04853801	0.04149670
BARIUM	233.527	Axial	3364.733	0.7299492	3.640873	3.636809	3.671557
BORON	249.678	Radial	2.040132	0.01361462	0.08433750	0.05958561	0.06029611
CADMIUM	228.802	Axial	-12.4763	-0.0002332326	-0.001181653	-0.0009174632	-0.001399374
CALCIUM	317.933	Radial	6330.920	27.7920	140.6903	135.5857	140.6039
CHROMIUM	267.716	Axial	280.3307	0.02715180	0.1350057	0.1347243	0.1375470
COBALT	228.616	Axial	53.82340	0.01076175	0.05249759	0.05443910	0.05448963
LEAD	220.353	Axial	22.38762	0.02470930	0.1179900	0.1272211	0.1254282
LITHIUM	670.784	Radial	68.61851	0.01905586	0.1030676	0.08658518	0.09618522
MAGNESIUM	279.079	Radial	254.3440	12.44643	62.36067	61.90198	62.43382
SELENIUM	196.090	Axial	1.043534	-0.00001643922	0.02046395	0.004938643	-0.02564918
SILVER	328.068	Axial	-3.90384	-0.001012535	-0.008051589	-0.002979158	-0.004157282
SODIUM	589.592	Radial	1924.384	2.468208	12.35982	12.38018	12.28312
ALUMINUM	308.215	Radial	509.2961	13.20015	65.86054	66.07469	66.06702
ANTIMONY	206.833	Axial	1.448575	0.0001351403	0.001948763	-0.001267948	0.001346290
BERYLLIUM	313.042	Radial	13.18361	0.0009904368	0.005558020	0.005279985	0.004018546
COPPER	324.754	Axial	603.7172	0.02422326	0.1236687	0.1208369	0.1188432
IRON	271.441	Radial	257.6582	29.08222	145.8514	146.7717	143.6101
MANGANESE	257.610	Axial	28313.86	0.4979708	2.491750	2.491634	2.486177
MOLYBDENUM	202.030	Axial	1.406812	0.0004643412	0.0009587057	0.004657214	0.001349198
NICKEL	231.604	Axial	70.50288	0.02422100	0.1227626	0.1150242	0.1255282
PHOSPHORUS	177.495	Axial	68.42800	0.8360934	4.195730	4.180236	4.165437
POTASSIUM	766.490	Radial	640.7910	2.412944	11.85180	12.08468	12.25766
SILICON	251.611	Axial	3813.483	2.559258	12.74927	12.79961	12.83998
STRONTIUM	421.552	Radial	3290.708	0.1758413	0.8786638	0.8800444	0.8789111
SULFUR	182.034	Axial	373.8254	3.940682	19.60008	19.57790	19.93226
THALLIUM	190.856	Axial	-1.17539	-0.001572591	-0.00009658540	-0.01338411	-0.01010817
TIN	189.989	Axial	-0.3954824	-0.0003104408	0.005723580	0.005389479	-0.01576967
TITANIUM	334.941	Radial	91.16950	0.1089425	0.5379567	0.5456943	0.5504868
VANADIUM	292.402	Radial	5.157740	0.02103180	0.08481259	0.1367303	0.09393420
ZINC	206.200	Axial	333.4155	0.1066201	0.5366364	0.5301942	0.5324705
CERIUM	535.353	Radial	24.51944	-0.03270138	-0.2589886	0.03264301	-0.2641752
LANTHANUM	333.749	Radial	6.855665	0.01940505	0.1100290	0.09973752	0.08130929

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1835075-03 Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 20:49 Sequence: 244

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12407.41	12392.65	12403.13	12426.46
YTTRIUM	360.073	Axial	188557.7	187922.7	188563.3	189187.1
YTTRIUM	360.073	Radial	3084.348	3074.758	3103.955	3074.330
INDIUM	230.606	Axial	4638.250	4635.239	4637.118	4642.395

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	225.4574	1.055223	1.051879	1.053118	1.060673
BARIUM	233.527	Axial	18347.46	4.096485	4.105241	4.095810	4.088403
BORON	249.678	Radial	54.97010	0.9655544	0.9593994	0.9546186	0.9826451
CADMIUM	228.802	Axial	9889.797	1.003563	1.005021	1.003270	1.002400
CALCIUM	373.690	Radial	26566.06	140.5038	139.5493	140.4952	141.4669
CHROMIUM	267.716	Axial	11795.40	1.147936	1.149419	1.145952	1.148438
COBALT	228.616	Axial	5115.802	1.047321	1.046515	1.048772	1.046676
LEAD	220.353	Axial	926.5577	1.130310	1.133163	1.129597	1.128172
LITHIUM	670.784	Radial	5715.122	1.133205	1.123672	1.138329	1.137615
MAGNESIUM	279.079	Radial	1400.677	68.06154	67.51273	68.06615	68.60576
SELENIUM	196.090	Axial	158.5410	0.9898404	1.001656	0.9816568	0.9862082
SILVER	328.068	Axial	3121.061	0.2096986	0.2098278	0.2105927	0.2086754
SODIUM	589.592	Radial	14228.38	18.51472	18.32240	18.53719	18.68455
ALUMINUM	308.215	Radial	2897.141	74.93907	75.22020	74.71152	74.88548
ANTIMONY	206.833	Axial	397.9262	1.004893	1.007394	1.004698	1.002588
BERYLLIUM	313.042	Radial	13708.58	1.005923	1.001767	1.007609	1.008394
COPPER	324.754	Axial	17346.93	1.138222	1.138898	1.140000	1.135770
IRON	271.441	Radial	1318.085	148.7583	147.7042	148.5544	150.0163
MANGANESE	257.610	Axial	189439.3	3.462366	3.469155	3.465053	3.452890
MOLYBDENUM	202.030	Axial	2242.844	1.039845	1.041313	1.043582	1.034640
NICKEL	231.604	Axial	2557.468	1.113695	1.114006	1.112865	1.114214
PHOSPHORUS	177.495	Axial	460.9303	5.241083	5.243877	5.267499	5.211872
POTASSIUM	766.490	Radial	5511.914	21.02266	20.91877	20.96916	21.18006
SILICON	251.611	Axial	17115.97	11.94805	11.99686	11.95761	11.88969
STRONTIUM	421.552	Radial	34743.44	1.855377	1.844587	1.855455	1.866090
SULFUR	182.034	Axial	2709.021	29.60614	29.63114	29.63034	29.55695
THALLIUM	190.856	Axial	194.4640	1.026717	1.020174	1.029274	1.030704
TIN	189.989	Axial	330.5587	1.021426	1.021165	1.024936	1.018177
TITANIUM	334.941	Radial	1250.124	1.520628	1.517893	1.521925	1.522066
VANADIUM	292.402	Radial	330.9535	1.097581	1.089000	1.102949	1.100794
ZINC	206.200	Axial	4396.832	1.493651	1.496860	1.492693	1.491400
CERIUM	535.353	Radial	42.21793	0.1041381	0.05340969	0.1779848	0.08101995
LANTHANUM	333.749	Radial	33.44626	0.1123725	0.09838387	0.1252827	0.1134510

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1835075-03 Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 20:51 Sequence: 245

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12478.83	12479.66	12482.66	12474.18
YTTRIUM	360.073	Axial	189283.8	188900.8	189311.0	189639.5
YTTRIUM	360.073	Radial	3108.226	3112.302	3090.870	3121.508
INDIUM	230.606	Axial	4689.313	4687.240	4697.446	4683.254

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	203.9243	0.9489563	0.9484416	0.9456184	0.9528088
BARIUM	233.527	Axial	23811.88	5.285940	5.288993	5.288471	5.280358
BORON	249.678	Radial	48.86670	0.8490442	0.8630214	0.8588508	0.8252604
CADMIUM	228.802	Axial	9121.191	0.9203537	0.9207590	0.9207396	0.9195625
CALCIUM	373.690	Radial	26484.03	138.9944	138.8373	139.2771	138.8686
CHROMIUM	267.716	Axial	10856.43	1.052579	1.055069	1.048746	1.053922
COBALT	228.616	Axial	4728.743	0.9576119	0.9590345	0.9550624	0.9587389
LEAD	220.353	Axial	861.4170	1.039405	1.036455	1.040816	1.040943
LITHIUM	670.784	Radial	5223.012	1.028200	1.026127	1.028843	1.029629
MAGNESIUM	279.079	Radial	1202.362	57.98965	57.85643	57.83554	58.27696
SELENIUM	196.090	Axial	145.6919	0.9038567	0.9061355	0.8976681	0.9077663
SILVER	328.068	Axial	2882.865	0.1928885	0.1918940	0.1926270	0.1941444
SODIUM	589.592	Radial	14362.72	18.54603	18.47993	18.55104	18.60713
ALUMINUM	308.215	Radial	2786.172	71.51448	71.58970	71.25605	71.69769
ANTIMONY	206.833	Axial	300.4969	0.7536531	0.7523262	0.7558959	0.7527371
BERYLLIUM	313.042	Radial	12630.04	0.9196753	0.9144738	0.9235913	0.9209608
COPPER	324.754	Axial	16026.83	1.046416	1.045733	1.037827	1.055689
IRON	271.441	Radial	1198.564	134.2241	135.0492	133.0618	134.5612
MANGANESE	257.610	Axial	176722.4	3.217532	3.223289	3.196552	3.232755
MOLYBDENUM	202.030	Axial	2000.259	0.9220454	0.9229303	0.9233919	0.9198139
NICKEL	231.604	Axial	2373.056	1.021844	1.025490	1.019276	1.020765
PHOSPHORUS	177.495	Axial	416.0270	4.713067	4.704488	4.720800	4.713913
POTASSIUM	766.490	Radial	5194.226	19.65592	19.56734	19.59219	19.80824
SILICON	251.611	Axial	22025.51	15.31680	15.32581	15.19595	15.42864
STRONTIUM	421.552	Radial	33009.18	1.749228	1.744005	1.753089	1.750589
SULFUR	182.034	Axial	2708.569	29.43157	29.41918	29.49069	29.38483
THALLIUM	190.856	Axial	170.6410	0.8916705	0.9020202	0.8775050	0.8954865
TIN	189.989	Axial	305.0806	0.9373731	0.9430380	0.9347332	0.9343480
TITANIUM	334.941	Radial	1118.353	1.349630	1.350248	1.343067	1.355576
VANADIUM	292.402	Radial	309.1460	1.017652	1.020934	1.005336	1.026685
ZINC	206.200	Axial	3980.174	1.344004	1.341807	1.343906	1.346300
CERIUM	535.353	Radial	45.22785	0.1250980	0.02729894	0.1836093	0.1643858
LANTHANUM	333.749	Radial	33.66706	0.1122843	0.1215509	0.1105517	0.1047502

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1835075-03 Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 20:54 Sequence: 246

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12382.18	12381.89	12376.73	12387.91
YTTRIUM	360.073	Axial	188965.2	189384.3	188379.5	189131.9
YTTRIUM	360.073	Radial	3067.494	3063.082	3081.385	3058.016
INDIUM	230.606	Axial	4658.731	4644.464	4682.472	4649.256

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	210.1129	0.9853951	0.9878776	0.9809046	0.9874031
BARIUM	233.527	Axial	20942.22	4.685266	4.699407	4.680022	4.676368
BORON	249.678	Radial	51.86048	0.9147381	0.9493704	0.8990385	0.8958055
CADMIUM	228.802	Axial	9384.699	0.9542977	0.9564804	0.9536901	0.9527226
CALCIUM	373.690	Radial	29882.33	158.9157	158.7653	158.3126	159.6692
CHROMIUM	267.716	Axial	11016.18	1.069856	1.067225	1.072248	1.070094
COBALT	228.616	Axial	4830.406	0.9846070	0.9884973	0.9804284	0.9848953
LEAD	220.353	Axial	880.8650	1.069838	1.068069	1.073721	1.067723
LITHIUM	670.784	Radial	5351.081	1.067196	1.066100	1.064935	1.070551
MAGNESIUM	279.079	Radial	1088.798	53.21889	53.29168	52.93583	53.42916
SELENIUM	196.090	Axial	148.0050	0.9255277	0.9240829	0.9348460	0.9176540
SILVER	328.068	Axial	2984.505	0.2000547	0.1993855	0.1994428	0.2013360
SODIUM	589.592	Radial	14184.05	18.55876	18.49452	18.51246	18.66929
ALUMINUM	308.215	Radial	2531.346	65.83923	65.26401	65.78677	66.46691
ANTIMONY	206.833	Axial	323.0212	0.8167560	0.8186178	0.8206807	0.8109694
BERYLLIUM	313.042	Radial	12972.79	0.9571693	0.9556502	0.9568089	0.9590489
COPPER	324.754	Axial	16631.49	1.088297	1.087292	1.085972	1.091627
IRON	271.441	Radial	1110.399	126.0035	125.5901	126.0210	126.3995
MANGANESE	257.610	Axial	177487.9	3.236928	3.229729	3.238914	3.242140
MOLYBDENUM	202.030	Axial	2076.283	0.9645696	0.9640014	0.9663072	0.9634002
NICKEL	231.604	Axial	2406.137	1.042979	1.049262	1.036967	1.042707
PHOSPHORUS	177.495	Axial	385.9451	4.412530	4.403698	4.414738	4.419153
POTASSIUM	766.490	Radial	4845.287	18.57737	18.48552	18.52608	18.72052
SILICON	251.611	Axial	19915.50	13.87263	13.86088	13.87891	13.87812
STRONTIUM	421.552	Radial	32434.47	1.741603	1.737692	1.736377	1.750740
SULFUR	182.034	Axial	2761.743	30.24447	30.22068	30.27664	30.23610
THALLIUM	190.856	Axial	177.9051	0.9355475	0.9534006	0.9270454	0.9261964
TIN	189.989	Axial	314.9026	0.9750701	0.9720709	0.9795758	0.9735636
TITANIUM	334.941	Radial	1065.843	1.303279	1.300406	1.306624	1.302807
VANADIUM	292.402	Radial	315.5563	1.052458	1.052850	1.048600	1.055924
ZINC	206.200	Axial	4007.971	1.364010	1.367949	1.366698	1.357384
CERIUM	535.353	Radial	27.15171	-0.01136819	-0.04983145	0.05825924	-0.04253238
LANTHANUM	333.749	Radial	34.85983	0.1180591	0.1197552	0.1058491	0.1285729

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834664-01 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 20:56 Sequence: 247

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12287.81	12294.23	12290.86	12278.34
YTTRIUM	360.073	Axial	190083.8	190863.6	190085.8	189301.9
YTTRIUM	360.073	Radial	3155.114	3143.703	3191.714	3129.925
INDIUM	230.606	Axial	4564.055	4580.171	4558.140	4553.853

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	7.126802	0.03342695	0.02981510	0.03525058	0.03521516
BARIUM	233.527	Axial	5895.189	1.329418	1.332578	1.329798	1.325878
BORON	249.678	Radial	2.608577	0.02266652	0.03416607	0.03262750	0.001205983
CADMIUM	228.802	Axial	35.68745	0.004647853	0.004728270	0.004595567	0.004619723
CHROMIUM	267.716	Axial	787.5952	0.07689799	0.07589902	0.07694936	0.07784560
COBALT	228.616	Axial	314.4266	0.06618671	0.06562622	0.06658894	0.06634496
LEAD	220.353	Axial	281.3460	0.3488269	0.3499403	0.3505618	0.3459785
LITHIUM	670.784	Radial	142.2524	0.03293763	0.03259641	0.03341832	0.03279817
SELENIUM	196.090	Axial	2.967300	0.01243439	0.008807228	0.02177464	0.006721291
SILVER	328.068	Axial	19.58807	0.0005517027	0.0006520939	0.0001501368	0.0008528774
ALUMINUM	308.215	Radial	1504.519	38.05290	37.84319	38.18740	38.12812
ANTIMONY	206.833	Axial	1.940631	0.001535781	0.001876537	0.002078347	0.0006524571
BERYLLIUM	313.042	Radial	81.68453	0.005880242	0.005960497	0.006047349	0.005632879
CALCIUM	373.690	Radial	82812.83	428.2182	429.5356	425.9408	429.1783
CERIUM	535.353	Radial	54.12715	0.1875612	0.1439419	0.1487073	0.2700343
COPPER	324.754	Axial	2412.735	0.1446498	0.1443865	0.1452241	0.1443388
IRON	271.441	Radial	988.9013	109.0994	108.9057	108.7559	109.6365
LANTHANUM	333.749	Radial	30.29758	0.09902022	0.08653948	0.1016732	0.1088479
MAGNESIUM	279.079	Radial	531.3534	25.30146	25.41088	25.09772	25.39579
MANGANESE	257.610	Axial	408271.4	7.401832	7.426568	7.425015	7.353914
MOLYBDENUM	202.030	Axial	11.45825	0.005195694	0.005882257	0.004616179	0.005088648
NICKEL	231.604	Axial	348.7448	0.1512449	0.1511754	0.1524953	0.1500641
PHOSPHORUS	177.495	Axial	334.7745	3.868727	3.904648	3.863479	3.838053
POTASSIUM	766.490	Radial	1410.610	5.231653	5.214048	5.228566	5.252347
SILICON	251.611	Axial	18503.63	12.81318	12.77149	12.83476	12.83328
SODIUM	589.592	Radial	2746.522	3.458376	3.409160	3.458336	3.507634
STRONTIUM	421.552	Radial	13852.11	0.7231437	0.7255230	0.7201025	0.7238055
SULFUR	182.034	Axial	410.3421	4.502341	4.525508	4.504440	4.477073
THALLIUM	190.856	Axial	0.02016875	0.004107615	0.007450767	0.0008943001	0.003977778
TIN	189.989	Axial	1.196386	0.004600590	0.005537321	0.005313067	0.002951381
TITANIUM	334.941	Radial	193.1745	0.2278368	0.2306196	0.2278969	0.2249940
VANADIUM	292.402	Radial	45.74003	0.1517382	0.1523766	0.1526444	0.1501937
ZINC	206.200	Axial	1941.723	0.6640290	0.6672602	0.6644664	0.6603603

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834664-02 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 20:59 Sequence: 248

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12172.14	12169.75	12179.39	12167.28
YTTRIUM	360.073	Axial	185861.2	185331.9	187017.2	185234.6
YTTRIUM	360.073	Radial	3098.228	3110.352	3093.903	3090.430
INDIUM	230.606	Axial	4437.750	4460.152	4421.060	4432.037

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	9.691655	0.04598594	0.04470444	0.04559344	0.04765994
BARIUM	233.527	Axial	5247.406	1.194639	1.198236	1.196964	1.188716
BORON	249.678	Radial	1.123022	-0.002969358	-0.02014461	-0.006701166	0.01793770
CADMIUM	228.802	Axial	22.00571	0.003268867	0.003325186	0.003065470	0.003415947
CHROMIUM	267.716	Axial	818.6424	0.08168666	0.08249240	0.08088948	0.08167811
COBALT	228.616	Axial	494.8563	0.1066228	0.1065922	0.1064319	0.1068442
LEAD	220.353	Axial	163.8526	0.2089587	0.2083424	0.2096076	0.2089261
LITHIUM	670.784	Radial	249.7492	0.05456229	0.05374228	0.05468670	0.05525788
SELENIUM	196.090	Axial	1.456887	0.002939401	0.001914862	0.006314986	0.0005883537
SILVER	328.068	Axial	15.61289	0.0003093898	-0.0003842163	0.0003046993	0.001007687
ALUMINUM	308.215	Radial	2008.513	51.72622	51.79350	51.63858	51.74660
ANTIMONY	206.833	Axial	1.573647	0.0006351124	-0.004658951	0.002601962	0.003962326
BERYLLIUM	313.042	Radial	70.73535	0.005189037	0.005287015	0.005074941	0.005205155
CALCIUM	373.690	Radial	103948.1	547.3657	547.2890	547.9885	546.8195
CERIUM	535.353	Radial	60.24760	0.2421176	0.1707093	0.2934609	0.2621827
COPPER	324.754	Axial	1858.661	0.1109157	0.1107952	0.1103441	0.1116079
IRON	271.441	Radial	1179.206	132.4861	132.0310	132.4701	132.9571
LANTHANUM	333.749	Radial	29.93118	0.09962250	0.1133541	0.08325005	0.1022633
MAGNESIUM	279.079	Radial	660.7209	32.01283	31.75670	32.21108	32.07071
MANGANESE	257.610	Axial	294347.7	5.457803	5.467941	5.443274	5.462194
MOLYBDENUM	202.030	Axial	15.90436	0.007348268	0.008240339	0.007239563	0.006564903
NICKEL	231.604	Axial	340.0526	0.1516828	0.1520243	0.1522185	0.1508055
PHOSPHORUS	177.495	Axial	251.7466	2.959566	2.981259	2.952008	2.945430
POTASSIUM	766.490	Radial	1391.094	5.254144	5.246882	5.215742	5.299807
SILICON	251.611	Axial	22896.84	16.21655	16.23721	16.09640	16.31603
SODIUM	589.592	Radial	1269.022	1.604158	1.571503	1.612826	1.628145
STRONTIUM	421.552	Radial	19521.54	1.037812	1.038159	1.037934	1.037343
SULFUR	182.034	Axial	402.2583	4.455278	4.460076	4.457893	4.447865
THALLIUM	190.856	Axial	0.08423728	0.004462555	0.006413308	0.002525002	0.004449353
TIN	189.989	Axial	0.6265921	0.002843850	0.006461366	0.001107301	0.0009628818
TITANIUM	334.941	Radial	291.7785	0.3516528	0.3457089	0.3524035	0.3568460
VANADIUM	292.402	Radial	37.33338	0.1268069	0.1233449	0.1370811	0.1199948
ZINC	206.200	Axial	4009.922	1.388285	1.393104	1.388611	1.383139

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834664-03 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 21:02 Sequence: 249

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12403.69	12412.59	12394.66	12403.82
YTTRIUM	360.073	Axial	189983.3	190160.0	190419.1	189370.8
YTTRIUM	360.073	Radial	3097.434	3117.938	3092.627	3081.736
INDIUM	230.606	Axial	4696.142	4706.113	4689.805	4692.508

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.836294	0.02238272	0.02613454	0.01708651	0.02392712
BARIUM	233.527	Axial	3087.524	0.6900274	0.6932559	0.6898377	0.6869885
BORON	249.678	Radial	0.7205715	-0.01019323	-0.01350010	-0.01340689	-0.003672693
CADMIUM	228.802	Axial	5.331778	0.001535609	0.001409257	0.001671155	0.001526414
CHROMIUM	267.716	Axial	560.7263	0.05504061	0.05473336	0.05482645	0.05556201
COBALT	228.616	Axial	194.7495	0.04016804	0.03973295	0.04023258	0.04053859
LEAD	220.353	Axial	83.70224	0.1009007	0.09732151	0.1037577	0.1016228
LITHIUM	670.784	Radial	165.2132	0.03796024	0.03893913	0.03690377	0.03803781
SELENIUM	196.090	Axial	2.341635	0.008326555	0.009895931	0.006291080	0.008792654
SILVER	328.068	Axial	11.62701	0.00001949615	0.0005857370	-0.0004997761	-0.00002747245
ALUMINUM	308.215	Radial	1309.019	33.72805	33.65148	33.58693	33.94573
ANTIMONY	206.833	Axial	0.5029397	-0.002155670	0.0004710178	-0.004840850	-0.002097177
BERYLLIUM	313.042	Radial	62.98075	0.004624383	0.004524059	0.004561614	0.004787476
CALCIUM	373.690	Radial	59946.01	315.7366	314.7403	315.8758	316.5938
CERIUM	535.353	Radial	53.17985	0.1875075	0.2140919	0.1523743	0.1960563
COPPER	324.754	Axial	1287.080	0.07050189	0.06992030	0.07131025	0.07027514
IRON	271.441	Radial	752.0890	84.51313	84.07459	84.37908	85.08573
LANTHANUM	333.749	Radial	27.47112	0.09111353	0.08814484	0.09107785	0.09411789
MAGNESIUM	279.079	Radial	291.0800	14.16028	14.11089	14.01911	14.35084
MANGANESE	257.610	Axial	150903.9	2.737363	2.725350	2.743424	2.743316
MOLYBDENUM	202.030	Axial	6.635070	0.002908201	0.003620073	0.002439424	0.002665105
NICKEL	231.604	Axial	183.6790	0.07566690	0.07562397	0.07626350	0.07511323
PHOSPHORUS	177.495	Axial	224.9123	2.606339	2.620610	2.616899	2.581510
POTASSIUM	766.490	Radial	1180.136	4.453041	4.392013	4.500790	4.466321
SILICON	251.611	Axial	21523.07	14.91226	14.86996	14.95453	14.91227
SODIUM	589.592	Radial	1504.947	1.911112	1.862898	1.921946	1.948493
STRONTIUM	421.552	Radial	12388.95	0.6587922	0.6574765	0.6585503	0.6603499
SULFUR	182.034	Axial	223.8967	2.419683	2.426260	2.411905	2.420884
THALLIUM	190.856	Axial	-0.4504422	0.001659928	0.007804492	0.003538484	-0.006363192
TIN	189.989	Axial	-0.4049667	-0.0003795245	0.0008216496	-0.001212050	-0.0007481727
TITANIUM	334.941	Radial	161.4826	0.1936842	0.1934988	0.1931707	0.1943830
VANADIUM	292.402	Radial	30.92036	0.1057378	0.1026299	0.1120986	0.1024849
ZINC	206.200	Axial	518.2544	0.1729045	0.1736997	0.1729651	0.1720487

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/13/25 21:05 Sequence: 250 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12475.91	12484.82	12469.40	12473.51
YTTRIUM	360.073	Axial	190787.2	190961.7	191234.2	190165.7
YTTRIUM	360.073	Radial	3037.237	3030.845	3042.846	3038.021
INDIUM	230.606	Axial	4901.731	4920.194	4917.414	4867.584

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	383.3884	10.08817	10.07518	10.14425	10.04508
ANTIMONY	206.833	Axial	204.9480	0.5130435	0.5177906	0.5128879	0.5084521
ARSENIC	189.042	Axial	217.1164	1.010598	1.011975	1.011217	1.008602
BARIUM	233.527	Axial	2419.502	0.5377251	0.5401278	0.5402317	0.5328157
BERYLLIUM	313.042	Radial	2689.436	0.2004282	0.1995810	0.1990304	0.2026731
BORON	249.678	Radial	54.43705	0.9711146	0.9766103	0.9862269	0.9505065
CADMIUM	228.802	Axial	5043.775	0.5094948	0.5101831	0.5103306	0.5079707
CALCIUM	317.933	Radial	10943.73	49.23324	49.33489	49.01895	49.34588
CHROMIUM	267.716	Axial	10674.86	1.026837	1.028693	1.027433	1.024384
COBALT	228.616	Axial	5071.646	0.9825453	0.9795126	0.9787592	0.9893642
COPPER	324.754	Axial	15437.76	0.9993860	0.9969761	0.9980561	1.003126
IRON	259.940	Radial	651.2477	9.709655	9.662207	9.709759	9.756999
LEAD	220.353	Axial	430.2305	0.4966480	0.5000863	0.4954969	0.4943607
LITHIUM	670.784	Radial	5040.038	1.015437	1.011256	1.011749	1.023305
MAGNESIUM	279.079	Radial	196.9055	9.798071	9.714354	9.699101	9.980759
MANGANESE	257.610	Axial	56783.45	1.025738	1.024469	1.022844	1.029901
MOLYBDENUM	202.030	Axial	564.6413	0.2602188	0.2598269	0.2621220	0.2587075
NICKEL	231.604	Axial	2384.481	0.9821443	0.9803764	0.9791720	0.9868844
PHOSPHORUS	177.495	Axial	81.34846	0.9975031	1.003912	1.010786	0.9778117
POTASSIUM	766.490	Radial	12925.92	50.11568	50.17212	49.79212	50.38279
SELENIUM	196.090	Axial	162.0826	1.006500	1.003731	1.015669	1.000098
SILICON	251.611	Axial	2919.736	2.012086	2.007037	2.010735	2.018485
SILVER	328.068	Axial	7949.449	0.5290166	0.5288998	0.5289165	0.5292334
SODIUM	589.592	Radial	38571.93	51.04720	50.95477	50.82274	51.36409
STRONTIUM	421.552	Radial	18672.46	1.012608	1.011470	1.008050	1.018306
SULFUR	182.034	Axial	453.8691	4.907570	4.939546	4.917704	4.865461
THALLIUM	190.856	Axial	204.5882	1.022103	1.017115	1.034977	1.014218
TIN	189.989	Axial	171.3360	0.5269418	0.5307189	0.5311012	0.5190053
TITANIUM	334.941	Radial	820.4722	1.012756	1.011157	1.015007	1.012104
VANADIUM	292.402	Radial	295.8715	0.9968467	0.9993037	0.9825933	1.008643
ZINC	206.200	Axial	3070.135	1.036120	1.036026	1.037904	1.034430
CERIUM	535.353	Radial	41.57399	0.1044202	0.1522368	0.09825160	0.06277221
HOT WATER SOL. BORON	249.678	Radial	54.43705	0.9711146	0.9766103	0.9862269	0.9505065
LANTHANUM	333.749	Radial	2.335517	0.003690207	0.001413485	0.004723597	0.004933540

Sample ID: CCB Units: mg/l
Analyzed: 03/13/25 21:07 Sequence: 251

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12941.87	12942.23	12950.88	12932.51
YTTRIUM	360.073	Axial	199184.9	198991.6	199196.7	199366.4
YTTRIUM	360.073	Radial	3064.458	3072.053	3032.272	3089.050
INDIUM	230.606	Axial	5406.622	5412.636	5427.832	5379.397

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	0.01461857	0.02051056	0.002110260	0.002562589	0.05685883
ANTIMONY	206.833	Axial	1.189233	-0.0005399589	-0.0006459791	-0.0009820797	0.000008181966
ARSENIC	189.042	Axial	-0.4121876	-0.002112366	-0.004849639	-0.002501853	0.001014394
BARIUM	233.527	Axial	-0.7768973	0.0003906049	0.0004992310	0.0003576889	0.0003148947
BERYLLIUM	313.042	Radial	0.5832361	0.00006440336	-0.0002050657	0.00002826915	0.0003700066
BORON	249.678	Radial	0.8193079	-0.008213209	-0.004308406	0.002035230	-0.02236645
CADMIUM	228.802	Axial	-13.2717	-0.0002949228	-0.0002165335	-0.0004241551	-0.0002440799
CALCIUM	317.933	Radial	141.4209	-0.004847333	-0.001305650	-0.004289172	-0.008947177
CERIUM	535.353	Radial	36.91051	0.06537041	0.1003666	0.09803873	-0.002294110
CHROMIUM	267.716	Axial	-5.93300	0.0003764305	0.0005314384	0.00001940388	0.0005784491
COBALT	228.616	Axial	-2.98980	0.0002945602	0.0003712872	0.0005924770	-0.00008008354
COPPER	324.754	Axial	240.7669	0.0007698585	0.0004849828	0.001121709	0.0007028835
HOT WATER SOL. BORON	249.678	Radial	0.8193079	-0.008213209	-0.004308406	0.002035230	-0.02236645
IRON	259.940	Radial	0.2707882	0.002002131	0.006590107	0.002035921	-0.002619636
LANTHANUM	333.749	Radial	1.675647	0.001308701	0.003296792	0.002906267	-0.002276957
LEAD	220.353	Axial	-0.7348732	-0.0007180431	0.0003348233	-0.001261390	-0.001227562
LITHIUM	670.784	Radial	-28.8979	-0.0002317410	0.002364028	0.0001572377	-0.003216489
MAGNESIUM	279.079	Radial	-1.63861	0.01566636	0.001905594	0.08909770	-0.04400421
MANGANESE	257.610	Axial	16.06833	0.0003321065	0.0003618443	0.0003310104	0.0003034649
MOLYBDENUM	202.030	Axial	0.7547746	0.0001665073	0.0004626806	-0.0002085509	0.0002453921
NICKEL	231.604	Axial	9.499399	-0.00002666575	0.00001398111	-0.0004463167	0.0003523384
PHOSPHORUS	177.495	Axial	-9.19842	-0.004351952	-0.009843809	-0.003136776	-0.00007527218
POTASSIUM	766.490	Radial	11.13703	0.006171091	-0.03212272	0.08564669	-0.03501070
SELENIUM	196.090	Axial	0.8307530	-0.001384804	0.001156583	-0.006361971	0.001050975
SILICON	251.611	Axial	7.530625	0.002271069	0.003218015	0.0002838181	0.003311375
SILVER	328.068	Axial	15.16927	0.0002097963	0.0005564257	0.0005166702	-0.0004437069
SODIUM	589.592	Radial	330.0839	0.3896738	0.3958370	0.3971818	0.3760025
STRONTIUM	421.552	Radial	8.646707	0.0004405360	0.0008277063	0.0002987879	0.0001951139
SULFUR	182.034	Axial	4.733802	0.01917838	0.006097694	0.02939850	0.02203894
THALLIUM	190.856	Axial	-0.9533491	-0.0002901383	0.0001499465	-0.002561104	0.001540743
TIN	189.989	Axial	0.09676440	0.001157480	0.002883069	0.001393793	-0.0008044231
TITANIUM	334.941	Radial	2.629191	0.001048987	-0.002160711	0.005272862	0.00003480963
VANADIUM	292.402	Radial	-3.36095	-0.007179869	-0.01121501	-0.004831893	-0.005492709
ZINC	206.200	Axial	7.482223	-0.001189956	-0.001138055	-0.001256900	-0.001174913

Sample ID: L1834664-04 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 21:10 Sequence: 252

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11909.33	11928.69	11897.75	11901.57
YTTRIUM	360.073	Axial	183393.0	183746.5	182390.5	184042.0
YTTRIUM	360.073	Radial	3109.466	3092.842	3097.541	3138.014
INDIUM	230.606	Axial	4291.225	4292.941	4264.892	4315.843

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	3.872025	0.01862172	0.01942217	0.02201416	0.01442881
BARIUM	233.527	Axial	2980.660	0.6937912	0.6966467	0.6887287	0.6959983
BORON	249.678	Radial	1.429292	0.002259987	-0.02386038	0.002940965	0.02769938
CADMIUM	228.802	Axial	28.85988	0.004043050	0.003868229	0.004423703	0.003837217
CHROMIUM	267.716	Axial	453.1431	0.04622795	0.04572850	0.04622065	0.04673471
COBALT	228.616	Axial	139.2961	0.03162112	0.03135534	0.03218851	0.03131952
LEAD	220.353	Axial	85.27924	0.1124862	0.1146533	0.1101421	0.1126631
LITHIUM	670.784	Radial	217.4493	0.04806501	0.04765815	0.04937709	0.04715977
SELENIUM	196.090	Axial	-0.02303243	-0.006541761	-0.007250954	-0.009907272	-0.002467057
SILVER	328.068	Axial	28.66938	0.001229095	0.0005305260	0.001441067	0.001715692
ALUMINUM	308.215	Radial	1208.363	31.01519	31.00874	30.99832	31.03849
ANTIMONY	206.833	Axial	-1.27873	-0.006808672	-0.002256244	-0.009493546	-0.008676224
BERYLLIUM	313.042	Radial	48.48236	0.003550923	0.003332756	0.003812602	0.003507412
CALCIUM	373.690	Radial	170530.8	894.7492	893.3194	897.9286	892.9997
CERIUM	535.353	Radial	84.43274	0.4259164	0.3231776	0.4777226	0.4768489
COPPER	324.754	Axial	1246.132	0.07075239	0.07127342	0.06968912	0.07129462
IRON	271.441	Radial	505.4926	56.57379	56.10533	57.03411	56.58194
LANTHANUM	333.749	Radial	28.80992	0.09534453	0.08651039	0.09754138	0.1019818
MAGNESIUM	279.079	Radial	999.3083	48.19524	48.29269	48.40241	47.89061
MANGANESE	257.610	Axial	161769.1	3.039912	3.034805	3.046851	3.038082
MOLYBDENUM	202.030	Axial	9.764228	0.004547693	0.004838556	0.004529738	0.004274785
NICKEL	231.604	Axial	151.8663	0.06812317	0.06844733	0.06796226	0.06795991
PHOSPHORUS	177.495	Axial	325.4826	3.880588	3.896098	3.873834	3.871831
POTASSIUM	766.490	Radial	1377.836	5.184598	5.162553	5.175712	5.215529
SILICON	251.611	Axial	21757.80	15.61665	15.61912	15.58046	15.65036
SODIUM	589.592	Radial	1441.127	1.820611	1.761200	1.842465	1.858168
STRONTIUM	421.552	Radial	20821.59	1.102933	1.100672	1.106806	1.101322
SULFUR	182.034	Axial	424.5366	4.808169	4.826592	4.791766	4.806151
THALLIUM	190.856	Axial	-0.6391482	0.0003693679	-0.002125989	0.0008168405	0.002417252
TIN	189.989	Axial	0.2230710	0.001586482	0.004767664	-0.0004734291	0.0004652121
TITANIUM	334.941	Radial	158.7518	0.1896307	0.1833317	0.1979136	0.1876468
VANADIUM	292.402	Radial	22.61725	0.07807822	0.07268587	0.07350446	0.08804434
ZINC	206.200	Axial	899.8729	0.3156224	0.3161124	0.3150524	0.3157023

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834664-11 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 21:13 Sequence: 253

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12491.72	12479.52	12501.59	12494.05
YTTRIUM	360.073	Axial	192533.8	191486.0	192502.0	193613.5
YTTRIUM	360.073	Radial	3117.744	3127.634	3109.095	3116.502
INDIUM	230.606	Axial	4763.682	4777.617	4753.213	4760.215

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	8.461408	0.03908079	0.03841259	0.04350327	0.03532650
BARIUM	233.527	Axial	3694.673	0.8197983	0.8253852	0.8175487	0.8164610
BORON	249.678	Radial	1.539209	0.004258433	0.01232795	-0.00009961149	0.0005469581
CADMIUM	228.802	Axial	11.30298	0.002133073	0.002249755	0.001869849	0.002279615
CHROMIUM	267.716	Axial	680.7465	0.06575708	0.06649346	0.06651997	0.06425783
COBALT	228.616	Axial	192.8861	0.03923886	0.03918792	0.03968813	0.03884055
LEAD	220.353	Axial	122.0941	0.1450640	0.1457866	0.1429000	0.1465055
LITHIUM	670.784	Radial	106.2143	0.02623615	0.02467587	0.02630378	0.02772880
SELENIUM	196.090	Axial	1.217894	0.001212797	0.007184813	-0.0007380988	-0.002808323
SILVER	328.068	Axial	9.213884	-0.0001507734	0.0001314385	-0.0009149005	0.0003311417
ALUMINUM	308.215	Radial	1486.521	38.04898	38.01119	38.05744	38.07831
ANTIMONY	206.833	Axial	1.058952	-0.0007650149	-0.003378072	-0.0006601526	0.001743179
BERYLLIUM	313.042	Radial	66.99538	0.004885316	0.004890388	0.004826101	0.004939459
CALCIUM	373.690	Radial	39922.10	208.8915	208.5333	209.3812	208.7600
CERIUM	535.353	Radial	39.65469	0.08116994	0.1071378	0.05744206	0.07892992
COPPER	324.754	Axial	1254.923	0.06728393	0.06728273	0.06636909	0.06819997
IRON	271.441	Radial	875.5842	97.75087	97.63818	97.47717	98.13726
LANTHANUM	333.749	Radial	24.18213	0.07910290	0.07870700	0.08917551	0.06942618
MAGNESIUM	279.079	Radial	228.6202	11.07009	11.01443	11.13415	11.06168
MANGANESE	257.610	Axial	199251.4	3.566512	3.584667	3.552697	3.562173
MOLYBDENUM	202.030	Axial	10.45570	0.004646228	0.004324901	0.005234272	0.004379510
NICKEL	231.604	Axial	283.4447	0.1169791	0.1181036	0.1174835	0.1153502
PHOSPHORUS	177.495	Axial	283.2696	3.235885	3.258749	3.256313	3.192593
POTASSIUM	766.490	Radial	952.7472	3.564225	3.515249	3.617291	3.560136
SILICON	251.611	Axial	15404.89	10.53112	10.55724	10.49088	10.54523
SODIUM	589.592	Radial	1147.300	1.436723	1.428434	1.440080	1.441655
STRONTIUM	421.552	Radial	8953.895	0.4730203	0.4718558	0.4739432	0.4732619
SULFUR	182.034	Axial	215.2989	2.308995	2.315995	2.325153	2.285839
THALLIUM	190.856	Axial	-0.5717447	0.001072170	0.005258494	0.0005490632	-0.002591049
TIN	189.989	Axial	0.1745916	0.001407749	0.002384844	-0.0004180332	0.002256436
TITANIUM	334.941	Radial	206.2996	0.2464163	0.2439631	0.2437652	0.2515205
VANADIUM	292.402	Radial	45.88232	0.1539919	0.1473553	0.1575581	0.1570624
ZINC	206.200	Axial	841.3780	0.2809540	0.2824821	0.2804026	0.2799774

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834998-09 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 21:16 Sequence: 254

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12368.24	12348.30	12365.81	12390.61
YTTRIUM	360.073	Axial	188092.8	188107.5	187568.5	188602.2
YTTRIUM	360.073	Radial	3051.759	3046.913	3073.386	3034.977
INDIUM	230.606	Axial	4599.492	4581.930	4593.860	4622.685

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
LEAD	220.353	Axial	115.2363	0.1418159	0.1440317	0.1431231	0.1382930
ALUMINUM	308.215	Radial	6926.760	181.0579	181.2696	180.1425	181.7615
ANTIMONY	206.833	Axial	5.498006	0.01055132	0.01727264	0.006240005	0.008141312
ARSENIC	189.042	Axial	4.316037	0.02000693	0.02045508	0.01988321	0.01968251
BARIUM	233.527	Axial	6829.024	1.529913	1.532164	1.531868	1.525708
BERYLLIUM	313.042	Radial	33.84346	0.002532351	0.002373757	0.002481200	0.002742097
BORON	249.678	Radial	2.149184	0.01603870	0.03134883	-0.009586766	0.02635403
CADMIUM	228.802	Axial	-8.22079	0.0001587655	0.000009487888	0.0002618801	0.0002049285
CALCIUM	373.690	Radial	11940.85	63.81697	63.24127	63.70593	64.50371
CERIUM	535.353	Radial	-38.6521	-0.5254552	-0.5532137	-0.5151360	-0.5080160
CHROMIUM	267.716	Axial	1839.862	0.1802777	0.1804093	0.1803732	0.1800505
COBALT	228.616	Axial	807.4156	0.1673826	0.1688287	0.1670640	0.1662549
COPPER	324.754	Axial	7333.686	0.4741072	0.4729226	0.4746294	0.4747695
IRON	271.441	Radial	2948.732	336.3787	335.9004	335.3317	337.9041
LANTHANUM	333.749	Radial	14.32196	0.04606132	0.04974325	0.03935258	0.04908814
LITHIUM	670.784	Radial	1134.736	0.2318036	0.2302858	0.2314459	0.2336792
MAGNESIUM	279.079	Radial	1963.920	96.41296	95.96585	95.82439	97.44863
MANGANESE	257.610	Axial	246594.0	4.518118	4.495295	4.551677	4.507383
MOLYBDENUM	202.030	Axial	3.232128	0.001334050	0.001485087	0.0006165553	0.001900509
NICKEL	231.604	Axial	460.2931	0.1992000	0.2002657	0.2000047	0.1973295
PHOSPHORUS	177.495	Axial	361.5647	4.144302	4.146985	4.153866	4.132057
POTASSIUM	766.490	Radial	1146.802	4.391440	4.368616	4.374291	4.431413
SELENIUM	196.090	Axial	1.851721	0.005278087	0.001222650	0.007265626	0.007345985
SILICON	251.611	Axial	24646.64	17.24852	17.20498	17.27743	17.26316
SILVER	328.068	Axial	-32.1116	-0.002930215	-0.003199904	-0.003198005	-0.002392735
SODIUM	589.592	Radial	8564.795	11.24709	11.17085	11.22456	11.34586
STRONTIUM	421.552	Radial	28200.22	1.522049	1.515351	1.520096	1.530700
SULFUR	182.034	Axial	3125.433	34.26993	34.32772	34.17213	34.30995
THALLIUM	190.856	Axial	-0.4567846	0.001575566	0.0007378422	-0.0006544318	0.004643288
TIN	189.989	Axial	-0.1641034	0.0003655542	0.002572948	-0.0001233670	-0.001352918
TITANIUM	334.941	Radial	467.1224	0.5729079	0.5693410	0.5727713	0.5766114
VANADIUM	292.402	Radial	150.0528	0.5051009	0.5029766	0.5109160	0.5014100
ZINC	206.200	Axial	2242.017	0.7622751	0.7637104	0.7616503	0.7614646

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835011-01 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 21:18 Sequence: 255

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12165.30	12167.25	12141.55	12187.10
YTTRIUM	360.073	Axial	185604.9	186120.6	185792.5	184901.7
YTTRIUM	360.073	Radial	3043.129	3060.770	3040.377	3028.241
INDIUM	230.606	Axial	4601.272	4621.783	4581.671	4600.363

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	3.397382	0.01595091	0.01140905	0.01199659	0.02444709
BARIUM	233.527	Axial	1227.187	0.2799698	0.2818863	0.2801133	0.2779099
CADMIUM	228.802	Axial	0.3373269	0.001029744	0.001064071	0.001004604	0.001020557
CHROMIUM	267.716	Axial	341.9038	0.03469958	0.03474849	0.03430146	0.03504880
LEAD	220.353	Axial	45.75930	0.05632261	0.05548540	0.05772159	0.05576084
SELENIUM	196.090	Axial	0.3349104	-0.004238761	0.0002884328	-0.001377078	-0.01162764
SILVER	328.068	Axial	7.775443	-0.0002257989	-0.0003622029	-0.0002685632	-0.00004663076
ALUMINUM	308.215	Radial	790.0793	20.72788	20.73072	20.74447	20.70845
ANTIMONY	206.833	Axial	0.4354592	-0.002301026	-0.005215778	0.001194605	-0.002881904
BERYLLIUM	313.042	Radial	24.08201	0.001813243	0.001652515	0.002115262	0.001671951
BORON	249.678	Radial	1.747719	0.008689455	0.02589634	0.003448517	-0.003276497
CALCIUM	373.690	Radial	65596.84	351.6742	348.7896	351.2609	354.9721
CERIUM	535.353	Radial	34.43368	0.04787039	-0.01907007	0.07643181	0.08624943
COBALT	228.616	Axial	124.7124	0.02653711	0.02633597	0.02654881	0.02672654
COPPER	324.754	Axial	1566.703	0.09138087	0.09025524	0.09210413	0.09178323
IRON	271.441	Radial	445.1174	50.90016	50.98161	50.99125	50.72762
LANTHANUM	333.749	Radial	8.120050	0.02418131	0.02698014	0.02246216	0.02310164
LITHIUM	670.784	Radial	173.9098	0.04027803	0.04215656	0.03775826	0.04091927
MAGNESIUM	279.079	Radial	756.2167	37.28857	36.76444	37.39740	37.70386
MANGANESE	257.610	Axial	105866.3	1.965713	1.965970	1.959912	1.971257
MOLYBDENUM	202.030	Axial	1.693858	0.0006326536	0.001027037	0.001029569	-0.0001586455
NICKEL	231.604	Axial	105.3717	0.04281836	0.04198111	0.04380614	0.04266783
PHOSPHORUS	177.495	Axial	83.85047	1.049069	1.059893	1.048889	1.038426
POTASSIUM	766.490	Radial	606.2087	2.310532	2.281417	2.332856	2.317322
SILICON	251.611	Axial	10049.93	7.125960	7.140206	7.095971	7.141702
SODIUM	589.592	Radial	1098.169	1.408155	1.380684	1.409649	1.434130
STRONTIUM	421.552	Radial	5461.644	0.2955931	0.2959815	0.2954594	0.2953384
SULFUR	182.034	Axial	262.1294	2.894287	2.911181	2.886275	2.885406
THALLIUM	190.856	Axial	-0.8486675	-0.0004855088	-0.002008668	0.003963076	-0.003410934
TIN	189.989	Axial	1.500309	0.005593244	0.004601643	0.003988701	0.008189389
TITANIUM	334.941	Radial	234.3103	0.2870951	0.2878844	0.2843669	0.2890340
VANADIUM	292.402	Radial	8.774193	0.03339842	0.02709635	0.03450218	0.03859671
ZINC	206.200	Axial	611.0896	0.2086082	0.2101101	0.2088572	0.2068572

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835011-02 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 21:21 Sequence: 256

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11960.93	11937.36	11965.26	11980.17
YTTRIUM	360.073	Axial	182606.3	182650.3	182731.9	182436.7
YTTRIUM	360.073	Radial	3044.825	3013.633	3075.145	3045.698
INDIUM	230.606	Axial	4355.424	4344.449	4355.933	4365.891

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	9.879906	0.04772088	0.05306284	0.04264744	0.04745236
BARIUM	233.527	Axial	1579.876	0.3664177	0.3670920	0.3665860	0.3655751
CADMIUM	228.802	Axial	10.11311	0.002058551	0.002227521	0.002045928	0.001902205
CHROMIUM	267.716	Axial	576.7714	0.05883735	0.05864537	0.05860037	0.05926629
LEAD	220.353	Axial	80.20593	0.1042482	0.1071600	0.1038110	0.1017735
SELENIUM	196.090	Axial	-0.1632410	-0.007460201	-0.01306855	-0.003374469	-0.005937582
SILVER	328.068	Axial	21.09502	0.0007099773	0.0006394411	0.0008120258	0.0006784649
ALUMINUM	308.215	Radial	1523.248	39.92260	40.06177	39.79944	39.90659
ANTIMONY	206.833	Axial	-2.45341	-0.009875452	-0.007818198	-0.009547812	-0.01226035
BERYLLIUM	313.042	Radial	37.08271	0.002778787	0.002800051	0.002688093	0.002848217
BORON	249.678	Radial	2.008609	0.01350704	0.03120355	0.02409555	-0.01477797
CALCIUM	373.690	Radial	133124.1	713.3102	713.9865	711.0917	714.8524
CERIUM	535.353	Radial	63.63923	0.2769049	0.2515497	0.2030882	0.3760767
COBALT	228.616	Axial	225.9086	0.05003420	0.05038409	0.05011877	0.04959975
COPPER	324.754	Axial	1898.085	0.1158527	0.1151963	0.1149460	0.1174160
IRON	271.441	Radial	856.0906	97.86611	98.13938	97.37420	98.08474
LANTHANUM	333.749	Radial	13.74588	0.04409109	0.04252344	0.04874943	0.04100041
LITHIUM	670.784	Radial	336.7943	0.07282535	0.07248203	0.07077238	0.07522163
MAGNESIUM	279.079	Radial	1042.170	51.32368	51.48953	50.91151	51.57000
MANGANESE	257.610	Axial	155980.3	2.943753	2.944635	2.927820	2.958803
MOLYBDENUM	202.030	Axial	10.42692	0.004846674	0.005095625	0.004960220	0.004484176
NICKEL	231.604	Axial	156.0835	0.06902789	0.06850236	0.06974157	0.06883974
PHOSPHORUS	177.495	Axial	197.2561	2.378997	2.389185	2.374491	2.373316
POTASSIUM	766.490	Radial	1013.360	3.884972	3.876725	3.871665	3.906526
SILICON	251.611	Axial	14393.31	10.37451	10.38044	10.28622	10.45686
SODIUM	589.592	Radial	1529.953	1.977726	1.960185	1.965969	2.007024
STRONTIUM	421.552	Radial	11095.01	0.6001778	0.6000852	0.5984700	0.6019782
SULFUR	182.034	Axial	1138.327	12.88764	12.89605	12.88141	12.88547
THALLIUM	190.856	Axial	-0.3343091	0.002133346	0.003327878	0.0001619467	0.002910215
TIN	189.989	Axial	1.070340	0.004295387	0.001326271	0.002954993	0.008604897
TITANIUM	334.941	Radial	294.6626	0.3614097	0.3610448	0.3595906	0.3635937
VANADIUM	292.402	Radial	15.44876	0.05570691	0.05487448	0.05354215	0.05870411
ZINC	206.200	Axial	2772.178	0.9756351	0.9760938	0.9775695	0.9732419

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835011-03 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 21:24 Sequence: 257

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12598.47	12597.46	12594.77	12603.17
YTTRIUM	360.073	Axial	193004.8	193765.9	191598.0	193650.5
YTTRIUM	360.073	Radial	3080.564	3073.729	3070.701	3097.262
INDIUM	230.606	Axial	5009.307	4997.964	5010.156	5019.800

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.7131318	0.003024809	0.003982135	0.002921904	0.002170388
BARIUM	233.527	Axial	299.0101	0.06629620	0.06622460	0.06653110	0.06613290
CADMIUM	228.802	Axial	9.480151	0.001941348	0.001902236	0.001975980	0.001945827
CHROMIUM	267.716	Axial	169.1832	0.01699598	0.01667568	0.01717011	0.01714215
LEAD	220.353	Axial	23.23911	0.02630042	0.02661889	0.02651689	0.02576549
SELENIUM	196.090	Axial	0.6059628	-0.002640878	-0.0001984766	-0.002835115	-0.004889044
SILVER	328.068	Axial	-6.50362	-0.001188298	-0.001695255	-0.001511179	-0.0003584589
ALUMINUM	308.215	Radial	273.8011	7.109085	7.054102	7.090276	7.182878
ANTIMONY	206.833	Axial	1.141157	-0.0005817163	-0.001662827	-0.001178710	0.001096388
BERYLLIUM	313.042	Radial	12.62603	0.0009496160	0.0008914709	0.0009861830	0.0009711942
BORON	249.678	Radial	1.610315	0.005859234	-0.02236422	0.02279265	0.01714927
CALCIUM	373.690	Radial	14571.01	77.14980	77.22330	77.51828	76.70783
CERIUM	535.353	Radial	33.52603	0.03715485	-0.05626991	0.05479167	0.1129428
COBALT	228.616	Axial	50.75338	0.01043382	0.01049812	0.01082644	0.009976902
COPPER	324.754	Axial	487.0162	0.01724078	0.01652341	0.01754400	0.01765493
IRON	271.441	Radial	221.5030	25.00986	24.88386	25.09996	25.04577
LANTHANUM	333.749	Radial	3.543198	0.007819624	0.005904124	0.01413409	0.003420655
LITHIUM	670.784	Radial	48.16137	0.01501587	0.01389726	0.01621777	0.01493259
MAGNESIUM	279.079	Radial	346.0116	16.90569	16.76844	17.02130	16.92734
MANGANESE	257.610	Axial	35203.20	0.6286353	0.6261568	0.6322547	0.6274944
MOLYBDENUM	202.030	Axial	-0.9757786	-0.0006148165	-0.0001894173	-0.001242892	-0.0004121400
NICKEL	231.604	Axial	40.16179	0.01265839	0.01270792	0.01345905	0.01180818
PHOSPHORUS	177.495	Axial	27.33480	0.3947225	0.3937956	0.3965953	0.3937767
POTASSIUM	766.490	Radial	361.1120	1.344593	1.334098	1.444834	1.254846
SILICON	251.611	Axial	4125.420	2.811412	2.795696	2.825702	2.812837
SODIUM	589.592	Radial	806.0517	1.008817	0.9959186	0.9801948	1.050337
STRONTIUM	421.552	Radial	1420.416	0.07592230	0.07596051	0.07548437	0.07632202
SULFUR	182.034	Axial	93.59147	0.9778905	0.9782288	0.9773482	0.9780945
THALLIUM	190.856	Axial	-0.2548520	0.002759909	-0.002181970	0.007236806	0.003224891
TIN	189.989	Axial	-0.2029729	0.0002545738	0.002529482	-0.0008171730	-0.0009485878
TITANIUM	334.941	Radial	65.18928	0.07731445	0.07979671	0.07575995	0.07638670
VANADIUM	292.402	Radial	0.6628772	0.006191789	0.005084305	0.009787219	0.003703842
ZINC	206.200	Axial	1181.832	0.3927207	0.3911501	0.3932381	0.3937740

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835075-01 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 21:27 Sequence: 258

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12709.85	12730.37	12684.59	12714.60
YTTRIUM	360.073	Axial	194458.6	194335.2	194726.9	194313.9
YTTRIUM	360.073	Radial	3132.764	3124.815	3120.498	3152.979
INDIUM	230.606	Axial	4921.091	4919.320	4919.616	4924.336

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CALCIUM	373.690	Radial	17499.87	91.11764	90.72345	91.94358	90.68588
MAGNESIUM	279.079	Radial	374.7352	17.99789	17.96832	18.03600	17.98934
SODIUM	589.592	Radial	4250.159	5.414143	5.415780	5.391521	5.435128
ALUMINUM	308.215	Radial	1010.003	25.73459	25.73584	25.72642	25.74150
ANTIMONY	206.833	Axial	2.072262	0.001697898	-0.001134663	0.001550103	0.004678253
ARSENIC	189.042	Axial	5.144802	0.02324503	0.02743785	0.02004485	0.02225238
BARIUM	233.527	Axial	4112.879	0.8968745	0.8982948	0.8967546	0.8955741
BERYLLIUM	313.042	Radial	49.79089	0.003619853	0.003803871	0.003668361	0.003387327
BORON	249.678	Radial	0.6103231	-0.01230270	-0.007591884	-0.01497645	-0.01433977
CADMIUM	228.802	Axial	3.164091	0.001308050	0.001397153	0.001414029	0.001112968
CERIUM	535.353	Radial	43.39777	0.1083048	0.1918826	0.03224022	0.1007917
CHROMIUM	267.716	Axial	681.6647	0.06519778	0.06621861	0.06513293	0.06424181
COBALT	228.616	Axial	194.9343	0.03840473	0.03888124	0.03823381	0.03809913
COPPER	324.754	Axial	2092.422	0.1204352	0.1214595	0.1204674	0.1193787
IRON	271.441	Radial	666.5601	74.05245	73.96227	73.99975	74.19535
LANTHANUM	333.749	Radial	26.01800	0.08501334	0.08886177	0.08059680	0.08558147
LEAD	220.353	Axial	75.52523	0.08688525	0.08600510	0.08691052	0.08774014
LITHIUM	670.784	Radial	143.3950	0.03336613	0.03337395	0.03570381	0.03102063
MANGANESE	257.610	Axial	56608.48	1.003265	1.005375	1.003788	1.000631
MOLYBDENUM	202.030	Axial	8.502214	0.003681315	0.002656733	0.005392369	0.002994842
NICKEL	231.604	Axial	224.7363	0.08894997	0.08936380	0.08916699	0.08831912
PHOSPHORUS	177.495	Axial	128.2754	1.492418	1.493864	1.500130	1.483260
POTASSIUM	766.490	Radial	1271.567	4.746297	4.746086	4.786774	4.706032
SELENIUM	196.090	Axial	1.246989	0.001258718	0.003538721	0.003235765	-0.002998331
SILICON	251.611	Axial	10654.29	7.210543	7.219328	7.217821	7.194479
SILVER	328.068	Axial	1.484654	-0.0006615468	-0.0003494335	-0.0009491378	-0.0006860691
STRONTIUM	421.552	Radial	8736.635	0.4593344	0.4564213	0.4639581	0.4576239
SULFUR	182.034	Axial	1927.209	20.55135	20.60510	20.49024	20.55872
THALLIUM	190.856	Axial	-0.5748560	0.001154387	0.003741587	-0.005855322	0.005576897
TIN	189.989	Axial	0.7709223	0.003195319	0.002601481	0.003175492	0.003808985
TITANIUM	334.941	Radial	227.9094	0.2711301	0.2696927	0.2693649	0.2743325
VANADIUM	292.402	Radial	24.71798	0.08443222	0.08775299	0.08877880	0.07676487
ZINC	206.200	Axial	980.5794	0.3223455	0.3225395	0.3239256	0.3205713

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835075-02 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 21:29 Sequence: 259

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12510.82	12505.48	12496.90	12530.07
YTTRIUM	360.073	Axial	191248.9	191212.3	190603.5	191930.8
YTTRIUM	360.073	Radial	3077.491	3100.401	3089.421	3042.652
INDIUM	230.606	Axial	4793.200	4784.205	4799.970	4795.425

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CALCIUM	373.690	Radial	20818.35	110.3500	110.0083	109.9036	111.1382
MAGNESIUM	279.079	Radial	765.8236	37.34089	37.14150	37.16948	37.71170
SODIUM	589.592	Radial	5097.816	6.620503	6.592076	6.621226	6.648207
ALUMINUM	308.215	Radial	1777.218	46.08063	45.97867	46.14133	46.12188
ANTIMONY	206.833	Axial	1.514856	0.0003783726	0.001351597	0.0004928507	-0.0007093301
ARSENIC	189.042	Axial	5.057620	0.02322253	0.02446319	0.02678004	0.01842434
BARIUM	233.527	Axial	16858.82	3.733052	3.742677	3.735417	3.721063
BERYLLIUM	313.042	Radial	50.78374	0.003755412	0.003831746	0.003926105	0.003508386
BORON	249.678	Radial	2.579237	0.02342091	0.007415001	0.03435825	0.02848947
CADMIUM	228.802	Axial	-0.9239759	0.0009020613	0.0009437317	0.0009552421	0.0008072103
CERIUM	535.353	Radial	31.28329	0.01993571	0.01624864	0.07373750	-0.03017901
CHROMIUM	267.716	Axial	982.0629	0.09507643	0.09453708	0.09516583	0.09552639
COBALT	228.616	Axial	199.4322	0.04029772	0.04010332	0.04006424	0.04072560
COPPER	324.754	Axial	1960.590	0.1140606	0.1140846	0.1135792	0.1145180
IRON	271.441	Radial	888.1907	100.4575	100.0056	100.7127	100.6542
LANTHANUM	333.749	Radial	28.91943	0.09676745	0.1020083	0.09684184	0.09145219
LEAD	220.353	Axial	87.66182	0.1035276	0.1032511	0.1058831	0.1014487
LITHIUM	670.784	Radial	285.5034	0.06194732	0.06520416	0.06081801	0.05981980
MANGANESE	257.610	Axial	109479.2	1.972784	1.962549	1.971842	1.983959
MOLYBDENUM	202.030	Axial	10.22912	0.004535519	0.004931372	0.004914455	0.003760729
NICKEL	231.604	Axial	230.2127	0.09373401	0.09392057	0.09401840	0.09326306
PHOSPHORUS	177.495	Axial	274.9573	3.139050	3.145820	3.152712	3.118618
POTASSIUM	766.490	Radial	2106.649	8.030429	7.983392	7.965108	8.142786
SELENIUM	196.090	Axial	1.053667	0.0001716346	-0.008832371	0.002971914	0.006375360
SILICON	251.611	Axial	13569.67	9.338391	9.277380	9.313182	9.424610
SILVER	328.068	Axial	3.701322	-0.0005114380	-0.0003574898	-0.00003151751	-0.001145307
STRONTIUM	421.552	Radial	12182.66	0.6520440	0.6501075	0.6487731	0.6572514
SULFUR	182.034	Axial	1765.129	19.12041	19.15061	19.13728	19.07333
THALLIUM	190.856	Axial	-0.4561416	0.001682277	0.0002912776	0.003302047	0.001453505
TIN	189.989	Axial	-1.14440	-0.002631661	-0.006894102	0.001325806	-0.002326688
TITANIUM	334.941	Radial	359.2947	0.4364496	0.4394747	0.4331813	0.4366930
VANADIUM	292.402	Radial	25.83458	0.08959266	0.07809093	0.09526745	0.09541959
ZINC	206.200	Axial	1128.773	0.3775792	0.3778384	0.3781907	0.3767084

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835075-04 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 21:32 Sequence: 260

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12579.60	12590.80	12579.21	12568.81
YTTRIUM	360.073	Axial	191814.1	191588.7	191670.6	192182.9
YTTRIUM	360.073	Radial	3110.453	3146.732	3106.098	3078.529
INDIUM	230.606	Axial	4843.779	4836.743	4870.212	4824.384

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CALCIUM	373.690	Radial	22756.89	119.3535	118.2948	118.8420	120.9235
MAGNESIUM	279.079	Radial	427.1564	20.65212	20.18292	20.61574	21.15770
SODIUM	589.592	Radial	4441.183	5.700454	5.704143	5.684304	5.712915
ALUMINUM	308.215	Radial	1083.567	27.80554	27.79313	27.79390	27.82958
ANTIMONY	206.833	Axial	2.239092	0.002168616	-0.0006781366	0.001844014	0.005339970
ARSENIC	189.042	Axial	5.326712	0.02433451	0.02155713	0.02358989	0.02785652
BARIUM	233.527	Axial	3992.969	0.8797526	0.8793513	0.8819635	0.8779429
BERYLLIUM	313.042	Radial	57.71172	0.004222934	0.003938716	0.004363376	0.004366711
BORON	249.678	Radial	1.981910	0.01213043	0.03111310	-0.0008538801	0.006132083
CADMIUM	228.802	Axial	10.17154	0.002011948	0.001841613	0.002179352	0.002014879
CERIUM	535.353	Radial	40.73107	0.09068631	-0.01911606	0.1985950	0.09257998
CHROMIUM	267.716	Axial	670.4180	0.06500861	0.06482326	0.06494461	0.06525797
COBALT	228.616	Axial	201.0132	0.04019646	0.04059291	0.03970518	0.04029130
COPPER	324.754	Axial	2125.808	0.1244755	0.1249207	0.1250603	0.1234456
IRON	271.441	Radial	697.2182	78.01295	78.62306	77.46529	77.95050
LANTHANUM	333.749	Radial	33.79853	0.1126098	0.1196090	0.1100082	0.1082122
LEAD	220.353	Axial	86.94514	0.1016120	0.1014281	0.1013060	0.1021020
LITHIUM	670.784	Radial	153.3540	0.03550892	0.03737087	0.03007834	0.03907754
MANGANESE	257.610	Axial	64471.42	1.158366	1.158465	1.159726	1.156905
MOLYBDENUM	202.030	Axial	8.887149	0.003895212	0.004286173	0.003913520	0.003485942
NICKEL	231.604	Axial	231.6144	0.09330355	0.09326329	0.09348701	0.09316034
PHOSPHORUS	177.495	Axial	154.6101	1.796926	1.796700	1.808892	1.785186
POTASSIUM	766.490	Radial	1361.296	5.120608	5.065112	5.195647	5.101064
SELENIUM	196.090	Axial	1.507259	0.002950481	0.003454331	0.001527934	0.003869178
SILICON	251.611	Axial	14614.39	10.02807	10.04352	10.02290	10.01780
SILVER	328.068	Axial	-0.7469596	-0.0008079727	-0.001070401	-0.0001069000	-0.001246617
STRONTIUM	421.552	Radial	10009.60	0.5300732	0.5254867	0.5274485	0.5372844
SULFUR	182.034	Axial	2799.449	30.17613	30.15730	30.40411	29.96698
THALLIUM	190.856	Axial	-0.8816306	-0.0004367259	-0.001181773	0.0004237446	-0.0005521491
TIN	189.989	Axial	0.9755601	0.003840826	0.005280829	0.006101401	0.0001402477
TITANIUM	334.941	Radial	283.0128	0.3396618	0.3398486	0.3390911	0.3400456
VANADIUM	292.402	Radial	29.30294	0.09999125	0.1016463	0.1013995	0.09692794
ZINC	206.200	Axial	1138.035	0.3786048	0.3784632	0.3788347	0.3785166

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835078-01 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 21:35 Sequence: 261

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12917.04	12891.25	12931.63	12928.23
YTTRIUM	360.073	Axial	198791.2	198574.5	198786.0	199013.2
YTTRIUM	360.073	Radial	3099.564	3100.168	3109.732	3088.791
INDIUM	230.606	Axial	5211.075	5203.302	5211.318	5218.604

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.6870396	0.002829915	0.006686004	0.003179486	-0.001375746
BARIUM	233.527	Axial	448.3643	0.09670197	0.09718626	0.09654702	0.09637264
CADMIUM	228.802	Axial	-10.3507	-0.00001312984	-0.0001540405	-0.0002144013	0.0003290523
CHROMIUM	267.716	Axial	141.9536	0.01401567	0.01383751	0.01378563	0.01442387
LEAD	220.353	Axial	7.439004	0.008129344	0.009470914	0.007203845	0.007713273
SELENIUM	196.090	Axial	1.345112	0.001722236	-0.003387984	0.008054761	0.0004999294
SILVER	328.068	Axial	-9.14900	-0.001344156	-0.001561445	-0.001384135	-0.001086887
ALUMINUM	308.215	Radial	252.0628	6.506381	6.509090	6.533835	6.476217
ANTIMONY	206.833	Axial	1.642891	0.0005688937	-0.0001295503	0.0004391595	0.001397072
BERYLLIUM	313.042	Radial	9.137366	0.0006895686	0.0006668062	0.0005556733	0.0008462264
BORON	249.678	Radial	1.513637	0.003994762	-0.003733537	-0.0008206124	0.01653844
CALCIUM	317.933	Radial	1336.472	5.324955	5.315805	5.307986	5.351075
CERIUM	535.353	Radial	42.27073	0.1032508	0.1003266	0.07051812	0.1389077
COBALT	228.616	Axial	38.40198	0.007812641	0.008025519	0.007953924	0.007458481
COPPER	324.754	Axial	848.9548	0.03913012	0.03939134	0.03926324	0.03873577
IRON	259.940	Radial	988.2034	14.43826	14.46836	14.39989	14.44652
LANTHANUM	333.749	Radial	19.00609	0.06155235	0.06635343	0.06449681	0.05380680
LITHIUM	670.784	Radial	22.32961	0.009886518	0.009156043	0.009511699	0.01099181
MAGNESIUM	279.079	Radial	89.73504	4.428137	4.364990	4.482184	4.437238
MANGANESE	257.610	Axial	25408.57	0.4405294	0.4403664	0.4423386	0.4388831
MOLYBDENUM	202.030	Axial	-1.72481	-0.0009375504	-0.001130512	-0.001058349	-0.0006237908
NICKEL	231.604	Axial	48.77048	0.01537662	0.01552673	0.01586736	0.01473578
PHOSPHORUS	177.495	Axial	93.62877	1.098367	1.095685	1.092915	1.106501
POTASSIUM	766.490	Radial	282.4529	1.036754	1.049896	1.051605	1.008760
SILICON	251.611	Axial	4592.939	3.039068	3.031788	3.047737	3.037679
SODIUM	589.592	Radial	657.5015	0.8096578	0.7877913	0.8279186	0.8132636
STRONTIUM	421.552	Radial	278.3888	0.01476938	0.01446041	0.01509256	0.01475518
SULFUR	182.034	Axial	11.64452	0.09189790	0.09416232	0.08981045	0.09172093
THALLIUM	190.856	Axial	-0.8655999	-0.00004704438	0.001301515	-0.003689853	0.002247205
TIN	189.989	Axial	-0.8978015	-0.001787645	0.001418338	-0.003547436	-0.003233836
TITANIUM	334.941	Radial	156.8165	0.1878884	0.1872380	0.1899103	0.1865169
VANADIUM	292.402	Radial	8.264017	0.03116875	0.02654904	0.03193940	0.03501780
ZINC	206.200	Axial	107.2662	0.03145405	0.03135203	0.03144526	0.03156484

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/13/25 21:37 Sequence: 262 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12479.46	12480.04	12486.55	12471.80
YTTRIUM	360.073	Axial	189852.5	189342.3	190790.3	189425.1
YTTRIUM	360.073	Radial	3037.657	3017.192	3050.563	3045.216
INDIUM	230.606	Axial	4864.741	4859.031	4865.528	4869.664

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	385.6021	10.14474	10.08654	10.18558	10.16211
ANTIMONY	206.833	Axial	203.6297	0.5095759	0.5114173	0.5107597	0.5065507
ARSENIC	189.042	Axial	216.8088	1.008880	1.008799	1.005271	1.012570
BARIUM	233.527	Axial	2396.123	0.5323837	0.5327150	0.5316179	0.5328184
BERYLLIUM	313.042	Radial	2683.718	0.1999734	0.1994995	0.1990917	0.2013291
BORON	249.678	Radial	54.25644	0.9676483	0.9534387	0.9517898	0.9977165
CADMIUM	228.802	Axial	5041.512	0.5091222	0.5088013	0.5091585	0.5094068
CALCIUM	317.933	Radial	10876.20	48.91877	49.00659	48.84464	48.90507
CHROMIUM	267.716	Axial	10762.00	1.040312	1.037314	1.038013	1.045610
COBALT	228.616	Axial	5044.474	0.9846876	0.9857259	0.9853079	0.9830289
COPPER	324.754	Axial	15364.54	0.9995439	0.9974967	0.9973583	1.003777
IRON	259.940	Radial	647.9669	9.659451	9.661617	9.641654	9.675081
LEAD	220.353	Axial	421.1061	0.4898196	0.4893552	0.4888102	0.4912934
LITHIUM	670.784	Radial	5083.126	1.023918	1.019383	1.022799	1.029573
MAGNESIUM	279.079	Radial	193.0638	9.607019	9.477107	9.685439	9.658511
MANGANESE	257.610	Axial	56695.99	1.029199	1.029296	1.026798	1.031502
MOLYBDENUM	202.030	Axial	566.9123	0.2611921	0.2614515	0.2591108	0.2630140
NICKEL	231.604	Axial	2378.803	0.9872586	0.9878533	0.9887349	0.9851875
PHOSPHORUS	177.495	Axial	82.87440	1.014190	1.017862	1.005322	1.019385
POTASSIUM	766.490	Radial	12967.35	50.26929	50.26940	50.19572	50.34276
SELENIUM	196.090	Axial	162.6074	1.009490	1.012746	1.003995	1.011728
SILICON	251.611	Axial	2927.537	2.027422	2.020524	2.020067	2.041675
SILVER	328.068	Axial	7902.498	0.5284844	0.5282561	0.5266174	0.5305797
SODIUM	589.592	Radial	38667.12	51.16602	51.12155	51.18467	51.19184
STRONTIUM	421.552	Radial	18749.53	1.016632	1.012279	1.018360	1.019256
SULFUR	182.034	Axial	452.9155	4.895819	4.858915	4.873727	4.954814
THALLIUM	190.856	Axial	202.2651	1.018219	1.016267	1.013930	1.024462
TIN	189.989	Axial	171.4346	0.5270955	0.5254521	0.5279370	0.5278975
TITANIUM	334.941	Radial	823.0186	1.015736	1.007227	1.025666	1.014315
VANADIUM	292.402	Radial	294.8671	0.9933403	0.9957047	0.9885571	0.9957592
ZINC	206.200	Axial	3043.206	1.026706	1.029331	1.026786	1.024000
CERIUM	535.353	Radial	32.56945	0.03314667	-0.06040078	0.1279688	0.03187195
HOT WATER SOL. BORON	249.678	Radial	54.25644	0.9676483	0.9534387	0.9517898	0.9977165
LANTHANUM	333.749	Radial	1.229228	-0.0002319859	0.0003611566	-0.008522941	0.007465826

Sample ID: CCB Units: mg/l
Analyzed: 03/13/25 21:40 Sequence: 263

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12953.56	12945.85	12952.23	12962.59
YTTRIUM	360.073	Axial	199161.1	198657.9	199285.0	199540.2
YTTRIUM	360.073	Radial	3065.387	3065.341	3070.146	3060.675
INDIUM	230.606	Axial	5395.889	5420.031	5427.115	5340.521

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-1.72133	-0.02448040	0.03290544	-0.08419916	-0.02214748
ANTIMONY	206.833	Axial	1.633398	0.0005356116	0.0005999267	0.001844160	-0.0008372515
ARSENIC	189.042	Axial	0.3339736	0.001235658	0.001926335	0.005040413	-0.003259773
BARIUM	233.527	Axial	-1.25156	0.0002892280	0.0001478919	0.0003674543	0.0003523379
BERYLLIUM	313.042	Radial	2.277398	0.0001902331	0.0002312085	0.0001326079	0.0002068830
BORON	249.678	Radial	-0.2777315	-0.02814215	-0.05025471	-0.01558742	-0.01858430
CADMIUM	228.802	Axial	-11.8581	-0.0001564720	0.00007567548	-0.0002536658	-0.0002914255
CALCIUM	317.933	Radial	139.7545	-0.01257936	-0.006170009	-0.01230175	-0.01926632
CERIUM	535.353	Radial	29.96723	0.01083150	0.003633470	0.06521929	-0.03635827
CHROMIUM	267.716	Axial	-2.63392	0.0006807682	0.001229384	0.0003487861	0.0004641345
COBALT	228.616	Axial	-2.78010	0.0003328392	0.0002250435	0.0001696819	0.0006037921
COPPER	324.754	Axial	242.0552	0.0008529818	0.0009933893	0.0008083604	0.0007571959
HOT WATER SOL. BORON	249.678	Radial	-0.2777315	-0.02814215	-0.05025471	-0.01558742	-0.01858430
IRON	259.940	Radial	0.2013553	0.0009664719	-0.0007777015	0.001678731	0.001998387
LANTHANUM	333.749	Radial	-3.01801	-0.01522333	-0.01536048	-0.02159131	-0.008718203
LEAD	220.353	Axial	-0.3997073	-0.0003670460	0.0006274985	-0.001382610	-0.0003460264
LITHIUM	670.784	Radial	-28.9812	-0.0002545556	0.0004051192	0.0002066326	-0.001375419
MAGNESIUM	279.079	Radial	-1.74970	0.009848433	-0.05931958	0.03434107	0.05452381
MANGANESE	257.610	Axial	9.004049	0.0002101144	0.0003834718	0.0001482687	0.00009860260
MOLYBDENUM	202.030	Axial	0.03696063	-0.0001527819	-0.0004652124	0.0001070722	-0.0001002055
NICKEL	231.604	Axial	11.32802	0.0006653488	0.0005755922	0.0008598442	0.0005606100
PHOSPHORUS	177.495	Axial	-9.02797	-0.002443264	-0.007440887	-0.003351747	0.003462842
POTASSIUM	766.490	Radial	6.485030	-0.01215012	0.02041985	-0.02412430	-0.03274592
SELENIUM	196.090	Axial	1.122119	0.0003609371	-0.005875792	0.004084244	0.002874359
SILICON	251.611	Axial	11.21192	0.004708070	0.006780011	0.004427098	0.002917100
SILVER	328.068	Axial	0.2416662	-0.0007434195	-0.0008436216	-0.0004788931	-0.0009077439
SODIUM	589.592	Radial	197.6476	0.2156692	0.2362192	0.2118163	0.1989722
STRONTIUM	421.552	Radial	1.573812	0.00006052032	-0.0000001829622	0.00007577112	0.0001059728
SULFUR	182.034	Axial	4.610296	0.01784188	0.01866103	0.01991683	0.01494779
THALLIUM	190.856	Axial	-0.2974539	0.002673946	0.002727173	0.0001185686	0.005176095
TIN	189.989	Axial	0.1652195	0.001360755	0.003544923	-0.00008688814	0.0006242285
TITANIUM	334.941	Radial	1.351627	-0.0005370565	0.001890289	-0.002670511	-0.0008309466
VANADIUM	292.402	Radial	-3.83294	-0.008749045	-0.008613652	-0.01246702	-0.005166465
ZINC	206.200	Axial	7.428875	-0.001209481	-0.001130124	-0.0009695671	-0.001528752

Sample ID: ICSA-3 Units: mg/l
Analyzed: 03/13/25 22:02 Sequence: 271 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11220.88	11204.92	11240.01	11217.70
YTTRIUM	360.073	Axial	169659.8	169373.5	169402.2	170203.6
YTTRIUM	360.073	Radial	2873.960	2890.629	2857.459	2873.793
INDIUM	230.606	Axial	4089.091	4083.607	4094.696	4088.970

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	17931.19	497.6615	494.6562	499.2132	499.1150
ANTIMONY	206.833	Axial	-0.6597713	-0.005276105	-0.001474560	-0.005646215	-0.008707539
ARSENIC	189.042	Axial	-0.8776670	-0.004802740	-0.0008187283	-0.008306740	-0.005282750
BARIUM	233.527	Axial	2.541207	0.001183801	0.0008085797	0.001543794	0.001199030
BERYLLIUM	313.042	Radial	-2.24680	-0.0001540340	-0.0002974959	0.0001471027	-0.0003117087
BORON	249.678	Radial	-0.1951225	-0.02678649	-0.05348389	-0.004563017	-0.02231255
CADMIUM	228.802	Axial	-7.35205	0.0001708045	0.0001996711	0.0001238348	0.0001889075
CALCIUM	373.690	Radial	88868.28	504.4829	501.1253	505.7149	506.6085
CERIUM	535.353	Radial	-16.0168	-0.3562627	-0.2933389	-0.4590571	-0.3163922
CHROMIUM	267.716	Axial	4.464768	0.001405355	0.001643462	0.001309607	0.001262995
COBALT	228.616	Axial	7.929722	0.002660062	0.002597875	0.003028550	0.002353761
COPPER	324.754	Axial	-19.2004	-0.01579360	-0.01599360	-0.01671851	-0.01466870
HOT WATER SOL. BORON	249.678	Radial	-0.1951225	-0.02678649	-0.05348389	-0.004563017	-0.02231255
IRON	271.441	Radial	1602.190	194.0708	192.4307	195.2293	194.5524
LANTHANUM	333.749	Radial	-2.28884	-0.01324557	0.00005865036	-0.02374853	-0.01604684
LEAD	220.353	Axial	-6.91740	-0.009519836	-0.01052530	-0.01055155	-0.007482666
LITHIUM	670.784	Radial	54.94332	0.01713941	0.01725866	0.01934092	0.01481865
MAGNESIUM	279.079	Radial	9344.047	486.7126	481.4208	489.8750	488.8418
MANGANESE	257.610	Axial	59.65546	0.001265844	0.001325113	0.001217905	0.001254515
MOLYBDENUM	202.030	Axial	0.8200338	0.0002524458	0.0006167834	-0.001226394	0.001366948
NICKEL	231.604	Axial	19.12001	0.005886226	0.005627613	0.006676843	0.005354223
PHOSPHORUS	177.495	Axial	-7.04613	0.007115582	0.002918676	0.009803693	0.008624376
POTASSIUM	766.490	Radial	-94.6447	-0.4253223	-0.3815628	-0.4652864	-0.4291177
SELENIUM	196.090	Axial	0.5872628	-0.002316401	0.001806972	0.008565002	-0.01732118
SILICON	251.611	Axial	-14.0521	-0.01360823	-0.01268381	-0.01298300	-0.01515790
SILVER	328.068	Axial	-25.7546	-0.002689109	-0.003233717	-0.002245860	-0.002587750
SODIUM	589.592	Radial	260.0375	0.3203000	0.3227660	0.3295503	0.3085836
STRONTIUM	421.552	Radial	131.3084	0.007500708	0.007772215	0.007349394	0.007380516
SULFUR	182.034	Axial	0.8690668	-0.01995209	-0.01730158	-0.02443424	-0.01812046
THALLIUM	190.856	Axial	-1.14957	-0.002849289	-0.002377450	-0.009217002	0.003046586
TIN	189.989	Axial	-0.8244690	-0.001939024	-0.0001176870	-0.006858204	0.001158819
TITANIUM	334.941	Radial	35.66763	0.04443315	0.04450171	0.04398691	0.04481085
VANADIUM	292.402	Radial	-11.4785	-0.03673900	-0.02993150	-0.04226099	-0.03802452
ZINC	206.200	Axial	61.22864	0.01942238	0.01966783	0.01998683	0.01861248

Sample ID: ICSAB-3 Units: mg/l
Analyzed: 03/13/25 22:05 Sequence: 272 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11303.46	11337.25	11308.87	11264.26
YTTRIUM	360.073	Axial	170791.2	170300.3	171283.3	170789.8
YTTRIUM	360.073	Radial	2886.906	2888.843	2901.505	2870.370
INDIUM	230.606	Axial	4088.448	4078.949	4110.635	4075.761

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	18233.28	503.7733	503.4554	502.2914	505.5731
ANTIMONY	206.833	Axial	183.0959	0.5058383	0.5021156	0.5104172	0.5049821
ARSENIC	189.042	Axial	99.29114	0.5099793	0.5028680	0.5158806	0.5111892
BARIUM	233.527	Axial	2155.431	0.5287395	0.5246358	0.5312362	0.5303466
BERYLLIUM	313.042	Radial	6315.811	0.4951662	0.4942236	0.4935670	0.4977079
BORON	249.678	Radial	50.99450	0.9568297	0.9312299	0.9478970	0.9913620
CADMIUM	228.802	Axial	9432.324	1.050580	1.045384	1.053406	1.052951
CALCIUM	373.690	Radial	90122.82	509.3111	509.5136	506.5830	511.8365
CERIUM	535.353	Radial	-2.58122	-0.2442476	-0.2689362	-0.1946814	-0.2691252
CHROMIUM	267.716	Axial	4691.403	0.5045795	0.5025403	0.5053302	0.5058680
COBALT	228.616	Axial	2110.100	0.4905175	0.4912139	0.4892492	0.4910893
COPPER	324.754	Axial	7358.966	0.5254486	0.5271239	0.5245581	0.5246638
HOT WATER SOL. BORON	249.678	Radial	50.99450	0.9568297	0.9312299	0.9478970	0.9913620
IRON	271.441	Radial	1602.284	193.2100	192.7683	192.4676	194.3942
LANTHANUM	333.749	Radial	-2.54113	-0.01411689	-0.01031153	-0.01284974	-0.01918941
LEAD	220.353	Axial	700.4465	0.9693822	0.9641443	0.9727523	0.9712501
LITHIUM	670.784	Radial	65.52615	0.01931744	0.02309760	0.01621479	0.01863992
MAGNESIUM	279.079	Radial	9522.898	493.7920	492.9704	492.6701	495.7354
MANGANESE	257.610	Axial	24950.99	0.5035105	0.5035081	0.5018009	0.5052224
MOLYBDENUM	202.030	Axial	991.3756	0.5044415	0.4967775	0.5083956	0.5081516
NICKEL	231.604	Axial	1992.736	0.9840526	0.9837733	0.9838880	0.9844964
PHOSPHORUS	177.495	Axial	-7.29969	0.004627192	0.01268686	0.006233192	-0.005038480
POTASSIUM	766.490	Radial	-87.2670	-0.3932453	-0.3965057	-0.4077776	-0.3754526
SELENIUM	196.090	Axial	72.94422	0.4967103	0.5060655	0.5003556	0.4837097
SILICON	251.611	Axial	1316.373	1.012010	1.007216	1.014111	1.014703
SILVER	328.068	Axial	11541.23	0.8584361	0.8621119	0.8593673	0.8538291
SODIUM	589.592	Radial	303.7138	0.3795615	0.3557775	0.3819797	0.4009275
STRONTIUM	421.552	Radial	135.7287	0.007719905	0.007676705	0.007765245	0.007717764
SULFUR	182.034	Axial	1.280697	-0.01507326	-0.01891599	-0.02140232	-0.004901460
THALLIUM	190.856	Axial	82.19275	0.4943942	0.4806601	0.4972059	0.5053164
TIN	189.989	Axial	145.1342	0.4927251	0.4873100	0.4933910	0.4974741
TITANIUM	334.941	Radial	421.4593	0.5463244	0.5458723	0.5438249	0.5492761
VANADIUM	292.402	Radial	124.3662	0.4430612	0.4447709	0.4402085	0.4442042
ZINC	206.200	Axial	2593.185	0.9656913	0.9624633	0.9671514	0.9674592

Sample ID: CALBLK Units: mg/l
Analyzed: 03/13/25 17:37 Sequence: 2 Standard ID: 25C10350

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5110.787	5136.931	5063.012	5132.419
YTTRIUM	360.073	Axial	56574.09	57333.47	56355.05	56033.74
YTTRIUM	360.073	Radial	5111.399	5087.772	5146.217	5100.209
INDIUM	230.606	Axial	1313.934	1316.559	1315.792	1309.451

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	-3.21053	-3.904493	-0.7244827	-5.002635
ANTIMONY	206.833	Axial	0.7586870	0.1049681	1.430982	0.7401114
ARSENIC	189.042	Axial	1.821728	2.666205	1.400841	1.398138
BARIUM	233.527	Axial	-5.53825	-5.169981	-6.027159	-5.417618
BERYLLIUM	313.042	Radial	1.081179	1.301224	0.9864716	0.9558412
BORON	249.678	Radial	0.4963020	-0.6989798	0.5633338	1.624552
CADMIUM	228.802	Axial	-1.85881	-0.2467389	-2.470245	-2.859447
CALCIUM	317.933	Radial	22.01171	22.80351	21.64528	21.58633
CALCIUM	373.690	Radial	1.005492	-0.5817450	4.529308	-0.9310877
CERIUM	535.353	Radial	11.10346	13.59699	12.17671	7.536678
CHROMIUM	267.716	Axial	5.231393	3.407831	3.640039	8.646310
COBALT	228.616	Axial	-1.33017	-0.6478793	-0.2022891	-3.140340
COPPER	324.754	Axial	-4.79464	-9.397831	-1.109708	-3.876397
IRON	259.940	Radial	3.095461	3.762990	3.122948	2.400445
IRON	271.441	Radial	1.668765	2.114552	1.063558	1.828185
LANTHANUM	333.749	Radial	-0.5339109	-0.6203018	1.167534	-2.148965
LEAD	220.353	Axial	0.4370073	0.8438320	-0.02132185	0.4885118
LITHIUM	670.784	Radial	37.58883	37.17376	38.18870	37.40403
MAGNESIUM	279.079	Radial	-2.33891	-2.938003	-2.807444	-1.271295
MANGANESE	257.610	Axial	-2.55460	-4.481781	-2.296546	-0.8854943
MOLYBDENUM	202.030	Axial	0.5873389	1.479493	0.5191855	-0.2366615
NICKEL	231.604	Axial	-1.24546	-1.604961	-0.1404613	-1.990976
PHOSPHORUS	177.495	Axial	2.197178	2.414756	2.058636	2.118142
POTASSIUM	766.490	Radial	-27.2333	-25.06927	-24.98859	-31.64218
SELENIUM	196.090	Axial	0.8526855	1.288608	1.455883	-0.1864346
SILICON	251.611	Axial	6.224343	5.654274	6.946391	6.072364
SILVER	328.068	Axial	-13.6001	-19.44211	-10.80549	-10.55284
SODIUM	589.592	Radial	-61.0601	-53.53525	-66.49285	-63.15233
SODIUM	818.326	Radial	21.20514	24.15999	15.93201	23.52343
STRONTIUM	421.552	Radial	1.159332	2.769046	-0.4134779	1.122428
SULFUR	182.034	Axial	4.061333	4.171847	3.849654	4.162499
THALLIUM	190.856	Axial	0.4906628	0.6908344	0.5669313	0.2142226
TIN	189.989	Axial	-0.2293563	-0.1184624	-0.2076679	-0.3619385
TITANIUM	334.941	Radial	-3.13063	-3.247168	-3.496151	-2.648585
VANADIUM	292.402	Radial	-0.03161732	-0.05723312	0.1067250	-0.1443438
ZINC	206.200	Axial	113.8127	113.7982	113.2589	114.3809

Sample ID: STD1 Units: mg/l
Analyzed: 03/13/25 17:38 Sequence: 3 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5083.906	5122.118	5130.254	4999.346
YTTRIUM	360.073	Axial	56156.52	56558.65	56253.04	55657.88
YTTRIUM	360.073	Radial	5076.962	5042.479	5119.862	5068.547
INDIUM	230.606	Axial	1284.826	1292.172	1285.817	1276.489

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	7.652694	7.018348	7.288849	8.650886
ANTIMONY	206.833	Axial	1.884109	2.507849	0.8263353	2.318141
ARSENIC	189.042	Axial	3.913664	3.583720	4.009616	4.147658
BARIUM	233.527	Axial	24.11958	24.14412	24.25803	23.95661
BERYLLIUM	313.042	Radial	34.42190	34.54601	34.43825	34.28143
BORON	249.678	Radial	43.09143	44.53433	42.53106	42.20889
CADMIUM	228.802	Axial	1.721958	2.387641	0.4519094	2.326323
CALCIUM	317.933	Radial	252.5405	253.0227	251.2325	253.3663
CHROMIUM	267.716	Axial	28.82951	28.44997	28.74989	29.28868
COBALT	228.616	Axial	7.373134	6.622032	6.448347	9.049023
COPPER	324.754	Axial	46.54987	45.50072	47.43917	46.70971
IRON	259.940	Radial	27.02599	26.98456	27.28839	26.80503
LEAD	220.353	Axial	2.537863	2.972099	1.396353	3.245137
LITHIUM	670.784	Radial	55.10487	62.73722	52.37033	50.20705
MAGNESIUM	279.079	Radial	87.55140	86.55584	86.93222	89.16614
MANGANESE	257.610	Axial	196.4133	195.3025	199.4088	194.5287
MOLYBDENUM	202.030	Axial	3.464252	2.984179	2.502992	4.905586
NICKEL	231.604	Axial	8.653013	8.090866	8.392655	9.475519
PHOSPHORUS	177.495	Axial	19.89834	20.02959	19.75119	19.91424
POTASSIUM	766.490	Radial	77.12513	78.21160	72.39120	80.77259
SELENIUM	196.090	Axial	2.000597	1.914032	1.478886	2.608873
SILICON	251.611	Axial	202.8097	200.2334	204.4680	203.7276
SILVER	328.068	Axial	7.331826	8.193454	10.40221	3.399809
SODIUM	589.592	Radial	340.8182	342.7018	340.6733	339.0795
STRONTIUM	421.552	Radial	108.6797	106.7083	110.3507	108.9801
SULFUR	182.034	Axial	55.56224	55.01096	55.34241	56.33335
THALLIUM	190.856	Axial	2.226148	1.605944	2.403161	2.669337
TIN	189.989	Axial	19.98221	21.02890	19.67128	19.24647
TITANIUM	334.941	Radial	81.01493	80.93114	80.54869	81.56497
VANADIUM	292.402	Radial	13.10299	13.07374	13.13418	13.10106
ZINC	206.200	Axial	230.3799	229.6229	230.4443	231.0725

Sample ID: STD2 Units: mg/l
Analyzed: 03/13/25 17:40 Sequence: 4 Standard ID: 25C13924

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5254.637	5217.672	5284.497	5261.741
YTTRIUM	360.073	Axial	57599.05	57167.41	57703.77	57925.96
YTTRIUM	360.073	Radial	5138.723	5141.725	5132.855	5141.589
INDIUM	230.606	Axial	1303.610	1288.112	1313.141	1309.577

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	108.9095	111.3104	107.0296	108.3886
ANTIMONY	206.833	Axial	13.58247	13.66468	13.69936	13.38337
ARSENIC	189.042	Axial	40.14158	38.99178	40.46670	40.96626
BARIUM	233.527	Axial	605.5210	602.2061	604.0878	610.2692
BERYLLIUM	313.042	Radial	643.5611	643.7866	644.8664	642.0302
CADMIUM	228.802	Axial	222.5552	219.9534	222.9037	224.8084
CALCIUM	317.933	Radial	2315.103	2312.948	2305.895	2326.465
CHROMIUM	267.716	Axial	476.9434	471.4691	481.5533	477.8079
COBALT	228.616	Axial	192.9892	190.9778	194.3608	193.6290
COPPER	324.754	Axial	971.1713	970.5385	972.3721	970.6033
IRON	259.940	Radial	499.6818	497.3185	499.1501	502.5768
LEAD	220.353	Axial	46.82412	44.60990	47.80681	48.05565
LITHIUM	670.784	Radial	239.1835	241.7829	236.8235	238.9442
MAGNESIUM	279.079	Radial	177.0206	176.8019	175.8055	178.4542
MANGANESE	257.610	Axial	4373.800	4344.442	4376.591	4400.366
MOLYBDENUM	202.030	Axial	30.83330	29.35555	32.67052	30.47382
NICKEL	231.604	Axial	176.0606	174.4549	178.3995	175.3275
PHOSPHORUS	177.495	Axial	38.49139	37.95701	38.97489	38.54227
POTASSIUM	766.490	Radial	973.6189	972.0168	973.1357	975.7043
SELENIUM	196.090	Axial	30.53190	29.70880	31.89359	29.99330
SILICON	251.611	Axial	418.0913	412.8063	416.7429	424.7246
SILVER	328.068	Axial	411.3550	409.1193	415.6826	409.2632
SODIUM	589.592	Radial	3782.678	3763.303	3784.874	3799.856
STRONTIUM	421.552	Radial	2191.700	2194.814	2181.564	2198.722
THALLIUM	190.856	Axial	35.68690	35.31169	35.81533	35.93368
TIN	189.989	Axial	39.83566	39.31288	39.44744	40.74665
TITANIUM	334.941	Radial	336.4399	336.9674	334.6070	337.7455
VANADIUM	292.402	Radial	122.6130	123.2049	122.5116	122.1224
ZINC	206.200	Axial	570.4686	565.4546	571.2704	574.6808

Sample ID: STD3 Units: mg/l
Analyzed: 03/13/25 17:42 Sequence: 5 Standard ID: 25C13926

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5296.515	5338.308	5285.087	5266.151
YTTRIUM	360.073	Axial	57366.24	57694.92	57360.49	57043.32
YTTRIUM	360.073	Radial	5081.518	5101.804	5084.107	5058.645
INDIUM	230.606	Axial	1292.719	1301.580	1296.634	1279.942

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	217.3649	219.9486	218.9153	213.2309
ANTIMONY	206.833	Axial	27.48174	27.87957	26.72219	27.84345
ARSENIC	189.042	Axial	79.16137	79.75797	79.69464	78.03151
BARIUM	233.527	Axial	1212.060	1215.716	1214.706	1205.758
BERYLLIUM	313.042	Radial	1276.958	1279.232	1277.702	1273.940
BORON	249.678	Radial	83.82939	83.04644	85.49050	82.95123
CADMIUM	228.802	Axial	438.2722	439.2793	438.1744	437.3630
CALCIUM	317.933	Radial	4572.383	4588.250	4574.626	4554.272
CHROMIUM	267.716	Axial	952.0758	953.5475	954.1483	948.5316
COBALT	228.616	Axial	386.0764	387.4327	385.4410	385.3555
COPPER	324.754	Axial	1898.974	1896.770	1897.167	1902.984
IRON	259.940	Radial	985.5407	987.7470	977.8594	991.0157
LEAD	220.353	Axial	92.92922	92.23014	92.21667	94.34086
LITHIUM	670.784	Radial	435.9515	442.5863	442.3604	422.9077
MAGNESIUM	279.079	Radial	351.0908	352.3068	351.8641	349.1015
MANGANESE	257.610	Axial	8681.983	8689.387	8717.361	8639.201
MOLYBDENUM	202.030	Axial	57.93559	58.31691	59.13934	56.35051
NICKEL	231.604	Axial	350.5047	350.7199	353.3315	347.4626
PHOSPHORUS	177.495	Axial	76.38690	75.36563	77.40765	76.38743
POTASSIUM	766.490	Radial	1961.655	1962.562	1961.348	1961.054
SELENIUM	196.090	Axial	59.85195	60.72947	61.01251	57.81387
SILICON	251.611	Axial	813.2018	810.1714	814.1711	815.2628
SILVER	328.068	Axial	832.7613	827.1913	838.0672	833.0254
SODIUM	589.592	Radial	7439.446	7490.029	7437.534	7390.775
SODIUM	818.326	Radial	177.5512	176.9423	179.2391	176.4722
STRONTIUM	421.552	Radial	4314.208	4321.932	4355.576	4265.117
SULFUR	182.034	Axial	107.5592	107.5751	108.1815	106.9210
THALLIUM	190.856	Axial	70.73747	71.19658	71.39888	69.61695
TIN	189.989	Axial	78.37944	78.93961	78.70970	77.48900
TITANIUM	334.941	Radial	666.9516	671.0273	667.2123	662.6151
VANADIUM	292.402	Radial	241.9675	240.9532	243.6197	241.3294
ZINC	206.200	Axial	1005.545	1010.750	1006.200	999.6854

Sample ID: STD4 Units: mg/l
Analyzed: 03/13/25 17:43 Sequence: 6 Standard ID: 25C13927

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5217.290	5248.774	5170.366	5232.730
YTTRIUM	360.073	Axial	56288.26	56283.42	56000.63	56580.71
YTTRIUM	360.073	Radial	5111.490	5130.597	5137.650	5066.223
INDIUM	230.606	Axial	1249.129	1256.627	1236.387	1254.373

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	549.7947	549.4846	552.3121	547.5874
ANTIMONY	206.833	Axial	66.28413	66.00115	66.17008	66.68117
ARSENIC	189.042	Axial	194.0208	194.8139	192.1787	195.0699
BARIUM	233.527	Axial	2995.789	2985.040	2996.635	3005.691
BERYLLIUM	313.042	Radial	3194.178	3183.111	3211.855	3187.566
BORON	249.678	Radial	207.3142	205.7139	208.7414	207.4874
CADMIUM	228.802	Axial	1079.360	1072.073	1084.314	1081.692
CALCIUM	317.933	Radial	11245.78	11264.49	11291.82	11181.03
CALCIUM	373.690	Radial	5103.710	5094.431	5137.651	5079.050
CHROMIUM	267.716	Axial	2349.398	2351.876	2342.844	2353.474
COBALT	228.616	Axial	956.1092	952.2565	956.3642	959.7069
COPPER	324.754	Axial	4623.278	4607.732	4621.190	4640.913
IRON	259.940	Radial	2478.718	2482.013	2510.862	2443.279
IRON	271.441	Radial	193.1097	192.4392	196.1649	190.7250
LEAD	220.353	Axial	223.8979	222.9924	221.8021	226.8992
LITHIUM	670.784	Radial	1032.734	1016.199	1034.114	1047.888
MAGNESIUM	279.079	Radial	875.0647	873.4747	880.5173	871.2021
MANGANESE	257.610	Axial	21517.12	21338.78	21526.66	21685.93
MOLYBDENUM	202.030	Axial	143.4600	143.5567	142.9295	143.8939
NICKEL	231.604	Axial	868.2799	869.1200	865.0455	870.6742
PHOSPHORUS	177.495	Axial	185.9498	187.6512	187.5107	182.6875
POTASSIUM	766.490	Radial	4875.909	4889.189	4903.602	4834.937
SELENIUM	196.090	Axial	147.8087	147.9441	148.1563	147.3256
SILICON	251.611	Axial	2025.913	2011.939	2022.693	2043.108
SILVER	328.068	Axial	1945.236	1948.619	1942.223	1944.865
SODIUM	818.326	Radial	413.0074	417.6918	414.7292	406.6012
STRONTIUM	421.552	Radial	10618.78	10576.57	10641.21	10638.56
SULFUR	182.034	Axial	253.7850	254.7886	254.5078	252.0587
THALLIUM	190.856	Axial	169.0123	170.0606	168.5650	168.4113
TIN	189.989	Axial	191.1400	193.8206	187.5289	192.0707
TITANIUM	334.941	Radial	1659.001	1658.726	1660.481	1657.796
VANADIUM	292.402	Radial	604.8988	601.7064	606.5149	606.4751
ZINC	206.200	Axial	2361.639	2355.858	2351.825	2377.233

Sample ID: STD5 Units: mg/l
Analyzed: 03/13/25 17:45 Sequence: 7 Standard ID: 25C13929

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5160.063	5155.005	5156.720	5168.464
YTTRIUM	360.073	Axial	55102.86	54727.78	54900.76	55680.04
YTTRIUM	360.073	Radial	5067.403	5013.726	5086.822	5101.660
INDIUM	230.606	Axial	1215.366	1217.382	1203.419	1225.298

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1099.895	1089.190	1107.413	1103.083
ANTIMONY	206.833	Axial	128.7190	128.2034	128.6312	129.3226
ARSENIC	189.042	Axial	382.9252	382.8887	382.6446	383.2424
BARIUM	233.527	Axial	5901.154	5850.667	5875.435	5977.361
BERYLLIUM	313.042	Radial	6358.636	6316.151	6360.098	6399.658
BORON	249.678	Radial	416.1578	413.1188	418.2463	417.1082
CADMIUM	228.802	Axial	2135.555	2108.916	2133.413	2164.336
CALCIUM	373.690	Radial	10066.29	9943.878	10124.60	10130.41
CHROMIUM	267.716	Axial	4698.616	4645.781	4724.800	4725.267
COBALT	228.616	Axial	1897.208	1871.678	1898.853	1921.093
COPPER	324.754	Axial	8968.501	8829.324	8965.803	9110.374
IRON	271.441	Radial	376.4740	371.5084	382.9606	374.9529
LEAD	220.353	Axial	436.8028	433.0266	434.9039	442.4779
LITHIUM	670.784	Radial	2105.025	2105.477	2070.017	2139.582
MAGNESIUM	279.079	Radial	1742.318	1728.157	1752.524	1746.272
MANGANESE	257.610	Axial	42584.92	42067.94	42597.71	43089.12
MOLYBDENUM	202.030	Axial	282.1636	278.3281	282.5191	285.6437
NICKEL	231.604	Axial	1737.806	1725.470	1742.971	1744.978
PHOSPHORUS	177.495	Axial	371.5585	368.5367	367.3725	378.7664
POTASSIUM	766.490	Radial	9730.784	9609.635	9811.827	9770.890
SELENIUM	196.090	Axial	293.2615	293.0253	293.0648	293.6945
SILICON	251.611	Axial	3955.871	3918.897	3924.411	4024.305
SILVER	328.068	Axial	3671.744	3612.971	3692.666	3709.595
SODIUM	818.326	Radial	807.6403	805.3309	809.4250	808.1649
STRONTIUM	421.552	Radial	21017.13	20892.40	20800.83	21358.14
SULFUR	182.034	Axial	516.8790	514.2789	519.4198	516.9382
THALLIUM	190.856	Axial	326.7859	325.3438	326.8239	328.1901
TIN	189.989	Axial	381.8100	380.0867	383.7811	381.5622
TITANIUM	334.941	Radial	3340.472	3323.318	3343.615	3354.484
VANADIUM	292.402	Radial	1206.521	1194.773	1212.180	1212.611
ZINC	206.200	Axial	4498.743	4495.822	4424.536	4575.872

Sample ID: STD6 Units: mg/l
Analyzed: 03/13/25 17:47 Sequence: 8 Standard ID: 25C13930

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5154.095	5152.951	5149.606	5159.728
YTTRIUM	360.073	Axial	54266.02	54269.34	54259.64	54269.07
YTTRIUM	360.073	Radial	5090.654	5185.982	5045.763	5040.216
INDIUM	230.606	Axial	1188.007	1189.830	1185.691	1188.501

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	2217.045	2237.071	2215.904	2198.161
ANTIMONY	206.833	Axial	253.7343	252.8550	254.0606	254.2873
ARSENIC	189.042	Axial	756.4818	749.6881	759.1071	760.6501
BARIUM	233.527	Axial	11625.82	11526.85	11668.37	11682.23
BERYLLIUM	313.042	Radial	12746.82	12888.21	12778.90	12573.35
BORON	249.678	Radial	832.9562	840.4015	829.4888	828.9783
CADMIUM	228.802	Axial	4242.282	4213.758	4254.711	4258.376
CALCIUM	373.690	Radial	20038.01	20250.61	20020.25	19843.18
CERIUM	535.353	Radial	884.4713	889.6912	888.0830	875.6396
CHROMIUM	267.716	Axial	9278.469	9190.615	9282.506	9362.287
COBALT	228.616	Axial	3778.091	3742.124	3789.087	3803.060
COPPER	324.754	Axial	17486.85	17370.59	17541.25	17548.71
IRON	271.441	Radial	761.9286	776.4607	752.1393	757.1858
LANTHANUM	333.749	Radial	5263.318	5369.945	5212.617	5207.391
LEAD	220.353	Axial	856.3286	852.1342	859.1798	857.6720
LITHIUM	670.784	Radial	4378.576	4338.937	4448.233	4348.556
MAGNESIUM	279.079	Radial	3481.034	3514.073	3472.652	3456.376
MANGANESE	257.610	Axial	84491.15	83876.01	84924.29	84673.16
MOLYBDENUM	202.030	Axial	552.0309	547.8788	552.6368	555.5773
NICKEL	231.604	Axial	3451.147	3433.488	3448.265	3471.688
PHOSPHORUS	177.495	Axial	728.3392	718.6359	737.3945	728.9871
POTASSIUM	766.490	Radial	19400.85	19536.48	19309.82	19356.26
SELENIUM	196.090	Axial	582.0120	575.5224	584.9623	585.5514
SILICON	251.611	Axial	7770.182	7727.009	7756.515	7827.022
SILVER	328.068	Axial	7199.126	7123.510	7270.886	7202.983
SODIUM	818.326	Radial	1597.797	1601.396	1600.778	1591.217
STRONTIUM	421.552	Radial	42040.94	41941.94	42450.82	41730.06
SULFUR	182.034	Axial	1024.972	1011.788	1030.381	1032.747
THALLIUM	190.856	Axial	621.2017	616.9806	623.5538	623.0707
TIN	189.989	Axial	744.6655	737.5223	743.3905	753.0837
TITANIUM	334.941	Radial	6653.718	6692.114	6683.641	6585.398
VANADIUM	292.402	Radial	2423.256	2445.622	2419.536	2404.609
ZINC	206.200	Axial	9043.626	9078.538	9020.119	9032.220

Sample ID: STD7 Units: mg/l
Analyzed: 03/13/25 17:48 Sequence: 9 Standard ID: 25C09297

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5068.665	5111.563	5074.395	5020.037
YTTRIUM	360.073	Axial	52634.87	53283.57	52503.79	52117.24
YTTRIUM	360.073	Radial	5000.407	5043.716	4945.320	5012.186
INDIUM	230.606	Axial	1062.628	1074.058	1057.809	1056.017

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	27982.20	28019.09	28016.07	27911.45
CALCIUM	373.690	Radial	48378.21	48523.61	48258.71	48352.31
IRON	271.441	Radial	3623.762	3682.363	3575.329	3613.595
MAGNESIUM	279.079	Radial	42815.02	42890.67	42881.21	42673.17
SODIUM	818.326	Radial	4207.123	4210.175	4205.662	4205.532
SULFUR	182.034	Axial	5119.843	5098.500	5090.806	5170.224

Sample ID: ICV Units: mg/l
Analyzed: 03/13/25 17:50 Sequence: 10 Standard ID: 25C13928

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	5305.720	5344.921	5260.144	5324.783	5293.032
YTTRIUM	360.073	Axial	57573.61	57322.05	57131.97	57956.18	57884.25
YTTRIUM	360.073	Radial	5129.310	5126.270	5072.215	5152.082	5166.672
INDIUM	230.606	Axial	1290.217	1287.754	1284.578	1296.369	1292.166

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	569.1021	9.970105	9.979213	9.951401	10.04685	9.902958
ANTIMONY	206.833	Axial	134.9122	1.026768	1.018767	1.027586	1.025802	1.034919
ARSENIC	189.042	Axial	199.3757	1.014940	1.005175	1.020942	1.019992	1.013652
BARIUM	233.527	Axial	6175.612	1.028540	1.019629	1.025994	1.033154	1.035383
BERYLLIUM	313.042	Radial	16004.18	0.9964878	0.9929866	0.9971358	0.9972513	0.9985773
BORON	249.678	Radial	207.4283	0.9865305	0.9922908	0.9799158	0.9859980	0.9879172
CADMIUM	228.802	Axial	2240.849	1.025066	1.011777	1.028320	1.027414	1.032754
CALCIUM	317.933	Radial	2312.731	10.13691	10.13051	10.14685	10.14458	10.12572
CHROMIUM	267.716	Axial	2397.047	1.000183	0.9921306	0.9993452	1.002198	1.007057
COBALT	228.616	Axial	972.9172	0.9548108	0.9502363	0.9504646	0.9581371	0.9604054
COPPER	324.754	Axial	4839.334	1.040772	1.037437	1.043906	1.039735	1.042012
IRON	259.940	Radial	2534.092	10.19171	10.39038	10.07431	10.15213	10.15001
LEAD	220.353	Axial	461.9639	0.9939906	0.9861088	0.9956565	0.9941068	1.000090
LITHIUM	670.784	Radial	1031.834	0.9208975	0.8913931	0.9456480	0.9250161	0.9215328
MAGNESIUM	279.079	Radial	892.3304	10.18417	10.21688	10.13655	10.22697	10.15628
MANGANESE	257.610	Axial	21861.34	1.003855	0.9933571	1.002203	1.006383	1.013477
MOLYBDENUM	202.030	Axial	602.2459	1.054483	1.040686	1.061189	1.056957	1.059100
NICKEL	231.604	Axial	893.2800	0.9595401	0.9598855	0.9606767	0.9590818	0.9585163
PHOSPHORUS	177.495	Axial	191.0742	1.007370	1.003884	1.025942	1.006826	0.9928297
POTASSIUM	766.490	Radial	1003.018	10.50336	10.58059	10.58542	10.39108	10.45636
SELENIUM	196.090	Axial	149.2936	0.9914772	0.9848686	1.001851	0.9952417	0.9839470
SILICON	251.611	Axial	1035.467	0.9990605	0.9906151	0.9974076	1.000745	1.007474
SILVER	328.068	Axial	3825.498	0.9990674	1.006355	1.000273	0.9901160	0.9995253
SODIUM	589.592	Radial	3849.639	10.30219	10.28762	10.30511	10.29713	10.31891
STRONTIUM	421.552	Radial	4338.282	0.4089356	0.4002638	0.4141794	0.4103091	0.4109902
SULFUR	182.034	Axial	529.8188	9.824260	9.752104	9.962492	9.832817	9.749625
THALLIUM	190.856	Axial	178.9664	1.051467	1.054202	1.048985	1.044671	1.058009
TIN	189.989	Axial	401.6941	0.9944956	0.9972780	0.9966022	0.9888966	0.9952058
TITANIUM	334.941	Radial	1694.871	1.010937	1.011361	1.008841	1.011737	1.011810
VANADIUM	292.402	Radial	607.8490	0.9959103	0.9935466	0.9877198	1.000561	1.001814
ZINC	206.200	Axial	2386.678	0.9913941	0.9794162	1.001104	0.9910072	0.9940492
CERIUM	535.353	Radial	11.99867	0.009845000	0.02155318	0.02700114	0.01483602	-0.02401034
LANTHANUM	333.749	Radial	-6.69726	-0.01159552	-0.007691453	-0.01043113	-0.01318237	-0.01507712

Sample ID: ICB Units: mg/l
Analyzed: 03/13/25 18:09 Sequence: 15

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5117.302	5156.141	5135.571	5060.194
YTTRIUM	360.073	Axial	56335.43	56372.11	56014.55	56619.62
YTTRIUM	360.073	Radial	5093.549	5083.062	5110.109	5087.475
INDIUM	230.606	Axial	1305.956	1314.321	1303.518	1300.028

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.46372	-0.02202056	-0.01149158	-0.03289593	-0.02167418
ANTIMONY	206.833	Axial	0.9148227	0.001182981	0.004113749	0.002042077	-0.002606883
ARSENIC	189.042	Axial	1.208841	-0.003261422	-0.006177983	-0.0006780534	-0.002928228
BARIUM	233.527	Axial	-7.55894	-0.0003480278	-0.00008628363	-0.0004602359	-0.0004975638
BERYLLIUM	313.042	Radial	3.358318	0.0001429863	0.0001589993	0.0001526891	0.0001172707
BORON	249.678	Radial	0.6780376	0.0008920202	0.005193729	-0.002061404	-0.0004562646
CADMIUM	228.802	Axial	-1.13693	0.0003424721	0.0008033890	0.0002250164	-0.0000009891616
CALCIUM	317.933	Radial	21.23811	-0.003118587	-0.001078903	-0.0002851405	-0.007991719
CERIUM	535.353	Radial	12.39361	0.01521997	0.02256031	0.01341221	0.009687393
CHROMIUM	267.716	Axial	5.694703	0.0002046416	-0.001379800	0.001441006	0.0005527192
COBALT	228.616	Axial	-1.41347	-0.00008862529	0.0005390311	0.0008078126	-0.001612720
COPPER	324.754	Axial	-3.58892	0.0002535425	0.00009529448	0.0001158956	0.0005494375
IRON	259.940	Radial	1.967908	-0.004525332	0.0004064066	-0.007185374	-0.006797030
LANTHANUM	333.749	Radial	-1.90961	-0.002604309	-0.001133550	-0.003335473	-0.003343905
LEAD	220.353	Axial	1.052690	0.001321969	-0.0001914731	0.0004049570	0.003752423
LITHIUM	670.784	Radial	38.45424	0.0009344162	0.005212061	-0.0006520771	-0.001756735
MAGNESIUM	279.079	Radial	-1.30371	0.01178167	0.02320094	0.001572546	0.01057152
MANGANESE	257.610	Axial	-5.75267	-0.0001525680	-0.00009684888	-0.0001405614	-0.0002202938
MOLYBDENUM	202.030	Axial	0.8843256	0.0005302676	0.002425080	-0.00004193247	-0.0007923449
NICKEL	231.604	Axial	-1.48268	-0.0002559856	-0.0008947804	-0.0001455485	0.0002723720
PHOSPHORUS	177.495	Axial	1.297619	-0.004995431	-0.004348644	-0.004430134	-0.006207516
POTASSIUM	766.490	Radial	-21.7252	0.05563725	0.09562667	0.05298189	0.01830319
SELENIUM	196.090	Axial	0.9896386	0.0008992107	0.006754167	-0.001772724	-0.002283811
SILICON	251.611	Axial	4.745104	-0.001447787	-0.0009166560	-0.002421112	-0.001005595
SILVER	328.068	Axial	-15.4773	-0.0005251804	-0.0002870386	-0.0008123929	-0.0004761098
SODIUM	589.592	Radial	-59.4495	0.003636879	-0.01190415	0.01054259	0.01227220
STRONTIUM	421.552	Radial	0.4703896	-0.00006605116	-0.0001114641	0.0002293170	-0.0003160065
SULFUR	182.034	Axial	3.973683	-0.001810277	-0.0005626221	0.002147408	-0.007015617
THALLIUM	190.856	Axial	-0.1967997	-0.003981628	-0.002943680	-0.007453830	-0.001547375
TIN	189.989	Axial	-0.7409998	-0.001252598	-0.001341654	-0.001959728	-0.0004564112
TITANIUM	334.941	Radial	-4.63095	-0.0009051300	-0.00003753633	-0.001743710	-0.0009341434
VANADIUM	292.402	Radial	0.7493635	0.001292965	0.003620048	-0.0008823074	0.001141155
ZINC	206.200	Axial	113.7760	-0.00007977445	-0.0003668739	-0.0004652617	0.0005928123

Sample ID: ICVLL Units: mg/l
Analyzed: 03/13/25 18:14 Sequence: 18 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5065.039	5068.615	5051.087	5075.415
YTTRIUM	360.073	Axial	55854.04	55970.54	55447.18	56144.39
YTTRIUM	360.073	Radial	5067.054	5071.417	5116.212	5013.533
INDIUM	230.606	Axial	1281.492	1286.679	1272.496	1285.301

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	7.519787	0.1888743	0.1937235	0.1855826	0.1873168
ANTIMONY	206.833	Axial	2.196599	0.01156152	0.01372259	0.01241987	0.008542095
ARSENIC	189.042	Axial	3.752510	0.01049154	0.01720226	0.007716629	0.006555732
BARIUM	233.527	Axial	22.26808	0.004838548	0.004957659	0.004893647	0.004664339
BERYLLIUM	313.042	Radial	33.24573	0.002028097	0.002060270	0.001997250	0.002026771
BORON	249.678	Radial	41.17078	0.1963639	0.1903329	0.1940454	0.2047134
CADMIUM	228.802	Axial	2.768001	0.002210231	0.002802657	0.002990218	0.0008378181
CALCIUM	317.933	Radial	249.9012	1.021706	1.030371	1.019740	1.015007
CHROMIUM	267.716	Axial	27.48390	0.009770098	0.009140543	0.009109977	0.01105977
COBALT	228.616	Axial	7.655445	0.008839464	0.008749861	0.009523309	0.008245223
COPPER	324.754	Axial	42.40386	0.01043548	0.01064668	0.01092648	0.009733284
IRON	259.940	Radial	26.96383	0.09739186	0.09795145	0.09863727	0.09558685
LEAD	220.353	Axial	2.490288	0.004472836	0.004671397	0.003669205	0.005077907
LITHIUM	670.784	Radial	55.52378	0.01713338	0.01695448	0.01584574	0.01859993
MAGNESIUM	279.079	Radial	85.69088	1.014167	0.9909536	1.021739	1.029809
MANGANESE	257.610	Axial	196.5199	0.009573184	0.009477680	0.009594152	0.009647721
MOLYBDENUM	202.030	Axial	2.802204	0.004074169	0.003442537	0.002529877	0.006250092
NICKEL	231.604	Axial	6.373018	0.008195967	0.007855457	0.008148144	0.008584301
PHOSPHORUS	177.495	Axial	19.69737	0.09792157	0.09422023	0.09706215	0.1024823
POTASSIUM	766.490	Radial	78.99892	1.093836	1.094032	1.089102	1.098373
SELENIUM	196.090	Axial	2.160495	0.009196919	0.01530757	0.01354345	-0.001260268
SILICON	251.611	Axial	197.4411	0.1914235	0.1904504	0.1911692	0.1926510
SILVER	328.068	Axial	5.484397	0.005064468	0.005139032	0.005517834	0.004536537
SODIUM	589.592	Radial	345.1074	1.081699	1.059856	1.082121	1.103121
STRONTIUM	421.552	Radial	111.1454	0.01049771	0.01064211	0.01044711	0.01040390
SULFUR	182.034	Axial	55.60486	1.009883	0.9848240	1.013445	1.031382
THALLIUM	190.856	Axial	2.233425	0.01041173	0.01157103	0.01068824	0.008975908
TIN	189.989	Axial	19.59253	0.04936841	0.04711733	0.04970468	0.05128324
TITANIUM	334.941	Radial	81.96607	0.05127399	0.05083480	0.05087091	0.05211625
VANADIUM	292.402	Radial	11.42260	0.01899172	0.01927274	0.01966725	0.01803519
ZINC	206.200	Axial	225.7905	0.05172555	0.05105297	0.05221266	0.05191101
CERIUM	535.353	Radial	9.005246	-0.02296793	-0.01484076	-0.03436233	-0.01970069
LANTHANUM	333.749	Radial	1.486840	0.003851754	0.006869141	0.003043558	0.001642563

Sample ID: ICSA Units: mg/l
Analyzed: 03/13/25 18:16 Sequence: 19 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5040.685	5035.251	5019.869	5066.935
YTTRIUM	360.073	Axial	52245.51	52188.61	52099.16	52448.76
YTTRIUM	360.073	Radial	4894.242	4927.695	4851.481	4903.550
INDIUM	230.606	Axial	1060.844	1054.754	1059.918	1067.859

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	27784.70	507.3335	507.6037	512.0255	502.3715
ANTIMONY	206.833	Axial	0.02118540	-0.005890703	0.001346610	-0.01261609	-0.006402628
ARSENIC	189.042	Axial	0.03564847	-0.009513342	-0.007207418	-0.01043915	-0.01089346
BARIUM	233.527	Axial	7.397193	0.002252917	0.001860518	0.002598717	0.002299516
BERYLLIUM	313.042	Radial	2.947758	0.0001243718	0.0001951370	0.00004241753	0.0001355609
BORON	249.678	Radial	-6.12146	-0.03299020	-0.02334403	-0.03851070	-0.03711587
CADMIUM	228.802	Axial	-3.54148	-0.0008170310	-0.0002395324	-0.0001991901	-0.002012370
CALCIUM	373.690	Radial	48684.25	512.3176	513.2228	515.2638	508.4663
CERIUM	535.353	Radial	14.80724	0.04977146	0.03387923	0.05416816	0.06126698
CHROMIUM	267.716	Axial	5.563611	0.0001795543	0.00005854352	-0.00008661926	0.0005667388
COBALT	228.616	Axial	0.6761074	0.002089288	0.002324537	0.001814251	0.002129077
COPPER	324.754	Axial	-10.9572	-0.001550748	-0.001682792	-0.0009128032	-0.002056648
IRON	271.441	Radial	3604.946	202.9875	201.1940	201.8506	205.9180
LANTHANUM	333.749	Radial	-2.53666	-0.003994538	-0.0002339974	-0.002817510	-0.008932108
LEAD	220.353	Axial	-1.23020	-0.004154933	-0.004923357	-0.006263210	-0.001278232
LITHIUM	670.784	Radial	36.22428	0.0002403442	-0.003060108	0.002542220	0.001238921
MAGNESIUM	279.079	Radial	42952.54	512.4604	512.6839	516.0711	508.6263
MANGANESE	257.610	Axial	-148.051	-0.007033046	-0.006904675	-0.007086437	-0.007108025
MOLYBDENUM	202.030	Axial	3.138126	0.004714455	0.005261170	0.002089559	0.006792636
NICKEL	231.604	Axial	0.6722375	0.002193265	0.003998403	0.0004710614	0.002110330
PHOSPHORUS	177.495	Axial	1.202893	-0.005409319	-0.006253484	-0.004141124	-0.005833350
POTASSIUM	766.490	Radial	-18.4856	0.08099175	0.04877397	0.02147912	0.1727222
SELENIUM	196.090	Axial	-0.4304486	-0.008969787	-0.01329369	-0.009492318	-0.004123348
SILICON	251.611	Axial	-0.2834801	-0.006472150	-0.007275850	-0.01303280	0.0008921950
SILVER	328.068	Axial	0.5261284	0.003737118	0.003596016	0.001512527	0.006102810
SODIUM	589.592	Radial	-33.3962	0.06913038	0.07562913	0.06481072	0.06695128
STRONTIUM	421.552	Radial	76.25259	0.007425342	0.007329887	0.007597852	0.007348287
SULFUR	182.034	Axial	4.471809	0.009211639	0.01315715	0.01438502	0.00009275180
THALLIUM	190.856	Axial	0.07528606	-0.002304823	0.00002215030	-0.009623323	0.002686704
TIN	189.989	Axial	0.3149789	0.001516685	0.003634080	0.002419500	-0.001503525
TITANIUM	334.941	Radial	-8.90133	-0.003685560	-0.003323246	-0.003885433	-0.003848002
VANADIUM	292.402	Radial	1.128963	0.001995062	0.001211802	0.002713985	0.002059399
ZINC	206.200	Axial	213.3077	0.04648271	0.04565646	0.04706384	0.04672783

Sample ID: ICSAB Units: mg/l
Analyzed: 03/13/25 18:17 Sequence: 20 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5139.348	5199.129	5088.003	5130.914
YTTRIUM	360.073	Axial	53078.20	53245.72	52904.03	53084.85
YTTRIUM	360.073	Radial	4889.096	4893.941	4874.031	4899.315
INDIUM	230.606	Axial	1078.689	1079.872	1075.981	1080.214

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28289.93	517.0842	518.4306	516.4231	516.3989
ANTIMONY	206.833	Axial	61.59280	0.4807326	0.4790392	0.4812624	0.4818962
ARSENIC	189.042	Axial	89.53244	0.4653397	0.4609041	0.4696199	0.4654950
BARIUM	233.527	Axial	2882.095	0.4960586	0.4935180	0.4991666	0.4954911
BERYLLIUM	313.042	Radial	7806.343	0.5099084	0.5097209	0.5115466	0.5084576
BORON	249.678	Radial	197.5658	0.9858218	0.9906711	0.9928057	0.9739885
CADMIUM	228.802	Axial	2063.313	0.9745325	0.9572444	0.9880420	0.9783111
CALCIUM	373.690	Radial	49490.54	521.3464	519.1796	524.4709	520.3887
CERIUM	535.353	Radial	15.56354	0.05882450	0.03599328	0.002223812	0.1382564
CHROMIUM	267.716	Axial	1131.397	0.4862302	0.4806505	0.4902922	0.4877479
COBALT	228.616	Axial	451.8353	0.5309577	0.5303092	0.5302243	0.5323397
COPPER	324.754	Axial	2156.863	0.5036999	0.4987966	0.5079253	0.5043779
IRON	271.441	Radial	3635.345	204.9151	206.0499	203.7390	204.9564
LANTHANUM	333.749	Radial	-4.07216	-0.007028779	-0.009270855	-0.002850399	-0.008965082
LEAD	220.353	Axial	398.0949	1.024564	1.028963	1.020460	1.024269
LITHIUM	670.784	Radial	36.60431	0.0006370839	-0.0009122233	0.003288243	-0.0004647677
MAGNESIUM	279.079	Radial	43626.96	521.0409	522.6968	520.2463	520.1796
MANGANESE	257.610	Axial	10420.93	0.4940664	0.4934021	0.4941495	0.4946477
MOLYBDENUM	202.030	Axial	255.5849	0.4614623	0.4486414	0.4716626	0.4640828
NICKEL	231.604	Axial	810.8014	1.041618	1.040844	1.041885	1.042126
PHOSPHORUS	177.495	Axial	0.5809730	-0.008973878	-0.008146713	-0.01015040	-0.008624518
POTASSIUM	766.490	Radial	-13.8880	0.1300270	0.08834531	0.09091490	0.2108207
SELENIUM	196.090	Axial	70.14221	0.4778746	0.4728055	0.4840058	0.4768125
SILICON	251.611	Axial	885.9265	0.9267692	0.9209119	0.9349804	0.9244152
SILVER	328.068	Axial	3819.127	1.081434	1.117402	1.008214	1.118686
SODIUM	589.592	Radial	-15.0870	0.1196570	0.1130661	0.1194687	0.1264361
STRONTIUM	421.552	Radial	73.35204	0.007145521	0.006923316	0.007153730	0.007359517
SULFUR	182.034	Axial	4.310525	0.004459201	-0.001796978	0.02072957	-0.005554987
THALLIUM	190.856	Axial	71.64060	0.5019606	0.5030287	0.5004790	0.5023741
TIN	189.989	Axial	172.9927	0.5125422	0.5054351	0.5159027	0.5162889
TITANIUM	334.941	Radial	793.7826	0.4976848	0.4967260	0.4983011	0.4980274
VANADIUM	292.402	Radial	287.2944	0.4938758	0.4955323	0.4903966	0.4956984
ZINC	206.200	Axial	2214.257	0.9474780	0.9251395	0.9669717	0.9503228

Sample ID: CCV Units: mg/l
Analyzed: 03/13/25 23:52 Sequence: 200 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5148.983	5174.884	5180.667	5091.397
YTTRIUM	360.073	Axial	55245.58	54990.24	55597.50	55149.00
YTTRIUM	360.073	Radial	5021.084	5051.505	4978.801	5032.947
INDIUM	230.606	Axial	1234.045	1231.688	1239.413	1231.034

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	566.2151	10.13284	10.08053	10.22953	10.08847
ANTIMONY	206.833	Axial	67.85389	0.5292177	0.5272500	0.5284803	0.5319228
ARSENIC	189.042	Axial	198.1906	1.039895	1.038642	1.029642	1.051401
BARIUM	233.527	Axial	3104.049	0.5332045	0.5260431	0.5335867	0.5399836
BERYLLIUM	313.042	Radial	3290.878	0.2092744	0.2081168	0.2107217	0.2089847
BORON	249.678	Radial	212.5306	1.032737	1.022933	1.035585	1.039694
CADMIUM	228.802	Axial	1110.975	0.5241433	0.5156674	0.5237599	0.5330027
CALCIUM	373.690	Radial	5229.017	53.62735	53.50876	53.85048	53.52279
CHROMIUM	267.716	Axial	2443.768	1.050904	1.038447	1.047067	1.067199
COBALT	228.616	Axial	990.9568	1.016704	1.007338	1.021371	1.021402
COPPER	324.754	Axial	4758.577	1.066496	1.061048	1.066920	1.071520
IRON	259.940	Radial	2555.876	10.50177	10.49640	10.59098	10.41793
LEAD	220.353	Axial	231.7211	0.5208258	0.5101522	0.5293601	0.5229650
LITHIUM	670.784	Radial	1049.076	0.9577515	0.9623618	0.9584244	0.9524684
MAGNESIUM	279.079	Radial	894.9612	10.43439	10.32804	10.55404	10.42108
MANGANESE	257.610	Axial	22283.10	1.054369	1.045298	1.058276	1.059533
MOLYBDENUM	202.030	Axial	147.4252	0.2651829	0.2608006	0.2685083	0.2662399
NICKEL	231.604	Axial	903.8697	1.015036	1.014105	1.012930	1.018073
PHOSPHORUS	177.495	Axial	190.0627	1.032875	1.019916	1.032910	1.045800
POTASSIUM	766.490	Radial	4934.131	51.65948	51.63925	51.82291	51.51629
SELENIUM	196.090	Axial	150.8217	1.032394	1.028636	1.025161	1.043384
SILICON	251.611	Axial	2076.475	2.094623	2.070131	2.096892	2.116846
SILVER	328.068	Axial	2145.662	0.5854621	0.5879579	0.5828716	0.5855567
SODIUM	818.326	Radial	431.9501	49.54409	49.92300	49.40746	49.30180
STRONTIUM	421.552	Radial	10849.00	1.044871	1.041648	1.051548	1.041416
SULFUR	182.034	Axial	269.8731	5.118982	5.105653	5.111459	5.139833
THALLIUM	190.856	Axial	173.4982	1.065776	1.058540	1.064792	1.073997
TIN	189.989	Axial	200.8010	0.5200307	0.5170588	0.5171303	0.5259029
TITANIUM	334.941	Radial	1724.648	1.050857	1.040256	1.061405	1.050909
VANADIUM	292.402	Radial	622.0894	1.041302	1.032751	1.053028	1.038127
ZINC	206.200	Axial	2376.070	1.018381	0.9979828	1.027046	1.030115
CERIUM	535.353	Radial	11.43141	0.006349353	-0.03422755	0.06355039	-0.01027478
LANTHANUM	333.749	Radial	-5.67797	-0.009925249	-0.01082438	-0.01270500	-0.006246371

Sample ID: CCB Units: mg/l
Analyzed: 03/13/25 23:53 Sequence: 201

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4985.170	4964.691	4996.855	4993.962
YTTRIUM	360.073	Axial	55287.56	54795.91	55439.30	55627.48
YTTRIUM	360.073	Radial	4980.797	4983.869	4995.121	4963.400
INDIUM	230.606	Axial	1277.656	1269.956	1283.841	1279.170

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-2.57373	0.01011288	0.01277311	-0.0008228541	0.01838838
ANTIMONY	206.833	Axial	0.6823804	-0.0004886115	0.003281574	0.0001121080	-0.004859517
ARSENIC	189.042	Axial	2.918780	0.006244208	0.00004317721	0.006809415	0.01188003
BARIUM	233.527	Axial	-4.09709	0.0002314003	0.0001615616	0.0003201432	0.0002124959
BERYLLIUM	313.042	Radial	4.504759	0.0002213967	0.0001576415	0.0002071079	0.0002994408
BORON	249.678	Radial	1.075214	0.002913002	-0.0008151953	0.003951734	0.005602466
CADMIUM	228.802	Axial	-1.90162	-0.00004190084	-0.0001804049	0.0007967288	-0.0007420264
CALCIUM	317.933	Radial	22.47655	0.004675138	0.002979184	0.004053914	0.006992315
CERIUM	535.353	Radial	10.87823	0.0006531242	-0.000002044116	0.02055965	-0.01859824
CHROMIUM	267.716	Axial	8.850228	0.001672197	0.002379849	0.001285299	0.001351442
COBALT	228.616	Axial	-2.51733	-0.001210399	-0.001807130	-0.0007182205	-0.001105847
COPPER	324.754	Axial	0.6144888	0.001182980	0.001821507	0.001186340	0.0005410927
IRON	259.940	Radial	2.972680	-0.0001867988	0.003128519	-0.0006987102	-0.002990205
LANTHANUM	333.749	Radial	-0.04567943	0.0009294979	-0.002530062	0.003997382	0.001321174
LEAD	220.353	Axial	1.275981	0.001854098	0.002292146	0.00006623307	0.003203915
LITHIUM	670.784	Radial	42.23098	0.005349468	0.003821588	0.004463958	0.007762856
MAGNESIUM	279.079	Radial	-1.06894	0.01414604	0.01263821	0.02971676	0.00008313656
MANGANESE	257.610	Axial	9.606645	0.0005913964	0.0007349136	0.0005800831	0.0004591925
MOLYBDENUM	202.030	Axial	1.806538	0.002304975	0.003769055	0.002323717	0.0008221514
NICKEL	231.604	Axial	-0.6352646	0.0006227277	0.0004270255	0.002060229	-0.0006190714
PHOSPHORUS	177.495	Axial	1.373119	-0.004366039	-0.002673976	-0.005691441	-0.004732699
POTASSIUM	766.490	Radial	-20.4502	0.06405860	0.04367007	0.02973263	0.1187731
SELENIUM	196.090	Axial	0.8018285	-0.0002335993	-0.001589981	-0.0005368532	0.001426036
SILICON	251.611	Axial	7.134054	0.001069122	0.002785878	0.002180432	-0.001758943
SILVER	328.068	Axial	-12.2658	0.0002552986	-0.002220280	0.0002545377	0.002731638
SODIUM	589.592	Radial	57.57847	0.3175261	0.3217761	0.3274503	0.3033518
STRONTIUM	421.552	Radial	-0.6601524	-0.0001744219	-0.0001122769	-0.0001861898	-0.0002247989
SULFUR	182.034	Axial	6.454387	0.04962444	0.05975505	0.05366788	0.03545040
THALLIUM	190.856	Axial	0.4719439	-0.00002496673	0.0007043157	-0.001057797	0.0002785814
TIN	189.989	Axial	-0.2830280	-0.0001452664	0.0004538254	-0.002319945	0.001430320
TITANIUM	334.941	Radial	-4.61367	-0.0009553296	-0.0007649680	-0.002751484	0.0006504631
VANADIUM	292.402	Radial	0.2785547	0.0005210024	0.003850226	-0.0008329416	-0.001454277
ZINC	206.200	Axial	110.9591	-0.00002632366	0.0004449187	-0.00009782197	-0.0004260678

Sample ID: BLANK DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 23:55 Sequence: 202

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5081.715	5064.882	5056.854	5123.410
YTTRIUM	360.073	Axial	56551.52	56436.49	56523.67	56694.40
YTTRIUM	360.073	Radial	5018.296	5009.684	4977.811	5067.392
INDIUM	230.606	Axial	1326.742	1322.983	1326.924	1330.319

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	2.602767	0.004252224	0.001555226	0.005410503	0.005790945
BARIUM	233.527	Axial	-5.49987	0.000003818943	0.0003942860	0.0001595663	-0.0005423955
BORON	249.678	Radial	0.4949517	0.00005816512	-0.003118775	0.004646168	-0.001352897
CADMIUM	228.802	Axial	0.4363637	0.001091276	0.00007343677	0.001877120	0.001323271
CALCIUM	317.933	Radial	23.34769	0.007824320	0.006514166	0.004951821	0.01200697
CHROMIUM	267.716	Axial	8.367902	0.001388801	0.001916130	0.001726623	0.0005236489
COBALT	228.616	Axial	-2.33042	-0.0009387947	-0.002010306	0.0004995197	-0.001305598
LEAD	220.353	Axial	1.457255	0.002128194	0.001860953	0.003106104	0.001417525
LITHIUM	670.784	Radial	36.14162	-0.0007213230	0.001279813	-0.002096438	-0.001347345
MAGNESIUM	279.079	Radial	-1.49229	0.009356532	0.01698879	0.006380509	0.004700300
SELENIUM	196.090	Axial	0.1380427	-0.004982167	-0.003125642	-0.009553326	-0.002267533
SILVER	328.068	Axial	-12.1661	0.0003695171	0.0007344822	0.0009228070	-0.0005487380
SODIUM	589.592	Radial	125.1174	0.4983907	0.5167096	0.5127448	0.4657177
ALUMINUM	308.215	Radial	-1.73419	0.02533348	-0.003726702	0.03509461	0.04463253
ANTIMONY	206.833	Axial	0.3358226	-0.003402019	-0.007595654	-0.006710302	0.004099898
BERYLLIUM	313.042	Radial	4.287216	0.0002052219	-0.000008422461	0.0003339654	0.0002901228
CERIUM	535.353	Radial	9.637182	-0.01457023	-0.005225818	-0.004002503	-0.03448236
COPPER	324.754	Axial	15.16721	0.004360643	0.004905066	0.004321390	0.003855472
IRON	259.940	Radial	9.720721	0.02749783	0.02869491	0.02653365	0.02726492
LANTHANUM	333.749	Radial	-0.2418807	0.0005640608	-0.0006937937	0.003095168	-0.0007091924
MANGANESE	257.610	Axial	4.740148	0.0003494452	0.0004694291	0.0003661403	0.0002127660
MOLYBDENUM	202.030	Axial	0.9008041	0.0005703061	-0.001954903	0.0004083887	0.003257432
NICKEL	231.604	Axial	0.4608898	0.001795151	0.002442309	0.001878780	0.001064366
PHOSPHORUS	177.495	Axial	0.8682084	-0.007334124	-0.004122387	-0.01098541	-0.006894575
POTASSIUM	766.490	Radial	-21.4024	0.05568851	0.06406858	0.05828966	0.04470729
SILICON	251.611	Axial	37.93428	0.03134179	0.03241373	0.03191188	0.02969976
STRONTIUM	421.552	Radial	-2.30921	-0.0003337349	-0.0006400464	-0.0002926649	-0.00006849334
SULFUR	182.034	Axial	8.798144	0.09290450	0.08458096	0.1004540	0.09367853
THALLIUM	190.856	Axial	0.2503104	-0.001399932	-0.0009775460	-0.0004044390	-0.002817812
TIN	189.989	Axial	0.6975890	0.002232012	-0.0006436803	0.003313346	0.004026369
TITANIUM	334.941	Radial	-2.65540	0.0002519356	-0.001405950	0.0009825419	0.001179215
VANADIUM	292.402	Radial	-0.6408353	-0.001029699	-0.002501456	-0.001632714	0.001045072
ZINC	206.200	Axial	115.4307	0.001033034	0.0009915281	0.001189287	0.0009182859

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 23:57 Sequence: 203

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5116.826	5118.631	5129.652	5102.195
YTTRIUM	360.073	Axial	55782.93	56102.39	55523.82	55722.57
YTTRIUM	360.073	Radial	4985.838	4953.178	4941.762	5062.572
INDIUM	230.606	Axial	1260.397	1266.176	1260.386	1254.628

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	196.3753	1.036759	1.033438	1.034585	1.042252
BARIUM	233.527	Axial	6081.321	1.050204	1.042771	1.049447	1.058395
BORON	249.678	Radial	204.8740	1.002523	1.005202	1.005585	0.9967829
CADMIUM	228.802	Axial	2211.245	1.048828	1.046555	1.040255	1.059673
CALCIUM	317.933	Radial	2309.870	10.41896	10.47146	10.44602	10.33941
CHROMIUM	267.716	Axial	2369.241	1.025132	1.023440	1.017206	1.034748
COBALT	228.616	Axial	957.6878	0.9621298	0.9571492	0.9556048	0.9736354
LEAD	220.353	Axial	456.4380	1.005374	0.9991233	1.002874	1.014125
LITHIUM	670.784	Radial	1031.557	0.9482425	0.9558508	0.9617084	0.9271684
MAGNESIUM	279.079	Radial	878.5359	10.31542	10.34881	10.33158	10.26586
SELENIUM	196.090	Axial	145.3041	1.000651	0.9992896	0.9922477	1.010415
SILVER	328.068	Axial	745.3704	0.2037710	0.2047751	0.2030916	0.2034463
SODIUM	589.592	Radial	3928.927	10.80874	10.81847	10.77996	10.82777
ALUMINUM	308.215	Radial	575.1972	10.36551	10.36054	10.47907	10.25692
ANTIMONY	206.833	Axial	133.1351	1.050799	1.038064	1.040906	1.073426
BERYLLIUM	313.042	Radial	16138.27	1.033796	1.038096	1.034658	1.028634
CERIUM	535.353	Radial	6.430453	-0.05136195	-0.06069681	-0.03539259	-0.05799645
COPPER	324.754	Axial	4850.620	1.076661	1.068890	1.071902	1.089192
IRON	259.940	Radial	2530.106	10.46909	10.48550	10.46450	10.45728
LANTHANUM	333.749	Radial	-11.5982	-0.02146744	-0.01932567	-0.02218582	-0.02289082
MANGANESE	257.610	Axial	21473.88	1.022453	1.018011	1.019427	1.029921
MOLYBDENUM	202.030	Axial	593.4696	1.077467	1.078002	1.072197	1.082203
NICKEL	231.604	Axial	879.1491	0.9667126	0.9618263	0.9627036	0.9756080
PHOSPHORUS	177.495	Axial	186.6893	1.020716	1.023880	1.014825	1.023443
POTASSIUM	766.490	Radial	970.3404	10.45471	10.49302	10.45286	10.41824
SILICON	251.611	Axial	983.8670	0.9796381	0.9812378	0.9692856	0.9883907
STRONTIUM	421.552	Radial	10741.06	1.041818	1.047102	1.044265	1.034088
SULFUR	182.034	Axial	514.3244	9.889106	9.899644	9.912901	9.854774
THALLIUM	190.856	Axial	176.2200	1.059853	1.054612	1.064471	1.060476
TIN	189.989	Axial	396.4540	1.004755	0.9968574	1.002960	1.014449
TITANIUM	334.941	Radial	1703.931	1.045586	1.050265	1.048147	1.038347
VANADIUM	292.402	Radial	607.4445	1.023933	1.026087	1.022975	1.022739
ZINC	206.200	Axial	2391.602	1.032107	1.024081	1.023377	1.048864

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835075-01 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/13/25 23:59 Sequence: 204

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5314.452	5325.210	5267.781	5350.365
YTTRIUM	360.073	Axial	56762.53	56824.47	56332.38	57130.73
YTTRIUM	360.073	Radial	5065.988	5044.813	5037.221	5115.929
INDIUM	230.606	Axial	1231.633	1225.386	1221.871	1247.641

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.932617	0.02070248	0.02187742	0.01495093	0.02527909
BARIUM	233.527	Axial	5553.040	0.9234252	0.9190187	0.9257978	0.9254590
BORON	249.678	Radial	1.916862	0.006913804	0.01518877	0.005181193	0.0003714453
CADMIUM	228.802	Axial	4.375651	0.002878505	0.003557736	0.002369258	0.002708519
CALCIUM	373.690	Radial	10121.08	102.8868	102.7901	103.0595	102.8109
CHROMIUM	267.716	Axial	162.8668	0.06572947	0.06556647	0.06568637	0.06593556
COBALT	228.616	Axial	38.20596	0.04050251	0.04040599	0.03961611	0.04148542
LEAD	220.353	Axial	40.39575	0.09018872	0.08973051	0.08706480	0.09377086
LITHIUM	670.784	Radial	73.65131	0.03415015	0.03860521	0.03281912	0.03102612
MAGNESIUM	279.079	Radial	1757.084	20.27808	20.25413	20.31923	20.26088
SELENIUM	196.090	Axial	-0.03484180	-0.006158843	-0.0003041550	-0.006831939	-0.01134043
SILVER	328.068	Axial	-6.24853	0.001938901	0.003707632	0.0005460050	0.001563066
SODIUM	589.592	Radial	1952.285	5.368410	5.367159	5.368207	5.369865
ALUMINUM	308.215	Radial	1561.665	27.60103	27.68689	27.57255	27.54366
ANTIMONY	206.833	Axial	0.9704295	0.001348788	0.007015914	-0.002762176	-0.0002073759
BERYLLIUM	313.042	Radial	64.53147	0.004000906	0.003892566	0.004095528	0.004014625
CERIUM	535.353	Radial	25.21938	0.1634897	0.1722602	0.1476787	0.1705303
COPPER	324.754	Axial	601.3637	0.1320944	0.1324587	0.1326572	0.1311673
IRON	271.441	Radial	1480.289	80.46889	80.31411	79.91305	81.17951
LANTHANUM	333.749	Radial	43.12626	0.08335289	0.08372529	0.08374970	0.08258368
MANGANESE	257.610	Axial	22307.35	1.022643	1.019414	1.026205	1.022312
MOLYBDENUM	202.030	Axial	4.609788	0.006986159	0.006230657	0.004874336	0.009853485
NICKEL	231.604	Axial	79.92298	0.09113359	0.09076010	0.09271735	0.08992332
PHOSPHORUS	177.495	Axial	297.0580	1.570335	1.541677	1.601845	1.567484
POTASSIUM	766.490	Radial	500.5107	5.444255	5.514058	5.359171	5.459538
SILICON	251.611	Axial	9520.466	9.368215	9.331067	9.330413	9.443164
STRONTIUM	421.552	Radial	5208.059	0.4970623	0.4976722	0.4944714	0.4990434
SULFUR	182.034	Axial	1166.490	21.68981	21.33779	22.17176	21.55987
THALLIUM	190.856	Axial	0.1265576	-0.002044738	-0.004608576	0.001573816	-0.003099453
TIN	189.989	Axial	2.654077	0.007428226	0.006836865	0.006638025	0.008809787
TITANIUM	334.941	Radial	492.5746	0.2988078	0.2967436	0.3022396	0.2974403
VANADIUM	292.402	Radial	64.20446	0.1065520	0.1055109	0.1059900	0.1081552
ZINC	206.200	Axial	863.6553	0.3251561	0.3220206	0.3244783	0.3289695

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1835075-01 Batch: WG2467988 Units: mg/kg
Analyzed: 03/14/25 00:00 Sequence: 205

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5152.671	5171.976	5147.688	5138.349
YTTRIUM	360.073	Axial	56157.82	56622.97	56528.78	55321.71
YTTRIUM	360.073	Radial	4937.080	4906.094	4967.247	4937.899
INDIUM	230.606	Axial	1257.565	1263.080	1263.574	1246.043

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	2.248545	0.002200016	-0.01191580	0.01667739	0.02823866
BARIUM	233.527	Axial	1110.104	0.1911552	0.9561486	0.9606619	0.9505177
BORON	249.678	Radial	2.526452	0.01014045	0.01243542	0.02082612	0.1188451
CADMIUM	228.802	Axial	-0.2931619	0.0007447482	0.006267995	0.001300233	0.003602996
CALCIUM	317.933	Radial	4589.975	21.00564	105.3596	104.6498	105.0751
CHROMIUM	267.716	Axial	36.65271	0.01351427	0.06838836	0.07005756	0.06426810
COBALT	228.616	Axial	5.167971	0.006475940	0.03487828	0.03393779	0.02832303
LEAD	220.353	Axial	8.240505	0.01729221	0.09412478	0.07011802	0.09514041
LITHIUM	670.784	Radial	44.54567	0.007937874	0.05504915	0.03587036	0.02814861
MAGNESIUM	279.079	Radial	359.7539	4.281344	21.45522	21.37442	21.39053
SELENIUM	196.090	Axial	1.001509	0.0009616652	-0.01269048	0.03156640	-0.004450946
SILVER	328.068	Axial	-20.0061	-0.001748064	-0.005137341	-0.01097034	-0.01011328
SODIUM	589.592	Radial	620.4854	1.859517	9.346457	9.310455	9.235841
ALUMINUM	308.215	Radial	307.2051	5.616354	28.30735	27.93378	28.00417
ANTIMONY	206.833	Axial	0.008683109	-0.005959238	-0.1162199	0.04999399	-0.02316268
BERYLLIUM	313.042	Radial	14.55494	0.0008740302	0.004446344	0.004412101	0.004252010
CERIUM	535.353	Radial	10.36183	-0.004387776	-0.1430746	0.1337353	-0.05647733
COPPER	324.754	Axial	121.5053	0.02781164	0.1338639	0.1405679	0.1427428
IRON	259.940	Radial	3866.117	16.16192	80.81415	80.78483	80.82976
LANTHANUM	333.749	Radial	9.352292	0.01934866	0.1029856	0.08139175	0.1058525
MANGANESE	257.610	Axial	4568.831	0.2161192	1.081603	1.082393	1.077792
MOLYBDENUM	202.030	Axial	1.868322	0.002308064	0.0002448256	0.01915033	0.01522580
NICKEL	231.604	Axial	16.19705	0.01914386	0.09585087	0.09019592	0.1011111
PHOSPHORUS	177.495	Axial	60.91362	0.3225036	1.601957	1.608616	1.626982
POTASSIUM	766.490	Radial	87.51736	1.205217	5.860891	6.506209	5.711156
SILICON	251.611	Axial	2041.506	2.025666	10.13166	10.16374	10.08960
STRONTIUM	421.552	Radial	1122.143	0.1098139	0.5530476	0.5467353	0.5474252
SULFUR	182.034	Axial	242.4982	4.588374	22.76986	22.89676	23.15900
THALLIUM	190.856	Axial	-0.08108687	-0.003341290	-0.009334366	-0.007032965	-0.03375202
TIN	189.989	Axial	1.055000	0.003235002	0.01944988	0.01411150	0.01496364
TITANIUM	334.941	Radial	99.42214	0.06336854	0.3185062	0.3162060	0.3158158
VANADIUM	292.402	Radial	11.49551	0.01960999	0.09130459	0.1165170	0.08632831
ZINC	206.200	Axial	264.7550	0.06750106	0.3349144	0.3425359	0.3350656

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1835075-01 Batch: WG2467988 Units: mg/kg
Analyzed: 03/14/25 00:02 Sequence: 206

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5244.728	5244.085	5213.721	5276.380
YTTRIUM	360.073	Axial	55419.98	56021.01	54941.70	55297.23
YTTRIUM	360.073	Radial	5027.777	5001.650	5029.770	5051.910
INDIUM	230.606	Axial	1196.875	1205.970	1182.682	1201.973

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	207.7579	1.070410	1.074178	1.068747	1.068304
BARIUM	233.527	Axial	11940.41	2.010834	2.006441	2.009358	2.016704
BORON	249.678	Radial	209.7143	1.017635	1.015778	1.019291	1.017837
CADMIUM	228.802	Axial	2223.313	1.028837	1.035357	1.026249	1.024905
CALCIUM	373.690	Radial	11520.84	118.0082	118.3196	117.9674	117.7376
CHROMIUM	267.716	Axial	2593.026	1.094734	1.088860	1.097301	1.098040
COBALT	228.616	Axial	1018.486	1.077393	1.067774	1.086676	1.077729
LEAD	220.353	Axial	496.2258	1.151169	1.146836	1.157492	1.149178
LITHIUM	670.784	Radial	1149.265	1.051141	1.057636	1.056446	1.039342
MAGNESIUM	279.079	Radial	2726.781	31.69351	31.79913	31.75700	31.52441
SELENIUM	196.090	Axial	148.1753	0.9954663	0.9908411	0.9915475	1.004010
SILVER	328.068	Axial	769.3689	0.2116055	0.2062815	0.2161901	0.2123450
SODIUM	589.592	Radial	5841.749	15.86102	15.96465	15.87181	15.74662
ALUMINUM	308.215	Radial	2236.979	39.81267	40.00875	39.98732	39.44193
ANTIMONY	206.833	Axial	134.8763	1.038544	1.031158	1.058709	1.025767
BERYLLIUM	313.042	Radial	16459.91	1.045586	1.050680	1.047055	1.039022
CERIUM	535.353	Radial	27.28813	0.1897887	0.1981763	0.2211993	0.1499906
COPPER	324.754	Axial	5438.147	1.214874	1.206868	1.220016	1.217739
IRON	271.441	Radial	1724.957	94.50353	94.90979	94.86523	93.73556
LANTHANUM	333.749	Radial	32.26415	0.06309077	0.06521945	0.06480419	0.05924866
MANGANESE	257.610	Axial	45128.59	2.096215	2.096538	2.101426	2.090680
MOLYBDENUM	202.030	Axial	606.4778	1.074207	1.067974	1.074138	1.080509
NICKEL	231.604	Axial	986.4626	1.142055	1.129677	1.145867	1.150620
PHOSPHORUS	177.495	Axial	501.3830	2.694063	2.626387	2.711601	2.744203
POTASSIUM	766.490	Radial	1551.189	16.40998	16.38892	16.42916	16.41185
SILICON	251.611	Axial	12008.66	12.10534	11.99199	12.03996	12.28406
STRONTIUM	421.552	Radial	16503.11	1.587359	1.594823	1.597913	1.569343
SULFUR	182.034	Axial	1752.308	33.05367	32.30636	33.38109	33.47355
THALLIUM	190.856	Axial	172.5195	1.092845	1.072259	1.107388	1.098888
TIN	189.989	Axial	401.6092	1.071875	1.049555	1.086193	1.079878
TITANIUM	334.941	Radial	2293.569	1.394967	1.392732	1.399309	1.392861
VANADIUM	292.402	Radial	677.2091	1.132037	1.141753	1.138658	1.115700
ZINC	206.200	Axial	3184.573	1.356185	1.373812	1.339678	1.355065

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835075-03 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/14/25 00:04 Sequence: 207

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5201.228	5166.581	5222.688	5214.417
YTTRIUM	360.073	Axial	56439.69	55839.30	56847.01	56632.77
YTTRIUM	360.073	Radial	5039.290	5045.605	5022.925	5049.340
INDIUM	230.606	Axial	1258.813	1240.770	1264.865	1270.803

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	2.594129	0.003905450	0.008057554	0.001293330	0.002365465
BARIUM	233.527	Axial	1342.661	0.2288406	0.2251152	0.2312667	0.2301399
BORON	249.678	Radial	0.6978541	0.001011011	0.001555719	-0.002846230	0.004323544
CADMIUM	228.802	Axial	-1.04718	0.0003957883	0.0005961475	0.0006543045	-0.00006308720
CALCIUM	317.933	Radial	2118.522	9.445031	9.508013	9.508887	9.318193
CHROMIUM	267.716	Axial	88.08992	0.03530828	0.03467773	0.03596711	0.03528001
COBALT	228.616	Axial	17.32303	0.01868459	0.01868955	0.01861191	0.01875232
LEAD	220.353	Axial	8.314752	0.01742176	0.01596030	0.01970552	0.01659948
LITHIUM	670.784	Radial	52.41444	0.01448208	0.01625536	0.01585621	0.01133466
MAGNESIUM	279.079	Radial	652.8460	7.591002	7.621957	7.619005	7.532044
SELENIUM	196.090	Axial	0.3355171	-0.003663676	-0.009486502	-0.003417364	0.001912838
SILVER	328.068	Axial	-12.6549	0.0002305261	-0.0002079432	-0.000008525400	0.0009080470
SODIUM	589.592	Radial	227.4043	0.7710676	0.7784412	0.7556315	0.7791301
ALUMINUM	308.215	Radial	1318.543	23.43615	23.56495	23.61121	23.13228
ANTIMONY	206.833	Axial	0.9053487	0.001009852	-0.001294163	-0.003796871	0.008120591
BERYLLIUM	313.042	Radial	28.53842	0.001741449	0.001910360	0.001858443	0.001455546
CERIUM	535.353	Radial	22.71316	0.1360364	0.1191292	0.1111963	0.1777838
COPPER	324.754	Axial	400.6996	0.08885831	0.08825547	0.08951408	0.08880537
IRON	271.441	Radial	648.0506	35.36544	35.44355	35.06273	35.59005
LANTHANUM	333.749	Radial	34.17211	0.06660547	0.06699939	0.06910462	0.06371239
MANGANESE	257.610	Axial	17116.86	0.8017676	0.7950317	0.8078963	0.8023750
MOLYBDENUM	202.030	Axial	1.935349	0.002398008	0.004036760	0.001344349	0.001812916
NICKEL	231.604	Axial	32.00464	0.03648981	0.03485842	0.03758422	0.03702679
PHOSPHORUS	177.495	Axial	412.7308	2.234205	2.220202	2.236620	2.245792
POTASSIUM	766.490	Radial	183.1296	2.178738	2.196538	2.189759	2.149918
SILICON	251.611	Axial	8396.725	8.308678	8.198909	8.335346	8.391778
STRONTIUM	421.552	Radial	313.1438	0.02994308	0.03020619	0.03044682	0.02917625
SULFUR	182.034	Axial	16.84604	0.2424375	0.2525653	0.2320283	0.2427189
THALLIUM	190.856	Axial	0.4092135	-0.0003646994	-0.0002497704	-0.0009333237	0.00008899586
TIN	189.989	Axial	0.7415569	0.002450624	0.003450441	0.005120821	-0.001219388
TITANIUM	334.941	Radial	1069.962	0.6502907	0.6526264	0.6600851	0.6381606
VANADIUM	292.402	Radial	49.43427	0.08249714	0.08001449	0.08557756	0.08189937
ZINC	206.200	Axial	285.6241	0.07568911	0.07499241	0.07594785	0.07612706

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1835075-03 Batch: WG2467988 Units: mg/kg
Analyzed: 03/14/25 00:05 Sequence: 208

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5181.153	5216.613	5146.285	5180.562
YTTRIUM	360.073	Axial	55535.70	55491.90	55529.75	55585.47
YTTRIUM	360.073	Radial	5036.329	5026.723	5008.551	5073.713
INDIUM	230.606	Axial	1187.421	1190.660	1181.266	1190.338

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.629208	0.01992357	0.01931453	0.02236078	0.01809538
BARIUM	233.527	Axial	23796.89	4.055955	3.994810	4.077390	4.095664
BORON	249.678	Radial	-0.1733870	-0.003211308	0.0009976203	-0.006378736	-0.004252810
CADMIUM	228.802	Axial	0.07727117	0.0009196856	0.001116923	0.001124081	0.0005180536
CALCIUM	373.690	Radial	12053.11	123.2509	123.6250	123.1936	122.9341
CHROMIUM	267.716	Axial	225.6492	0.09436986	0.09359059	0.09530055	0.09421845
COBALT	228.616	Axial	38.11584	0.04187368	0.04243053	0.04184199	0.04134852
LEAD	220.353	Axial	42.39917	0.09830107	0.09786724	0.1007412	0.09629475
LITHIUM	670.784	Radial	101.4834	0.06079909	0.05994810	0.06131699	0.06113218
MAGNESIUM	279.079	Radial	3566.053	41.36986	41.29260	41.56075	41.25623
SELENIUM	196.090	Axial	-0.7170535	-0.01087192	-0.007416926	-0.02271577	-0.002483064
SILVER	328.068	Axial	0.1671226	0.003637200	0.004668526	0.003912711	0.002330364
SODIUM	589.592	Radial	2354.641	6.478634	6.498454	6.483832	6.453617
ALUMINUM	308.215	Radial	2731.190	48.51264	48.43024	48.62219	48.48550
ANTIMONY	206.833	Axial	0.9117915	0.001075179	0.005070990	-0.002472215	0.0006267612
BERYLLIUM	313.042	Radial	63.93413	0.003987244	0.004051692	0.003997346	0.003912694
CERIUM	535.353	Radial	30.08677	0.2215689	0.2475895	0.2044257	0.2126916
COPPER	324.754	Axial	553.2069	0.1242597	0.1231904	0.1252910	0.1242976
IRON	271.441	Radial	1962.889	107.3673	107.4098	107.5470	107.1451
LANTHANUM	333.749	Radial	46.11050	0.08956127	0.09026280	0.08831447	0.09010655
MANGANESE	257.610	Axial	42761.83	2.010766	1.974931	2.031828	2.025538
MOLYBDENUM	202.030	Axial	3.910593	0.005948790	0.007292652	0.006395612	0.004158107
NICKEL	231.604	Axial	80.43719	0.09507006	0.09360688	0.09578283	0.09582047
PHOSPHORUS	177.495	Axial	597.4563	3.252439	3.207919	3.280030	3.269369
POTASSIUM	766.490	Radial	844.6201	9.047160	9.028888	9.043118	9.069475
SILICON	251.611	Axial	13207.32	13.28605	13.11309	13.35400	13.39106
STRONTIUM	421.552	Radial	7199.923	0.6912974	0.6951787	0.6942960	0.6844174
SULFUR	182.034	Axial	1049.499	20.00905	19.93079	20.09735	19.99901
THALLIUM	190.856	Axial	-0.1367574	-0.003705278	0.001134101	-0.001309869	-0.01094006
TIN	189.989	Axial	2.190822	0.006446177	0.006214052	0.005737798	0.007386682
TITANIUM	334.941	Radial	801.8049	0.4880561	0.4857677	0.4902387	0.4881618
VANADIUM	292.402	Radial	72.37927	0.1208351	0.1192902	0.1236260	0.1195890
ZINC	206.200	Axial	969.1316	0.3820979	0.3710849	0.3875514	0.3876575

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1835075-03 Batch: WG2467988 Units: mg/kg
Analyzed: 03/14/25 00:07 Sequence: 209

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5234.701	5280.560	5239.216	5184.326
YTTRIUM	360.073	Axial	56067.60	56646.02	56043.53	55513.25
YTTRIUM	360.073	Radial	5079.434	5029.158	5076.684	5132.459
INDIUM	230.606	Axial	1172.488	1186.771	1170.584	1160.110

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	8.915484	0.03670952	0.04324195	0.03155991	0.03532668
BARIUM	233.527	Axial	24717.10	4.169477	4.172725	4.164586	4.171122
BORON	249.678	Radial	2.440757	0.009382852	0.01016497	0.008230319	0.009753264
CADMIUM	228.802	Axial	0.8453646	0.001271542	0.001517227	0.001867686	0.0004297124
CALCIUM	373.690	Radial	14854.08	150.6157	152.4253	150.2486	149.1732
CHROMIUM	267.716	Axial	330.6181	0.1378789	0.1370307	0.1369941	0.1396120
COBALT	228.616	Axial	54.89857	0.06049833	0.05918481	0.06132884	0.06098133
LEAD	220.353	Axial	53.37778	0.1255703	0.1267475	0.1247987	0.1251648
LITHIUM	670.784	Radial	141.4276	0.09736987	0.09975323	0.09830831	0.09404806
MAGNESIUM	279.079	Radial	5948.812	68.41289	69.31790	68.01258	67.90818
SELENIUM	196.090	Axial	-0.01474275	-0.006014654	-0.007205607	-0.008899995	-0.001938359
SILVER	328.068	Axial	1.203767	0.003920910	0.003112627	0.003169307	0.005480797
SODIUM	589.592	Radial	3151.478	8.545005	8.613872	8.526297	8.494847
ALUMINUM	308.215	Radial	4079.680	71.82719	72.46756	71.83795	71.17604
ANTIMONY	206.833	Axial	0.7735693	-0.00009134452	0.006257193	-0.0003503842	-0.006180843
BERYLLIUM	313.042	Radial	71.33025	0.004417637	0.004300399	0.004628473	0.004324040
CERIUM	535.353	Radial	37.70370	0.3058832	0.2989151	0.2872691	0.3314653
COPPER	324.754	Axial	625.2244	0.1389819	0.1390446	0.1380884	0.1398128
IRON	271.441	Radial	2893.968	156.9897	156.8758	156.3011	157.7923
LANTHANUM	333.749	Radial	53.59437	0.1030633	0.1001956	0.1086907	0.1003036
MANGANESE	257.610	Axial	55454.15	2.580793	2.575560	2.567498	2.599322
MOLYBDENUM	202.030	Axial	5.074805	0.007957201	0.005484612	0.009440218	0.008946773
NICKEL	231.604	Axial	111.8179	0.1333134	0.1314064	0.1351276	0.1334063
PHOSPHORUS	177.495	Axial	843.2006	4.548072	4.549852	4.487104	4.607260
POTASSIUM	766.490	Radial	1285.839	13.51519	13.65492	13.42658	13.46406
SILICON	251.611	Axial	24198.99	24.11741	24.14504	24.06699	24.14022
STRONTIUM	421.552	Radial	9400.081	0.8950288	0.9192322	0.8893632	0.8764911
SULFUR	182.034	Axial	1121.827	21.17458	21.19405	20.79949	21.53020
THALLIUM	190.856	Axial	-0.8838875	-0.008573931	-0.008389524	-0.006178546	-0.01115372
TIN	189.989	Axial	1.645423	0.005042649	0.004546075	0.004736317	0.005845554
TITANIUM	334.941	Radial	1183.351	0.7135564	0.7522705	0.7064963	0.6819023
VANADIUM	292.402	Radial	106.6716	0.1765460	0.1785926	0.1746952	0.1763504
ZINC	206.200	Axial	1358.960	0.5502876	0.5497583	0.5521911	0.5489136

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835075-02 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/14/25 00:09 Sequence: 210

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5271.847	5235.159	5248.113	5332.271
YTTRIUM	360.073	Axial	56276.37	55891.89	56316.43	56620.80
YTTRIUM	360.073	Radial	5054.390	5026.256	5052.032	5084.882
INDIUM	230.606	Axial	1207.695	1195.968	1211.625	1215.490

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CALCIUM	373.690	Radial	12841.74	130.8476	131.7510	130.1709	130.6208
MAGNESIUM	279.079	Radial	1990.637	23.02309	23.15363	23.09458	22.82106
SODIUM	589.592	Radial	2011.142	5.537764	5.540015	5.560745	5.512532
ALUMINUM	308.215	Radial	1684.566	29.83753	30.07507	29.81204	29.62547
ANTIMONY	206.833	Axial	0.8227939	0.0002796191	-0.003589902	0.003994146	0.0004346136
ARSENIC	189.042	Axial	5.829648	0.02045484	0.02063102	0.02232043	0.01841309
BARIUM	233.527	Axial	5457.554	0.9148819	0.9123856	0.9172363	0.9150237
BERYLLIUM	313.042	Radial	70.62260	0.004395289	0.004496731	0.004270506	0.004418629
BORON	249.678	Radial	1.823363	0.006452503	0.006057681	0.006963111	0.006336717
CADMIUM	228.802	Axial	3.882743	0.002664080	0.002227735	0.002152335	0.003612169
CERIUM	535.353	Radial	26.53058	0.1792691	0.1401331	0.2281218	0.1695524
CHROMIUM	267.716	Axial	160.0780	0.06510274	0.06355918	0.06632075	0.06542828
COBALT	228.616	Axial	38.92513	0.04204071	0.04205334	0.04283301	0.04123578
COPPER	324.754	Axial	601.1265	0.1331685	0.1323498	0.1337253	0.1334304
IRON	271.441	Radial	1525.467	83.12172	82.87468	83.56435	82.92614
LANTHANUM	333.749	Radial	53.44297	0.1032735	0.1034218	0.1009206	0.1054782
LEAD	220.353	Axial	42.65748	0.09721672	0.09519339	0.1010069	0.09544991
LITHIUM	670.784	Radial	71.95613	0.03270728	0.03383682	0.03350372	0.03078130
MANGANESE	257.610	Axial	25438.74	1.175576	1.172570	1.176866	1.177293
MOLYBDENUM	202.030	Axial	2.842058	0.003955915	0.002903024	0.007146007	0.001818714
NICKEL	231.604	Axial	81.63080	0.09486403	0.09514301	0.09522050	0.09422857
PHOSPHORUS	177.495	Axial	346.2893	1.847426	1.850980	1.853229	1.838069
POTASSIUM	766.490	Radial	542.3418	5.889141	5.946314	5.875786	5.845324
SELENIUM	196.090	Axial	0.9490617	0.0004754717	0.005410584	-0.0002273498	-0.003756819
SILICON	251.611	Axial	14595.76	14.48993	14.38608	14.61229	14.47140
SILVER	328.068	Axial	-11.2902	0.0005865186	0.0008891201	0.0002430714	0.0006273641
STRONTIUM	421.552	Radial	5887.033	0.5631936	0.5678745	0.5610062	0.5607001
SULFUR	182.034	Axial	1665.296	31.24686	31.15303	31.38235	31.20519
THALLIUM	190.856	Axial	-0.01416449	-0.002913701	-0.0005697326	-0.004444089	-0.003727281
TIN	189.989	Axial	2.159260	0.006260646	0.006166086	0.002046313	0.01056954
TITANIUM	334.941	Radial	634.2120	0.3850819	0.3923245	0.3833300	0.3795912
VANADIUM	292.402	Radial	73.63944	0.1224856	0.1208970	0.1225649	0.1239947
ZINC	206.200	Axial	984.1085	0.3812318	0.3819096	0.3890096	0.3727761

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835075-04 DF: 1x Batch: WG2467988 Units: mg/kg
Analyzed: 03/14/25 00:10 Sequence: 211

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5219.081	5255.147	5201.729	5200.367
YTTRIUM	360.073	Axial	57157.22	56694.94	56965.47	57811.25
YTTRIUM	360.073	Radial	5094.685	5046.210	5148.236	5089.608
INDIUM	230.606	Axial	1268.523	1262.625	1263.174	1279.771

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CALCIUM	317.933	Radial	2196.985	9.690927	9.725765	9.666750	9.680265
MAGNESIUM	279.079	Radial	767.9406	8.828068	8.866912	8.773566	8.843728
SODIUM	589.592	Radial	226.3169	0.7615421	0.7600486	0.7701008	0.7544768
ALUMINUM	308.215	Radial	1507.542	26.49745	26.69041	26.36256	26.43937
ANTIMONY	206.833	Axial	0.4543395	-0.002529915	0.0004308124	-0.005003073	-0.003017485
ARSENIC	189.042	Axial	4.032951	0.01137251	0.008383082	0.009547099	0.01618736
BARIUM	233.527	Axial	1478.530	0.2510742	0.2459544	0.2525291	0.2547391
BERYLLIUM	313.042	Radial	31.53835	0.001909806	0.001964520	0.001898403	0.001866495
BORON	249.678	Radial	-0.09627131	-0.002863291	-0.006761486	0.002683548	-0.004511936
CADMIUM	228.802	Axial	-0.3480736	0.0007242329	0.000005222830	0.001728634	0.0004388417
CERIUM	535.353	Radial	20.84549	0.1116023	0.06702430	0.1468081	0.1209745
CHROMIUM	267.716	Axial	98.01928	0.03940635	0.03856617	0.03891035	0.04074252
COBALT	228.616	Axial	16.24887	0.01747908	0.01814195	0.01642415	0.01787114
COPPER	324.754	Axial	483.2334	0.1056177	0.1052483	0.1054217	0.1061830
IRON	271.441	Radial	1189.982	64.31110	64.54742	63.71088	64.67501
LANTHANUM	333.749	Radial	33.46300	0.06455010	0.06329585	0.06147107	0.06888339
LEAD	220.353	Axial	13.48893	0.02862758	0.02686727	0.03141690	0.02759858
LITHIUM	670.784	Radial	56.67699	0.01793278	0.02018013	0.01550916	0.01810905
MANGANESE	257.610	Axial	19876.67	0.9279389	0.9061430	0.9324117	0.9452620
MOLYBDENUM	202.030	Axial	2.077111	0.002629290	0.003718816	0.003386842	0.0007822130
NICKEL	231.604	Axial	29.91134	0.03394672	0.03425873	0.03337301	0.03420841
PHOSPHORUS	177.495	Axial	417.8593	2.254599	2.192275	2.283598	2.287923
POTASSIUM	766.490	Radial	190.3562	2.232649	2.289416	2.162720	2.245812
SELENIUM	196.090	Axial	1.025542	0.001012195	0.006860023	0.003173586	-0.006997022
SILICON	251.611	Axial	7941.924	7.760041	7.846573	7.634409	7.799142
SILVER	328.068	Axial	-13.5492	0.00004961539	0.0007831712	0.001019824	-0.001654149
STRONTIUM	421.552	Radial	338.0789	0.03198408	0.03213677	0.03165245	0.03216304
SULFUR	182.034	Axial	17.31358	0.2501783	0.2526132	0.2388793	0.2590424
THALLIUM	190.856	Axial	-0.5481117	-0.006121560	-0.005539840	-0.007144520	-0.005680321
TIN	189.989	Axial	0.5409585	0.001919988	0.002430570	0.001563579	0.001765816
TITANIUM	334.941	Radial	1140.632	0.6856203	0.6914665	0.6802812	0.6851133
VANADIUM	292.402	Radial	93.20233	0.1538214	0.1551524	0.1473294	0.1589824
ZINC	206.200	Axial	291.7304	0.07797206	0.07699845	0.07772495	0.07919278

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/14/25 00:12 Sequence: 212 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5165.735	5209.410	5182.582	5105.213
YTTRIUM	360.073	Axial	55669.76	55446.88	55659.12	55903.29
YTTRIUM	360.073	Radial	5046.247	5057.537	5035.043	5046.161
INDIUM	230.606	Axial	1235.814	1230.613	1232.658	1244.173

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	558.2548	9.941183	9.968402	9.902597	9.952550
ANTIMONY	206.833	Axial	65.46396	0.5087391	0.5010123	0.5063874	0.5188175
ARSENIC	189.042	Axial	193.5692	1.012141	0.9919398	1.017387	1.027097
BARIUM	233.527	Axial	3046.351	0.5216400	0.5129609	0.5215660	0.5303932
BERYLLIUM	313.042	Radial	3241.963	0.2051274	0.2055667	0.2048820	0.2049335
BORON	249.678	Radial	208.4377	1.007730	1.000445	1.015422	1.007324
CADMIUM	228.802	Axial	1095.779	0.5153252	0.5063520	0.5154310	0.5241925
CALCIUM	373.690	Radial	5154.187	52.59548	52.35897	52.71884	52.70863
CHROMIUM	267.716	Axial	2392.460	1.025471	1.009009	1.025799	1.041604
COBALT	228.616	Axial	972.1469	0.9960075	0.9918692	0.9994482	0.9967053
COPPER	324.754	Axial	4696.651	1.044619	1.041602	1.047048	1.045208
IRON	259.940	Radial	2507.332	10.25041	10.19878	10.32713	10.22534
LEAD	220.353	Axial	227.6432	0.5109090	0.5094238	0.5067969	0.5165063
LITHIUM	670.784	Radial	1036.964	0.9413813	0.9523530	0.9261158	0.9456752
MAGNESIUM	279.079	Radial	879.3121	10.20089	10.17007	10.20387	10.22872
MANGANESE	257.610	Axial	21850.19	1.030588	1.020541	1.028198	1.043026
MOLYBDENUM	202.030	Axial	145.6369	0.2611257	0.2555132	0.2626941	0.2651697
NICKEL	231.604	Axial	884.1597	0.9915083	0.9893697	0.9947148	0.9904403
PHOSPHORUS	177.495	Axial	187.5014	1.015461	1.003948	1.014681	1.027754
POTASSIUM	766.490	Radial	4862.440	50.66009	50.45933	50.76988	50.75108
SELENIUM	196.090	Axial	147.7148	1.007698	0.9989853	1.008946	1.015163
SILICON	251.611	Axial	2061.521	2.063523	2.024601	2.061612	2.104355
SILVER	328.068	Axial	2091.934	0.5665798	0.5694874	0.5746495	0.5556025
SODIUM	818.326	Radial	423.8237	48.31111	48.50457	48.70728	47.72148
STRONTIUM	421.552	Radial	10670.53	1.022516	1.029006	1.012506	1.026036
SULFUR	182.034	Axial	261.9478	4.950128	4.904927	4.958592	4.986866
THALLIUM	190.856	Axial	171.5293	1.052105	1.044652	1.051908	1.059756
TIN	189.989	Axial	194.7949	0.5037791	0.5062974	0.5055022	0.4995377
TITANIUM	334.941	Radial	1671.598	1.013463	1.022741	1.012342	1.005306
VANADIUM	292.402	Radial	610.8057	1.017264	1.019426	1.016322	1.016043
ZINC	206.200	Axial	2403.819	1.027571	1.000103	1.011575	1.071035
CERIUM	535.353	Radial	9.053716	-0.02202185	-0.01616975	-0.008849742	-0.04104605
LANTHANUM	333.749	Radial	-4.79092	-0.008155935	-0.01040703	-0.002469737	-0.01159103

Sample ID: CCB Units: mg/l
Analyzed: 03/14/25 00:14 Sequence: 213

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5039.464	5060.868	5032.894	5024.631
YTTRIUM	360.073	Axial	55525.43	56110.07	55123.45	55342.77
YTTRIUM	360.073	Radial	4992.093	4941.263	5030.233	5004.783
INDIUM	230.606	Axial	1281.581	1286.291	1281.390	1277.062

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-3.48673	-0.006048051	0.01591130	-0.007639049	-0.02641640
ANTIMONY	206.833	Axial	1.151876	0.003211724	0.01116018	-0.001348811	-0.0001761950
ARSENIC	189.042	Axial	2.262931	0.002525928	0.006822166	0.001865147	-0.001109528
BARIUM	233.527	Axial	-2.64778	0.0004918976	0.001104146	0.0003103929	0.00006115346
BERYLLIUM	313.042	Radial	3.560237	0.0001595916	0.00001261114	0.0001476356	0.0003185281
BORON	249.678	Radial	1.099254	0.003051158	0.008927613	-0.003020057	0.003245917
CADMIUM	228.802	Axial	-2.02757	-0.00008997175	-0.001112595	0.0004885347	0.0003541447
CALCIUM	317.933	Radial	21.33757	-0.0006865107	0.008318277	-0.009236168	-0.001141642
CERIUM	535.353	Radial	6.560484	-0.05012807	-0.06098991	-0.001206564	-0.08818773
CHROMIUM	267.716	Axial	7.016403	0.0008178380	0.002260480	0.00005808275	0.0001349508
COBALT	228.616	Axial	-0.6377955	0.0006519285	0.001437527	0.0006246837	-0.0001064255
COPPER	324.754	Axial	-1.90486	0.0006189070	0.0002561313	0.00008608984	0.001514500
IRON	259.940	Radial	1.729482	-0.005357567	-0.005833718	-0.005039543	-0.005199440
LANTHANUM	333.749	Radial	-1.64007	-0.002141070	0.001128235	-0.003550737	-0.004000708
LEAD	220.353	Axial	0.6291237	0.0004376512	0.002177187	-0.001309178	0.0004449452
LITHIUM	670.784	Radial	34.34490	-0.002237948	0.0009452421	-0.002114577	-0.005544509
MAGNESIUM	279.079	Radial	-1.75780	0.006163790	0.009897026	0.006476478	0.002117865
MANGANESE	257.610	Axial	3.644381	0.0002974091	0.0004910040	0.0002531810	0.0001480424
MOLYBDENUM	202.030	Axial	1.916995	0.002465203	0.004217188	0.002871123	0.0003072978
NICKEL	231.604	Axial	-0.7241673	0.0005303352	0.0009799039	0.0002054736	0.0004056280
PHOSPHORUS	177.495	Axial	2.342519	0.0009987987	-0.001691501	0.0003823489	0.004305548
POTASSIUM	766.490	Radial	-15.9871	0.1113015	0.1166281	0.05835304	0.1589234
SELENIUM	196.090	Axial	1.918465	0.007569982	0.003805244	0.008746092	0.01015861
SILICON	251.611	Axial	11.36306	0.005283772	0.005108909	0.003472398	0.007270010
SILVER	328.068	Axial	-14.9282	-0.0004344168	-0.0008999274	-0.0005574603	0.0001541372
SODIUM	589.592	Radial	30.47062	0.2438610	0.2508362	0.2419737	0.2387732
STRONTIUM	421.552	Radial	1.422024	0.00002565167	-0.0002343051	0.0004638538	-0.0001525937
SULFUR	182.034	Axial	5.267385	0.02486186	0.02642323	0.02201554	0.02614681
THALLIUM	190.856	Axial	0.4900456	0.00006934383	-0.001110025	0.003858369	-0.002540312
TIN	189.989	Axial	-0.09742820	0.0003193169	-0.001930988	0.001408577	0.001480362
TITANIUM	334.941	Radial	-2.06399	0.0006149142	0.002154663	-0.00005102906	-0.0002588910
VANADIUM	292.402	Radial	-0.2220030	-0.0003289210	-0.0006892697	0.003416214	-0.003713707
ZINC	206.200	Axial	111.3222	-0.0004158375	-0.0005573901	-0.0004762955	-0.0002138268

Sample ID: ICSA Units: mg/l
Analyzed: 03/14/25 01:11 Sequence: 246 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4988.005	4986.044	5050.006	4927.964
YTTRIUM	360.073	Axial	51337.16	50982.61	51754.96	51273.91
YTTRIUM	360.073	Radial	4721.606	4696.522	4715.984	4752.311
INDIUM	230.606	Axial	1039.317	1025.631	1049.902	1042.419

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	27733.65	524.8985	525.8113	523.5908	525.2934
ANTIMONY	206.833	Axial	-0.05782723	-0.006535436	-0.003687142	-0.006798950	-0.009120217
ARSENIC	189.042	Axial	0.4408689	-0.007273179	-0.007968713	-0.01000009	-0.003850727
BARIUM	233.527	Axial	8.381962	0.002438140	0.002778221	0.002582814	0.001953386
BERYLLIUM	313.042	Radial	2.102030	0.00007453880	0.00001360762	0.0001431649	0.00006684393
BORON	249.678	Radial	-6.50233	-0.03604740	-0.03266067	-0.04192568	-0.03355586
CADMIUM	228.802	Axial	-2.36152	-0.0002666580	0.0001772359	-0.0002158205	-0.0007613893
CALCIUM	373.690	Radial	48493.75	528.9629	528.9806	529.0283	528.8797
CERIUM	535.353	Radial	11.27564	0.01250357	0.009995481	-0.01602722	0.04354245
CHROMIUM	267.716	Axial	6.071309	0.0004314338	0.001522847	0.00002341206	-0.0002519575
COBALT	228.616	Axial	1.320571	0.002879864	0.001152066	0.003146678	0.004340848
COPPER	324.754	Axial	-9.96296	-0.001356644	-0.001095331	-0.001720971	-0.001253630
IRON	271.441	Radial	3542.891	206.7908	205.7464	208.6053	206.0205
LANTHANUM	333.749	Radial	-0.6688585	-0.0003717154	-0.003740866	-0.003652105	0.006277825
LEAD	220.353	Axial	-0.2352011	-0.001637710	-0.01400871	0.005894083	0.003201492
LITHIUM	670.784	Radial	31.02028	-0.003709644	-0.001761502	-0.001054402	-0.008313027
MAGNESIUM	279.079	Radial	42635.28	527.2606	527.8102	526.4812	527.4904
MANGANESE	257.610	Axial	-133.400	-0.006395482	-0.005908249	-0.006348195	-0.006930003
MOLYBDENUM	202.030	Axial	2.740310	0.004035299	0.007100588	0.003274125	0.001731185
NICKEL	231.604	Axial	0.9041247	0.002522533	0.002852245	0.0009939646	0.003721390
PHOSPHORUS	177.495	Axial	1.022526	-0.006383030	-0.003008390	-0.005633980	-0.01050672
POTASSIUM	766.490	Radial	-2.22483	0.2539778	0.2493386	0.2538518	0.2587430
SELENIUM	196.090	Axial	-0.4679439	-0.009345488	-0.007369814	0.0005004917	-0.02116714
SILICON	251.611	Axial	-2.67841	-0.009073334	-0.008656933	-0.007438600	-0.01112447
SILVER	328.068	Axial	8.551644	0.006084927	0.006745110	0.007159811	0.004349861
SODIUM	589.592	Radial	69.93667	0.3615137	0.3545039	0.3804015	0.3496357
STRONTIUM	421.552	Radial	70.03043	0.007063311	0.007231208	0.007023173	0.006935552
SULFUR	182.034	Axial	5.030478	0.02127010	0.02260523	0.01490883	0.02629624
THALLIUM	190.856	Axial	-0.7231952	-0.008107350	-0.004395254	-0.006889150	-0.01303764
TIN	189.989	Axial	0.6881741	0.002661944	0.0008298375	0.002607521	0.004548472
TITANIUM	334.941	Radial	-9.55357	-0.004310720	-0.005351529	-0.003310148	-0.004270483
VANADIUM	292.402	Radial	1.181428	0.002147975	0.002416009	-0.001191425	0.005219342
ZINC	206.200	Axial	224.3722	0.05267255	0.05175451	0.05182129	0.05444185

Sample ID: ICSAB Units: mg/l
Analyzed: 03/14/25 01:13 Sequence: 247 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5065.082	5024.579	5071.058	5099.610
YTTRIUM	360.073	Axial	52154.59	52116.25	52169.32	52178.20
YTTRIUM	360.073	Radial	4775.445	4795.142	4815.447	4715.746
INDIUM	230.606	Axial	1059.934	1068.585	1054.310	1056.908

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28364.56	530.8171	532.2212	525.2392	534.9907
ANTIMONY	206.833	Axial	61.45695	0.4867599	0.4870005	0.4798772	0.4934020
ARSENIC	189.042	Axial	91.18284	0.4811975	0.4900303	0.4792259	0.4743363
BARIUM	233.527	Axial	2905.537	0.5073921	0.5087746	0.5082536	0.5051480
BERYLLIUM	313.042	Radial	7877.820	0.5268507	0.5292204	0.5209855	0.5303462
BORON	249.678	Radial	196.6700	1.004826	1.002244	0.9943221	1.017912
CADMIUM	228.802	Axial	2081.415	0.9973962	1.005309	0.9961329	0.9907466
CALCIUM	373.690	Radial	49619.47	535.1570	537.6474	530.7292	537.0943
CERIUM	535.353	Radial	9.878008	-0.005784551	-0.03539033	-0.01870702	0.03674369
CHROMIUM	267.716	Axial	1142.110	0.4980678	0.5020218	0.4976058	0.4945759
COBALT	228.616	Axial	456.3696	0.5457743	0.5376813	0.5507353	0.5489061
COPPER	324.754	Axial	2188.725	0.5201480	0.5188236	0.5208945	0.5207258
IRON	271.441	Radial	3584.025	206.8235	207.3621	207.7060	205.4025
LANTHANUM	333.749	Radial	-4.57131	-0.008218972	-0.01047257	-0.009121434	-0.005062915
LEAD	220.353	Axial	402.0314	1.053114	1.033767	1.063427	1.062146
LITHIUM	670.784	Radial	29.02951	-0.006064563	-0.004230562	-0.006399269	-0.007563857
MAGNESIUM	279.079	Radial	43532.53	532.3138	532.6270	528.1711	536.1431
MANGANESE	257.610	Axial	10499.68	0.5050902	0.5036404	0.5073194	0.5043106
MOLYBDENUM	202.030	Axial	260.1780	0.4766264	0.4851473	0.4735229	0.4712091
NICKEL	231.604	Axial	819.5358	1.071468	1.061743	1.073961	1.078700
PHOSPHORUS	177.495	Axial	0.9187955	-0.007031324	-0.008498626	-0.002872056	-0.009723289
POTASSIUM	766.490	Radial	3.998809	0.3221713	0.3793302	0.3118021	0.2753817
SELENIUM	196.090	Axial	70.09831	0.4846693	0.4978480	0.4756770	0.4804827
SILICON	251.611	Axial	890.1417	0.9477985	0.9645195	0.9412766	0.9375994
SILVER	328.068	Axial	3577.681	1.031265	0.9679436	1.077332	1.048520
SODIUM	589.592	Radial	79.29150	0.3856778	0.3989927	0.3790346	0.3790059
STRONTIUM	421.552	Radial	73.24971	0.007308409	0.007510911	0.007075031	0.007339284
SULFUR	182.034	Axial	5.301105	0.02502610	0.03014971	0.02545231	0.01947630
THALLIUM	190.856	Axial	72.59219	0.5177193	0.5170123	0.5159415	0.5202042
TIN	189.989	Axial	174.4141	0.5258918	0.5229484	0.5284480	0.5262790
TITANIUM	334.941	Radial	805.6468	0.5171160	0.5174111	0.5104028	0.5235343
VANADIUM	292.402	Radial	288.6616	0.5080595	0.5054334	0.5073137	0.5114315
ZINC	206.200	Axial	2203.034	0.9569459	0.9816440	0.9513503	0.9378433

3051 MW ICP SS Metals Prep Benchsheet

Workgroup: WG2467988

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25
L1834998	WG2467485	CLC4087	PREPREPBAL2	12-MAR-25
L1835011	WG2467458	CLC4087	PREPREPBAL4	03/13/25 09:16:36
L1835075	WG2467778	KMT967	PREPREPBAL2	12-MAR-25
L1835078	WG2467754	KMT967	PREPREPBAL4	12-MAR-25

Prep Start Date/Time: 03/13/25 10:23-10:25 **Prep End Date/Time:** 03/13/25 12:54 **Balance ID:** METBAL7 **Analyst:** BAR4050 **Carousel ID:** 3
Microwave ID: MY2714 **Dig. Start Date/Time:** 03/13/25 13:00:02 **Pipette ID:** VU22968 **SOP:** ENV-SOP-MTJL-0217 **Method:** 3051
Digestion Chips Lot #: 25C12838 **Pipette Tip Lot#:** 24440172

Nitric Acid: 25C12738 Amt. Used: 4.50 mL Exp. Date:09/12/25 **Hydrochloric Acid:** 25C12739 Amt. Used: 1.50 mL Exp. Date:09/12/25
High Spike: 25B24106 Amt. Used: 0.50 mL Exp. Date:08/24/25 **High Spike 2:** 25B24107 Amt. Used: 0.50 mL Exp. Date:08/24/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Initial Vessel Mass (g)	Final Vessel Mass (g)	Sample Description	Box ID	Review Analyst	Review Date
BLANK	0.51	50	150.24	150.21	PELLETS		BAR4050	03/13/25 13:48:06
LCS	0.52	50	152.16	152.15	PELLETS		BAR4050	03/13/25 13:48:06
MS(L1835075-03)	0.53	50	153.60	153.57	SOIL	Wed-5/PP2 0312	BAR4050	03/13/25 13:48:06
MSD(L1835075-03)	0.51	50	153.56	153.55	SOIL	Wed-5/PP2 0312	BAR4050	03/13/25 13:48:06
1. L1834664-01	0.50	50	153.39	153.37	SOIL	PP2 0312	BAR4050	03/13/25 13:48:06
2. L1834664-02	0.49	50	154.24	154.22	SOIL	PP2 0312	BAR4050	03/13/25 13:48:06
3. L1834664-03	0.50	50	147.12	147.10	SOIL	PP2 0312	BAR4050	03/13/25 13:48:06
4. L1834664-04	0.50	50	154.17	154.14	SOIL	PP2 0312	BAR4050	03/13/25 13:48:06
5. L1834664-11	0.50	50	150.09	150.05	SOIL	PP2 0312	BAR4050	03/13/25 13:48:06
6. L1834998-09	0.55	50	148.89	148.87	SOIL	WED 4 - PP2 3/12	BAR4050	03/13/25 13:48:06
7. L1835011-01	0.53	50	149.29	149.27	SOIL		BAR4050	03/13/25 13:48:06
8. L1835011-02	0.51	50	150.87	150.86	SOIL		BAR4050	03/13/25 13:48:06
9. L1835011-03	0.54	50	155.18	155.16	SOIL		BAR4050	03/13/25 13:48:06
10. L1835075-01	0.51	50	152.98	152.97	SOIL	Wed-5/PP2 0312	BAR4050	03/13/25 13:48:06
11. L1835075-02	0.47	50	149.39	149.34	SOIL	Wed-5/PP2 0312	BAR4050	03/13/25 13:48:06
12. L1835075-03	0.52	50	147.50	147.46	SOIL	Wed-5/PP2 0312	BAR4050	03/13/25 13:48:06
13. L1835075-04	0.53	50	152.25	152.22	SOIL	Wed-5/PP2 0312	BAR4050	03/13/25 13:48:06
14. L1835078-01	0.52	50	149.68	149.66	SOIL		BAR4050	03/13/25 13:48:06
15. L1835078-02	0.52	50	153.60	153.57	SOIL		BAR4050	03/13/25 13:48:06
16. L1835078-03	0.52	50	150.42	150.40	SOIL		BAR4050	03/13/25 13:48:06
17. L1835078-04	0.49	50	150.88	150.82	SOIL		BAR4050	03/13/25 13:48:06
18. L1835078-05	0.50	50	149.18	149.15	SOIL		BAR4050	03/13/25 13:48:06
19. L1835078-06	0.54	50	153.86	153.85	SOIL		BAR4050	03/13/25 13:48:06

Comments:
Peer reviewed. -AXP4121

Reviewed By:BAR4050 on 03/13/25 13:48:06

3050B ICP SS Metals Prep Benchsheet

Workgroup: WG2468048

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25
L1834825	WG2467281	CLC4087	PREPREPBAL2	12-MAR-25
L1834933	WG2467797	CMW844	PREPREPBAL4	12-MAR-25

Prep Start Date/Time: 03/13/25 08:26 **Analyst:** SRC4252 **Balance ID:** METBAL6 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Pipette ID:** 101109445
Hotblock ID: MPD **Digestion Chips Lot #:** 25C06845 **Thermometer ID#:** 718470 **Thermometer Location:** G4 **Prep Start Analyst:** SRC4252
Dig. Start Date/Time: 03/13/25 08:55:00 **Prep End Date/Time:** 03/14/25 08:04 **Prep End Analyst:** SRC4252 **Dig. End Date/Time:** 03/13/25 13:25:00
Pipette Tip Lot#: 24440172 **Method:** 3050B **SOP:** ENV-SOP-MTJL-0217 **Sieve ID:** N/A **Sieve Size:** N/A

1:1 Nitric Acid: 25C12740 Amt. Used: 5 mL Exp. Date:08/06/25 **Nitric Acid:** 25C12738 Amt. Used: 2.50 mL Exp. Date:09/12/25
Hydrogen Peroxide: 25C10403 Amt. Used: 1.50 mL Exp. Date:09/10/25 **Hydrochloric Acid:** 25C12739 Amt. Used: 2.50 mL Exp. Date:09/12/25
High Spike: 25B24106 Amt. Used: 0.50 mL Exp. Date:08/24/25 **High Spike 2:** 25B24107 Amt. Used: 0.50 mL Exp. Date:08/24/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Box ID	Spike Factor	Review Analyst	Review Date
BLANK	0.53	50	PELLETS		1	BRL4063	03/14/25 08:05:10
LCS	0.48	50	PELLETS		1	BRL4063	03/14/25 08:05:10
MS(L1834825-01)	0.46	50	SOIL	WED 2 - PP2 3/12	1	BRL4063	03/14/25 08:05:10
MSD(L1834825-01)	0.48	50	SOIL	WED 2 - PP2 3/12	1	BRL4063	03/14/25 08:05:10
1. L1834664-05	0.49	50	SOIL	PP2 0312	1	BRL4063	03/14/25 08:05:10
2. L1834664-06	0.48	50	SOIL	PP2 0312	1	BRL4063	03/14/25 08:05:10
3. L1834664-07	0.53	50	SOIL	PP2 0312	1	BRL4063	03/14/25 08:05:10
4. L1834664-08	0.50	50	SOIL	PP2 0312	1	BRL4063	03/14/25 08:05:10
5. L1834664-09	0.51	50	SOIL	PP2 0312	1	BRL4063	03/14/25 08:05:10
6. L1834664-10	0.50	50	SOIL	PP2 0312	1	BRL4063	03/14/25 08:05:10
7. L1834825-01	0.48	50	SOIL	WED 2 - PP2 3/12	1	BRL4063	03/14/25 08:05:10
8. L1834825-02	0.51	50	SOIL	WED 2 - PP2 3/12	1	BRL4063	03/14/25 08:05:10
9. L1834825-03	0.46	50	SOIL	WED 2 - PP2 3/12	1	BRL4063	03/14/25 08:05:10
10. L1834825-04	0.52	50	SOIL	WED 2 - PP2 3/12	1	BRL4063	03/14/25 08:05:10
11. L1834933-01	0.50	50	SOIL		1	BRL4063	03/14/25 08:05:10

Comments:
PEER REVIEWED BY BAR4050

Reviewed By:BRL4063 on 03/14/25 08:05:10

#	Type	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Hotblock	0.0	03/13/25 08:55:00	94	94	03/13/25 13:25:00	94	94	BLANK, LCS, MS(L1834825-01), MSD(L1834825-01), L1834664-05, L1834664-06, L1834664-07, L1834664-08, L1834664-09, L1834664-10, L1834825-01, L1834825-02, L1834825-03, L1834825-04, L1834933-01

7471B Mercury

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1834664-01	**SDG:**	L1834664
Client Sample ID:	MONTROSE_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250314130232	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:14
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 13:02
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	77.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0265	0.0515

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1834664-02	**SDG:**	L1834664
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250314130512	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:14
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 13:05
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.29 g
Total Solids (%):	75.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0273	0.0530

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
650_851_S_SO

Lab Sample ID:	L1834664-03	**SDG:**	L1834664
Client Sample ID:	650_851_S_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	20250314130750	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:14
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 13:07
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.34 g
Total Solids (%):	72.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0286	0.0556

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834664-04	**SDG:**	L1834664
Client Sample ID:	601_T_S_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	20250314131029	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:14
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 13:10
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.33 g
Total Solids (%):	69.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0295	0.0573

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
250_651_S_SO

Lab Sample ID:	L1834664-05	**SDG:**	L1834664
Client Sample ID:	250_651_S_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	20250314131308	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:14
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 13:13
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.34 g
Total Solids (%):	61.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0333	0.0647

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1834664-06	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	20250314131548	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:14
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 13:15
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	67.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0304	0.0590

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1834664-07	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	20250314131827	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:14
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 13:18
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	69.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.0499	J	0.0298	0.0579

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_FRONT_PLAY GROUND_S_SO

Lab Sample ID:	L1834664-08	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	20250314132911	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:14
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 13:29
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.29 g
Total Solids (%):	68.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0300	0.0582

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_S_SO

Lab Sample ID:	L1834664-09	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	20250314133150	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:14
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 13:31
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.29 g
Total Solids (%):	67.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0307	0.0596

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_S_SO

Lab Sample ID:	L1834664-10	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_TRACK_S_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	20250314133429	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:14
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 13:34
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.31 g
Total Solids (%):	67.3	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0306	0.0594

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_S_SO

Lab Sample ID:	L1834664-11	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DUP_S_SO	**Collected Date/Time:**	03/10/25 17:05
Lab File ID:	20250314203721	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:19
Analytical Batch:	WG2468220	**Analysis Date/Time:**	03/14/25 20:37
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.28 g
Total Solids (%):	72.3	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0285	0.0553

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186568-1	**SDG:**	L1834664
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250314123848	**Received Date/Time:**	_____
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:10
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 12:38
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186734-1	**SDG:**	L1834664
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250314165441	**Received Date/Time:**	_____
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:15
Analytical Batch:	WG2468220	**Analysis Date/Time:**	03/14/25 16:54
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186568-2	**SDG:**	L1834664
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250314124126	**Received Date/Time:**	_____
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:10
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 12:41
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.504		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186734-2	**SDG:**	L1834664
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250314165722	**Received Date/Time:**	_____
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:15
Analytical Batch:	WG2468220	**Analysis Date/Time:**	03/14/25 16:57
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.566		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186568-4	**SDG:**	L1834664
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 11:15
Lab File ID:	20250314125434	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:10
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 12:54
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.32 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.489		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186734-4	**SDG:**	L1834664
Client Sample ID:	MS	**Collected Date/Time:**	03/06/25 13:40
Lab File ID:	20250314170502	**Received Date/Time:**	03/10/25 10:30
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:15
Analytical Batch:	WG2468220	**Analysis Date/Time:**	03/14/25 17:05
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.32 g
Total Solids (%):	88.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Mercury	7439-97-6	0.611		0.0232	0.0451

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186568-5	**SDG:**	L1834664
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 11:15
Lab File ID:	20250314125712	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:10
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 12:57
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.31 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.534		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186734-5	**SDG:**	L1834664
Client Sample ID:	MSD	**Collected Date/Time:**	03/06/25 13:40
Lab File ID:	20250314170743	**Received Date/Time:**	03/10/25 10:30
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:15
Analytical Batch:	WG2468220	**Analysis Date/Time:**	03/14/25 17:07
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.32 g
Total Solids (%):	88.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Mercury	7439-97-6	0.616		0.0232	0.0451

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186568-3	**SDG:**	L1834664
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 11:15
Lab File ID:	20250314124643	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:14
Analytical Batch:	WG2467835	**Analysis Date/Time:**	03/14/25 12:46
Dilution Factor:	5	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.32 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.103	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186734-3	**SDG:**	L1834664
Client Sample ID:	SD	**Collected Date/Time:**	03/06/25 13:40
Lab File ID:	20250314170243	**Received Date/Time:**	03/10/25 10:30
Instrument ID:	CVAA10	**Preparation Date/Time:**	03/13/25 13:19
Analytical Batch:	WG2468220	**Analysis Date/Time:**	03/14/25 17:02
Dilution Factor:	5	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.34 g
Total Solids (%):	88.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Mercury	7439-97-6	U		0.116	0.225

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/14/25 10:59
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/14/25 11:12
Analytical Method:	7471B	**Analytical Run:**	031425CVAA10 S
Concentration Units:	mg/kg		

		ICV				ICVLL				CCV			
Sample ID:		CVAA100314251120				CVAA100314251131				CVAA100314251218			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.005187421	104	1.620000	0.0002	0.0001734293	86.70	2.840000	0.0050	0.004884492	97.70	2.740000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/14/25 10:59
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/14/25 11:12
Analytical Method:	7471B	**Analytical Run:**	031425CVAA10 S
Concentration Units:	mg/kg		

		CCV				**CCV**				**CCV**			
Sample ID:		CVAA100314251249				CVAA100314251321				CVAA100314251428			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.005054647	101	3.380000	0.0050	0.005345067	107	2.420000	0.0050	0.004830636	96.60	3.230000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/14/25 10:59
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/14/25 11:12
Analytical Method:	7471B	**Analytical Run:**	031425CVAA10 S
Concentration Units:	mg/kg		

		CCV				CCV				CCV			
Sample ID:		CVAA100314251638				CVAA100314251710				CVAA100314252015			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.005383785	108	6.530000	0.0050	0.005481826	110	1.220000	0.0050	0.005444916	109	1.820000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/14/25 10:59
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/14/25 11:12
Analytical Method:	7471B	**Analytical Run:**	031425CVAA10 S
Concentration Units:	mg/kg		

CCV

Sample ID: CVAA100314252048

Analyte	True	Found	%R	%RSD
MERCURY	0.0050	0.005266682	105	7.630000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110

SDG:	L1834664	**Calibration (begin) date/time:**	03/14/25 10:59
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/14/25 11:12
Analytical Method:	7471B	**Analytical Run:**	031425CVAA10 S

	Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
	File ID:	20250314112324		20250314122040		20250314123848		20250314125158	
Analyte		mg/kg		mg/kg		mg/kg		mg/kg	
MERCURY		-0.00004053555	U	-0.00003905617	U	U		-0.00003325981	U

SDG:	L1834664	**Calibration (begin) date/time:**	03/14/25 10:59
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/14/25 11:12
Analytical Method:	7471B	**Analytical Run:**	031425CVAA10 S

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**
File ID:	20250314132345		20250314143308		20250314164124		20250314165441	
Analyte	mg/kg		mg/kg		mg/kg		mg/kg	
MERCURY	-0.00003952007	U	-0.00004648733	U	-0.00002922179	U	U	

SDG:	L1834664	**Calibration (begin) date/time:**	03/14/25 10:59
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/14/25 11:12
Analytical Method:	7471B	**Analytical Run:**	031425CVAA10 S

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250314171302		20250314201835		20250314205127	
Analyte	mg/kg		mg/kg		mg/kg	
MERCURY	-0.00002387995	U	-0.00003062458	U	-0.00003286192	U

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834664-01,02,03,04,05,06,07,08,09,10

SAMPLE NO.:
R4186568-4
R4186568-5

MS Sample / File ID:	R4186568-4 / 20250314125434	**SDG:**	L1834664
MSD Sample / File ID:	R4186568-5 / 20250314125712	**Analytical Batch:**	WG2467835
OS Sample / File ID:	L1835011-01 / 20250314124404	**Matrix:**	Solid
Instrument ID:	CVAA10		
Analytical Method:	7471B		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Mercury	0.500	U	0.489	0.534	97.9	107	1	75.0 - 125	8.75	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834664-11

SAMPLE NO.:
R4186734-4
R4186734-5

MS Sample / File ID:	R4186734-4 / 20250314170502	**SDG:**	L1834664
MSD Sample / File ID:	R4186734-5 / 20250314170743	**Analytical Batch:**	WG2468220
OS Sample / File ID:	L1834249-22 / 20250314170002	**Matrix:**	Solid
Instrument ID:	CVAA10		
Analytical Method:	7471B		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg				%	%		%	%	%
Mercury	0.563	U	0.611	0.616	108	109	1	75.0 - 125	0.924	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1834664-01,02,03,04,05,06,07,08,09,10

SAMPLE NO.:
R4186568-2

LCS Sample / File ID:	R4186568-2 / 20250314124126	**SDG:**	L1834664
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467835
Instrument ID:	CVAA10	**Dilution Factor:**	1
Analytical Method:	7471B	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Mercury	0.500	0.504		101		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1834664-11

SAMPLE NO.:
R4186734-2

LCS Sample / File ID:	R4186734-2 / 20250314165722	**SDG:**	L1834664
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2468220
Instrument ID:	CVAA10	**Dilution Factor:**	1
Analytical Method:	7471B	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Mercury	0.500	0.566		113		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4186568-3 / 20250314124643	**SDG:**	L1834664
OS Sample / File ID:	L1835011-01 / 20250314124404	**Analytical Batch:**	WG2467835
Lab File ID:	20250314124643	**Dilution Factor:**	5
Instrument ID:	CVAA10	**Matrix:**	Solid
Analytical Method:	7471B		

Analyte	**OS Result**	**SD Result**	**RPD**	**RPD Limits**
	mg/kg	*mg/kg*	*%*	*%*
Mercury	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4186734-3 / 20250314170243	**SDG:**	L1834664
OS Sample / File ID:	L1834249-22 / 20250314170002	**Analytical Batch:**	WG2468220
Lab File ID:	20250314170243	**Dilution Factor:**	5
Instrument ID:	CVAA10	**Matrix:**	Solid
Analytical Method:	7471B		

Analyte	OS Result (dry)	SD Result (dry)	RPD	RPD Limits
			%	%
Mercury	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1834664-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 7471B

Matrix: Solid **Prep Method:** 7471A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Mercury	7439-97-6		253.70	0.0206	0.04

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	7471B
Instrument ID:	CVAA10	**Calibration Start Date:**	03/14/25 10:59
Analytical Run:	031425CVAA10 S	**Calibration End Date:**	03/14/25 11:12

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	CVAA100314251056	20250314105645	03/14/25 10:56		
CAL	STD 0.2	20250314105921	03/14/25 10:59		
CAL	STD 0.4	20250314110159	03/14/25 11:01		
CAL	STD 1.0	20250314110437	03/14/25 11:04		
CAL	STD 2.0	20250314110716	03/14/25 11:07		
CAL	STD 5.0	20250314110955	03/14/25 11:09		
CAL	STD 10.0	20250314111232	03/14/25 11:12		
ICV	CVAA100314251120	20250314112045	03/14/25 11:20		
ICB	CVAA100314251123	20250314112324	03/14/25 11:23		
ICVLL	CVAA100314251131	20250314113117	03/14/25 11:31		
CCV	CVAA100314251218	20250314121803	03/14/25 12:18		
CCB	CVAA100314251220	20250314122040	03/14/25 12:20		
L1835587-06	L1835587-06	20250314122317	03/14/25 12:23	1	WG2468520
L1835652-01	L1835652-01	20250314122556	03/14/25 12:25	1	WG2468520
BLANK	R4186568-1	20250314123848	03/14/25 12:38	1	WG2467835
LCS	R4186568-2	20250314124126	03/14/25 12:41	1	WG2467835
OS	L1835011-01	20250314124404	03/14/25 12:44		
L1835011-01	L1835011-01	20250314124404	03/14/25 12:44	1	WG2467835
SD	R4186568-3	20250314124643	03/14/25 12:46	5	WG2467835
CCV	CVAA100314251249	20250314124920	03/14/25 12:49		
CCB	CVAA100314251251	20250314125158	03/14/25 12:51		
MS	R4186568-4	20250314125434	03/14/25 12:54	1	WG2467835
MSD	R4186568-5	20250314125712	03/14/25 12:57	1	WG2467835
L1833307-01	L1833307-01	20250314125952	03/14/25 12:59	1	WG2467835
MONTROSE_SCHOOL_DITCH_S_SO	L1834664-01	20250314130232	03/14/25 13:02	1	WG2467835
MONTROSE_SCHOOL_DRAINS_S_SO	L1834664-02	20250314130512	03/14/25 13:05	1	WG2467835
650_851_S_SO	L1834664-03	20250314130750	03/14/25 13:07	1	WG2467835
601_T_S_SO	L1834664-04	20250314131029	03/14/25 13:10	1	WG2467835
250_651_S_SO	L1834664-05	20250314131308	03/14/25 13:13	1	WG2467835
DAVIS_SCHOOL_DITCH_S_SO	L1834664-06	20250314131548	03/14/25 13:15	1	WG2467835
DAVIS_SCHOOL_DRAINS_S_SO	L1834664-07	20250314131827	03/14/25 13:18	1	WG2467835
CCV	CVAA100314251321	20250314132107	03/14/25 13:21		
CCB	CVAA100314251323	20250314132345	03/14/25 13:23		
PS	R4186565-7	20250314132628	03/14/25 13:26	1	WG2468520
DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	L1834664-08	20250314132911	03/14/25 13:29	1	WG2467835
DAVIS_SCHOOL_WPLAYGROUND_S_SO	L1834664-09	20250314133150	03/14/25 13:31	1	WG2467835
DAVIS_SCHOOL_TRACK_S_SO	L1834664-10	20250314133429	03/14/25 13:34	1	WG2467835
L1835011-02	L1835011-02	20250314133708	03/14/25 13:37	1	WG2467835
L1835011-03	L1835011-03	20250314133946	03/14/25 13:39	1	WG2467835
L1835078-01	L1835078-01	20250314134225	03/14/25 13:42	1	WG2467835
L1835078-02	L1835078-02	20250314134505	03/14/25 13:45	1	WG2467835
L1835078-03	L1835078-03	20250314134744	03/14/25 13:47	1	WG2467835
L1835078-04	L1835078-04	20250314135023	03/14/25 13:50	1	WG2467835
CCV	CVAA100314251428	20250314142847	03/14/25 14:28		
CCB	CVAA100314251433	20250314143308	03/14/25 14:33		
CCV	CVAA100314251638	20250314163846	03/14/25 16:38		

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	7471B
Instrument ID:	CVAA10	**Calibration Start Date:**	03/14/25 10:59
Analytical Run:	031425CVAA10 S	**Calibration End Date:**	03/14/25 11:12

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CCB	CVAA100314251641	20250314164124	03/14/25 16:41		
L1834004-91	L1834004-91	20250314164400	03/14/25 16:44	1	WG2467497
L1834004-92	L1834004-92	20250314164641	03/14/25 16:46	1	WG2467497
SD	R4186719-5	20250314164922	03/14/25 16:49	5	WG2467497
L1834004-84	L1834004-84	20250314165201	03/14/25 16:52	1	WG2467497
BLANK	R4186734-1	20250314165441	03/14/25 16:54	1	WG2468220
LCS	R4186734-2	20250314165722	03/14/25 16:57	1	WG2468220
OS	L1834249-22	20250314170002	03/14/25 17:00		
L1834249-22	L1834249-22	20250314170002	03/14/25 17:00	1	WG2468220
SD	R4186734-3	20250314170243	03/14/25 17:02	5	WG2468220
MS	R4186734-4	20250314170502	03/14/25 17:05	1	WG2468220
MSD	R4186734-5	20250314170743	03/14/25 17:07	1	WG2468220
CCV	CVAA100314251710	20250314171024	03/14/25 17:10		
CCB	CVAA100314251713	20250314171302	03/14/25 17:13		
CCV	CVAA100314252015	20250314201557	03/14/25 20:15		
CCB	CVAA100314252018	20250314201835	03/14/25 20:18		
L1834249-24	L1834249-24	20250314202111	03/14/25 20:21	1	WG2468220
L1834249-25	L1834249-25	20250314202353	03/14/25 20:23	1	WG2468220
L1834249-26	L1834249-26	20250314202635	03/14/25 20:26	1	WG2468220
L1834249-27	L1834249-27	20250314202916	03/14/25 20:29	1	WG2468220
L1834249-36	L1834249-36	20250314203157	03/14/25 20:31	1	WG2468220
L1834249-37	L1834249-37	20250314203439	03/14/25 20:34	1	WG2468220
DAVIS_SCHOOL_DUP_S_SO	L1834664-11	20250314203721	03/14/25 20:37	1	WG2468220
L1834933-01	L1834933-01	20250314204003	03/14/25 20:40	1	WG2468220
L1835123-01	L1835123-01	20250314204245	03/14/25 20:42	1	WG2468220
CCV	CVAA100314252048	20250314204849	03/14/25 20:48		
CCB	CVAA100314252051	20250314205127	03/14/25 20:51		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/14/25 10:59
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/14/25 11:12
Analytical Method:	7471B	**Analytical Run:**	031425CVAA10 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0002	.0001754706	87.70	0.0004	.0003869918	96.70
File ID:		20250314105921			20250314110159	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/14/25 10:59
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/14/25 11:12
Analytical Method:	7471B	**Analytical Run:**	031425CVAA10 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0010	.0009304088	93	0.0020	.002060884	103
File ID:		20250314110437			20250314110716	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/14/25 10:59
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/14/25 11:12
Analytical Method:	7471B	**Analytical Run:**	031425CVAA10 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0050	.005203208	104	0.01	.009894187	98.90
File ID:		20250314110955			20250314111232	

16A-IN

INITIAL CALIBRATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/14/25 10:59
Instrument ID:	CVAA10	**Calibration (end) date/time:**	03/14/25 11:12
Analytical Method:	7471B	**Analytical Run:**	031425CVAA10 S

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
MERCURY	253.7	0	5	0.999601	13.60604	0.000696
MERCURY	253.7	0	5	0.999601	13.60604	0.000696

Calibration Type

0 = Linear Regression

Weightage

5 = None

Sample ID: CALIBRATION BLANK Units: mg/kg
Analyzed: 03/14/25 10:56 Sequence: 1 Standard ID:

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.0002568571	0.0002325794	0.0002714936	0.0002664984

Sample ID: STD 0.2 Units: mg/kg
Analyzed: 03/14/25 10:59 Sequence: 2 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.003083450	0.003188173	0.002907875	0.003154302

Sample ID: STD 0.4 Units: mg/kg
Analyzed: 03/14/25 11:01 Sequence: 3 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.005961417	0.006183337	0.005728422	0.005972490

Sample ID: STD 1.0 Units: mg/kg
Analyzed: 03/14/25 11:04 Sequence: 4 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.01335517	0.01400827	0.01290372	0.01315353

Sample ID: STD 2.0 Units: mg/kg
Analyzed: 03/14/25 11:07 Sequence: 5 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.02873646	0.02955050	0.02776389	0.02889500

Sample ID: STD 5.0 Units: mg/kg
Analyzed: 03/14/25 11:09 Sequence: 6 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.07149104	0.07242984	0.06928847	0.07275481

Sample ID: STD 10.0 Units: mg/kg
Analyzed: 03/14/25 11:12 Sequence: 7 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.1353167	0.1385050	0.1333050	0.1341400

Sample ID: ICV Units: mg/kg
Analyzed: 03/14/25 11:20 Sequence: 8 Standard ID: 25C07039

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.07127622	0.005187421	0.005282881	0.005154658	0.005124724

Sample ID: ICB Units: mg/kg
Analyzed: 03/14/25 11:23 Sequence: 9

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001444664	-0.00004053555	-0.00002550021	-0.00004836812	-0.00004773833

Sample ID: ICVLL Units: mg/kg
Analyzed: 03/14/25 11:31 Sequence: 12 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.003055680	0.0001734293	0.0001782789	0.0001684278	0.0001735813

Sample ID: CCV Units: mg/kg
Analyzed: 03/14/25 12:18 Sequence: 24 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06715456	0.004884492	0.004770252	0.005031683	0.004851541

Sample ID: CCB Units: mg/kg
Analyzed: 03/14/25 12:20 Sequence: 25

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001645948	-0.00003905617	-0.00001889578	-0.00004692444	-0.00005134829

Sample ID: L1835587-06 DF: 1x Batch: WG2468520 Units: mg/kg
Analyzed: 03/14/25 12:23 Sequence: 26

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001066880	0.00002725886	0.00003229539	0.00002532269	0.00002415851

Sample ID: L1835652-01 DF: 1x Batch: WG2468520 Units: mg/kg
Analyzed: 03/14/25 12:25 Sequence: 27

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0006715405	-0.000001797291	-0.0000007573899	-0.000001097427	-0.000003537056

Sample ID: BLANK DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 12:38 Sequence: 32

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00007057852	-0.00004596607	-0.00003492120	-0.00004993607	-0.00005304094

Sample ID: LCS DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 12:41 Sequence: 33

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.04181401	0.003022043	0.003137900	0.002958079	0.002970149

Sample ID: L1835011-01 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 12:44 Sequence: 34

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001834673	0.00008368923	0.00009410573	0.00007798146	0.00007898049

Sample ID: SD DF: 5x Ref Sample ID: L1835011-01 Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 12:46 Sequence: 35

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00006908682	-0.00004607571	-0.0002217765	-0.0002351221	-0.0002342371

Sample ID: CCV Units: mg/kg
Analyzed: 03/14/25 12:49 Sequence: 36 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06946970	0.005054647	0.005247889	0.004992530	0.004923522

Sample ID: CCB Units: mg/kg
Analyzed: 03/14/25 12:51 Sequence: 37

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002434604	-0.00003325981	-0.000004522454	-0.00004835580	-0.00004690117

Sample ID: MS DF: 1x Ref Sample ID: L1835011-01 Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 12:54 Sequence: 38

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.04330816	0.003131858	0.003257965	0.003033588	0.003104020

Sample ID: MSD DF: 1x Ref Sample ID: L1835011-01 Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 12:57 Sequence: 39

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.04575218	0.003311485	0.003440896	0.003232221	0.003261338

Sample ID: L1833307-01 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 12:59 Sequence: 40

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00002444403	-0.00004935681	-0.00002714860	-0.00005909340	-0.00006182842

Sample ID: L1834664-01 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:02 Sequence: 41

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001835141	0.00008372360	0.00008932817	0.00008123041	0.00008061220

Sample ID: L1834664-02 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:05 Sequence: 42

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001987776	0.00009494183	0.00009883528	0.00009299510	0.00009299510

Sample ID: L1834664-03 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:07 Sequence: 43

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001091514	0.00002906945	0.00003491057	0.00002515350	0.00002714428

Sample ID: L1834664-04 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:10 Sequence: 44

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002058176	0.0001001160	0.0001055588	0.00009608834	0.00009870093

Sample ID: L1834664-05 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:13 Sequence: 45

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001398076	0.00005160076	0.00005312571	0.00005196491	0.00004971166

Sample ID: L1834664-06 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:15 Sequence: 46

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001788968	0.00008033005	0.00008473120	0.00007823359	0.00007802536

Sample ID: L1834664-07 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:18 Sequence: 47

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.003512723	0.0002070205	0.0002150460	0.0002017734	0.0002042421

Sample ID: CCV Units: mg/kg
Analyzed: 03/14/25 13:21 Sequence: 48 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.07342116	0.005345067	0.005492912	0.005290554	0.005251734

Sample ID: CCB Units: mg/kg
Analyzed: 03/14/25 13:23 Sequence: 49

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001582830	-0.00003952007	-0.000008408441	-0.00006109712	-0.00004905465

Sample ID: PS DF: 1x Ref Sample ID: L1835587-01 Batch: WG2468520 Units: mg/kg
Analyzed: 03/14/25 13:26 Sequence: 50

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06204349	0.004508845	0.004212415	0.004701951	0.004612168

Sample ID: L1834664-08 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:29 Sequence: 51

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002138513	0.0001060205	0.0001233340	0.00009628914	0.00009843829

Sample ID: L1834664-09 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:31 Sequence: 52

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001990204	0.00009512023	0.00009268757	0.00009714892	0.00009552420

Sample ID: L1834664-10 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:34 Sequence: 53

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001732803	0.00007620210	0.00007096796	0.00007681376	0.00008082457

Sample ID: L1835011-02 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:37 Sequence: 54

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002110232	0.0001039419	0.0001025597	0.0001016522	0.0001076139

Sample ID: L1835011-03 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:39 Sequence: 55

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0004768138	-0.00001610908	-0.00002368211	-0.00001495673	-0.000009688403

Sample ID: L1835078-01 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:42 Sequence: 56

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0005655445	-0.000009587654	-0.00001760104	-0.000006987687	-0.000004174240

Sample ID: L1835078-02 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:45 Sequence: 57

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0007237728	0.000002041617	0.000003704345	-0.0000003468137	0.000002767319

Sample ID: L1835078-03 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:47 Sequence: 58

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0006916764	-0.0000003173662	-0.0000009547552	0.000001006825	-0.000001004168

Sample ID: L1835078-04 DF: 1x Batch: WG2467835 Units: mg/kg
Analyzed: 03/14/25 13:50 Sequence: 59

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0009428918	0.00001814616	0.00001942290	0.00001674720	0.00001826839

Sample ID: CCV Units: mg/kg
Analyzed: 03/14/25 14:28 Sequence: 61 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06642180	0.004830636	0.004998775	0.004802711	0.004690422

Sample ID: CCB Units: mg/kg
Analyzed: 03/14/25 14:33 Sequence: 62

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00006348622	-0.00004648733	-0.00004738943	-0.00004649079	-0.00004558177

Sample ID: CCV Units: mg/kg
Analyzed: 03/14/25 16:38 Sequence: 109 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.07394796	0.005383785	0.004987441	0.005658713	0.005505200

Sample ID: CCB Units: mg/kg
Analyzed: 03/14/25 16:41 Sequence: 110

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002984018	-0.00002922179	0.0000001293213	-0.00004323250	-0.00004456219

Sample ID: L1834004-91 DF: 1x Batch: WG2467497 Units: mg/kg
Analyzed: 03/14/25 16:44 Sequence: 111

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002784037	0.0001534644	0.0001548572	0.0001496407	0.0001558954

Sample ID: L1834004-92 DF: 1x Batch: WG2467497 Units: mg/kg
Analyzed: 03/14/25 16:46 Sequence: 112

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002332303	0.0001202634	0.0001233175	0.0001157269	0.0001217460

Sample ID: SD DF: 5x Ref Sample ID: L1834004-81 Batch: WG2467497 Units: mg/kg
Analyzed: 03/14/25 16:49 Sequence: 113

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0008488697	0.00001123584	0.00006515723	0.00004785139	0.00005552901

Sample ID: L1834004-84 DF: 1x Batch: WG2467497 Units: mg/kg
Analyzed: 03/14/25 16:52 Sequence: 114

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002650541	0.0001436529	0.0001460543	0.0001410197	0.0001438848

Sample ID: BLANK DF: 1x Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 16:54 Sequence: 115

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00004174292	-0.00004808540	-0.00004734087	-0.00004854218	-0.00004837313

Sample ID: LCS DF: 1x Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 16:57 Sequence: 116

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.04693297	0.003398270	0.003400668	0.003359117	0.003435024

Sample ID: L1834249-22 DF: 1x Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 17:00 Sequence: 117

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001513818	0.00006010743	0.00007915377	0.00004938770	0.00005178080

Sample ID: SD DF: 5x Ref Sample ID: L1834249-22 Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 17:02 Sequence: 118

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.00003739378	-0.00005390169	-0.0002646947	-0.0002701101	-0.0002737205

Sample ID: MS DF: 1x Ref Sample ID: L1834249-22 Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 17:05 Sequence: 119

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.04789653	0.003469088	0.003516956	0.003416630	0.003473679

Sample ID: MSD DF: 1x Ref Sample ID: L1834249-22 Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 17:07 Sequence: 120

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.04833478	0.003501298	0.003538003	0.003443754	0.003522137

Sample ID: CCV Units: mg/kg
Analyzed: 03/14/25 17:10 Sequence: 121 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.07528191	0.005481826	0.005502101	0.005407439	0.005535939

Sample ID: CCB Units: mg/kg
Analyzed: 03/14/25 17:13 Sequence: 122

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0003710830	-0.00002387995	0.00001219974	-0.00003927700	-0.00004456260

Sample ID: CCV Units: mg/kg
Analyzed: 03/14/25 20:15 Sequence: 178 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.07477971	0.005444916	0.005447389	0.005542691	0.005344667

Sample ID: CCB Units: mg/kg
Analyzed: 03/14/25 20:18 Sequence: 179

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002793154	-0.00003062458	-0.000002825734	-0.00004335226	-0.00004569574

Sample ID: L1834249-24 DF: 1x Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 20:21 Sequence: 180

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002128850	0.0001053103	0.0001024251	0.0001078981	0.0001056077

Sample ID: L1834249-25 DF: 1x Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 20:23 Sequence: 181

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001622975	0.00006813014	0.00006744151	0.00006976768	0.00006718122

Sample ID: L1834249-26 DF: 1x Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 20:26 Sequence: 182

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002051100	0.00009959589	0.00009704001	0.0001034501	0.00009829757

Sample ID: L1834249-27 DF: 1x Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 20:29 Sequence: 183

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002067139	0.0001007747	0.00009889510	0.0001023428	0.0001010863

Sample ID: L1834249-36 DF: 1x Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 20:31 Sequence: 184

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001268442	0.00004207303	0.00004156616	0.00004356215	0.00004109077

Sample ID: L1834249-37 DF: 1x Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 20:34 Sequence: 185

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001445990	0.00005512223	0.00005716065	0.00005524901	0.00005295704

Sample ID: L1834664-11 DF: 1x Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 20:37 Sequence: 186

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001370185	0.00004955087	0.00004847580	0.00005226522	0.00004791158

Sample ID: L1834933-01 DF: 1x Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 20:40 Sequence: 187

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001434830	-0.00004060782	-0.00003959481	-0.00003982052	-0.00004240814

Sample ID: L1835123-01 DF: 1x Batch: WG2468220 Units: mg/kg
Analyzed: 03/14/25 20:42 Sequence: 188

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002145564	0.0001065387	0.0001055635	0.0001070256	0.0001070271

Sample ID: CCV Units: mg/kg
Analyzed: 03/14/25 20:48 Sequence: 189 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.07235466	0.005266682	0.004802682	0.005500828	0.005496537

Sample ID: CCB Units: mg/kg
Analyzed: 03/14/25 20:51 Sequence: 190

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002488740	-0.00003286192	-0.000005266936	-0.00004530350	-0.00004801533

7471A SS HG Metals Prep Benchsheet

Batch: WG2467497

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834004	WG2466960	BJM688	PREPREPBAL3	12-MAR-25

Analyst: NDL4057 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Hotblock ID:** hg2 **2min Cook Temp:** 95
15min KMNO4 HoldTime: 03/12/25 15:52:25 **Hotblock Time On:** 03/12/25 16:07:25 **Uncorrected Temp On:** 95 **Corrected Temp On:** 95
Hotblock Time Off: 03/12/25 16:37:25 **Uncorrected Temp Off:** 98 **Corrected Temp Off:** 98 **Thermometer Correction Factor:** 1.0 **Digestion Chips Lot #:** 25B02756
Prep Date: 03/12/25 14:26-14:29 **Prep End Date/Time:** 03/12/25 17:59 **Calibration and Instrument Stds:** 25C12779 **Method:** 7471A **SOP:** ENV-SOP-MTJL-0213
Thermometer ID#: 1042606 **Pipette Tip Lot#:** 24440172 **Cal and Stds Workgroup:** WG2465449 **Thermometer Location:** C5 **Pipette ID:** VU23217 **Sieve ID:** NA
Sieve Size: NA **Repeat Pipette ID:** N215100J **Repeat Pipette Tip Lot#:** 24B38914

LCS/MS Spike: 25C07039 Amt. Used: 150 uL Exp. Date:03/14/25 **Aqua Regia:** 25C12780 Amt. Used: 2.50 mL Exp. Date:03/12/25
KMNO4: 25C12810 Amt. Used: 7.50 mL Exp. Date:03/19/25 **H8N2O6S:** 25C12815 Amt. Used: 3 mL Exp. Date:03/19/25 **SnCl:** 25C12781 mL Exp. Date:03/12/25
HCl: 25C12782 mL Exp. Date:03/12/25

Sample ID	Matrix	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Review Analyst	Review Date
BLANK		0.30	50	resin pellets	LAS4044	03/12/25 18:00:07
LCS		0.30	50	resin pellets	LAS4044	03/12/25 18:00:07
MS(L1834004-81)		0.32	50	soil sample	LAS4044	03/12/25 18:00:07
MSD(L1834004-81)		0.31	50	soil sample	LAS4044	03/12/25 18:00:07
1. L1834004-74	SS	0.30	50	soil sample	LAS4044	03/12/25 18:00:07
2. L1834004-75	SS	0.31	50	soil sample	LAS4044	03/12/25 18:00:07
3. L1834004-76	SS	0.31	50	soil sample	LAS4044	03/12/25 18:00:07
4. L1834004-77	SS	0.31	50	soil sample	LAS4044	03/12/25 18:00:07
5. L1834004-78	SS	0.30	50	soil sample	LAS4044	03/12/25 18:00:07
6. L1834004-79	SS	0.33	50	soil sample	LAS4044	03/12/25 18:00:07
7. L1834004-80	SS	0.31	50	soil sample	LAS4044	03/12/25 18:00:07
8. L1834004-81	SS	0.31	50	soil sample	LAS4044	03/12/25 18:00:07
9. L1834004-82	SS	0.31	50	soil sample	LAS4044	03/12/25 18:00:07
10. L1834004-83	SS	0.30	50	soil sample	LAS4044	03/12/25 18:00:07
11. L1834004-84	SS	0.31	50	soil sample	LAS4044	03/12/25 18:00:07
12. L1834004-85	SS	0.33	50	soil sample	LAS4044	03/12/25 18:00:07
13. L1834004-86	SS	0.34	50	soil sample	LAS4044	03/12/25 18:00:07
14. L1834004-87	SS	0.30	50	soil sample	LAS4044	03/12/25 18:00:07
15. L1834004-88	SS	0.30	50	soil sample	LAS4044	03/12/25 18:00:07
16. L1834004-89	SS	0.31	50	soil sample	LAS4044	03/12/25 18:00:07
17. L1834004-90	SS	0.30	50	soil sample	LAS4044	03/12/25 18:00:07
18. L1834004-91	SS	0.31	50	soil sample	LAS4044	03/12/25 18:00:07
19. L1834004-92	SS	0.32	50	soil sample	LAS4044	03/12/25 18:00:07

Comments:

Reviewed By:LAS4044 on 03/12/25 18:00:07

7471A SS HG Metals Prep Benchsheet

Batch: WG2467835

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25
L1835011	WG2467458	CLC4087	PREPREPBAL4	03/13/25 09:16:36
L1835078	WG2467754	KMT967	PREPREPBAL4	12-MAR-25

Analyst: NDL4057 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Hotblock ID:** MPC **2min Cook Temp:** 95
15min KMNO4 HoldTime: 03/13/25 15:00:16 **Hotblock Time On:** 03/13/25 15:15:16 **Uncorrected Temp On:** 95 **Corrected Temp On:** 95
Hotblock Time Off: 03/13/25 15:45:16 **Uncorrected Temp Off:** 95 **Corrected Temp Off:** 95 **Thermometer Correction Factor:** 0.00 **Digestion Chips Lot #:** 25B02756
Prep Date: 03/13/25 13:10-13:14 **Prep End Date/Time:** 03/13/25 15:59 **Calibration and Instrument Stds:** 25C13020 **Method:** 7471A **SOP:** ENV-SOP-MTJL-0213
Thermometer ID#: 6426746 **Pipette Tip Lot#:** 24440172 **Cal and Stds Workgroup:** WG2467651 **Thermometer Location:** C6 **Pipette ID:** 24440172 **Sieve ID:** NA
Sieve Size: NA **Repeat Pipette ID:** 24B38914 **Repeat Pipette Tip Lot#:** N215100J

LCS/MS Spike: 25C07039 Amt. Used: 150 uL Exp. Date:03/14/25 **Aqua Regia:** 25C13021 Amt. Used: 2.50 mL Exp. Date:03/13/25
KMNO4: 25C12810 Amt. Used: 7.50 mL Exp. Date:03/19/25 **H8N2O6S:** 25C12815 Amt. Used: 3 mL Exp. Date:03/19/25 **SnCl:** 25C13023 mL Exp. Date:03/13/25
HCl: 25C13024 mL Exp. Date:03/13/25

Sample ID	Matrix	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Box ID	Review Analyst	Review Date
BLANK		0.30	50	RESIN PELLETS		NDL4057	03/13/25 15:59:09
LCS		0.30	50	RESIN PELLETS		NDL4057	03/13/25 15:59:09
MS(L1835011-01)		0.32	50	SOIL SAMPLE		NDL4057	03/13/25 15:59:09
MSD(L1835011-01)		0.31	50	SOIL SAMPLE		NDL4057	03/13/25 15:59:09
1. L1833307-01	SS	0.30	50	SOIL SAMPLE		NDL4057	03/13/25 15:59:09
2. L1834664-01	SS	0.30	50	SOIL SAMPLE	PP2 0312	NDL4057	03/13/25 15:59:09
3. L1834664-02	SS	0.29	50	SOIL SAMPLE	PP2 0312	NDL4057	03/13/25 15:59:09
4. L1834664-03	SS	0.34	50	SOIL SAMPLE	PP2 0312	NDL4057	03/13/25 15:59:09
5. L1834664-04	SS	0.33	50	SOIL SAMPLE	PP2 0312	NDL4057	03/13/25 15:59:09
6. L1834664-05	SS	0.34	50	SOIL SAMPLE	PP2 0312	NDL4057	03/13/25 15:59:09
7. L1834664-06	SS	0.30	50	SOIL SAMPLE	PP2 0312	NDL4057	03/13/25 15:59:09
8. L1834664-07	SS	0.30	50	SOIL SAMPLE	PP2 0312	NDL4057	03/13/25 15:59:09
9. L1834664-08	SS	0.29	50	SOIL SAMPLE	PP2 0312	NDL4057	03/13/25 15:59:09
10. L1834664-09	SS	0.29	50	SOIL SAMPLE	PP2 0312	NDL4057	03/13/25 15:59:09
11. L1834664-10	SS	0.31	50	SOIL SAMPLE	PP2 0312	NDL4057	03/13/25 15:59:09
12. L1835011-01	SS	0.32	50	SOIL SAMPLE		NDL4057	03/13/25 15:59:09
13. L1835011-02	SS	0.29	50	SOIL SAMPLE		NDL4057	03/13/25 15:59:09
14. L1835011-03	SS	0.30	50	SOIL SAMPLE		NDL4057	03/13/25 15:59:09
15. L1835078-01	SS	0.35	50	SOIL SAMPLE		NDL4057	03/13/25 15:59:09
16. L1835078-02	SS	0.30	50	SOIL SAMPLE		NDL4057	03/13/25 15:59:09
17. L1835078-03	SS	0.29	50	SOIL SAMPLE		NDL4057	03/13/25 15:59:09
18. L1835078-04	SS	0.33	50	SOIL SAMPLE		NDL4057	03/13/25 15:59:09
19. L1835078-05	SS	0.32	50	SOIL SAMPLE		NDL4057	03/13/25 15:59:09
20. L1835078-06	SS	0.34	50	SOIL SAMPLE		NDL4057	03/13/25 15:59:09

Comments:

Reviewed By:NDL4057 on 03/13/25 15:59:09

7471A SS HG Metals Prep Benchsheet

Batch: WG2468220

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1829230	WG2466939	BJM688	PREPREPBAL4	12-MAR-25
L1834249	WG2466994	BJM688	PREPREPBAL4	12-MAR-25
L1834249	WG2466996	BJM688	PREPREPBAL4	12-MAR-25
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25
L1834933	WG2467797	CMW844	PREPREPBAL4	12-MAR-25
L1835123	WG2467776	KMT967	PREPREPBAL2	12-MAR-25

Analyst: NDL4057 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Hotblock ID:** MPC **2min Cook Temp:** 95
15min KMNO4 HoldTime: 03/13/25 15:00:41 **Hotblock Time On:** 03/13/25 15:15:41 **Uncorrected Temp On:** 95 **Corrected Temp On:** 95
Hotblock Time Off: 03/13/25 15:45:41 **Uncorrected Temp Off:** 95 **Corrected Temp Off:** 95 **Thermometer Correction Factor:** 0.00 **Digestion Chips Lot #:** 25B02756
Prep Date: 03/13/25 13:15-13:19 **Prep End Date/Time:** 03/13/25 15:57 **Calibration and Instrument Stds:** 25C13020 **Method:** 7471A **SOP:** ENV-SOP-MTJL-0213
Thermometer ID#: 6426746 **Pipette Tip Lot#:** 24440172 **Cal and Stds Workgroup:** WG2467651 **Thermometer Location:** C6 **Pipette ID:** VU23217 **Sieve ID:** NA
Sieve Size: NA **Repeat Pipette ID:** 24B38914 **Repeat Pipette Tip Lot#:** N215100J

LCS/MS Spike: 25C07039 Amt. Used: 150 uL Exp. Date:03/14/25 **Aqua Regia:** 25C13021 Amt. Used: 2.50 mL Exp. Date:03/13/25
KMNO4: 25C12810 Amt. Used: 7.50 mL Exp. Date:03/19/25 **H8N2O6S:** 25C12815 Amt. Used: 3 mL Exp. Date:03/19/25 **SnCl:** 25C13023 mL Exp. Date:03/13/25
HCl: 25C13024 mL Exp. Date:03/13/25

Sample ID	Matrix	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Box ID	Review Analyst	Review Date
BLANK		0.30	50	RESIN PELLETS		NDL4057	03/13/25 15:57:53
LCS		0.30	50	RESIN PELLETS		NDL4057	03/13/25 15:57:53
MS(L1834249-22)		0.32	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
MSD(L1834249-22)		0.32	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
1. L1829230-01	SS	0.33	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
2. L1829230-02	SS	0.33	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
3. L1829230-03	SS	0.31	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
4. L1829230-04	SS	0.33	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
5. L1829230-05	SS	0.31	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
6. L1829230-21	SS	0.35	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
7. L1829230-22	SS	0.30	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
8. L1829230-23	SS	0.35	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
9. L1834249-21	SS	0.33	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
10. L1834249-22	SS	0.34	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
11. L1834249-23	SS	0.31	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
12. L1834249-24	SS	0.30	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
13. L1834249-25	SS	0.34	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
14. L1834249-26	SS	0.33	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
15. L1834249-27	SS	0.32	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
16. L1834249-36	SS	0.32	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
17. L1834249-37	SS	0.34	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
18. L1834664-11	SS	0.28	50	SOIL SAMPLE	PP2 0312	NDL4057	03/13/25 15:57:53
19. L1834933-01	SS	0.35	50	SOIL SAMPLE		NDL4057	03/13/25 15:57:53
20. L1835123-01	SS	0.29	50	SOIL SAMPLE	Wed-6/PP2 0312	NDL4057	03/13/25 15:57:53

Comments:

Reviewed By:NDL4057 on 03/13/25 15:57:53

7471A SS HG Metals Prep Benchsheet

Batch: WG2468520

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835587	WG2468272	CLC4087	PREPREPBAL2	13-MAR-25
L1835652	WG2468425	CLC4087	PREPREPBAL1	13-MAR-25

Analyst: NDL4057 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Hotblock ID:** MPN **2min Cook Temp:** 93
15min KMNO4 HoldTime: 03/13/25 15:00:16 **Hotblock Time On:** 03/13/25 15:15:16 **Uncorrected Temp On:** 93 **Corrected Temp On:** 93
Hotblock Time Off: 03/13/25 15:45:16 **Uncorrected Temp Off:** 96 **Corrected Temp Off:** 97 **Thermometer Correction Factor:** +1.0 **Digestion Chips Lot #:** 25B02756
Prep Date: 03/13/25 14:24-14:27 **Prep End Date/Time:** 03/13/25 16:02 **Calibration and Instrument Stds:** 25C13020 **Method:** 7471A **SOP:** ENV-SOP-MTJL-0213
Thermometer ID#: 918848 **Pipette Tip Lot#:** 24440172 **Cal and Stds Workgroup:** WG2467651 **Thermometer Location:** C6 **Pipette ID:** 24440172 **Sieve ID:** NA
Sieve Size: NA **Repeat Pipette ID:** 24B38914 **Repeat Pipette Tip Lot#:** N215100J

LCS/MS Spike: 25C07039 Amt. Used: 150 uL Exp. Date:03/14/25 **Aqua Regia:** 25C13021 Amt. Used: 2.50 mL Exp. Date:03/13/25
KMNO4: 25C12810 Amt. Used: 7.50 mL Exp. Date:03/19/25 **H8N2O6S:** 25C12815 Amt. Used: 3 mL Exp. Date:03/19/25 **SnCl:** 25C13023 mL Exp. Date:03/13/25
HCl: 25C13024 mL Exp. Date:03/13/25

Sample ID	Matrix	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Box ID	Review Analyst	Review Date
BLANK		0.30	50	RESIN PELLETS		NDL4057	03/13/25 16:02:09
LCS		0.30	50	RESIN PELLETS		NDL4057	03/13/25 16:02:09
MS(L1835587-01)		0.29	50	SOIL SAMPLE	RUSH - PP2 3/13	NDL4057	03/13/25 16:02:09
MSD(L1835587-01)		0.29	50	SOIL SAMPLE	RUSH - PP2 3/13	NDL4057	03/13/25 16:02:09
1. L1835587-01	SS	0.30	50	SOIL SAMPLE	RUSH - PP2 3/13	NDL4057	03/13/25 16:02:09
2. L1835587-02	SS	0.26	50	SOIL SAMPLE	RUSH - PP2 3/13	NDL4057	03/13/25 16:02:09
3. L1835587-03	SS	0.27	50	SOIL SAMPLE	RUSH - PP2 3/13	NDL4057	03/13/25 16:02:09
4. L1835587-04	SS	0.31	50	SOIL SAMPLE	RUSH - PP2 3/13	NDL4057	03/13/25 16:02:09
5. L1835587-05	SS	0.34	50	SOIL SAMPLE	RUSH - PP2 3/13	NDL4057	03/13/25 16:02:09
6. L1835587-06	SS	0.33	50	SOIL SAMPLE	RUSH - PP2 3/13	NDL4057	03/13/25 16:02:09
7. L1835652-01	SS	0.34	50	SOIL SAMPLE		NDL4057	03/13/25 16:02:09

Comments:

Reviewed By:NDL4057 on 03/13/25 16:02:09

9056A Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1834664-01	**SDG:**	L1834664
Client Sample ID:	MONTROSE_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	37.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 22:24
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	4.98 g
Total Solids (%):	77.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		10.6	64.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1834664-02	**SDG:**	L1834664
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	38.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 22:41
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	5.02 g
Total Solids (%):	75.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		10.9	66.2

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
650_851_S_SO

Lab Sample ID:	L1834664-03	**SDG:**	L1834664
Client Sample ID:	650_851_S_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	39.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 22:58
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.09 g
Total Solids (%):	72.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		11.4	69.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1834664-04	**SDG:**	L1834664
Client Sample ID:	601_T_S_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	40.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 23:15
Dilution Factor:	1.01	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.97 g
Total Solids (%):	69.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		11.9	72.3

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
250_651_S_SO

Lab Sample ID:	L1834664-05	**SDG:**	L1834664
Client Sample ID:	250_651_S_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	41.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 23:32
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.11 g
Total Solids (%):	61.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	76.2	J	13.3	80.9

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1834664-06	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	42.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 23:48
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.09 g
Total Solids (%):	67.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		12.2	73.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1834664-07	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	43.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/16/25 00:05
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	5.03 g
Total Solids (%):	69.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		11.9	72.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_FRONT_PLAY GROUND_S_SO

Lab Sample ID:	L1834664-08	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	44.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/16/25 00:22
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	68.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		12.0	72.7

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_S_SO

Lab Sample ID:	L1834664-09	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	45.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/16/25 00:39
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	5.06 g
Total Solids (%):	67.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		12.3	74.5

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_S_SO

Lab Sample ID:	L1834664-10	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_TRACK_S_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	19.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 14:00
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.14 g
Total Solids (%):	67.3	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	66.0	J	12.2	74.3

Sample Narrative:
Dilution due to matrix impact on instrumentation at lower dilution

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_S_SO

Lab Sample ID:	L1834664-11	**SDG:**	L1834664
Client Sample ID:	DAVIS_SCHOOL_DUP_S_SO	**Collected Date/Time:**	03/10/25 17:05
Lab File ID:	20.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 14:16
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.01 g
Total Solids (%):	72.3	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	36.1	J	11.4	69.2

Sample Narrative:
Dilution due to matrix impact on instrumentation at lower dilution

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187262-1	**SDG:**	L1834664
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	16.0000.txt	**Received Date/Time:**	
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:12
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 16:27
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187569-1	**SDG:**	L1834664
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	16.0000.txt	**Received Date/Time:**	_____
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 13:13
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187262-2	**SDG:**	L1834664
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	17.0000.txt	**Received Date/Time:**	_____
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:12
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 16:44
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	221		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187569-2	**SDG:**	L1834664
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	17.0000.txt	**Received Date/Time:**	_____
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 13:28
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	191		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187262-3	**SDG:**	L1834664
Client Sample ID:	DUP	**Collected Date/Time:**	02/21/25 08:47
Lab File ID:	24.0000.txt	**Received Date/Time:**	02/24/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 18:42
Dilution Factor:	1.02	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.92 g
Total Solids (%):	83.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	10.8	J P1	10.1	61.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187262-6	**SDG:**	L1834664
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 17:00
Lab File ID:	36.0000.txt	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 22:07
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.15 g
Total Solids (%):	75.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		10.9	66.3

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187569-4	**SDG:**	L1834664
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 13:17
Lab File ID:	28.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 16:23
Dilution Factor:	10	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	5.12 g
Total Solids (%):	85.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	6350		96.2	584

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187569-5	**SDG:**	L1834664
Client Sample ID:	DUP	**Collected Date/Time:**	02/27/25 09:00
Lab File ID:	36.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 18:29
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.99 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	14.9	J P1	8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187262-4	**SDG:**	L1834664
Client Sample ID:	MS	**Collected Date/Time:**	02/21/25 08:47
Lab File ID:	25.0000.txt	**Received Date/Time:**	02/24/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 18:59
Dilution Factor:	1.02	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.90 g
Total Solids (%):	83.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	269		10.1	61.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187569-6	**SDG:**	L1834664
Client Sample ID:	MS	**Collected Date/Time:**	02/27/25 09:00
Lab File ID:	37.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 18:45
Dilution Factor:	1.02	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.9 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	213		8.40	51.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187262-5	**SDG:**	L1834664
Client Sample ID:	MSD	**Collected Date/Time:**	02/21/25 08:47
Lab File ID:	26.0000.txt	**Received Date/Time:**	02/24/25 09:00
Instrument ID:	IC-11	**Preparation Date/Time:**	03/15/25 10:15
Analytical Batch:	WG2468135	**Analysis Date/Time:**	03/15/25 19:15
Dilution Factor:	1.03	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.88 g
Total Solids (%):	83.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	267		10.2	62.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187569-7	**SDG:**	L1834664
Client Sample ID:	MSD	**Collected Date/Time:**	02/27/25 09:00
Lab File ID:	38.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 19:01
Dilution Factor:	1.02	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.92 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	210		8.40	51.0

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031025
Concentration Units:	mg/l		

SSCV

Sample ID: IC-100310252108

Analyte	True	Found	%R	%RSD
BROMIDE	40	39.532	98.80	
CHLORATE	2.50	2.2999	92	
CHLORIDE	40	40.044	100	
FLUORIDE	8	8.1676	102	
NITRATE	8	8.2014	103	
NITRITE	8	8.2604	103	
SULFATE	40	40.7608	102	

SSCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725
Concentration Units:	mg/l		

		ICV				CCV				CCV			
Sample ID:		IC-100317250906				IC-100317251654				IC-100317252052			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
SULFATE	50	47.8774	95.80		50	47.9439	95.90		50	48.0094	96	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	030925
Concentration Units:	mg/l		

SSCV

Sample ID: IC-110309250627-2

Analyte	True	Found	%R	%RSD
BROMIDE	40	39.575	98.90	
CHLORATE	2.50	2.3836	95.30	
CHLORIDE	40	39.9293	99.80	
FLUORIDE	8	7.5803	94.80	
NITRATE	8	8.0103	100	
NITRITE	8	8.0878	101	
PHOSPHATE,ORTHO	8	0.0000	0	
SULFATE	40	40.9125	102	

SSCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525
Concentration Units:	mg/l		

		SSCV				**ICV**				**CCV**			
Sample ID:		IC-110309250627				IC-110315251046				IC-110315251701			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
SULFATE	40	40.9125	102		50	49.9212	99.80		50	49.9267	99.90	

SSCV Limits: 90 - 110 ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525
Concentration Units:	mg/l		

		CCV				**CCV**		
Sample ID:		IC-110315252113				IC-110316250056		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
SULFATE	50	49.6688	99.30		50	49.3445	98.70	

SSCV Limits: 90 - 110 ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1834664	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031025

	Sample ID:	**ICB Result**	**ICB Qual**
	File ID:	11.0000.txt	
Analyte		mg/l	
BROMIDE		0.0000	U
CHLORATE		0.0000	U
CHLORIDE		0.1851	U
FLUORIDE		0.03480	U
NITRATE		0.0000	U
NITRITE		0.0000	U
SULFATE		0.2219	U

SDG:	L1834664	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

	Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
	File ID:	16.0000.txt		31.0000.txt		46.0000.txt	
Analyte		mg/kg		mg/l		mg/l	
SULFATE		U		0.0000	U	0.0000	U

SDG:	L1834664	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525

Sample ID:	**ICB Result**	**ICB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	11.0000.txt		16.0000.txt		19.0000.txt		34.0000.txt	
Analyte	mg/l		mg/kg		mg/l		mg/l	
SULFATE	0.0000	U	U		0.0000	U	0.0000	U

SDG:	L1834664	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525

	Sample ID:	**CCB Result**	**CCB Qual**
	File ID:	47.0000.txt	
Analyte		mg/l	
SULFATE		0.0000	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834664-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4187262-4
R4187262-5

MS Sample / File ID:	R4187262-4 / 25.0000.txt	**SDG:**	L1834664
MSD Sample / File ID:	R4187262-5 / 26.0000.txt	**Analytical Batch:**	WG2468135
OS Sample / File ID:	L1829230-04 / 23.0000.txt	**Matrix:**	Solid
Instrument ID:	IC-11		
Analytical Method:	9056A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Sulfate	241	U	269	267	112	111	1.02	80.0 - 120	0.841	15

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1834664-10,11

SAMPLE NO.:
R4187569-6
R4187569-7

MS Sample / File ID:	R4187569-6 / 37.0000.txt	**SDG:**	L1834664
MSD Sample / File ID:	R4187569-7 / 38.0000.txt	**Analytical Batch:**	WG2469046
OS Sample / File ID:	L1835412-01 / 35.0000.txt	**Matrix:**	Solid
Instrument ID:	IC-10		
Analytical Method:	9056A		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Sulfate	200	18.0	213	210	97.4	96.1	1.02	80.0 - 120	1.19	15

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187262-3 / 24.0000.txt	**SDG:**	L1834664
OS Sample / File ID:	L1829230-04 / 23.0000.txt	**Analytical Batch:**	WG2468135
Instrument ID:	IC-11	**Dilution Factor:**	1.02
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Sulfate	U	10.8	200*	15

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187262-6 / 36.0000.txt	**SDG:**	L1834664
OS Sample / File ID:	L1834645-11 / 35.0000.txt	**Analytical Batch:**	WG2468135
Instrument ID:	IC-11	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Sulfate	U	U	0.000	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187569-4 / 28.0000.txt	**SDG:**	L1834664
OS Sample / File ID:	L1835396-02 / 27.0000.txt	**Analytical Batch:**	WG2469046
Instrument ID:	IC-10	**Dilution Factor:**	10
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Sulfate	5690	6350	11.0	15

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187569-5 / 36.0000.txt	**SDG:**	L1834664
OS Sample / File ID:	L1835412-01 / 35.0000.txt	**Analytical Batch:**	WG2469046
Instrument ID:	IC-10	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/kg	*mg/kg*	*%*	*%*
Sulfate	18.0	14.9	18.5*	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1834664-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4187262-2

LCS Sample / File ID:	R4187262-2 / 17.0000.txt	**SDG:**	L1834664
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2468135
Instrument ID:	IC-11	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Sulfate	200	221		110		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1834664-10,11

SAMPLE NO.:
R4187569-2

LCS Sample / File ID:	R4187569-2 / 17.0000.txt	**SDG:**	L1834664
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2469046
Instrument ID:	IC-10	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Sulfate	200	191		95.5		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1834664-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 9056A

Matrix: Solid **Prep Method:** 9056

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Sulfate	14808-79-8			8.24	50

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	9056A
Instrument ID:	IC-10	**Calibration Start Date:**	_____
Analytical Run:	031025	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	STD 1	3.0000.TXT	03/10/25 19:17		
CAL	STD 2	4.0000.TXT	03/10/25 19:33		
CAL	STD 3	5.0000.TXT	03/10/25 19:49		
CAL	STD 4	6.0000.TXT	03/10/25 20:05		
CAL	STD 5	7.0000.TXT	03/10/25 20:20		
CAL	STD 6	8.0000.TXT	03/10/25 20:36		
CAL	STD 7	9.0000.TXT	03/10/25 20:52		
SSCV	IC-100310252108	10.0000.txt	03/10/25 21:08		
ICB	IC-100310252124	11.0000.txt	03/10/25 21:24		

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	9056A
Instrument ID:	IC-10	**Calibration Start Date:**	03/10/25 19:17
Analytical Run:	031725	**Calibration End Date:**	03/10/25 20:52

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	IC-100317250906	14.0000.txt	03/17/25 09:06		
RL	IC-100317250922	15.0000.txt	03/17/25 09:22		
BLANK	R4187569-1	16.0000.txt	03/17/25 13:13	1	WG2469046
LCS	R4187569-2	17.0000.txt	03/17/25 13:28	1	WG2469046
L1834441-01	L1834441-01	18.0000.txt	03/17/25 13:44	5	WG2469046
DAVIS_SCHOOL_TRACK_S_SO	L1834664-10	19.0000.txt	03/17/25 14:00	1	WG2469046
DAVIS_SCHOOL_DUP_S_SO	L1834664-11	20.0000.txt	03/17/25 14:16	1	WG2469046
L1834933-01	L1834933-01	21.0000.txt	03/17/25 14:32	1.02	WG2469046
L1835123-01	L1835123-01	22.0000.txt	03/17/25 14:47	1	WG2469046
L1835396-01	L1835396-01	23.0000.txt	03/17/25 15:03	1	WG2469046
L1835396-01	L1835396-01	24.0000.txt	03/17/25 15:19	10	WG2469046
OS	L1835396-02	25.0000.txt	03/17/25 15:35		
L1835396-02	L1835396-02	25.0000.txt	03/17/25 15:35	1	WG2469046
DUP	R4187569-3	26.0000.txt	03/17/25 15:51	1	WG2469046
OS	L1835396-02	27.0000.txt	03/17/25 16:07		
L1835396-02	L1835396-02	27.0000.txt	03/17/25 16:07	10	WG2469046
DUP	R4187569-4	28.0000.txt	03/17/25 16:23	10	WG2469046
L1835396-03	L1835396-03	29.0000.txt	03/17/25 16:38	1	WG2469046
CCV	IC-100317251654	30.0000.txt	03/17/25 16:54		
CCB	IC-100317251710	31.0000.txt	03/17/25 17:10		
L1835396-03	L1835396-03	32.0000.txt	03/17/25 17:26	10	WG2469046
L1835396-04	L1835396-04	33.0000.txt	03/17/25 17:42	1	WG2469046
L1835396-04	L1835396-04	34.0000.txt	03/17/25 17:58	10	WG2469046
OS	L1835412-01	35.0000.txt	03/17/25 18:14		
L1835412-01	L1835412-01	35.0000.txt	03/17/25 18:14	1.04	WG2469046
DUP	R4187569-5	36.0000.txt	03/17/25 18:29	1	WG2469046
MS	R4187569-6	37.0000.txt	03/17/25 18:45	1.02	WG2469046
MSD	R4187569-7	38.0000.txt	03/17/25 19:01	1.02	WG2469046
L1835452-01	L1835452-01	39.0000.txt	03/17/25 19:17	1	WG2469046
L1835452-01	L1835452-01	40.0000.txt	03/17/25 19:33	10	WG2469046
L1835452-02	L1835452-02	41.0000.txt	03/17/25 19:49	1	WG2469046
L1835452-02	L1835452-02	42.0000.txt	03/17/25 20:05	10	WG2469046
L1835452-03	L1835452-03	43.0000.txt	03/17/25 20:20	1	WG2469046
L1835452-03	L1835452-03	44.0000.txt	03/17/25 20:36	10	WG2469046
CCV	IC-100317252052	45.0000.txt	03/17/25 20:52		
CCB	IC-100317252108	46.0000.txt	03/17/25 21:08		

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	9056A
Instrument ID:	IC-11	**Calibration Start Date:**	_____
Analytical Run:	030925	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	CAL 1	3.0000.TXT	03/09/25 04:29		
CAL	CAL 2	4.0000.TXT	03/09/25 04:46		
CAL	CAL 3	5.0000.TXT	03/09/25 05:03		
CAL	CAL 4	6.0000.TXT	03/09/25 05:19		
CAL	CAL 5	7.0000.TXT	03/09/25 05:36		
CAL	CAL 6	8.0000.TXT	03/09/25 05:53		
CAL	CAL 7	9.0000.TXT	03/09/25 06:10		
SSCV	IC-110309250627-2	10.0000.txt-2	03/09/25 06:27		

ANALYSIS LOG

SDG:	L1834664	**Analytical Method:**	9056A
Instrument ID:	IC-11	**Calibration Start Date:**	03/09/25 04:29
Analytical Run:	031525	**Calibration End Date:**	03/09/25 06:10

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
SSCV	IC-110309250627	10.0000.txt	03/09/25 06:27		
ICB	IC-110309250644	11.0000.txt	03/09/25 06:44		
ICV	IC-110315251046	14.0000.txt	03/15/25 10:46		
RL	IC-110315251103	15.0000.txt	03/15/25 11:03		
BLANK	R4187262-1	16.0000.txt	03/15/25 16:27	1	WG2468135
LCS	R4187262-2	17.0000.txt	03/15/25 16:44	1	WG2468135
CCV	IC-110315251701	18.0000.txt	03/15/25 17:01		
CCB	IC-110315251717	19.0000.txt	03/15/25 17:17		
L1829230-01	L1829230-01	20.0000.txt	03/15/25 17:34	1.01	WG2468135
L1829230-02	L1829230-02	21.0000.txt	03/15/25 17:51	1.01	WG2468135
L1829230-03	L1829230-03	22.0000.txt	03/15/25 18:08	1.03	WG2468135
OS	L1829230-04	23.0000.txt	03/15/25 18:25		
L1829230-04	L1829230-04	23.0000.txt	03/15/25 18:25	1.02	WG2468135
DUP	R4187262-3	24.0000.txt	03/15/25 18:42	1.02	WG2468135
MS	R4187262-4	25.0000.txt	03/15/25 18:59	1.02	WG2468135
MSD	R4187262-5	26.0000.txt	03/15/25 19:15	1.03	WG2468135
L1829230-05	L1829230-05	27.0000.txt	03/15/25 19:32	1	WG2468135
L1829230-21	L1829230-21	28.0000.txt	03/15/25 19:49	1	WG2468135
L1829230-22	L1829230-22	29.0000.txt	03/15/25 20:06	1	WG2468135
L1829230-23	L1829230-23	30.0000.txt	03/15/25 20:23	1	WG2468135
L1829230-24	L1829230-24	31.0000.txt	03/15/25 20:40	1	WG2468135
L1829230-25	L1829230-25	32.0000.txt	03/15/25 20:57	1.04	WG2468135
CCV	IC-110315252113	33.0000.txt	03/15/25 21:13		
CCB	IC-110315252134	34.0000.txt	03/15/25 21:34		
OS	L1834645-11	35.0000.txt	03/15/25 21:50		
L1834645-11	L1834645-11	35.0000.txt	03/15/25 21:50	1	WG2468135
DUP	R4187262-6	36.0000.txt	03/15/25 22:07	1	WG2468135
MONTROSE_SCHOOL_DITCH_S_SO	L1834664-01	37.0000.txt	03/15/25 22:24	1	WG2468135
MONTROSE_SCHOOL_DRAINS_S_SO	L1834664-02	38.0000.txt	03/15/25 22:41	1	WG2468135
650_851_S_SO	L1834664-03	39.0000.txt	03/15/25 22:58	1	WG2468135
601_T_S_SO	L1834664-04	40.0000.txt	03/15/25 23:15	1.01	WG2468135
250_651_S_SO	L1834664-05	41.0000.txt	03/15/25 23:32	1	WG2468135
DAVIS_SCHOOL_DITCH_S_SO	L1834664-06	42.0000.txt	03/15/25 23:48	1	WG2468135
DAVIS_SCHOOL_DRAINS_S_SO	L1834664-07	43.0000.txt	03/16/25 00:05	1	WG2468135
DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	L1834664-08	44.0000.txt	03/16/25 00:22	1	WG2468135
DAVIS_SCHOOL_WPLAYGROUND_S_SO	L1834664-09	45.0000.txt	03/16/25 00:39	1	WG2468135
CCV	IC-110316250056	46.0000.txt	03/16/25 00:56		
CCB	IC-110316250113	47.0000.txt	03/16/25 01:13		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	0	.2137		1	.9992	99.90
File ID:		3.0000.TXT			4.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	5	4.427	88.50	10	9.0186	90.20
File ID:		5.0000.TXT			6.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	25	24.4085	97.60	50	50.2038	100
File ID:		7.0000.TXT			8.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%
SULFATE	100	101.9429	102
File ID:		9.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	1	.8171	81.70	5	5.3854	108
File ID:		4.0000.TXT			5.0000.TXT	

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	10	10.8328	108	25	26.1397	105
File ID:		6.0000.TXT			7.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1834664	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	50	49.8689	99.70	100	97.9562	98
File ID:		8.0000.TXT			9.0000.TXT	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
SULFATE	5	1	0.99926			0.089	-0.018	16.831

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1834664	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Analytical Method:	9056A	**Analytical Run:**	031525

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
SULFATE	5	1	0.99931			0.107	0.091	9.515

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

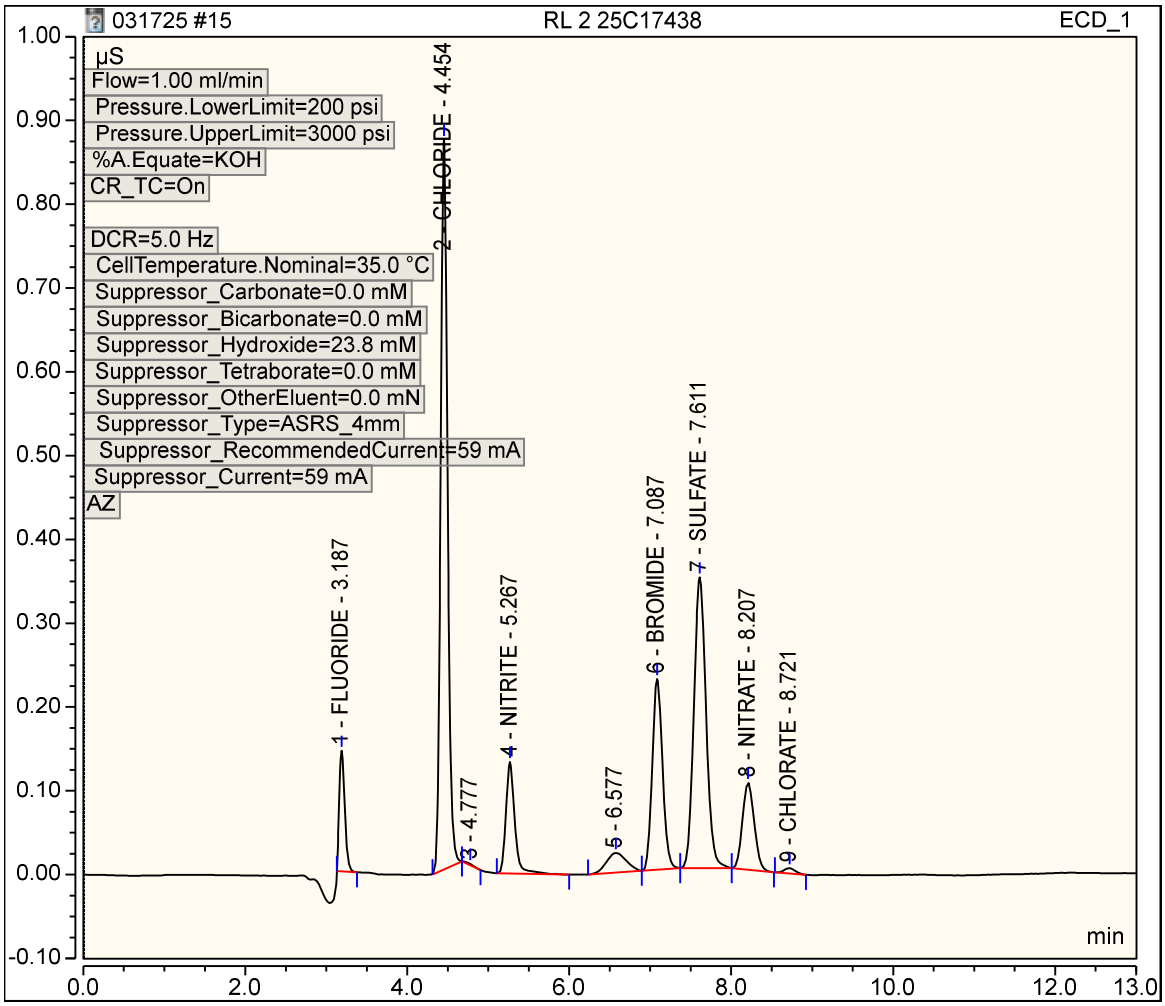
REPORTING LEVEL VERIFICATION
INORGANICS

SDG:	L1834664	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Lab File ID:	15.0000.txt	**Analysis date/time:**	03/17/25 09:22
Analytical Method:	9056A	**Sample ID:**	RL

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
SULFATE	1	0.8839	88.40	50 - 150

Sample Name:	**RL 2 25C17438**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 09:22**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.011	0.144	0.0915
2	4.45	CHLORIDE	BMB	0.086	0.870	0.8568
4	5.27	NITRITE	BMB	0.017	0.133	0.1134
6	7.09	BROMIDE	BMB	0.033	0.228	1.1706
7	7.61	SULFATE	BMB	0.060	0.347	0.8839
8	8.21	NITRATE	BMB	0.018	0.104	0.1255
9	8.72	CHLORATE	BMB	0.001	0.006	0.0620
		TOTAL:		0.23	1.83	3.30



17-IN

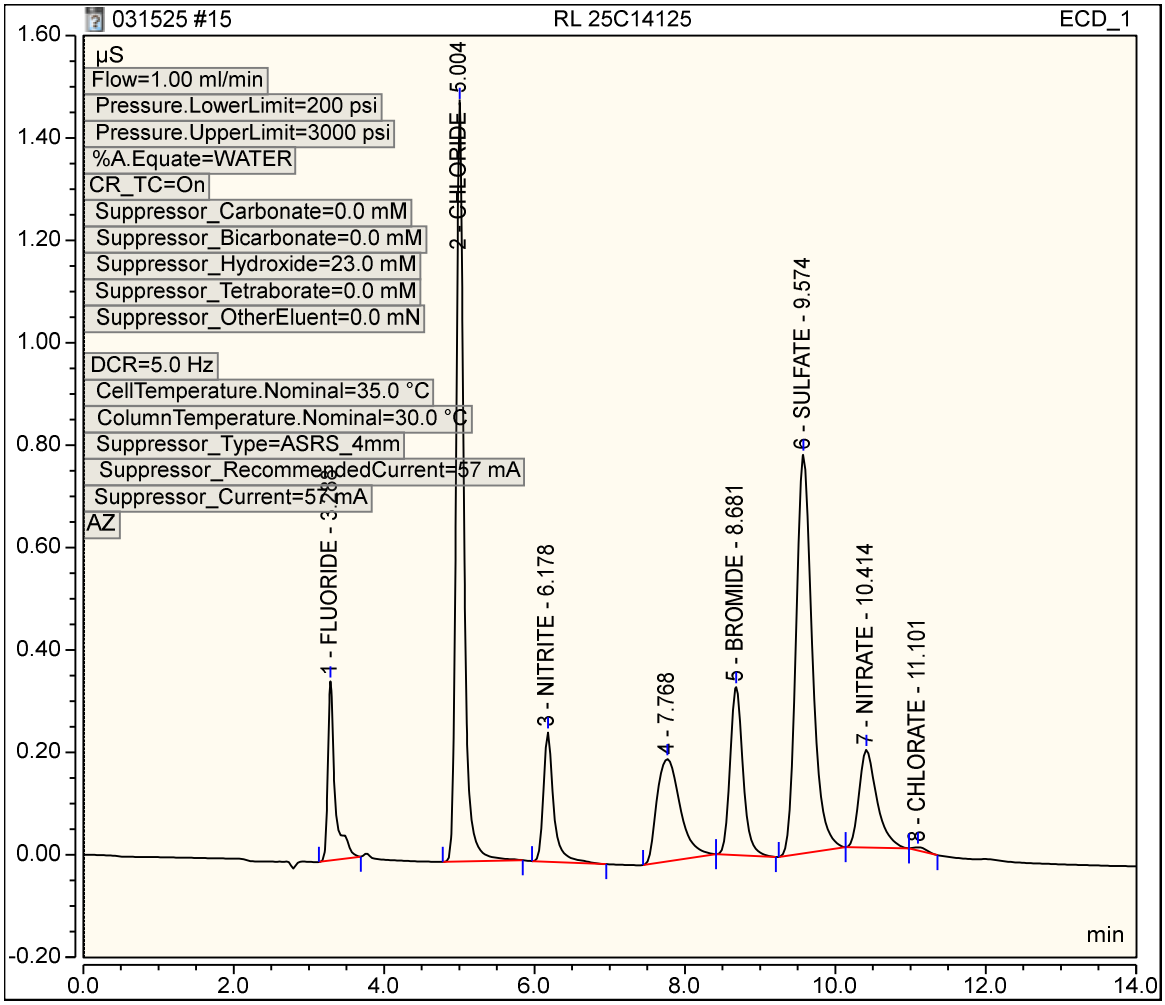
REPORTING LEVEL VERIFICATION
INORGANICS

SDG:	L1834664	**Calibration (begin) date/time:**	03/09/25 04:29
Instrument ID:	IC-11	**Calibration (end) date/time:**	03/09/25 06:10
Lab File ID:	15.0000.txt	**Analysis date/time:**	03/15/25 11:03
Analytical Method:	9056A	**Sample ID:**	RL

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
SULFATE	1	0.9848	98.50	50 - 150

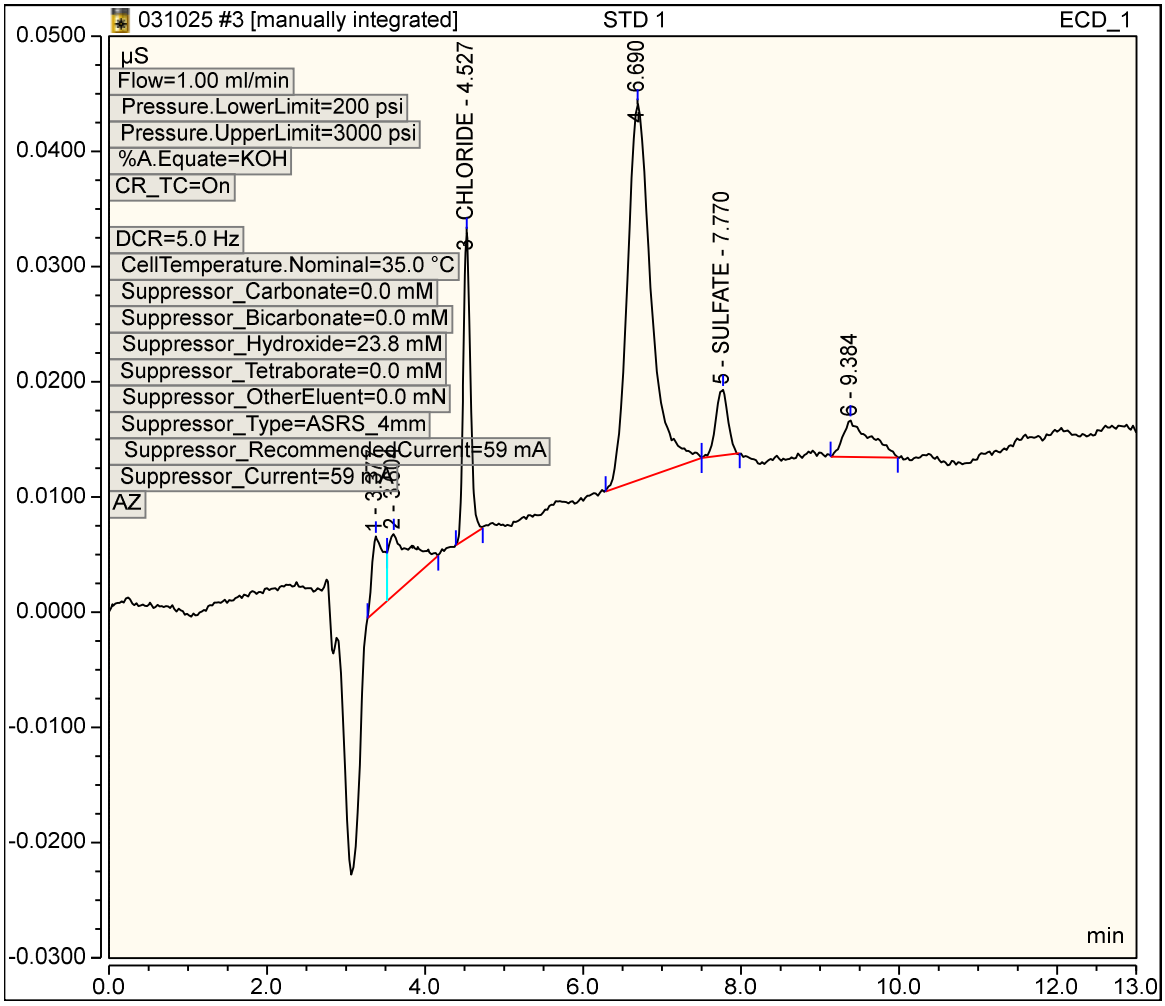
Sample Name:	**RL 25C14125**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 11:03**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMB	0.039	0.350	0.0984
2	5.00	CHLORIDE	BMB	0.179	1.482	1.1402
3	6.18	NITRITE	BMB	0.040	0.253	0.0815
5	8.68	BROMIDE	bMB	0.065	0.328	0.9331
6	9.57	SULFATE	BMb	0.197	0.779	0.9848
7	10.41	NITRATE	bMB	0.052	0.191	0.1241
8	11.10	CHLORATE	BMB	0.001	0.006	0.0499
		TOTAL:		0.57	3.39	3.41



Sample Name:	**STD 1**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**25B27874 BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 19:17**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.53	CHLORIDE	BMB	0.003	0.027	0.1993
5	7.77	SULFATE	bMB*	0.001	0.006	0.2137
		TOTAL:		0.00	0.03	0.41



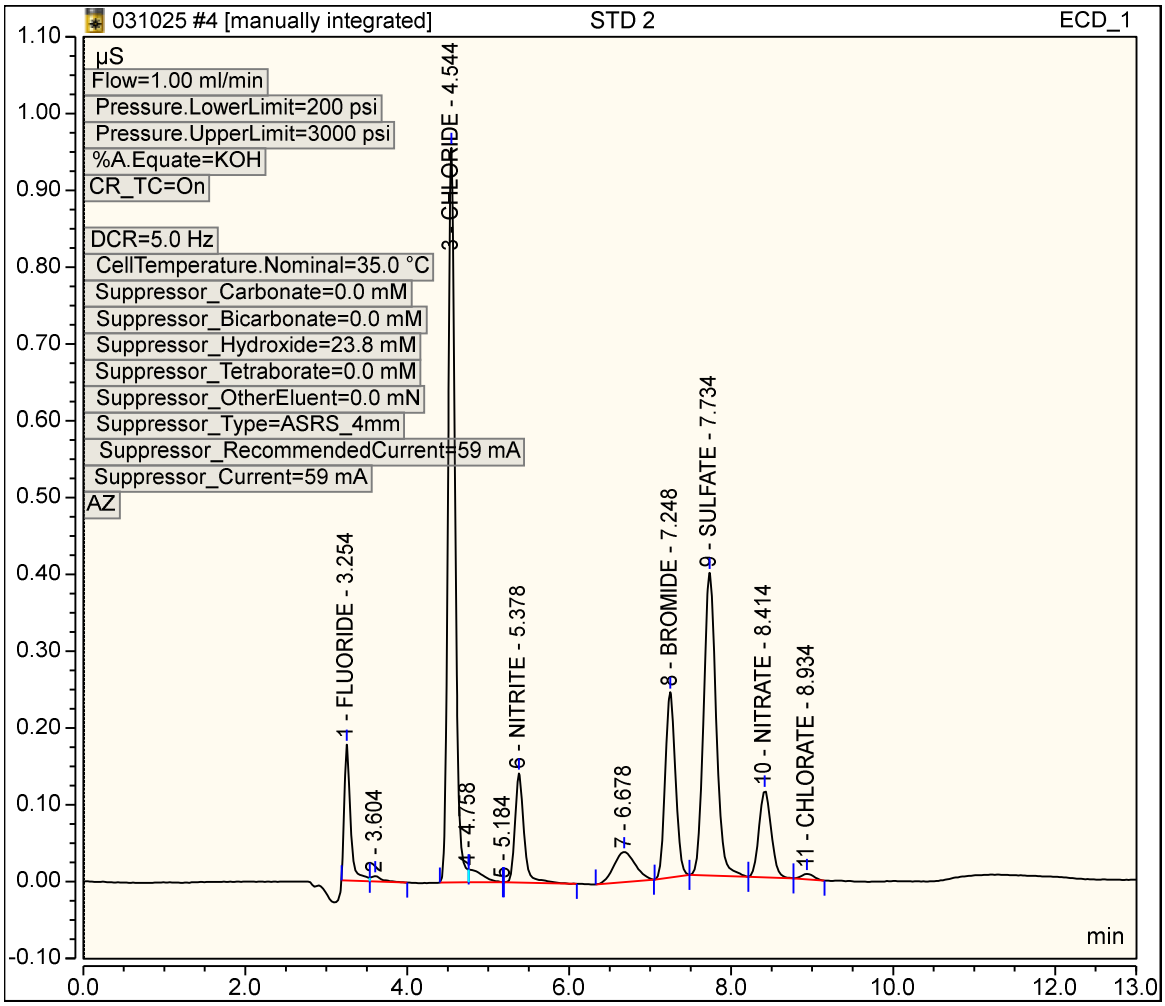
Sample Name:	**STD 1**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**25B27874**
Inj. Date/Time:	**03/10/25 19:17**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #3 - STD 1.

Sample Name:	**STD 2**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 19:33**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.25	FLUORIDE	BM	0.016	0.177	0.1154
3	4.54	CHLORIDE	BM *	0.097	0.957	0.9475
6	5.38	NITRITE	bMB*	0.018	0.142	0.1198
8	7.25	BROMIDE	BMB	0.035	0.241	1.2097
9	7.73	SULFATE	BMB	0.071	0.394	0.9992
10	8.41	NITRATE	BMB	0.020	0.113	0.1330
11	8.93	CHLORATE	BMB	0.001	0.007	0.0680
		TOTAL:		0.26	2.03	3.59



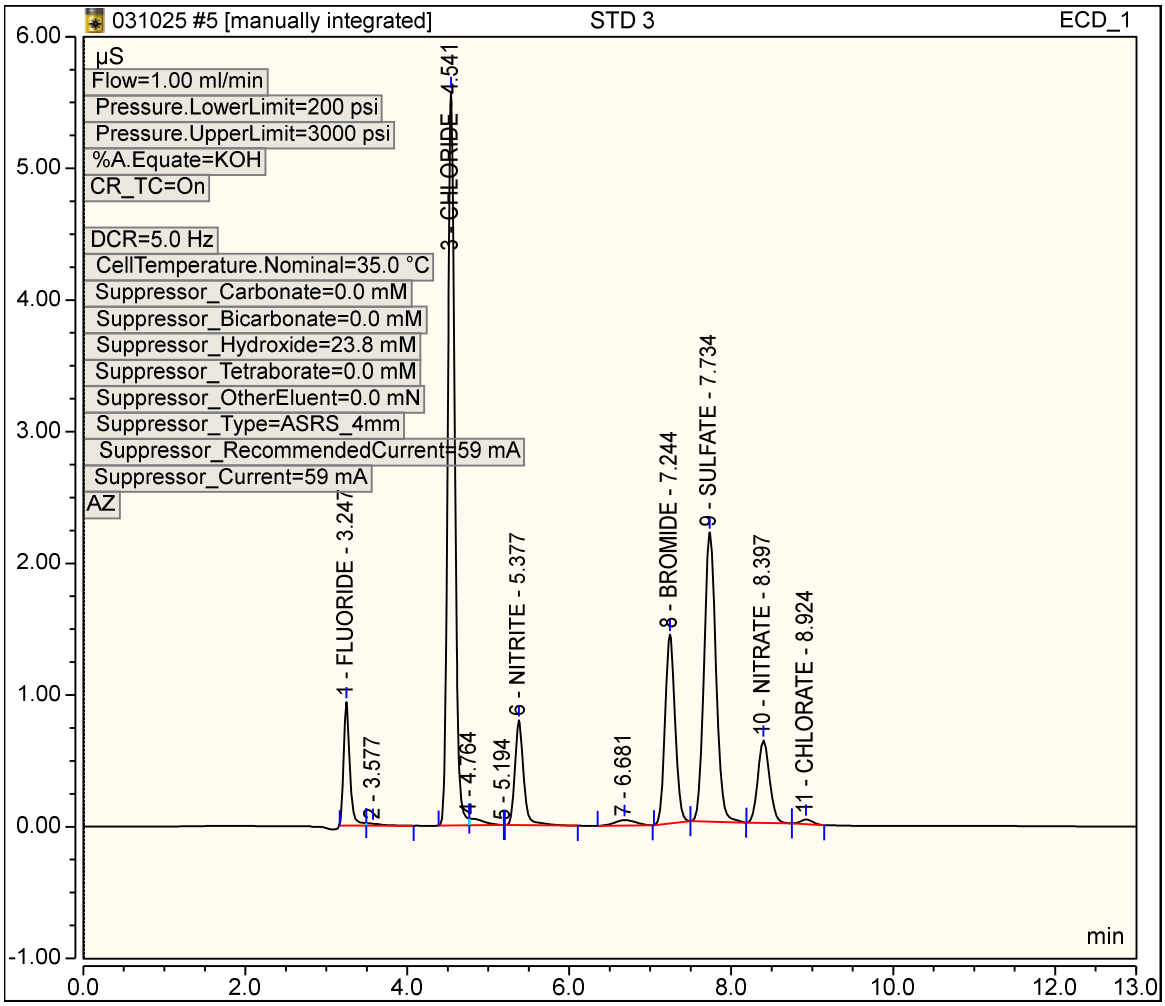
Sample Name:	**STD 2**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 19:33**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #4 - STD 2.

Sample Name:	**STD 3**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 19:49**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.25	FLUORIDE	BM	0.083	0.937	0.4599
3	4.54	CHLORIDE	BM *	0.557	5.571	4.6024
6	5.38	NITRITE	bMB*	0.099	0.796	0.4529
8	7.24	BROMIDE	BMB	0.205	1.433	4.4650
9	7.73	SULFATE	BMB	0.374	2.197	4.4270
10	8.40	NITRATE	BMB	0.105	0.626	0.4344
11	8.92	CHLORATE	BMB	0.006	0.036	0.2269
		TOTAL:		1.43	11.60	15.07



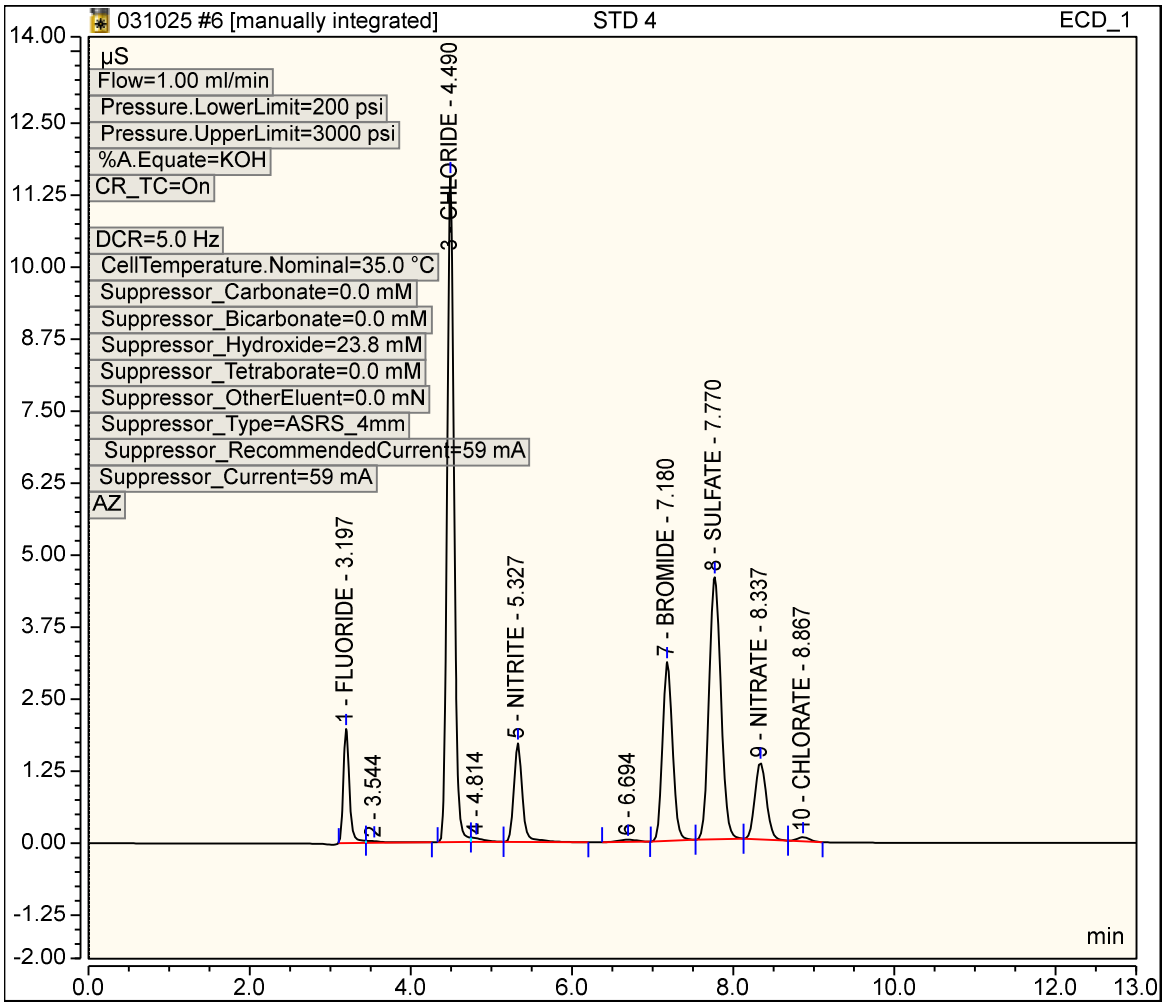
Sample Name:	**STD 3**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 19:49**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #5 - STD 3.

Sample Name:	**STD 4**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 20:05**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.20	FLUORIDE	BM	0.174	1.981	0.9294
3	4.49	CHLORIDE	BM *	1.161	11.547	9.3983
5	5.33	NITRITE	bMB*	0.211	1.709	0.9127
7	7.18	BROMIDE	BMB	0.446	3.107	9.0885
8	7.77	SULFATE	BMB	0.781	4.547	9.0186
9	8.34	NITRATE	BMB	0.221	1.336	0.8421
10	8.87	CHLORATE	BMB	0.012	0.071	0.4239
		TOTAL:		3.01	24.30	30.61



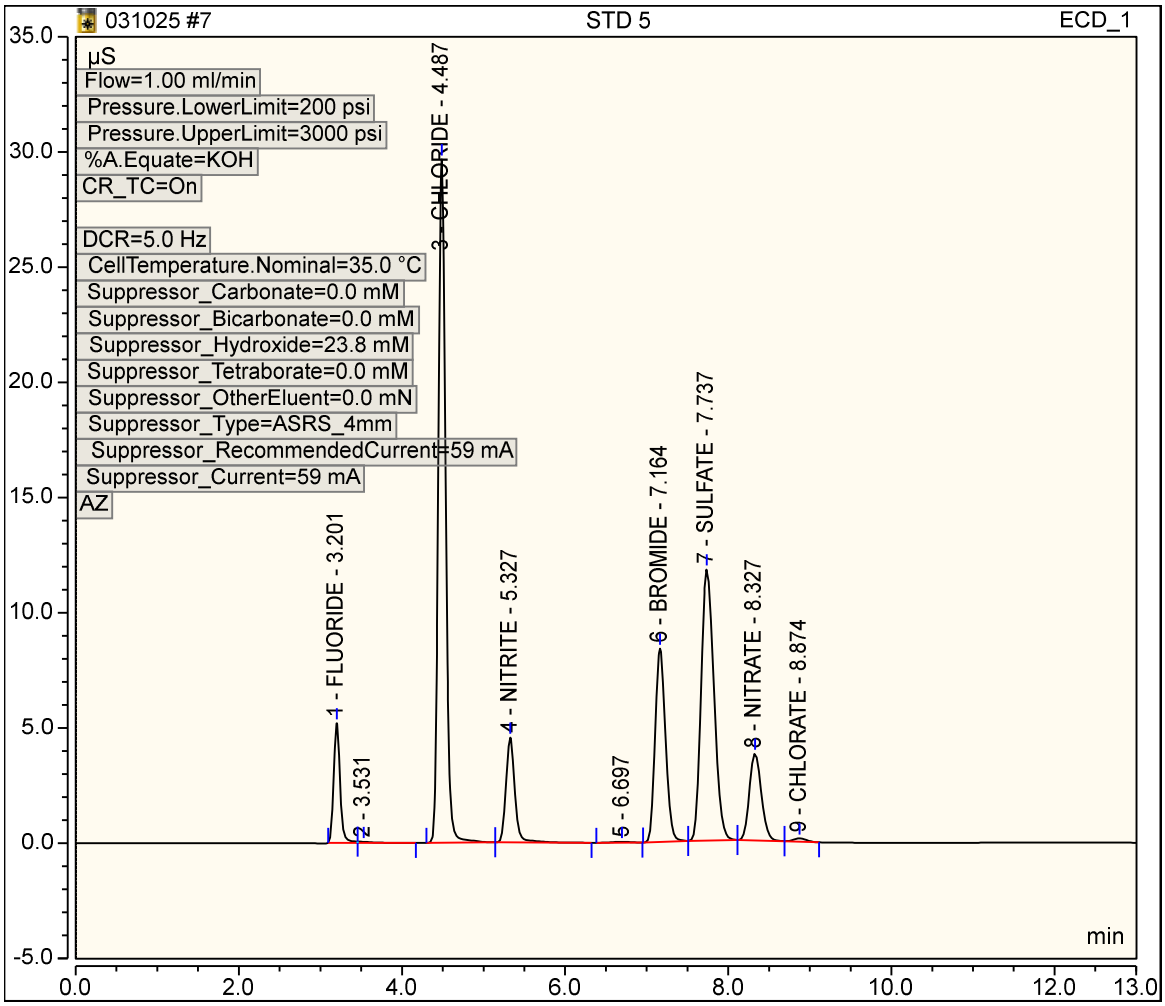
Sample Name:	**STD 4**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 20:05**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #6 - STD 4.

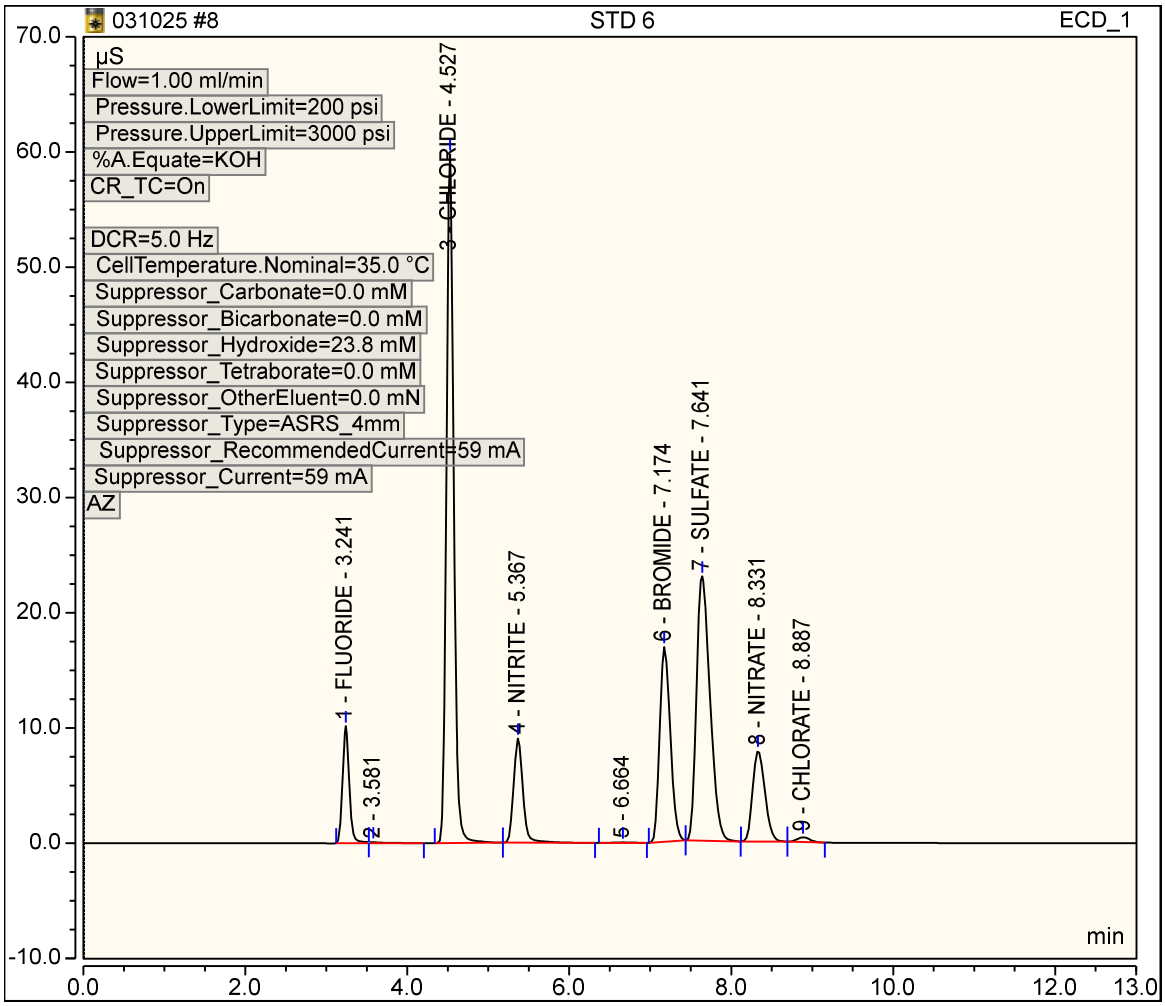
Sample Name:	**STD 5**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 20:20**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.20	FLUORIDE	BM	0.467	5.196	2.4429
3	4.49	CHLORIDE	BMB	3.053	29.665	24.4224
4	5.33	NITRITE	BMB	0.576	4.553	2.4105
6	7.16	BROMIDE	BMB	1.234	8.392	24.1968
7	7.74	SULFATE	BMB	2.144	11.774	24.4085
8	8.33	NITRATE	BMB	0.642	3.770	2.3231
9	8.87	CHLORATE	BMB	0.026	0.148	0.8602
		TOTAL:		8.14	63.50	81.06



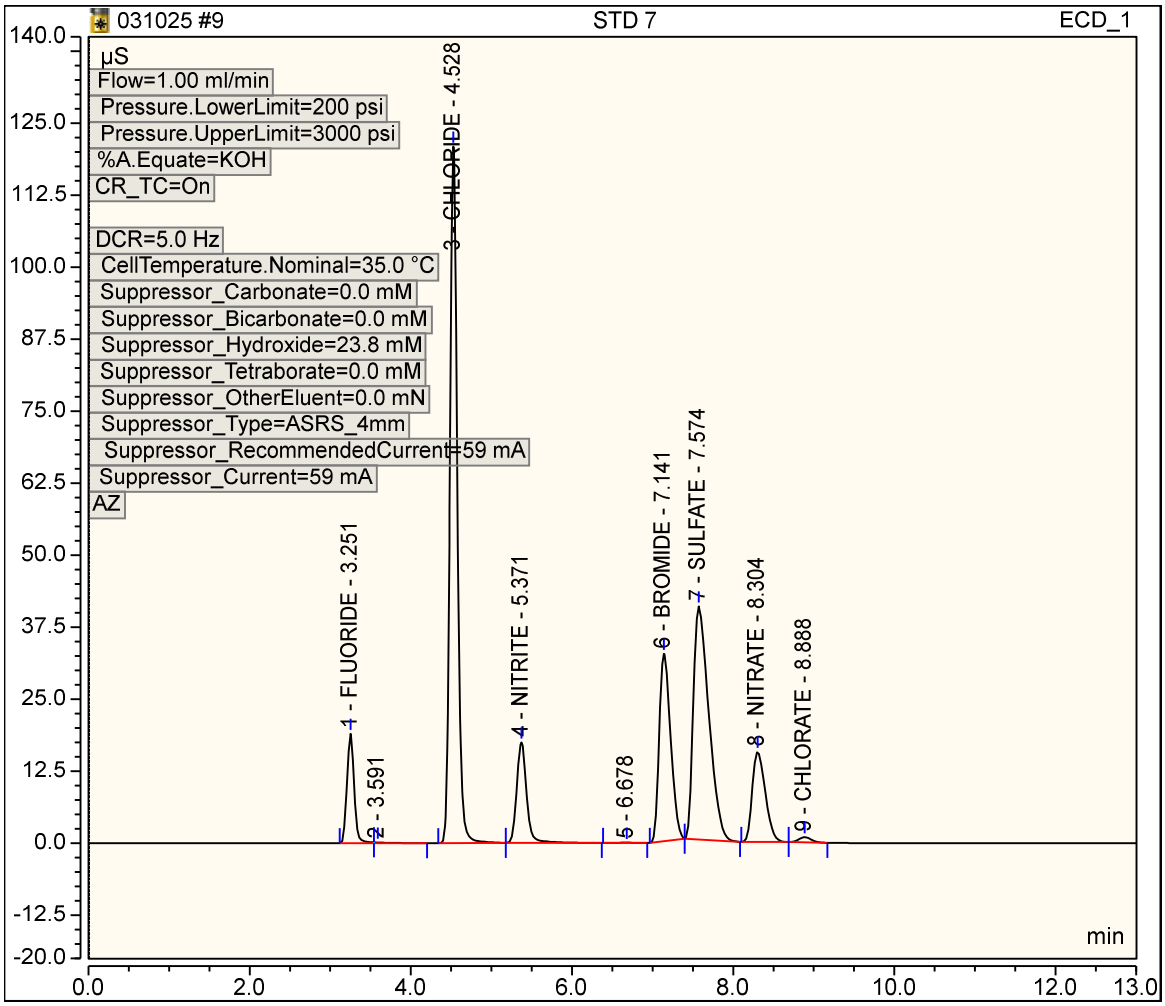
Sample Name:	**STD 6**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 20:36**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.24	FLUORIDE	BM	0.972	10.151	5.0468
3	4.53	CHLORIDE	BMB	6.270	59.777	49.9645
4	5.37	NITRITE	BMB	1.204	9.037	4.9934
6	7.17	BROMIDE	BMB	2.581	16.902	50.0198
7	7.64	SULFATE	BMB	4.428	22.924	50.2038
8	8.33	NITRATE	BMB	1.385	7.900	4.9364
9	8.89	CHLORATE	BMB	0.074	0.414	2.4024
		TOTAL:		16.91	127.11	167.57



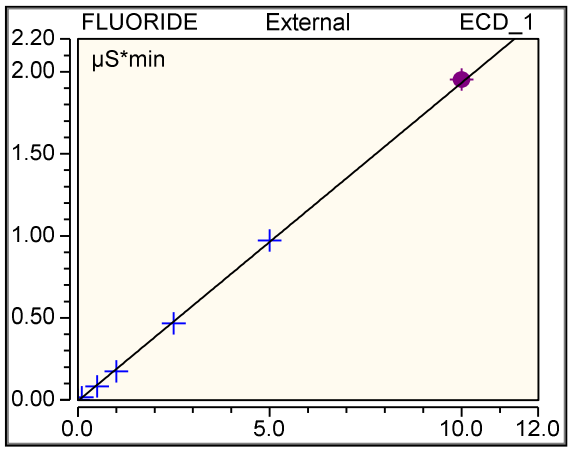
Sample Name:	**STD 7**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 20:52**	*Run Time:*	**13.00**

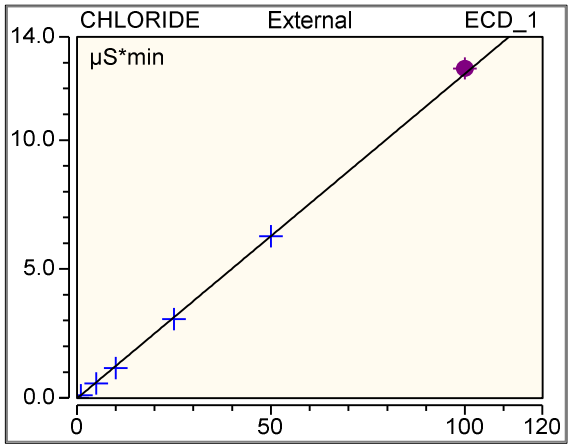
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.25	FLUORIDE	BM	1.953	19.003	10.1056
3	4.53	CHLORIDE	BMB	12.781	120.902	101.6648
4	5.37	NITRITE	BMB	2.474	17.454	10.2108
6	7.14	BROMIDE	BMB	5.293	32.513	102.0202
7	7.57	SULFATE	BMB	9.011	40.464	101.9429
8	8.30	NITRATE	BMB	2.947	15.701	10.4311
9	8.89	CHLORATE	BMB	0.164	0.908	5.3186
		TOTAL:		34.62	246.94	341.69

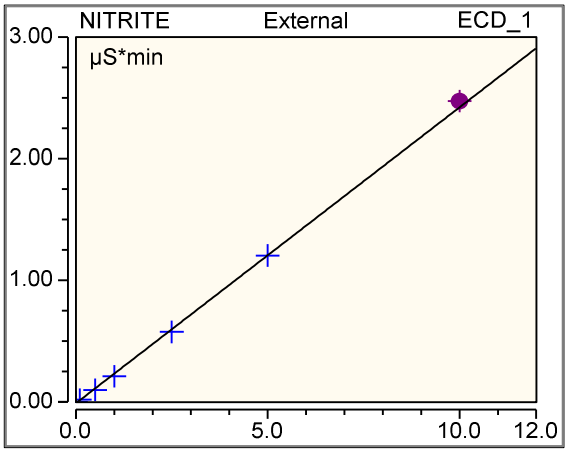


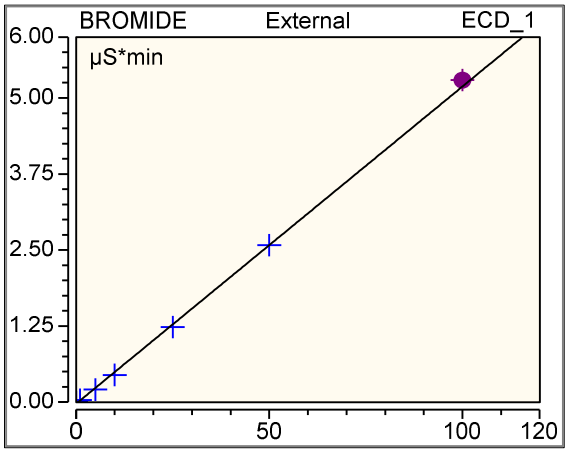
Calibration Batch Report

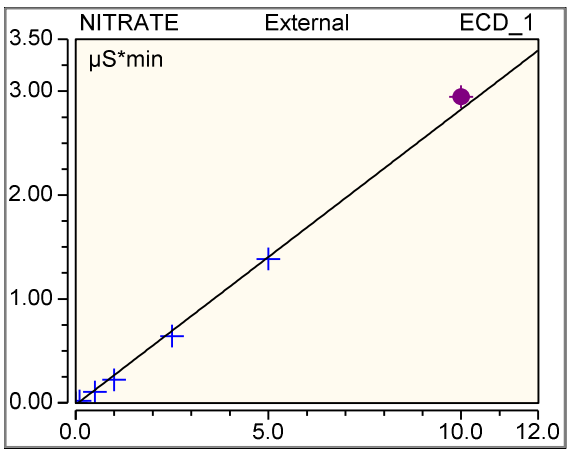
Sequence:	**031025**	Inj. Vol.:	**25.0**
Program:	**IC10CAL012725**	Operator:	**WETLABIC8**
Inj. Date/Time:	**03/10/25 20:52**	Run Time:	**13.00**

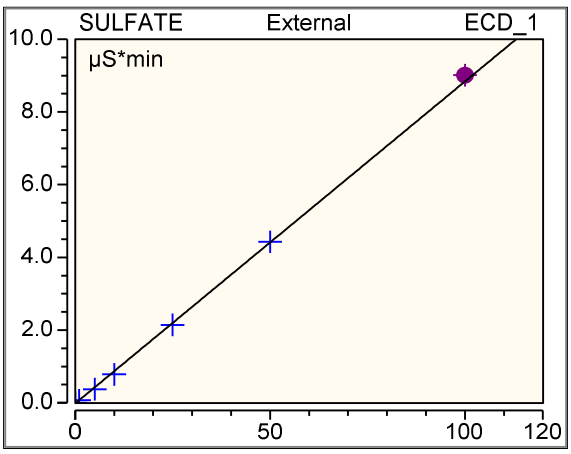




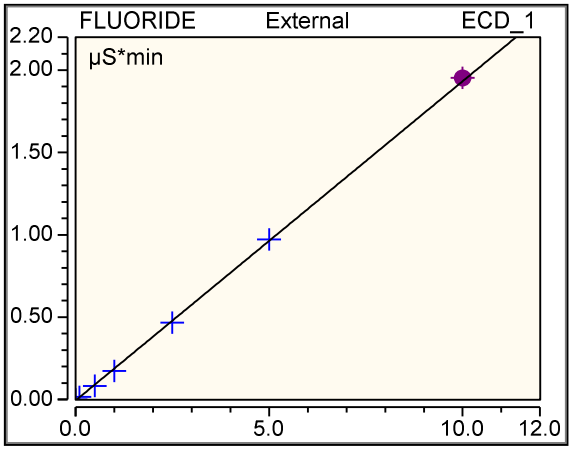








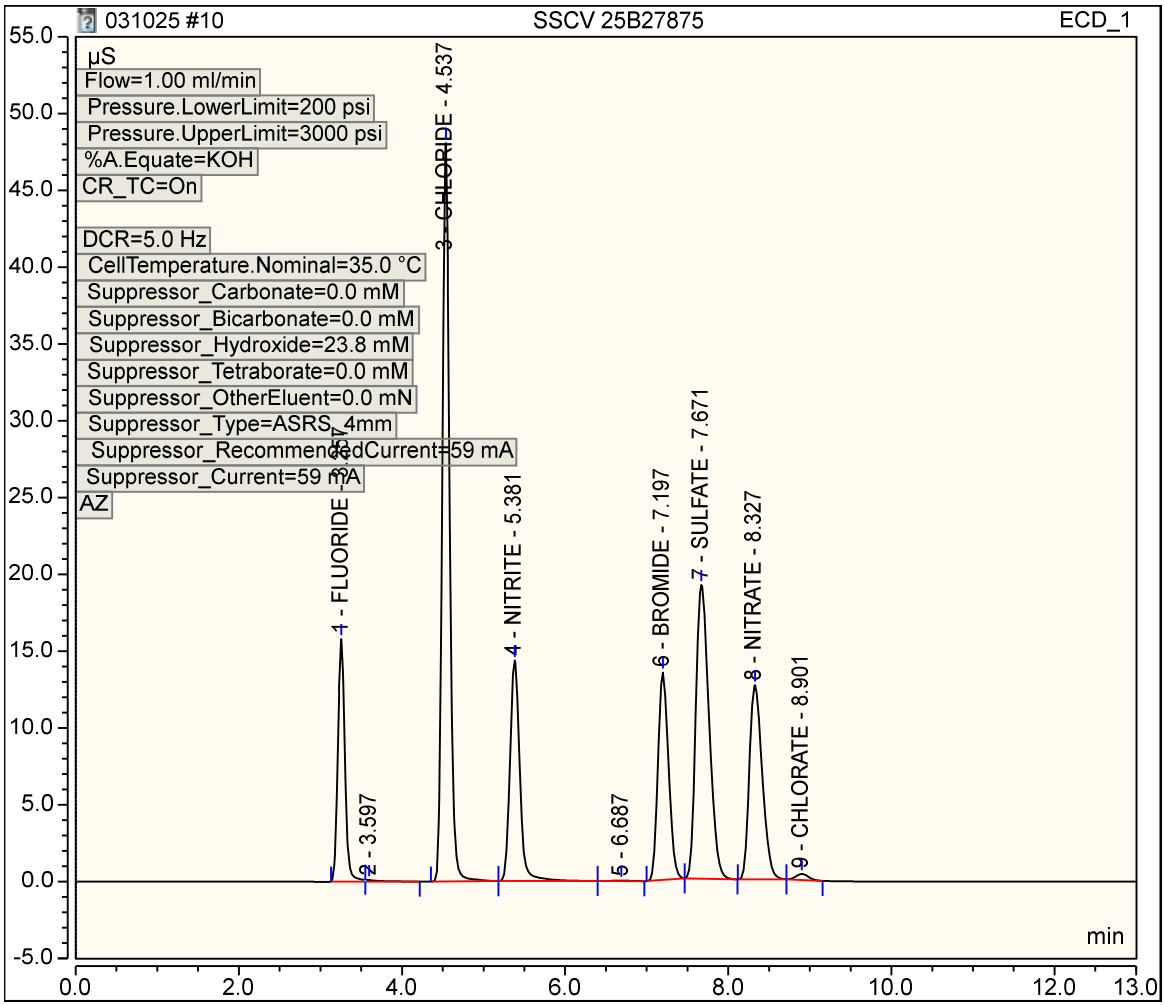
Sequence:	**031025**	*Inj. Vol.:*	**25.0**
Program:	**IC10CAL012725**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/10/25 20:52**	*Run Time:*	**13.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.25	FLUORIDE	, WithOffset,	6	-0.006	0.194	0.000	99.959
3	4.53	CHLORIDE	, WithOffset,	7	-0.022	0.126	0.000	99.957
4	5.37	NITRITE	, WithOffset,	6	-0.011	0.243	0.000	99.928
6	7.14	BROMIDE	, WithOffset,	6	-0.028	0.052	0.000	99.924
7	7.57	SULFATE	, WithOffset,	7	-0.018	0.089	0.000	99.926
8	8.30	NITRATE	, WithOffset,	6	-0.018	0.284	0.000	99.769
9	8.89	CHLORATE	, WithOffset,	6	-0.001	0.031	0.000	99.603
AVERAGE:					-0.0149	0.1456	0.0000	99.8667

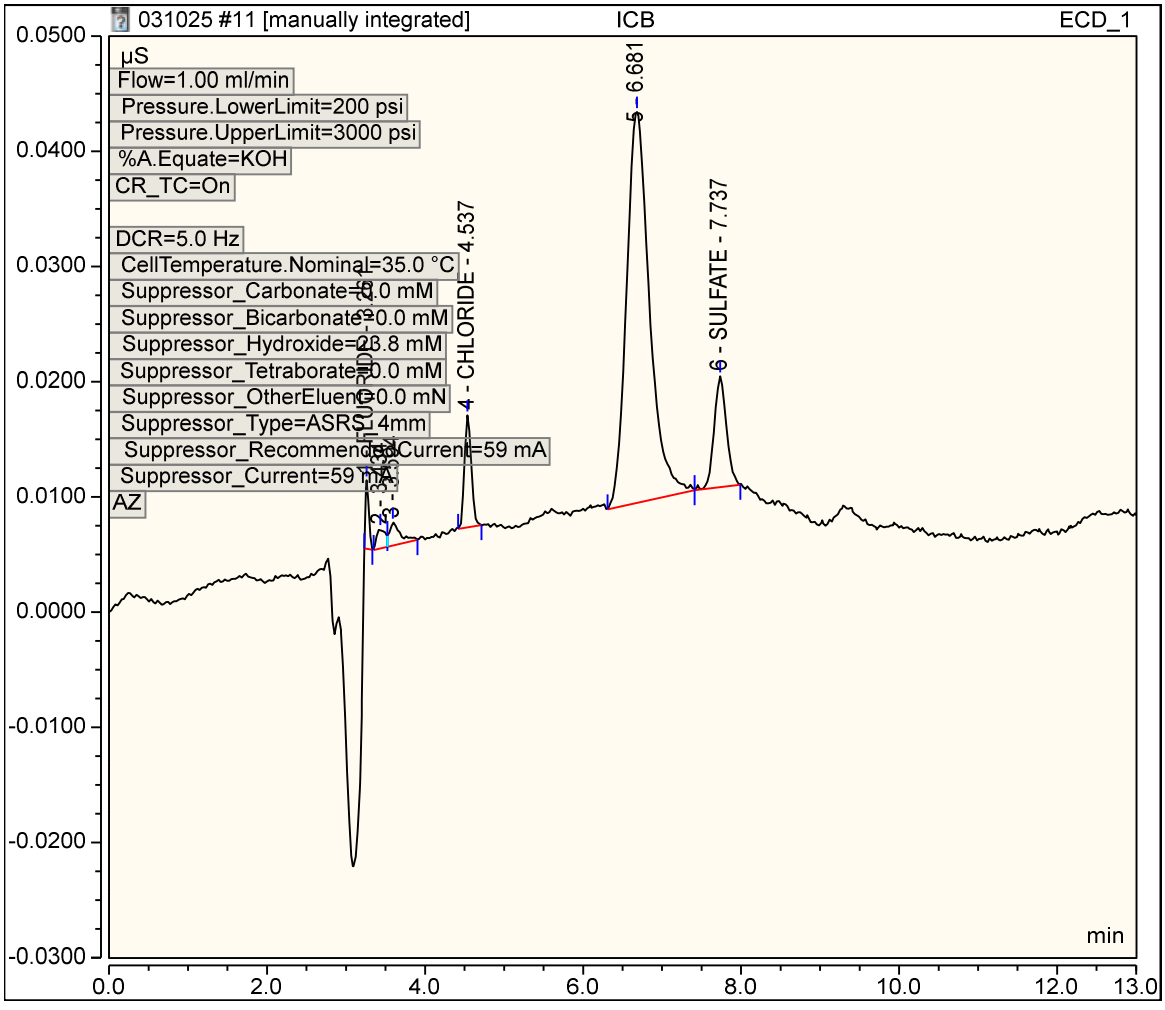
Sample Name:	**SSCV 25B27875**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 21:08**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.26	FLUORIDE	BM	1.577	15.782	8.1676
3	4.54	CHLORIDE	BMB	5.021	48.073	40.0440
4	5.38	NITRITE	BMB	1.999	14.354	8.2604
6	7.20	BROMIDE	BMB	2.034	13.529	39.5320
7	7.67	SULFATE	BMB	3.592	19.131	40.7608
8	8.33	NITRATE	BMB	2.313	12.635	8.2014
9	8.90	CHLORATE	BMB	0.070	0.398	2.2999
		TOTAL:		16.61	123.90	147.27



Sample Name:	**ICB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 21:24**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.26	FLUORIDE	BMB	0.000	0.006	0.0348
4	4.54	CHLORIDE	BMB	0.001	0.010	0.1851
6	7.74	SULFATE	bMB*	0.002	0.010	0.2219
		TOTAL:		0.00	0.03	0.44



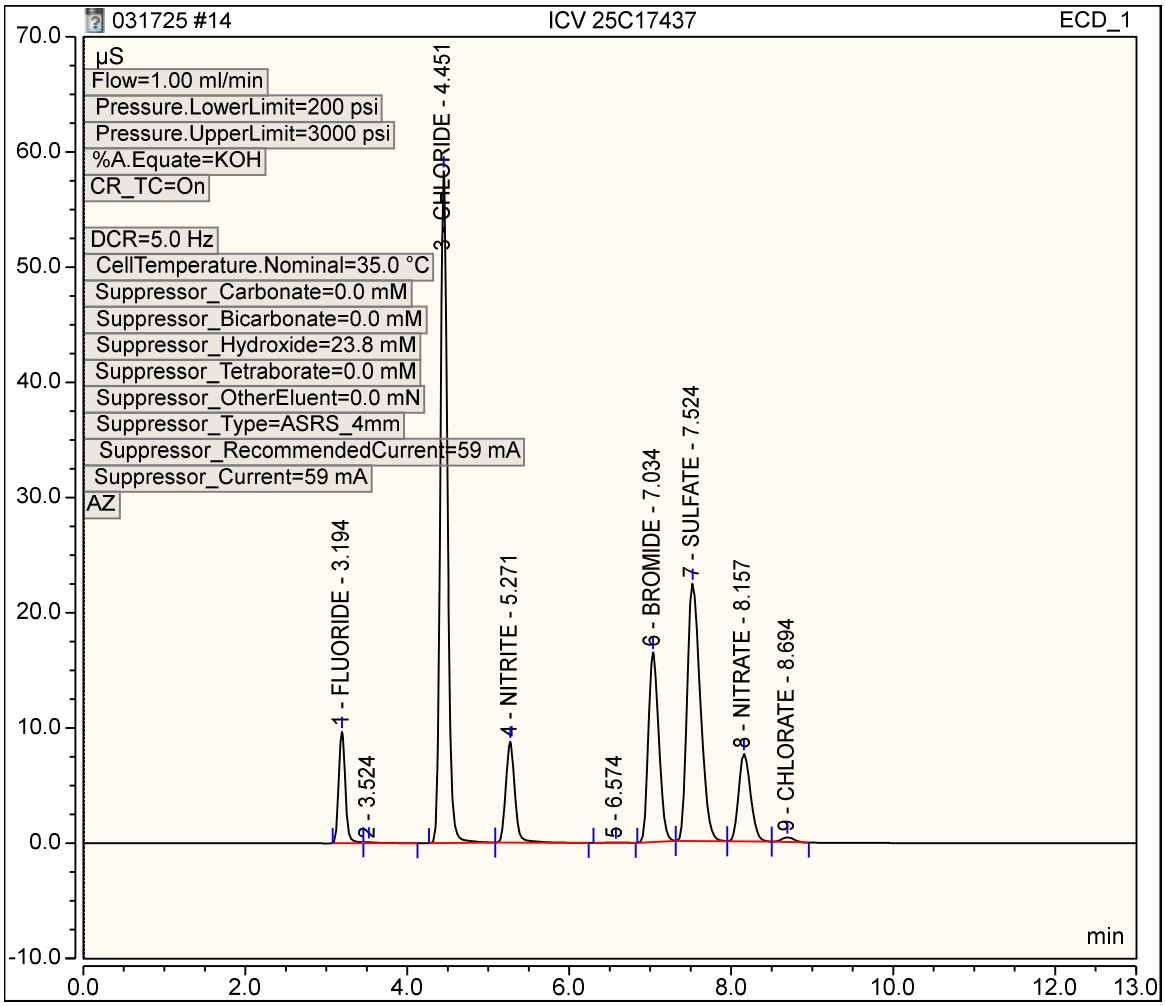
Sample Name:	**ICB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 21:24**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #11 - ICB.

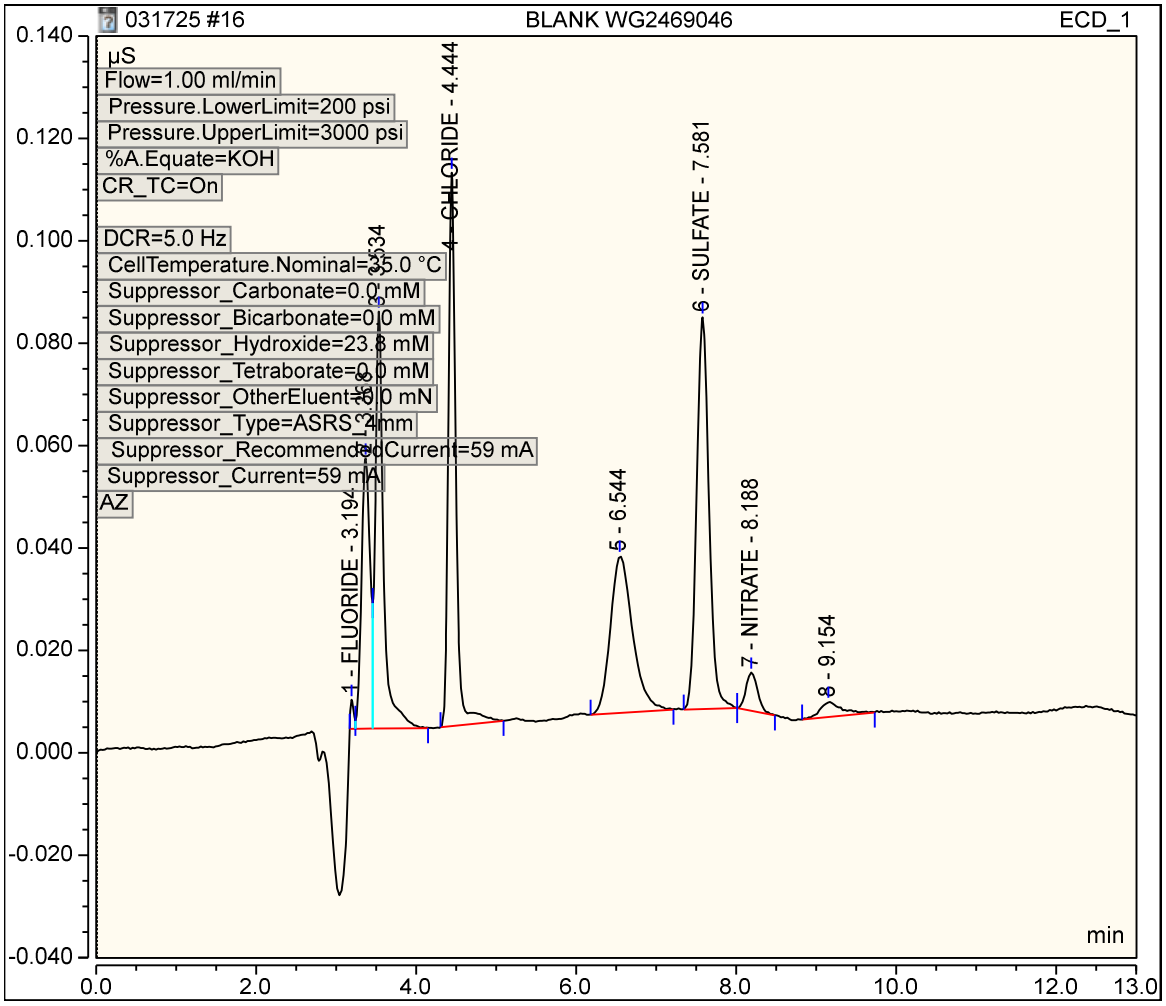
Sample Name:	**ICV 25C17437**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 09:06**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.904	9.655	4.6962
3	4.45	CHLORIDE	BMB	6.023	58.318	48.0038
4	5.27	NITRITE	BMB	1.139	8.761	4.7241
6	7.03	BROMIDE	BMB	2.462	16.440	47.7451
7	7.52	SULFATE	BMB	4.222	22.333	47.8774
8	8.16	NITRATE	BMB	1.296	7.586	4.6243
9	8.69	CHLORATE	BMB	0.071	0.406	2.3264
		TOTAL:		16.12	123.50	160.00



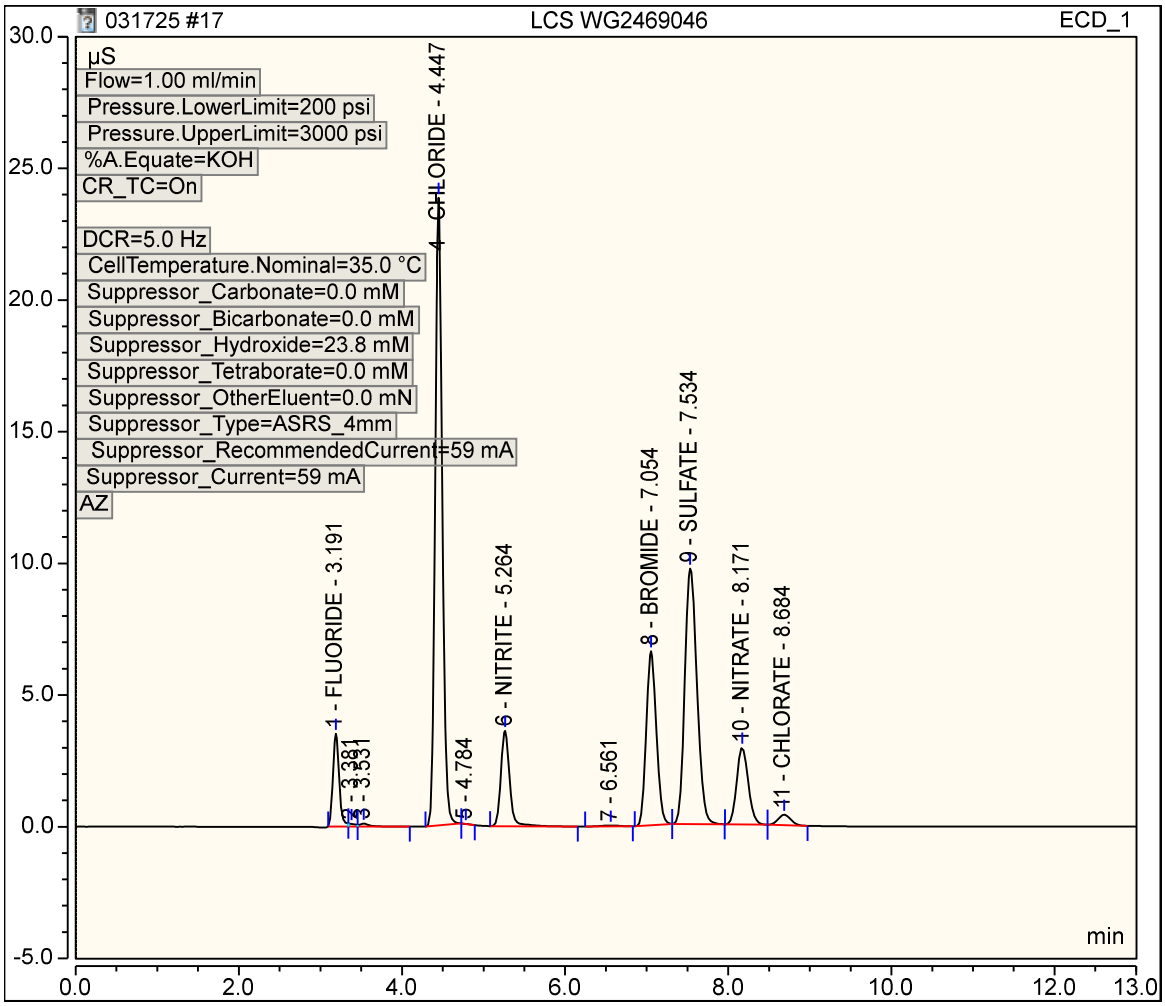
Sample Name:	**BLANK WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 13:13**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.000	0.006	0.0346
4	4.44	CHLORIDE	BMB	0.012	0.108	0.2708
6	7.58	SULFATE	BMB	0.014	0.077	0.3573
7	8.19	NITRATE	BMB	0.001	0.007	0.0684
		TOTAL:		0.03	0.20	0.73



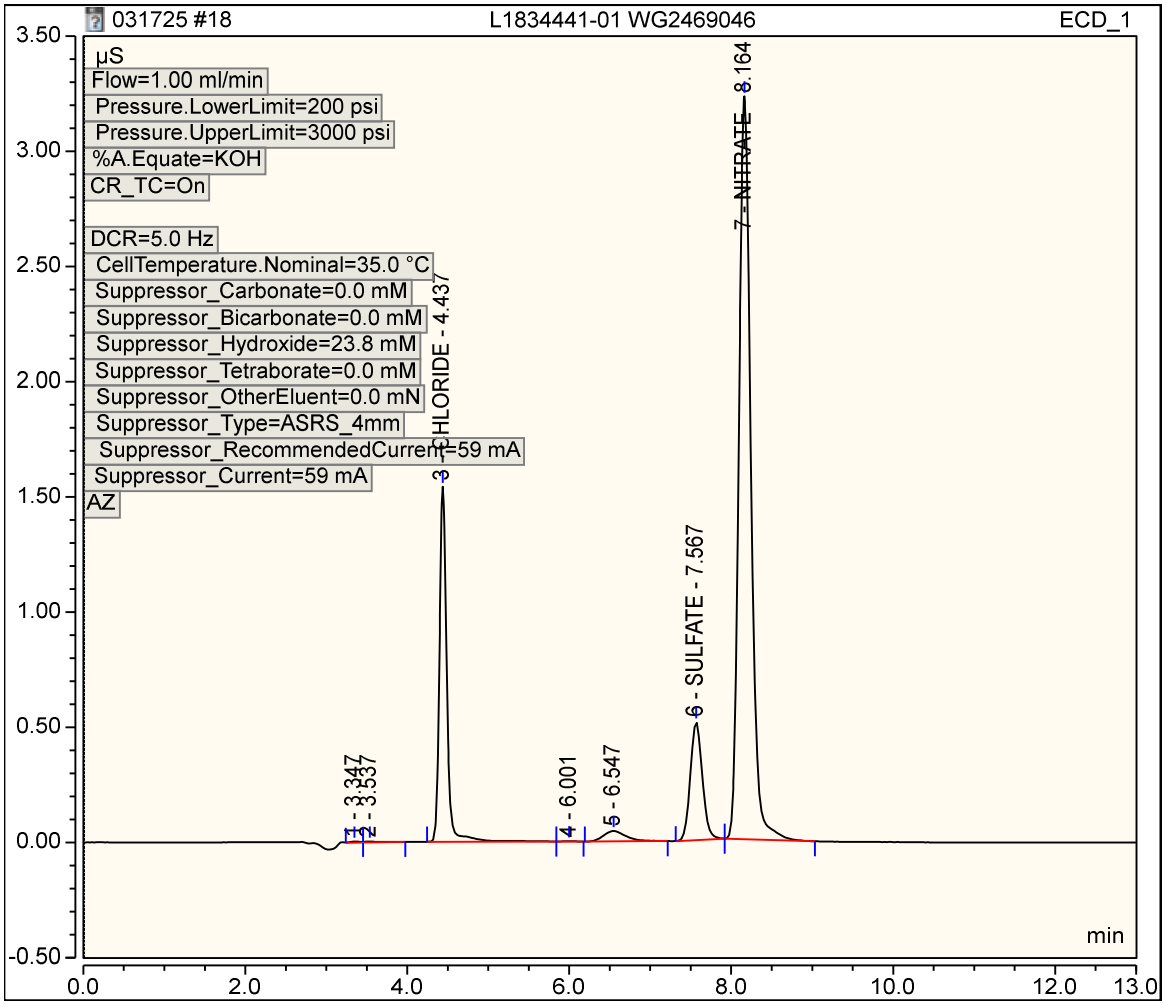
Sample Name:	**LCS WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 13:28**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.307	3.526	1.6154
4	4.45	CHLORIDE	BMB	2.399	23.842	19.2292
6	5.26	NITRITE	BMB	0.448	3.619	1.8874
8	7.05	BROMIDE	BMB	0.948	6.616	18.6999
9	7.53	SULFATE	BMB	1.674	9.702	19.1053
10	8.17	NITRATE	BMB	0.480	2.921	1.7526
11	8.68	CHLORATE	BMB	0.071	0.398	2.3162
		TOTAL:		6.33	50.62	64.61



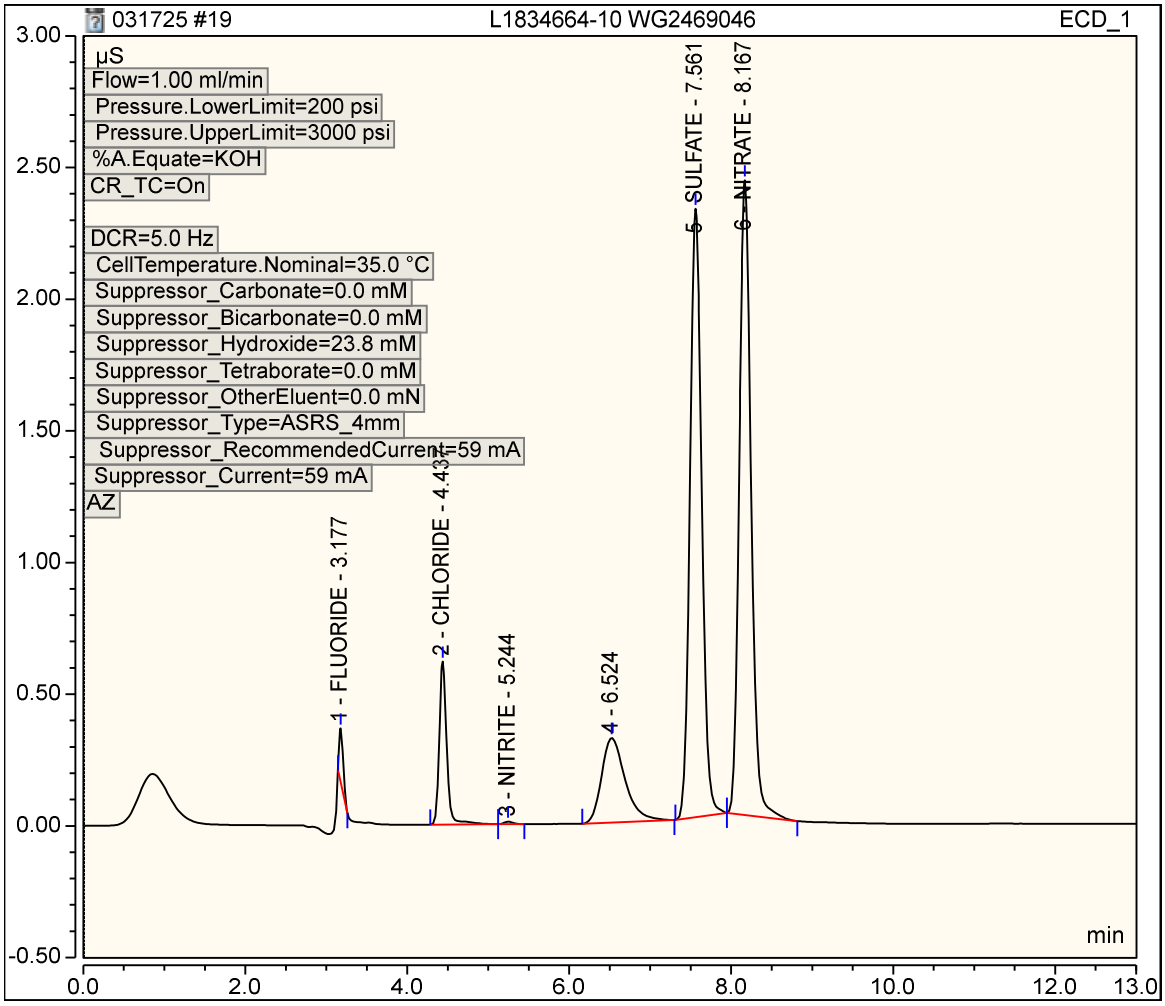
Sample Name:	**L1834441-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**5.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 13:44**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.44	CHLORIDE	BMB	0.161	1.541	7.2597
6	7.57	SULFATE	BMB	0.088	0.512	5.9759
7	8.16	NITRATE	BMB	0.552	3.224	10.0354
		TOTAL:		0.80	5.28	23.27



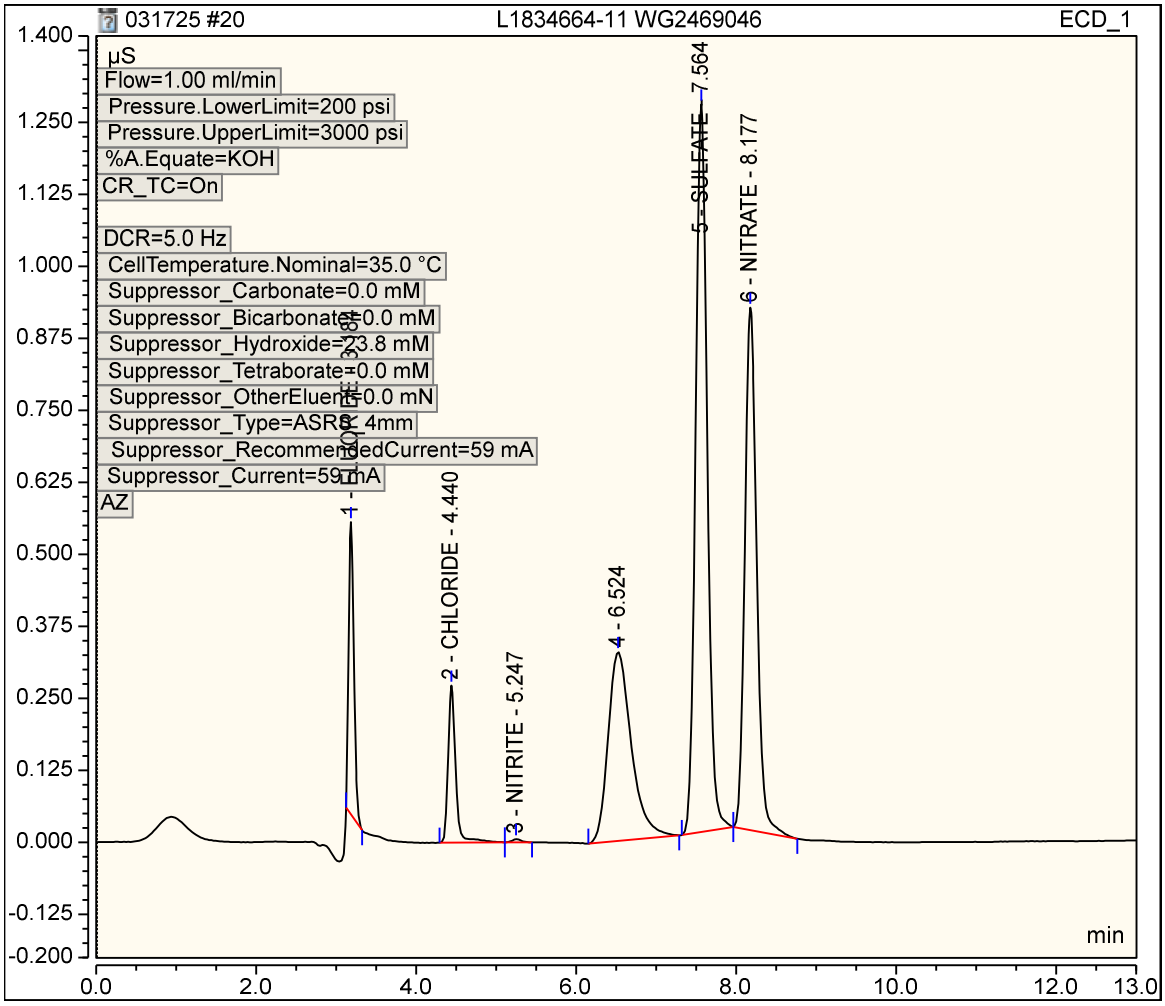
Sample Name:	**L1834664-10 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 14:00**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.012	0.206	0.0936
2	4.44	CHLORIDE	BMB	0.065	0.619	0.6957
3	5.24	NITRITE	BMB	0.001	0.010	0.0490
5	7.56	SULFATE	BMB	0.386	2.310	4.5653
6	8.17	NITRATE	BMB	0.408	2.410	1.4977
		TOTAL:		0.87	5.55	6.90



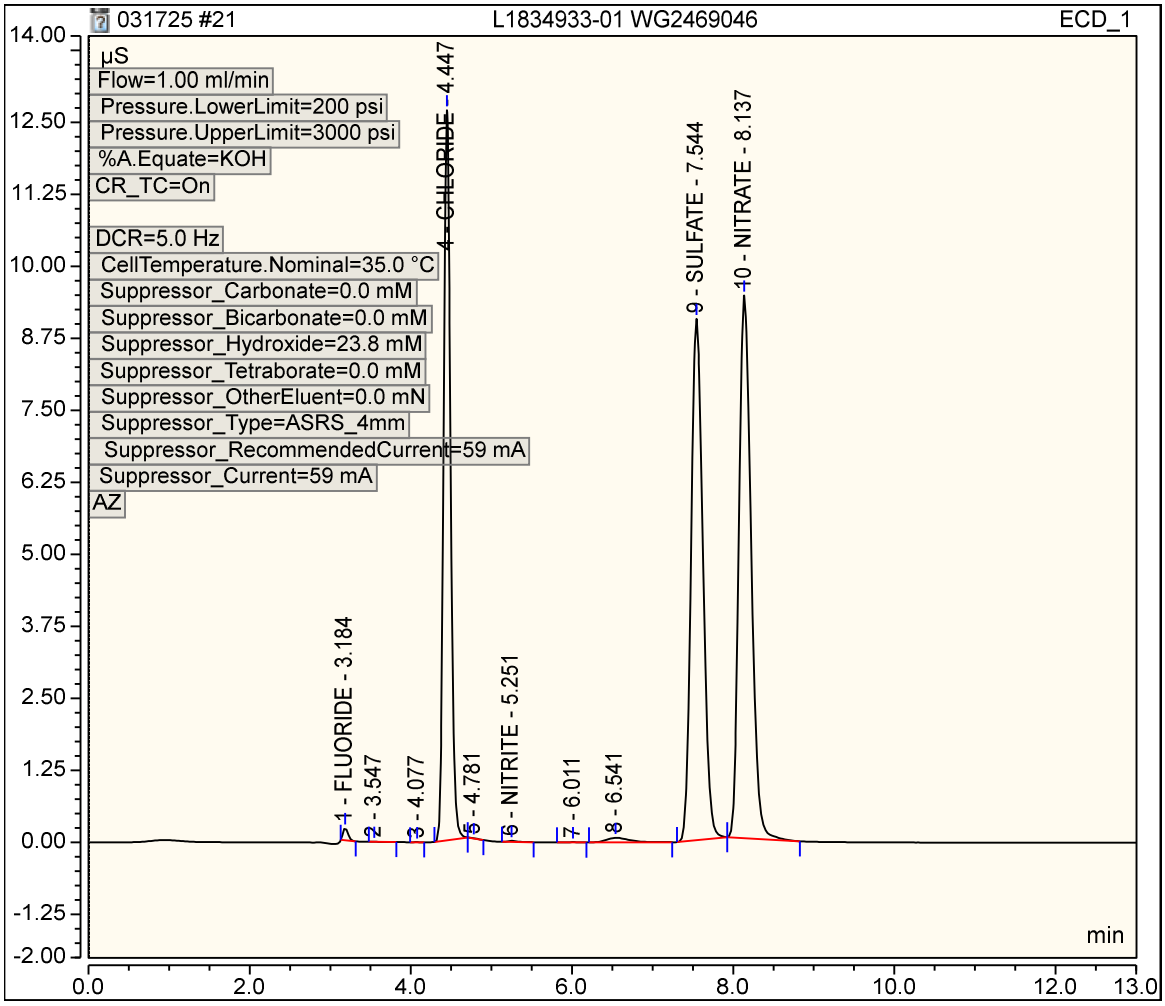
Sample Name:	**L1834664-11 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 14:16**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.039	0.507	0.2330
2	4.44	CHLORIDE	BMB	0.030	0.273	0.4126
3	5.25	NITRITE	BMB	0.001	0.006	0.0471
5	7.56	SULFATE	BMB	0.214	1.263	2.6176
6	8.18	NITRATE	BMB	0.155	0.907	0.6095
		TOTAL:		0.44	2.96	3.92



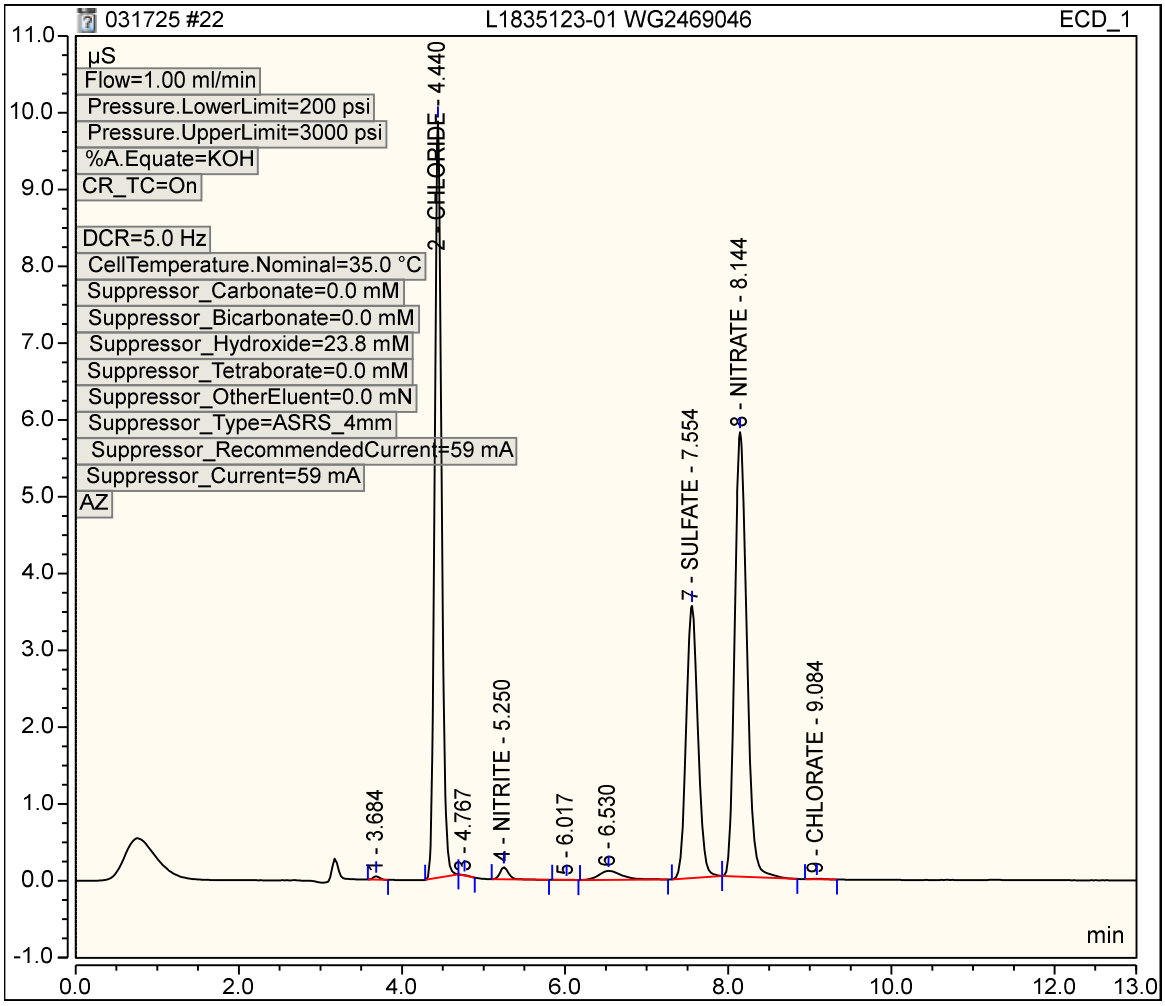
Sample Name:	**L1834933-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 14:32**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.016	0.213	0.1144
4	4.45	CHLORIDE	BMB	1.254	12.676	10.1338
6	5.25	NITRITE	BMB	0.002	0.018	0.0534
9	7.54	SULFATE	BMB	1.541	9.050	17.6024
10	8.14	NITRATE	BMB	1.662	9.423	5.9104
		TOTAL:		4.48	31.38	33.81



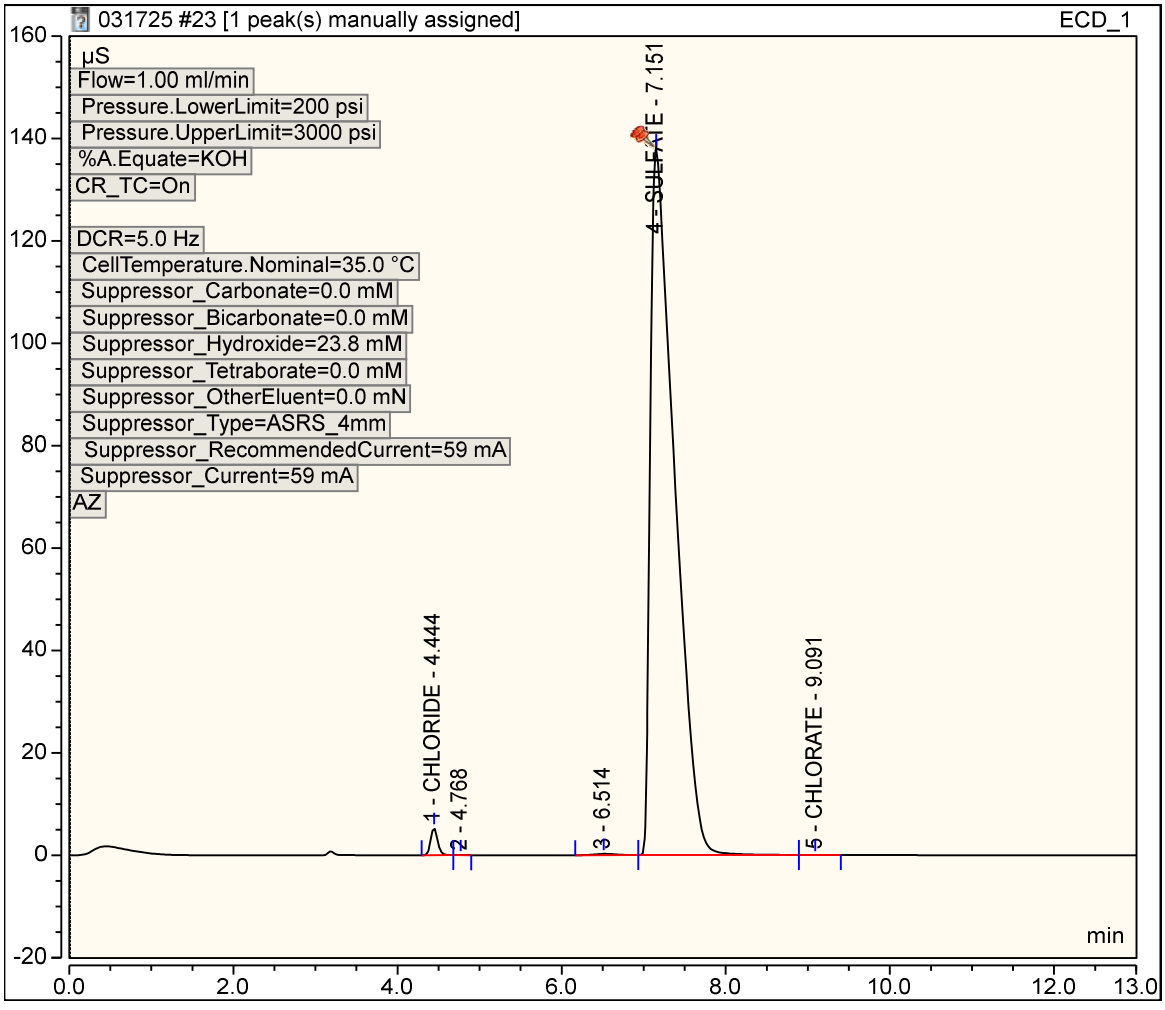
Sample Name:	**L1835123-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 14:47**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
2	4.44	CHLORIDE	BMB	0.969	9.847	7.8685
4	5.25	NITRITE	BMB	0.020	0.160	0.1256
7	7.55	SULFATE	BMB	0.589	3.544	6.8565
8	8.14	NITRATE	BMB	0.995	5.789	3.5655
9	9.08	CHLORATE	BMB	0.001	0.005	0.0610
		TOTAL:		2.57	19.35	18.48



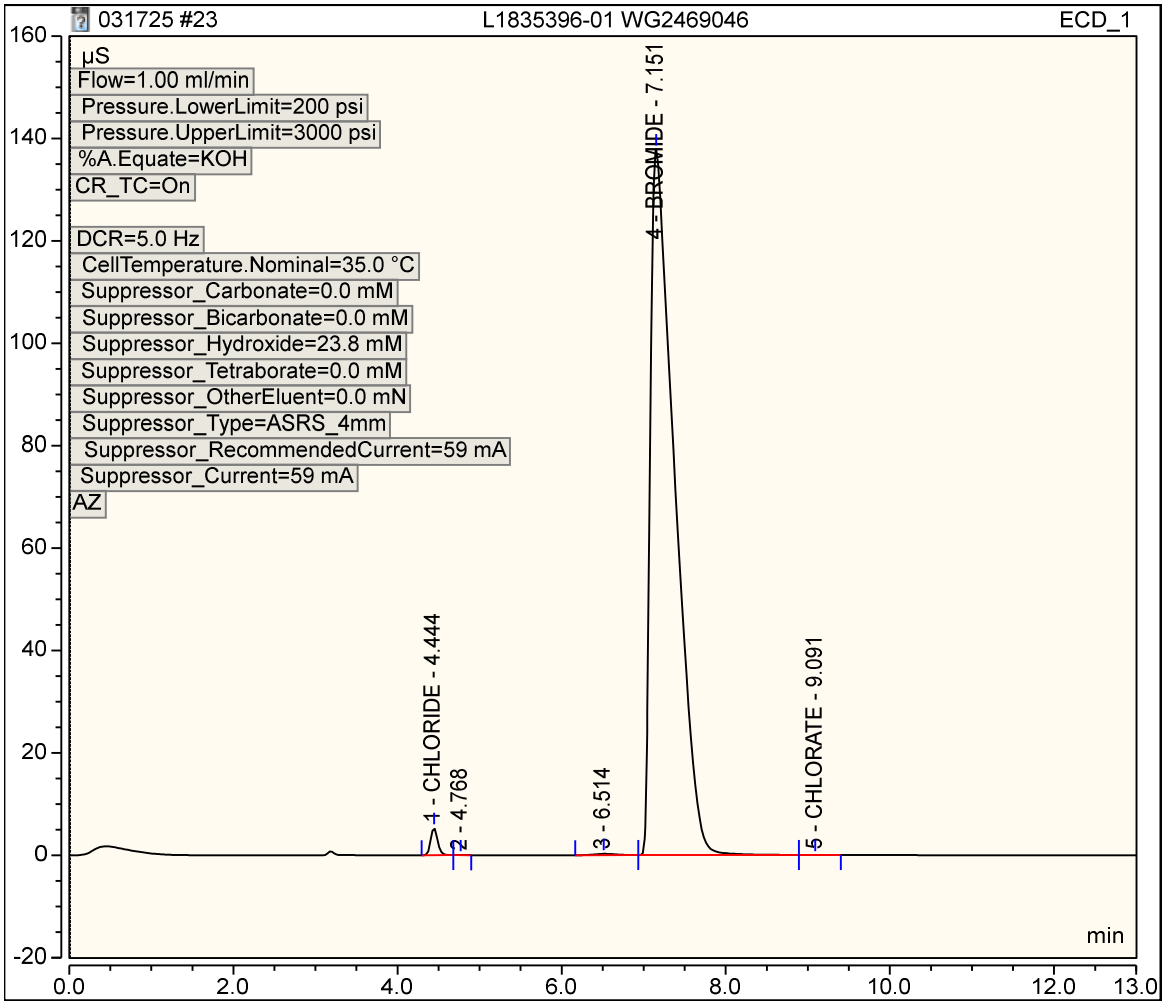
Sample Name:	**L1835396-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 15:03**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	4.44	CHLORIDE	BMB	0.518	5.315	4.2864
4	7.15	SULFATE	BMB^	46.944	137.834	530.2389
5	9.09	CHLORATE	BMB	0.006	0.027	0.2090
		TOTAL:		47.47	143.18	534.73



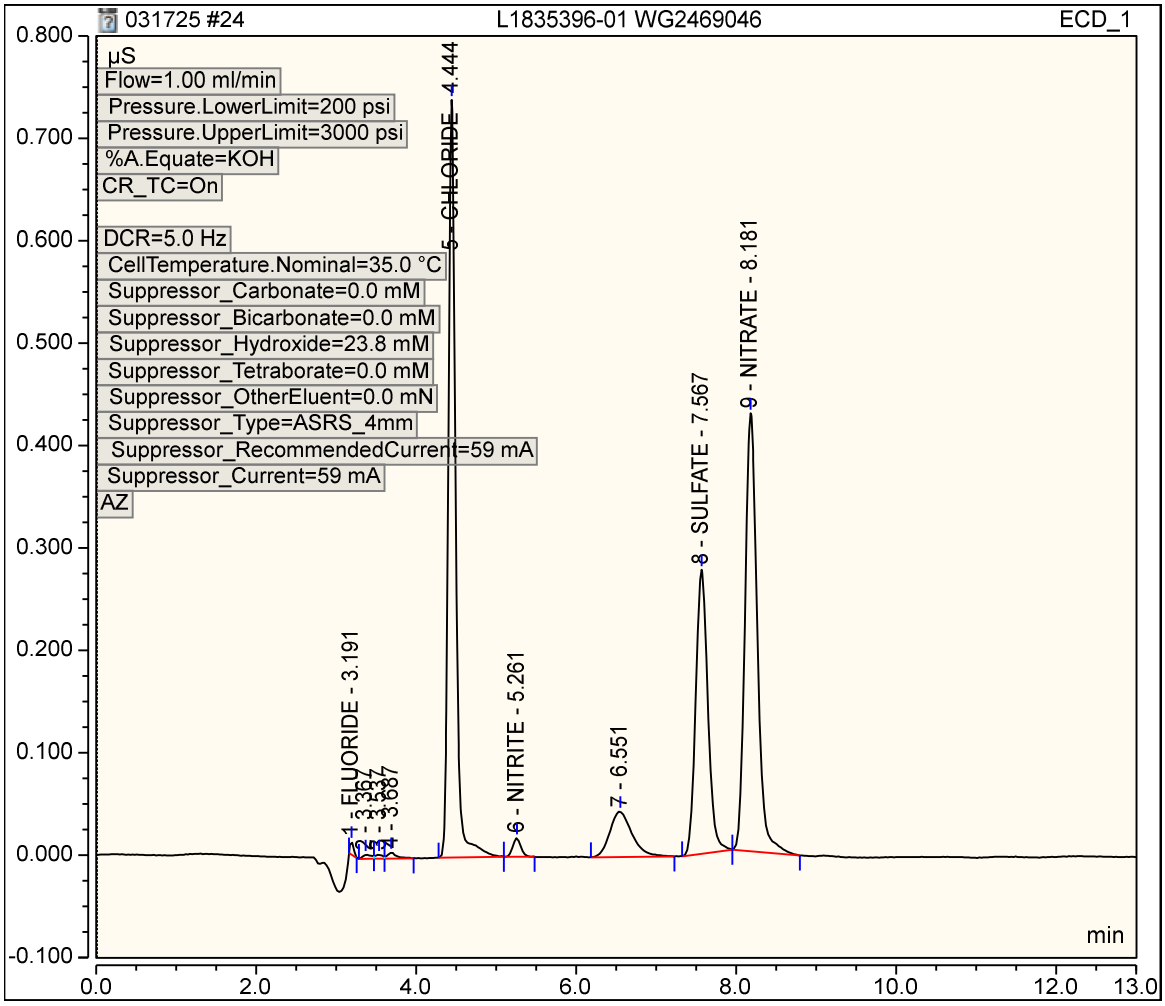
Sample Name:	**L1835396-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 15:03**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	4.44	CHLORIDE	BMB	0.518	5.315	4.2864
4	7.15	BROMIDE	BMB	46.944	137.834	900.5941
5	9.09	CHLORATE	BMB	0.006	0.027	0.2090
		TOTAL:		47.47	143.18	905.09



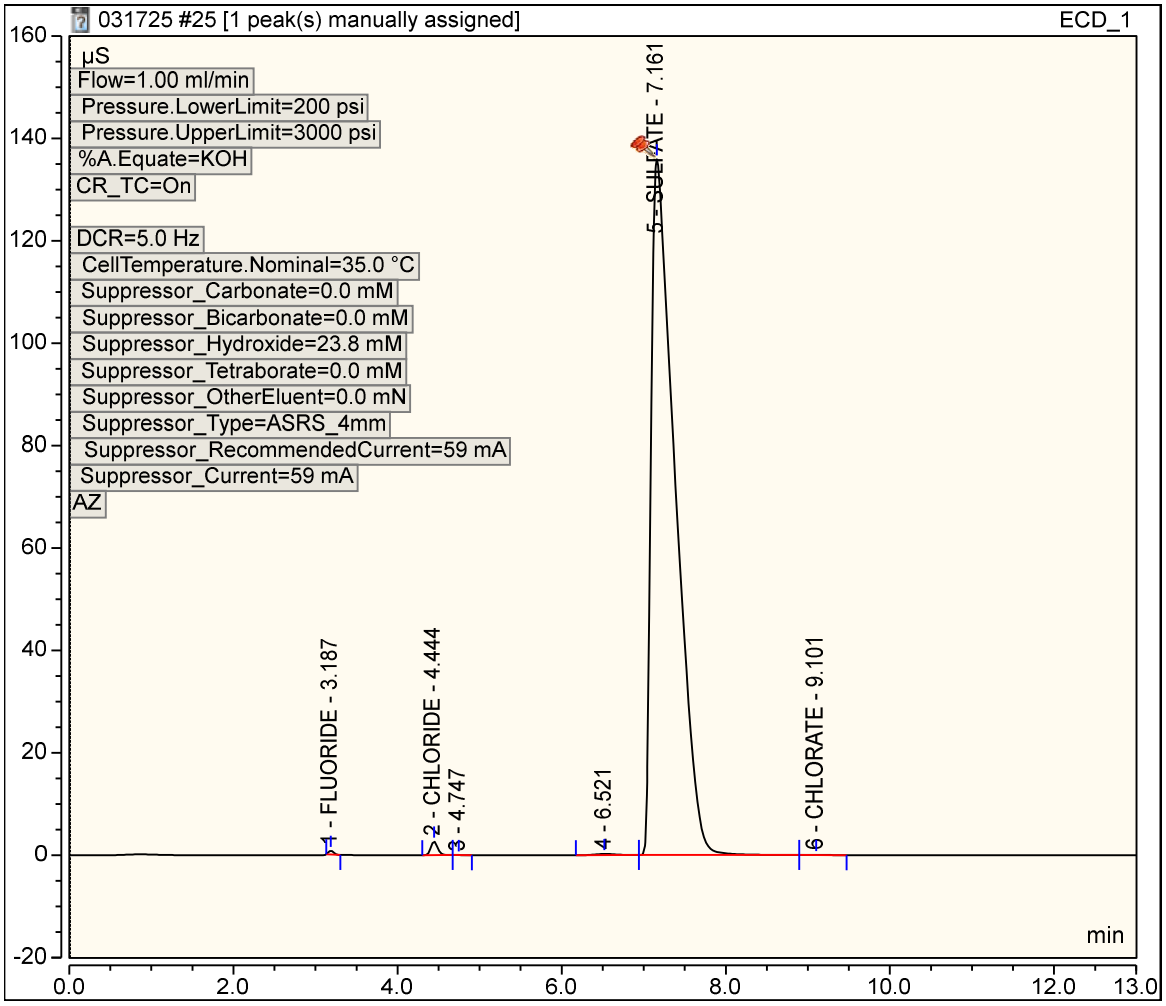
Sample Name:	**L1835396-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 15:19**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.001	0.013	0.3658
5	4.44	CHLORIDE	BMB	0.078	0.740	7.9415
6	5.26	NITRITE	BMB	0.002	0.018	0.5307
8	7.57	SULFATE	BMB	0.049	0.277	7.5219
9	8.18	NITRATE	BMB	0.075	0.428	3.2925
		TOTAL:		0.20	1.48	19.65



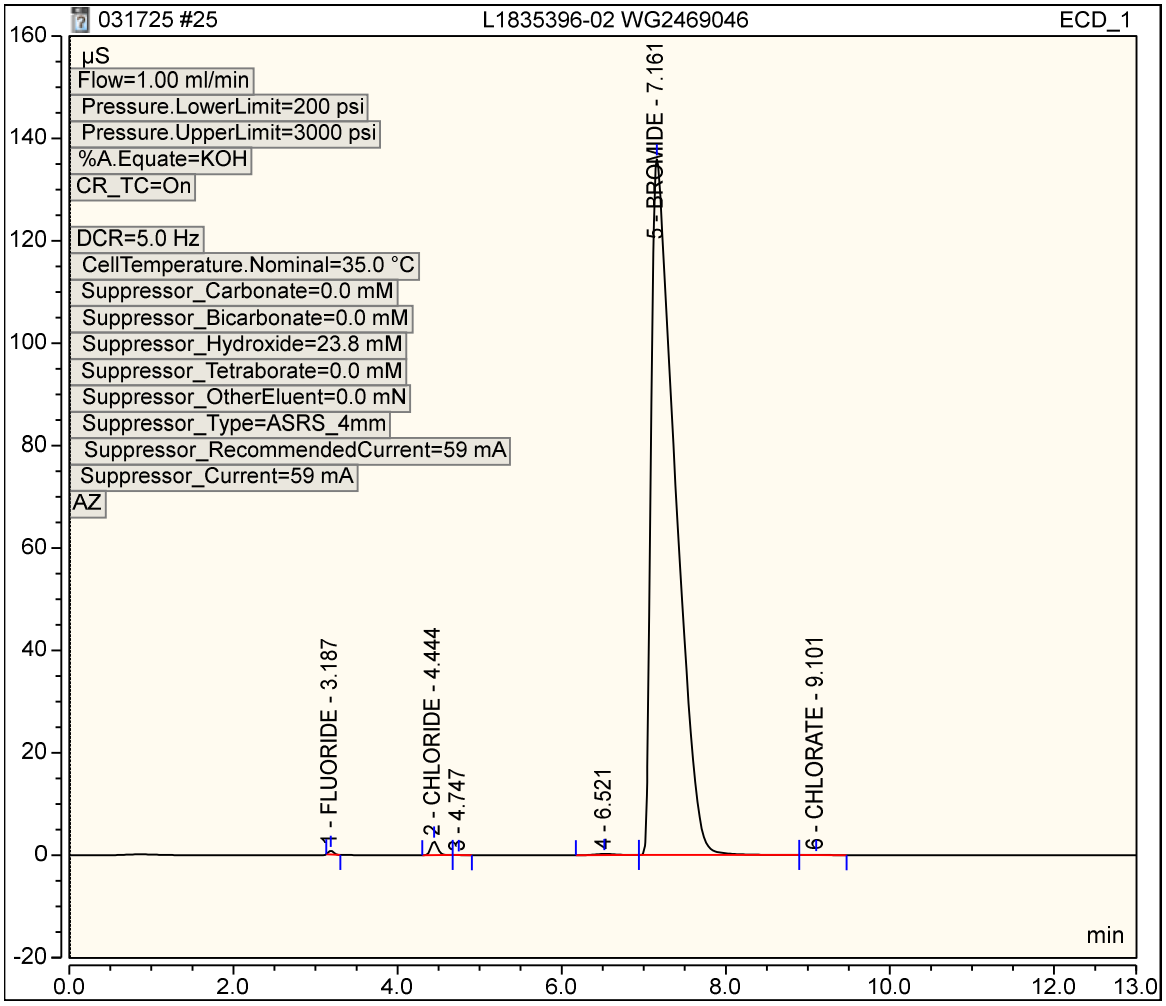
Sample Name:	**L1835396-02 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 15:35**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.055	0.752	0.3164
2	4.44	CHLORIDE	BMB	0.258	2.670	2.2294
5	7.16	SULFATE	BMB^	45.877	135.868	518.1987
6	9.10	CHLORATE	BMB	0.006	0.029	0.2232
		TOTAL:		46.20	139.32	520.97



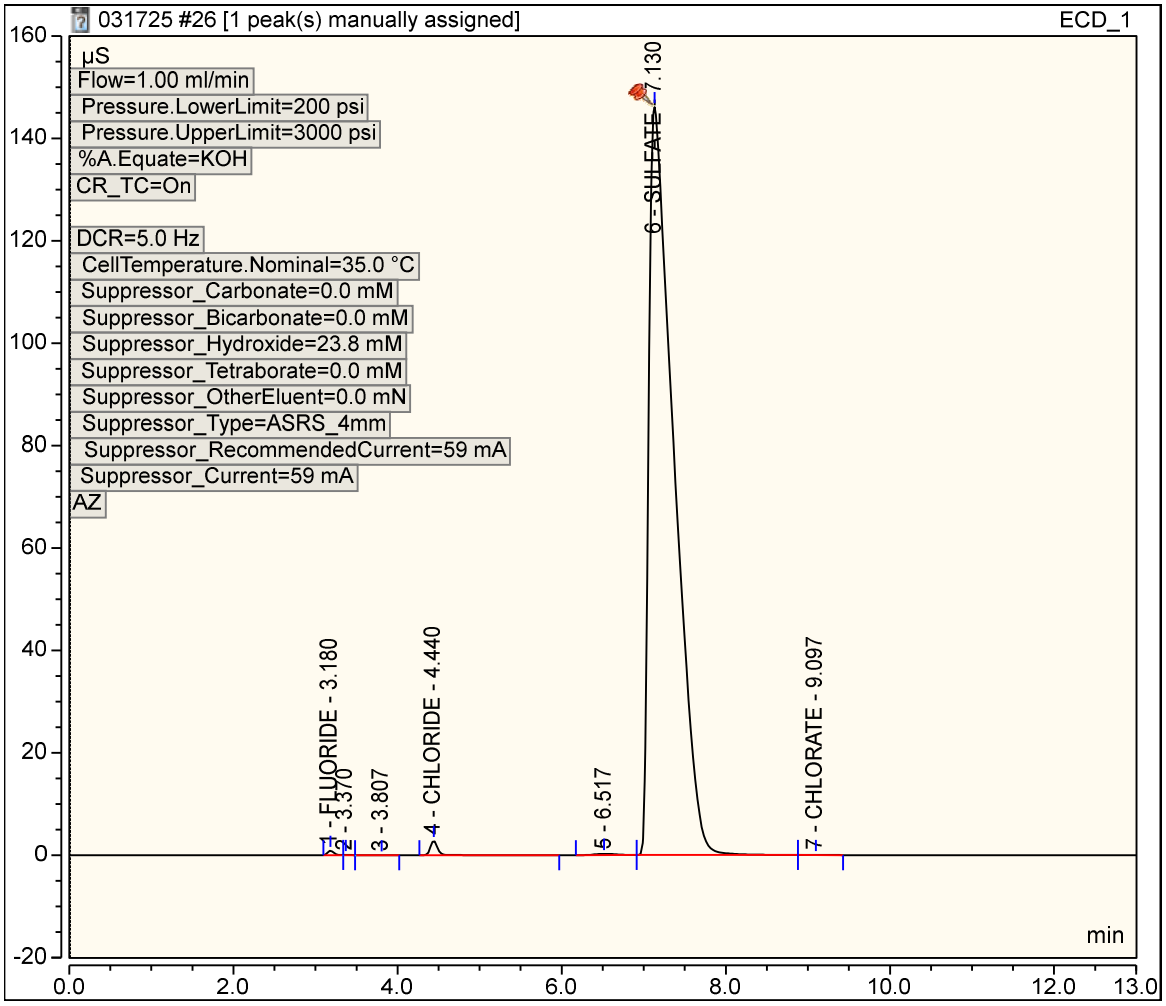
Sample Name:	**L1835396-02 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 15:35**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.055	0.752	0.3164
2	4.44	CHLORIDE	BMB	0.258	2.670	2.2294
5	7.16	BROMIDE	BMB	45.877	135.868	880.1486
6	9.10	CHLORATE	BMB	0.006	0.029	0.2232
		TOTAL:		46.20	139.32	882.92



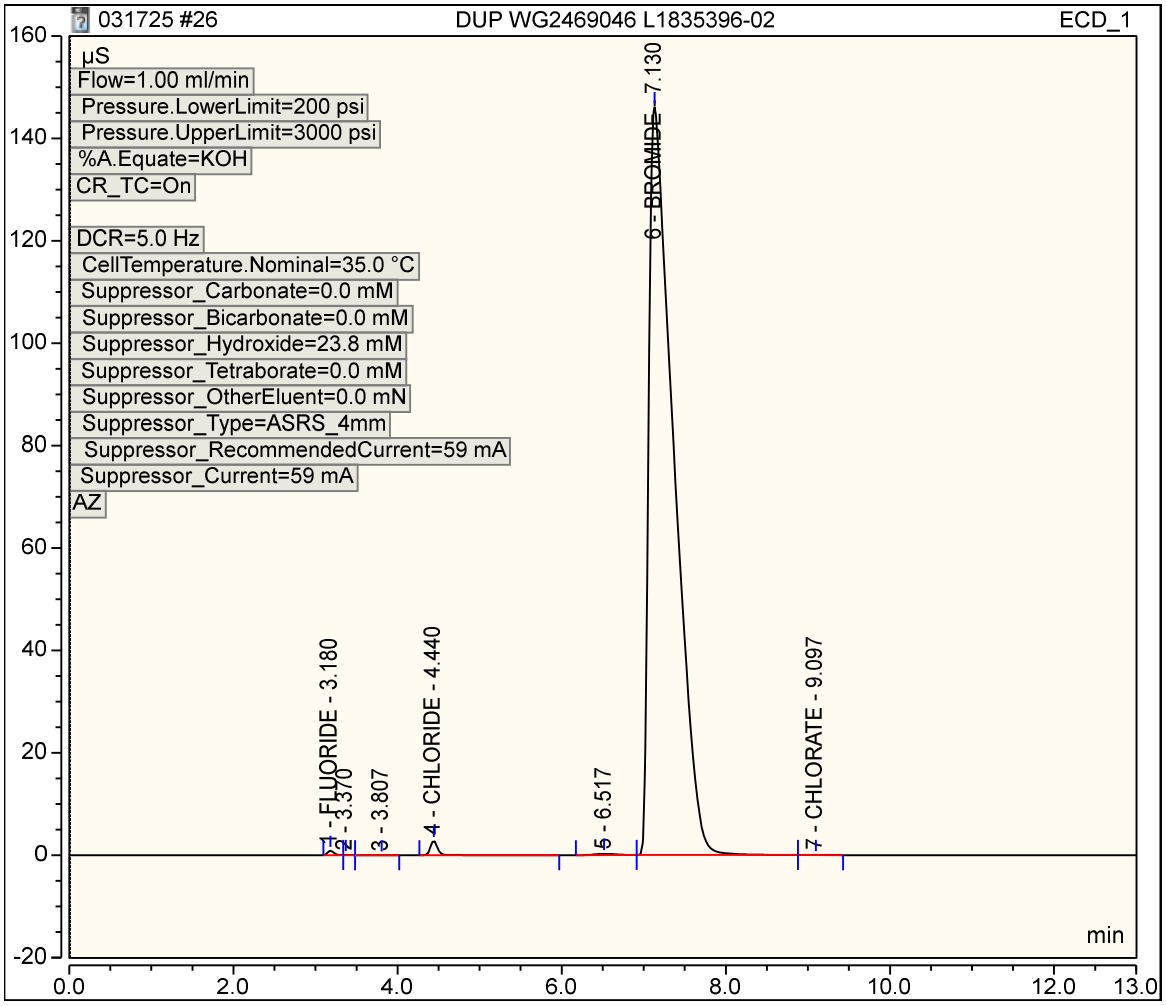
Sample Name:	**DUP WG2469046 L1835396-02**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 15:51**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.079	0.887	0.4415
4	4.44	CHLORIDE	BMB	0.288	2.823	2.4603
6	7.13	SULFATE	BMB^	51.321	146.048	579.6575
7	9.10	CHLORATE	BMB	0.007	0.031	0.2379
		TOTAL:		51.69	149.79	582.80



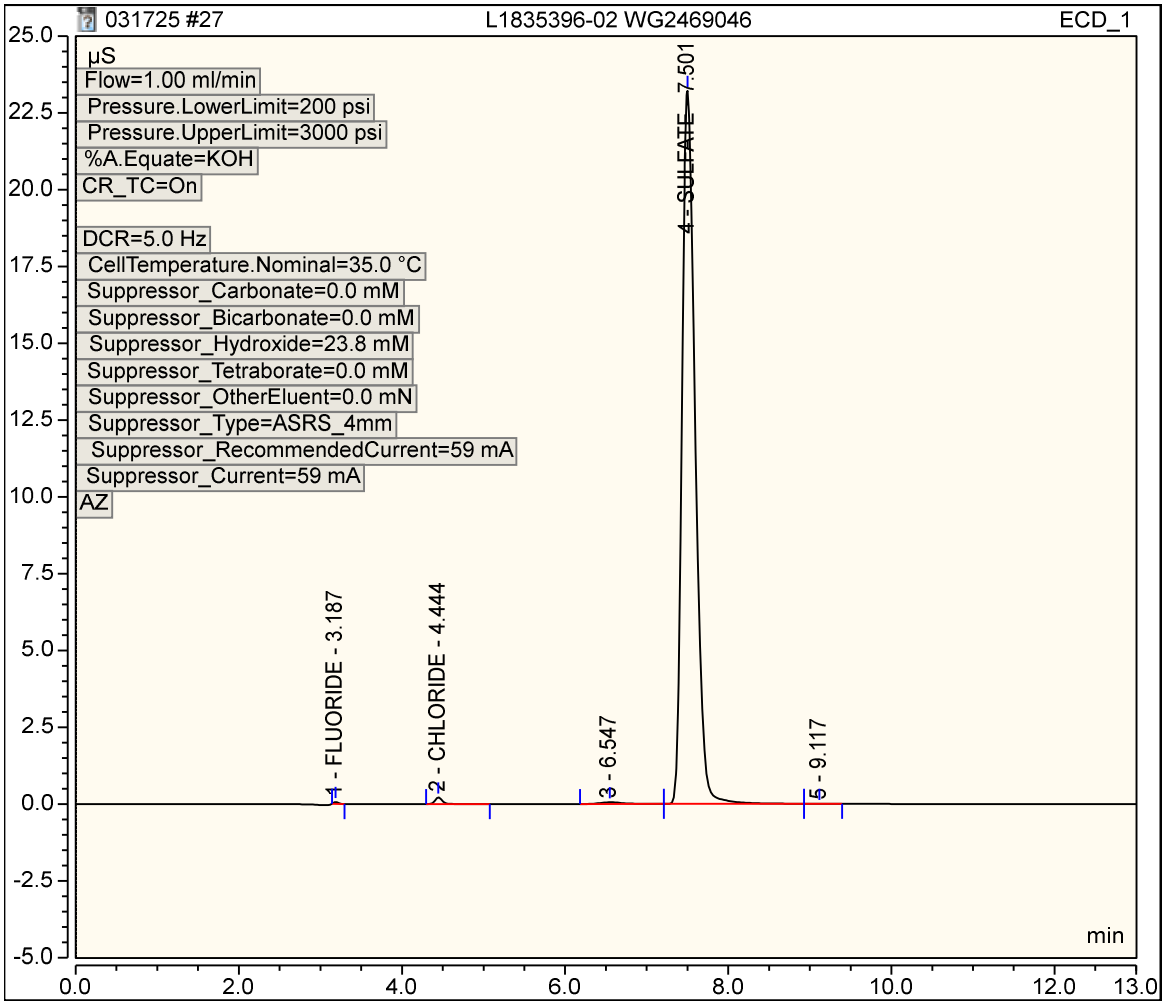
Sample Name:	**DUP WG2469046 L1835396-02**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 15:51**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.079	0.887	0.4415
4	4.44	CHLORIDE	BMB	0.288	2.823	2.4603
6	7.13	BROMIDE	BMB	51.321	146.048	984.5127
7	9.10	CHLORATE	BMB	0.007	0.031	0.2379
		TOTAL:		51.69	149.79	987.65



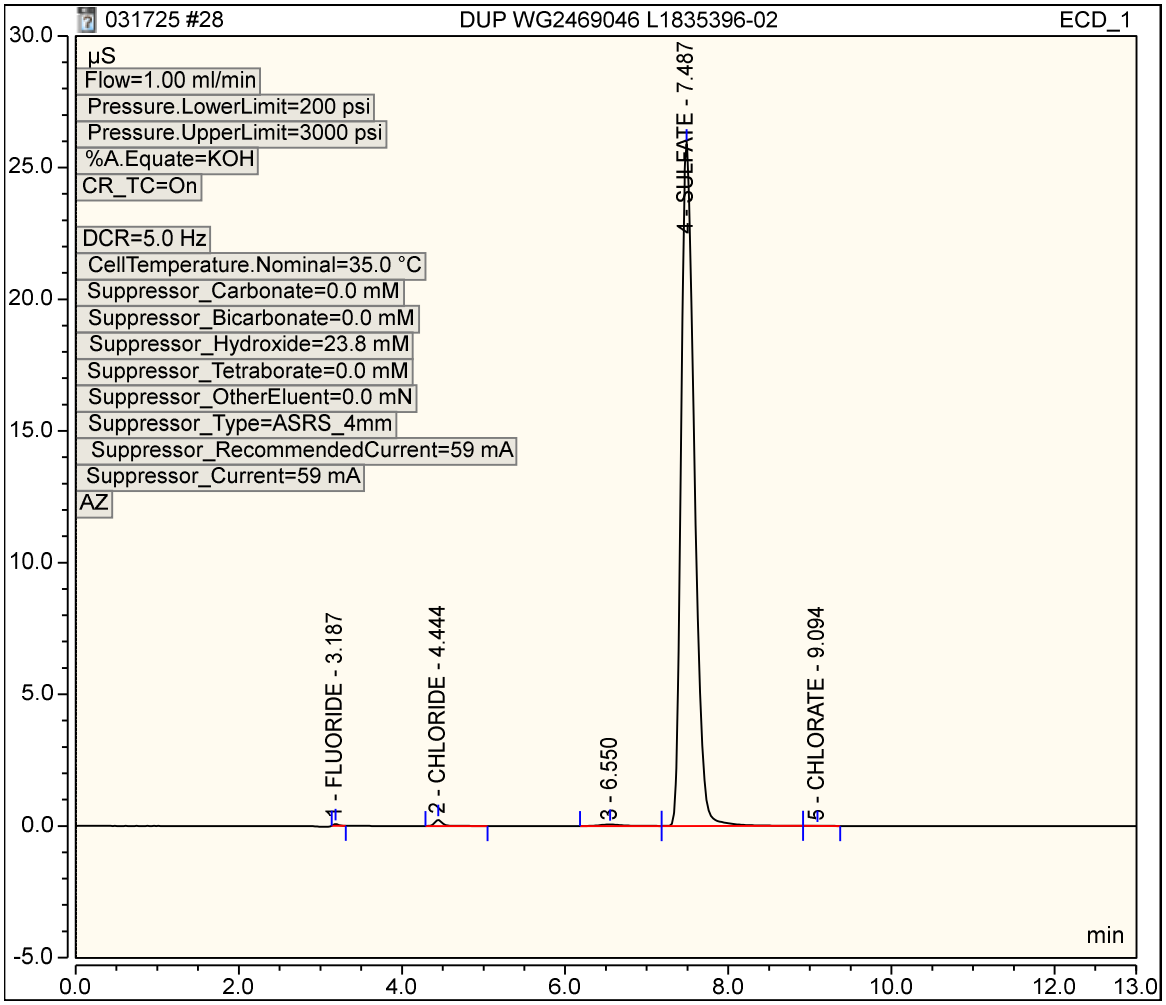
Sample Name:	**L1835396-02 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 16:07**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.005	0.065	0.5667
2	4.44	CHLORIDE	BMB	0.024	0.219	3.6452
4	7.50	SULFATE	BMB	4.341	23.210	492.2040
		TOTAL:		4.37	23.49	496.42



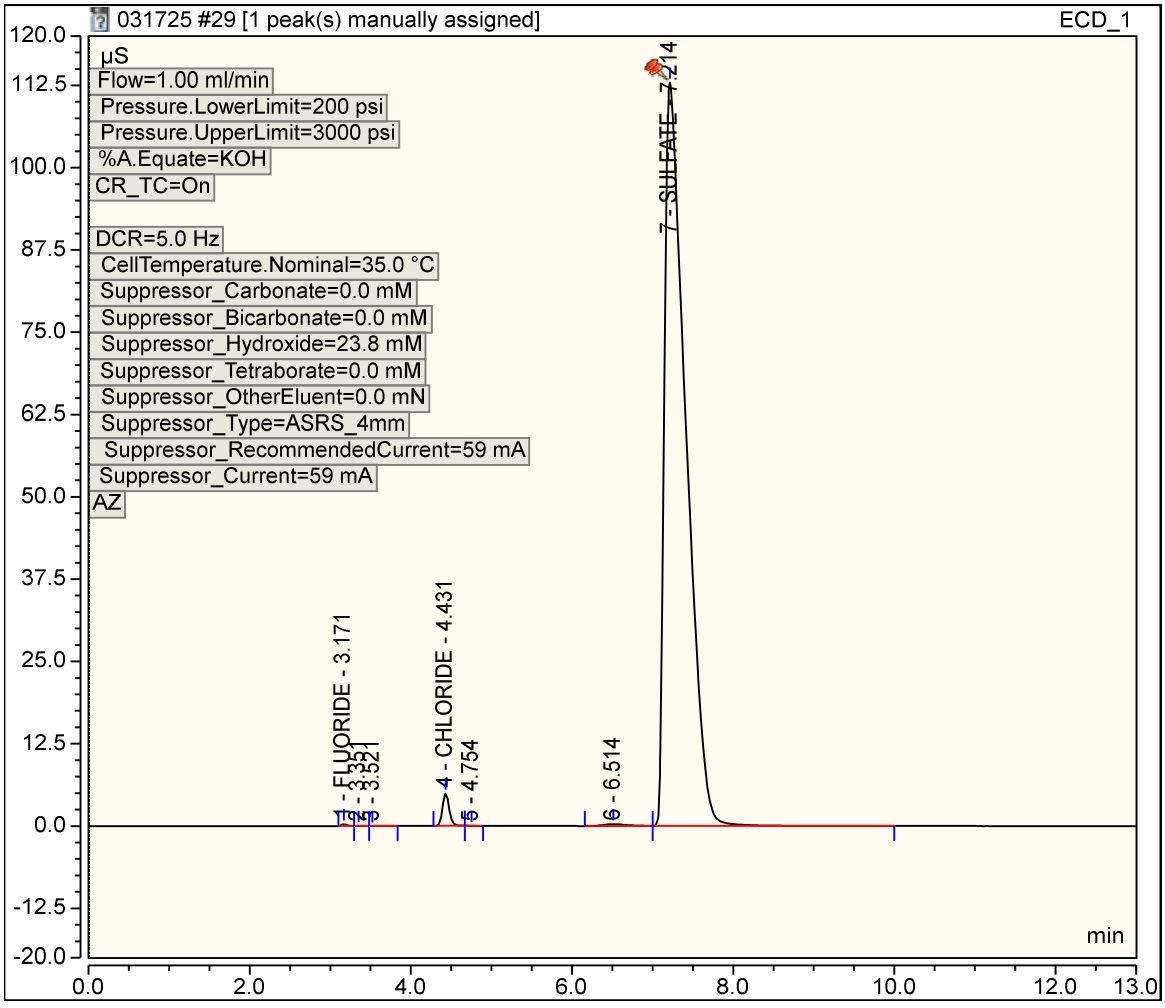
Sample Name:	**DUP WG2469046 L1835396-02**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 16:23**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.005	0.068	0.5764
2	4.44	CHLORIDE	BMB	0.025	0.232	3.7612
4	7.49	SULFATE	BMB	4.913	25.885	556.6994
5	9.09	CHLORATE	BMB	0.001	0.003	0.4975
		TOTAL:		4.94	26.19	561.53



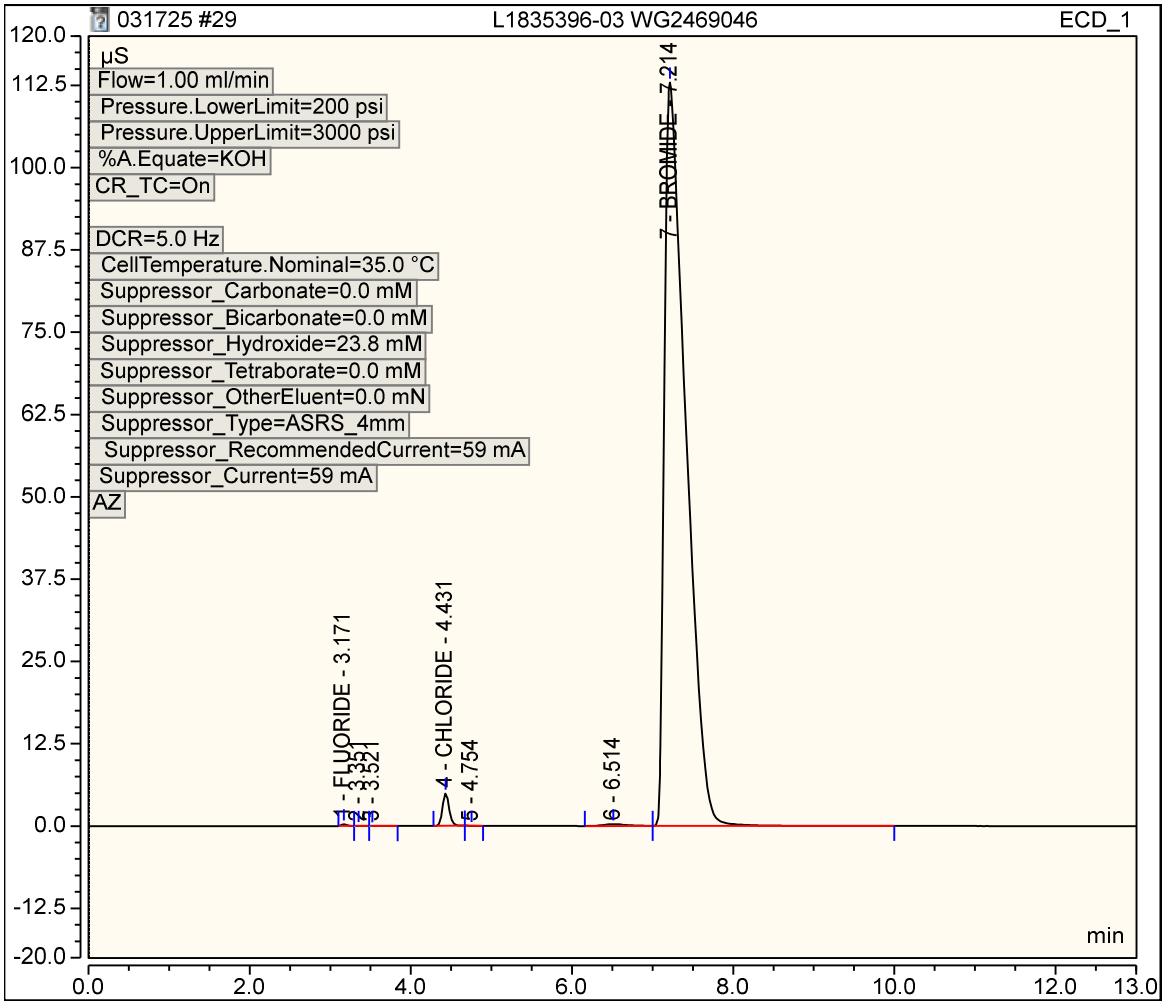
Sample Name:	**L1835396-03 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 16:38**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.17	FLUORIDE	BM	0.022	0.258	0.1459
4	4.43	CHLORIDE	BMB	0.480	4.943	3.9862
7	7.21	SULFATE	BMB^	34.659	112.915	391.5274
		TOTAL:		35.16	118.12	395.66



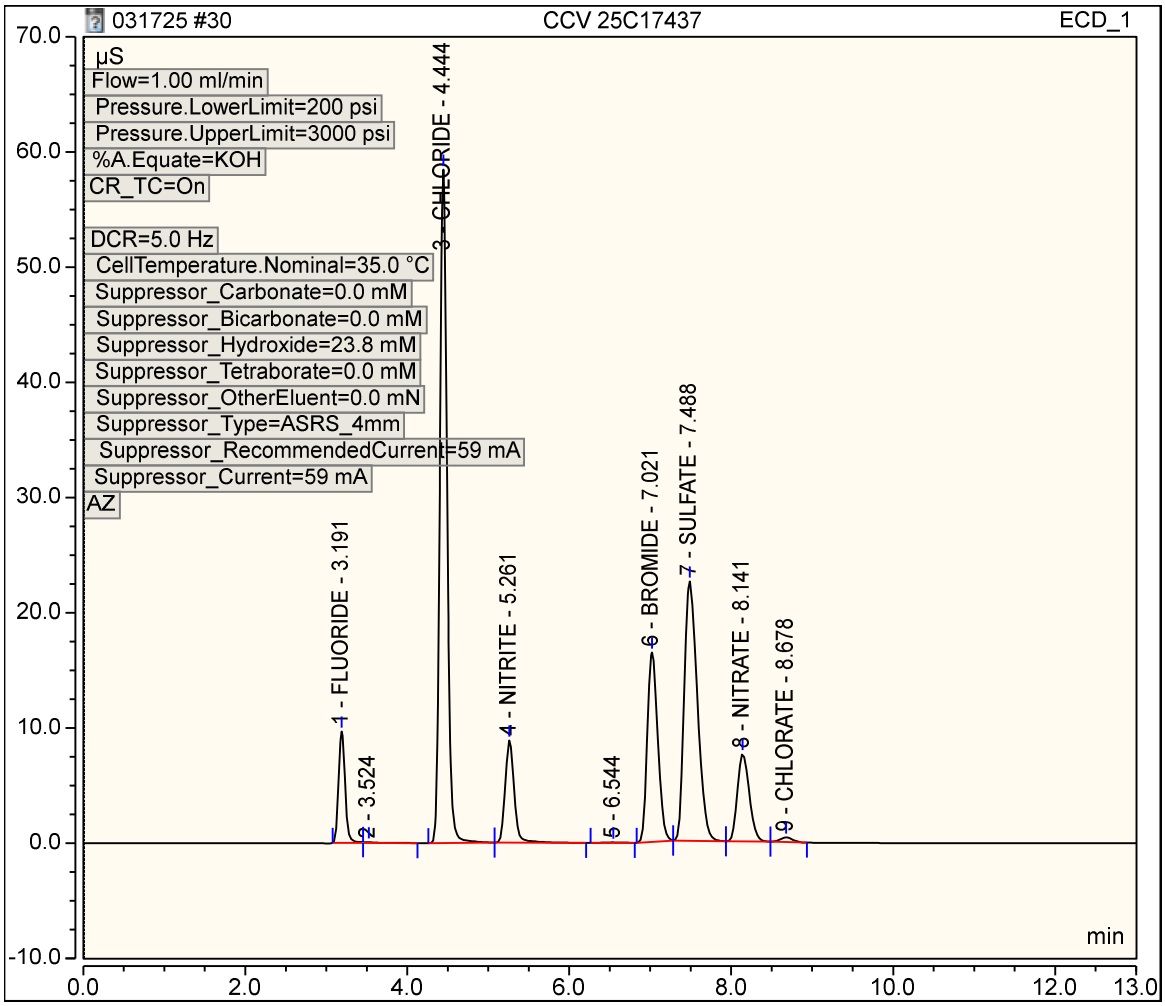
Sample Name:	**L1835396-03 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 16:38**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.17	FLUORIDE	BM	0.022	0.258	0.1459
4	4.43	CHLORIDE	BMB	0.480	4.943	3.9862
7	7.21	BROMIDE	BMB	34.659	112.915	665.0461
		TOTAL:		35.16	118.12	669.18



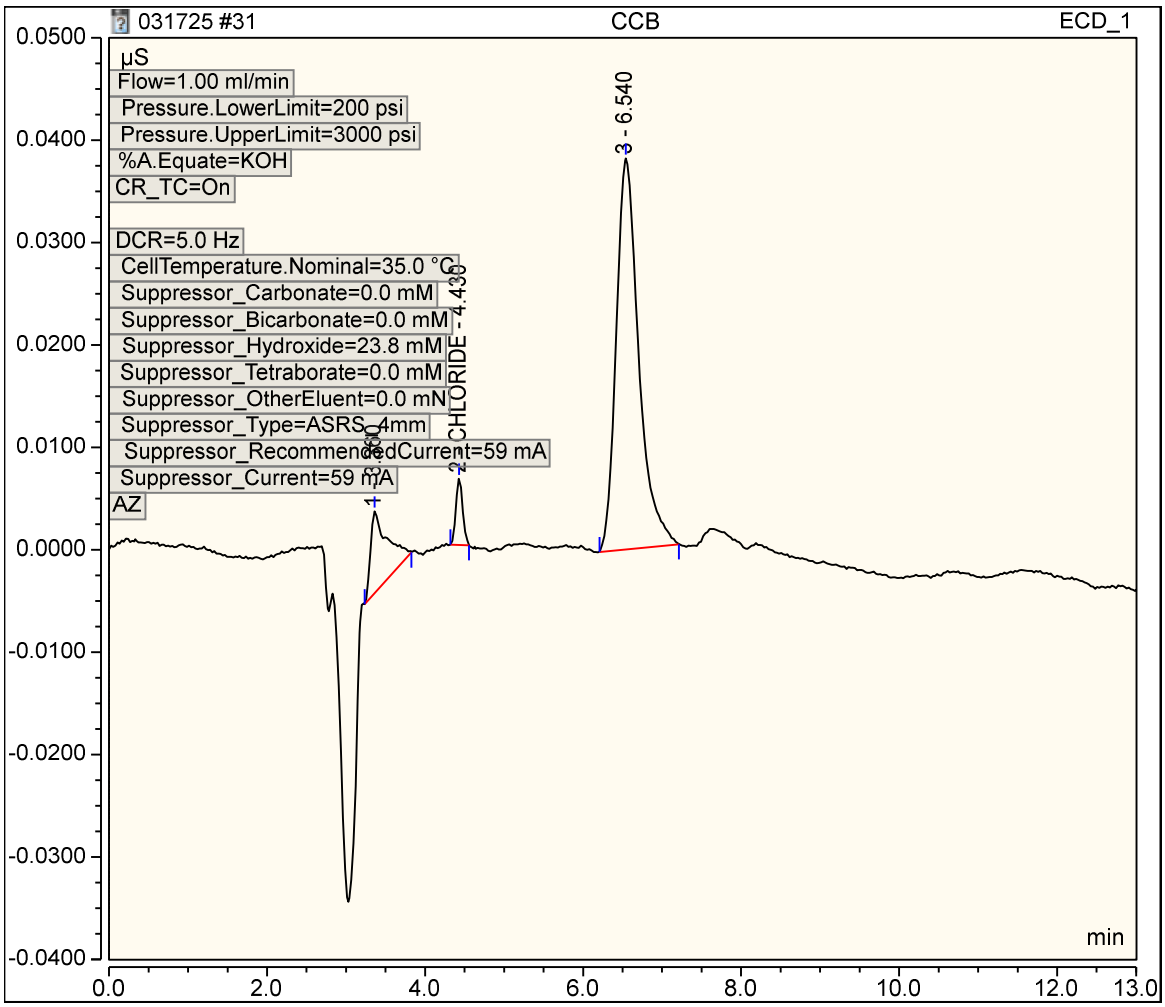
Sample Name:	**CCV 25C17437**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 16:54**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.902	9.684	4.6827
3	4.44	CHLORIDE	BMB	6.035	58.432	48.0997
4	5.26	NITRITE	BMB	1.150	8.876	4.7709
6	7.02	BROMIDE	BMB	2.460	16.436	47.7012
7	7.49	SULFATE	BMB	4.228	22.507	47.9439
8	8.14	NITRATE	BMB	1.298	7.598	4.6299
9	8.68	CHLORATE	BMB	0.071	0.404	2.3065
		TOTAL:		16.14	123.94	160.13



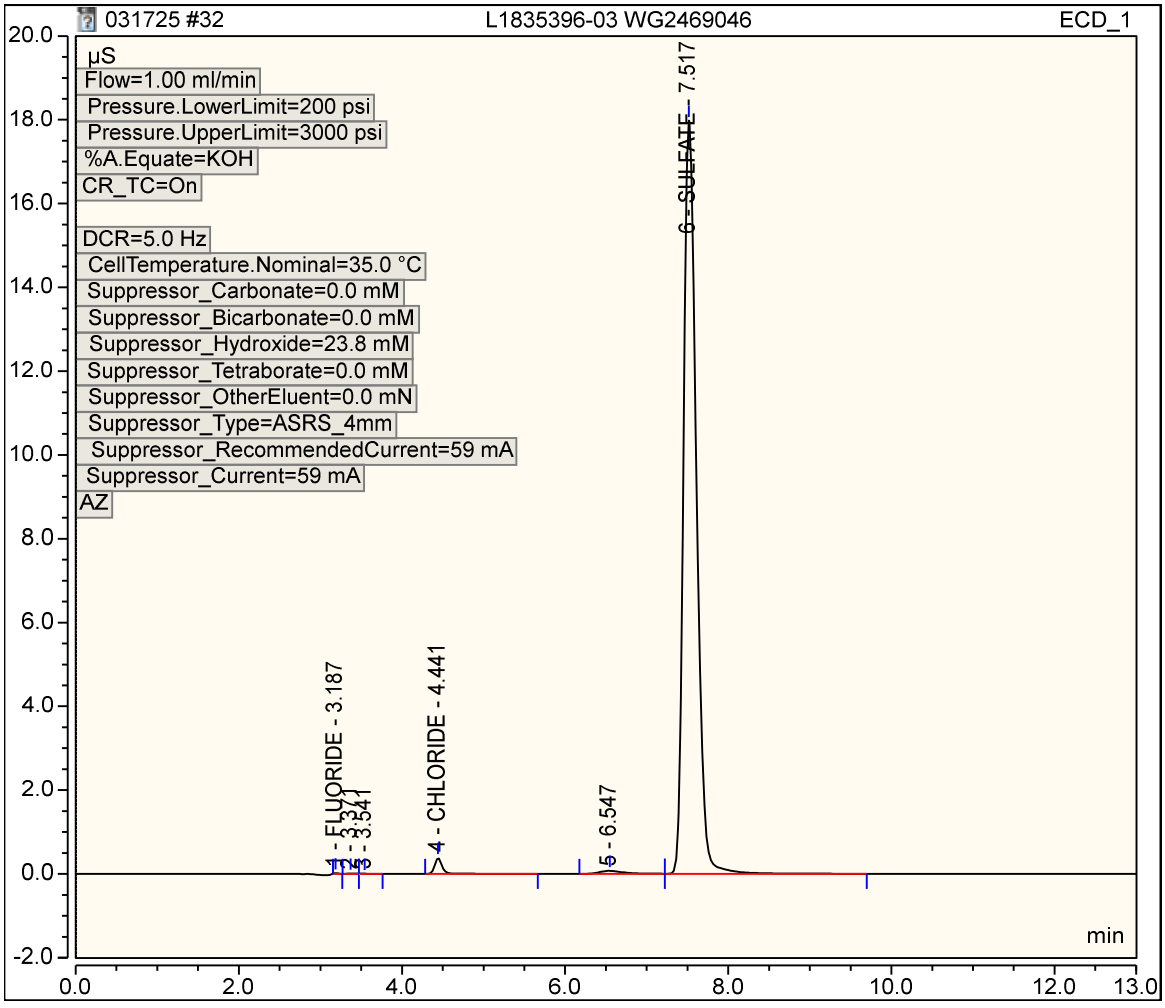
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 17:10**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
2	4.43	CHLORIDE	BMB	0.001	0.006	0.1824
		TOTAL:		0.00	0.01	0.18



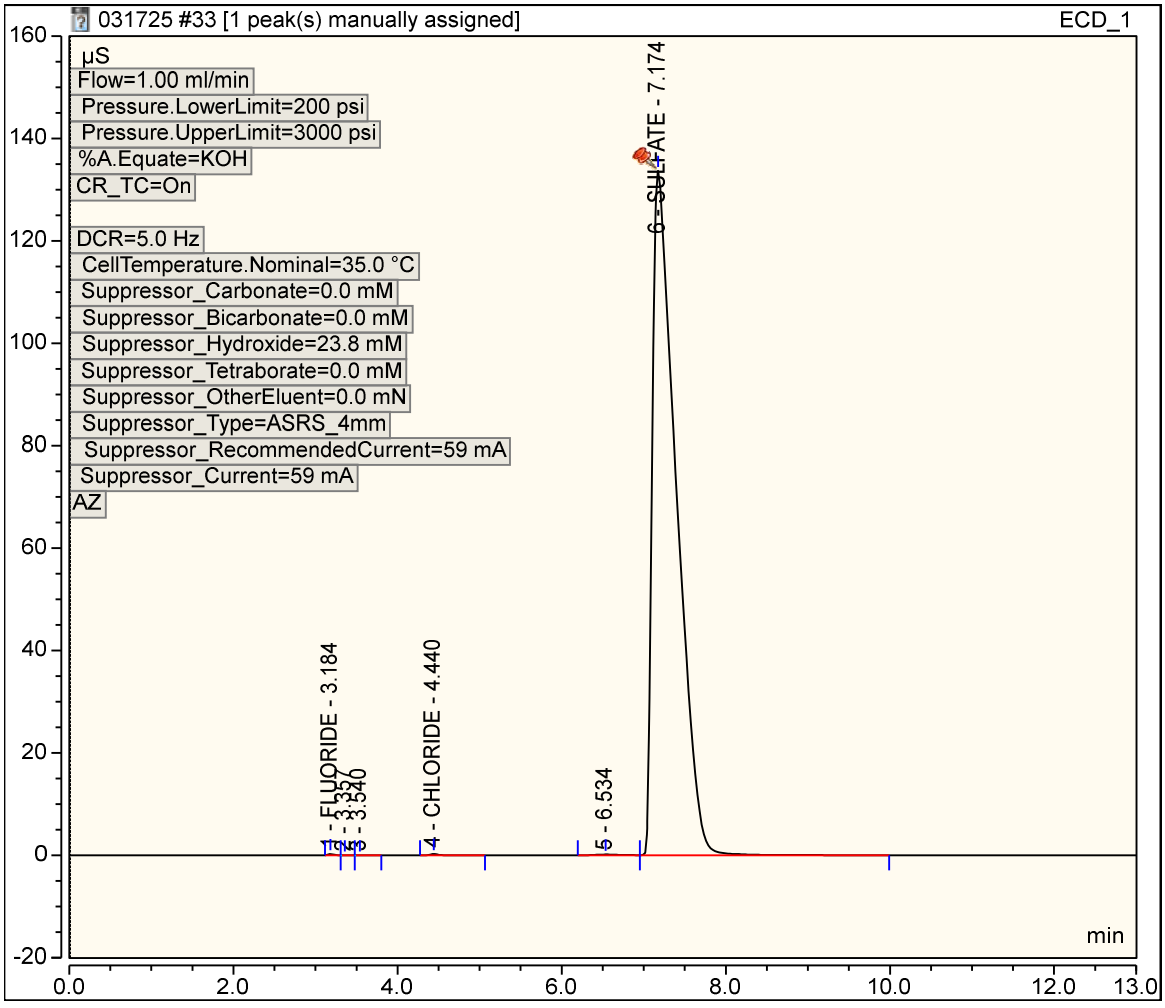
Sample Name:	**L1835396-03 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 17:26**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.001	0.015	0.3758
4	4.44	CHLORIDE	BMB	0.041	0.380	5.0622
6	7.52	SULFATE	BMB	3.283	17.974	372.6688
		TOTAL:		3.32	18.37	378.11



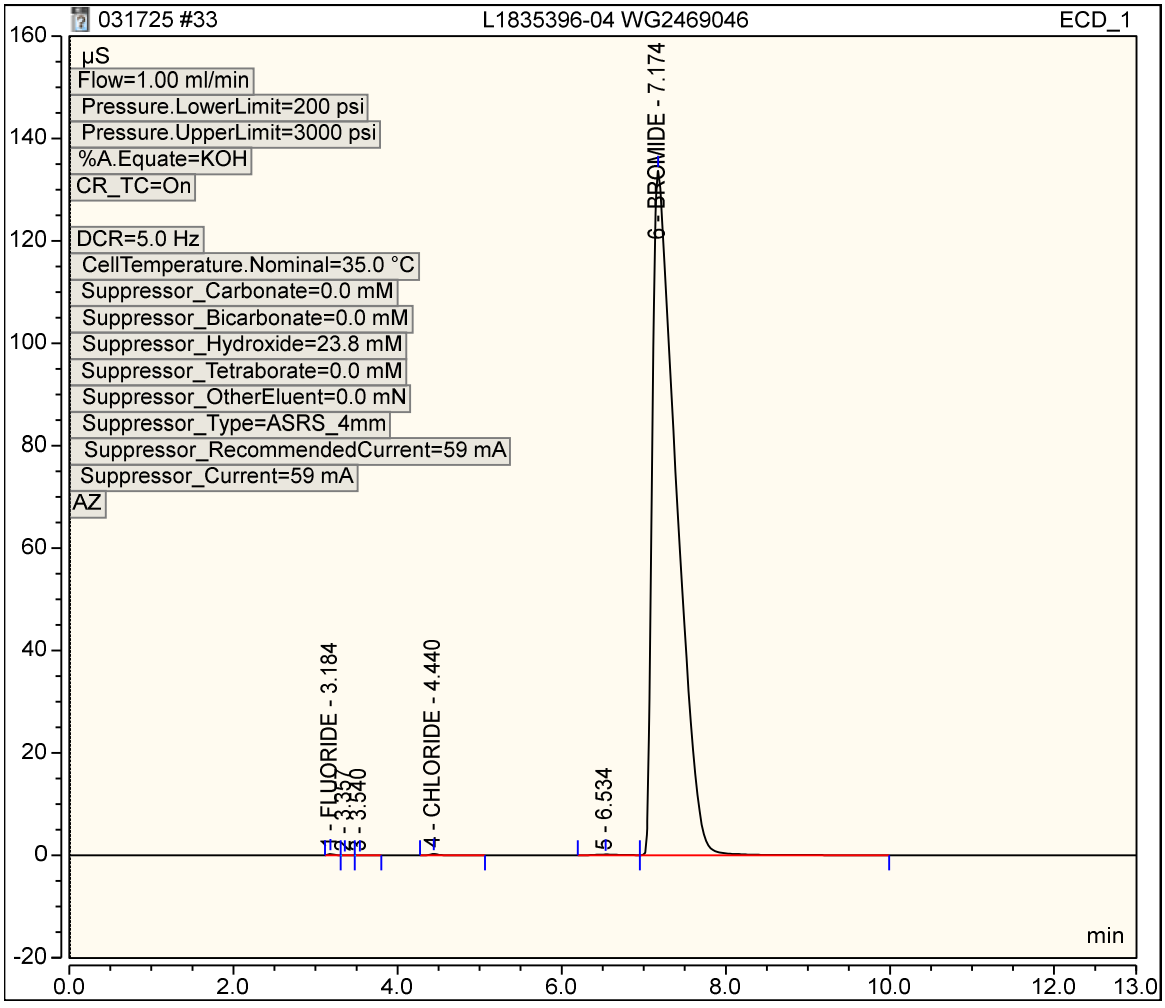
Sample Name:	**L1835396-04 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 17:42**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.020	0.238	0.1380
4	4.44	CHLORIDE	BMB	0.030	0.279	0.4136
6	7.17	SULFATE	BMB^	44.980	133.661	508.0600
		TOTAL:		45.03	134.18	508.61



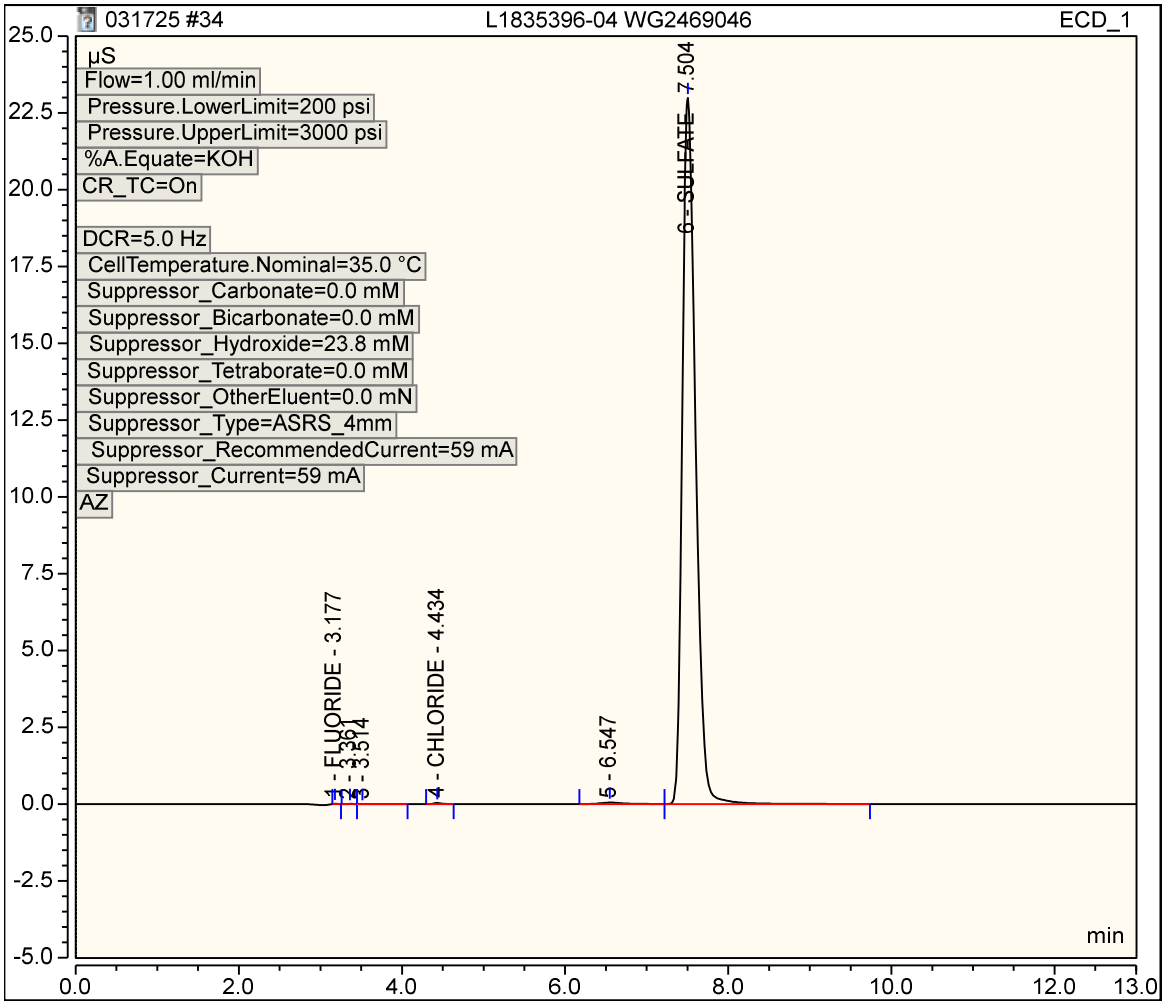
Sample Name:	**L1835396-04 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 17:42**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.020	0.238	0.1380
4	4.44	CHLORIDE	BMB	0.030	0.279	0.4136
6	7.17	BROMIDE	BMB	44.980	133.661	862.9318
		TOTAL:		45.03	134.18	863.48



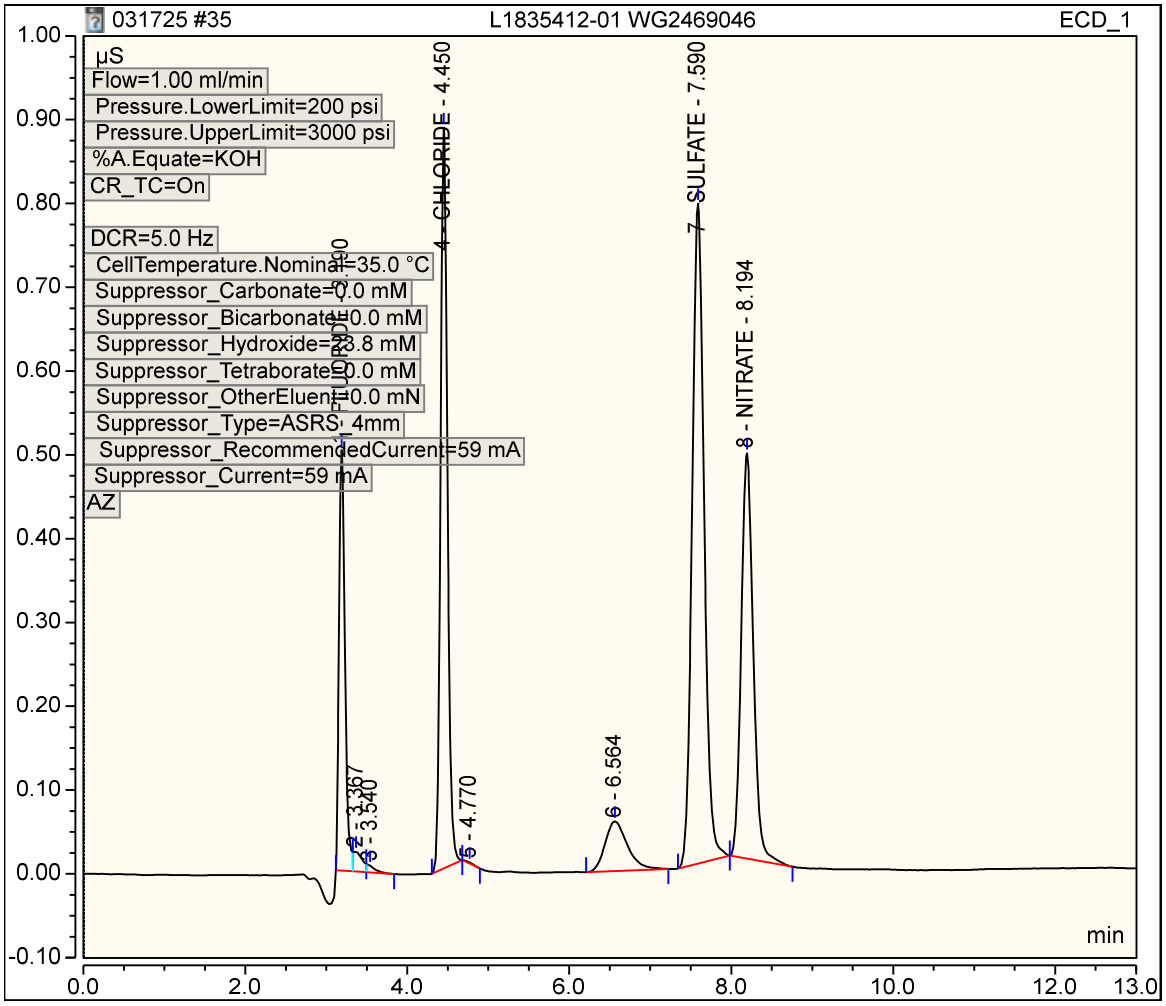
Sample Name:	**L1835396-04 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 17:58**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.001	0.012	0.3658
4	4.43	CHLORIDE	BMB	0.004	0.036	2.0653
6	7.50	SULFATE	BMB	4.309	22.982	488.5163
		TOTAL:		4.31	23.03	490.95



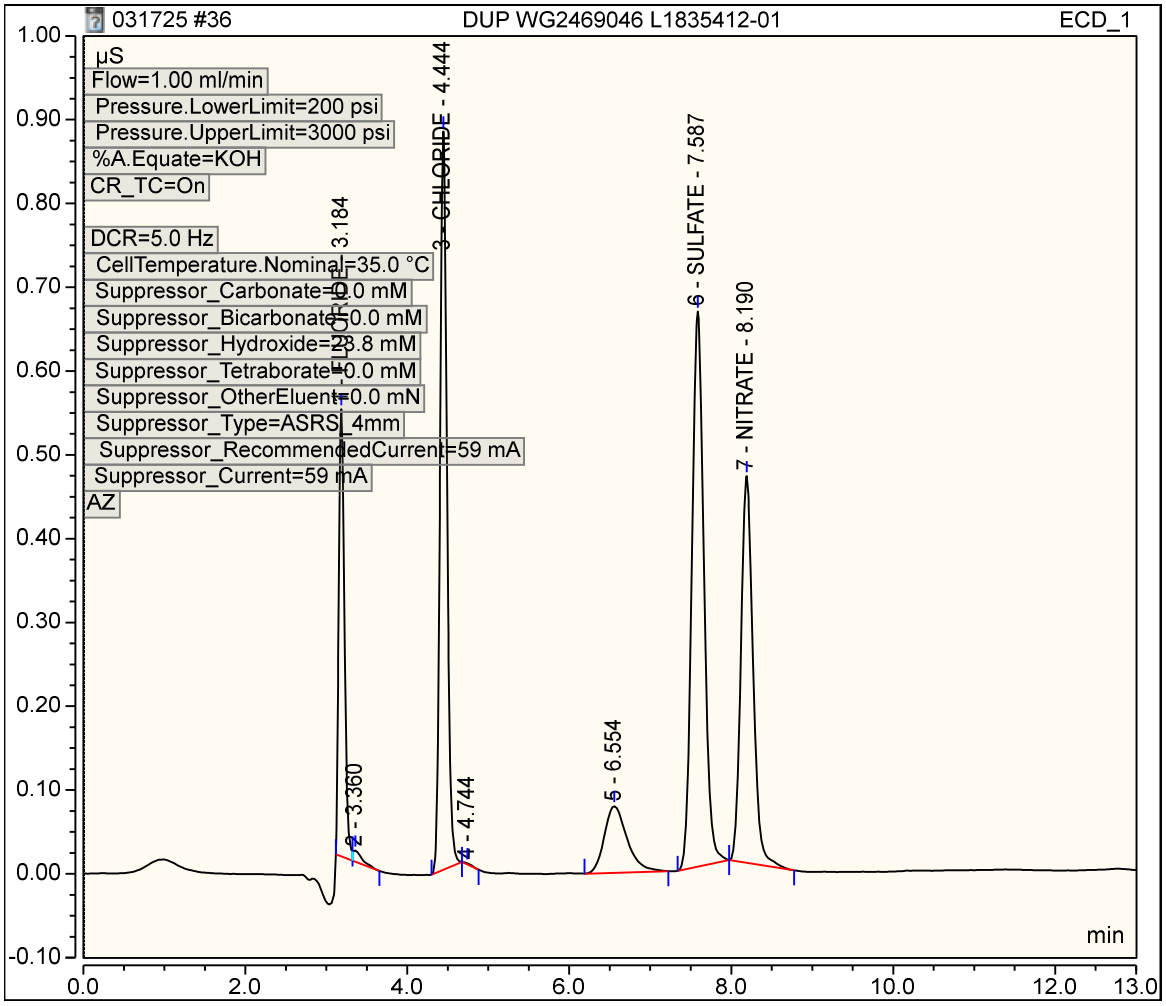
Sample Name:	**L1835412-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 18:14**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.042	0.502	0.2499
4	4.45	CHLORIDE	BMB	0.087	0.884	0.8683
7	7.59	SULFATE	BMB	0.135	0.788	1.7257
8	8.19	NITRATE	BMB	0.083	0.484	0.3564
		TOTAL:		0.35	2.66	3.20



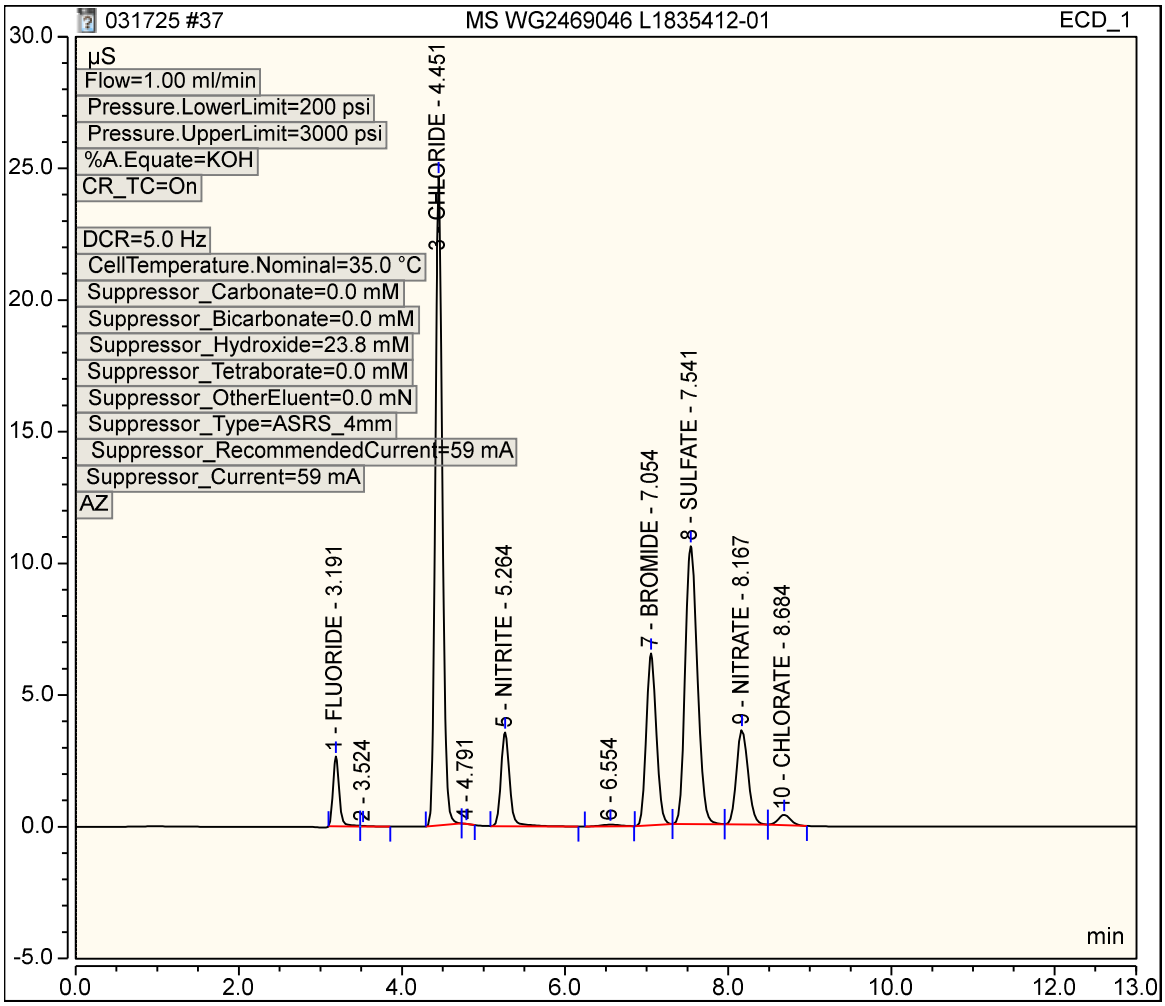
Sample Name:	**DUP WG2469046 L1835412-01**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 18:29**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.043	0.534	0.2543
3	4.44	CHLORIDE	BMB	0.087	0.881	0.8667
6	7.59	SULFATE	BMB	0.114	0.663	1.4905
7	8.19	NITRATE	BMB	0.080	0.462	0.3447
		TOTAL:		0.32	2.54	2.96



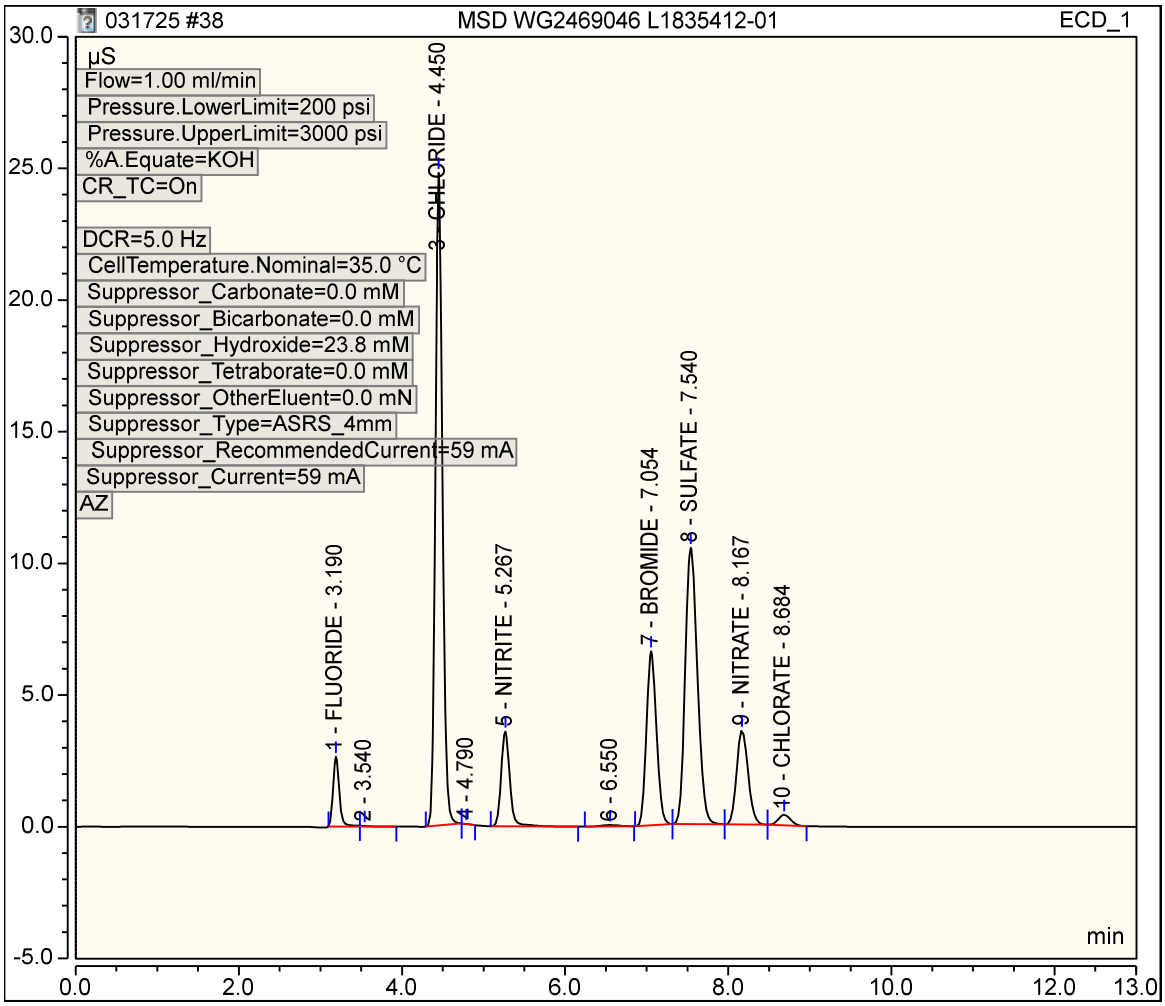
Sample Name:	**MS WG2469046 L1835412-01**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 18:45**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.231	2.648	1.2246
3	4.45	CHLORIDE	BMB	2.471	24.623	19.8002
5	5.26	NITRITE	BMB	0.438	3.556	1.8442
7	7.05	BROMIDE	BMB	0.930	6.527	18.3611
8	7.54	SULFATE	BMB	1.830	10.553	20.8613
9	8.17	NITRATE	BMB	0.590	3.588	2.1402
10	8.68	CHLORATE	BMB	0.069	0.389	2.2449
		TOTAL:		6.56	51.89	66.48



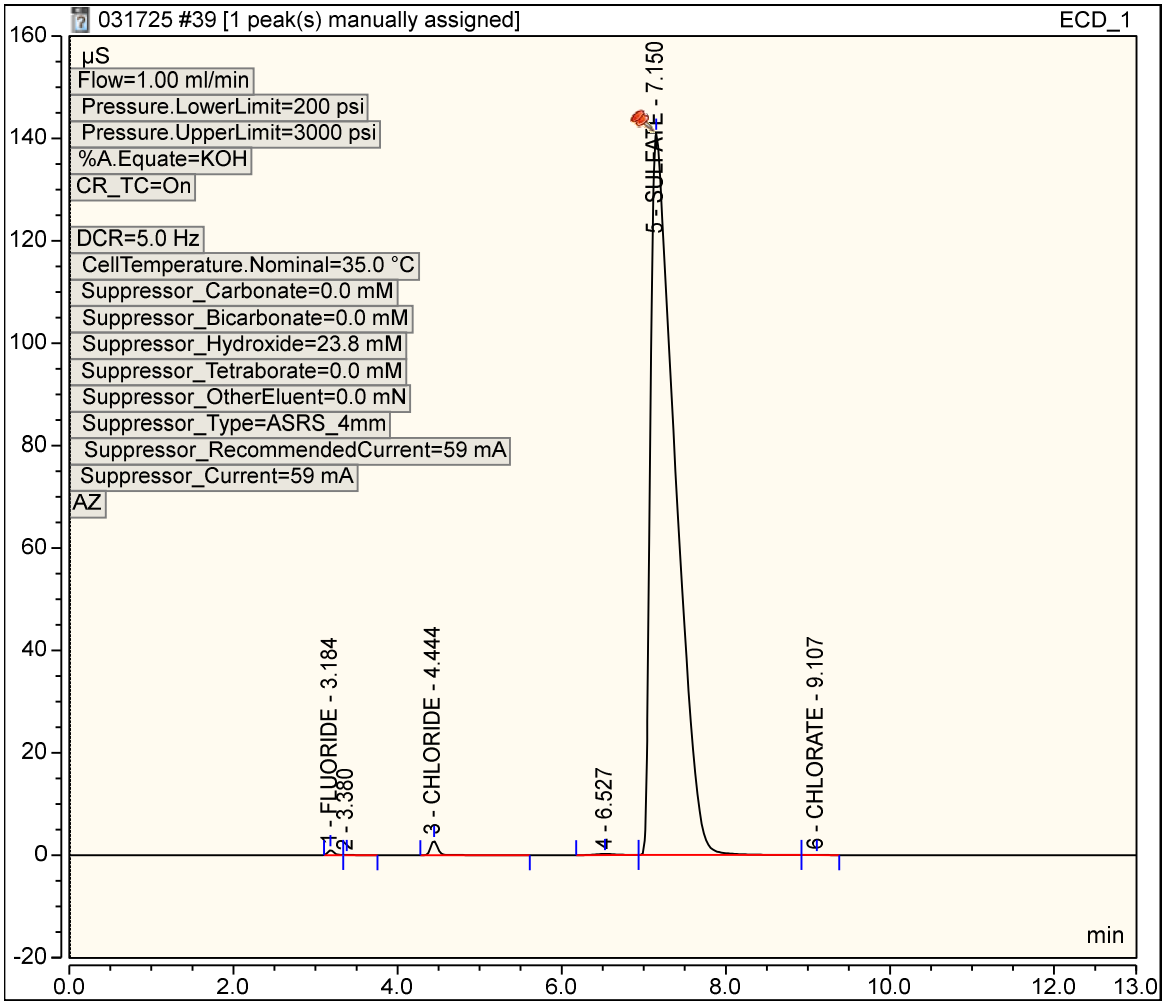
Sample Name:	**MSD WG2469046 L1835412-01**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 19:01**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.232	2.652	1.2297
3	4.45	CHLORIDE	BMB	2.488	24.791	19.9319
5	5.27	NITRITE	BMB	0.443	3.596	1.8656
7	7.05	BROMIDE	BMB	0.942	6.616	18.5934
8	7.54	SULFATE	BMB	1.815	10.499	20.6958
9	8.17	NITRATE	BMB	0.587	3.575	2.1284
10	8.68	CHLORATE	BMB	0.070	0.396	2.2847
		TOTAL:		6.58	52.13	66.73



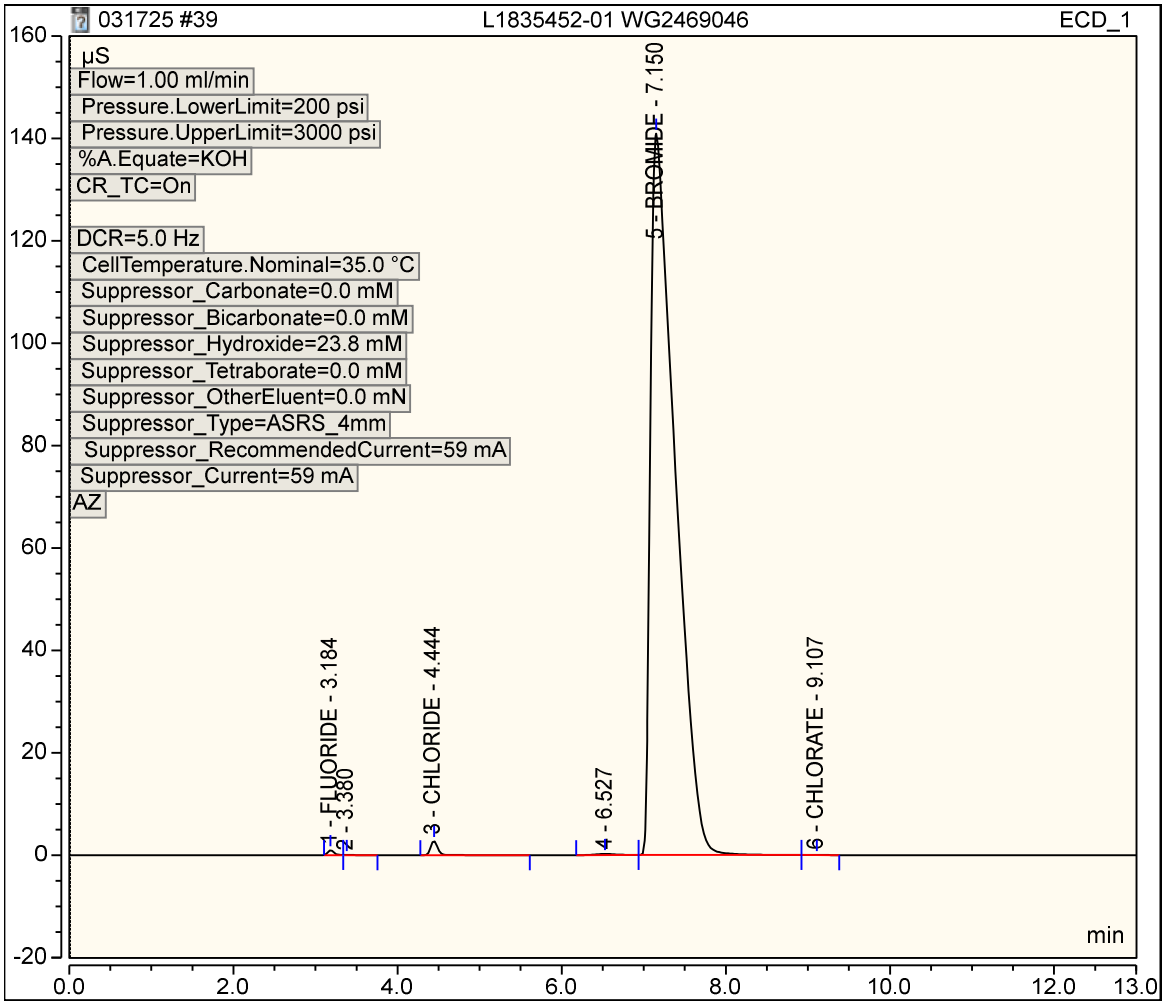
Sample Name:	**L1835452-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 19:17**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.086	0.985	0.4746
3	4.44	CHLORIDE	BMB	0.284	2.802	2.4326
5	7.15	SULFATE	BMB^	48.754	140.880	550.6803
6	9.11	CHLORATE	BMB	0.004	0.018	0.1442
		TOTAL:		49.13	144.68	553.73



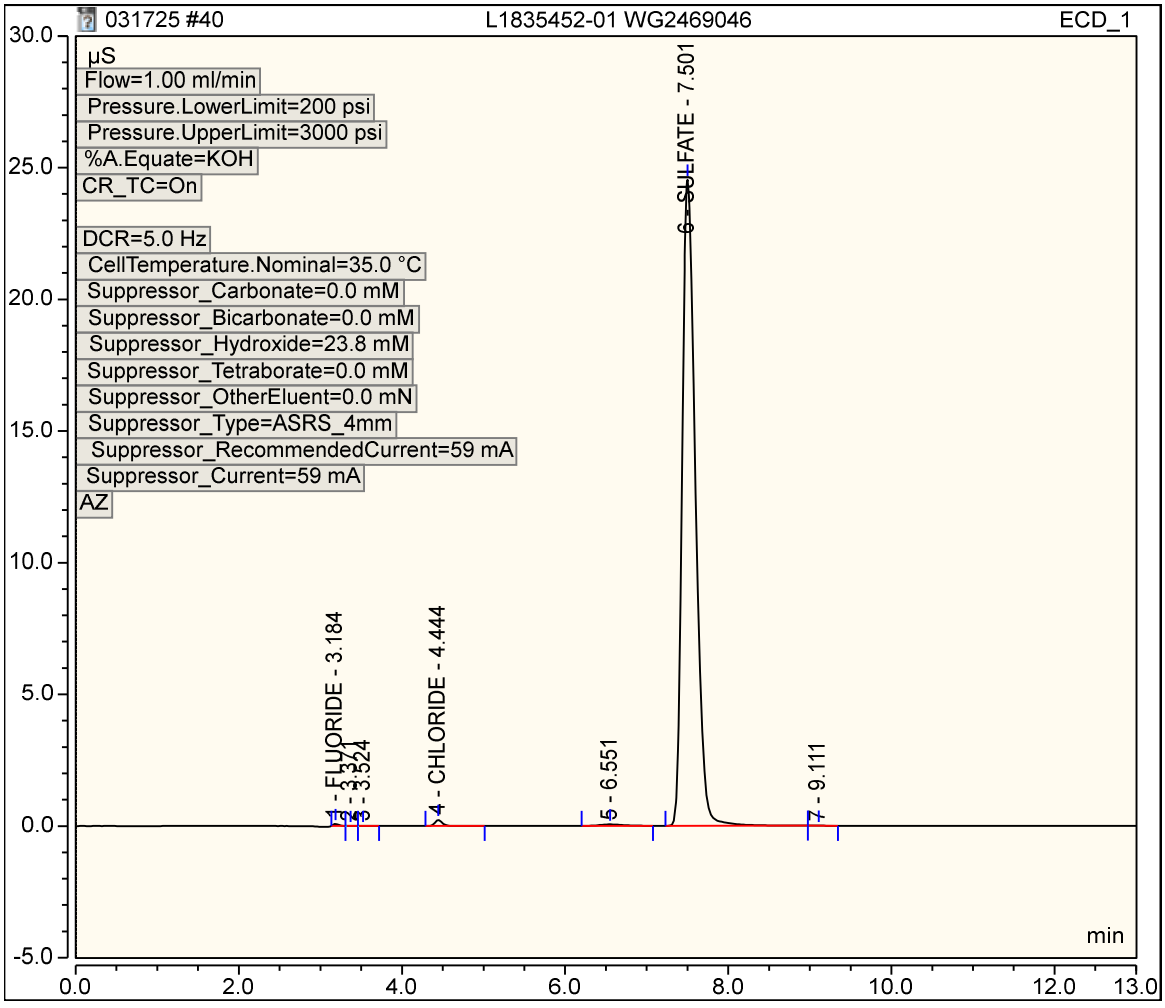
Sample Name:	**L1835452-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 19:17**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.086	0.985	0.4746
3	4.44	CHLORIDE	BMB	0.284	2.802	2.4326
5	7.15	BROMIDE	BMB	48.754	140.880	935.3060
6	9.11	CHLORATE	BMB	0.004	0.018	0.1442
		TOTAL:		49.13	144.68	938.36



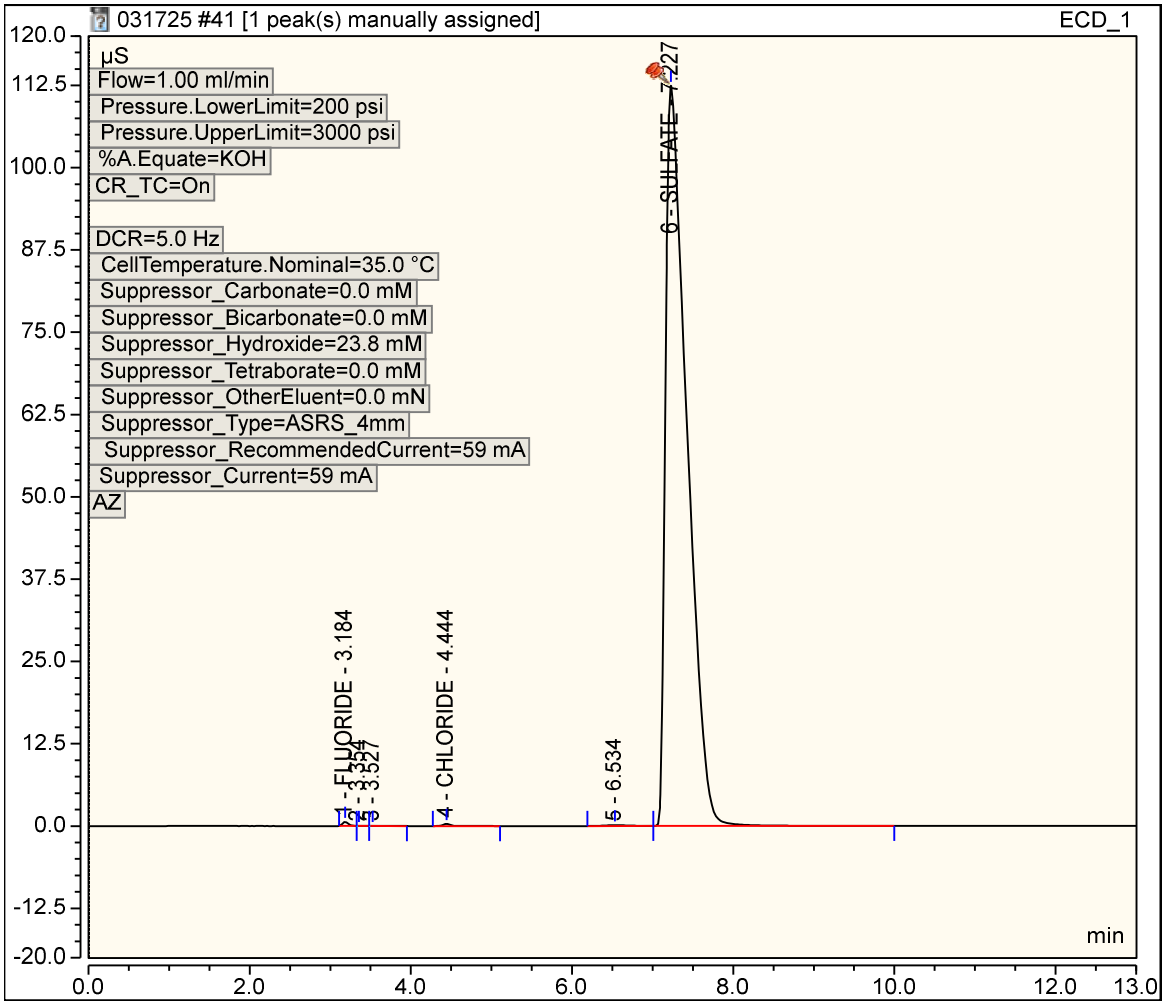
Sample Name:	**L1835452-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 19:33**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.006	0.077	0.6207
4	4.44	CHLORIDE	BMB	0.025	0.232	3.7471
6	7.50	SULFATE	BMB	4.625	24.535	524.2184
		TOTAL:		4.66	24.84	528.59



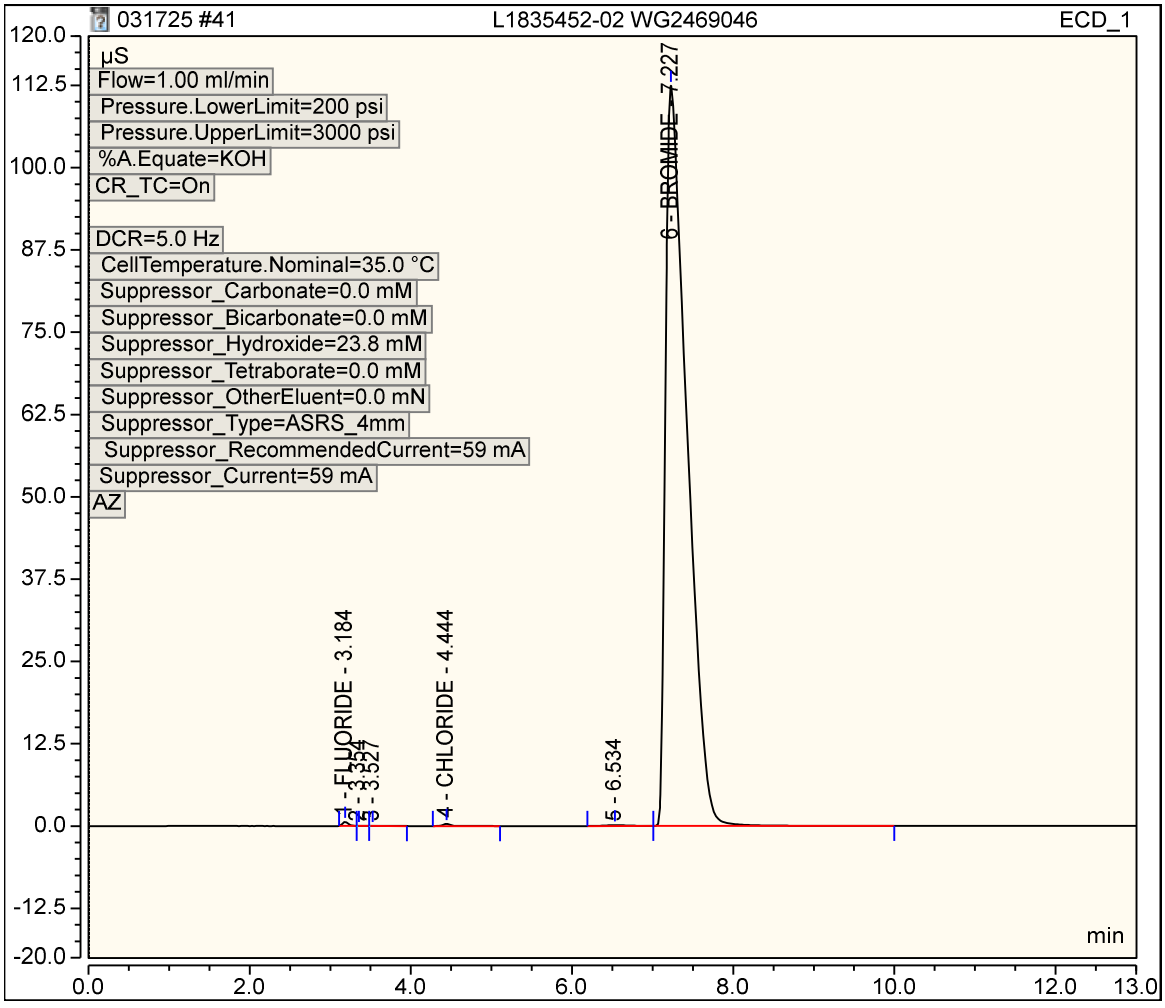
Sample Name:	**L1835452-02 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 19:49**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.055	0.640	0.3184
4	4.44	CHLORIDE	BMB	0.035	0.333	0.4573
6	7.23	SULFATE	BMB^	34.510	112.424	389.8471
		TOTAL:		34.60	113.40	390.62



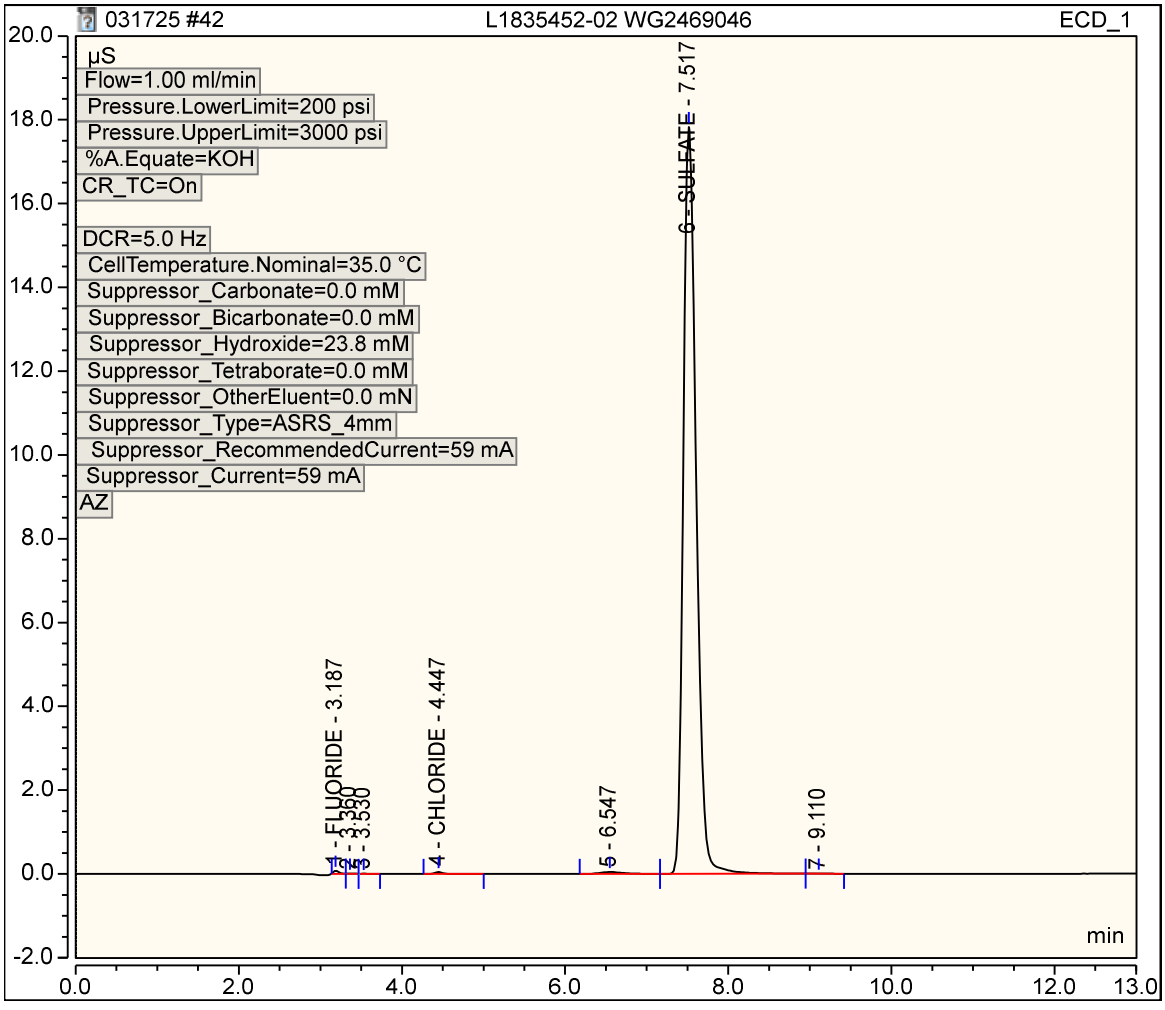
Sample Name:	**L1835452-02 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 19:49**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.055	0.640	0.3184
4	4.44	CHLORIDE	BMB	0.035	0.333	0.4573
6	7.23	BROMIDE	BMB	34.510	112.424	662.1927
		TOTAL:		34.60	113.40	662.97



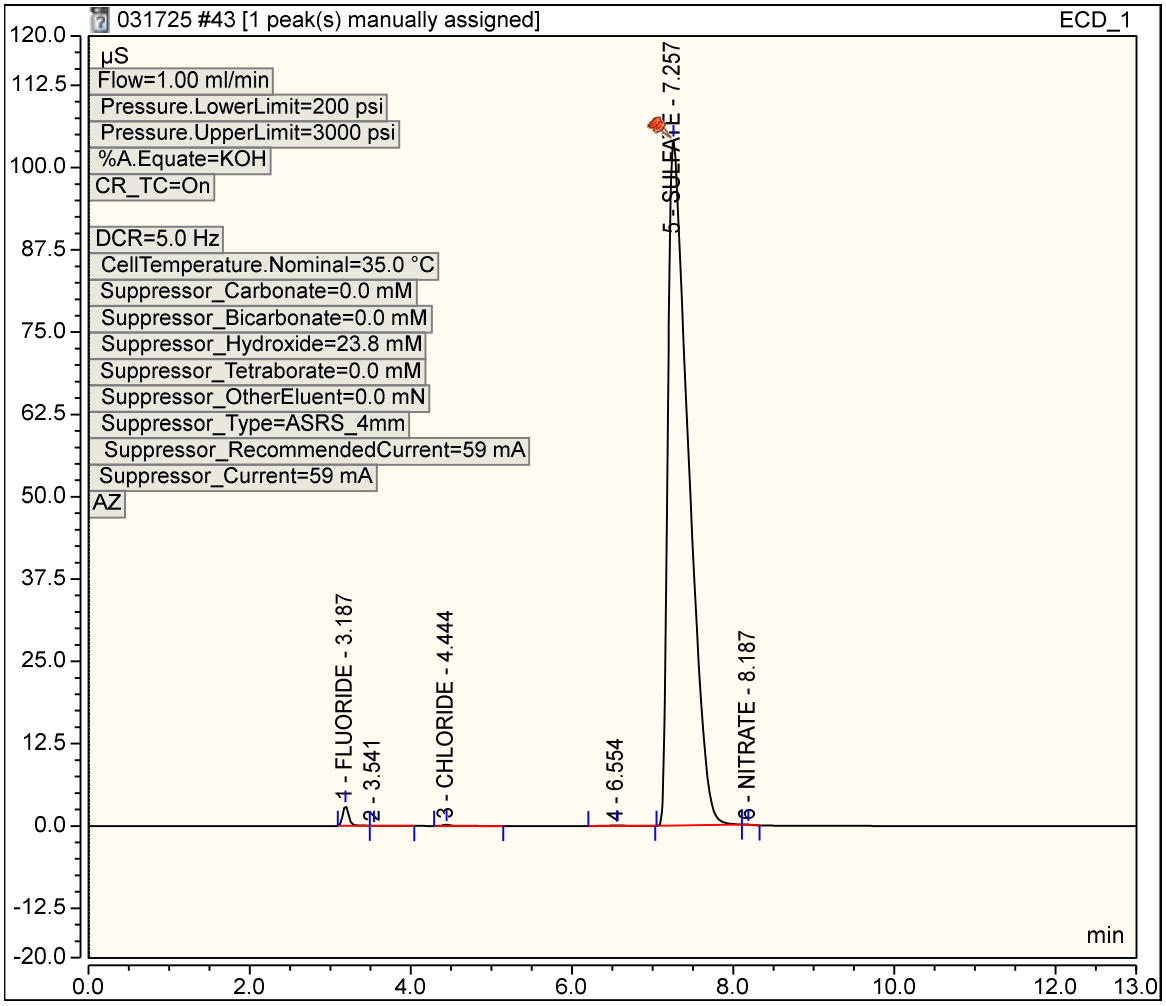
Sample Name:	**L1835452-02 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 20:05**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.006	0.075	0.6213
4	4.45	CHLORIDE	BMB	0.005	0.048	2.2057
6	7.52	SULFATE	BMB	3.244	17.828	368.2862
		TOTAL:		3.25	17.95	371.11



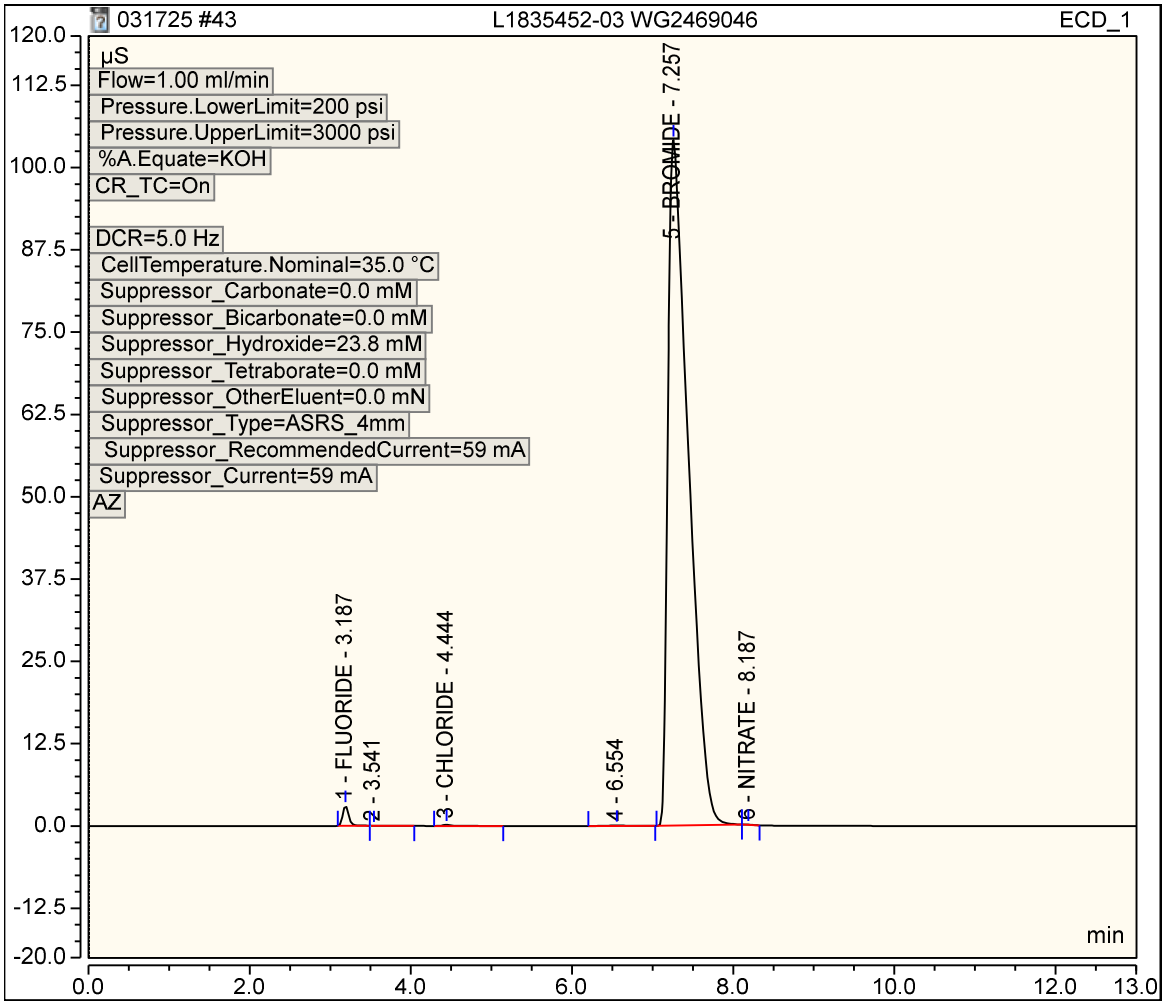
Sample Name:	**L1835452-03 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 20:20**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.275	3.061	1.4499
3	4.44	CHLORIDE	BMB	0.021	0.191	0.3427
5	7.26	SULFATE	BMB^	30.690	104.114	346.7236
6	8.19	NITRATE	BMB	0.003	0.030	0.0756
		TOTAL:		30.99	107.40	348.59



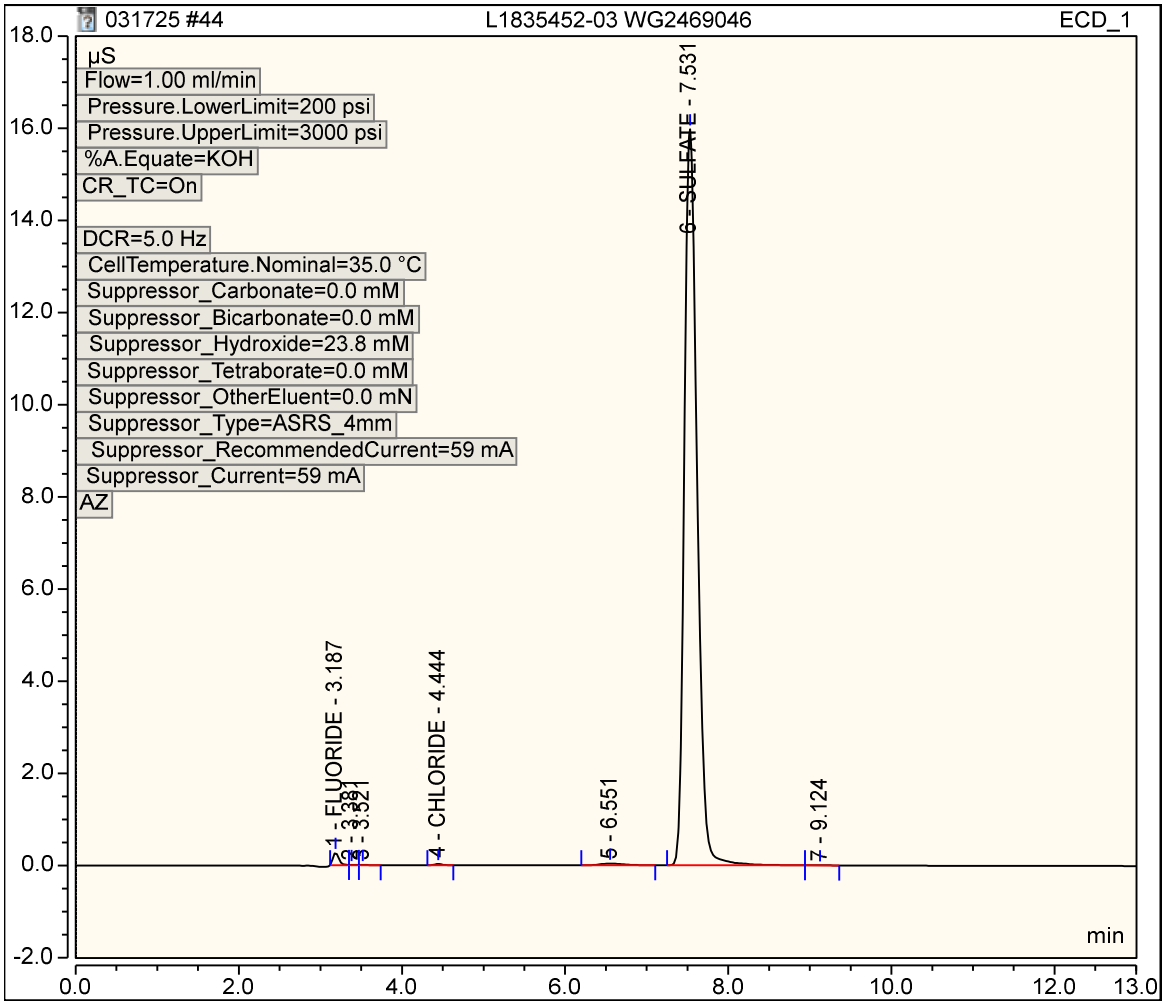
Sample Name:	**L1835452-03 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 20:20**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.275	3.061	1.4499
3	4.44	CHLORIDE	BMB	0.021	0.191	0.3427
5	7.26	BROMIDE	BMB	30.690	104.114	588.9642
6	8.19	NITRATE	BMB	0.003	0.030	0.0756
		TOTAL:		30.99	107.40	590.83



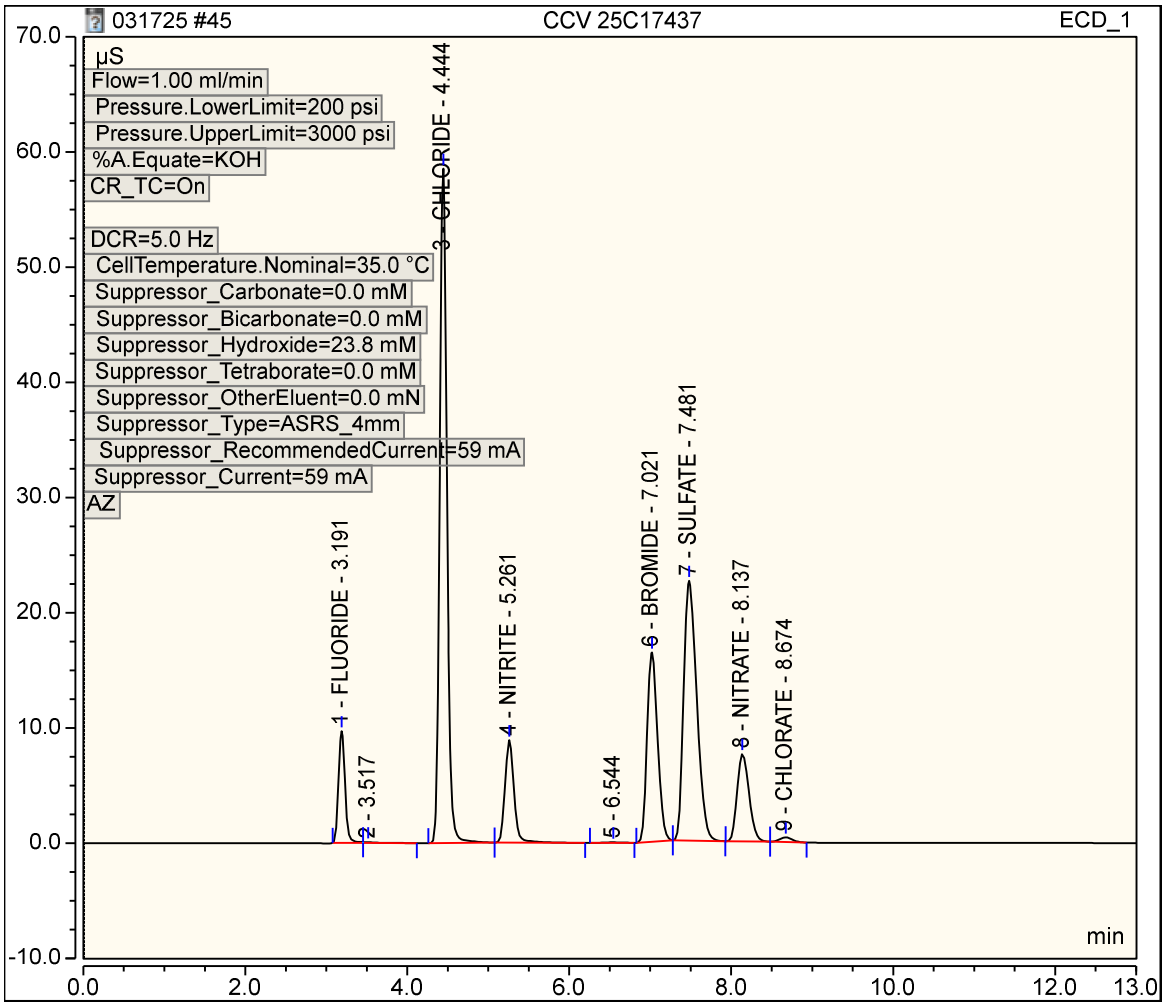
Sample Name:	**L1835452-03 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 20:36**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.023	0.270	1.4983
4	4.44	CHLORIDE	BMB	0.003	0.029	2.0079
6	7.53	SULFATE	BMB	2.887	15.970	327.9605
		TOTAL:		2.91	16.27	331.47



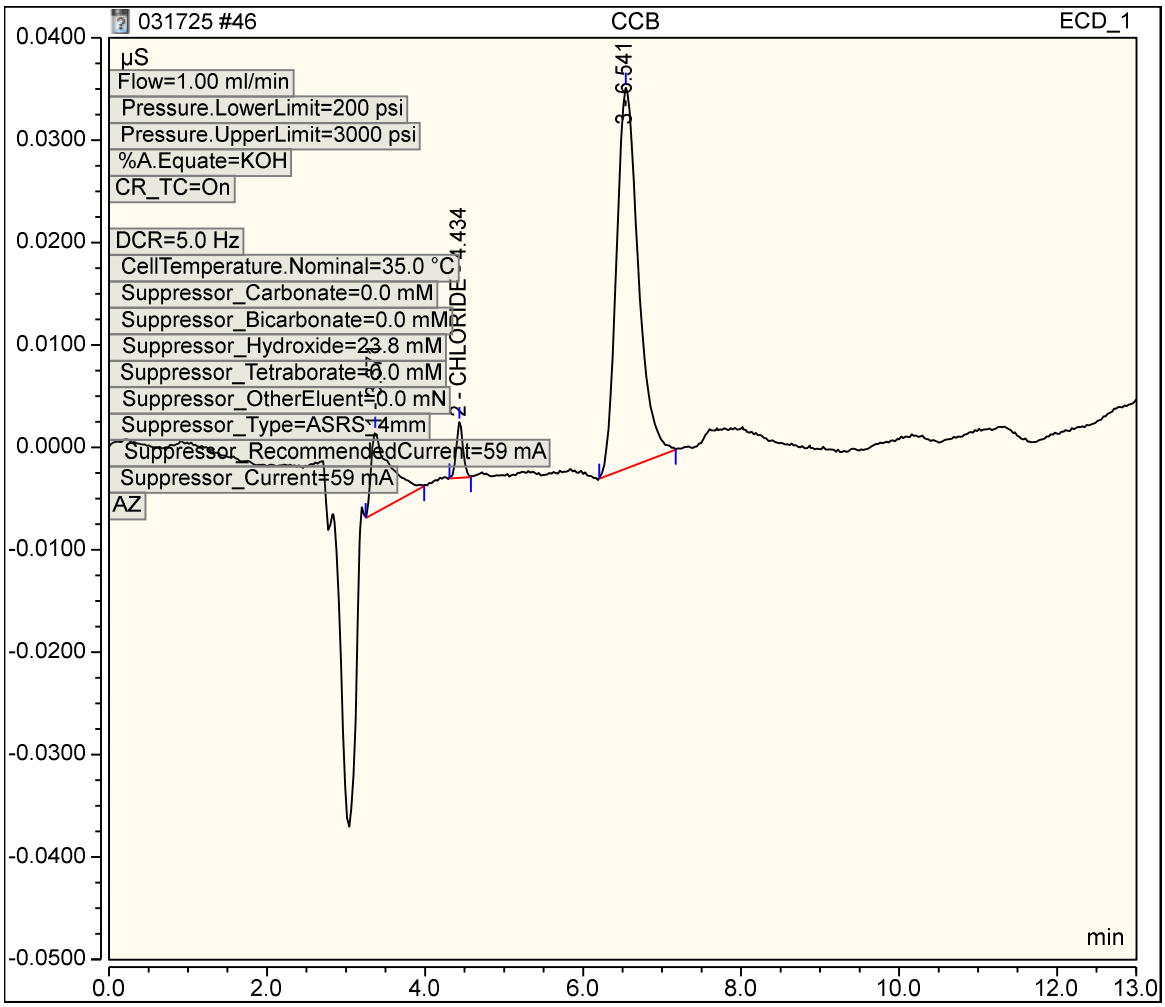
Sample Name:	**CCV 25C17437**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 20:52**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.904	9.709	4.6966
3	4.44	CHLORIDE	BMB	6.045	58.517	48.1724
4	5.26	NITRITE	BMB	1.150	8.885	4.7698
6	7.02	BROMIDE	BMB	2.459	16.441	47.6717
7	7.48	SULFATE	BMB	4.234	22.566	48.0094
8	8.14	NITRATE	BMB	1.298	7.595	4.6287
9	8.67	CHLORATE	BMB	0.071	0.404	2.3090
		TOTAL:		16.16	124.12	160.26



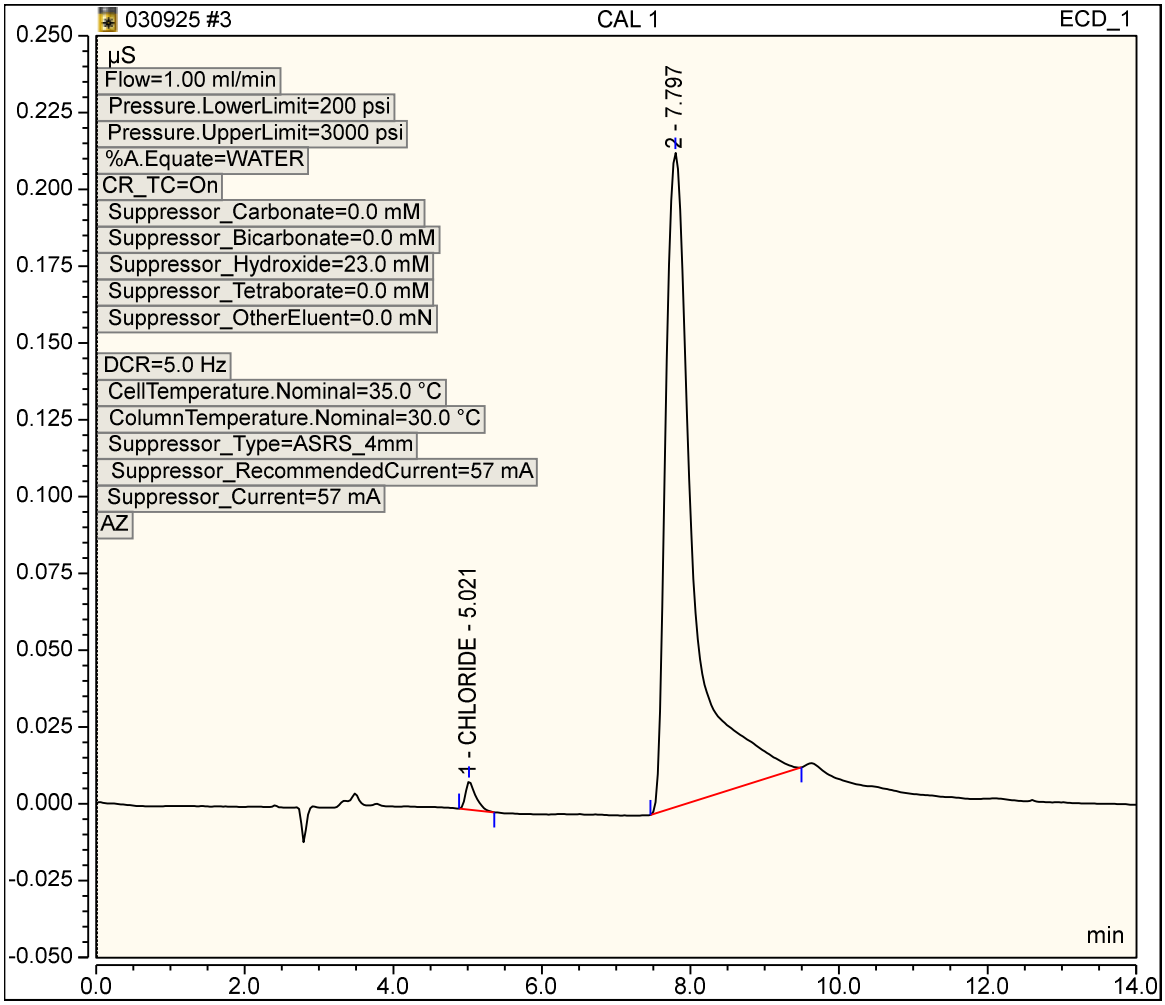
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 21:08**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
2	4.43	CHLORIDE	BMB	0.001	0.005	0.1815
		TOTAL:		0.00	0.01	0.18



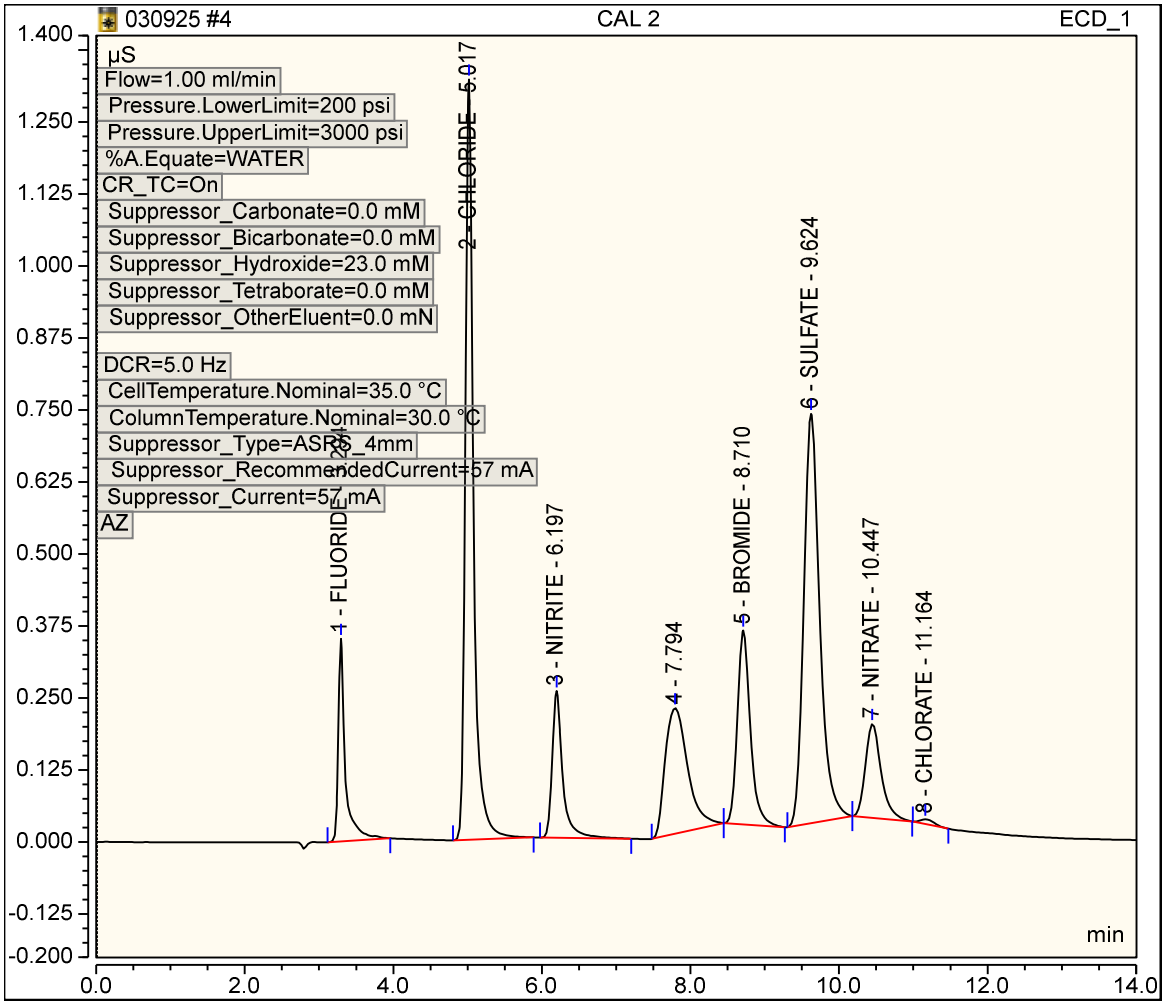
Sample Name:	**CAL 1**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	**25B27874**
Inj. Date/Time:	**03/09/25 04:29**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	5.02	CHLORIDE	BMB	0.001	0.009	n.a.
		TOTAL:		0.00	0.01	0.00



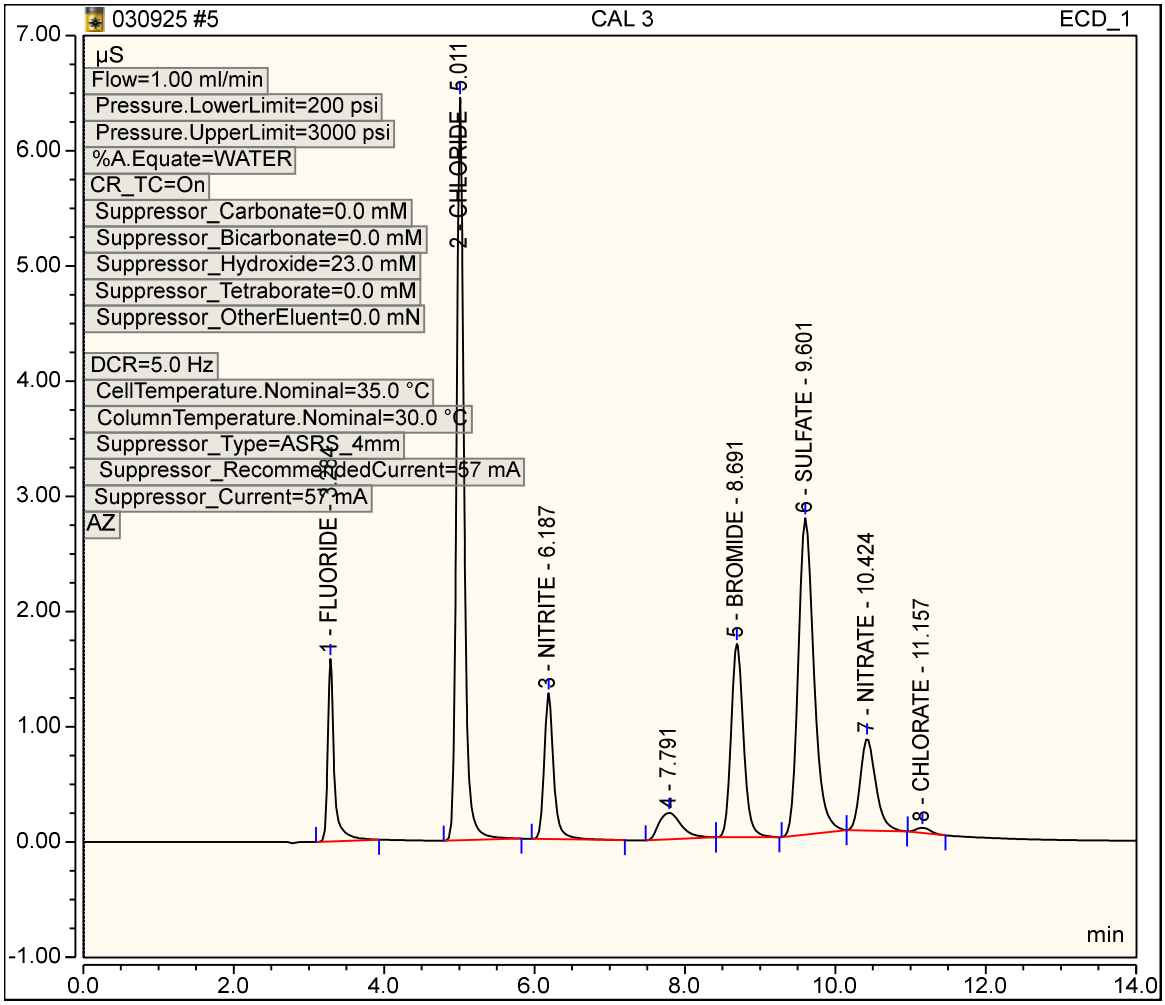
Sample Name:	**CAL 2**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 04:46**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMB	0.039	0.352	0.0980
2	5.02	CHLORIDE	BMB	0.168	1.320	1.0634
3	6.20	NITRITE	BMB	0.042	0.255	0.0857
5	8.71	BROMIDE	bMB	0.068	0.337	0.9962
6	9.62	SULFATE	BMb	0.179	0.711	0.8171
7	10.45	NITRATE	bMB	0.040	0.163	0.0910
8	11.16	CHLORATE	BMB	0.002	0.008	0.0608
		TOTAL:		0.54	3.14	3.21



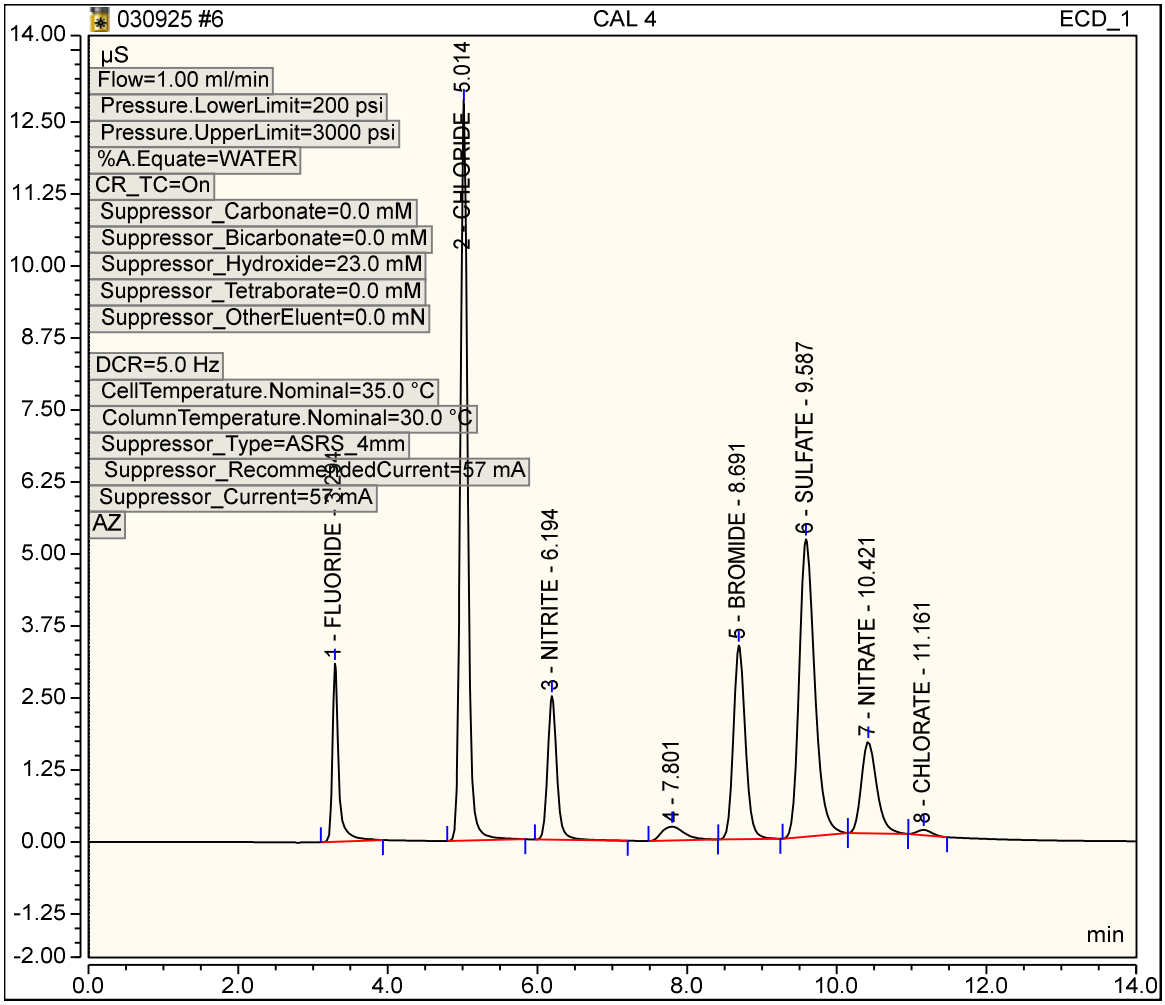
Sample Name:	**CAL 3**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 05:03**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.28	FLUORIDE	BMB	0.158	1.586	0.5341
2	5.01	CHLORIDE	BMB	0.749	6.445	5.1350
3	6.19	NITRITE	BMB	0.186	1.266	0.5284
5	8.69	BROMIDE	bMB	0.317	1.680	5.0211
6	9.60	SULFATE	BMb	0.667	2.747	5.3854
7	10.42	NITRATE	bMB	0.191	0.800	0.5159
8	11.16	CHLORATE	BMB	0.010	0.045	0.2293
		TOTAL:		2.28	14.57	17.35



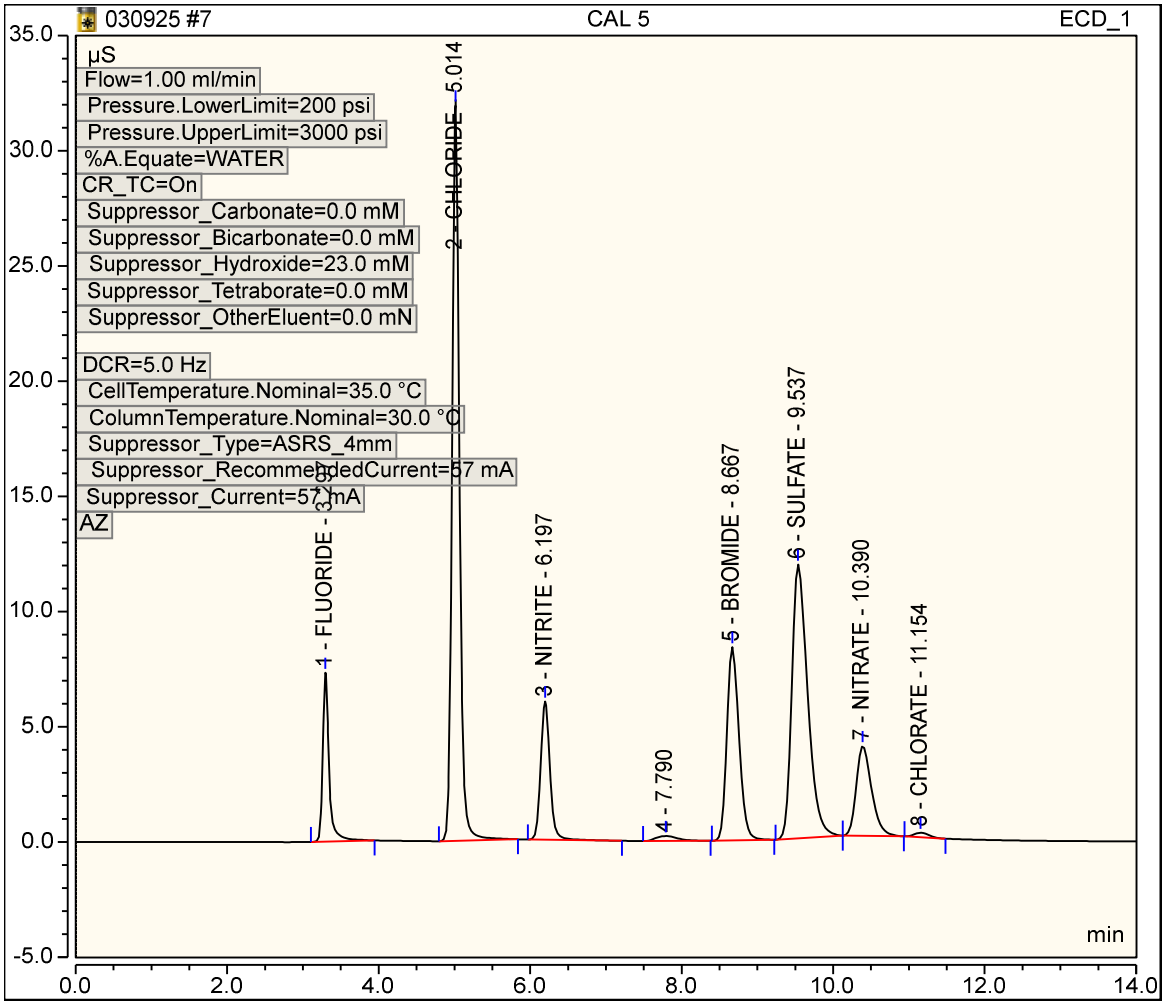
Sample Name:	**CAL 4**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 05:19**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMB	0.303	3.089	1.0665
2	5.01	CHLORIDE	BMB	1.458	12.786	10.1041
3	6.19	NITRITE	BMB	0.358	2.494	1.0568
5	8.69	BROMIDE	BMB	0.624	3.362	9.9891
6	9.59	SULFATE	BMb	1.250	5.165	10.8328
7	10.42	NITRATE	bMB	0.376	1.592	1.0401
8	11.16	CHLORATE	BMB	0.021	0.094	0.4515
		TOTAL:		4.39	28.58	34.54



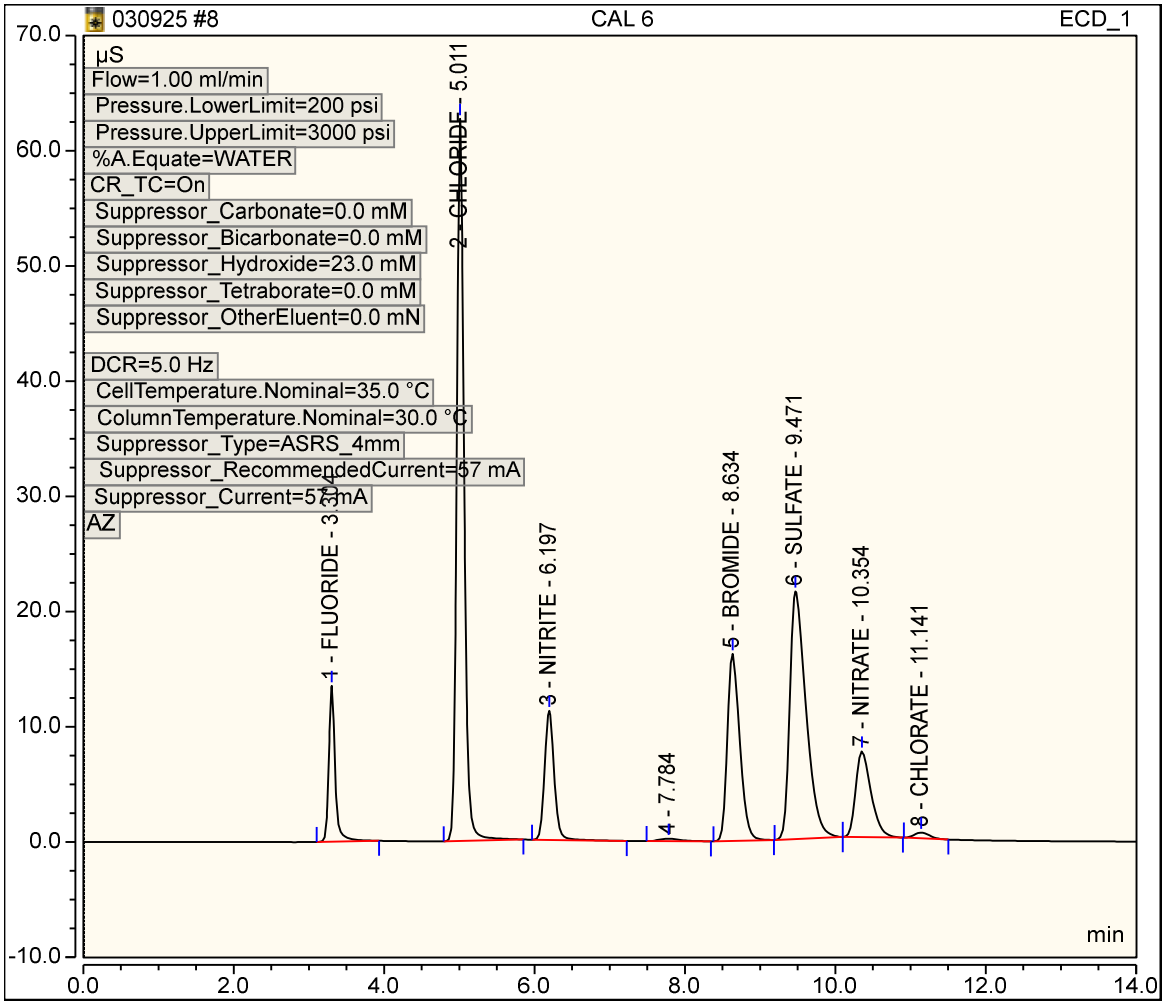
Sample Name:	**CAL 5**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 05:36**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMB	0.712	7.332	2.5684
2	5.01	CHLORIDE	BMB	3.611	31.917	25.1936
3	6.20	NITRITE	BMB	0.862	6.007	2.6087
5	8.67	BROMIDE	BMB	1.558	8.398	25.1225
6	9.54	SULFATE	BMb	2.887	11.882	26.1397
7	10.39	NITRATE	bMB	0.920	3.902	2.5788
8	11.15	CHLORATE	BMB	0.044	0.196	0.9442
		TOTAL:		10.59	69.63	85.16



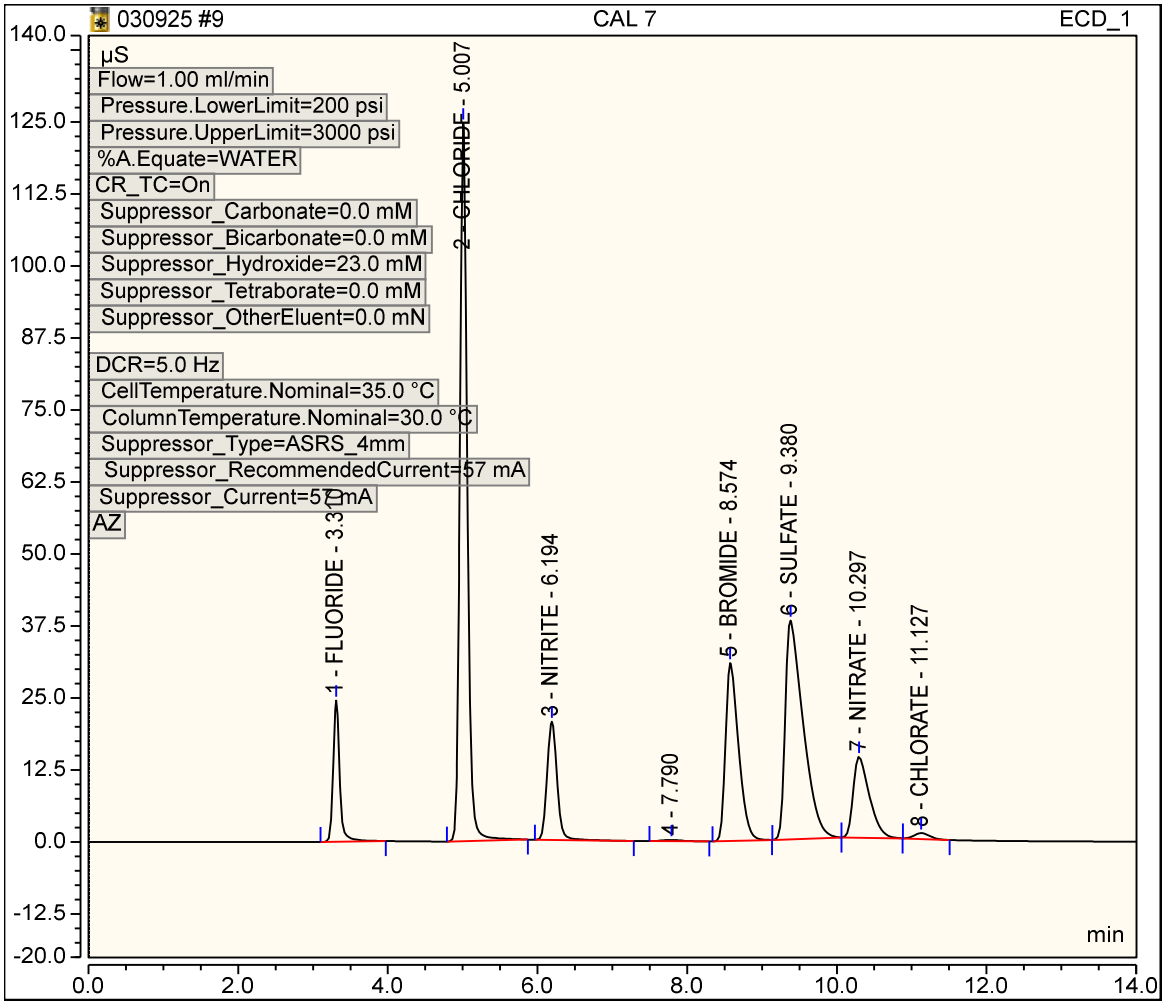
Sample Name:	**CAL 6**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 05:53**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMB	1.315	13.527	4.7782
2	5.01	CHLORIDE	BMB	7.107	62.675	49.6857
3	6.20	NITRITE	BMB	1.654	11.216	5.0414
5	8.63	BROMIDE	BMB	3.076	16.226	49.7112
6	9.47	SULFATE	BMb	5.424	21.504	49.8689
7	10.35	NITRATE	bMB	1.775	7.447	4.9971
8	11.14	CHLORATE	BMB	0.119	0.507	2.4843
		TOTAL:		20.47	133.10	166.57



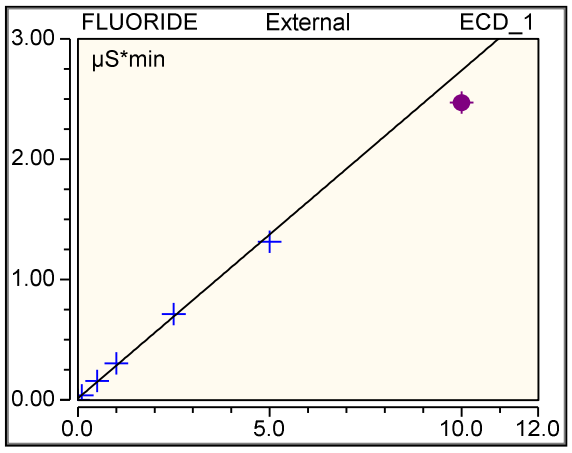
Sample Name:	**CAL 7**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 06:10**	*Run Time:*	**14.00**

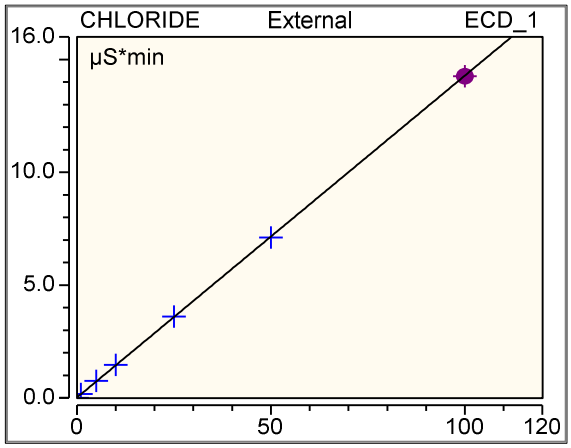
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMB	2.471	24.551	9.0187
2	5.01	CHLORIDE	BMB	14.262	124.638	99.8182
3	6.19	NITRITE	BMB	3.195	20.555	9.7790
5	8.57	BROMIDE	BMB	6.191	30.864	100.1600
6	9.38	SULFATE	BMb	10.566	37.960	97.9562
7	10.30	NITRATE	bMB	3.500	14.057	9.8771
8	11.13	CHLORATE	BMB	0.246	1.014	5.1299
		TOTAL:		40.43	253.64	331.74

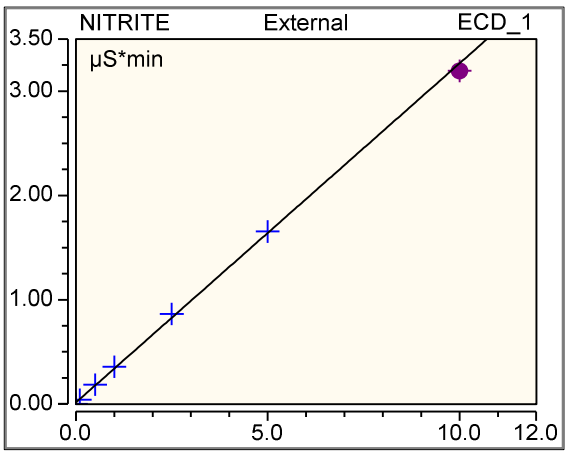


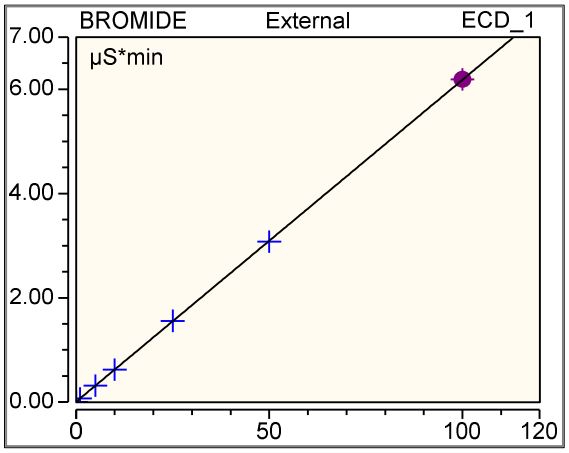
Calibration Batch Report

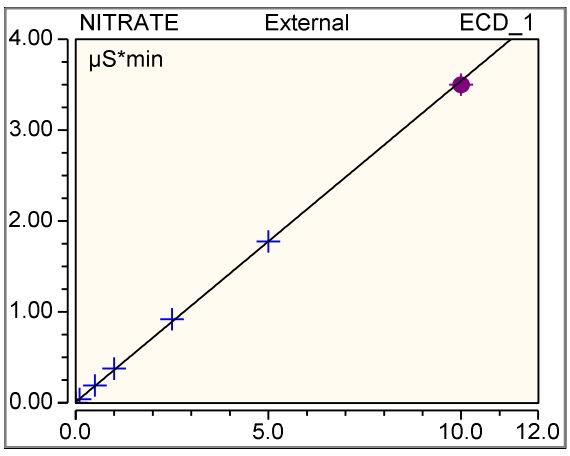
Sequence:	**030925**	Inj. Vol.:	**25.0**
Program:	**IC-11 Anions**	Operator:	**WETLABIC22**
Inj. Date/Time:	**03/09/25 06:10**	Run Time:	**14.00**

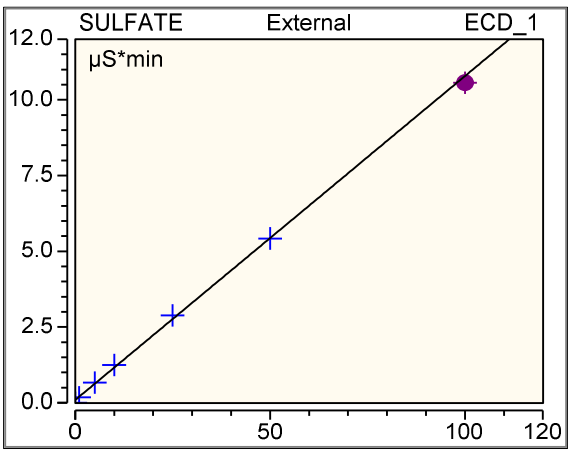




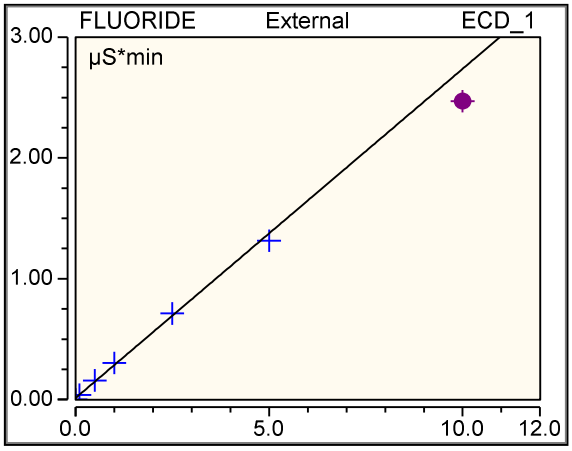








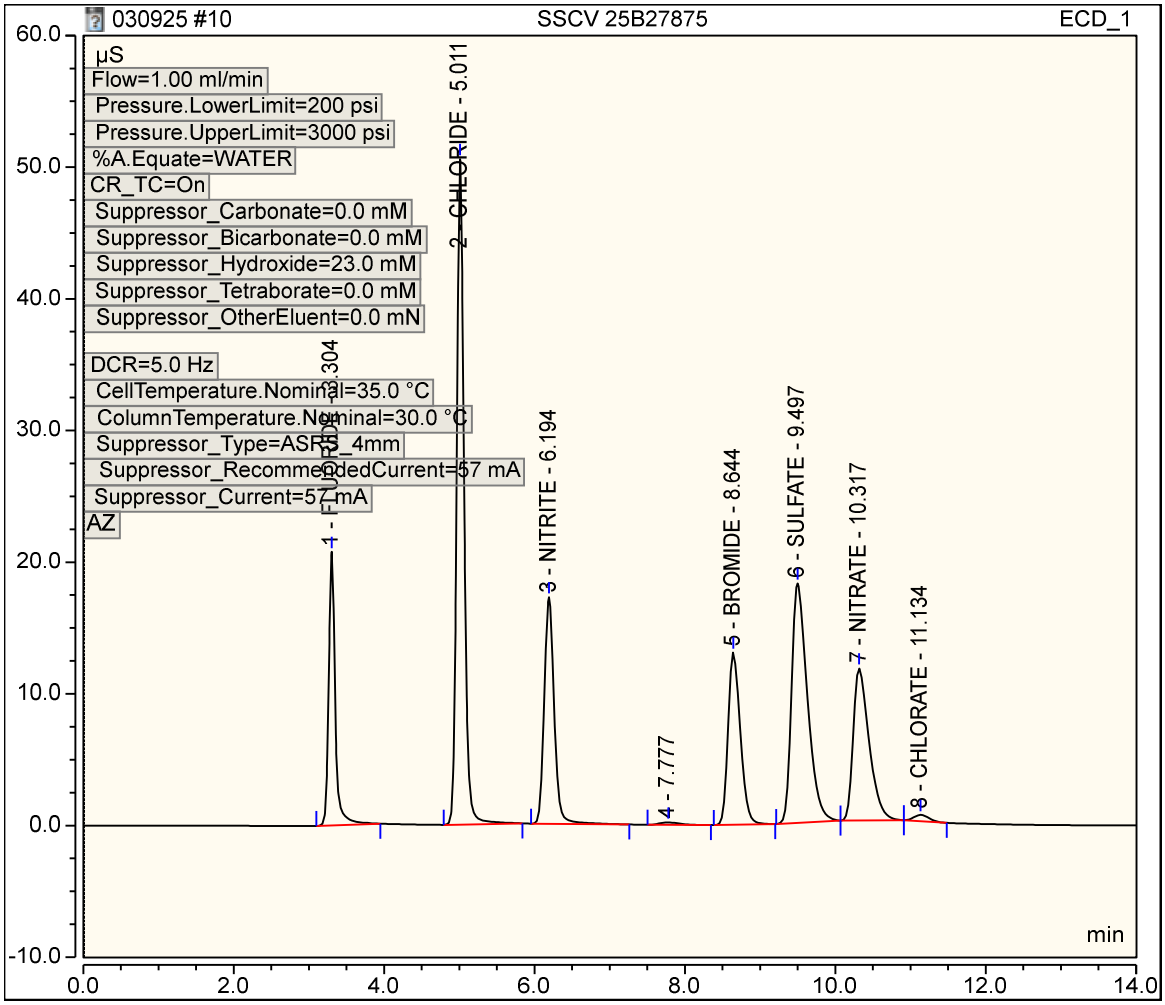
Sequence:	**030925**	*Inj. Vol.:*	**25.0**
Program:	**IC-11 Anions**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/09/25 06:10**	*Run Time:*	**14.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.31	FLUORIDE	, WithOffset, 1	6	0.012	0.273	0.000	99.743
2	5.01	CHLORIDE	, WithOffset, 1	7	0.016	0.143	0.000	99.994
3	6.19	NITRITE	, WithOffset, 1	6	0.014	0.325	0.000	99.949
5	8.57	BROMIDE	, WithOffset, 1	6	0.007	0.062	0.000	99.999
6	9.38	SULFATE	, WithOffset, 1	6	0.091	0.107	0.000	99.931
7	10.30	NITRATE	, WithOffset, 1	6	0.008	0.353	0.000	99.979
8	11.13	CHLORATE	, WithOffset, 1	6	-0.001	0.048	0.000	99.904
AVERAGE:					0.0210	0.1873	0.0000	99.9284

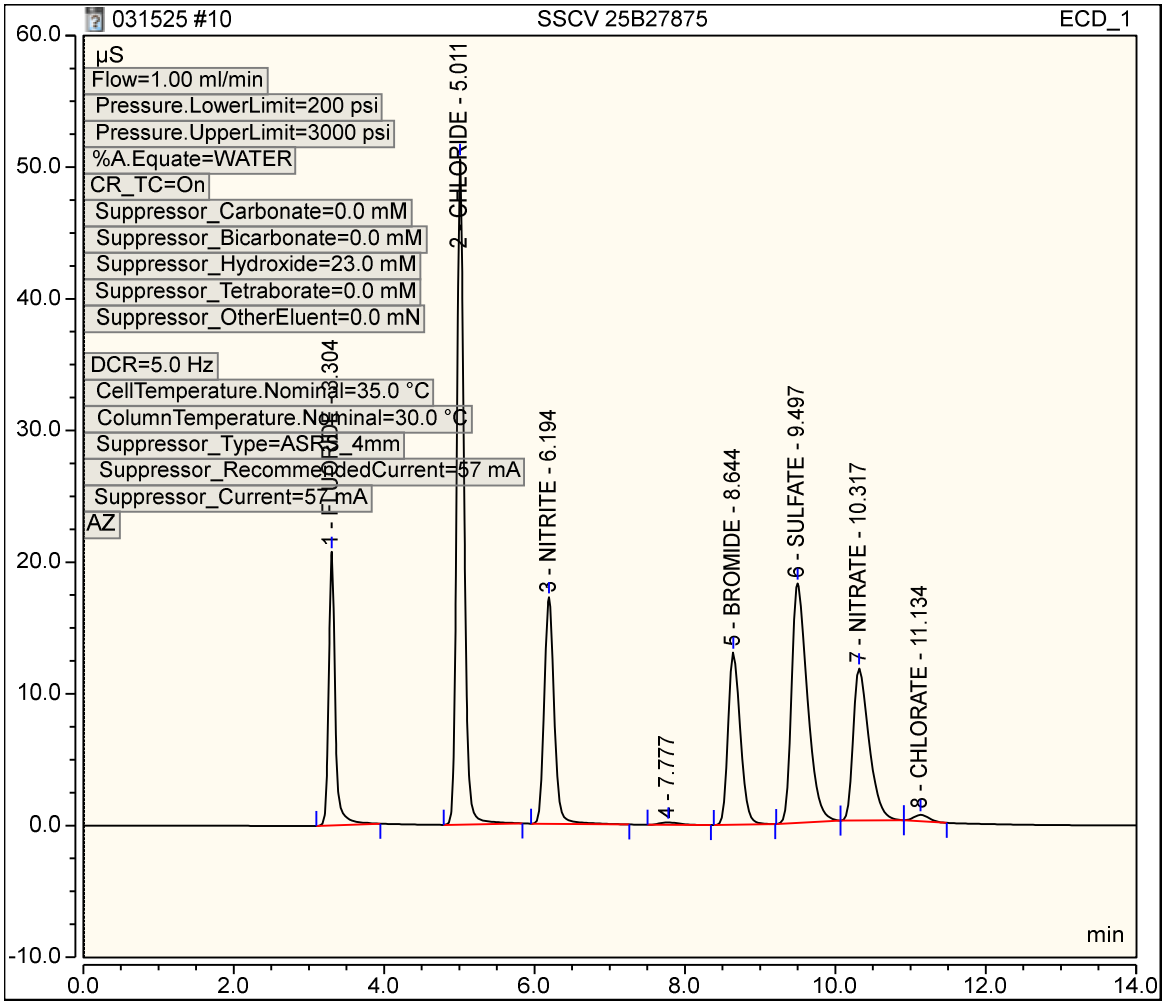
Sample Name:	**SSCV 25B27875**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 06:27**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMB	2.079	20.772	7.5803
2	5.01	CHLORIDE	BMB	5.714	50.549	39.9293
3	6.19	NITRITE	BMB	2.645	17.203	8.0878
5	8.64	BROMIDE	BMB	2.450	13.100	39.5750
6	9.50	SULFATE	BMb	4.466	18.189	40.9125
7	10.32	NITRATE	bMb	2.840	11.564	8.0103
8	11.13	CHLORATE	bMB	0.114	0.488	2.3836
		TOTAL:		20.31	131.87	146.48



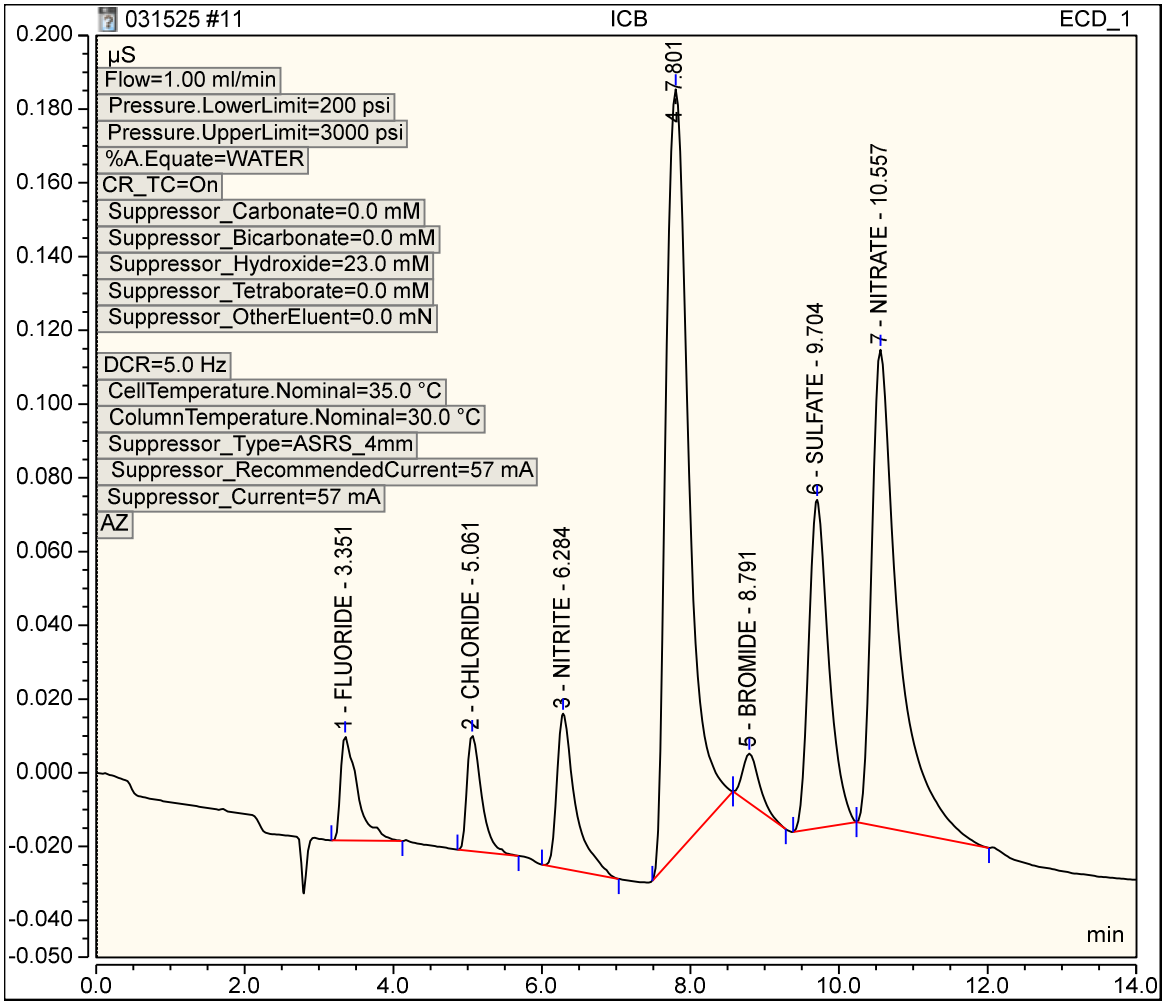
Sample Name:	**SSCV 25B27875**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 06:27**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMB	2.079	20.772	7.5803
2	5.01	CHLORIDE	BMB	5.714	50.549	39.9293
3	6.19	NITRITE	BMB	2.645	17.203	8.0878
5	8.64	BROMIDE	BMB	2.450	13.100	39.5750
6	9.50	SULFATE	BMb	4.466	18.189	40.9125
7	10.32	NITRATE	bMb	2.840	11.564	8.0103
8	11.13	CHLORATE	bMB	0.114	0.488	2.3836
		TOTAL:		20.31	131.87	146.48



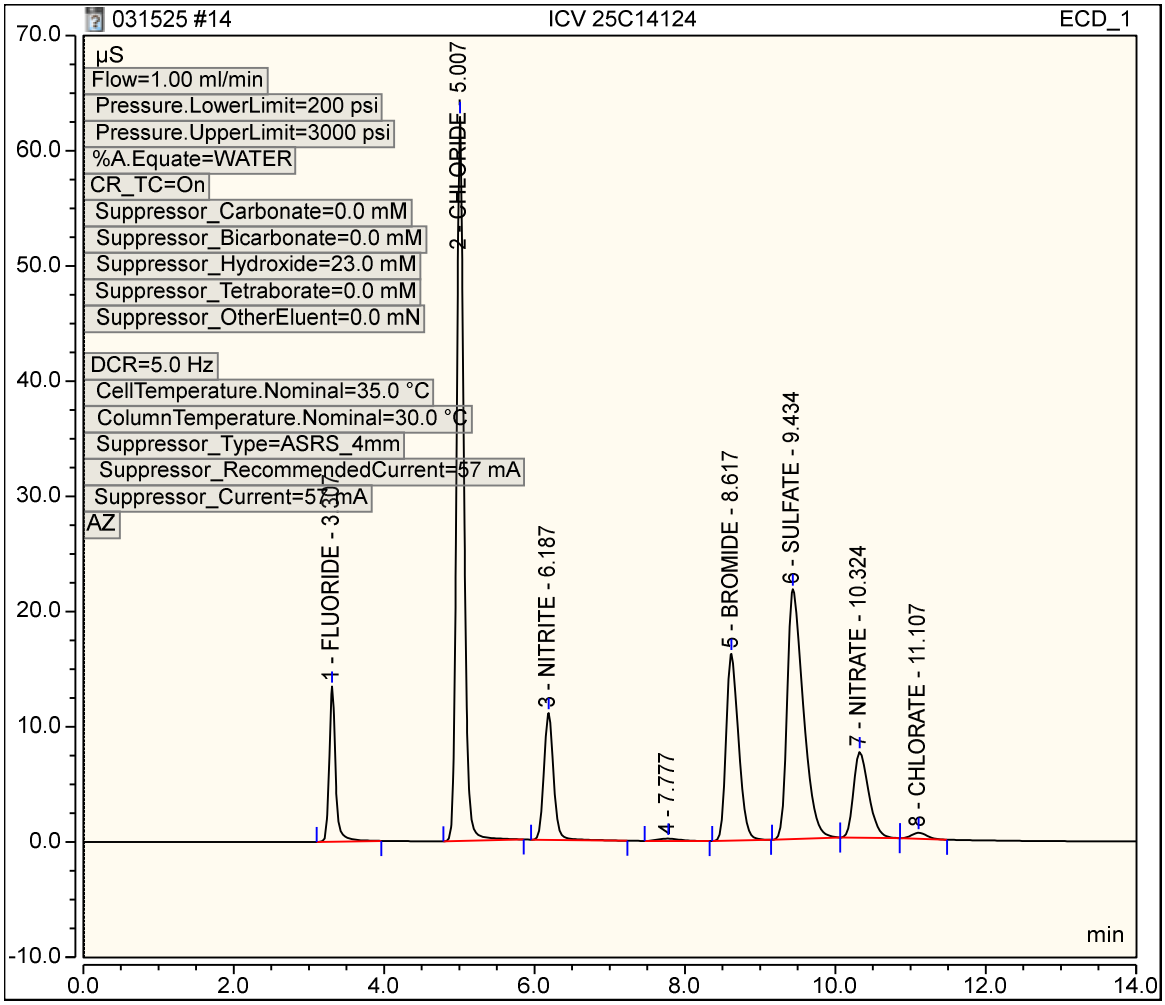
Sample Name:	**ICB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/09/25 06:44**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.35	FLUORIDE	BMB	0.008	0.028	n.a.
2	5.06	CHLORIDE	BMB	0.007	0.031	n.a.
3	6.28	NITRITE	BMB	0.012	0.042	n.a.
5	8.79	BROMIDE	bMB	0.004	0.013	n.a.
6	9.70	SULFATE	BMb	0.028	0.089	n.a.
7	10.56	NITRATE	bMB	0.055	0.129	0.1316
		TOTAL:		0.11	0.33	0.13



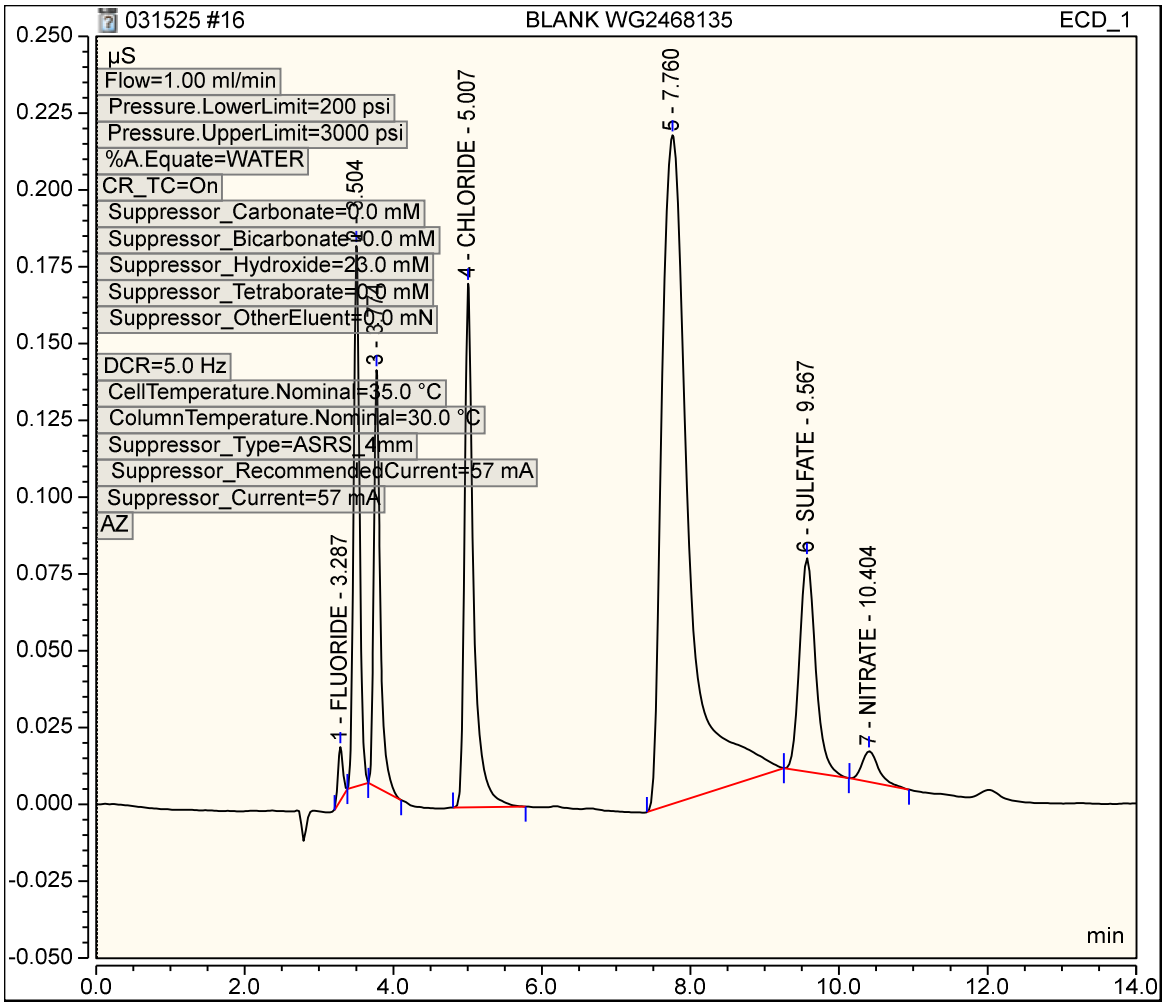
Sample Name:	**ICV 25C14124**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 10:46**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMB	1.314	13.471	4.7768
2	5.01	CHLORIDE	BMB	7.139	62.839	49.9092
3	6.19	NITRITE	BMB	1.643	11.013	5.0095
5	8.62	BROMIDE	BMB	3.082	16.214	49.8044
6	9.43	SULFATE	BMb	5.430	21.681	49.9212
7	10.32	NITRATE	bMB	1.747	7.439	4.9182
8	11.11	CHLORATE	BMB	0.123	0.518	2.5735
		TOTAL:		20.48	133.17	166.91



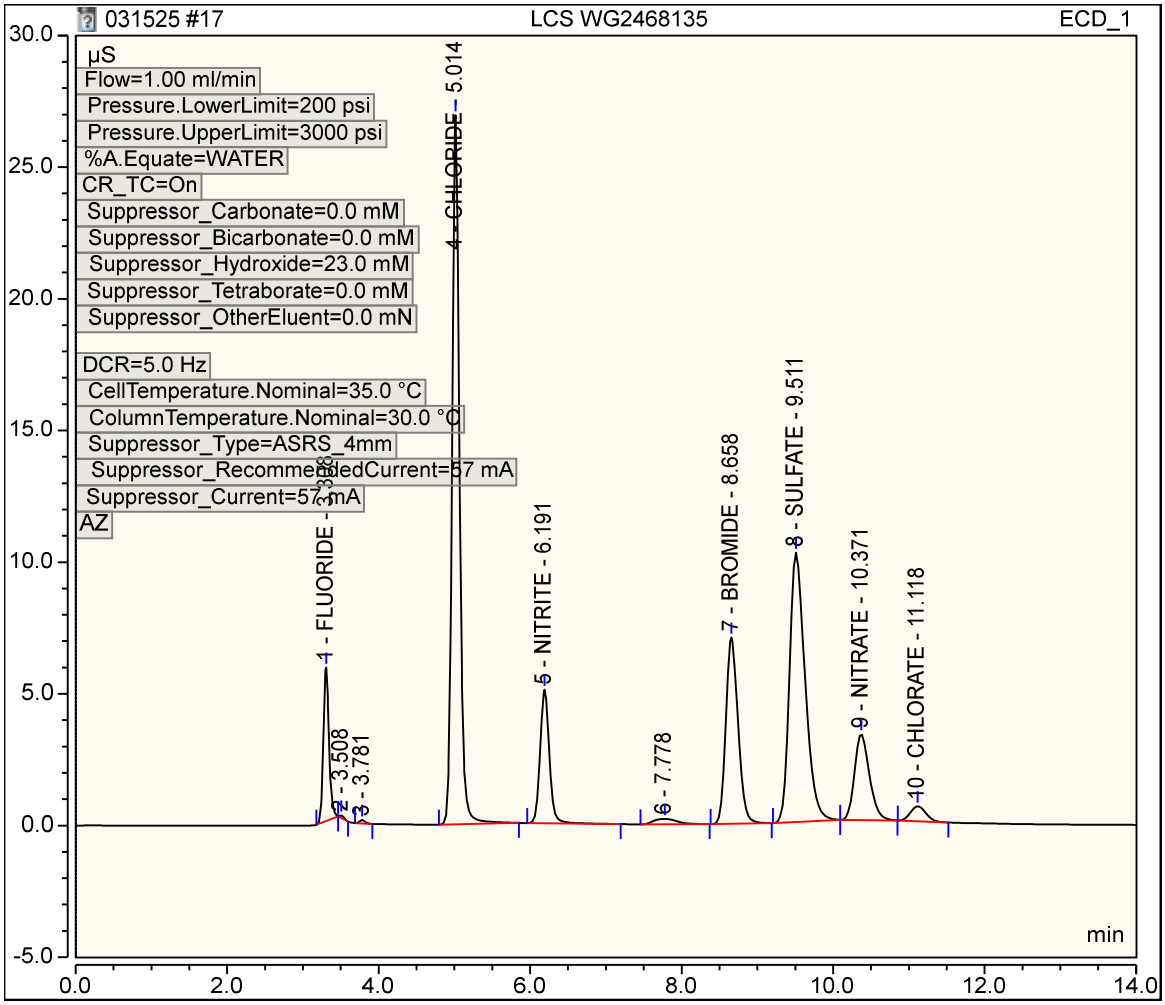
Sample Name:	**BLANK WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 16:27**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.001	0.017	n.a.
4	5.01	CHLORIDE	BMB	0.024	0.170	0.0584
6	9.57	SULFATE	bMB	0.017	0.070	n.a.
7	10.40	NITRATE	BMB	0.003	0.010	n.a.
		TOTAL:		0.05	0.27	0.06



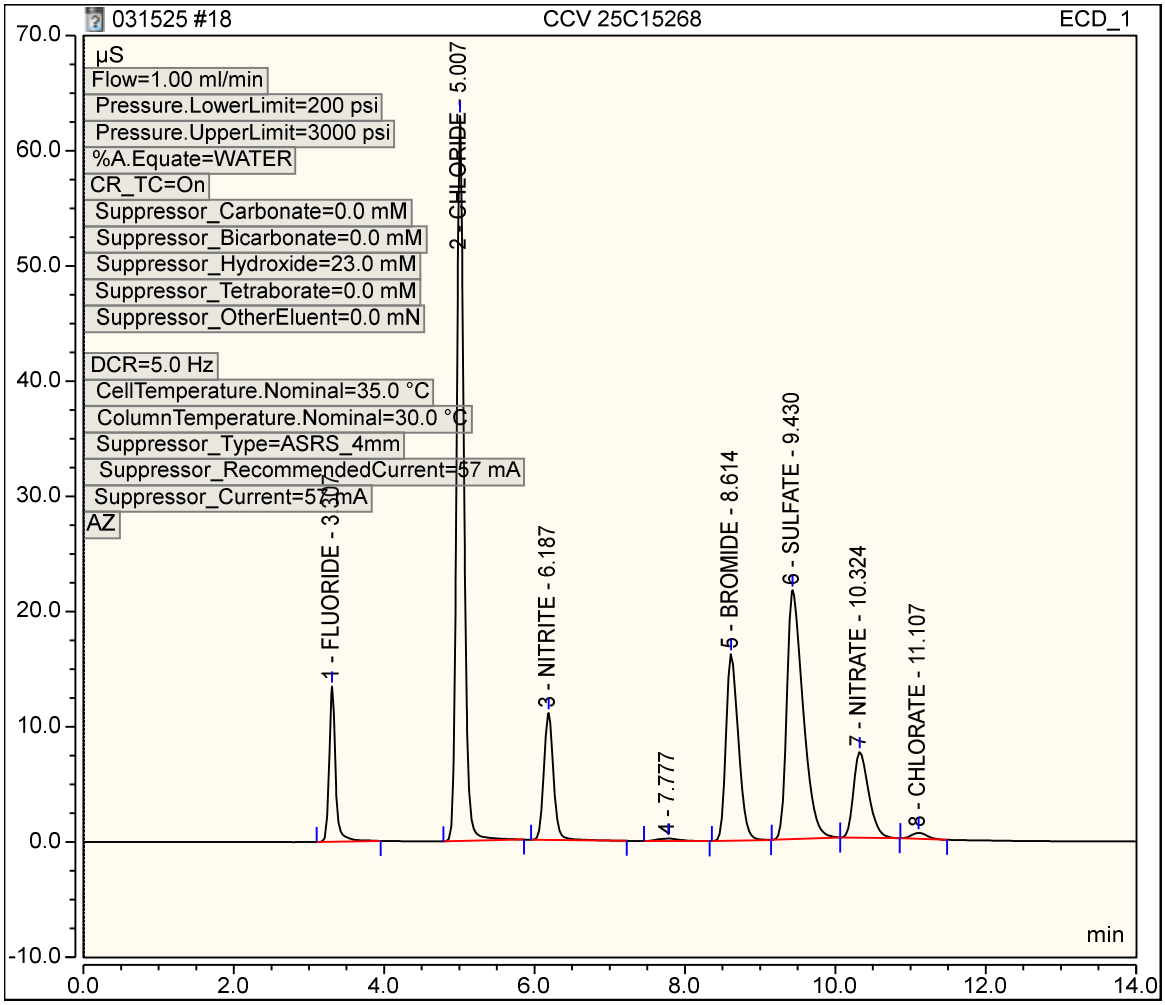
Sample Name:	**LCS WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 16:44**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMb	0.497	5.825	1.7796
4	5.01	CHLORIDE	BMB	3.053	26.924	21.2796
5	6.19	NITRITE	BMB	0.728	5.075	2.1963
7	8.66	BROMIDE	BMB	1.316	7.074	21.2002
8	9.51	SULFATE	BMb	2.453	10.231	22.0892
9	10.37	NITRATE	bMB	0.749	3.270	2.0958
10	11.12	CHLORATE	BMB	0.135	0.568	2.8217
		TOTAL:		8.93	58.97	73.46



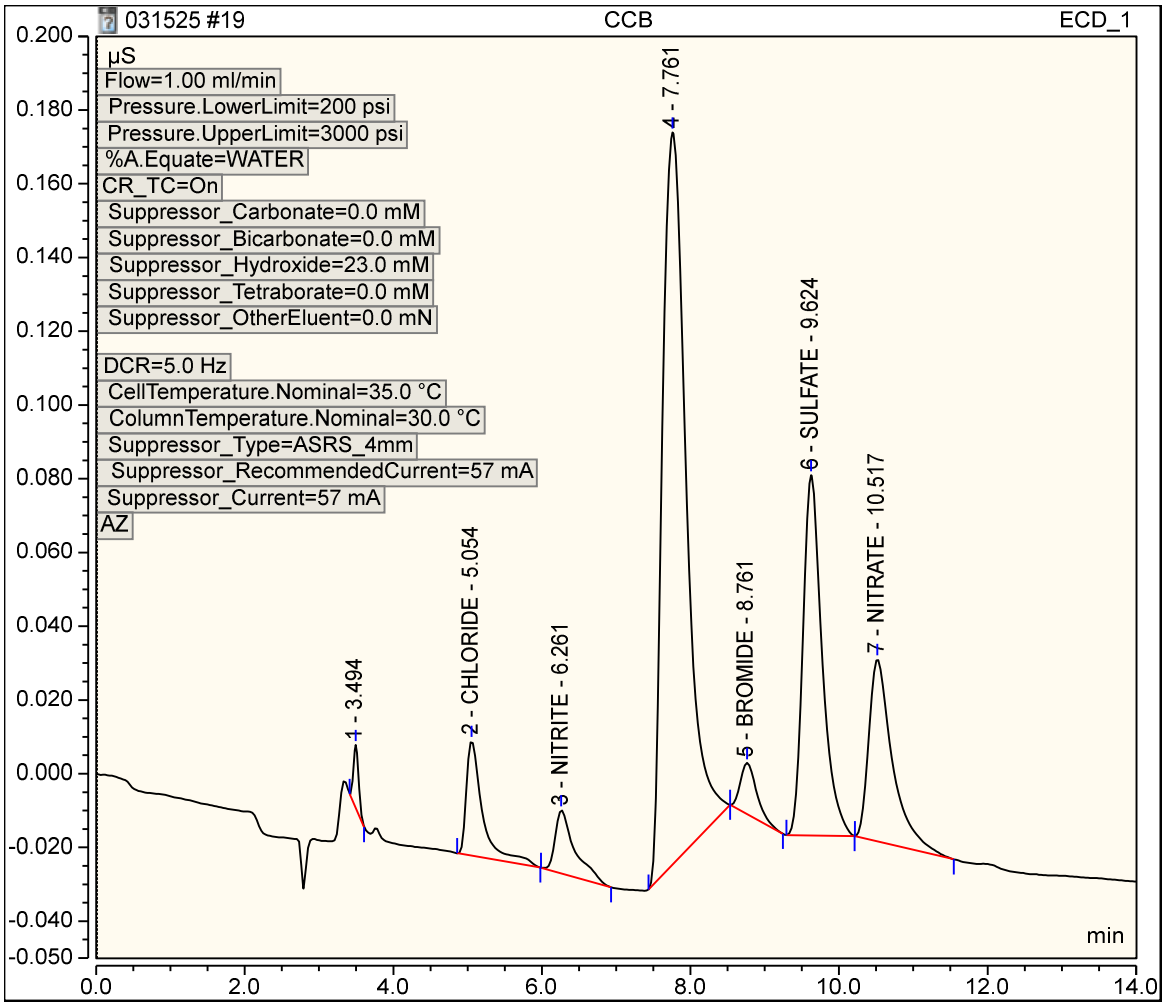
Sample Name:	**CCV 25C15268**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 17:01**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMB	1.315	13.485	4.7794
2	5.01	CHLORIDE	BMB	7.148	62.926	49.9725
3	6.19	NITRITE	BMB	1.642	11.027	5.0060
5	8.61	BROMIDE	BMB	3.085	16.212	49.8575
6	9.43	SULFATE	BMb	5.430	21.605	49.9267
7	10.32	NITRATE	bMB	1.748	7.445	4.9220
8	11.11	CHLORATE	BMB	0.123	0.519	2.5780
		TOTAL:		20.49	133.22	167.04



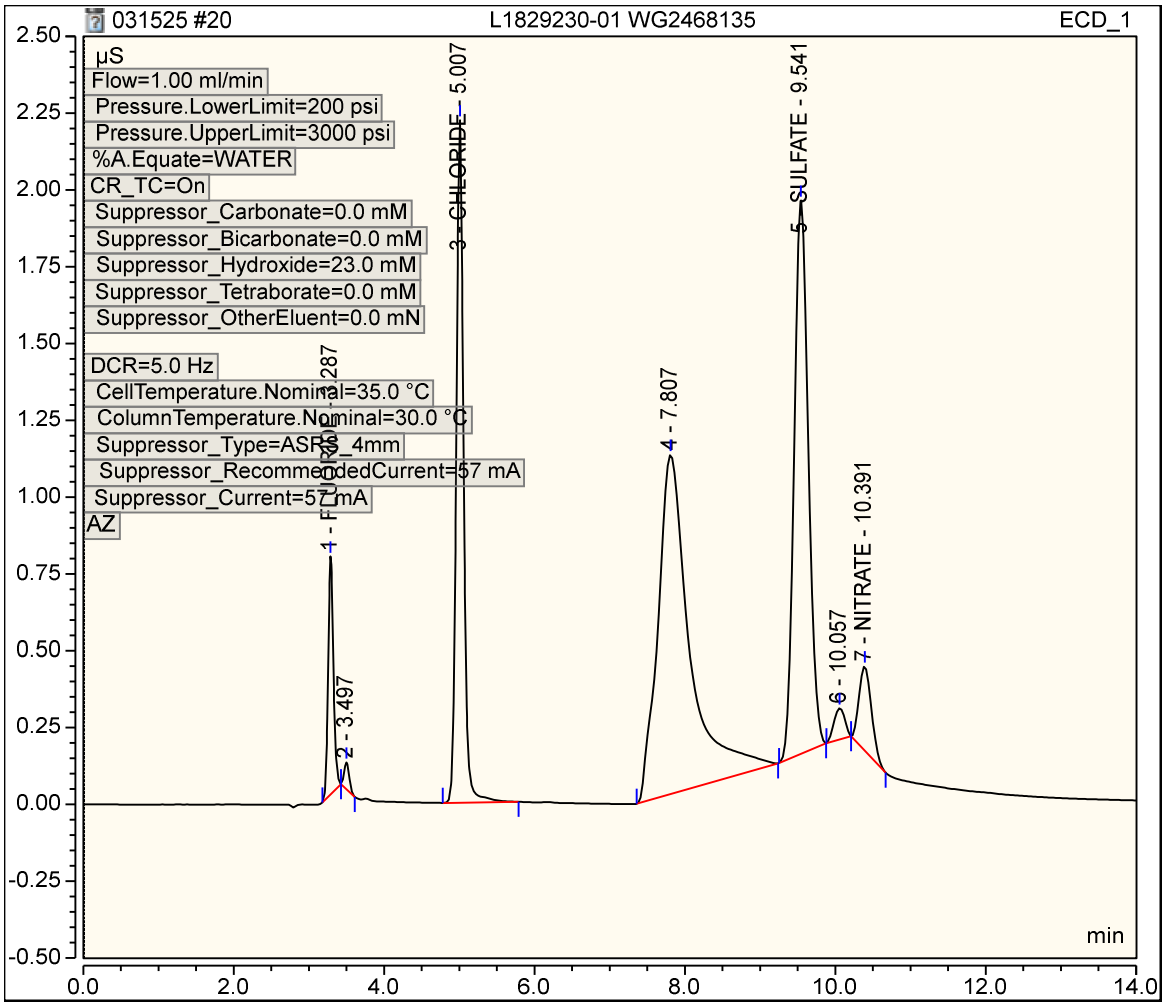
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 17:17**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
2	5.05	CHLORIDE	BMB	0.008	0.031	n.a.
3	6.26	NITRITE	BMB	0.005	0.017	n.a.
5	8.76	BROMIDE	bMB	0.004	0.014	n.a.
6	9.62	SULFATE	BMB	0.029	0.098	n.a.
7	10.52	NITRATE	BMB	0.018	0.049	0.0284
		TOTAL:		0.06	0.21	0.03



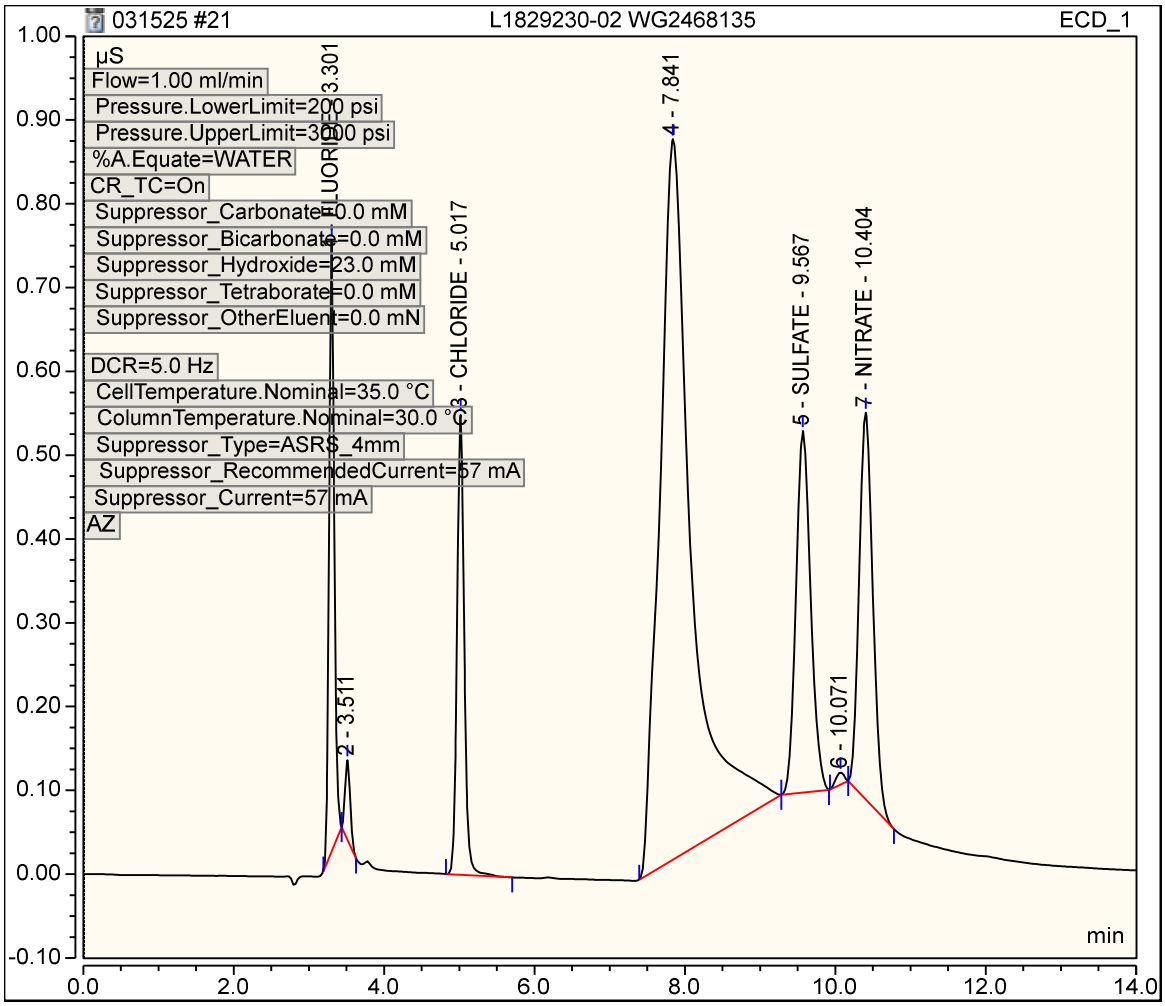
Sample Name:	**L1829230-01 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 17:34**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.062	0.775	0.1838
3	5.01	CHLORIDE	BMB	0.250	2.221	1.6397
5	9.54	SULFATE	BMB	0.395	1.802	2.8429
7	10.39	NITRATE	bMB	0.053	0.274	0.1260
		TOTAL:		0.76	5.07	4.79



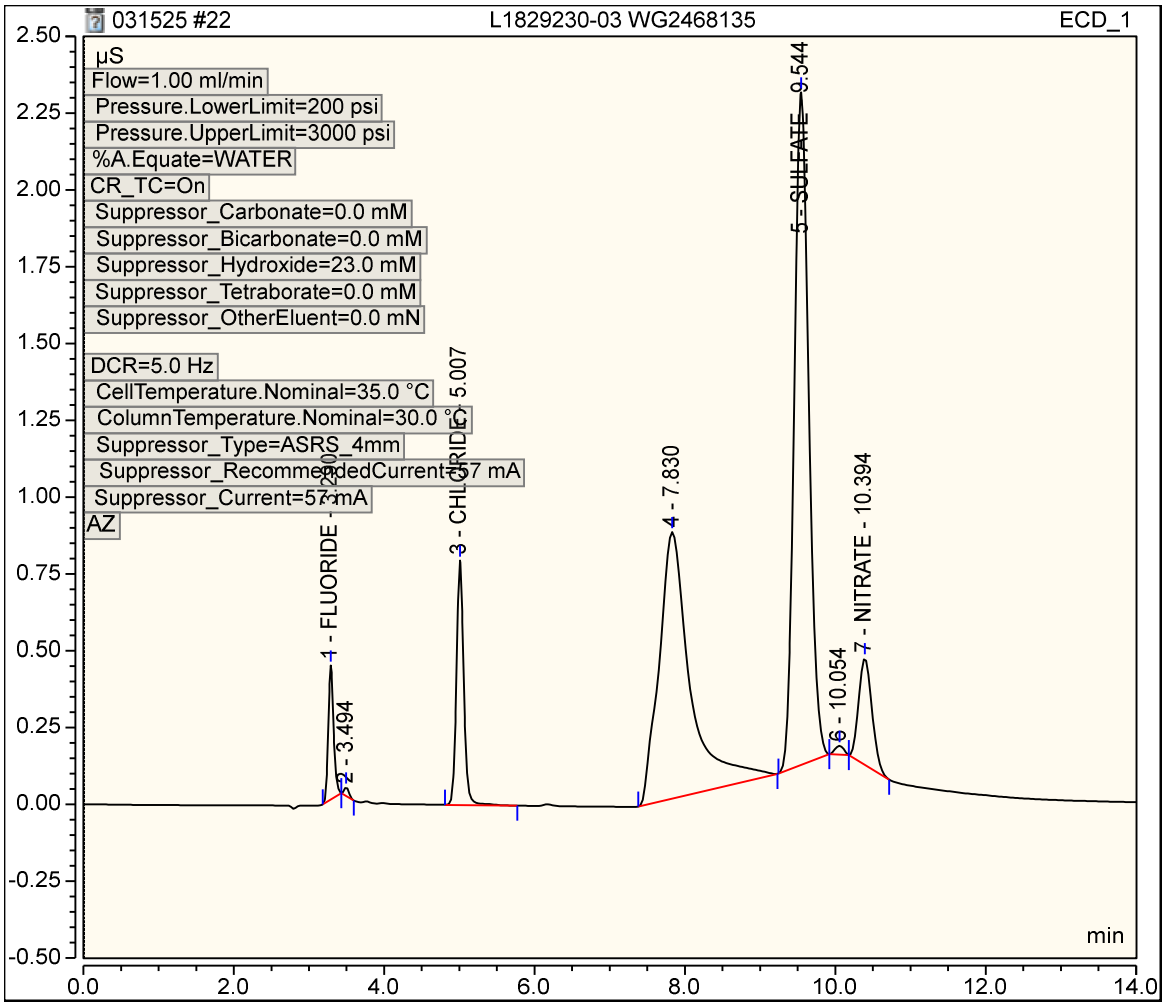
Sample Name:	**L1829230-02 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 17:51**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.058	0.730	0.1698
3	5.02	CHLORIDE	BMB	0.061	0.549	0.3142
5	9.57	SULFATE	bMB	0.099	0.432	0.0672
7	10.40	NITRATE	bMB	0.098	0.462	0.2527
		TOTAL:		0.32	2.17	0.80



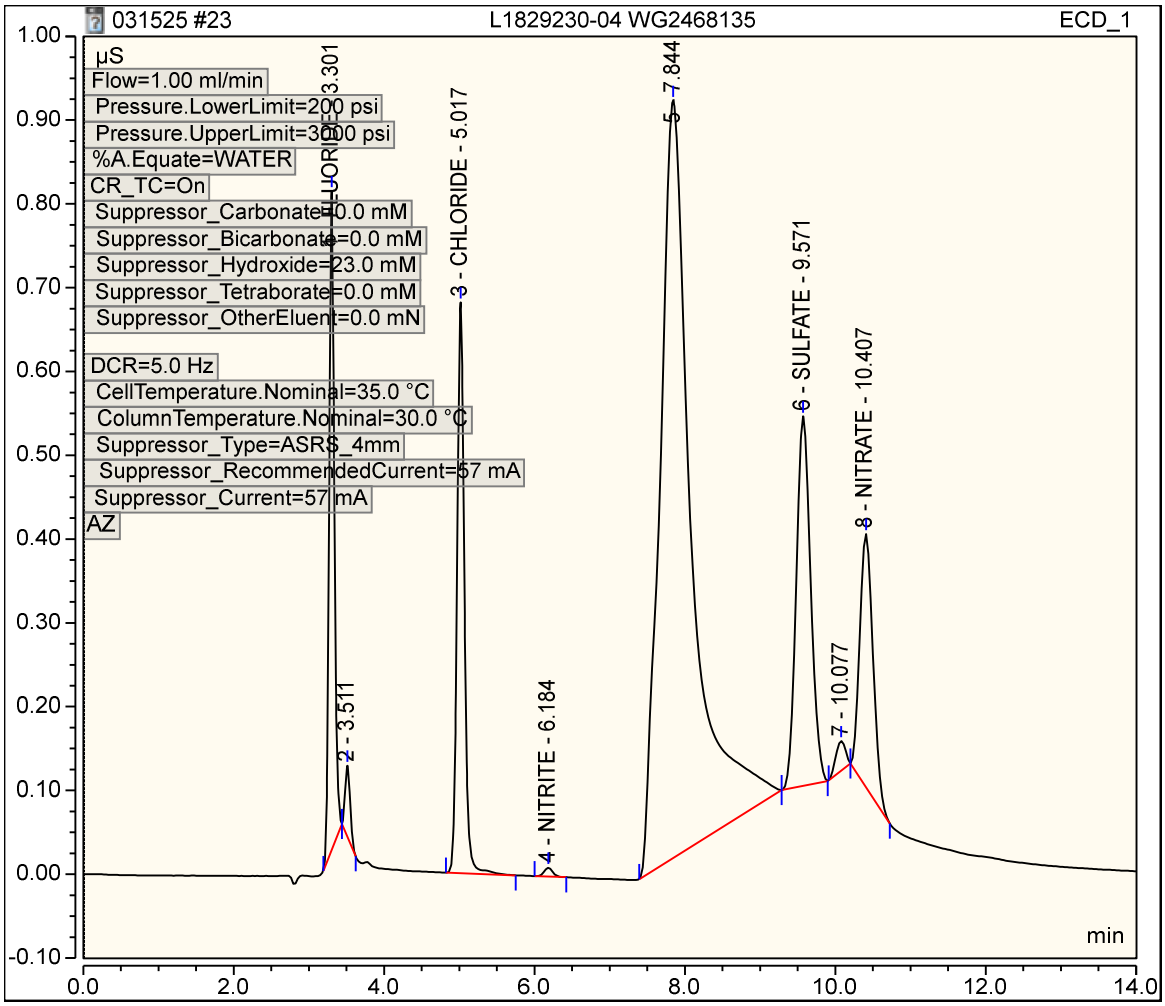
Sample Name:	**L1829230-03 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 18:08**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.035	0.436	0.0851
3	5.01	CHLORIDE	BMB	0.089	0.796	0.5096
5	9.54	SULFATE	BMb	0.492	2.189	3.7466
7	10.39	NITRATE	bMB	0.071	0.347	0.1782
		TOTAL:		0.69	3.77	4.52



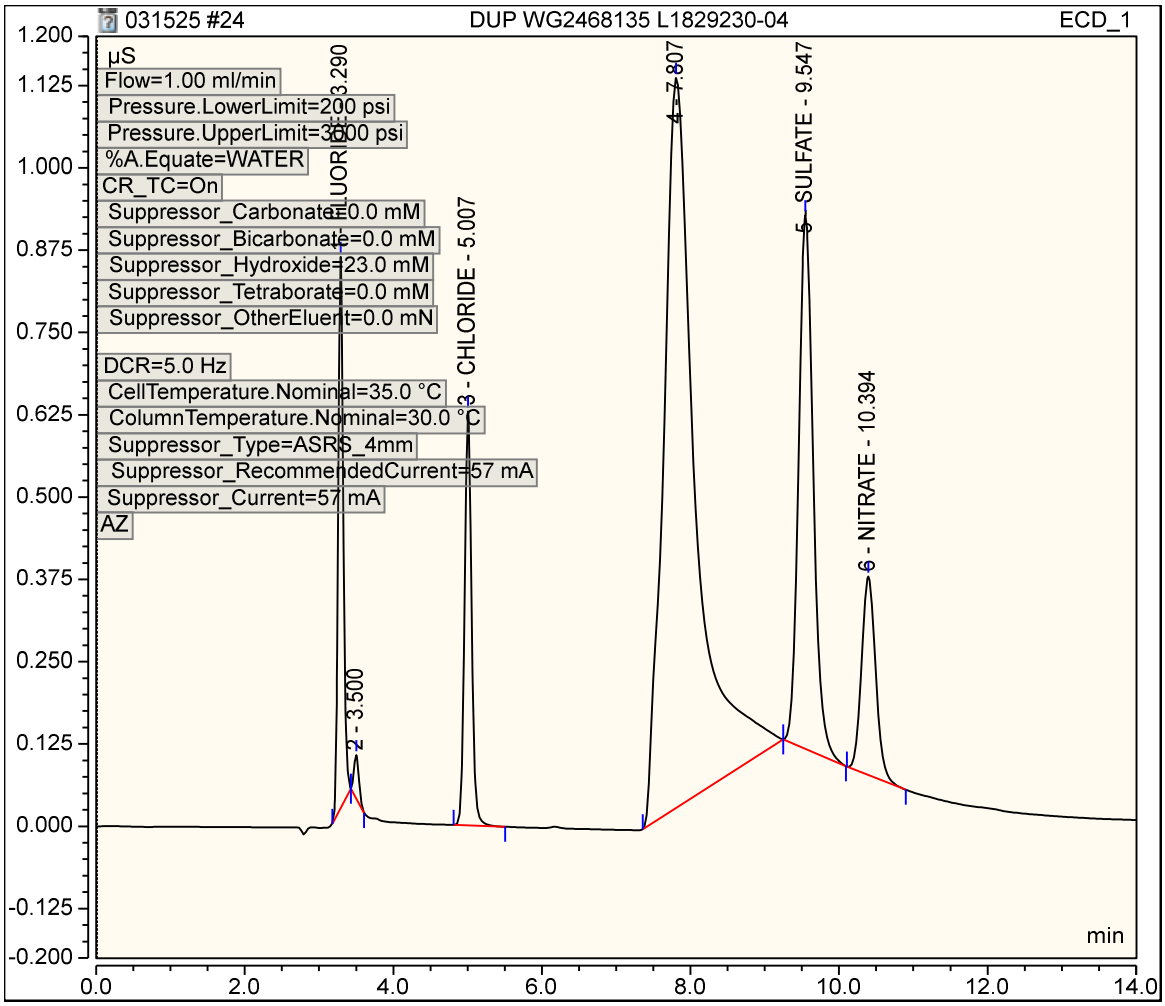
Sample Name:	**L1829230-04 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 18:25**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.063	0.786	0.1865
3	5.02	CHLORIDE	BMB	0.075	0.681	0.4182
4	6.18	NITRITE	BMB	0.001	0.011	n.a.
6	9.57	SULFATE	bMB	0.099	0.441	0.0703
8	10.41	NITRATE	bMB	0.062	0.302	0.1506
		TOTAL:		0.30	2.22	0.83



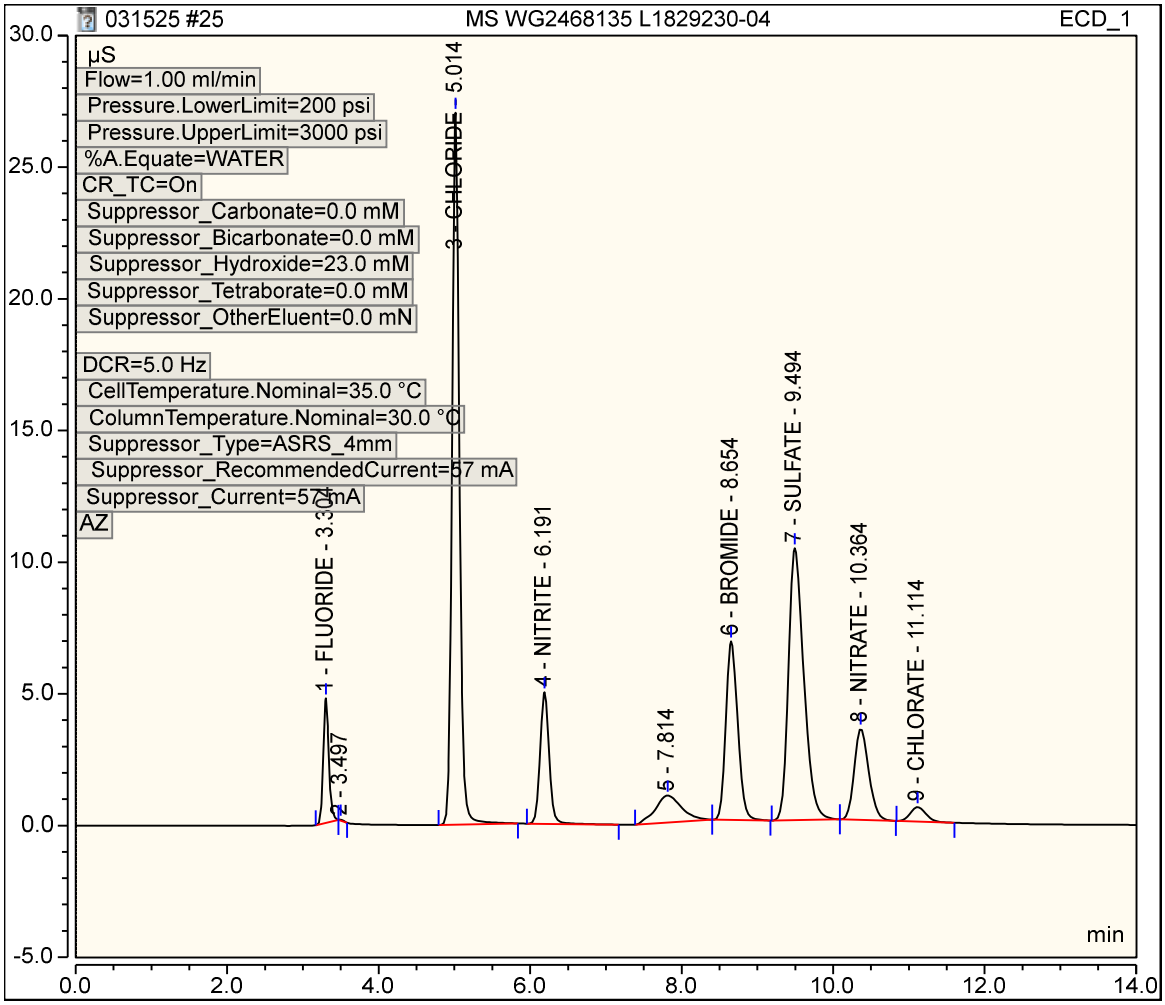
Sample Name:	**DUP WG2468135 L1829230-04**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 18:42**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.067	0.837	0.2018
3	5.01	CHLORIDE	BMB	0.069	0.629	0.3699
5	9.55	SULFATE	bMB	0.186	0.810	0.8799
6	10.39	NITRATE	BMB	0.067	0.302	0.1647
		TOTAL:		0.39	2.58	1.62



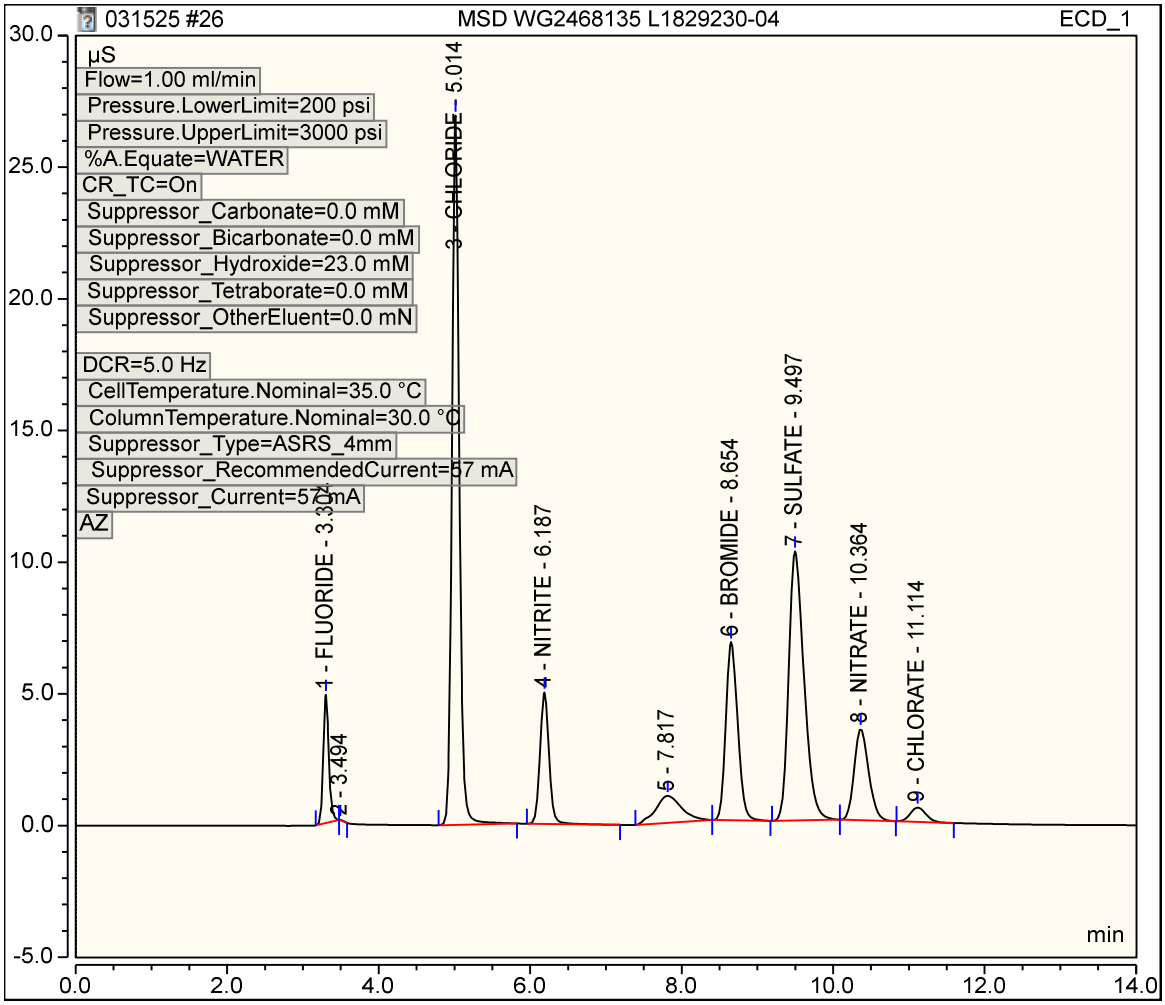
Sample Name:	**MS WG2468135 L1829230-04**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 18:59**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.398	4.724	1.4153
3	5.01	CHLORIDE	BMB	3.038	27.039	21.1797
4	6.19	NITRITE	BMB	0.704	4.997	2.1204
6	8.65	BROMIDE	bMB	1.233	6.784	19.8585
7	9.49	SULFATE	BMb	2.439	10.326	21.9560
8	10.36	NITRATE	bMB	0.775	3.476	2.1682
9	11.11	CHLORATE	BMB	0.132	0.550	2.7585
		TOTAL:		8.72	57.90	71.46



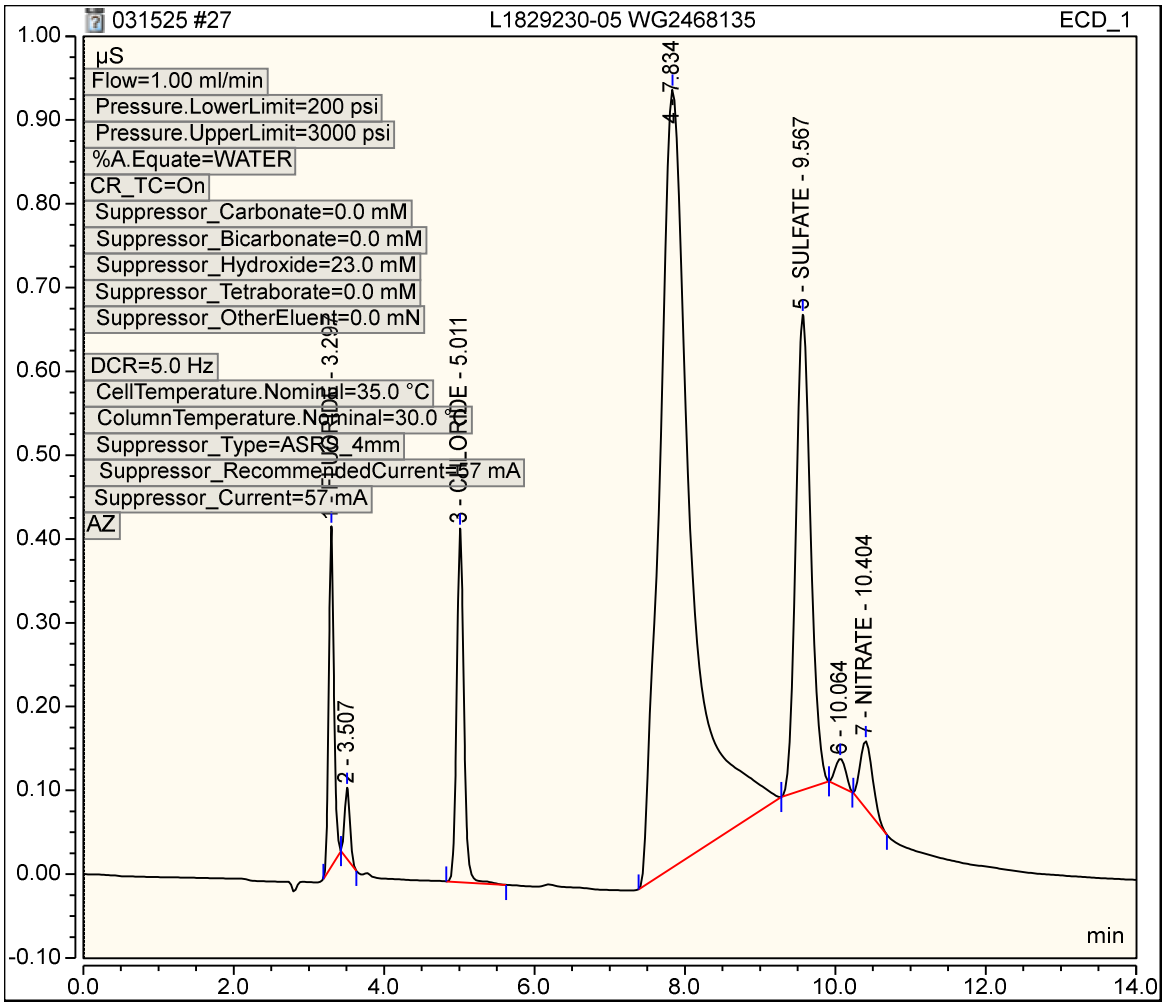
Sample Name:	**MSD WG2468135 L1829230-04**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 19:15**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.411	4.868	1.4624
3	5.01	CHLORIDE	BMB	3.024	26.936	21.0765
4	6.19	NITRITE	BMB	0.703	4.992	2.1198
6	8.65	BROMIDE	bMB	1.230	6.767	19.8143
7	9.50	SULFATE	BMb	2.408	10.216	21.6659
8	10.36	NITRATE	bMB	0.777	3.480	2.1733
9	11.11	CHLORATE	BMB	0.131	0.546	2.7463
		TOTAL:		8.68	57.80	71.06



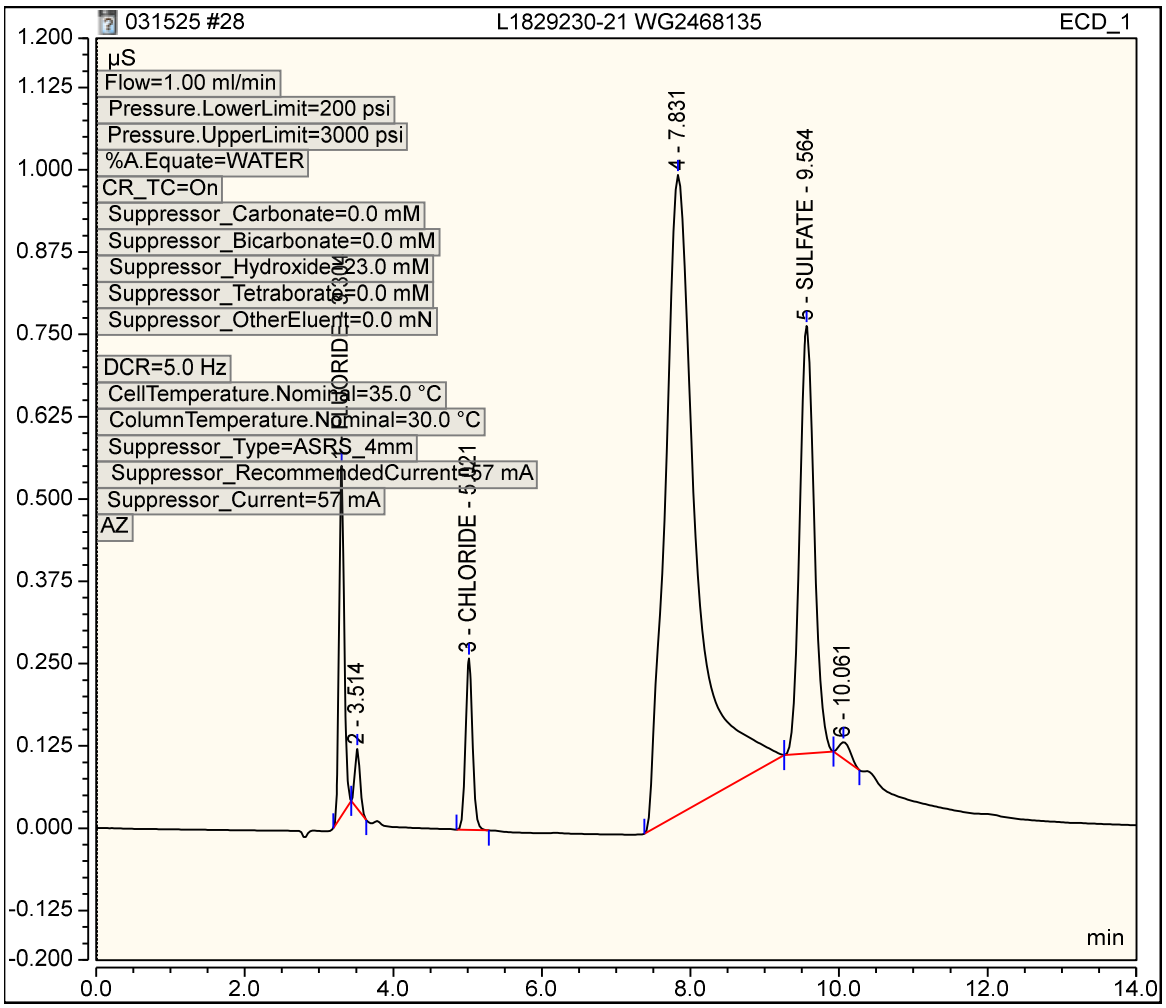
Sample Name:	**L1829230-05 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 19:32**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.032	0.406	0.0735
3	5.01	CHLORIDE	BMB	0.046	0.422	0.2145
5	9.57	SULFATE	bMb	0.130	0.567	0.3604
7	10.40	NITRATE	BMB	0.016	0.081	0.0204
		TOTAL:		0.22	1.48	0.67



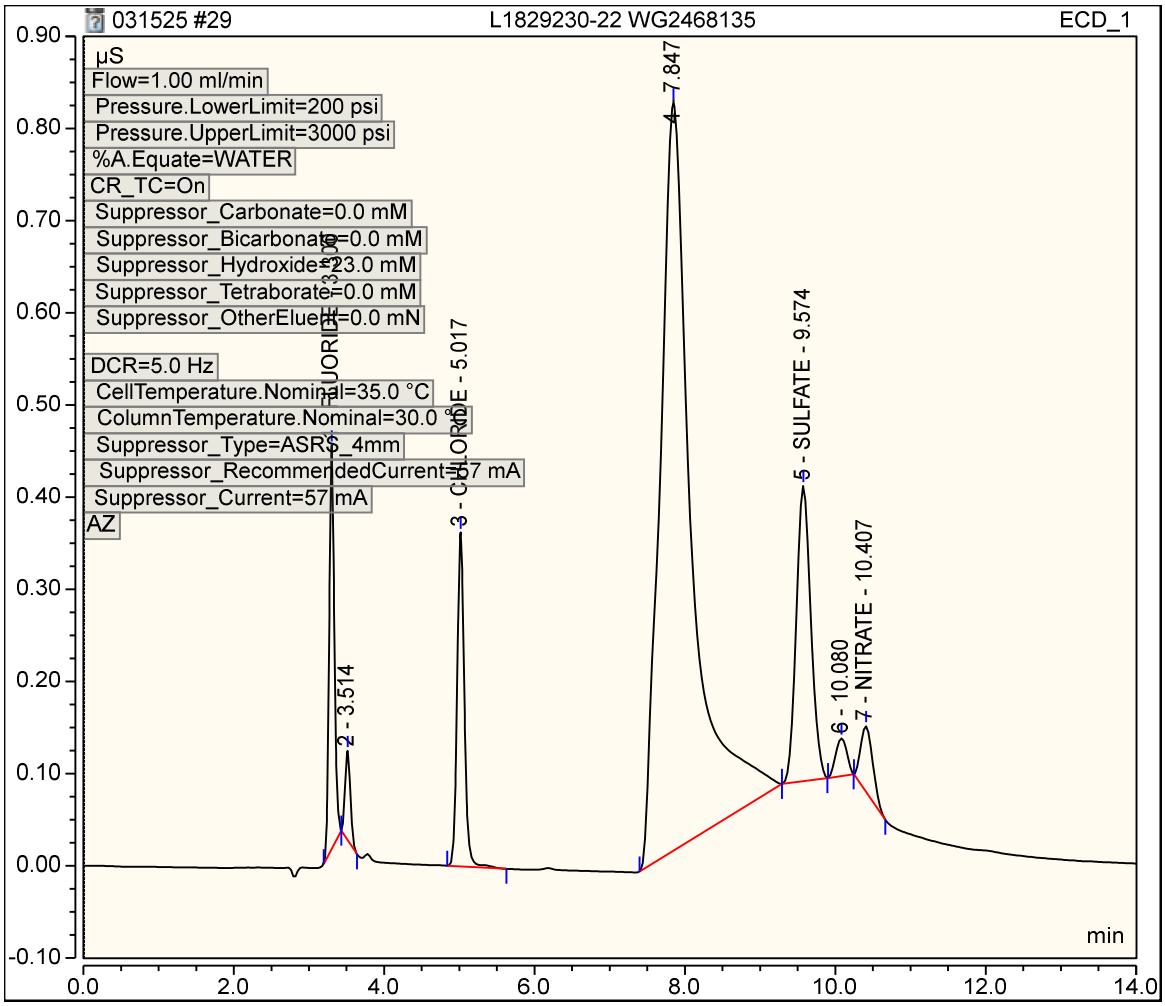
Sample Name:	**L1829230-21 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 19:49**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.042	0.531	0.1110
3	5.02	CHLORIDE	BMB	0.028	0.261	0.0850
5	9.56	SULFATE	bMb	0.147	0.649	0.5158
		TOTAL:		0.22	1.44	0.71



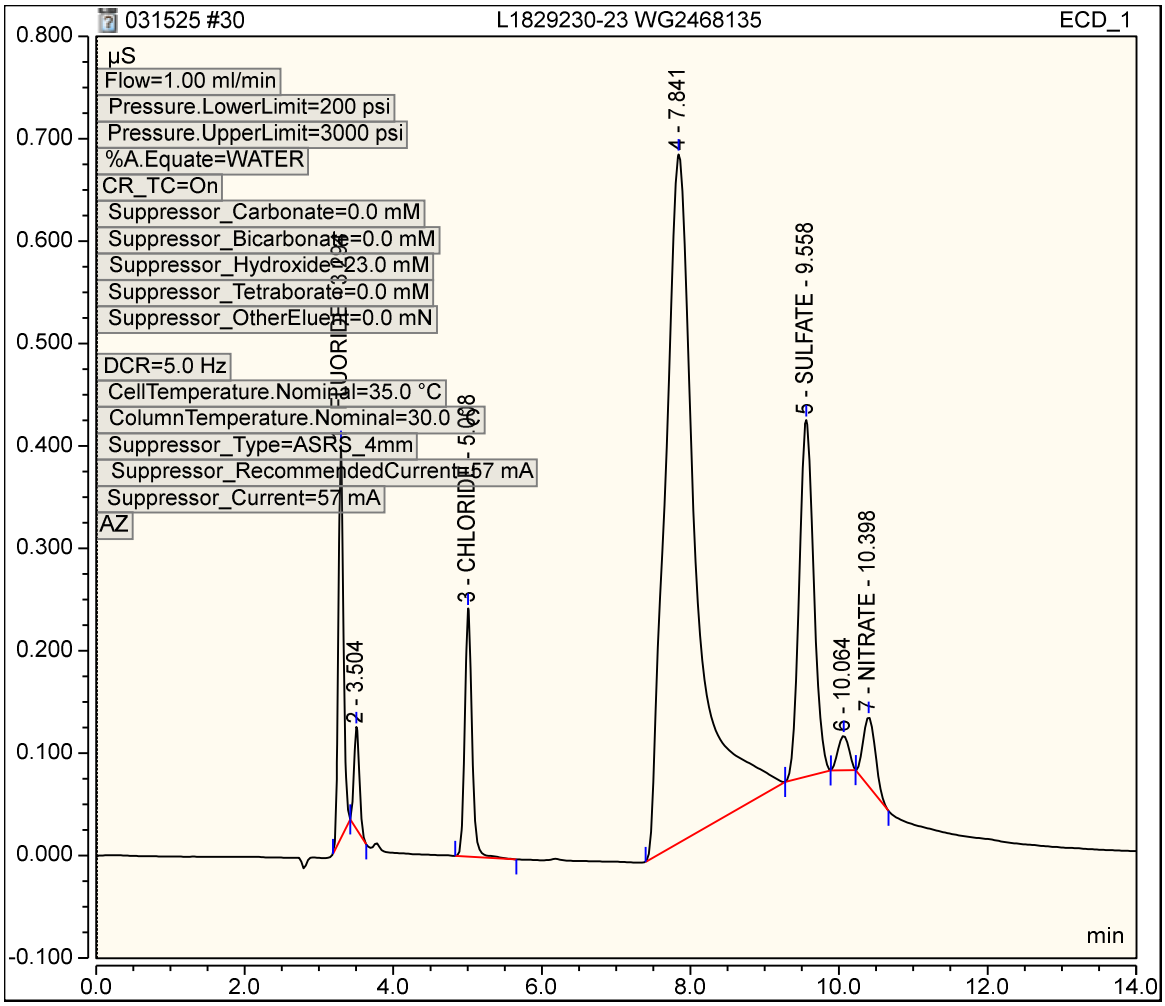
Sample Name:	**L1829230-22 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 20:06**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.035	0.438	0.0831
3	5.02	CHLORIDE	BMB	0.040	0.362	0.1699
5	9.57	SULFATE	bMB	0.072	0.320	n.a.
7	10.41	NITRATE	BMB	0.013	0.071	0.0143
		TOTAL:		0.16	1.19	0.27



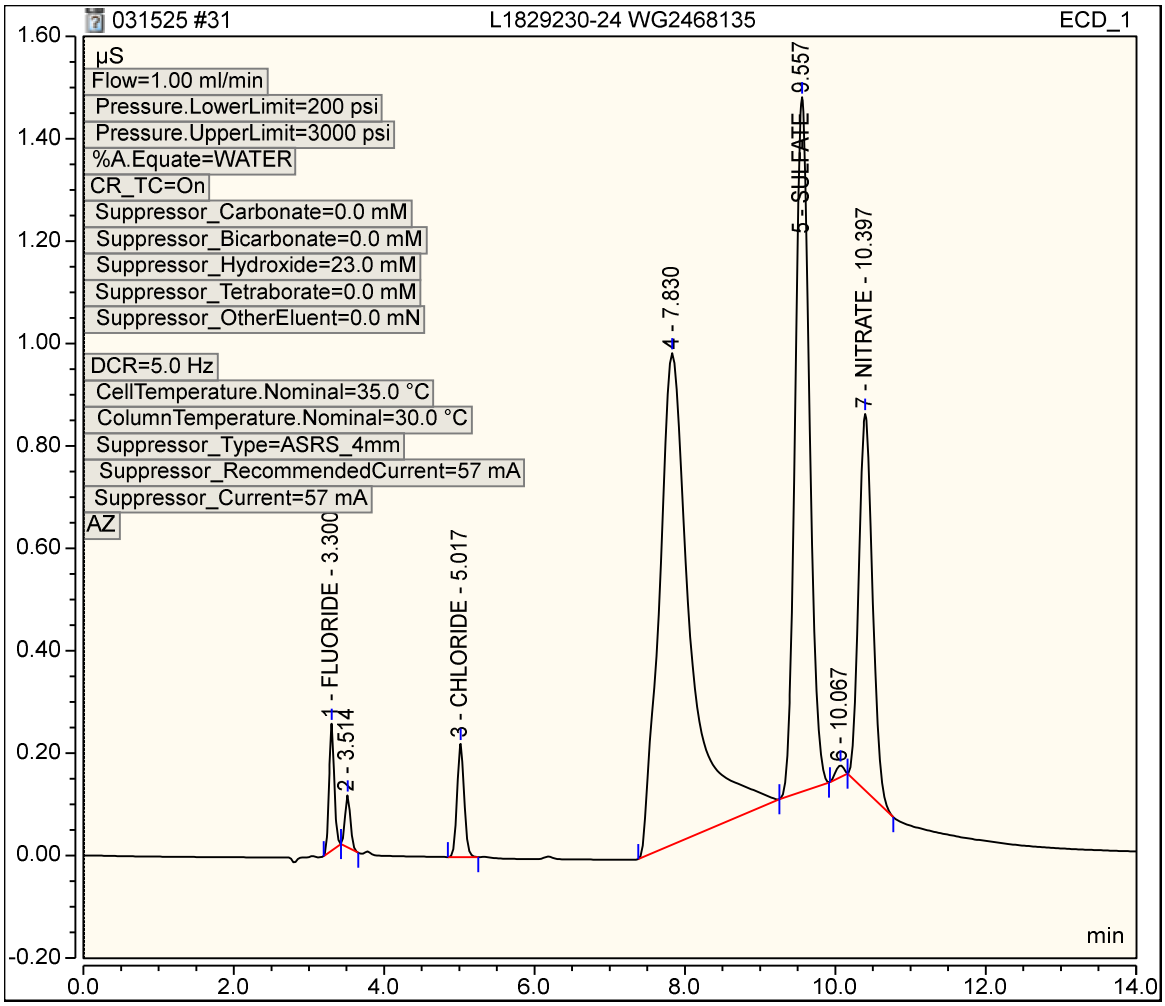
Sample Name:	**L1829230-23 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 20:23**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.030	0.383	0.0671
3	5.01	CHLORIDE	BMB	0.027	0.242	0.0796
5	9.56	SULFATE	bMB	0.079	0.348	n.a.
7	10.40	NITRATE	BMB	0.013	0.068	0.0133
		TOTAL:		0.15	1.04	0.16



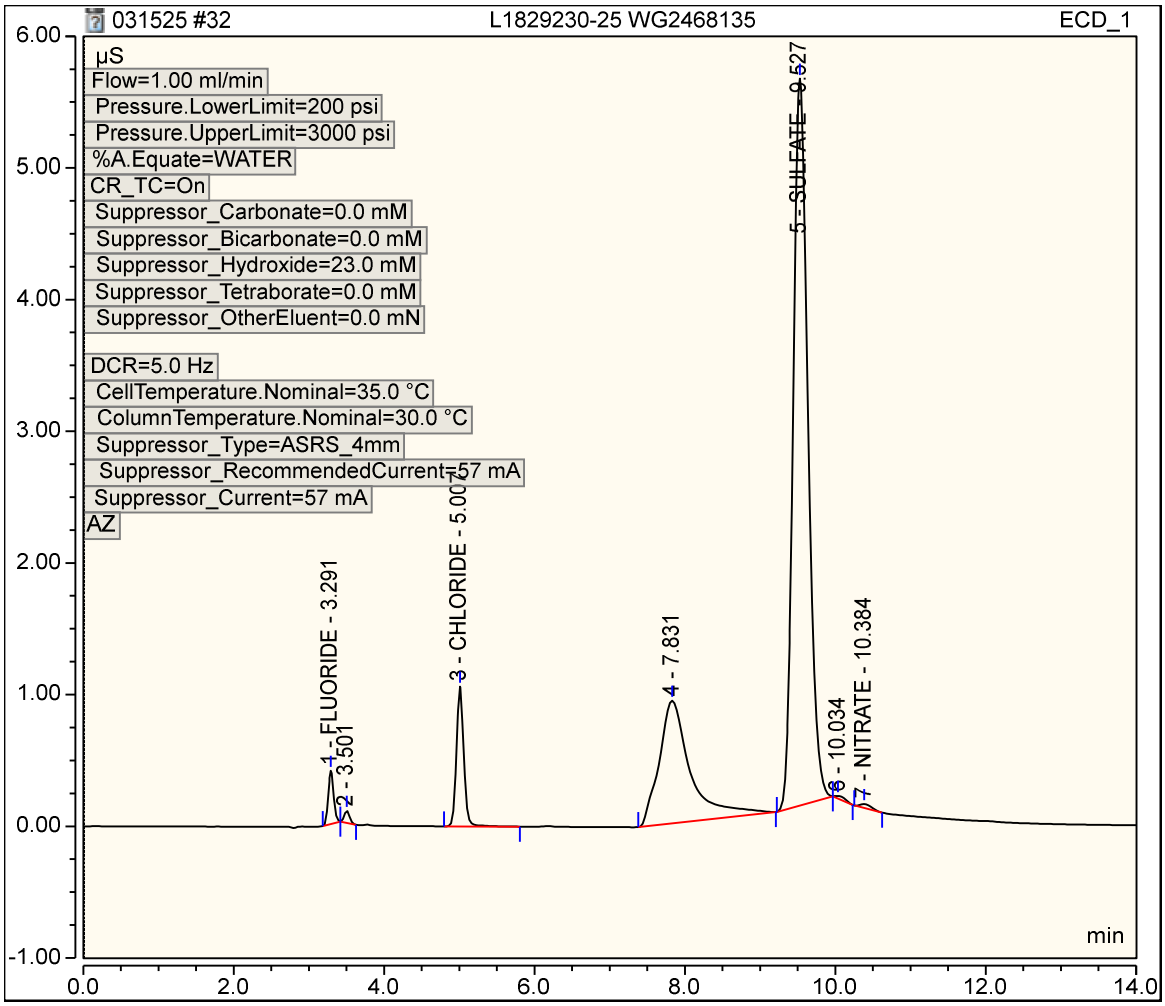
Sample Name:	**L1829230-24 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 20:40**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.019	0.248	0.0273
3	5.02	CHLORIDE	BMB	0.024	0.221	0.0549
5	9.56	SULFATE	BMB	0.301	1.356	1.9637
7	10.40	NITRATE	bMB	0.155	0.735	0.4156
		TOTAL:		0.50	2.56	2.46



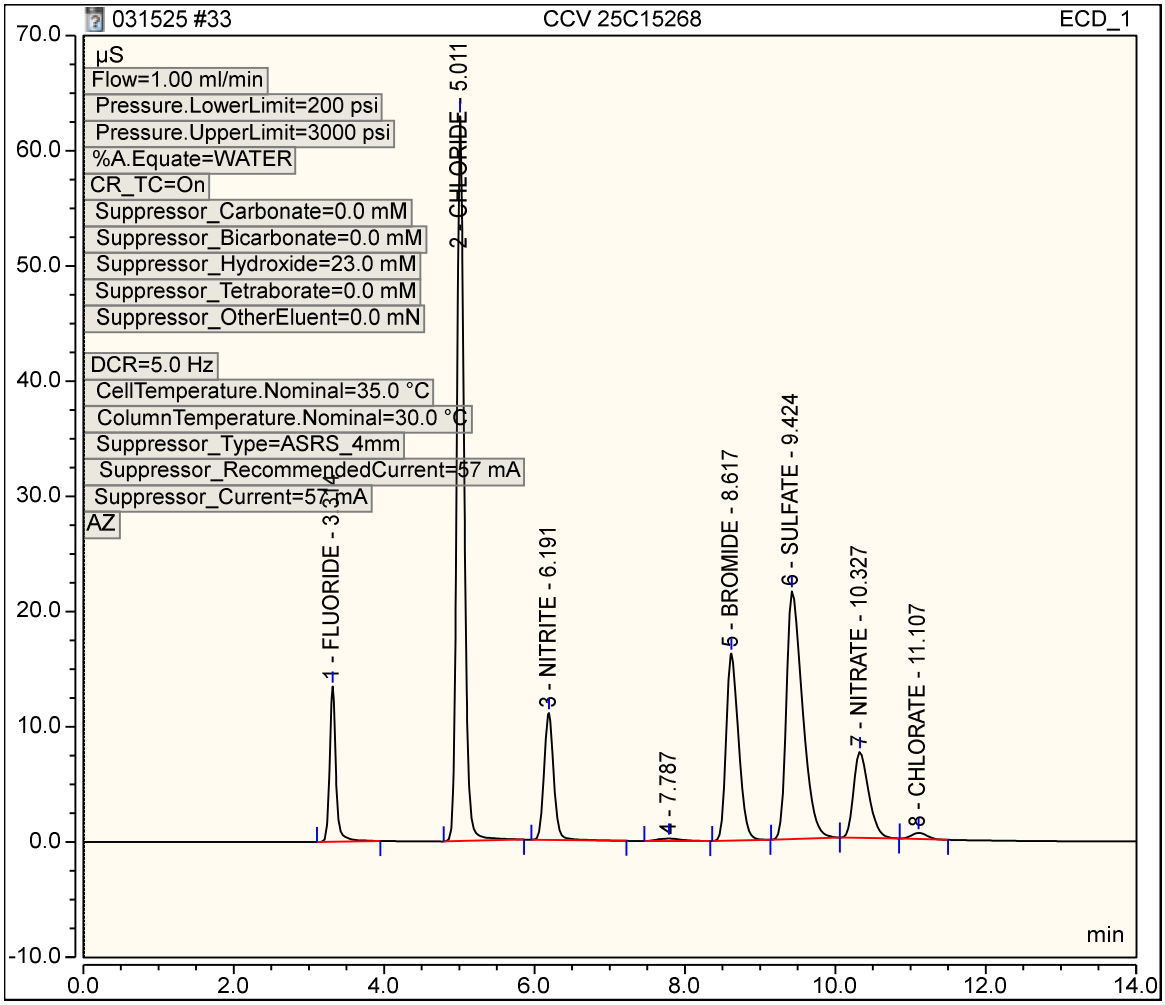
Sample Name:	**L1829230-25 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 20:57**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.032	0.405	0.0737
3	5.01	CHLORIDE	BMB	0.118	1.061	0.7136
5	9.53	SULFATE	BMb	1.260	5.520	10.9326
7	10.38	NITRATE	BMB	0.006	0.031	n.a.
		TOTAL:		1.42	7.02	11.72



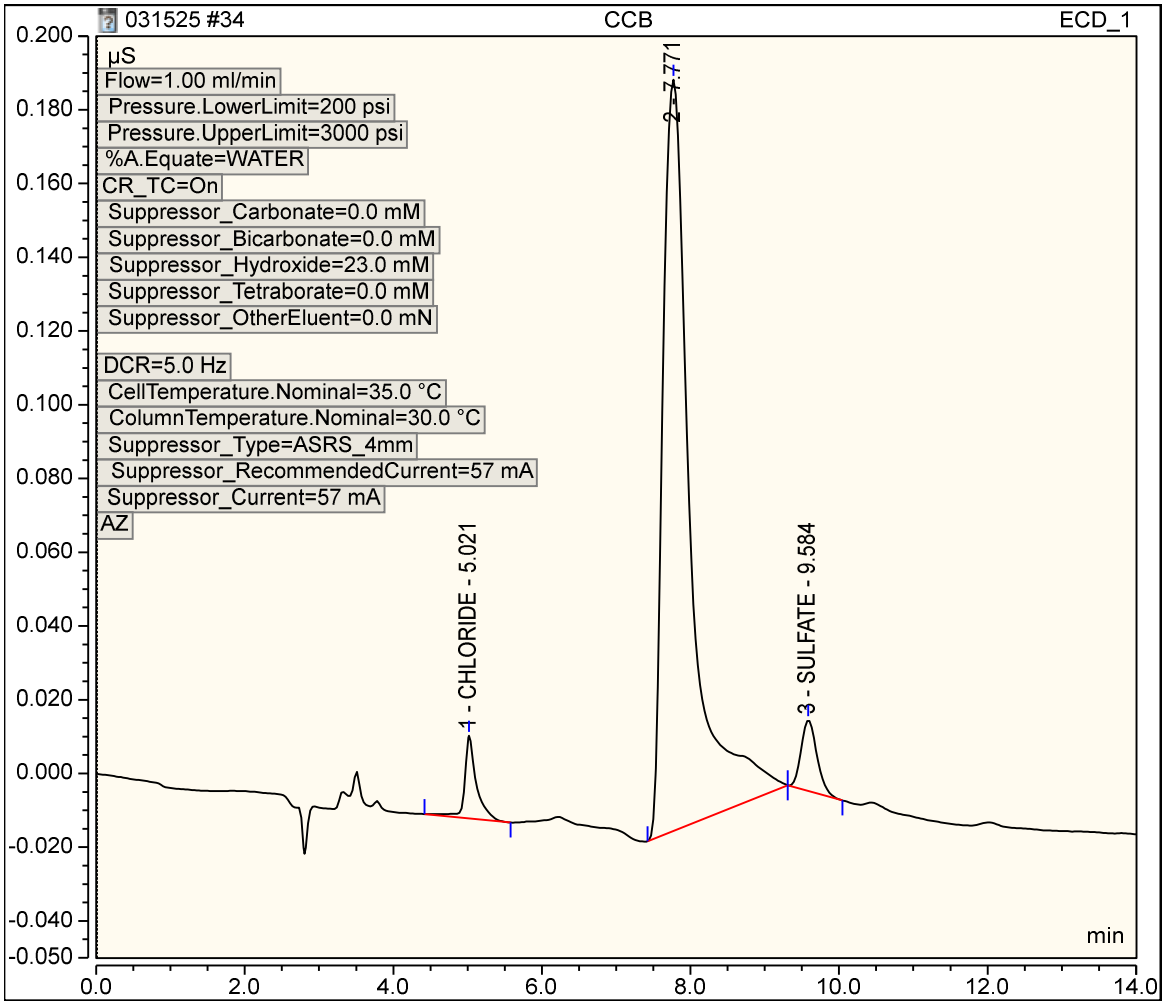
Sample Name:	**CCV 25C15268**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 21:13**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMB	1.297	13.487	4.7133
2	5.01	CHLORIDE	BMB	7.139	62.911	49.9138
3	6.19	NITRITE	BMB	1.639	11.030	4.9972
5	8.62	BROMIDE	BMB	3.078	16.246	49.7381
6	9.42	SULFATE	BMb	5.403	21.537	49.6688
7	10.33	NITRATE	bMB	1.744	7.450	4.9097
8	11.11	CHLORATE	BMB	0.125	0.524	2.6168
		TOTAL:		20.42	133.19	166.56



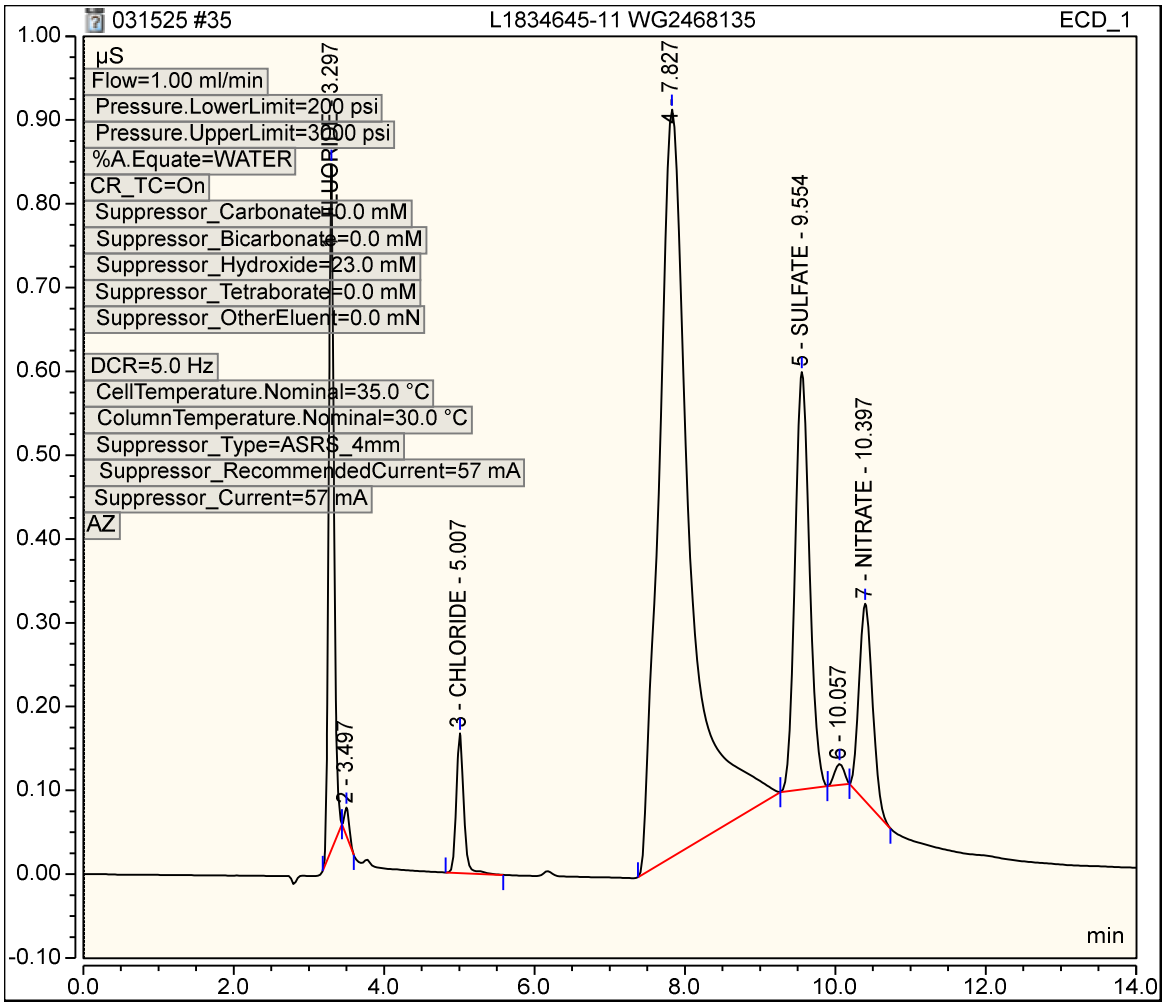
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 21:34**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	5.02	CHLORIDE	BMB	0.004	0.022	n.a.
3	9.58	SULFATE	bMB	0.005	0.019	n.a.
		TOTAL:		0.01	0.04	0.00



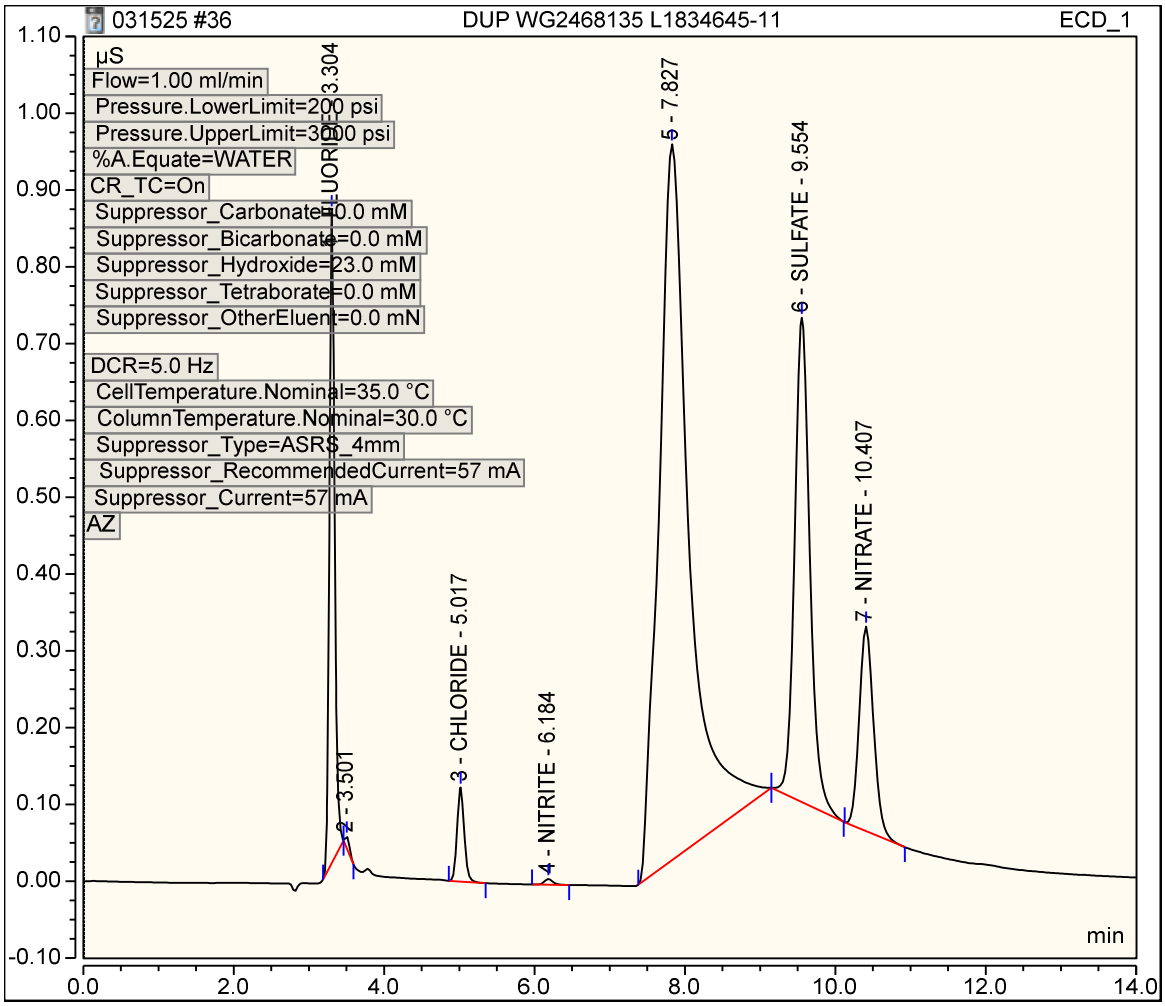
Sample Name:	**L1834645-11 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 21:50**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.066	0.818	0.1985
3	5.01	CHLORIDE	BMB	0.019	0.167	0.0215
5	9.55	SULFATE	bMB	0.112	0.498	0.1904
7	10.40	NITRATE	bMB	0.049	0.235	0.1139
		TOTAL:		0.25	1.72	0.52



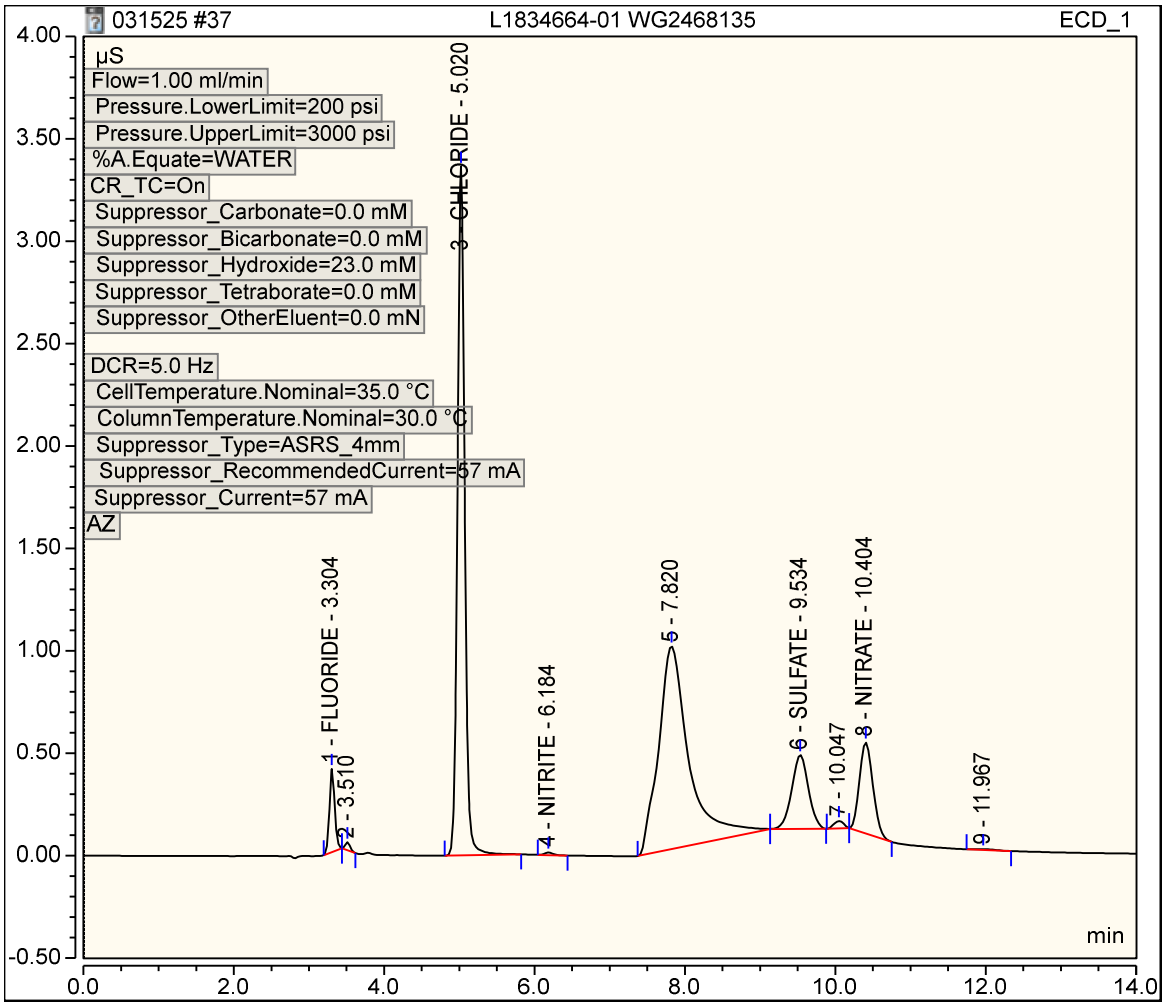
Sample Name:	**DUP WG2468135 L1834645-11**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 22:07**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.069	0.850	0.2093
3	5.02	CHLORIDE	BMB	0.013	0.123	n.a.
4	6.18	NITRITE	BMB	0.001	0.007	n.a.
6	9.55	SULFATE	bMB	0.149	0.631	0.5393
7	10.41	NITRATE	BMB	0.059	0.266	0.1434
		TOTAL:		0.29	1.88	0.89



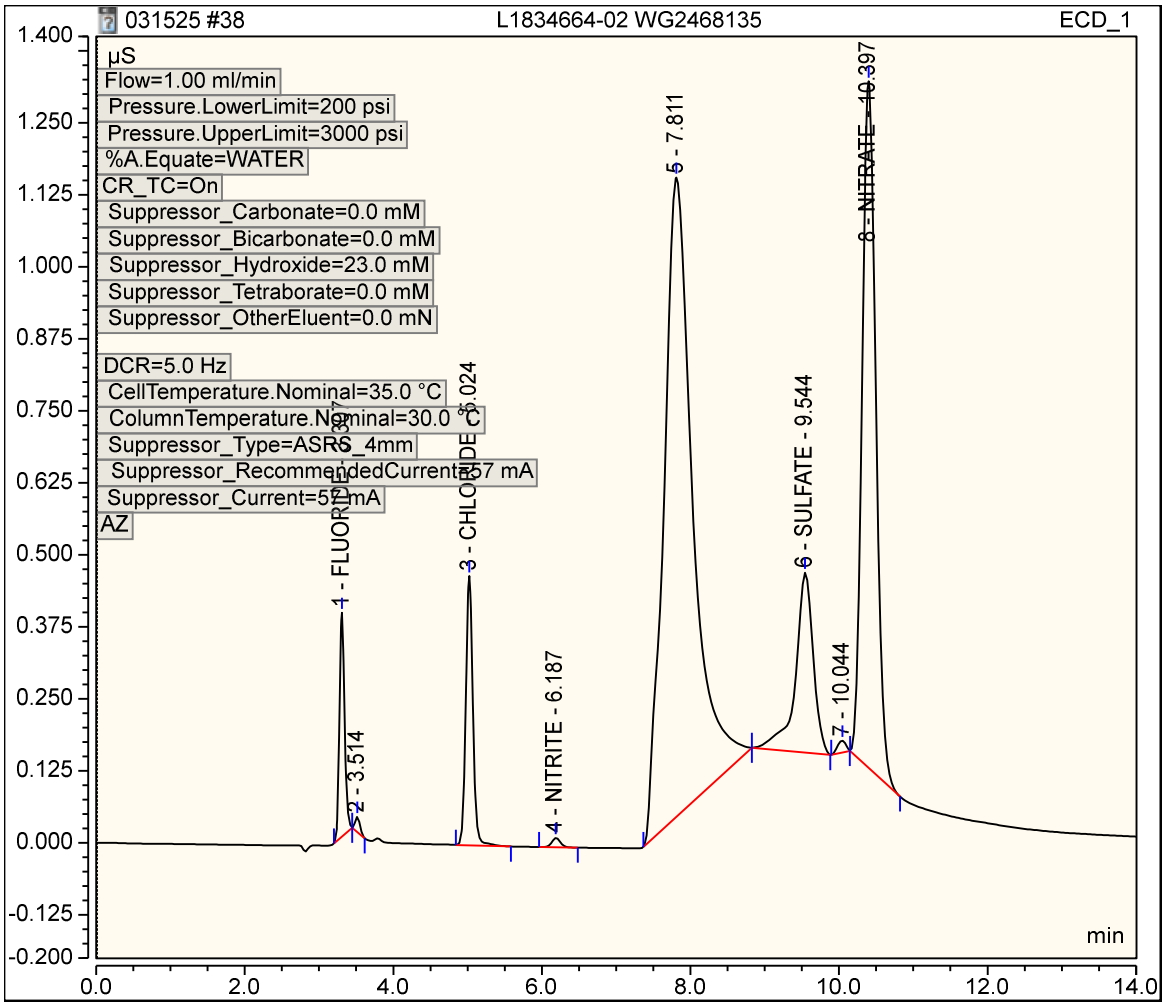
Sample Name:	**L1834664-01 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 22:24**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.033	0.407	0.0753
3	5.02	CHLORIDE	BMB	0.374	3.363	2.5103
4	6.18	NITRITE	BMB	0.002	0.013	n.a.
6	9.53	SULFATE	bMB	0.093	0.361	0.0178
8	10.40	NITRATE	bMB	0.092	0.445	0.2378
		TOTAL:		0.59	4.59	2.84



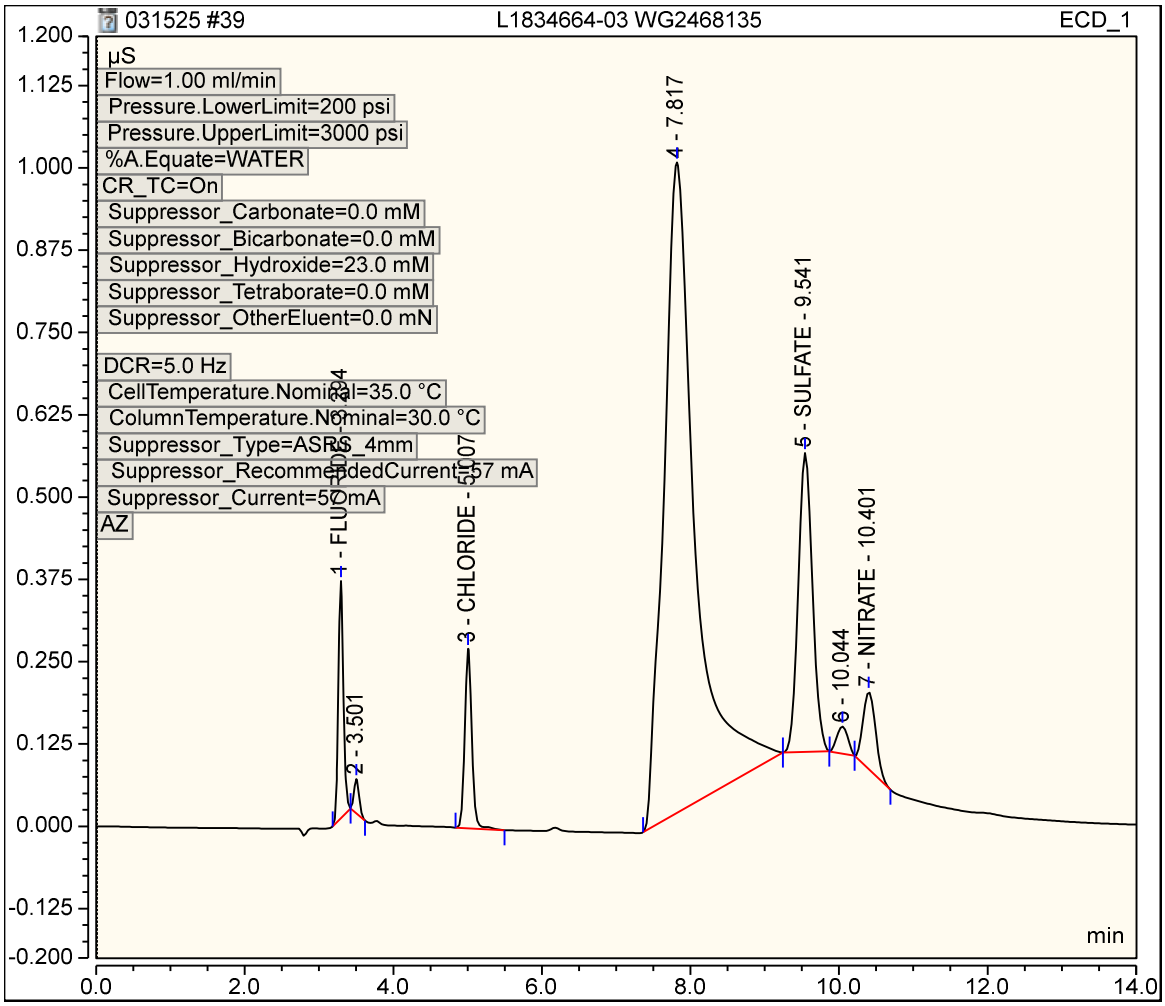
Sample Name:	**L1834664-02 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 22:41**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMb	0.031	0.389	0.0697
3	5.02	CHLORIDE	BMB	0.051	0.467	0.2475
4	6.19	NITRITE	BMB	0.002	0.016	n.a.
6	9.54	SULFATE	bMB	0.087	0.312	n.a.
8	10.40	NITRATE	BMB	0.255	1.191	0.6979
		TOTAL:		0.43	2.38	1.02



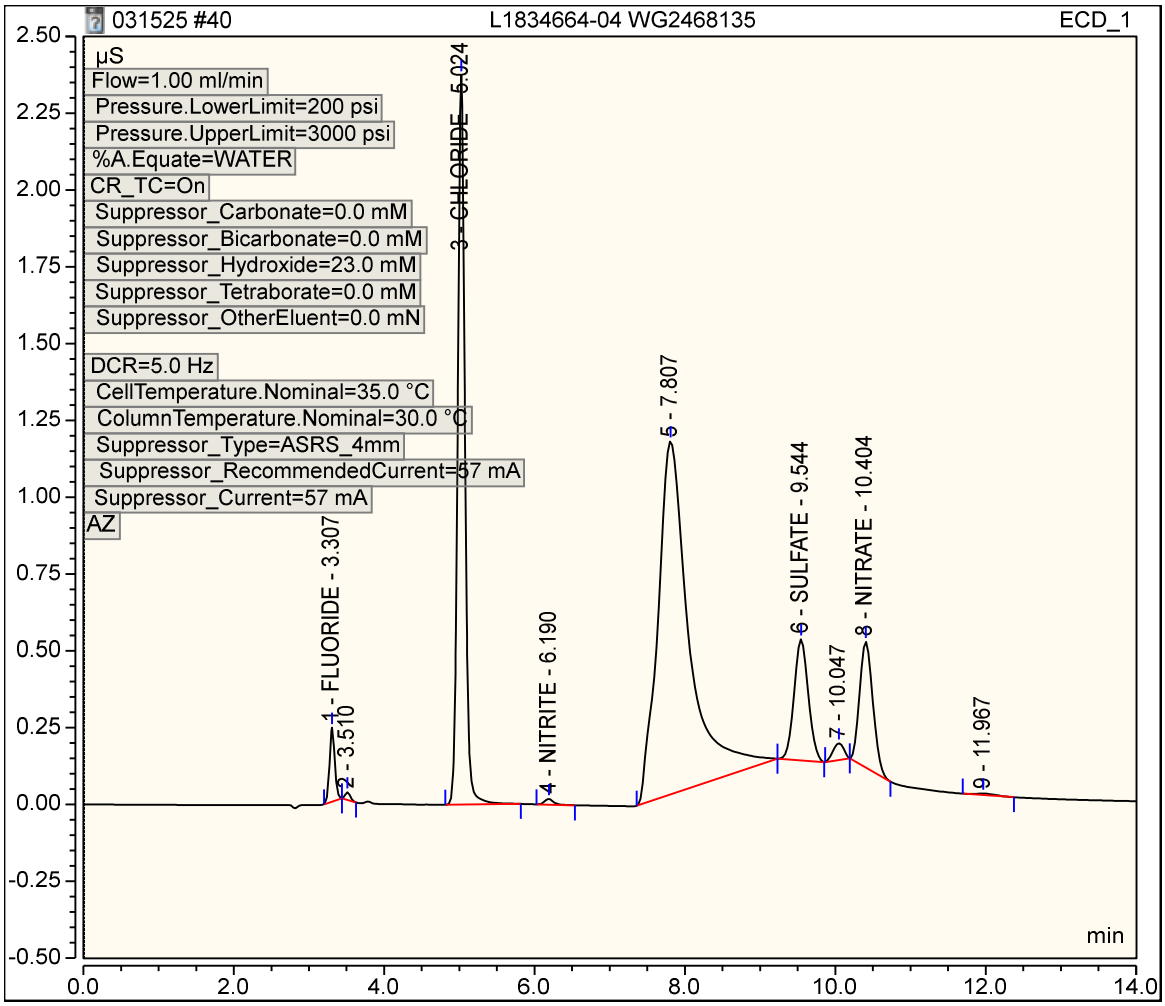
Sample Name:	**L1834664-03 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 22:58**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.029	0.360	0.0607
3	5.01	CHLORIDE	BMB	0.030	0.273	0.0981
5	9.54	SULFATE	bMB	0.101	0.454	0.0913
7	10.40	NITRATE	bMB	0.023	0.117	0.0421
		TOTAL:		0.18	1.20	0.29



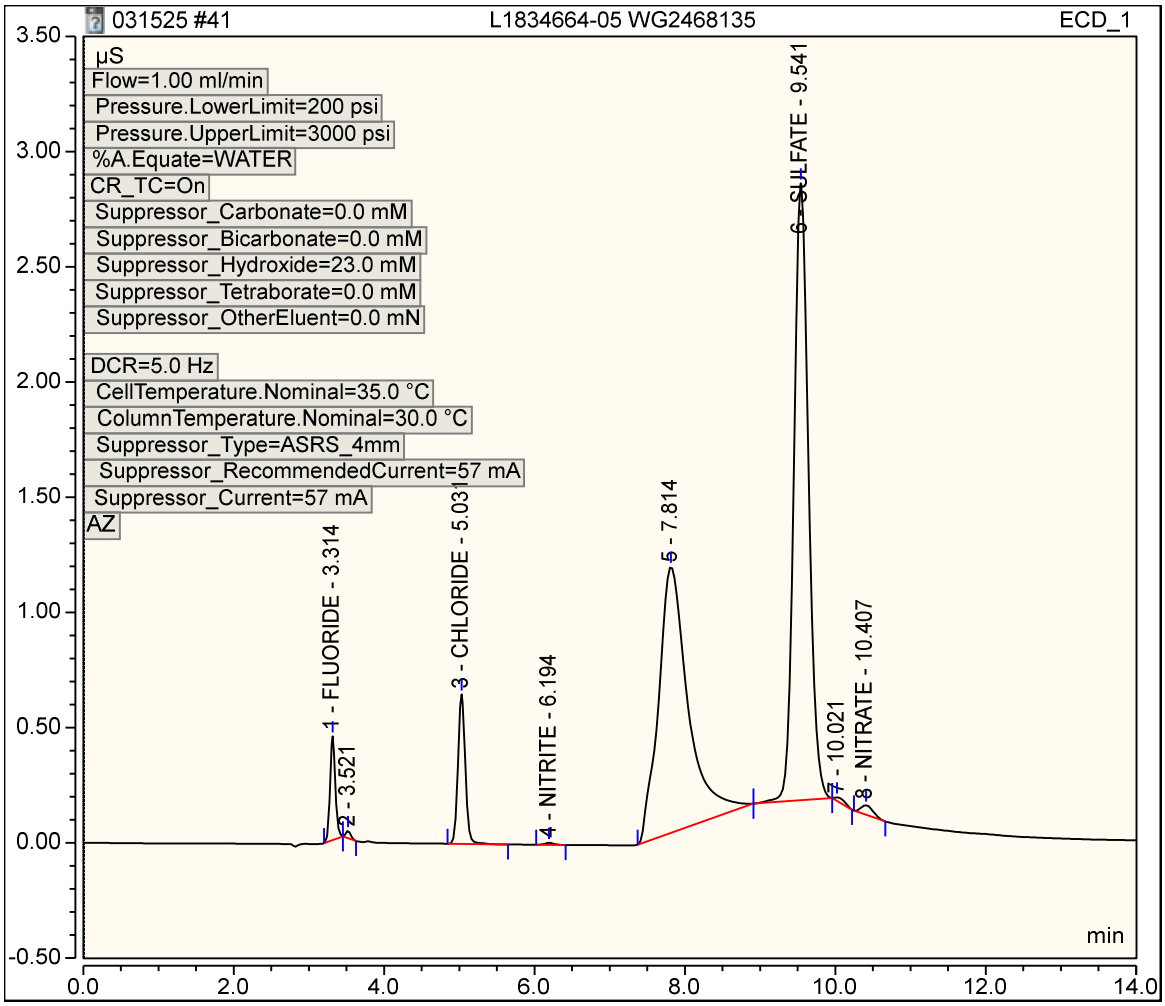
Sample Name:	**L1834664-04 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 23:15**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMb	0.019	0.241	0.0254
3	5.02	CHLORIDE	BMB	0.263	2.375	1.7341
4	6.19	NITRITE	BMB	0.003	0.019	n.a.
6	9.54	SULFATE	bMB	0.087	0.394	n.a.
8	10.40	NITRATE	bMB	0.084	0.410	0.2135
		TOTAL:		0.46	3.44	1.97



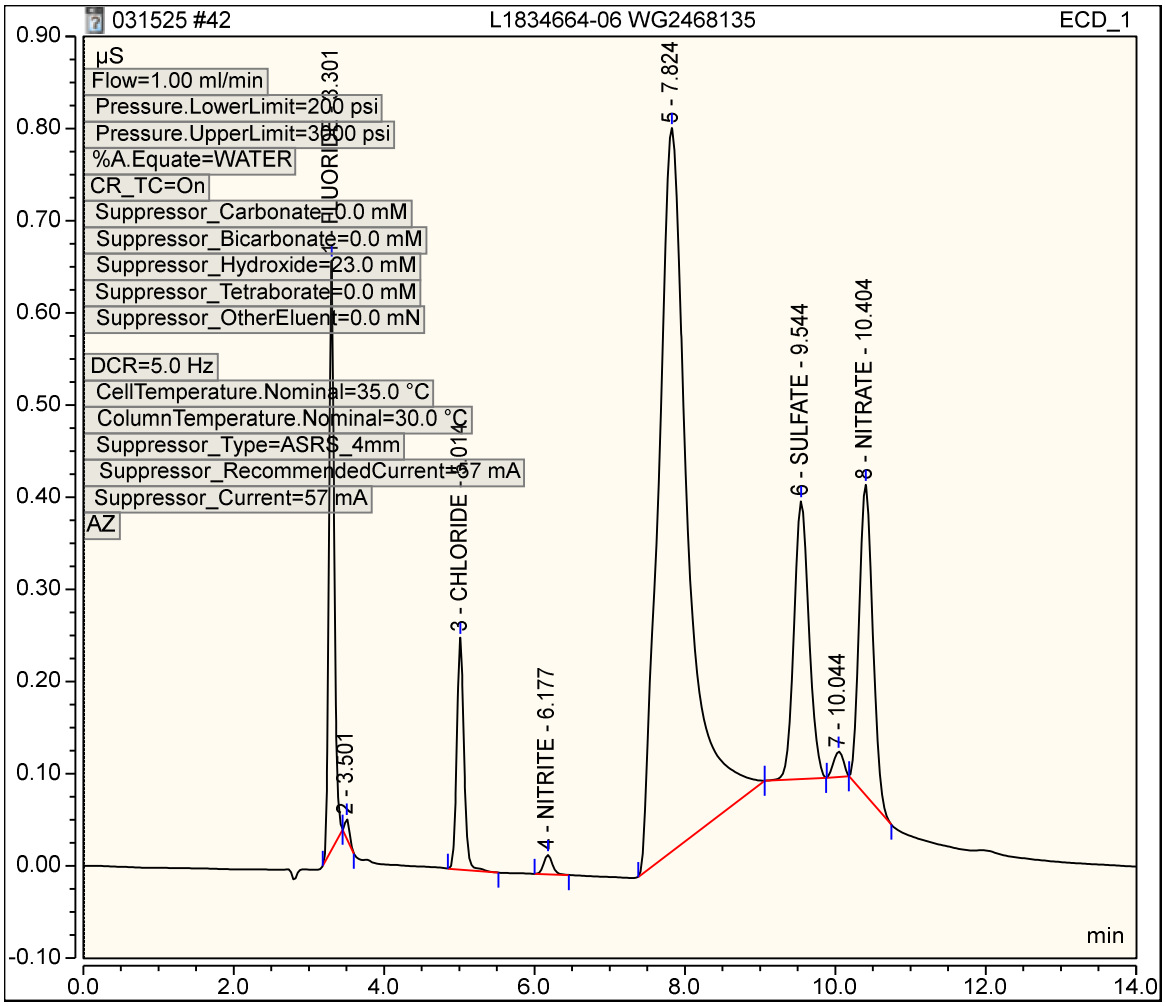
Sample Name:	**L1834664-05 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 23:32**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMb	0.036	0.451	0.0880
3	5.03	CHLORIDE	BMB	0.071	0.649	0.3863
4	6.19	NITRITE	BMB	0.001	0.009	n.a.
6	9.54	SULFATE	bMb	0.607	2.677	4.8182
8	10.41	NITRATE	BMB	0.008	0.041	n.a.
		TOTAL:		0.72	3.83	5.29



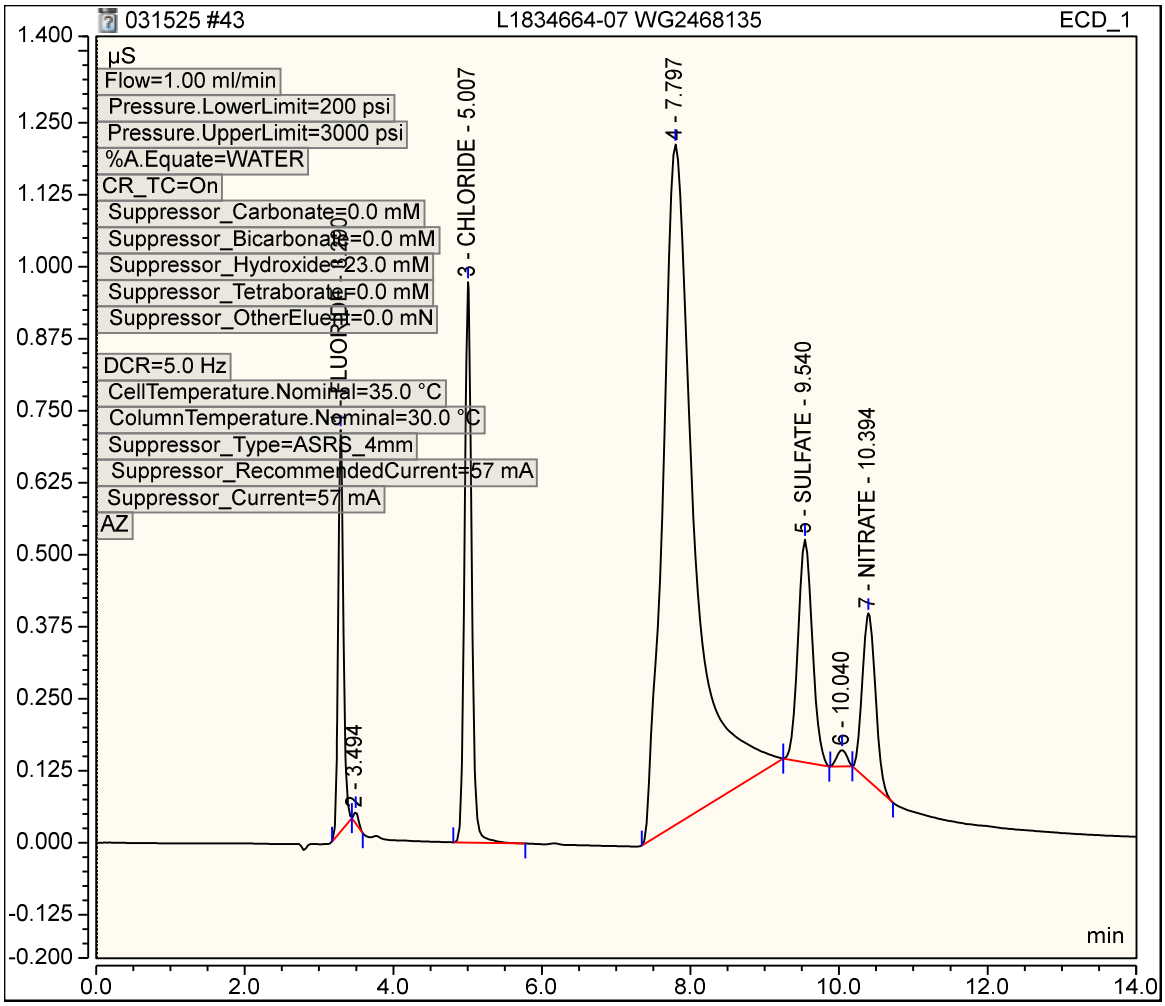
Sample Name:	**L1834664-06 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/15/25 23:48**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMb	0.052	0.640	0.1451
3	5.01	CHLORIDE	BMB	0.028	0.252	0.0822
4	6.18	NITRITE	BMB	0.003	0.021	n.a.
6	9.54	SULFATE	bMB	0.070	0.302	n.a.
8	10.40	NITRATE	BMB	0.070	0.337	0.1750
		TOTAL:		0.22	1.55	0.40



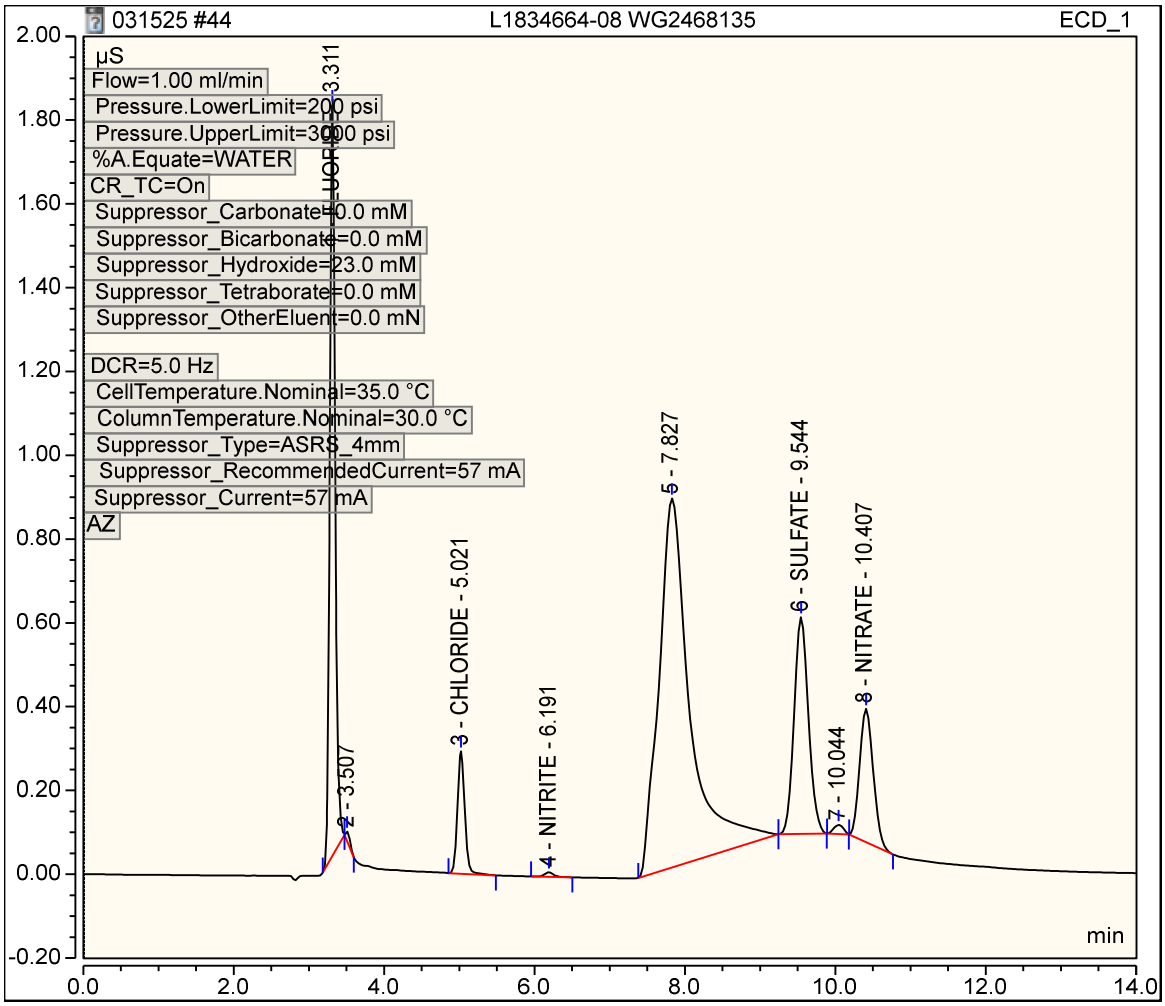
Sample Name:	**L1834664-07 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/16/25 00:05**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.29	FLUORIDE	BMb	0.056	0.697	0.1623
3	5.01	CHLORIDE	BMB	0.107	0.973	0.6410
5	9.54	SULFATE	bMB	0.086	0.387	n.a.
7	10.39	NITRATE	bMB	0.060	0.290	0.1455
		TOTAL:		0.31	2.35	0.95



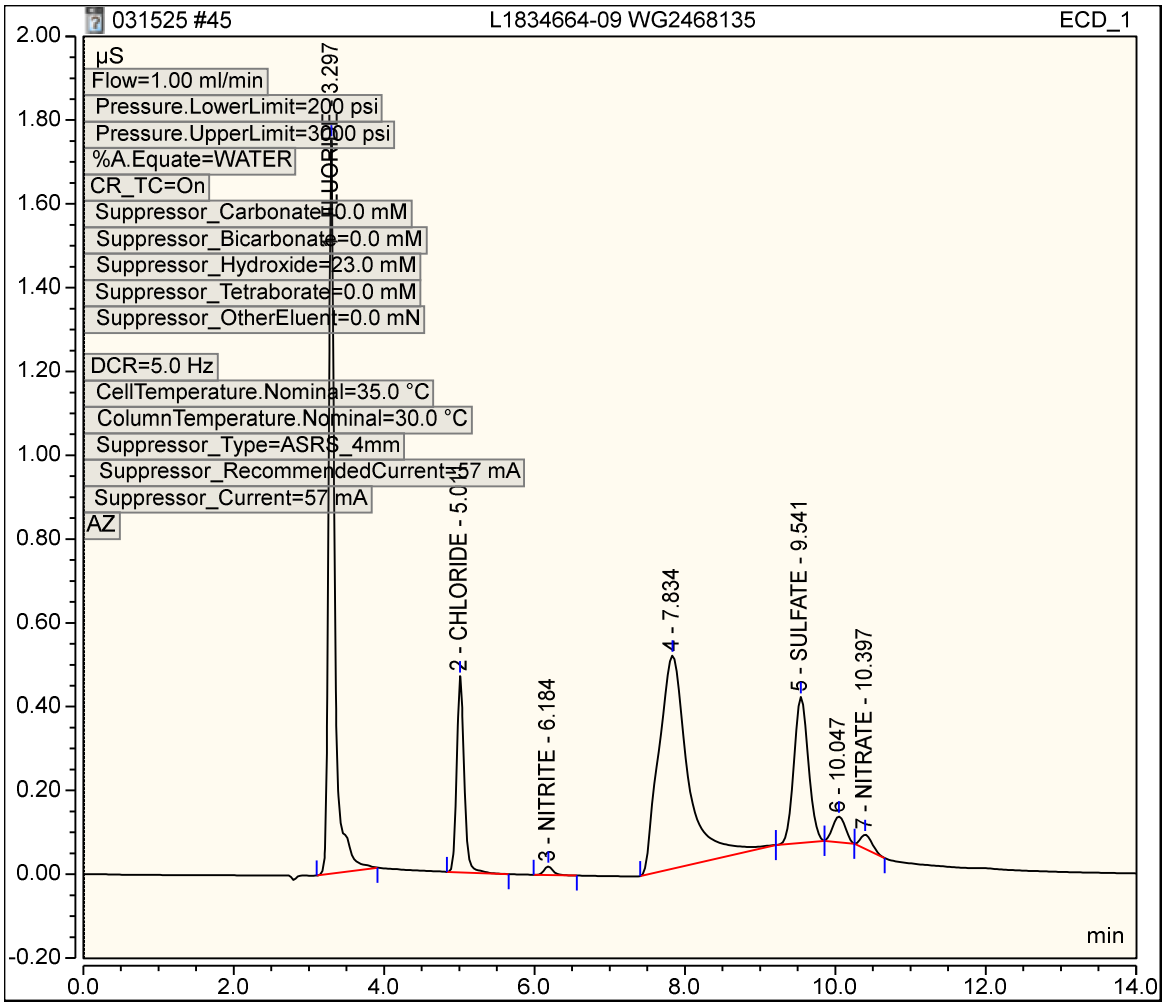
Sample Name:	**L1834664-08 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/16/25 00:22**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.31	FLUORIDE	BMb	0.147	1.793	0.4958
3	5.02	CHLORIDE	BMB	0.032	0.292	0.1132
4	6.19	NITRITE	BMB	0.002	0.011	n.a.
6	9.54	SULFATE	bMB	0.115	0.518	0.2221
8	10.41	NITRATE	BMB	0.067	0.318	0.1652
		TOTAL:		0.36	2.93	1.00



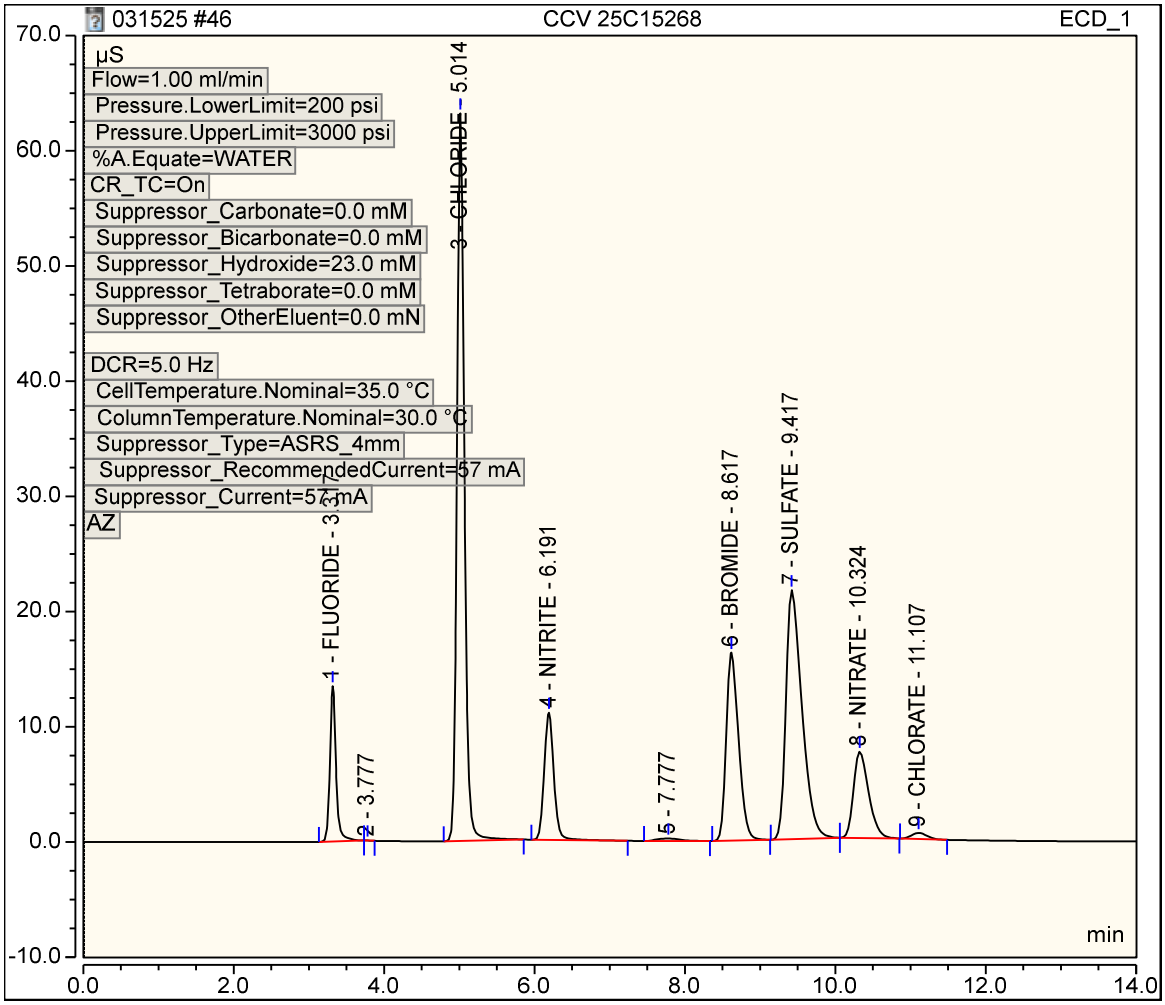
Sample Name:	**L1834664-09 WG2468135**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/16/25 00:39**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.30	FLUORIDE	BMB	0.168	1.751	0.5725
2	5.01	CHLORIDE	BMB	0.053	0.468	0.2597
3	6.18	NITRITE	BMB	0.003	0.021	n.a.
5	9.54	SULFATE	bMb	0.078	0.348	n.a.
7	10.40	NITRATE	BMB	0.006	0.034	n.a.
		TOTAL:		0.31	2.62	0.83



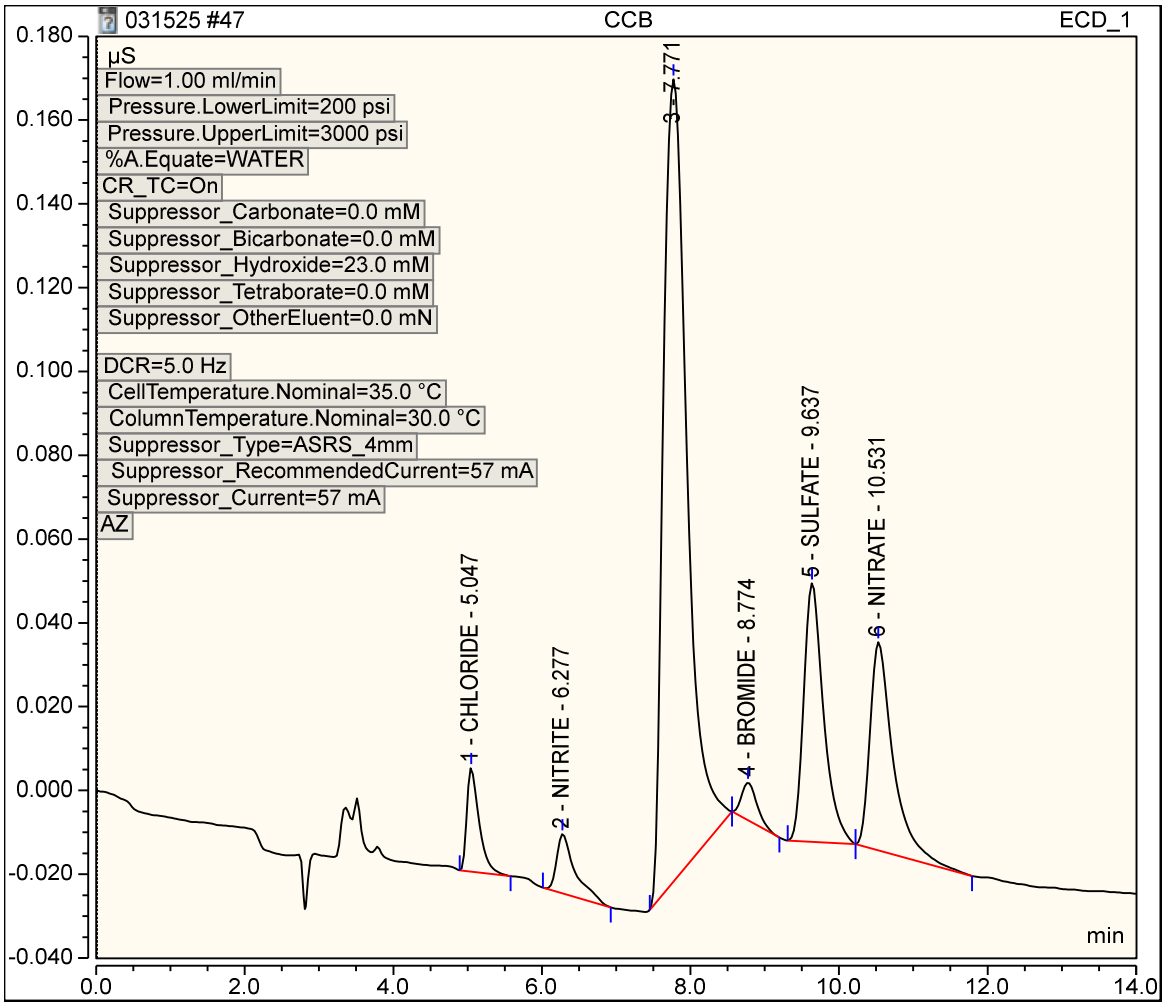
Sample Name:	**CCV 25C15268**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/16/25 00:56**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.32	FLUORIDE	BMb	1.271	13.491	4.6169
3	5.01	CHLORIDE	BMB	7.158	63.159	50.0435
4	6.19	NITRITE	BMB	1.645	11.050	5.0151
6	8.62	BROMIDE	BMB	3.087	16.310	49.8962
7	9.42	SULFATE	BMb	5.368	21.599	49.3445
8	10.32	NITRATE	bMB	1.755	7.500	4.9412
9	11.11	CHLORATE	BMB	0.124	0.522	2.5903
		TOTAL:		20.41	133.63	166.45



Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC-11 Anions**	*Operator:*	**WETLABIC22**
		Comments:	
Inj. Date/Time:	**03/16/25 01:13**	*Run Time:*	**14.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	5.05	CHLORIDE	BMB	0.005	0.025	n.a.
2	6.28	NITRITE	BMB	0.004	0.014	n.a.
4	8.77	BROMIDE	bMB	0.002	0.009	n.a.
5	9.64	SULFATE	BMb	0.019	0.062	n.a.
6	10.53	NITRATE	bMB	0.018	0.050	0.0278
		TOTAL:		0.05	0.16	0.03



ANION SS WetChem Prep Benchsheet

Batch: WG2468135

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1829230	WG2466939	BJM688	PREPREPBAL4	12-MAR-25
L1834645	WG2466977	BJM688	PREPREPBAL4	03/14/25 13:48:54
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25

Analyst: CDV4241 **Analyst 2:** NA___ **Analyst 3:** NA___ **Prep Start Date/Time:** 03/15/25 10:12-10:15 **Prep End Date/Time:** 03/15/25 15:43 **SOP:** 0155
Method: 9056 **Balance ID:** IC BAL 1 **CentrifugeTube Lot#:** E2402376 **Eluent ID:** 240991838015 **Syringe Lot#:** 241125 **0.45 Filter Lot#:** 0000376291
0.2 Filter Lot#: N/A **1mL Auto Pipette SN:** VU22950 **1mL Auto Pipette Tip Lot#:** 25040320 **5mL Pipette Lot#:** N/A **10mL Pipette Lot#:** N/A
Dilution Tube Lot#: N/A **Chloride Strip Lot#:** 5052A **Sulfate Strip Lot#:** 052J521-DD **Phosphate Strip Lot#:** N/A **NO3/NO2 Strip Lot#:** 431303
IC Cap/Vial Lot#: 3250-18348 / LV24071515-5031-IM **Tongue Depressor:** N/A **pH strip Lot #:** 10BDH2221

Anion Standard (LCS/LCSD): 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26 **Chlorate (LCS/LCSD):** 25C12882 Amt. Used: 0.25 mL Exp. Date:04/12/25
Anion Standard (MS/MSD): 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26 **Chlorate (MS/MSD):** 25C12882 Amt. Used: 0.25 mL Exp. Date:04/12/25
Sand: 24J24235 Amt. Used: 5 g Exp. Date:04/24/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Dilution Factor	Prep Factor	Prep Ratio	Chloride Strip Dil.	NO2/NO3 Strip Dil.	Sulfate Strip Dil.	Sample pH	pH Dilution	Review Analyst	Review Date
BLANK	5	50	1	10	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
LCS	5	50	1	10	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
DUP(L1829230-04)	4.92	50	1	10.16	1.02	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
DUP(L1834645-11)	5.15	50	1	9.71	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
MS(L1829230-04)	4.90	50	1	10.2	1.02	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
MSD(L1829230-04)	4.88	50	1	10.25	1.03	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
1. L1829230-01	4.95	50	1	10.1	1.01	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
2. L1829230-02	4.94	50	1	10.12	1.01	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
3. L1829230-03	4.88	50	1	10.25	1.03	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
4. L1829230-04	4.92	50	1	10.16	1.02	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
5. L1829230-05	4.99	50	1	10.02	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
6. L1829230-21	5.15	50	1	9.71	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
7. L1829230-22	5.16	50	1	9.69	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
8. L1829230-23	5.12	50	1	9.77	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
9. L1829230-24	5.14	50	1	9.73	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
10. L1829230-25	4.82	50	1	10.37	1.04	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
11. L1834645-11	5.05	50	1	9.9	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
12. L1834664-01	4.98	50	1	10.04	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
13. L1834664-02	5.02	50	1	9.96	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
14. L1834664-03	5.09	50	1	9.82	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
15. L1834664-04	4.97	50	1	10.06	1.01	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
16. L1834664-05	5.11	50	1	9.78	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
17. L1834664-06	5.09	50	1	9.82	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
18. L1834664-07	5.03	50	1	9.94	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
19. L1834664-08	5	50	1	10	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24
20. L1834664-09	5.06	50	1	9.88	1	1x	1x	1x	7	1x	MDM3917	03/16/25 03:26:24

Comments:
IC-11 031525 Run. ICV-25C15268. RL- 25C15269. Eluent: 240991838015.

Reviewed By:MDM3917 on 03/16/25 03:26:24

ANION SS WetChem Prep Benchsheet

Batch: WG2469046

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834441	WG2467751	KMT967	PREPREPBAL3	13-MAR-25
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25
L1834933	WG2467797	CMW844	PREPREPBAL4	12-MAR-25
L1835123	WG2467776	KMT967	PREPREPBAL2	12-MAR-25
L1835396	WG2468766	KMT967	PREPREPBAL3	13-MAR-25
L1835412	WG2468254	CLC4087	PREPREPBAL2	13-MAR-25
L1835452	WG2468821	KMT967	PREPREPBAL3	14-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25

Analyst: SAR4253 **Analyst 2:** NA___ **Analyst 3:** NA___ **Prep Start Date/Time:** 03/16/25 19:57 **Prep End Date/Time:** 03/16/25 22:58 **SOP:** 0155 **Method:** 9056
Balance ID: WETBAL3 **CentrifugeTube Lot#:** E24053JA **Eluent ID:** 241291398014 **Syringe Lot#:** 241125 **0.45 Filter Lot#:** 00360227-6 **0.2 Filter Lot#:** NA
1mL Auto Pipette SN: VU22950 **1mL Auto Pipette Tip Lot#:** 25010027 **5mL Pipette Lot#:** NA **10mL Pipette Lot#:** NA **Dilution Tube Lot#:** LV24080204-5030-MI
Chloride Strip Lot#: A5009A **Sulfate Strip Lot#:** 012L415-KK **Phosphate Strip Lot#:** NA **NO3/NO2 Strip Lot#:** 431303
IC Cap/Vial Lot#: 3250-18348/LV24071515-5031-IM **Tongue Depressor:** NA **pH strip Lot #:** 10BDH47241

Anion Standard (LCS/LCSD): 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26 **Chlorate (LCS/LCSD):** 25C16364 Amt. Used: 1.25 mL Exp. Date:04/12/25
Anion Standard (MS/MSD): 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26 **Chlorate (MS/MSD):** 25C16364 Amt. Used: 1.25 mL Exp. Date:04/12/25
Sand: 25B03887 Amt. Used: 5 g Exp. Date:02/03/26

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Dilution Factor	Prep Factor	Prep Ratio	Chloride Strip Dil.	NO2/NO3 Strip Dil.	Sulfate Strip Dil.	Sample pH	pH Dilution	Review Analyst	Review Date
BLANK	5	50	1	10	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
LCS	5	50	1	10	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
DUP(L1835396-02)	5.12	50	1	9.77	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
DUP(L1835412-01)	4.99	50	1	10.02	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
MS(L1835412-01)	4.9	50	1	10.2	1.02	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
MSD(L1835412-01)	4.92	50	1	10.16	1.02	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
1. L1834441-01	5.05	50	1	9.9	1	1x	5x	1x	7	1x	GEB3921	03/17/25 13:15:03
2. L1834664-10	5.14	50	1	9.73	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
3. L1834664-11	5.01	50	1	9.98	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
4. L1834933-01	4.90	50	1	10.2	1.02	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
5. L1835123-01	5.12	50	1	9.77	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
6. L1835396-01	5.07	50	1	9.86	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
7. L1835396-02	5.05	50	1	9.9	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
8. L1835396-03	5.05	50	1	9.9	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
9. L1835396-04	5.08	50	1	9.84	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
10. L1835412-01	4.80	50	1	10.42	1.04	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
11. L1835452-01	5.13	50	1	9.75	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
12. L1835452-02	5.09	50	1	9.82	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
13. L1835452-03	5.03	50	1	9.94	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
14. L1835452-04	5.06	50	1	9.88	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
15. L1835560-01	5.16	50	1	9.69	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
16. L1835560-02	5.07	50	1	9.86	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
17. L1835560-03	5.22	50	1	9.58	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
18. L1835560-04	5.03	50	1	9.94	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
19. L1835560-05	5.07	50	1	9.86	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03

Comments:
IC-10 031725 ELUENT: 241291398014

Reviewed By:GEB3921 on 03/17/25 13:15:03

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Coef1	First Order Coefficient.
Coef2	Second Order Coefficient.
Corr.	Correlation Coefficient.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Incpt	Intercept.
Mass	Mass of parameter.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RSD	Relative Standard Deviation.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Wavelength	Wavelength of parameter.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

GLOSSARY OF TERMS

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Haley & Aldrich-Phoenix, AZ

400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Billing Information:
Attn: Accounts Payable
70 Blanchard Rd., Ste. 204
Burlington, MA 01803-5100

Pres Chk

Report to:
Samantha Kaney 602-760-2420

Email To: **skaney@haleyaldrich.com**

Project Description:

City/State Collected: Missouri

Please Circle: PT MT (CT) ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #: 0213103-000

Lab Project #: **HALALDPAZ-EVERGY**

Collected by (print): S. Kaney

Site/Facility ID #:

P.O. #:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CR6,SULFATE,TS 4ozClr-NoPres EPA 3537 9056A	CR6ICFFP 50mlTube/plungerPres	Diss Metals, CR6LL 250mlHDPE-NoPres	Metals 2ozClr-NoPres SW6010B Mercury EPA SW 7471B	SULFATE 125mlHDPE-NoPres	Total Metals 250mlHDPE-HNO3	EPA 903/904 Ra-226, Ra-228 1LstHDPE NoPres				Remarks	Sample # (lab only)
Montrose_School_Ditch_S_So	Comp	SS	0-1	3/10/25	1050	3	X			X			X					-01
Montrose_School_Drains_S_So	Comp	SS	0-1	3/10/25	1120	3	X			X			X					-02
650_851_S_So	Comp	SS	0-1	3/10/25	1155	3	X			X			X					-03
601_T_S_So	Comp	SS	0-1	3/10/25	1235	3	X			X			X					-04
250_651_S_So	Comp	SS	0-1	3/10/25	1310	3	X			X			X					-05
Davis_School_Ditch_S_So	Comp	SS	0-1	3/10/25	1350	3	X			X			X					-06
Davis_School_Drains_S_So	Comp	SS	0-1	3/10/25	1415	3	X			X			X					-07
Davis_school_front_playground_S_So	Comp	SS	0-1	3/10/25	1445	3	X			X			X					-08
Davis_School_playground_S_So	~~Comp~~ Grab	SS	0-1	3/10/25	1510	3	X			X			X					-09
Davis_School_Track_S_So	Comp	SS	0-1	3/10/25	1535	3	X			X			X					-10

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:CR6LL has a 24hr hold time
No rush for rad

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	3/10/25	1800	FedEx
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Ei Davis 17

Trip Blank Received: Yes / (No)
HCL / MeoH
TBR

Temp: 3.0 °C Bottles Received: 33
2.7+0.4=3.1

If preservation required by Login: Date/Time

Date: 3-11-25 Time: 0900

Hold:

Condition: NCF / (OK)

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

L1834664

E125

Acctnum: **HALALDPAZ**
Template:**T269254**
Prelogin: **P1136136**
PM: **288 - Daphne Richards**
PB: 3/3/25 CAM
Shipped Via: **FedEX Standard**

Company Name/Address:
Haley & Aldrich-Phoenix, AZ

400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Billing Information:
Attn: Accounts Payable
70 Blanchard Rd., Ste. 204
Burlington, MA 01803-5100

Pres Chk

Report to:
Samantha Kaney 602-760-2420

Email To: **skaney@haleyaldrich.com**

Project Description:

City/State Collected: Missouri

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # 0213103-000

Lab Project # **HALALDPAZ-EVERGY**

Collected by (print): S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CR6,SULFATE,TS 4ozClr-NoPres EPA 3060A/7196A	CR6ICFFP 50mlTube/plungerPres	Diss Metals, CR6LL 250mlHDPE-NoPres	Metals 2ozClr-NoPres Mercury EPA 7470B SW6020B	SULFATE 125mlHDPE-NoPres	Total Metals 250mlHDPE-HNO3	Rad - EPA 903.1/904.0 Ra-228 1.0+2.0 DOL-			Remarks	Sample # (lab only)
Davis_school-Dup2_So	Grab	SS	0-1	3/10/25	1705	3	X			X			X				-11
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:CR6LL has a 24hr hold time
No rush for rad

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4439 2438 8561

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	3/10/25	1800	FedEx
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Ei Ravi

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 2.7 °C Bottles Received: 33
2.7+0.4=3.1

Date: 3-11-25 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: Y __N
RAD Screen <0.5 mR/hr: Y __N

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1824664

Table #

Acctnum: **HALALDPAZ**
Template:**T269254**
Prelogin: **P1136136**
PM: **288 - Daphne Richards**
PB: 3/3/25 Cam
Shipped Via: **FedEX Standard**

Radiochemistry Raw Data

CALCULATIONS

Ra-226 ACTIVITY CALCULATION

Conc (C) pCi/l = ((A/T -B))/(V*E*Y*2.22*F)

A	Peak Area (cpm)
B	Area Background (cpm)
T	Count time (min)
V	Volume (L or g)
E	Efficiency (%)
Y	Ba-133 Yield (%)
2.22	Conversion from dpm to pCi
F	Isotope Energy Abundance

Example

Conc (C) pCi/l = ((A -(B*T))/(T*V*E*Y*2.22*F)

Conc (C) pCi/l = (621 -(.019*200))/(200*1*..262*1*2.22*1)

Conc (C) pCi/l = 5.31

A	621
B	0.019
T	200
V	1
E	0.262
Y	100%
2.22	2.22
F	1

2 Sigma Counting Uncertainty

2σCE = 1.96*SQRT(A/T/T+B/T)/(V*E*Y*2.22*F)

Example

2σCE = 1.96*SQRT(A/T/T+B/T)/(V*E*Y*2.22*F)

2σCE = 1.96*(SQRT(621/200/200+.019/200))/(1*0.261*1*2.22*1)

2σCE = 0.421

A	621
B	0.019
T	200
V	1.000
E	0.262
Y	1.000
2.22	2.220
F	1.000

COMBINED SAMPLE UNCERTAINTY(CSU OR TPU)

2σTPU = 1.96*SQRT((EU/E)^2*C+(VU/V)^2*C+(YU/U)^2*C+(TrU/Tr)^2+C)+2σCE

EU	Eff unc.	0.011
VU	Vol. Unc.	0.001
YU	Yield Unc.	0.05
TrU	Ba-133 Tracer Unc.	294
Tr	Ba-133 Tracer Counts	11142
C	Sample Activity	5.31

Example

2σTPU = 1.96*SQRT((EU/E)^2*C+(VU/V)^2*C+(YU/U)^2*C+(TrU/Tr)^2+C)+2σCE

2σTPU = 1.96*SQRT(((0.011/0.262)^2*5.31)+((0.001/1)^2*5.31)+((0.05/1)^2*5.31)+((294/11142)^2*5.31))+K30

2σTPU = 0.739

A	621
B	0.019
T	200
V	1
E	0.262
Y	1
2.22	2.22
F	1

CRITICAL LEVEL (CL)

Lc = 1.65*sqrt(B/T+B/1000)/(V*E*Y*2.22*F)

Example

Lc = 1.65*sqrt(B/T+B/1000)/(V*E*Y*2.22*F)

Lc = 1.65*(sqrt(0.019/200+.019/1000))/(1*0..262*.1*2.22*1)

Lc = 0.030

A	621
B	0.019
T	200
V	1
E	0.262
Y	1
2.22	2.22
F	1

MINIMUM DETETABLE ACTIVITY(MDA/MDC)

MDA = 3.29*(sqrt(B/T+B/1000)/(V*E*Y*2.22*F))+3/(T*V*E*Y*2.22*F)

Example

MDA = 3.29*(sqrt(B/T+B/1000)/(V*E*Y*2.22*F))+3/(T*V*E*Y*2.22*F)

MDA = =3.29*(sqrt(.019/200+.019/1000)/(1*0.2262*1*2.22*1))+3/(200*1*.262*1*2.22*1)

MDA = 0.086

A	621
B	0.019
T	200
V	1
E	0.262
Y	1
2.22	2.22
F	1

CALCULATIONS

Ra-224 ACTIVITY CALCULATION

Conc (C) pCi/l = ((A/T -B)-(Tr*.011))/(T*V*E*Y*2.22*DF)

A	Peak Area (cpm)
B	Area Background (cpm)
T	Count time (min)
V	Volume (L or g)
E	Efficiency (%)
Y	Ba-133 Yield (%)
2.22	Conversion from dpm to pCi
F	Isotope Energy Abundance
DF	Decay factor

Conc (C) pCi/l = ((A -(B*T))/(T*V*E*Y*2.22*F*DF)

Conc (C) pCi/l = (10 -(006*200))/(200*1*.262*1*2.22*1*.95)

Conc (C) pCi/l = 0.080

A	10
B	0.006
T	200
V	1
E	0.262
Y	100%
2.22	2.22
F	0
DF	0.950

2 Sigma Counting Uncertainty

2σCE = 1.96*SQRT(A/T/T+B/T)/(V+E+Y*2.22*F*DF)

Example

2σCE = 1.96*SQRT(A/T/T+B/T)/(V*E*Y*2.22*F*DF)

2σCE = 1.96*(SQRT(10/200/200+.006/200))/(1*0.262*1*2.22*1*.95)

2σCE = 0.059

COMBINED SAMPLE UNCERTAINTY(CSU OR TPU)

2σTPU = 1.96*SQRT(EU/E^2*C+VU/V^2*C+YU/U^2*C)+2σCE

EU	0.011
VU	0.001
YU	0.050
TrU	294
Tr	11142

2σTPU = 1.96*SQRT(EU/E^2*C+VU/V^2*C+YU/U^2*C+TrU/Tr^2+C)+2σCE

2σTPU = 1.96*SQRT(((0.011/0.262)^2*.080)+((0.001/1)^2*.080)+((0.05/1)^2*.080)+((294/11142)^2*.080))+.059

2σTPU = **0.098**

CRITICAL LEVEL (CL)

Lc = (1.65*sqrt(B/T+B/1000)/(V*E*Y*2.22*F))/DF

Lc = (1.65*sqrt(B/T+B/1000)/(V*E*Y*2.22*F))/DF

Lc = (1.65*(sqrt(0.006/200+.006/1000))/(1*0.262*1*2.22*1))/.95

Lc = **0.018**

MINIMUM DETETABLE ACTIVITY(MDA/MDC)

MDA = (3.29*sqrt(B/T+B/1000)/(V*E*Y*2.22*F)+3/(T*V*E*Y*2.22*F))/DF

MDA = (3.29*sqrt(B/T+B/1000)/(V*E*Y*2.22*F)+3/(T*V*E*Y*2.22*F))/DF

MDA = =(3.29*sqrt(.006/200+.006/1000)/(1*0.262*1*2.22*1)+3/(200*1*.262*1*2.22*1))/0.95

MDA = **0.063**

RADIUM 226 (Ra-226)
METHOD: **SM-7500-RA-B (M)**
SDG# **WG2475924**

	Ra226						Ra224						PREP	DATE	
LAB ID	**Result**	**2 s Error**	**TPU**	**Lc**	**MDA**	**Q**	**Result**	**2 s Error**	**TPU**	**Lc**	**MDA**	**Units**	**DATE**	**COUNTED**	**ANALYST**
BLANK WG2475924	0.024	0.047	0.070	0.023	0.076		-0.024	0.031	0.054	0.028	0.087	pCi/g	3/26/25	04/02/25	ZRG3837
LCS WG2475924	4.718	0.422	0.759	0.034	0.097		-0.041	0.039	0.070	0.036	0.101	pCi/g	3/26/25	04/02/25	ZRG3837
MS L1835561-05 WG2475924	4.537	0.396	0.701	0.023	0.072		-0.043	0.038	0.068	0.035	0.097	pCi/g	3/26/25	04/02/25	ZRG3837
MSD L1835561-05 WG2475924	4.319	0.394	0.672	0.018	0.065		-0.032	0.034	0.057	0.031	0.090	pCi/g	3/26/25	04/02/25	ZRG3837
DUP L1834667-08 WG2475924	0.363	0.106	0.184	0.021	0.065		-0.031	0.029	0.052	0.027	0.076	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-01 WG2475924	0.804	0.153	0.264	0.012	0.046		-0.004	0.011	0.020	0.010	0.043	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-02 WG2475924	0.777	0.153	0.264	0.013	0.048		-0.006	0.014	0.024	0.013	0.048	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-03 WG2475924	0.532	0.136	0.235	0.017	0.061		-0.017	0.024	0.042	0.022	0.071	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-04 WG2475924	0.446	0.126	0.221	0.020	0.066		-0.021	0.026	0.047	0.024	0.074	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-05 WG2475924	0.154	0.068	0.117	0.006	0.036		-0.009	0.017	0.029	0.015	0.054	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-06 WG2475924	0.091	0.062	0.103	0.014	0.056		-0.016	0.024	0.041	0.022	0.073	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-07 WG2475924	0.347	0.098	0.177	0.011	0.043		-0.021	0.023	0.043	0.022	0.064	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-08 WG2475924	0.464	0.122	0.264	0.019	0.061		-0.020	0.025	0.055	0.023	0.069	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-09 WG2475924	0.684	0.159	0.270	0.023	0.074		-0.016	0.024	0.041	0.022	0.071	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-10 WG2475924	0.223	0.099	0.167	0.025	0.078		-0.029	0.033	0.057	0.030	0.090	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-11 WG2475924	0.154	0.086	0.147	0.026	0.081		-0.014	0.023	0.041	0.021	0.071	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-01 WG2475924	0.213	0.095	0.169	0.021	0.072		-0.014	0.023	0.042	0.021	0.072	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-02 WG2475924	0.139	0.073	0.123	0.011	0.050		-0.019	0.026	0.045	0.024	0.077	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-03 WG2475924	0.090	0.071	0.110	0.026	0.081		-0.010	0.020	0.033	0.018	0.066	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-04 WG2475924	0.315	0.108	0.195	0.020	0.067		-0.018	0.025	0.045	0.023	0.072	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-05 WG2475924	0.148	0.076	0.126	0.017	0.061		-0.011	0.019	0.032	0.017	0.061	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-06 WG2475924	0.468	0.136	0.242	0.032	0.090		-0.038	0.036	0.066	0.033	0.093	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-07 WG2475924	1.697	0.300	0.543	0.034	0.108		-0.064	0.057	0.105	0.053	0.146	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-09 WG2475924	0.462	0.145	0.243	0.027	0.087		-0.006	0.016	0.028	0.015	0.062	pCi/g	3/26/25	04/02/25	ZRG3837
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/g	1/0/00	01/00/00	ZRG3837
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/g	1/0/00	01/00/00	ZRG3837
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/g	1/0/00	01/00/00	ZRG3837
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/g	1/0/00	01/00/00	ZRG3837

QC REPORT

WG2475924

Analyte	**Ra226**	Spike ID:	25B04944											
Matrix	SCM	Volume Spike Added:		1	ml	Uncert.								
		Activity of Spike:		5.00	pCi/ml	0.186								
							Acceptance Limits			LIMITS		LIMITS		Z-Data
							LOW	HIGH						
	RESULT	2^{σ} ERR	MDA	CSU	known	%REC			RPD		RER			
BLANK WG2475924	**0.024**	**0.047**	**0.076**	**0.070**										**0.68**
LCS WG2475924	**4.72**	**0.422**	**0.097**	**0.759**	**5.00**	**94.3%**	80%	120%						**0.71**
L1834667-08 WG2475924	**0.46**	**0.122**	**0.061**	**0.264**										
DUP L1834667-08 WG2475924	**0.36**	**0.106**	**0.065**	**0.184**					**24.6%**	20%	**0.629**	**3**		**0.62**
L1835561-05 WG2475924	**0.15**	**0.076**	**0.061**	**0.126**										
MS L1835561-05 WG2475924	**4.54**	**0.396**	**0.072**	**0.701**	**5.0**	**87.9%**	75%	125%						**1.61**
MSD L1835561-05 WG2475924	**4.32**	**0.394**	**0.065**	**0.672**	**4.9**	**84.6%**	75%	125%	**4.9%**	20%				

RADIUM 226 (Ra-226)

METHOD: SM-7500-RA-B (M)
SDG# WG2475924
ANALYST: ZRG3837

Ra-226 Peak Abundance (4.78KeV(94%), 4.60KeV(6%)) 100.0%

TR_1_BLANK_1_ 24K12850	1605	
TR_5_STD 4 24K12850	13988	
TR_6_STD 5 24K12850	13305	
TR_5_STD 4 24K12850	14081	
TR_6_STD 5 24K12850	13283	
TR_7_BLANK_2_ 24K12850	1557	
Average BKG =	1581	
Net Ba133 Tracer	12083	429
Vol Tracer (ml)	1	

LAB ID	SUB ID	SAMPLE DATE	PREP DATE	DATE COUNTED	DAYS	DF	Carrier ADDED(ML)	VOL (g)	MATRIX (NPW,SCM,BIO,F)	COUNT TIME	Ra226 area	bck cpm	Ra224 area	bck cpm	Ba133 COUNTS	DET #	EFF	uE	Cal. Ba-133 TRACER REC	Ba-133 TRACER REC	Flags
BLANK WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.000	SCM	200	4	0.008		0.012	12259	01	25.2%	0.9%	88.4%	88%	
LCS WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.000	SCM	200	491	0.019		0.021	12318	02	26.2%	1.1%	88.9%	89%	
MS L1835561-05 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.002	SCM	200	511	0.010		0.024	13428	03	25.7%	1.0%	98.0%	98%	
MSD L1835561-05 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.015	SCM	200	465	0.006		0.017	13293	04	24.6%	0.7%	96.9%	97%	
DUP L1834667-08 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.132	SCM	200	52	0.013		0.021	13742	09	27.1%	0.6%	100.0%	101%	
L1834667-01 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.008	SCM	200	109	0.004		0.003	13452	10	30.6%	0.4%	98.2%	98%	
L1834667-02 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.042	SCM	200	101	0.004		0.004	13639	11	27.9%	0.5%	99.8%	100%	
L1834667-03 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.039	SCM	200	62	0.006		0.010	12929	13	26.4%	0.7%	93.9%	94%	
L1834667-04 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.071	SCM	200	53	0.008		0.012	13184	01	25.2%	0.9%	96.0%	96%	
L1834667-05 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.021	SCM	200	20	0.001		0.006	13570	19	28.6%	0.4%	99.2%	99%	
L1834667-06 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.019	SCM	200	10	0.003		0.008	13018	20	24.1%	0.7%	94.7%	95%	
L1834667-07 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.047	SCM	200	51	0.004		0.015	14090	21	31.1%	1.0%	100.0%	104%	
L1834667-08 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.053	SCM	200	61	0.009		0.013	12944	23	29.0%	2.5%	94.0%	94%	
L1834667-09 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.013	SCM	200	77	0.010		0.009	13230	24	25.3%	0.7%	96.4%	96%	
L1834667-10 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.039	SCM	200	25	0.010		0.015	12787	25	24.1%	0.8%	92.7%	93%	
L1834667-11 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.035	SCM	200	18	0.011		0.007	13547	26	22.6%	1.1%	99.0%	99%	
L1835561-01 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.094	SCM	200	23	0.007		0.007	12462	27	23.2%	1.1%	90.1%	90%	
L1835561-02 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.016	SCM	200	15	0.002		0.010	12375	28	26.1%	0.4%	89.3%	89%	
L1835561-03 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.038	SCM	200	11	0.010		0.005	12616	29	23.7%	0.3%	91.3%	91%	
L1835561-04 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.078	SCM	200	37	0.008		0.010	12026	30	27.2%	1.1%	86.4%	86%	
L1835561-05 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.016	SCM	200	18	0.006		0.006	12379	32	28.2%	0.2%	89.4%	89%	
L1835561-06 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.069	SCM	200	56	0.019		0.021	12420	02	26.2%	1.1%	89.7%	90%	
L1835561-07 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.045	SCM	200	129	0.010		0.024	9159	03	25.7%	1.0%	62.7%	63%	
L1835561-09 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.006	SCM	200	45	0.010		0.003	12423	37	23.2%	0.8%	89.7%	90%	

Counted by GPC
PR - Poor Resolution
RC - Recount

Background and Efficiency

Ra226 area	bck cpm	DET	Apr-25 EFF	ERR		bck cpm	Poor Resolution (PR)			
	0.008	01	25.2%	0.9%		0.013	01	25.2%	0.9%	
	0.019	02	26.2%	1.1%		0.035	02	26.2%	1.1%	
	0.010	03	25.7%	1.0%		0.015	03	25.7%	1.0%	
	0.006	04	24.6%	0.7%		0.012	04	24.6%	0.7%	
		5					5			
		6					6			
		7					7			
		8					8			
	0.013	09	27.1%	0.6%		0.019	09	27.1%	0.6%	
	0.004	10	30.6%	0.4%		0.010	10	30.6%	0.4%	
	0.004	11	27.9%	0.5%		0.011	11	27.9%	0.5%	
		12					12			
	0.006	13	26.4%	0.7%		0.015	13	26.4%	0.7%	
	0.013	14	25.4%	0.9%		0.020	14	25.4%	0.9%	
		15					15			
		16					16			
		17					17			
		18					18			
	0.001	19	28.6%	0.4%		0.005	19	28.6%	0.4%	
	0.003	20	24.1%	0.7%		0.008	20	24.1%	0.7%	
	0.004	21	31.1%	1.0%		0.007	21	31.1%	1.0%	
		22					22			
	0.009	23	29.0%	2.5%		0.012	23	29.0%	2.5%	
	0.010	24	25.3%	0.7%		0.015	24	25.3%	0.7%	
	0.010	25	24.1%	0.8%		0.030	25	24.1%	0.8%	
	0.011	26	22.6%	1.1%		0.018	26	22.6%	1.1%	
	0.007	27	23.2%	1.1%		0.014	27	23.2%	1.1%	
	0.002	28	26.1%	0.4%		0.012	28	26.1%	0.4%	
	0.010	29	23.7%	0.3%		0.019	29	23.7%	0.3%	
	0.008	30	27.2%	1.1%		0.020	30	27.2%	1.1%	
		31	28.5%	1.3%			31	28.5%	1.3%	
	0.006	32	28.2%	0.2%		0.010	32	28.2%	0.2%	
	0.007	33	23.1%	0.6%	**A-4-1A**	0.020	33	23.1%	0.6%	**A-4-1A**
	0.005	34	21.3%	1.5%	**A-4-1B**	0.010	34	21.3%	1.5%	**A-4-1B**
	0.018	35	21.4%	0.8%	**A-4-2A**	0.030	35	21.4%	0.8%	**A-4-2A**
	0.015	36	22.8%	0.5%	**A-4-2B**	0.020	36	22.8%	0.5%	**A-4-2B**
	0.010	37	23.2%	0.8%	**A-4-3A**	0.013	37	23.2%	0.8%	**A-4-3A**
	0.009	38	21.7%	0.9%	**A-4-3B**	0.022	38	21.7%	0.9%	**A-4-3B**
	0.007	39	22.9%	0.7%	**A-4-4A**	0.012	39	22.9%	0.7%	**A-4-4A**
	0.003	40	22.9%	0.4%	**A-4-4B**	0.008	40	22.9%	0.4%	**A-4-4B**
	0.007	41	22.2%	1.3%	**A-4-5A**	0.011	41	22.2%	1.3%	**A-4-5A**
	0.006	42	22.8%	0.9%	**A-4-5B**	0.012	42	22.8%	0.9%	**A-4-5B**
	0.011	43	23.5%	0.7%	**A-4-6A**	0.017	43	23.5%	0.7%	**A-4-6A**
	0.003	44	20.9%	0.3%	**A-4-6B**	0.009	44	20.9%	0.3%	**A-4-6B**
		45			**A-1-1A**		45			**A-1-1A**
		46			**A-1-1B**		46			**A-1-1B**
		47			**A-1-2A**		47			**A-1-2A**
		48			**A-1-2B**		48			**A-1-2B**
		49			**A-1-3A**		49			**A-1-3A**
		50			**A-1-3B**		50			**A-1-3B**
	0.003	51	24.01%	0.78%	**A-1-4A**	0.007	51	24.01%	0.78%	**A-1-4A**
	0.004	52	23.52%	0.85%	**A-1-4B**	0.023	52	23.52%	0.85%	**A-1-4B**
		53	22.91%	0.77%	**A-1-5A**		53	22.91%	0.77%	**A-1-5A**
		54	26.16%	0.83%	**A-1-5B**		54	26.16%	0.83%	**A-1-5B**
	0.004	55	25.34%	1.37%	**A-1-6A**	0.016	55	25.34%	1.37%	**A-1-6A**
	0.003	56	24.23%	0.90%	**A-1-6B**	0.005	56	24.23%	0.90%	**A-1-6B**

Background and Efficiency

	0.001	57	26.52%	0.92%	**A-2-1A**	0.014	57	26.52%	0.92%	**A-2-1A**
	0.002	58	28.64%	1.02%	**A-2-1B**	0.007	58	28.64%	1.02%	**A-2-1B**
		59	26.71%	0.97%	**A-2-2A**		59	26.71%	0.97%	**A-2-2A**
		60			**A-2-3B**		60			**A-2-3B**
	0.005	61	26.89%	0.94%	**A-2-3A**	0.010	61	26.89%	0.94%	**A-2-3A**
	0.001	62	26.70%	0.81%	**A-2-3B**	0.008	62	26.70%	0.81%	**A-2-3B**
		63			**A-2-3A**		63			**A-2-3A**
		64			**A-2-3B**		64			**A-2-3B**
	0.002	65	26.87%	0.87%	**A-2-5A**	0.008	65	26.87%	0.87%	**A-2-5A**
	0.004	66	26.83%	0.87%	**A-2-5B**	0.037	66	26.83%	0.87%	**A-2-5B**
	0.001	67	26.95%	0.97%	**A-2-6A**	0.020	67	26.95%	0.97%	**A-2-6A**
	0.004	68	26.76%	0.88%	**A-2-6B**	0.006	68	26.76%	0.88%	**A-2-6B**
	0.002	69	27.94%	0.98%	**A-3-1A**	0.003	69	27.94%	0.98%	**A-3-1A**
	0.001	70	27.80%	0.89%	**A-3-1B**	0.005	70	27.80%	0.89%	**A-3-1B**
	0.001	71	23.71%	0.80%	**A-3-2A**	0.003	71	23.71%	0.80%	**A-3-2A**
	0.001	72	25.74%	0.20%	**A-3-2B**	0.001	72	25.74%	0.20%	**A-3-2B**
		73			**A-3-3A**		73			**A-3-3A**
		74			**A-3-3B**		74			**A-3-3B**
	0.001	75	28.00%	0.84%	**A-3-4A**	0.014	75	28.00%	0.84%	**A-3-4A**
	0.001	76	27.92%	0.98%	**A-3-4B**	0.003	76	27.92%	0.98%	**A-3-4B**
	0.013	77	27.23%	0.86%	**A-3-5A**	0.022	77	27.23%	0.86%	**A-3-5A**
	0.001	78	26.93%	0.73%	**A-3-5B**	0.004	78	26.93%	0.73%	**A-3-5B**
	0.002	79	26.31%	0.81%	**A-3-6A**	0.005	79	26.31%	0.81%	**A-3-6A**
	0.001	80	25.90%	1.00%	**A-3-6B**	0.004	80	25.90%	1.00%	**A-3-6B**

CERTIFICATES

SOURCE	LOT	PACE ID	Exp. Date
Ra-226	No.3613	25B04944	Jan-26
Ba-133	2455-48	25C03249	Sep-26

DECAY CALCUALTION

Ra226 Source
No.3613

ACTIVITY FORMULA A = Ao(e^^-NT)

ml HCl 41.6667
25B04944

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	08-Apr-24	
DATE OF CALIBRATION	26-Mar-25	
Ao =	588.69	pCi/ml
N =	0.00	
T(1/2) =	1600.00	years
T =	0.97	years
Standard Volume =	8.500	
Final Volume =	1000.00	
dilution =	117.65	
A =	588.45	pCi/ml
A =	11.10	dpm/ml
A =	5.00	pCi/ml
A =	**5.00**	pCi/ml
Uncertainty	3.70%	
Weight	0.00%	
Volume (1000 ml)	0.03%	
Volume (100 ml Aliquot)	0.40%	
Volume (1000 ml)	0.03%	
CSU	3.72%	

Activity 5.00 +/- 0.186 pCi/ml

R.E.D 1 x 5ml

Amersham International
Amersham Laboratories

ESC37429

BLI # 3613
Rec'd 8-11-98

NAMAS
CALIBRATION
No 0546

Certificate of calibration of radioactive reference solution

M 29913

Description	Principal radionuclide: Radium-226	Product code:	RAY.24
		Solution number:	R4/131/127
Measurement	Reference time:	1200 GMT on 19 February 1998	
	Radioactive concentration of radium-226:	4.376	kilobecquerels per gram of solution
	which is equivalent to:	118.3	nanocuries per gram of solution
	Mass of solution:	5.0345	grams
	Total activity of radium-226:	22.03	kilobecquerels
	which is equivalent to:	595.4	nanocuries
	Recommended half life:	1600.00	years

Method of measurement:
The activity of the solution was measured in a high pressure re-entrant ionisation chamber calibrated with a large number of absolutely standardised solutions.

Accuracy: Overall uncertainty in the radioactive concentration quoted above: ± 3.7 %

Random uncertainty: ± 0.7 % Systematic uncertainty: ± 3.0 %

The limits of overall uncertainty were taken as the arithmetic sum of the uncertainty due to random variations, calculated at the 99.7% confidence level, and the estimated systematic uncertainties in the measurement.

Radionuclidic Purity: The estimated activities of any radioactive impurities found by high-resolution gamma ray spectrometry, or in any other examination of the solution, are listed below expressed as percentages of the activity of the principal radionuclide at the reference time.

ENVIRONMENT AGENCY SCIENCE GROUP

Chemical Composition: Carrier free in 0.5M HCl

Remarks: At the reference date radium-226 was shown to be in radioactive equilibrium with its daughter nuclides down the decay chain to polonium-214 and thallium-210, the precursors of lead-210. The ionisation chamber was calibrated using a standard supplied by the National Institute of Standards and Technology, Washington DC, USA.

This product meets the quality assurance requirements of the NRC Regulatory Guide 4.15 for achieving implicit NIST traceability as defined in NCRP 58 (1985).

Approved signatory: B D D Singleton

RECEIVED
APR 0 2 1998

Amersham
The Health Science Group

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Source: Ba-133
Lot No. 2455-48
ID: **25C03249**

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

24K12827	250mL	Ba133 STOCK
24L04881	10mL	Hydrochloric Acid
	740mL	DI Water

DATE OF ORIGINATION 12-Nov-24
DATE OF CALIBRATION 26-Mar-25

Ao =	9895.67	pCi
N =	0.07	
T(1/2) =	10.50	years
T =	0.37	years
Std Volume	250.00	
Final Volume	1000.00	
dilution =	4.00	

A =	9658	pCi
A =	5360	dpm/ml
A =	2414	pCi/ml

Eckert & Ziegler
Isotope Products

24937 Avenue Tibbitts
Valencia, California 91355

Tel 661 309 1010
Fax 661 257 8303

ESC58780

Rad
1 x 5 mL

NOMINAL LIQUID SOURCE DATA SHEET

Customer: Pace Analytical

Date: 14-Aug-24

P.O. Number: 0155141

Catalog No.: 6133

Quantity: 1

Source No.	Nuclide	Activity	Spec. Act.	Ref. Date	Conc.
2455-48	Ba-133	10 µCi 370 kBq	Not determined	15-Sep-24	2 µCi / mL 74 kBq / mL

Volume: 5 mL

Chemical Form: $BaCl_2$ in 0.1M HCl

Radionuclidic Purity: > 99 %

Carrier: 10 µg Ba / mL

Leak Test Information is on the reverse side.

Impurities: None detected

Remarks: 5 mL FSA

Precaution: This container must not be opened until adequate health and safety measures are taken (such as placed in a hood, glove box, cell) to protect the user from excessive exposure to the body as a result of radiation and/or contamination. This material has not been sterilized or tested for pyrogenicity. For laboratory or manufacturing use only.

Lab Book-Page: 2455-48

L Rousselle 23Aug24
Signature, Date

RA-226 Solids Radiochemistry Prep Benchsheet

Batch: WG2475924

Analyst: LAG4246 **Prep Start Date/Time:** 03/26/25 11:54-11:56 **Prep End Date/Time:** 04/01/25 12:12-04/04/25 11:51 **Method:** SM7500Ra B (M)
SOP: ENV-SOP-MTJL-0328 **Bal ID:** RADBAL1 **Pipet ID:** E-11, E-14 **Stirrer ID:** St38, St45, St46 **Filter Lot #:** 0000335026 **Hot Plate ID:** G113, G114
Centrifuge ID: C7 **Centrifuge Tube Lot:** 920138 **Filter Lot#:** na **Transfer Pipet Lot:** 24180063 **1mL Pipet Tip Lot:** 2243 **2mL Pipet Tip Lot:** 2418
10mL e-Pipet Tip Lot: 2332 **10mL Manual Pipet Tip Lot:** P7601073 **pH Lot:** 10BDH40241

Ba-133 Tracer: 25C03249 Amt. Used: 1 mL Exp. Date:09/12/26 **Ra-226 Spike:** 25B04944 Amt. Used: 1 mL Exp. Date:01/27/26
0.2 mg/mL Barium Carrier: 25A29358 Amt. Used: 1 Exp. Date:05/31/25 **100mg/mL Lead Nitrate Carrier:** 25B27887 Amt. Used: 2 Exp. Date:02/27/26
Phenolphthalein Indicator: 24K27060 Amt. Used: 0.50 Exp. Date:11/27/25 **1M Citric Acid:** 25C25802 Amt. Used: 5 Exp. Date:09/30/25
50% Ammonium Sulfate: 25C25803 Amt. Used: 11 Exp. Date:03/25/26 **Ammonium Hydroxide:** 25B25399 Amt. Used: 5 Exp. Date:08/25/26
Methyl Orange: 25A31571 Amt. Used: 0.50 Exp. Date:03/08/26 **1:1 H2SO4:** 25C24609 Amt. Used: 5 Exp. Date:03/24/26
0.25M EDTA: 25C24610 Amt. Used: 10 Exp. Date:03/24/26 **5N Ammonium Hydroxide:** 25C17498 Amt. Used: 3 Exp. Date:03/17/26
Bromocresol Green: 24L05046 Amt. Used: 0.50 Exp. Date:12/05/25 **Acetic Acid:** 25A06034 Amt. Used: 3 Exp. Date:06/19/26
Nitric Acid: 25C19814 Amt. Used: 20 Exp. Date:09/19/29 **HCl:** 25C26982 Amt. Used: 20 Exp. Date:10/07/26

Sample Number	Sample Weight (g)	Precipitation Time	Review Analyst	Review Date
BLANK	1	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
LCS	1	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
MS(L1835561-05)	1.002	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
MSD(L1835561-05)	1.015	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
DUP(L1834667-08)	1.132	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
1. L1834667-01	1.008	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
2. L1834667-02	1.042	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
3. L1834667-03	1.039	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
4. L1834667-04	1.071	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
5. L1834667-05	1.021	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
6. L1834667-06	1.019	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
7. L1834667-07	1.047	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
8. L1834667-08	1.053	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
9. L1834667-09	1.013	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
10. L1834667-10	1.039	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
11. L1834667-11	1.035	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
12. L1835561-01	1.094	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
13. L1835561-02	1.016	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
14. L1835561-03	1.038	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
15. L1835561-04	1.078	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
16. L1835561-05	1.016	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
17. L1835561-06	1.069	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
18. L1835561-07	1.045	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
19. L1835561-09	1.006	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43

Comments:

Reviewed By:ZRG3837 on 04/04/25 11:51:43

Pace Analytical®
National Center for Testing & Innovation

ALPHA SPEC RUN LOG

SDG: R2475924 Sample Order Verified IJM3838

SDG SUB ID	SAMPLE ID	COUNT DATE / TIME	DET #	ANALYTE	COUNT TIME MIN	FILENAME (DDGXXXYY)	ANALYST	COMMENTS
1	BLANK WG2475924	4/2/25 15:54	01	R	200	R 01 2475924 01	IJM3838	
2	LCS WG2475924	4/2/25 15:54	02	R	200	R 02 2475924 02	IJM3838	
3	MS L1835561-05 WG2475924	4/2/25 15:54	03	R	200	R 03 2475924 03	IJM3838	
4	MSD L1835561-05 WG2475924	4/2/25 15:54	04	R	200	R 04 2475924 04	IJM3838	
5	DUP L1834667-08 WG2475924	4/2/25 15:54	09	R	200	R 09 2475924 05	IJM3838	
6	L1834667-01 WG2475924	4/2/25 15:54	10	R	200	R 10 2475924 06	IJM3838	
7	L1834667-02 WG2475924	4/2/25 15:54	11	R	200	R 11 2475924 07	IJM3838	
8	L1834667-03 WG2475924	4/2/25 15:54	13	R	200	R 13 2475924 08	IJM3838	
9	L1834667-04 WG2475924	4/2/25 23:18	01	R	200	R 01 2475924 09	IJM3838	
10	L1834667-05 WG2475924	4/2/25 15:54	19	R	200	R 19 2475924 10	IJM3838	
11	L1834667-06 WG2475924	4/2/25 15:54	20	R	200	R 20 2475924 11	IJM3838	
12	L1834667-07 WG2475924	4/2/25 23:18	21	R	200	R 21 2475924 12	IJM3838	High Voltage Was Not On. Recounted
13	L1834667-08 WG2475924	4/2/25 23:18	23	R	200	R 23 2475924 13	IJM3838	High Voltage Was Not On. Recounted
14	L1834667-09 WG2475924	4/2/25 23:18	24	R	200	R 24 2475924 14	IJM3838	High Voltage Was Not On. Recounted
15	L1834667-10 WG2475924	4/2/25 15:54	25	R	200	R 25 2475924 15	IJM3838	
16	L1834667-11 WG2475924	4/2/25 15:54	26	R	200	R 26 2475924 16	IJM3838	
17	L1835561-01 WG2475924	4/2/25 15:54	27	R	200	R 27 2475924 17	IJM3838	
18	L1835561-02 WG2475924	4/2/25 15:54	28	R	200	R 28 2475924 18	IJM3838	
19	L1835561-03 WG2475924	4/2/25 15:54	29	R	200	R 29 2475924 19	IJM3838	
20	L1835561-04 WG2475924	4/2/25 15:54	30	R	200	R 30 2475924 20	IJM3838	
21	L1835561-05 WG2475924	4/2/25 15:54	32	R	200	R 32 2475924 21	IJM3838	
22	L1835561-06 WG2475924	4/2/25 23:18	02	R	200	R 02 2475924 22	IJM3838	
23	L1835561-07 WG2475924	4/2/25 23:18	03	R	200	R 03 2475924 23	IJM3838	
24	L1835561-09 WG2475924	4/2/25 23:18	37	R	200	R 37 2475924 24	IJM3838	
25				R	200	R 0 2475924 25	IJM3838	
26						R 0 2475924 26	IJM3838	

FILENAME EXAMPLE: R12126111116

R = ANALYSIS RADIUM 226
12 = DETECTOR
1261111 = WG
16 = BATCH SUB

T= THORIUM
R = RADIUM
U = URANIUM

P = PLUTONIUM
A = AMERICIUM

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R01247592401.CNF

Report Generated On : 4/4/2025 11:34:40 AM

Sample Title : BLANK WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:03 PM

Live Time : 12001.0 seconds
Real Time : 12001.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

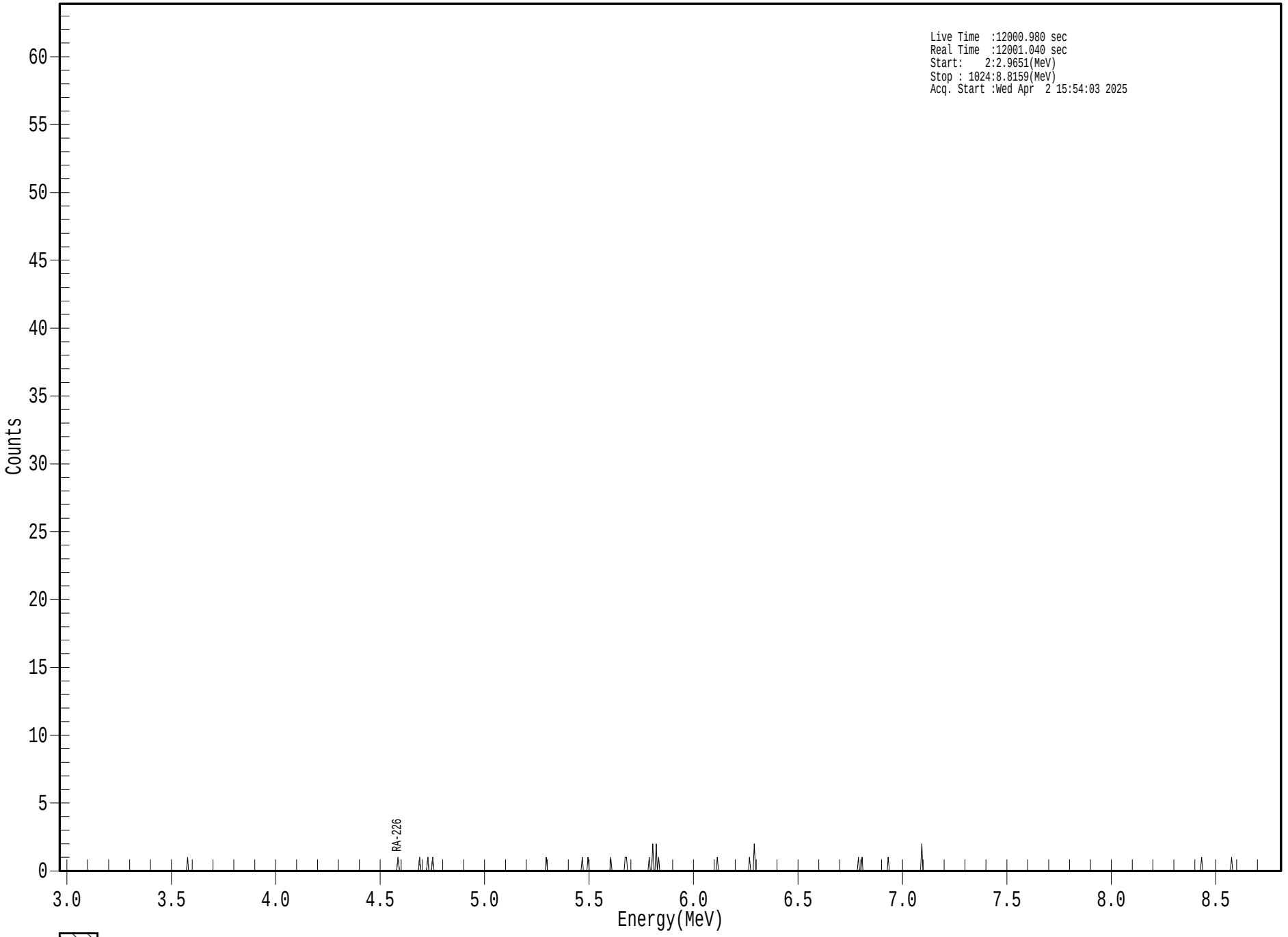
Detector Name: DET01
Sample Title: BLANK WG2475924
Peak Analysis Performed on: 4/4/2025 11:34:40 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	192-	324	303.00	4688.27	5.72	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R01247592401.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R02247592402.CNF

Report Generated On : 4/4/2025 11:35:18 AM

Sample Title : LCS WG24735924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:05 PM

Live Time : 12000.4 seconds
Real Time : 12000.5 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

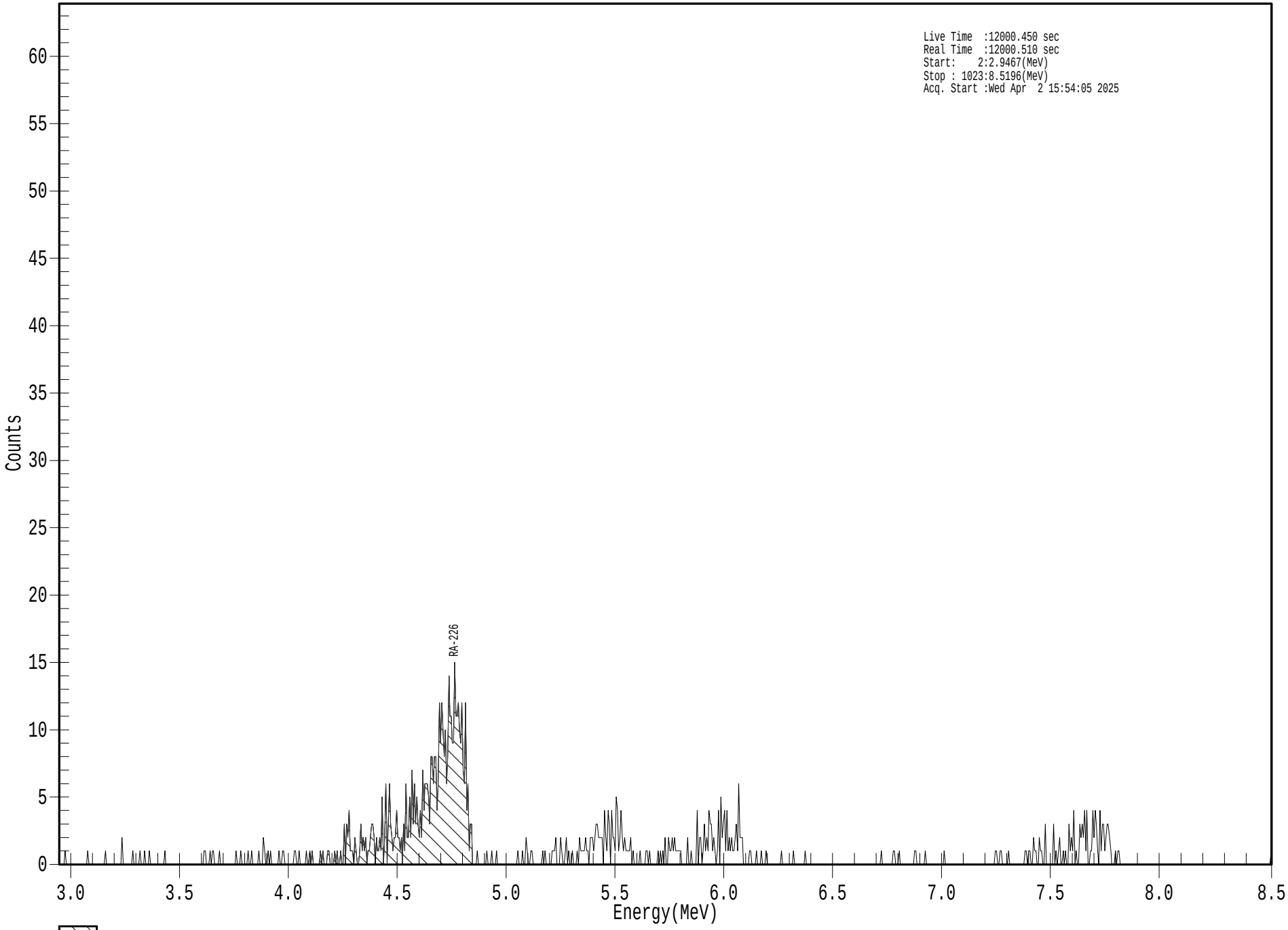
Detector Name: DET02
Sample Title: LCS WG24735924
Peak Analysis Performed on: 4/4/2025 11:35:18 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	212-	353	312.71	4642.65	71.78	4.91E+02	22.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R02247592402.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R03247592403.CNF

Report Generated On : 4/4/2025 11:35:46 AM

Sample Title : MS L1835561-05 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:07 PM

Live Time : 12000.9 seconds
Real Time : 12001.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

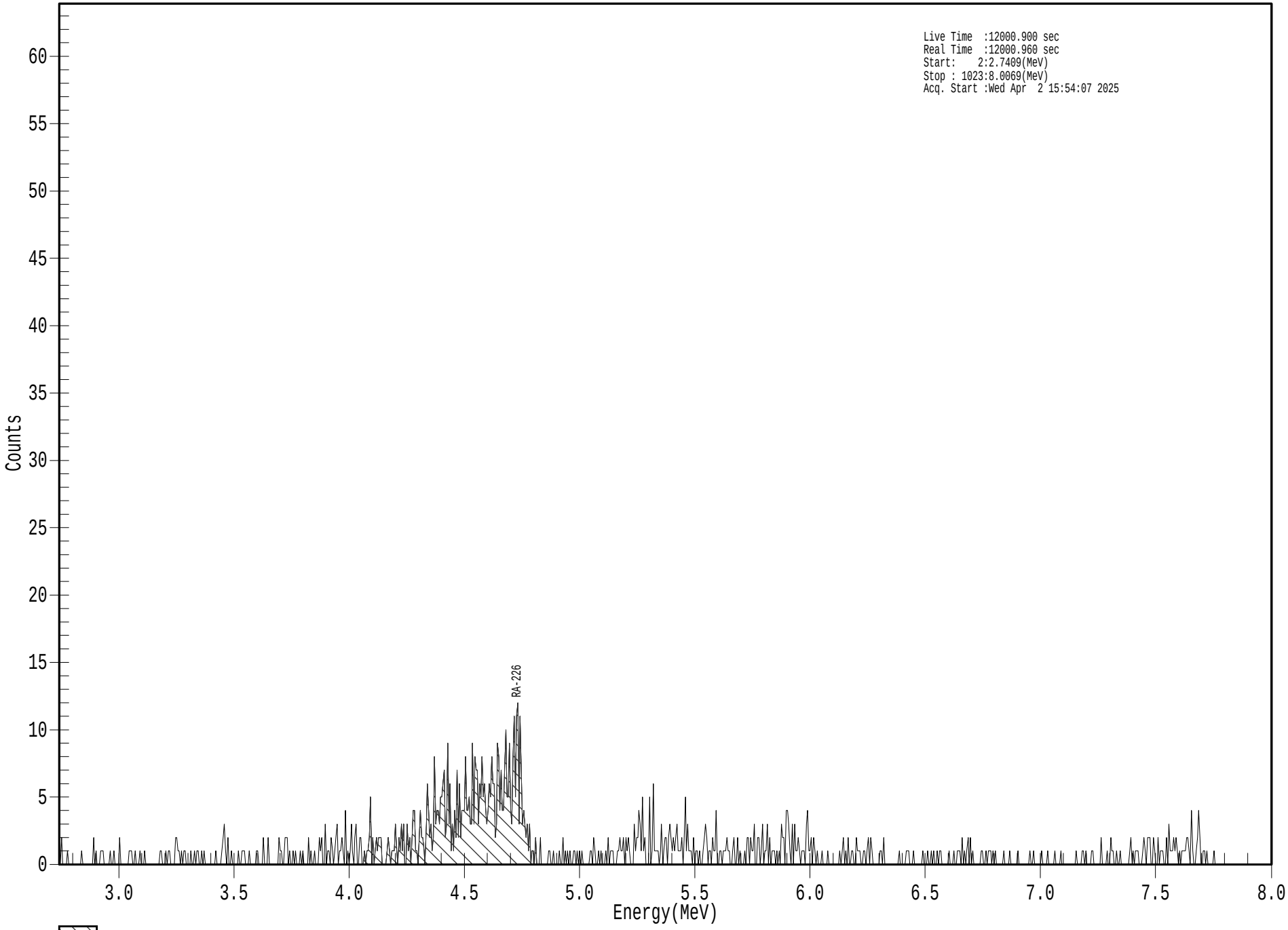
Detector Name: DET03
Sample Title: MS L1835561-05 WG2475924
Peak Analysis Performed on: 4/4/2025 11:35:46 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	258-	405	348.17	4526.33	12.89	5.11E+02	22.61	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R03247592403.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R04247592404.CNF

Report Generated On : 4/4/2025 11:36:26 AM

Sample Title : MSD L1835561-05 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:08 PM

Live Time : 12000.7 seconds
Real Time : 12000.7 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

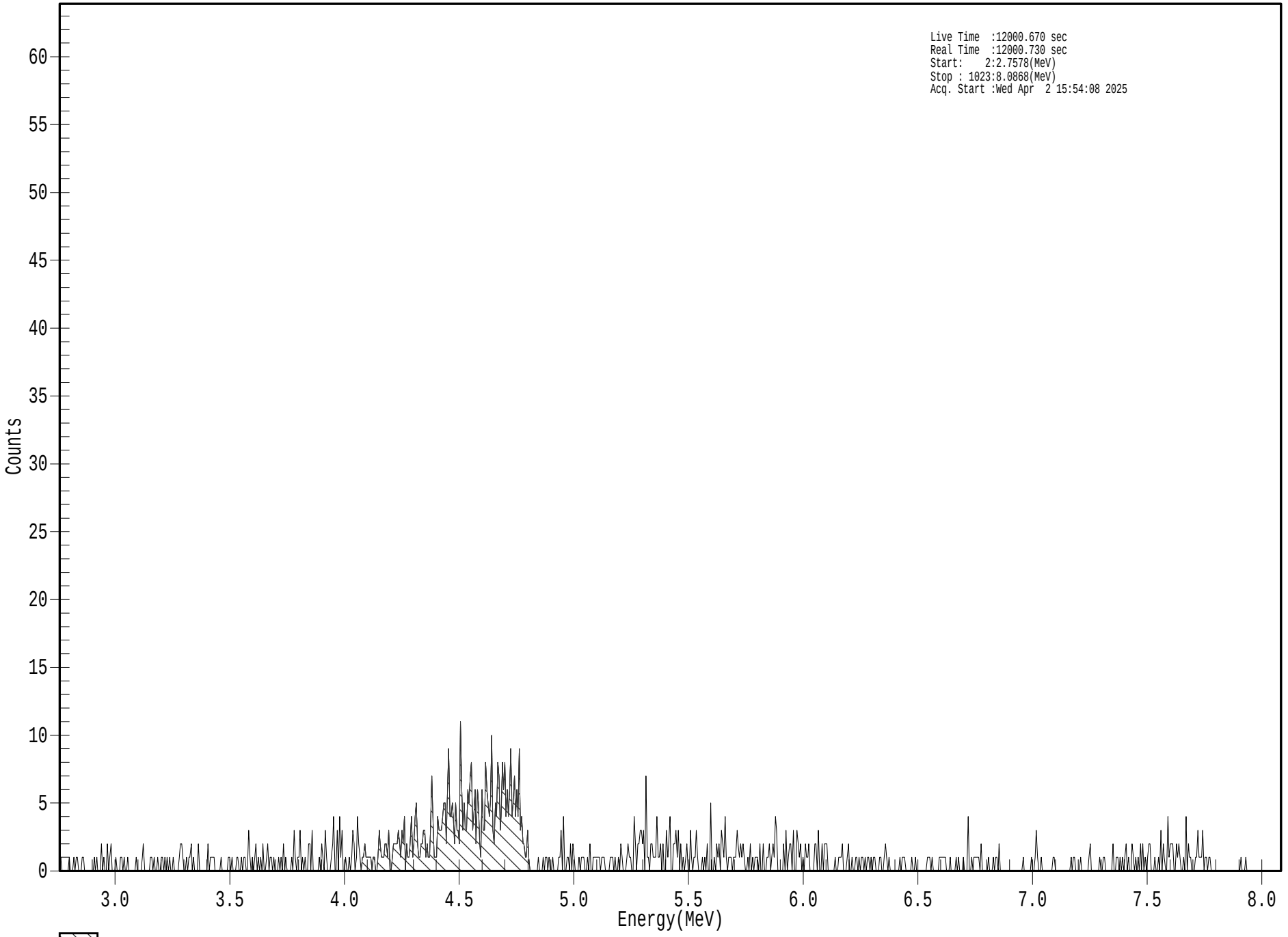
Detector Name: DET04
Sample Title: MSD L1835561-05 WG2475924
Peak Analysis Performed on: 4/4/2025 11:36:26 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	254-	395	340.66	4525.41	9.28	4.65E+02	21.56	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R04247592404.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R09247592405.CNF

Report Generated On : 4/4/2025 11:36:46 AM

Sample Title : DUP L1834667-08 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:11 PM

Live Time : 12000.2 seconds
Real Time : 12000.3 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

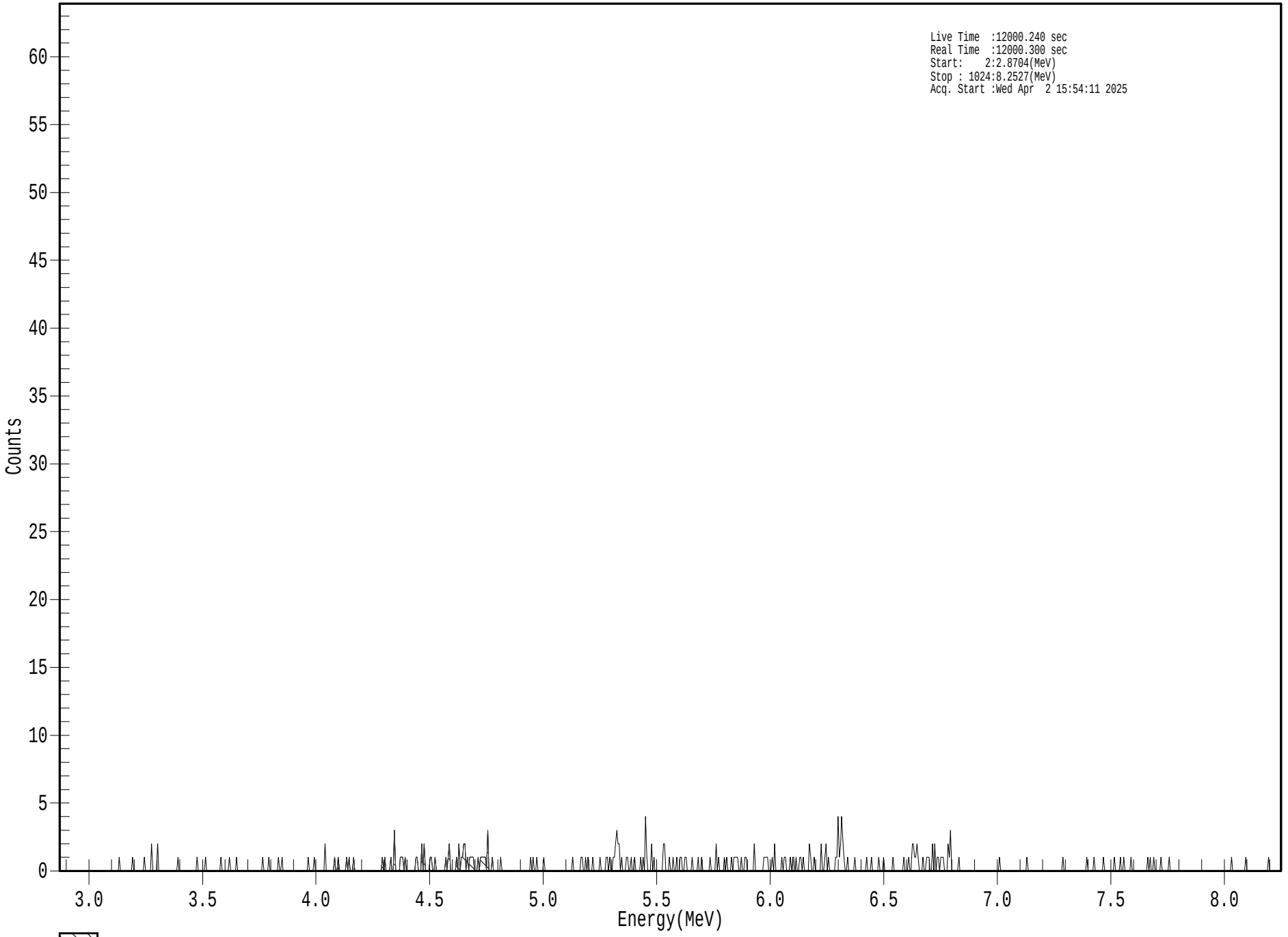
Detector Name: DET09
Sample Title: DUP L1834667-08 WG2475924
Peak Analysis Performed on: 4/4/2025 11:36:46 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	226-	370	316.37	4526.01	5.27	5.20E+01	7.21	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R09247592405.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R10247592406.CNF

Report Generated On : 4/4/2025 11:37:06 AM

Sample Title : L1834667-01 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:13 PM

Live Time : 12000.1 seconds
Real Time : 12000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

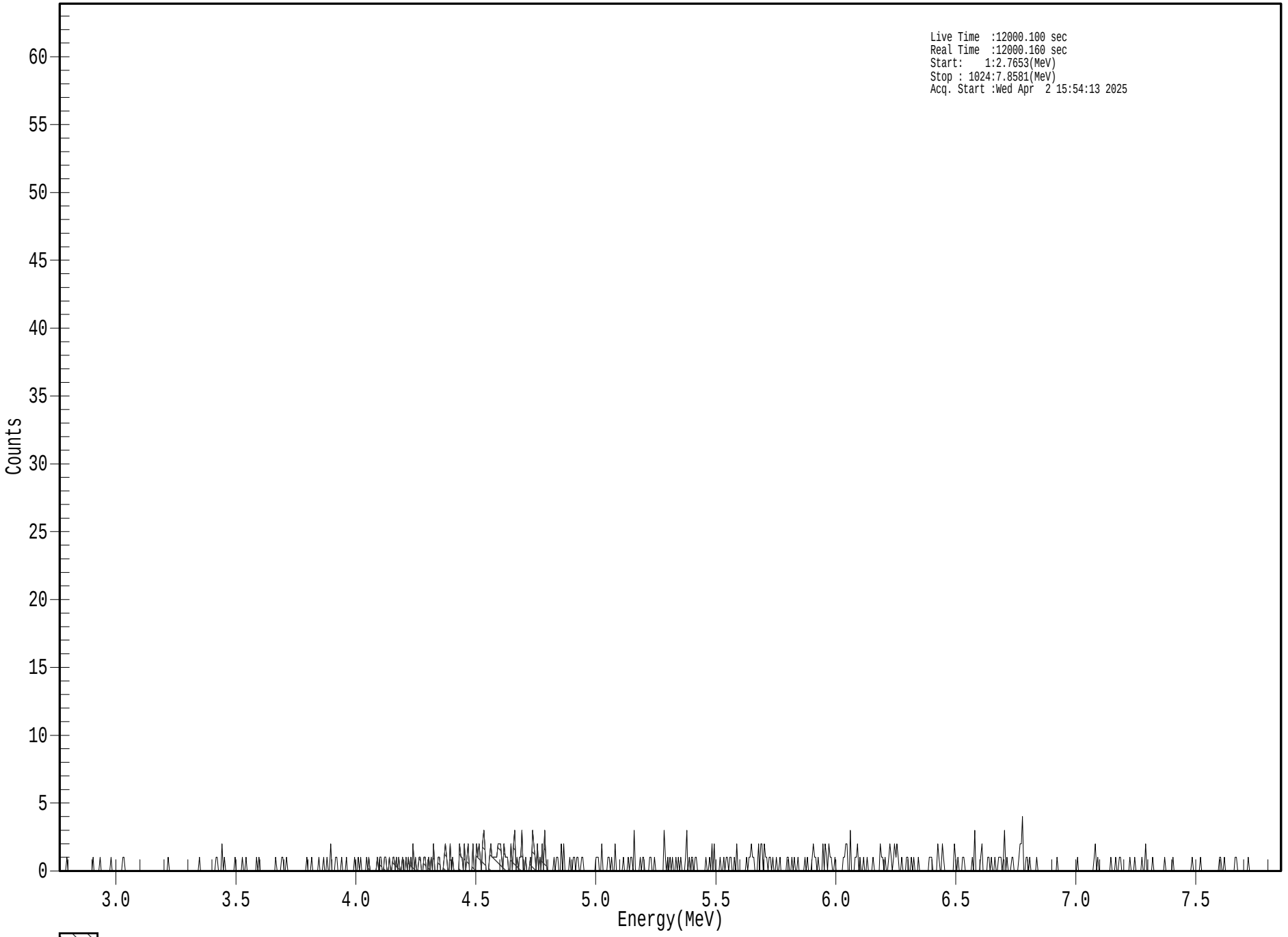
Detector Name: DET10
Sample Title: L1834667-01 WG2475924
Peak Analysis Performed on: 4/4/2025 11:37:06 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	259-	412	348.48	4495.16	12.45	1.09E+02	10.44	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R10247592406.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R11247592407.CNF

Report Generated On : 4/4/2025 11:37:25 AM

Sample Title : L1834667-02 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:14 PM

Live Time : 12000.1 seconds
Real Time : 12000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

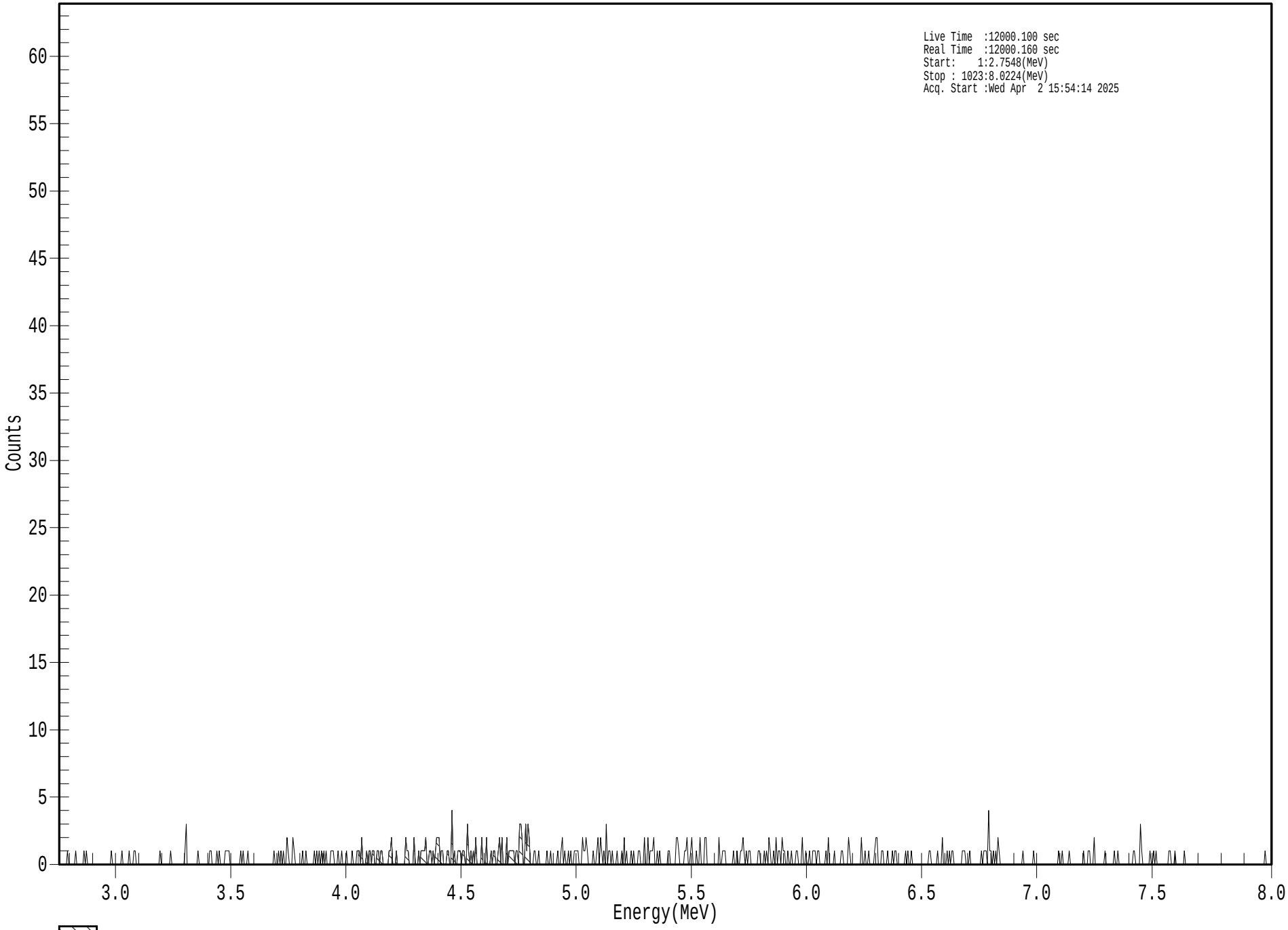
Detector Name: DET11
Sample Title: L1834667-02 WG2475924
Peak Analysis Performed on: 4/4/2025 11:37:25 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	253-	400	335.61	4479.50	5.15	1.01E+02	10.05	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R11247592407.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R13247592408.CNF

Report Generated On : 4/4/2025 11:37:43 AM

Sample Title : L1834667-03 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:16 PM

Live Time : 12000.3 seconds
Real Time : 12000.3 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

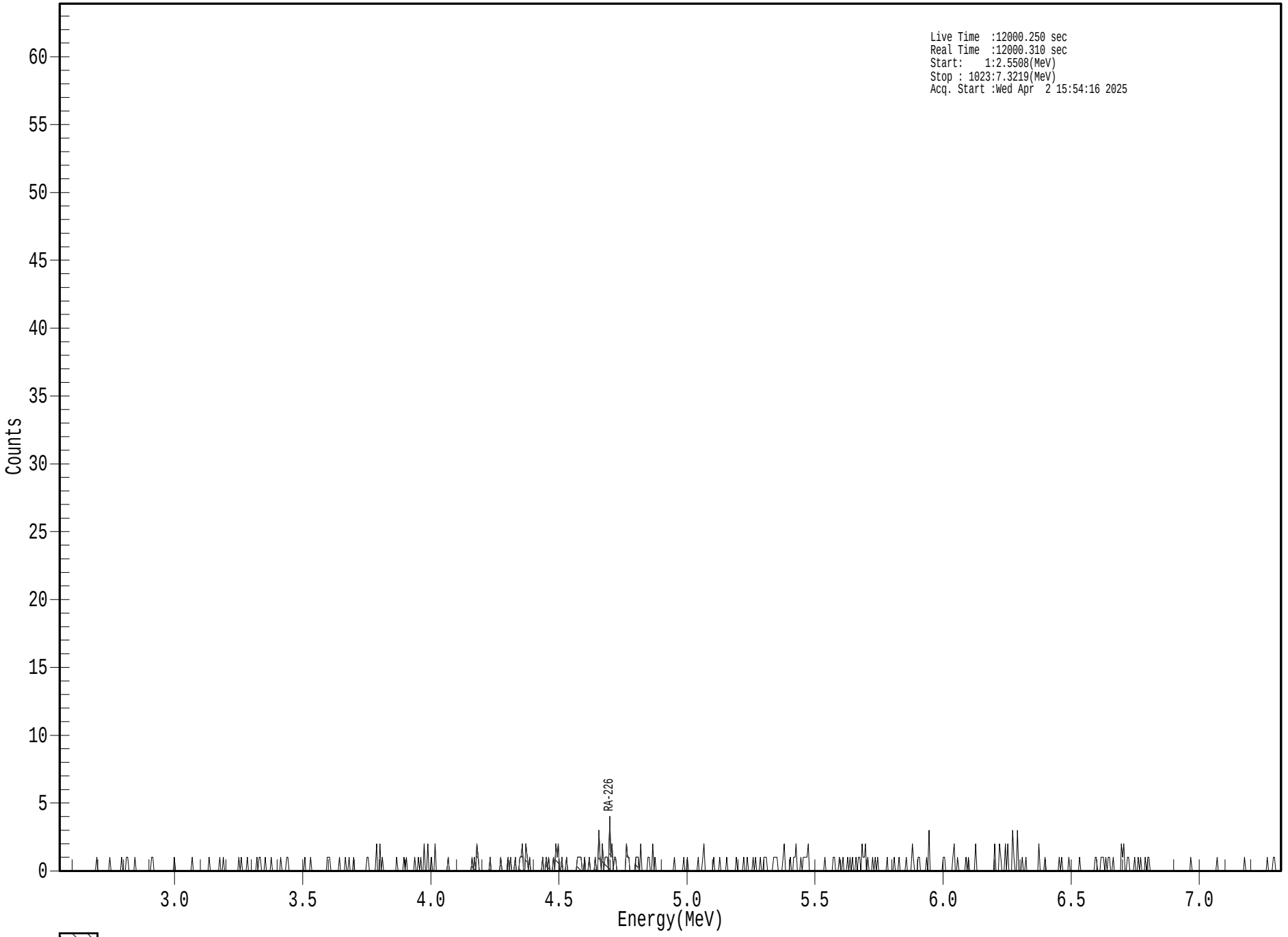
Detector Name: DET13
Sample Title: L1834667-03 WG2475924
Peak Analysis Performed on: 4/4/2025 11:37:43 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	322-	485	424.34	4527.15	5.45	6.20E+01	7.87	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R13247592408.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R01247592409.CNF

Report Generated On : 4/4/2025 11:38:00 AM

Sample Title : L1834667-04 WG2480102
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:18 PM

Live Time : 12000.3 seconds
Real Time : 12000.4 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

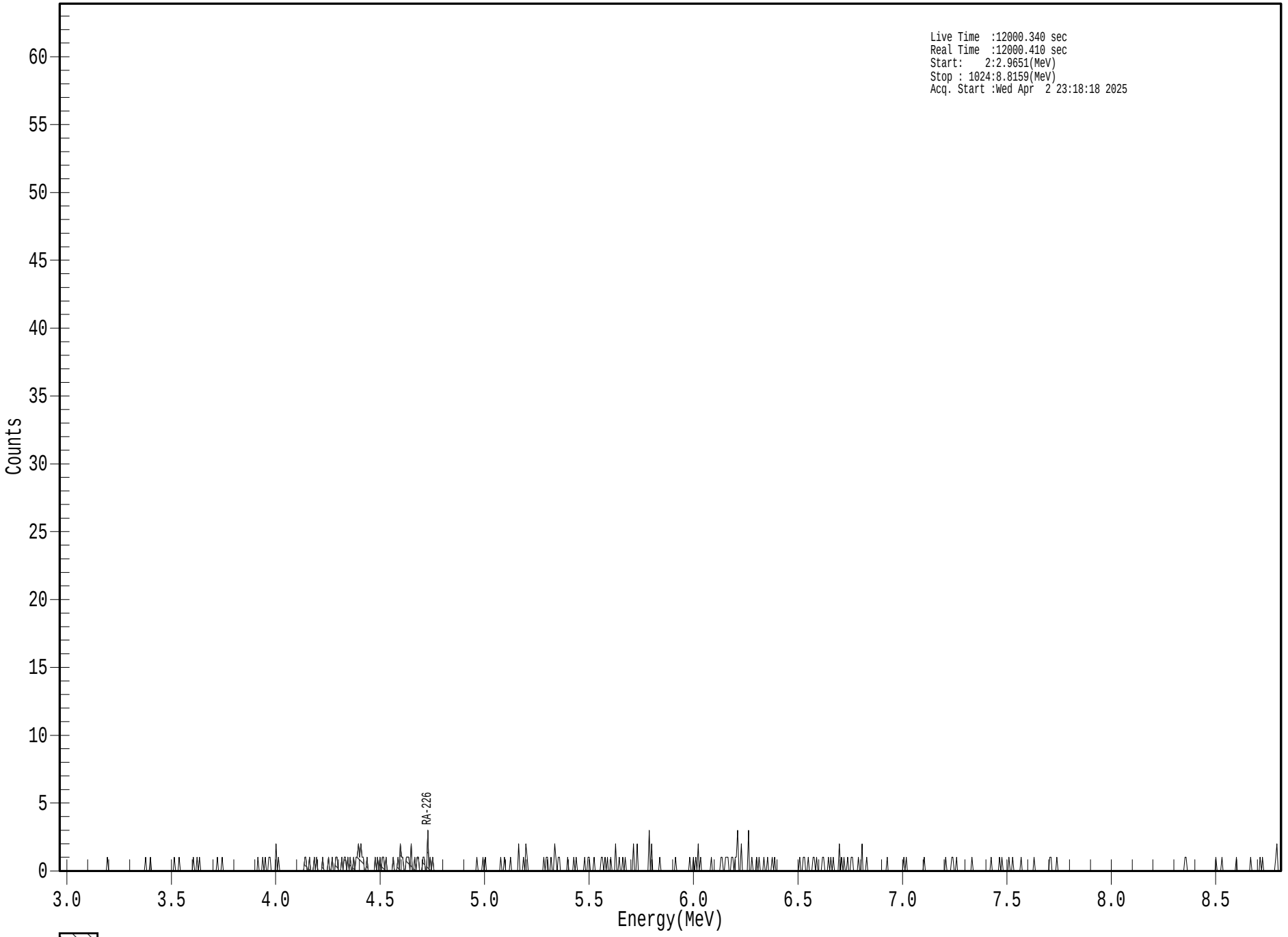
Detector Name: DET01
Sample Title: L1834667-04 WG2480102
Peak Analysis Performed on: 4/4/2025 11:38:00 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	192-	324	265.62	4474.29	5.72	5.30E+01	7.28	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R01247592409.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R19247592410.CNF

Report Generated On : 4/4/2025 11:38:21 AM

Sample Title : L1834667-05 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:20 PM

Live Time : 12000.5 seconds
Real Time : 13617.1 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

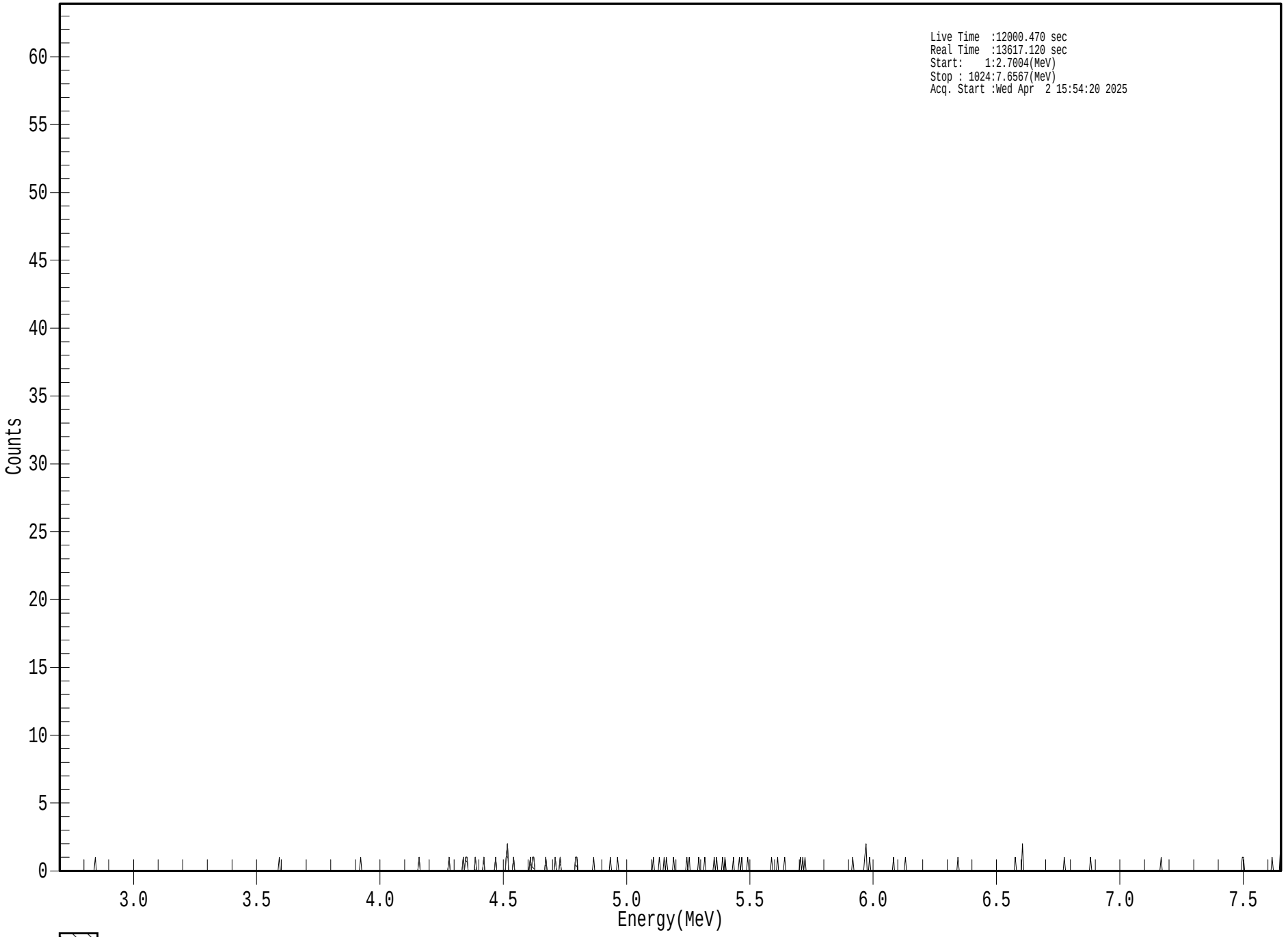
Detector Name: DET19
Sample Title: L1834667-05 WG2475924
Peak Analysis Performed on: 4/4/2025 11:38:21 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	280-	436	376.55	4519.92	7.27	2.00E+01	4.47	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R19247592410.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R20247592411.CNF

Report Generated On : 4/4/2025 11:38:39 AM

Sample Title : L1834667-06 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:22 PM

Live Time : 12000.2 seconds
Real Time : 13617.1 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

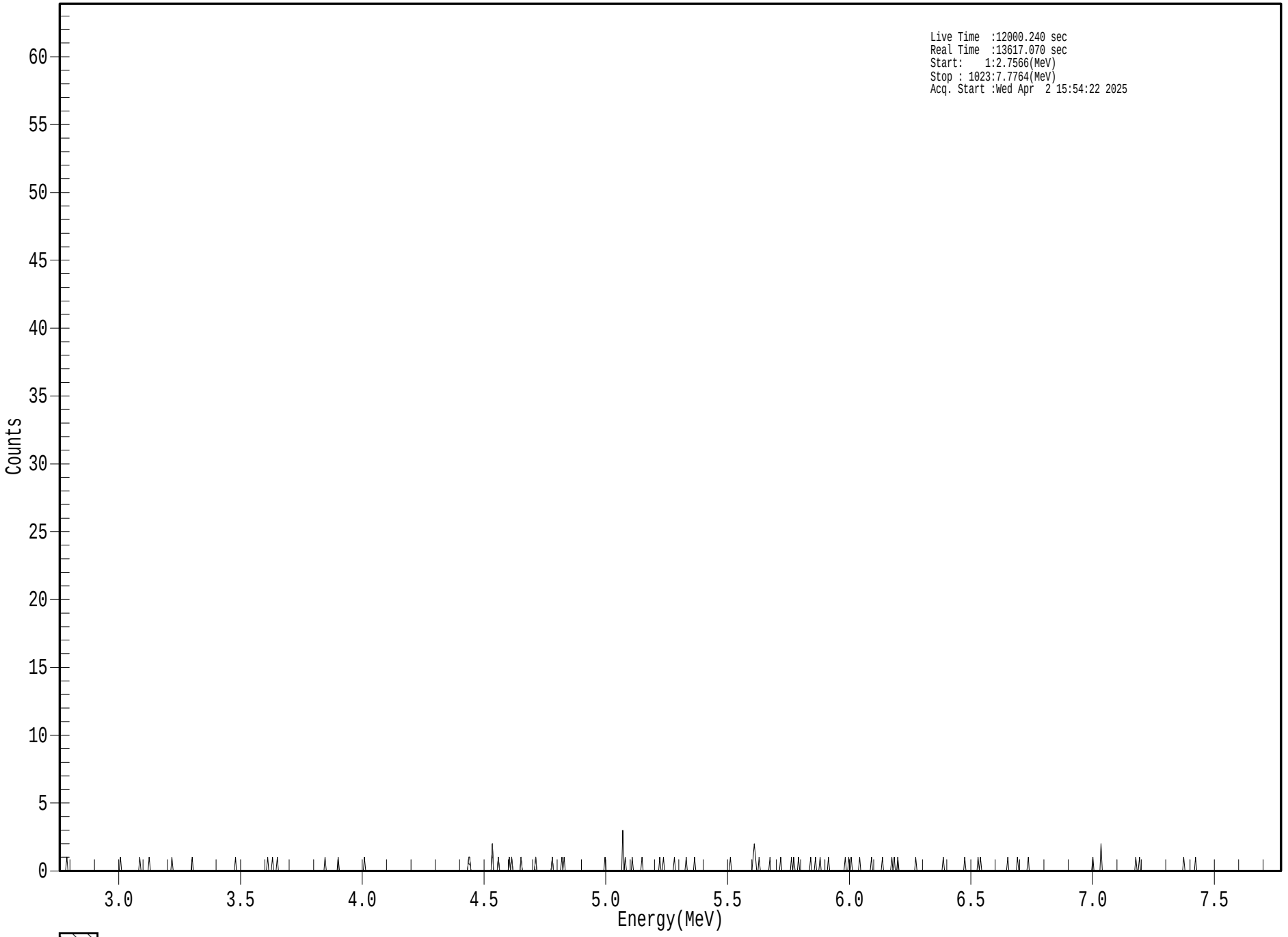
Detector Name: DET20
Sample Title: L1834667-06 WG2475924
Peak Analysis Performed on: 4/4/2025 11:38:39 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	265-	419	373.60	4586.74	4.91	1.00E+01	3.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R20247592411.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R21247592412.CNF

Report Generated On : 4/4/2025 11:38:59 AM

Sample Title : L1834667-07 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:35 PM

Live Time : 12000.5 seconds
Real Time : 12000.7 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

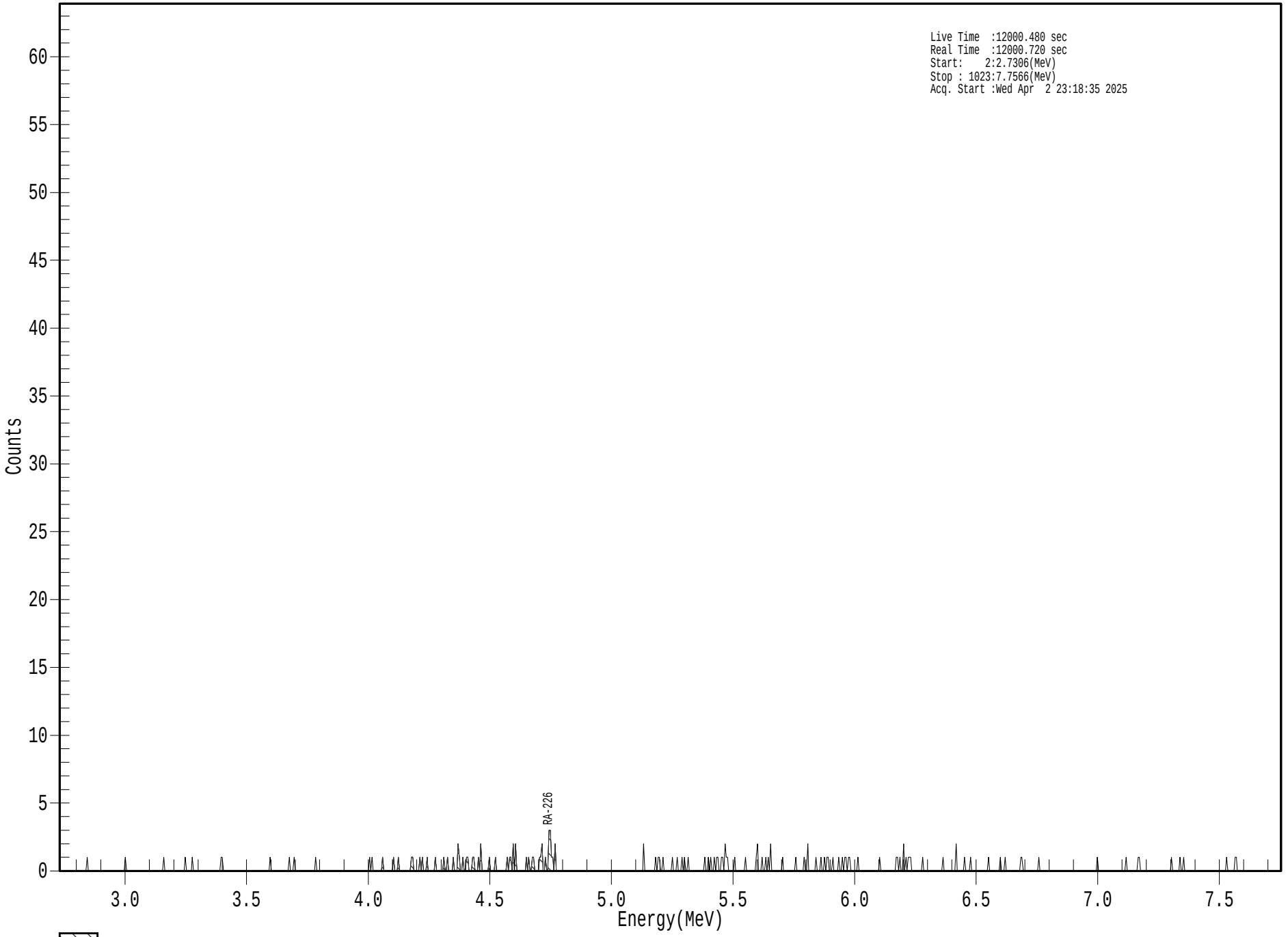
Detector Name: DET21
Sample Title: L1834667-07 WG2475924
Peak Analysis Performed on: 4/4/2025 11:38:59 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	270-	424	363.75	4511.34	11.08	5.10E+01	7.14	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R21247592412.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R23247592413.CNF

Report Generated On : 4/4/2025 11:39:25 AM

Sample Title : L1834667-08 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:36 PM

Live Time : 12000.3 seconds
Real Time : 12000.5 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

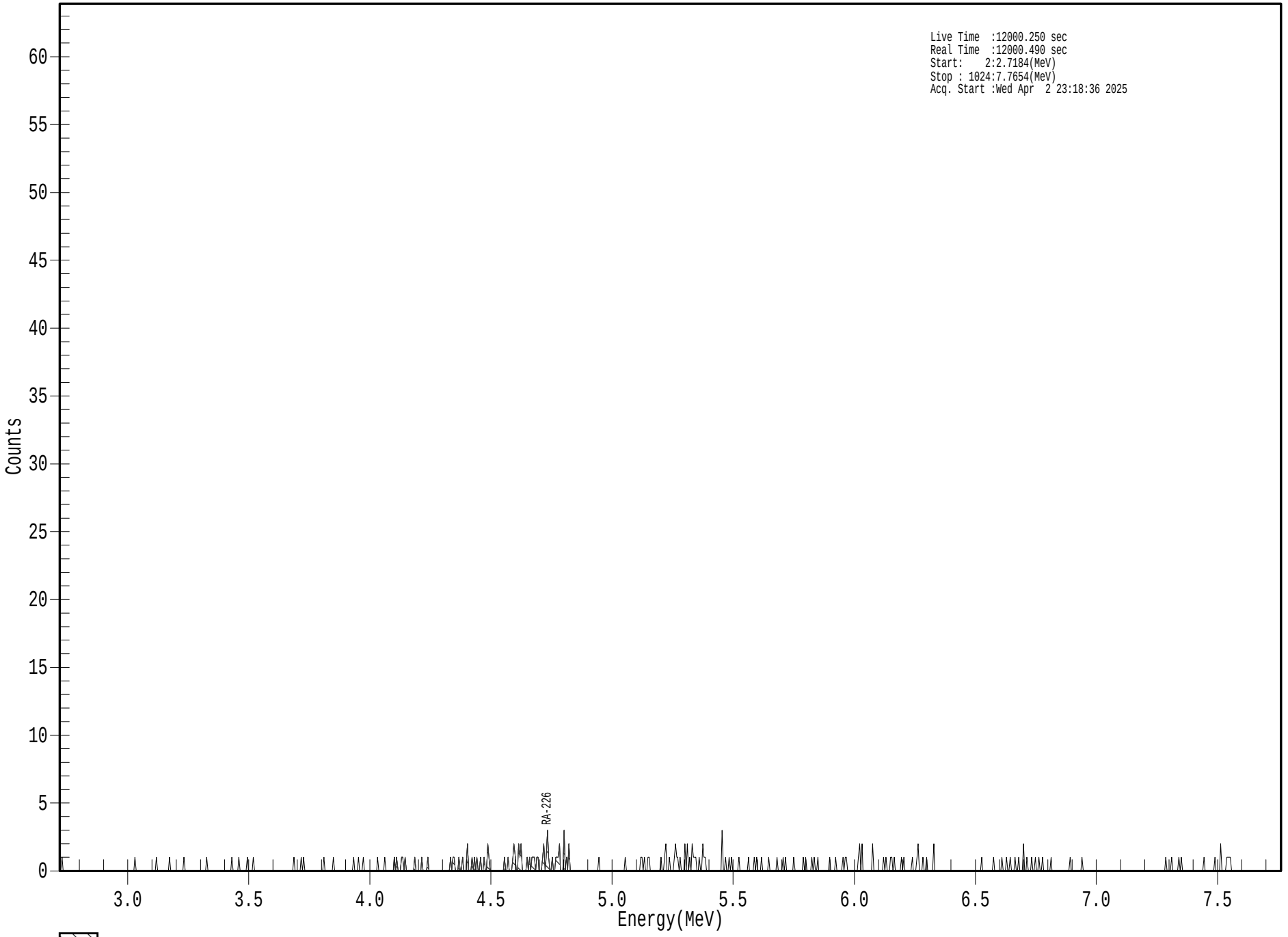
Detector Name: DET23
Sample Title: L1834667-08 WG2475924
Peak Analysis Performed on: 4/4/2025 11:39:25 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	276-	430	374.93	4560.09	7.41	6.10E+01	7.81	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R23247592413.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R24247592414.CNF

Report Generated On : 4/4/2025 11:39:44 AM

Sample Title : L1834667-09 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:38 PM

Live Time : 12000.2 seconds
Real Time : 12000.4 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

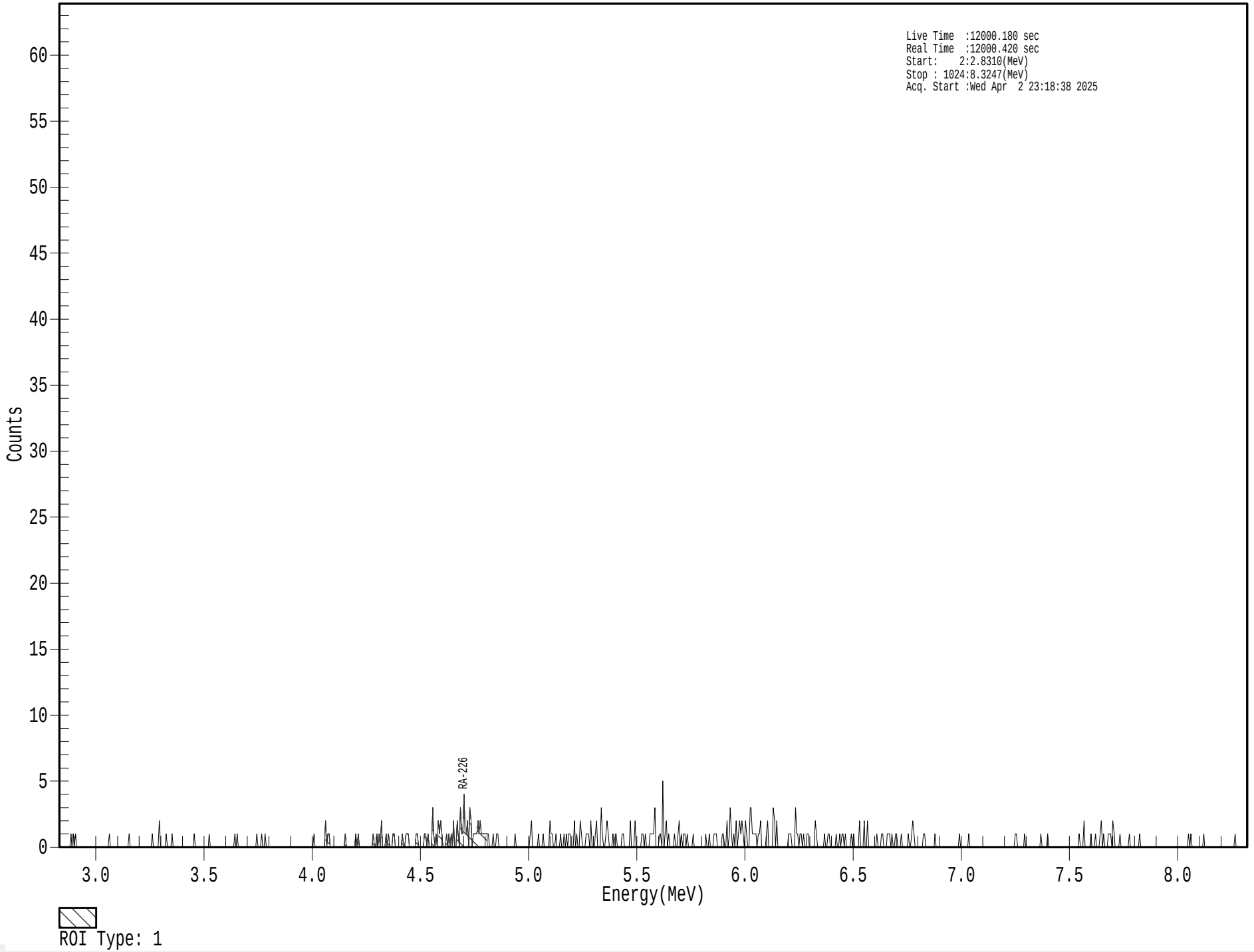
Detector Name: DET24
Sample Title: L1834667-09 WG2475924
Peak Analysis Performed on: 4/4/2025 11:39:44 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	229-	370	325.92	4572.25	7.17	7.70E+01	8.77	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R24247592414.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R25247592415.CNF

Report Generated On : 4/4/2025 11:40:02 AM

Sample Title : L1834667-10 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:29 PM

Live Time : 12000.0 seconds
Real Time : 13616.4 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

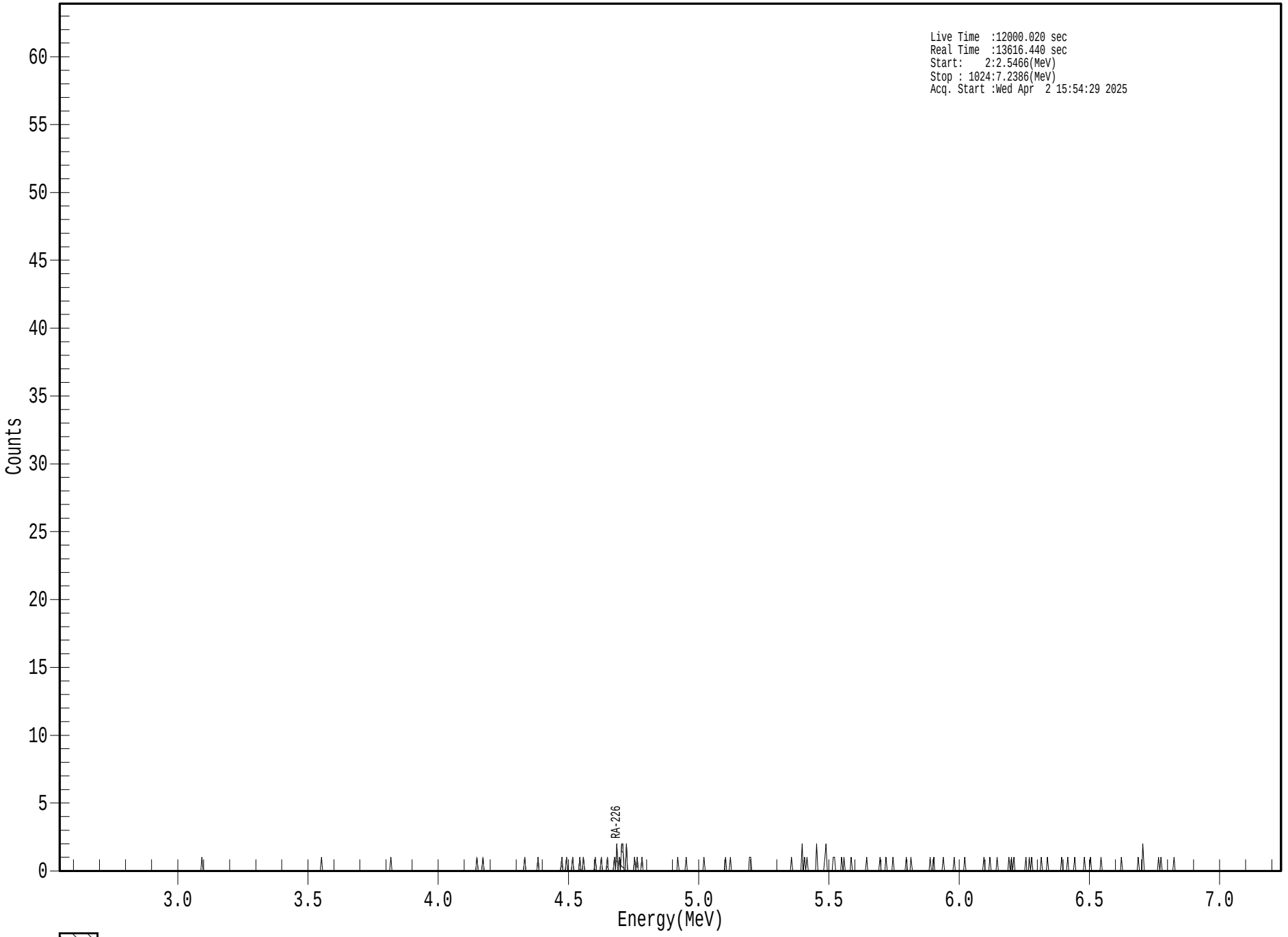
Detector Name: DET25
Sample Title: L1834667-10 WG2475924
Peak Analysis Performed on: 4/4/2025 11:40:02 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	330-	495	447.68	4592.74	4.59	2.50E+01	5.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R25247592415.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R26247592416.CNF

Report Generated On : 4/4/2025 11:40:21 AM

Sample Title : L1834667-11 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:30 PM

Live Time : 12000.1 seconds
Real Time : 13616.3 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

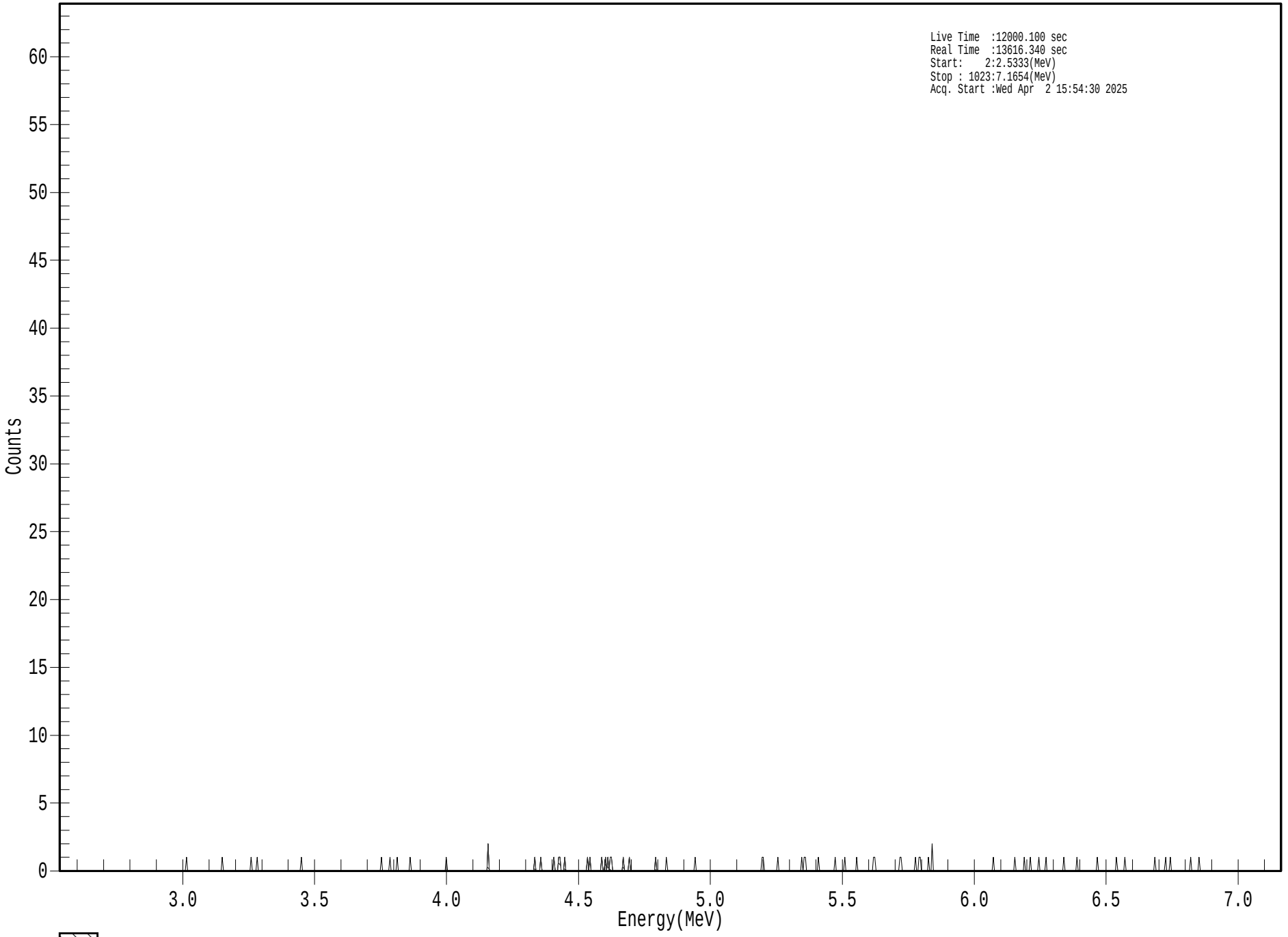
Detector Name: DET26
Sample Title: L1834667-11 WG2475924
Peak Analysis Performed on: 4/4/2025 11:40:21 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	337-	504	435.44	4499.78	4.54	1.80E+01	4.24	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R26247592416.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R27247592417.CNF

Report Generated On : 4/4/2025 11:40:42 AM

Sample Title : L1835561-01 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:32 PM

Live Time : 12000.0 seconds
Real Time : 13616.1 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

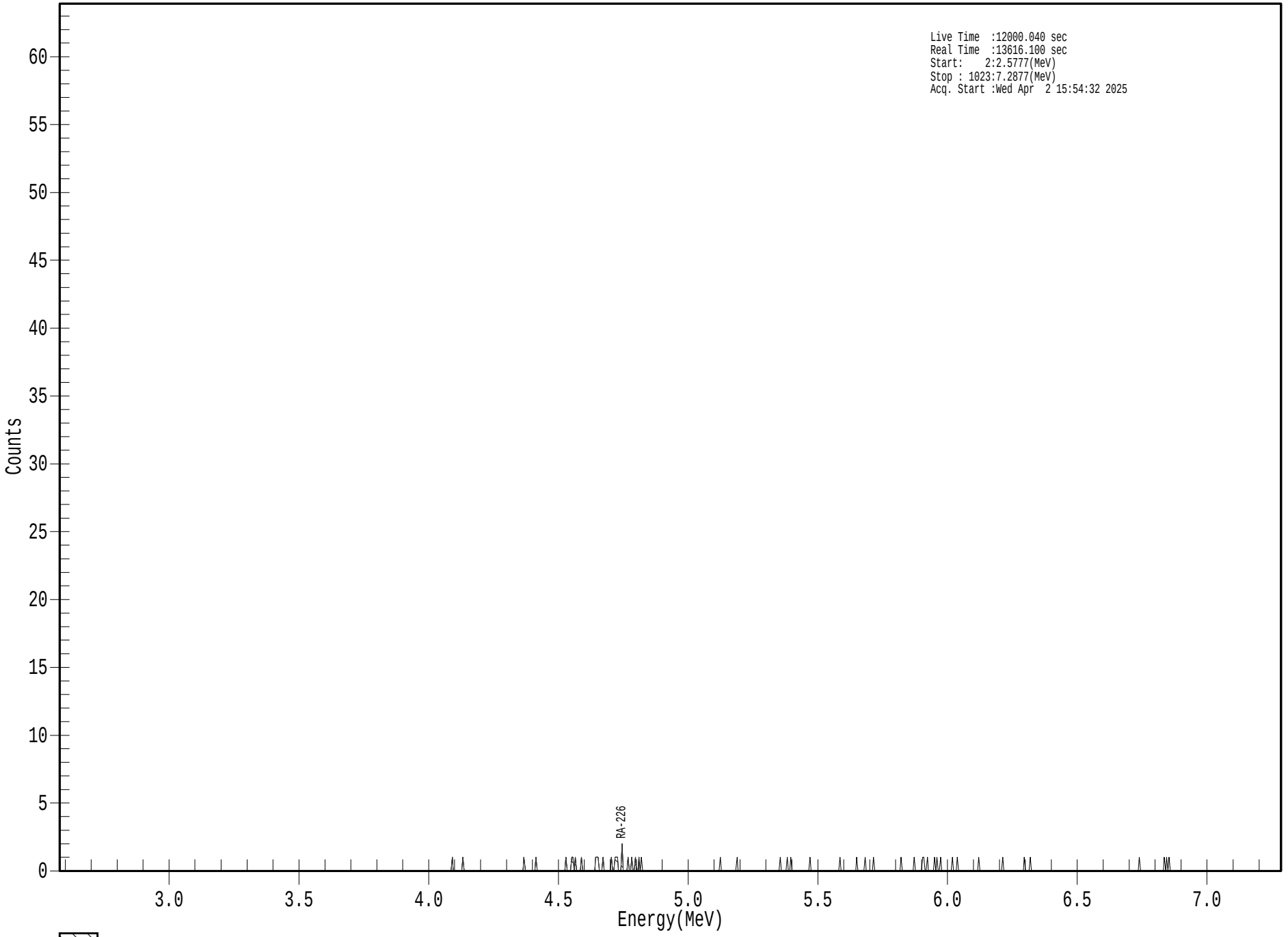
Detector Name: DET27
Sample Title: L1835561-01 WG2475924
Peak Analysis Performed on: 4/4/2025 11:40:42 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	321-	486	441.70	4606.07	4.61	2.30E+01	4.80	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R27247592417.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R28247592418.CNF

Report Generated On : 4/4/2025 11:41:01 AM

Sample Title : L1835561-02 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:33 PM

Live Time : 12000.1 seconds
Real Time : 13616.0 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

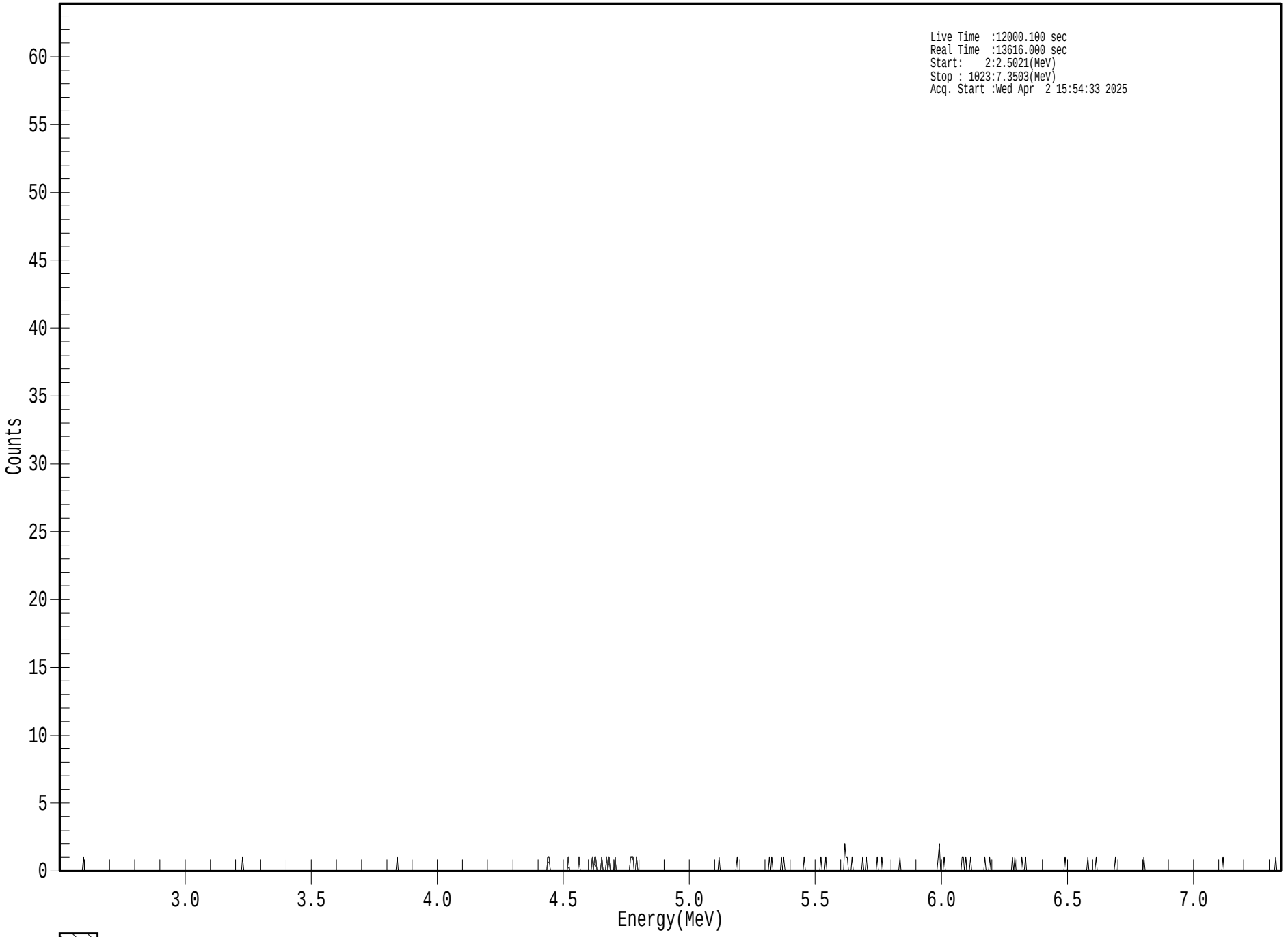
Detector Name: DET28
Sample Title: L1835561-02 WG2475924
Peak Analysis Performed on: 4/4/2025 11:41:01 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	328-	488	453.00	4643.66	9.50	1.50E+01	3.87	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R28247592418.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R29247592419.CNF

Report Generated On : 4/4/2025 11:41:25 AM

Sample Title : L1835561-03 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:35 PM

Live Time : 12000.1 seconds
Real Time : 13615.8 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

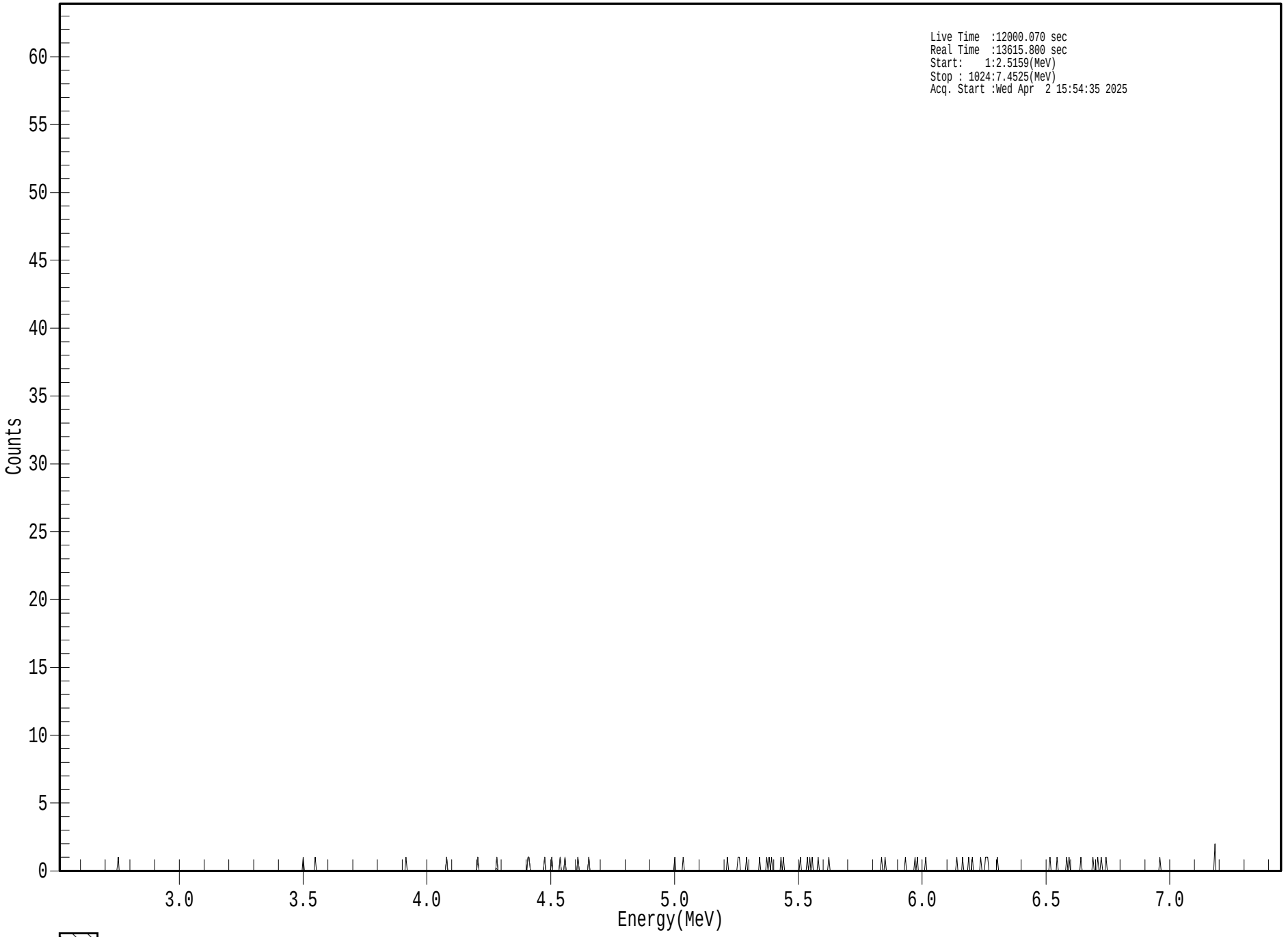
Detector Name: DET29
Sample Title: L1835561-03 WG2475924
Peak Analysis Performed on: 4/4/2025 11:41:25 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	319-	476	397.55	4429.49	4.83	1.10E+01	3.32	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R29247592419.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R30247592420.CNF

Report Generated On : 4/4/2025 11:41:43 AM

Sample Title : L1835561-04 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:36 PM

Live Time : 12000.0 seconds
Real Time : 13615.6 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

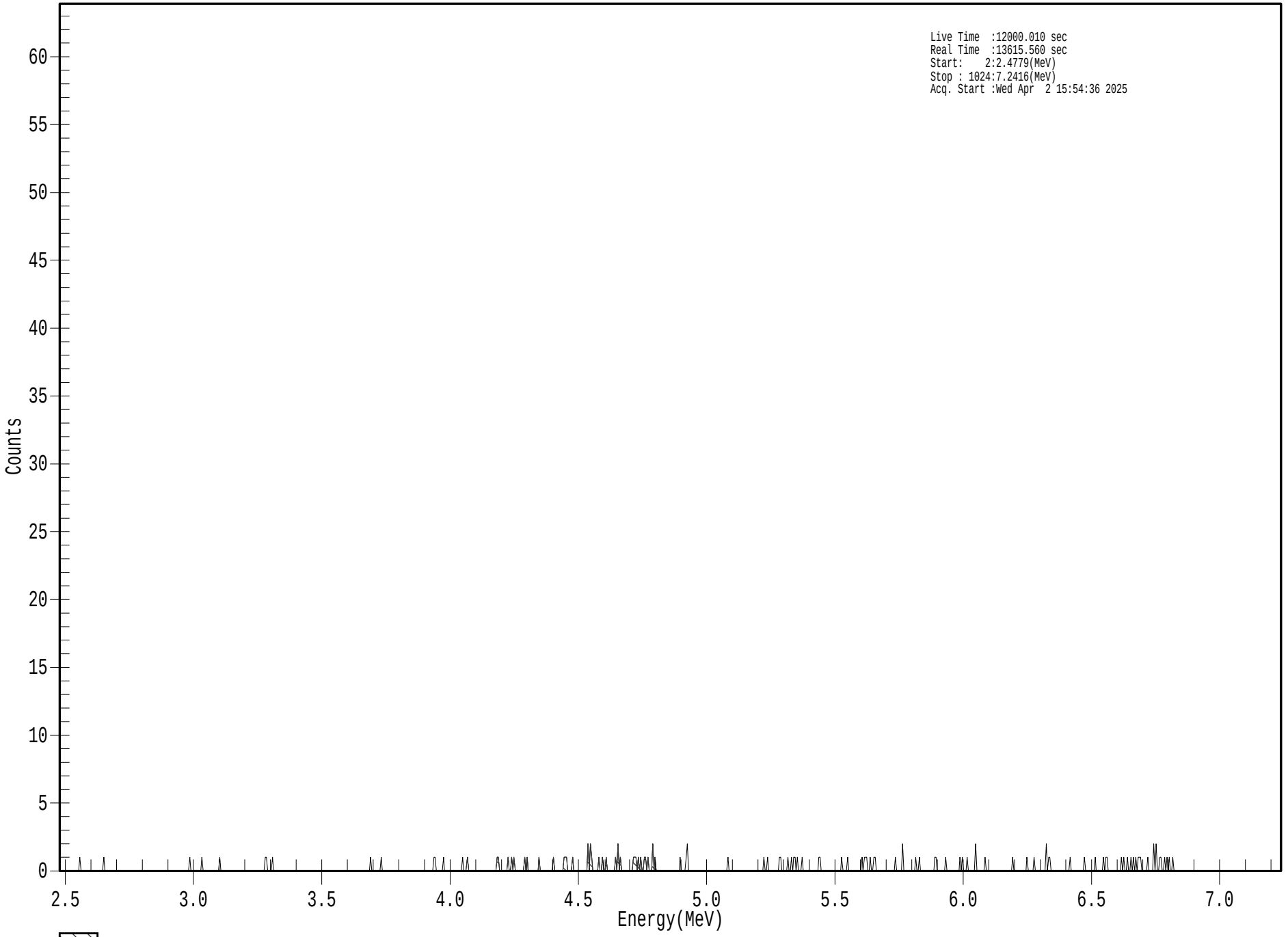
Detector Name: DET30
Sample Title: L1835561-04 WG2475924
Peak Analysis Performed on: 4/4/2025 11:41:43 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	340-	502	443.08	4533.85	4.66	3.70E+01	6.08	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R30247592420.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R32247592421.CNF

Report Generated On : 4/4/2025 11:42:09 AM

Sample Title : L1835561-05 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:38 PM

Live Time : 12000.0 seconds
Real Time : 13615.4 seconds

Dead Time : 11.86 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

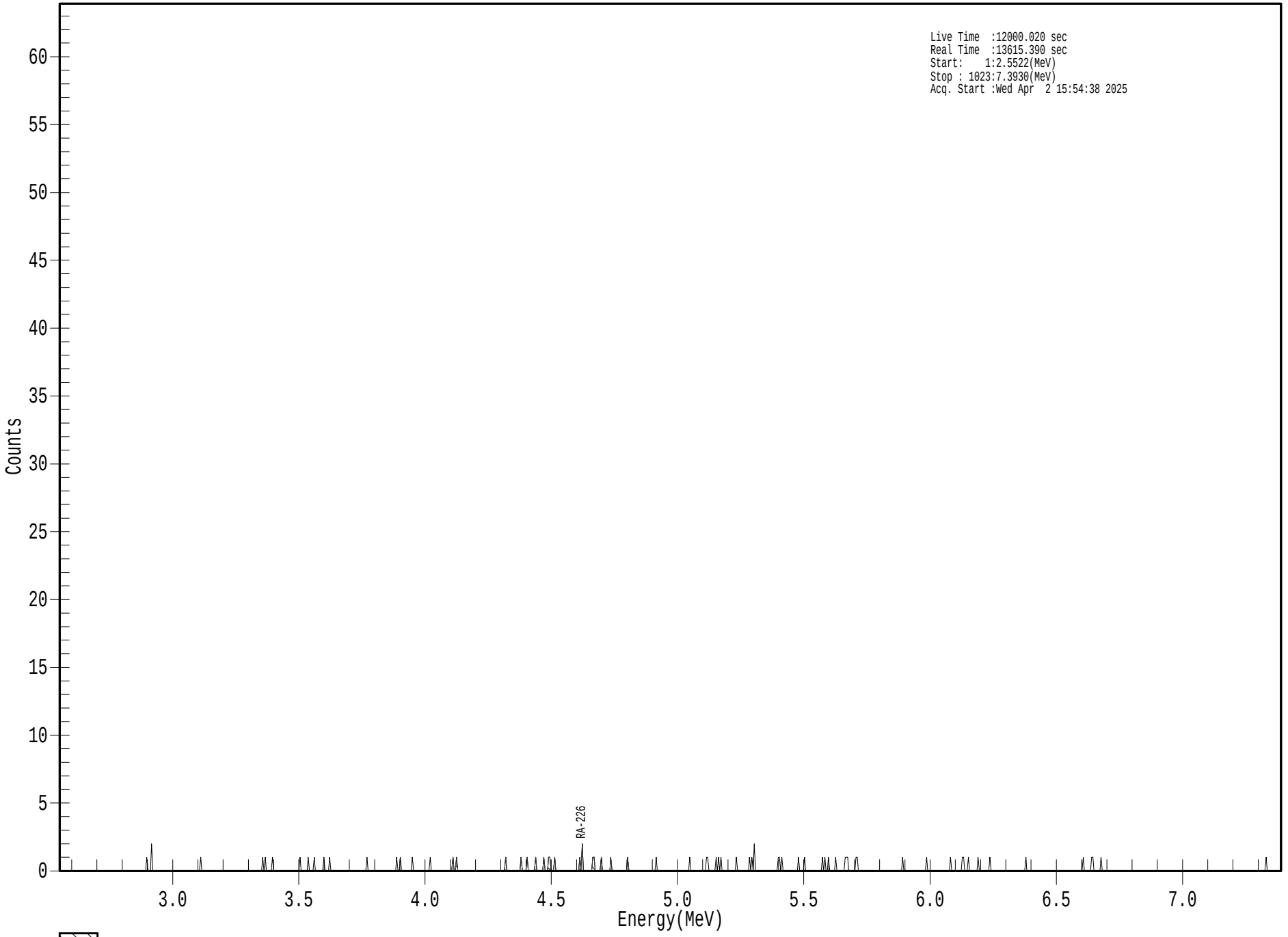
Detector Name: DET32
Sample Title: L1835561-05 WG2475924
Peak Analysis Performed on: 4/4/2025 11:42:09 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	318-	477	414.22	4509.49	4.74	1.80E+01	4.24	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R32247592421.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R02247592422.CNF

Report Generated On : 4/4/2025 11:42:29 AM

Sample Title : L1835561-06 WG2480102
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:19 PM

Live Time : 12000.3 seconds
Real Time : 12000.4 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

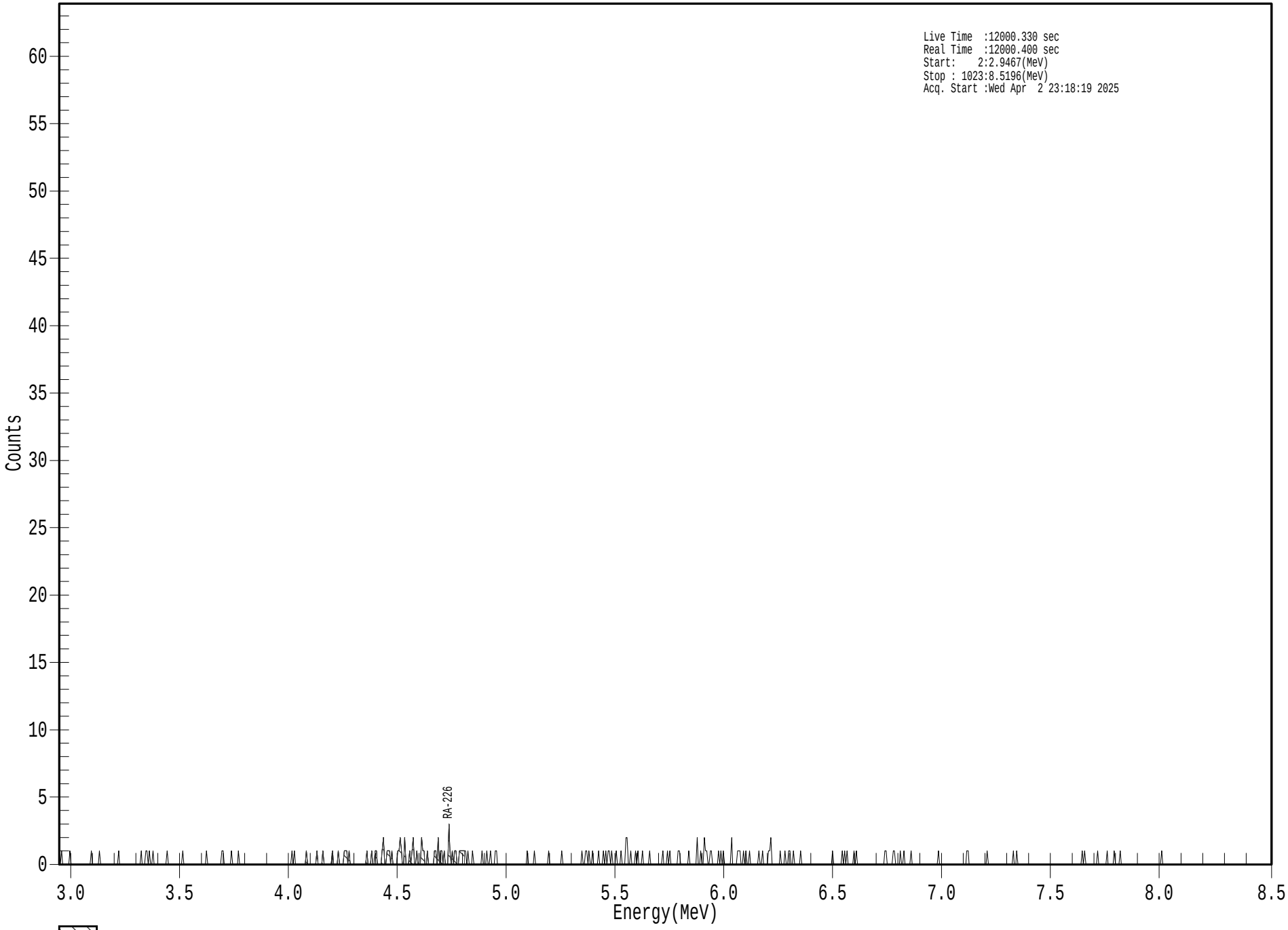
Detector Name: DET02
Sample Title: L1835561-06 WG2480102
Peak Analysis Performed on: 4/4/2025 11:42:29 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	204-	343	293.86	4539.75	6.82	5.60E+01	7.48	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R02247592422.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R03247592423.CNF

Report Generated On : 4/4/2025 11:42:47 AM

Sample Title : L1835561-07 WG2480102
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:20 PM

Live Time : 12000.1 seconds
Real Time : 12000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

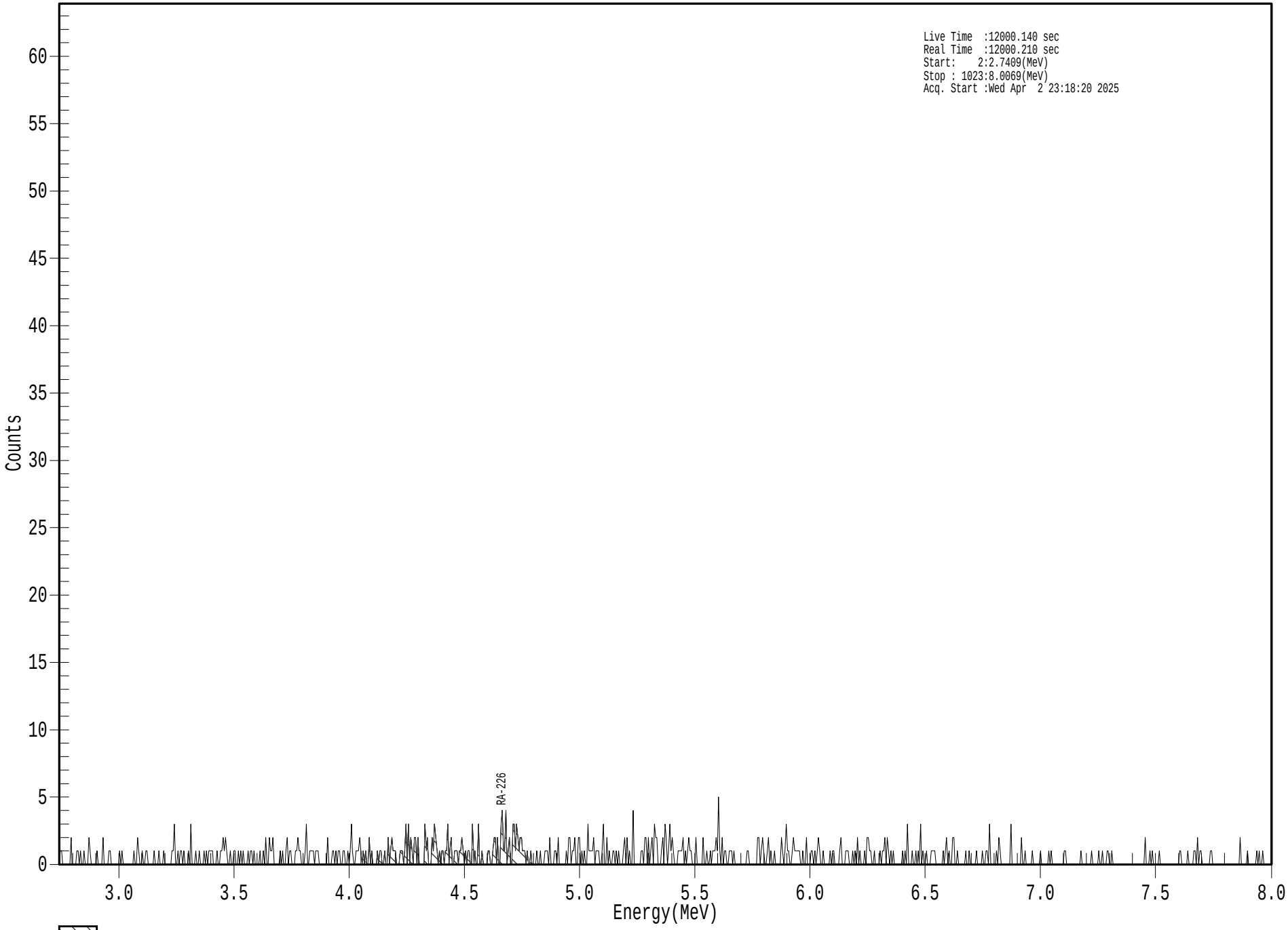
Detector Name: DET03
Sample Title: L1835561-07 WG2480102
Peak Analysis Performed on: 4/4/2025 11:42:47 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	256-	403	336.08	4463.97	10.32	1.29E+02	11.36	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R03247592423.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R37247592424.CNF

Report Generated On : 4/4/2025 11:43:09 AM

Sample Title : L1835561-09 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:52 PM

Live Time : 12000.0 seconds
Real Time : 12000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

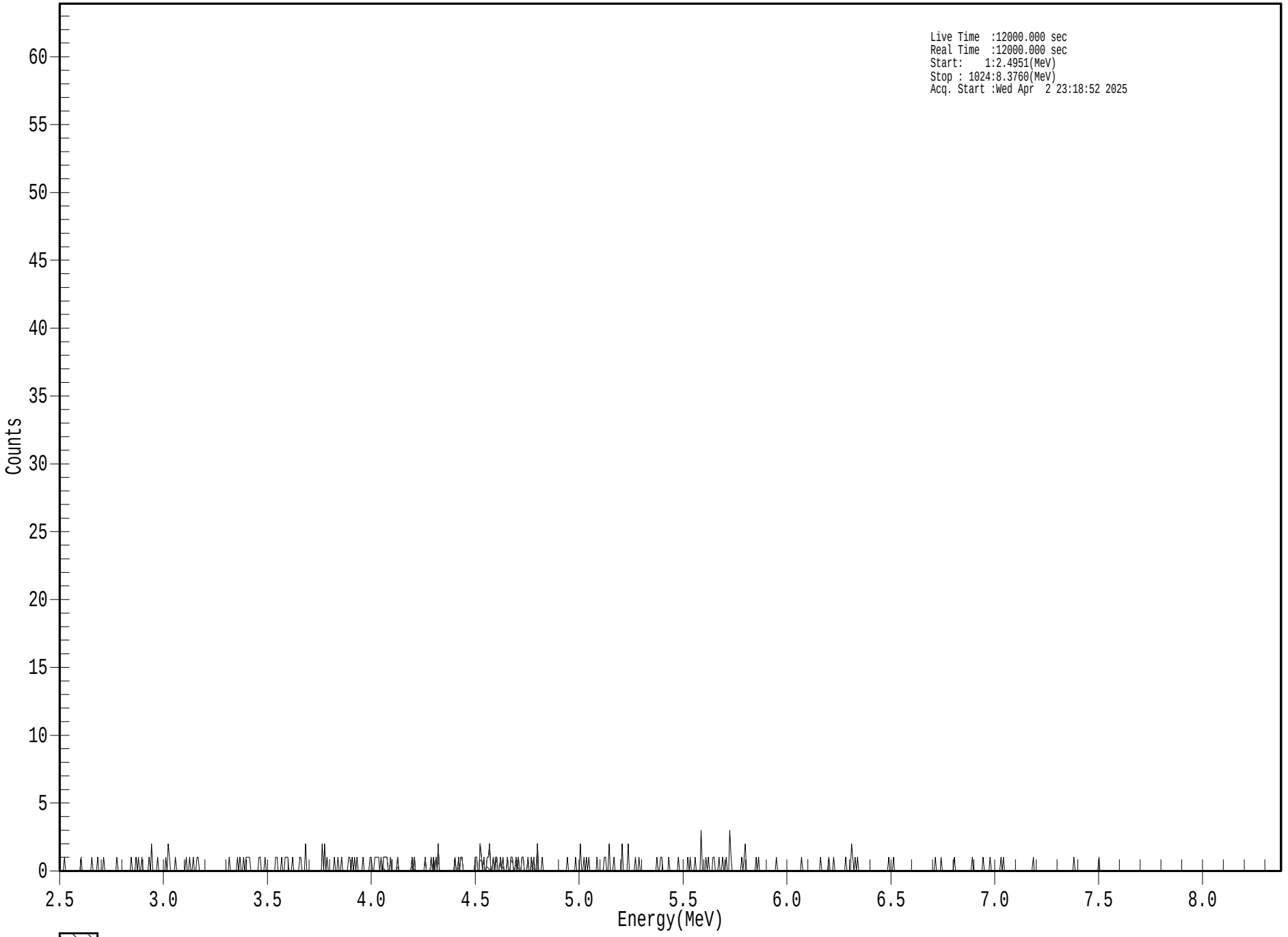
Detector Name: A_4_3A
Sample Title: L1835561-09 WG2475924
Peak Analysis Performed on: 4/4/2025 11:43:09 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	272-	403	345.36	4474.70	5.75	4.50E+01	6.71	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R37247592424.CNF



WG2475924 Ba-133 Recovery
Sample Order Verified by ZRG3837

Sample ID	Gamma	LT	Analyst	Start	End
BKGD01	1580	8	IJM3838	4/1/2025 15:52	4/1/2025 16:00
STD1	10560	8	IJM3838	4/1/2025 16:01	4/1/2025 16:09
STD2	13087	8	IJM3838	4/1/2025 16:09	4/1/2025 16:17
BLANK WG2475924	12735	8	IJM3838	4/1/2025 16:17	4/1/2025 16:25
LCS WG2475924	11627	8	IJM3838	4/1/2025 16:26	4/1/2025 16:34
MS L1835561-05 WG2475924	12965	8	IJM3838	4/1/2025 16:34	4/1/2025 16:42
MSD L1835561-05 WG2475924	12745	8	IJM3838	4/1/2025 16:42	4/1/2025 16:50
DUP L1834667-08 WG2475924	13696	8	IJM3838	4/1/2025 16:51	4/1/2025 16:59
L1834667-01 WG2475924	13353	8	IJM3838	4/1/2025 16:59	4/1/2025 17:07
L1834667-02 WG2475924	13560	8	IJM3838	4/1/2025 17:07	4/1/2025 17:15
L1834667-03 WG2475924	12836	8	IJM3838	4/1/2025 17:15	4/1/2025 17:23
L1834667-04 WG2475924	13230	8	IJM3838	4/1/2025 17:24	4/1/2025 17:32
L1834667-05 WG2475924	12868	8	IJM3838	4/1/2025 17:32	4/1/2025 17:40
L1834667-06 WG2475924	13208	8	IJM3838	4/1/2025 17:40	4/1/2025 17:48
L1834667-07 WG2475924	13220	8	IJM3838	4/1/2025 17:49	4/1/2025 17:57
L1834667-08 WG2475924	12550	8	IJM3838	4/1/2025 17:57	4/1/2025 18:05
L1834667-09 WG2475924	13169	8	IJM3838	4/1/2025 18:05	4/1/2025 18:13
L1834667-10 WG2475924	12863	8	IJM3838	4/1/2025 18:14	4/1/2025 18:22
L1834667-11 WG2475924	13403	8	IJM3838	4/1/2025 18:22	4/1/2025 18:30
L1835561-01 WG2475924	12290	8	IJM3838	4/1/2025 18:30	4/1/2025 18:38
L1835561-02 WG2475924	12623	8	IJM3838	4/1/2025 18:39	4/1/2025 18:47
L1835561-03 WG2475924	12405	8	IJM3838	4/1/2025 18:47	4/1/2025 18:55
L1835561-04 WG2475924	12076	8	IJM3838	4/1/2025 18:55	4/1/2025 19:03
L1835561-05 WG2475924	11974	8	IJM3838	4/1/2025 19:03	4/1/2025 19:11
L1835561-06 WG2475924	12231	8	IJM3838	4/1/2025 19:12	4/1/2025 19:20
L1835561-07 WG2475924	9128	8	IJM3838	4/1/2025 19:20	4/1/2025 19:28
L1835561-09 WG2475924	12341	8	IJM3838	4/1/2025 19:28	4/1/2025 19:36
BKGD01	1587	8	IJM3838	4/1/2025 19:37	4/1/2025 19:45
STD1	10668	8	IJM3838	4/1/2025 19:45	4/1/2025 19:53
STD2	12936	8	IJM3838	4/1/2025 19:54	4/1/2025 20:02
Recounts					
BKGD01	1605	8	ZRG3837	4/3/2025 14:38	4/3/2025 14:46
STD1	13988	8	ZRG3837	4/3/2025 14:46	4/3/2025 14:54
STD2	13305	8	ZRG3837	4/3/2025 14:54	4/3/2025 15:02
BLANK WG2475924	12259	8	ZRG3837	4/3/2025 15:03	4/3/2025 15:11
LCS WG2475924	12318	8	ZRG3837	4/3/2025 15:11	4/3/2025 15:19
MS L1835561-05 WG2475924	13428	8	ZRG3837	4/3/2025 15:19	4/3/2025 15:27
MSD L1835561-05 WG2475924	13293	8	ZRG3837	4/3/2025 15:28	4/3/2025 15:36
DUP L1834667-08 WG2475924	13742	8	ZRG3837	4/3/2025 15:36	4/3/2025 15:44
L1834667-01 WG2475924	13452	8	ZRG3837	4/3/2025 15:44	4/3/2025 15:52
L1834667-02 WG2475924	13639	8	ZRG3837	4/3/2025 15:52	4/3/2025 16:00
L1834667-03 WG2475924	12929	8	ZRG3837	4/3/2025 16:01	4/3/2025 16:09
L1834667-04 WG2475924	13184	8	ZRG3837	4/3/2025 16:09	4/3/2025 16:17
L1834667-05 WG2475924	13570	8	ZRG3837	4/3/2025 16:17	4/3/2025 16:25
L1834667-06 WG2475924	13018	8	ZRG3837	4/3/2025 16:26	4/3/2025 16:34
L1834667-07 WG2475924	14090	8	ZRG3837	4/3/2025 16:34	4/3/2025 16:42
L1834667-08 WG2475924	12944	8	ZRG3837	4/3/2025 16:42	4/3/2025 16:50
L1834667-09 WG2475924	13230	8	ZRG3837	4/3/2025 16:51	4/3/2025 16:59
L1834667-10 WG2475924	12787	8	ZRG3837	4/3/2025 16:59	4/3/2025 17:07
L1834667-11 WG2475924	13547	8	ZRG3837	4/3/2025 17:07	4/3/2025 17:15
L1835561-01 WG2475924	12462	8	ZRG3837	4/3/2025 17:16	4/3/2025 17:24
L1835561-02 WG2475924	12375	8	ZRG3837	4/3/2025 17:24	4/3/2025 17:32
L1835561-03 WG2475924	12616	8	ZRG3837	4/3/2025 17:32	4/3/2025 17:40
L1835561-04 WG2475924	12026	8	ZRG3837	4/3/2025 17:41	4/3/2025 17:49
L1835561-05 WG2475924	12379	8	ZRG3837	4/3/2025 17:49	4/3/2025 17:57
L1835561-06 WG2475924	12420	8	ZRG3837	4/3/2025 17:57	4/3/2025 18:05
L1835561-07 WG2475924	9159	8	ZRG3837	4/3/2025 18:05	4/3/2025 18:13
L1835561-09 WG2475924	12423	8	ZRG3837	4/3/2025 18:14	4/3/2025 18:22
BKGD01	1557	8	ZRG3837	4/3/2025 18:22	4/3/2025 18:30
STD1	14081	8	ZRG3837	4/3/2025 18:31	4/3/2025 18:39
STD2	13283	8	ZRG3837	4/3/2025 18:39	4/3/2025 18:47

Alpha Spectrometer Efficiency Calibration

April-25

CERTIFICATE

STANDARD ID	SOURCE TYPE	Th230 (DPM) ALPHA	Pu239 (DPM) ALPHA	Am241 (DPM) ALPHA	PREP DATE	EXPIRATION DATE	ANALYST
AS-MIX-030424-1	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-2	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-3	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-4	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-5	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-6	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-7	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-8	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-9	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-03042410	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-03042411	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-03042412	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE

Samples were prepared by pipetting 1 ml Th-230(23H20597), 1 ml Am-241(18A26705) and 5 ml Pu-239(18L06878) standards into beaker of 50 ml 1 N HCl and precipitating as NdF.
The ppt was mounted on a 25mm 0.1 micron filter.

DECAY CALCUALTION

Th230 Source
124007
ESC51614
23H20597

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	12-Feb-24

Ao =	1011.72	nCi
N =	0.00	
T(1/2) =	77000.00	years
T =	1.47	years
dilution =	1000.00	
A =	1011.70	nCi
A =	2245.98	dpm/ml
A =	1011.70	pCi/ml

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404-352-8677
Fax 404-352-2837
www.ezag.com

Rad
1 x 5 mL

CERTIFICATE OF CALIBRATION

ESC51614

Standard Reference Source

SRS Number: 124007
Source Description: 5 mL Liquid in 5 mL Flame Sealed Ampoule
Product Code: 8230
Customer: ESC Lab Sciences, dba Pace Analytical
P.O. Number: GDIT-09157, Item 6

This standard radionuclide source was prepared gravimetrically from a master solution calibrated by Eckert & Ziegler Analytics (EZA). The master solution was calibrated by liquid scintillation counting. Radionuclide calibration and purity were checked by germanium gamma-ray spectrometry, liquid scintillation counting, and/or alpha spectrometry, as applicable. The nuclear decay rate and reference date for this source are given below. EZA maintains traceability to the National Institute of Standards and Technology (NIST) through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST."

Reference Date: 25-August-2022 12:00 PM EST

Isotope	Half-Life, d	Activity, Bq	Uncertainty u_A, %	u_B, %	U, %*	Calibration Method**
Th-230	2.753E+07	3.743E+04	0.2	1.0	2.1	4π LS

*Uncertainty: U - Relative expanded uncertainty, $k = 2$. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results." **Calibration Methods: 4π LS - 4π Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber.

(Certificate continued on reverse side)

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

SRS Number: 124002

Comments:
5.08382 g of 0.5 M HNO_3 solution, carrier free.

Impurities:
α-impurities (other than decay products) < 0.1%
γ-impurities (other than decay products) < 0.1%

This source was wipe tested in its inactive areas with leak test results < 185 Bq (5 nCi) of removable activity per ISO 9978:1992.

Source Prepared by: _____
H. Salvo, Radiochemist

QC Approved by: _____ Date: 18-AUG-22
J. Lahr, Spectroscopist

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Calibrations\021825\01\01_REPORT.CNF

Report Generated On : 2/20/2025 12:54:39 PM

Sample Title : DET 01 SC 021925
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 2/17/2025 8:43:33 PM

Live Time : 600.5 seconds
Real Time : 601.3 seconds

Dead Time : 0.14 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 6/13/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

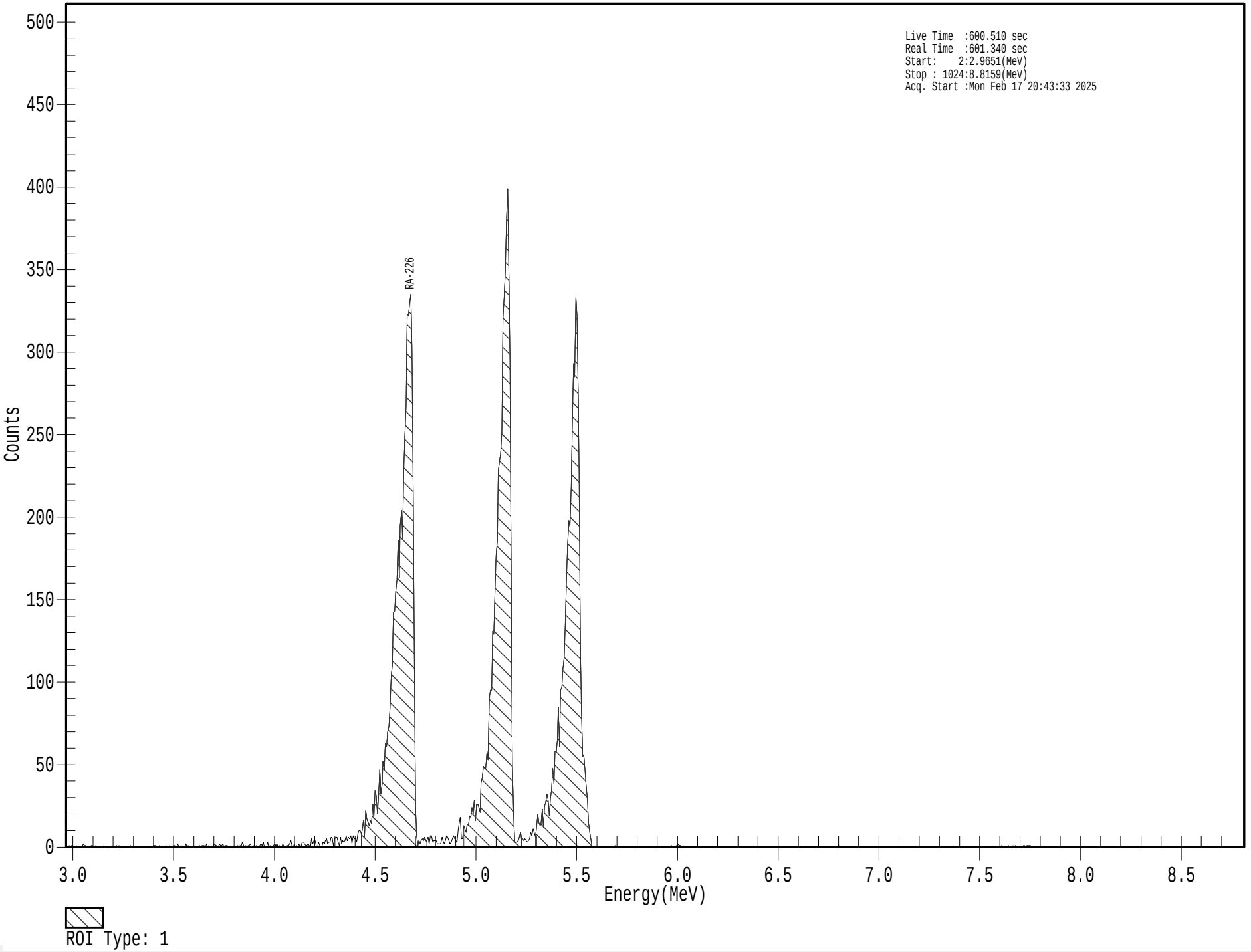
Detector Name: DET01
Sample Title: DET 01 SC 021925
Peak Analysis Performed on: 2/20/2025 12:54:39 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

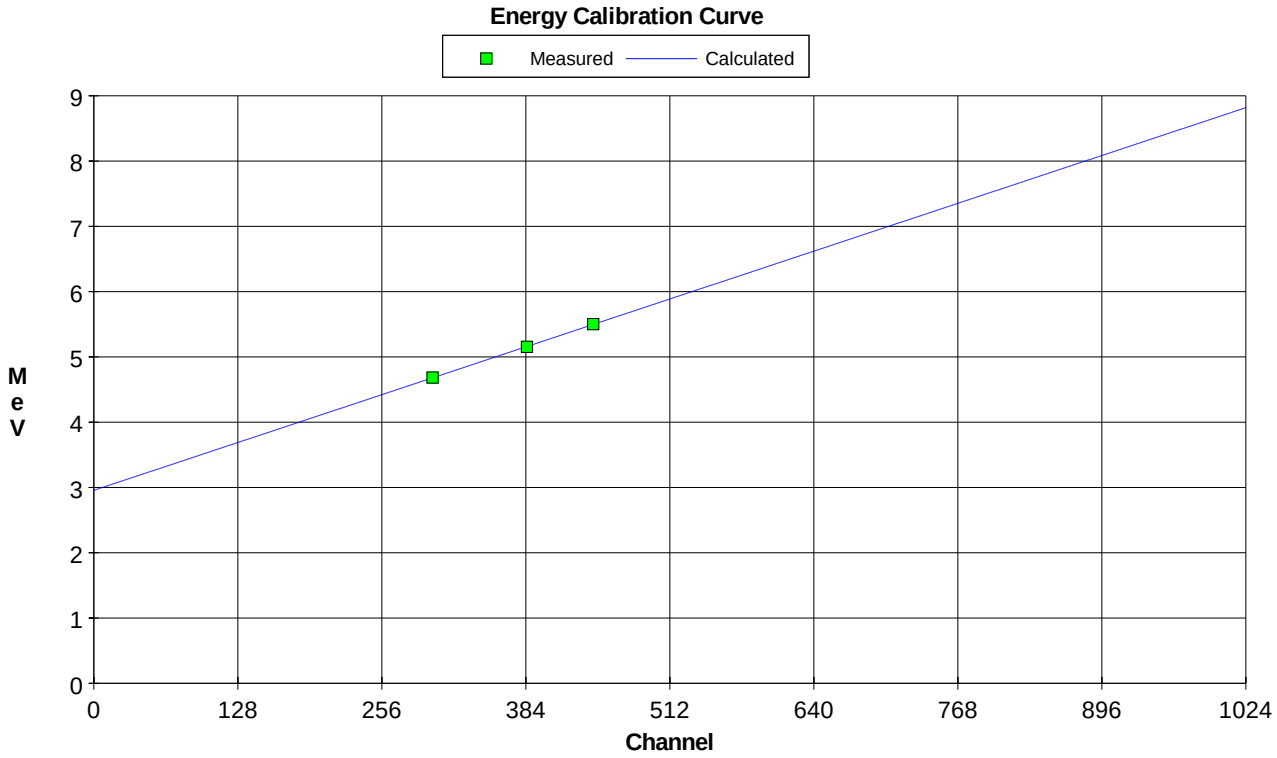
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	258-	315	292.36	4627.37	70.79	5.37E+03	73.30	0.00E+00
2	347-	397	378.37	5119.73	64.98	5.31E+03	72.88	0.00E+00
3	409-	460	438.89	5466.23	65.42	4.67E+03	68.34	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

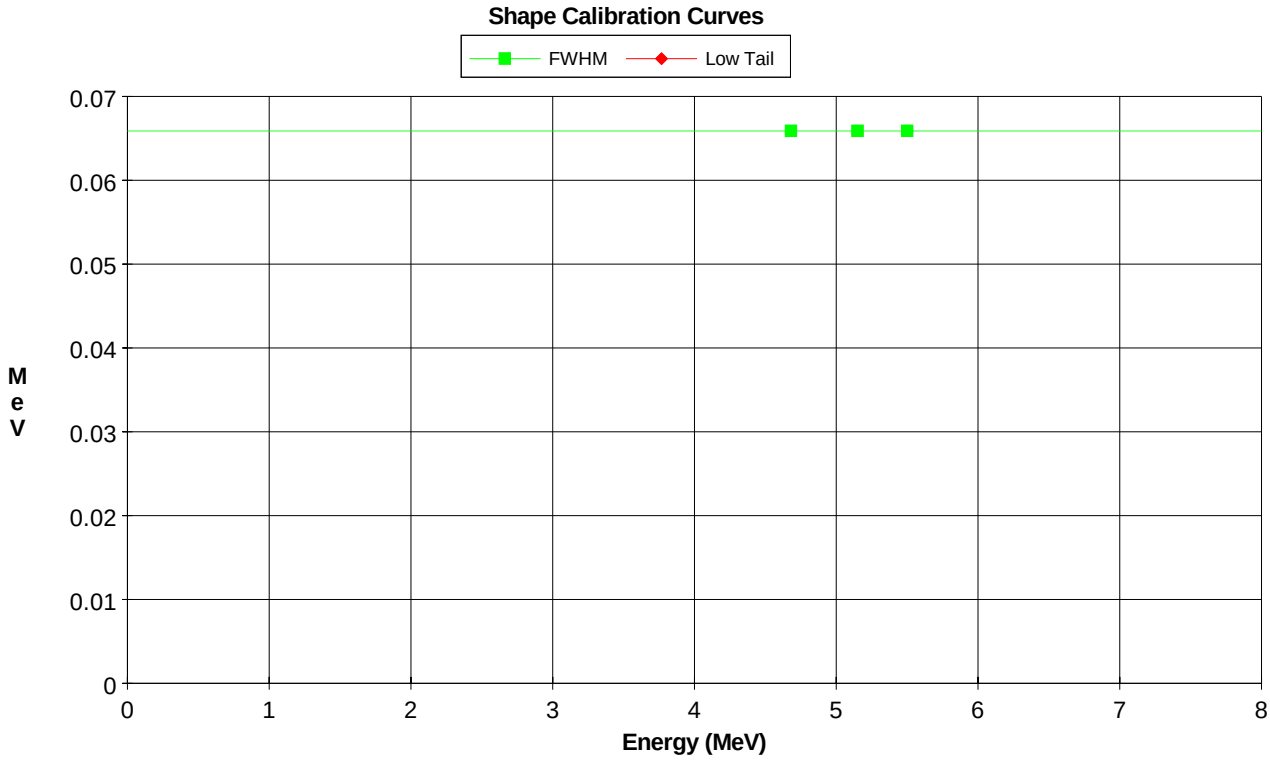
01_REPORT.CNF





Datasource: DET01
Energy = 2.954e+000 MeV + 5.725e-003*Ch
FWHM = 6.586e-002 MeV

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Datasource: O:\alpha_sp\2025\Calibrations\021825\01\01_REPORT.CNF
Energy = 2.954e+00 MeV +5.725e-03*Ch
FWHM = 6.586e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: DET02

Report Generated On : 2/19/2025 4:11:23 PM

Sample Title : DET 02 SC 021925
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 0.100 MeV

Sample Size : 1.000E+000 Unit

Sample Taken On :
Acquisition Started : 2/17/2025 9:02:55 PM

Live Time : 600.8 seconds
Real Time : 601.7 seconds

Dead Time : 0.14 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET02
Sample Title: DET 02 SC 021925
Peak Analysis Performed on: 2/19/2025 4:11:23 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

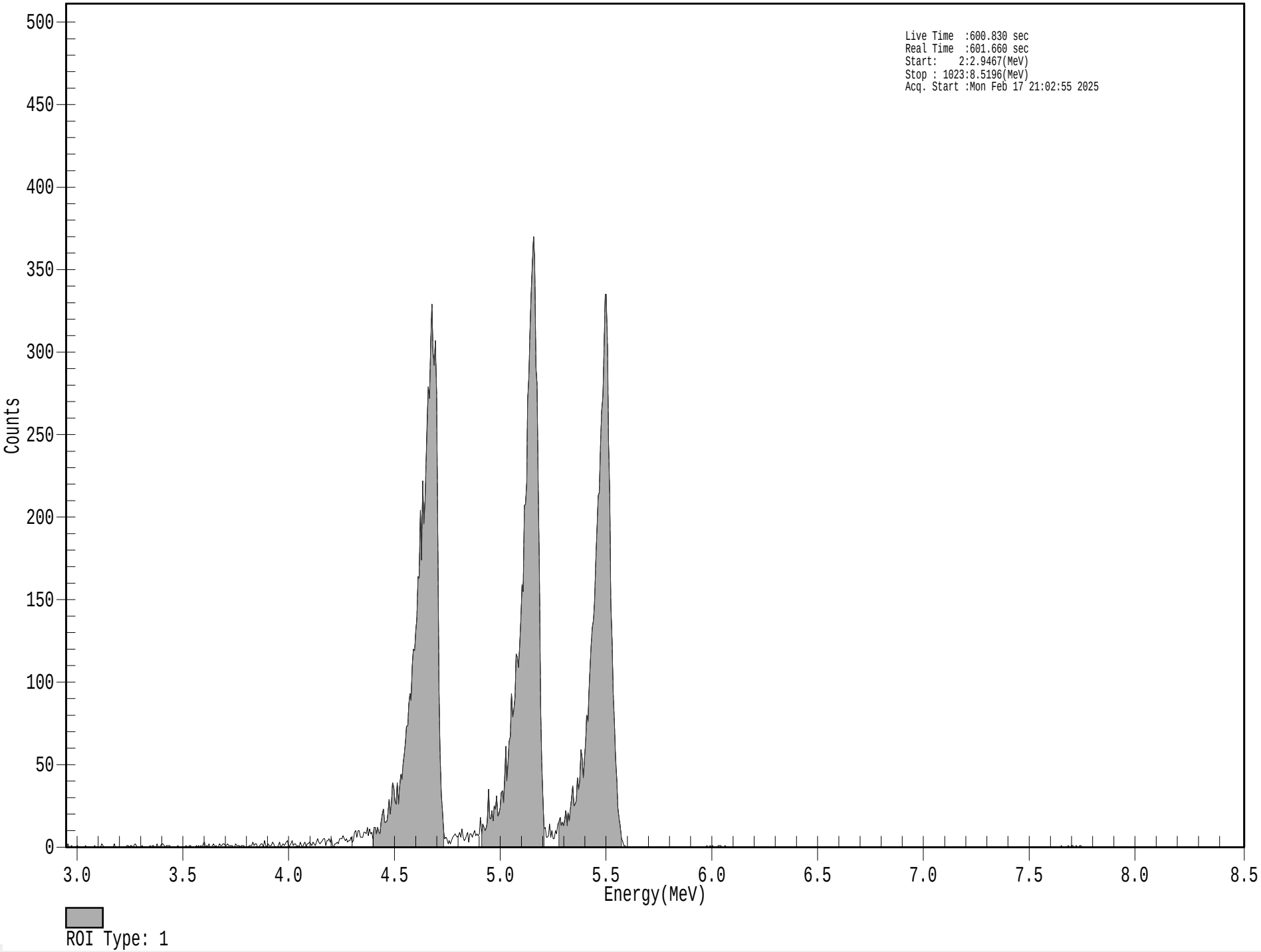
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	268-	329	310.83	4632.40	88.92	6.39E+003	79.91	0.00E+000
2	362-	416	400.02	5119.19	71.37	6.05E+003	77.79	0.00E+000
3	429-	483	463.60	5466.21	70.90	5.53E+003	74.34	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

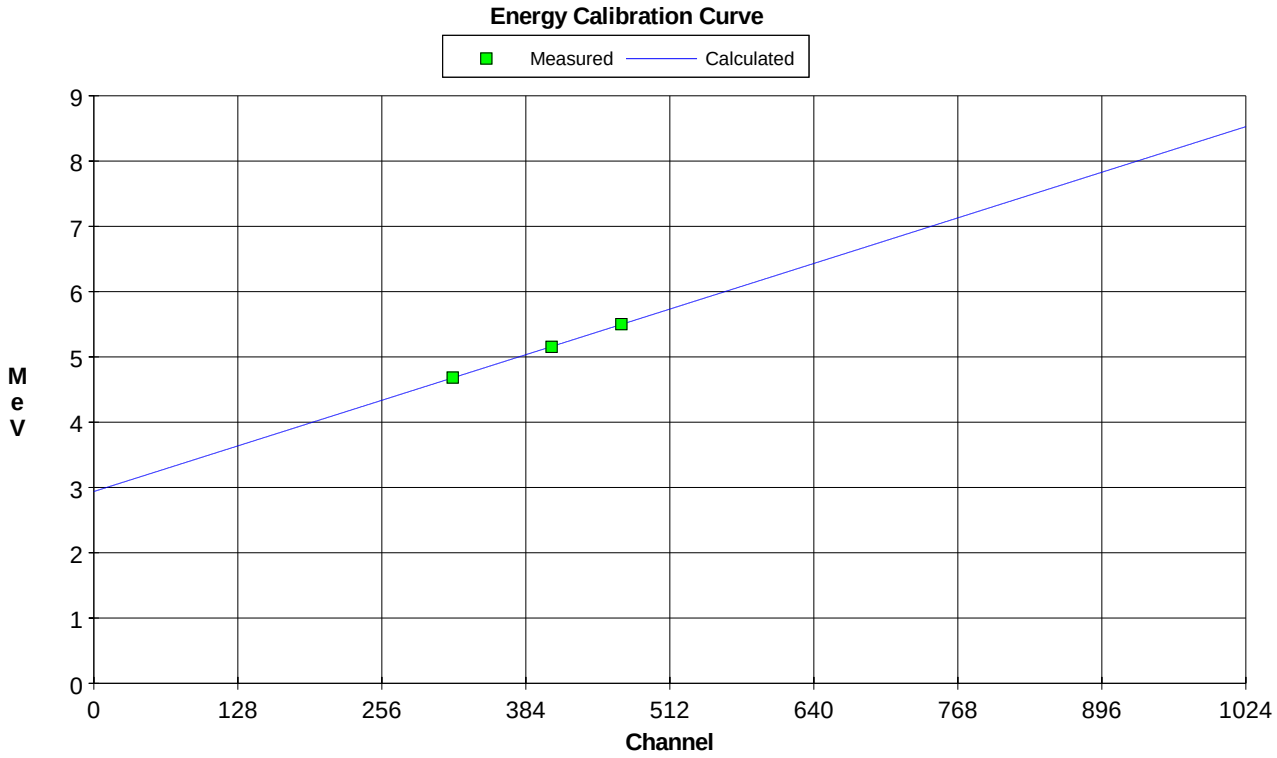
Errors quoted at 1.000 sigma

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Detector DET02

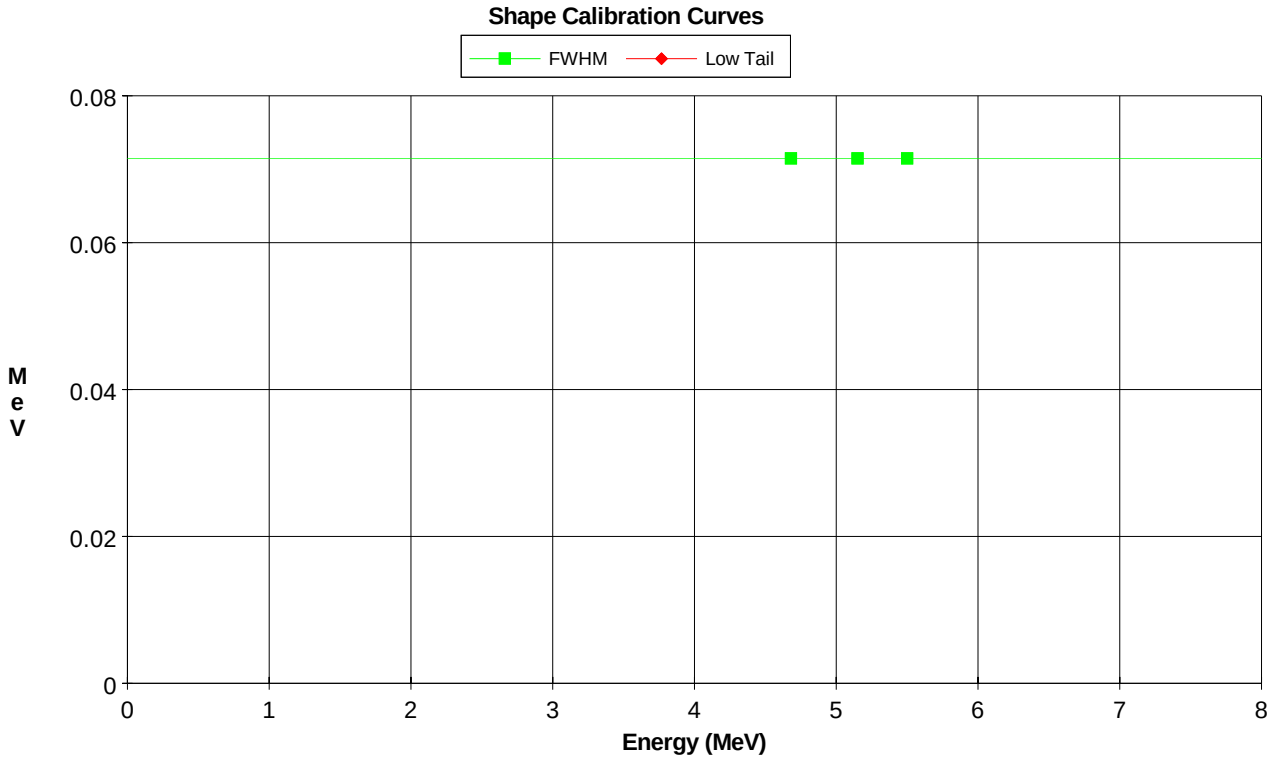


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Datasource: DET02
Energy = 2.936e+000 MeV + 5.458e-003*Ch
FWHM = 7.143e-002 MeV

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Datasource: O:\alpha_sp\2025_Source_Checks\02\02021925.CNF
Energy = 2.936e+00 MeV +5.458e-03*Ch
FWHM = 7.143e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: DET03

Report Generated On : 2/19/2025 5:07:29 PM

Sample Title : DET 03 SC 021925
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 0.100 MeV

Sample Size : 1.000E+000 Unit

Sample Taken On :
Acquisition Started : 2/17/2025 9:47:04 PM

Live Time : 600.1 seconds
Real Time : 601.0 seconds

Dead Time : 0.14 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET03
Sample Title: DET 03 SC 021925
Peak Analysis Performed on: 2/19/2025 5:07:29 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

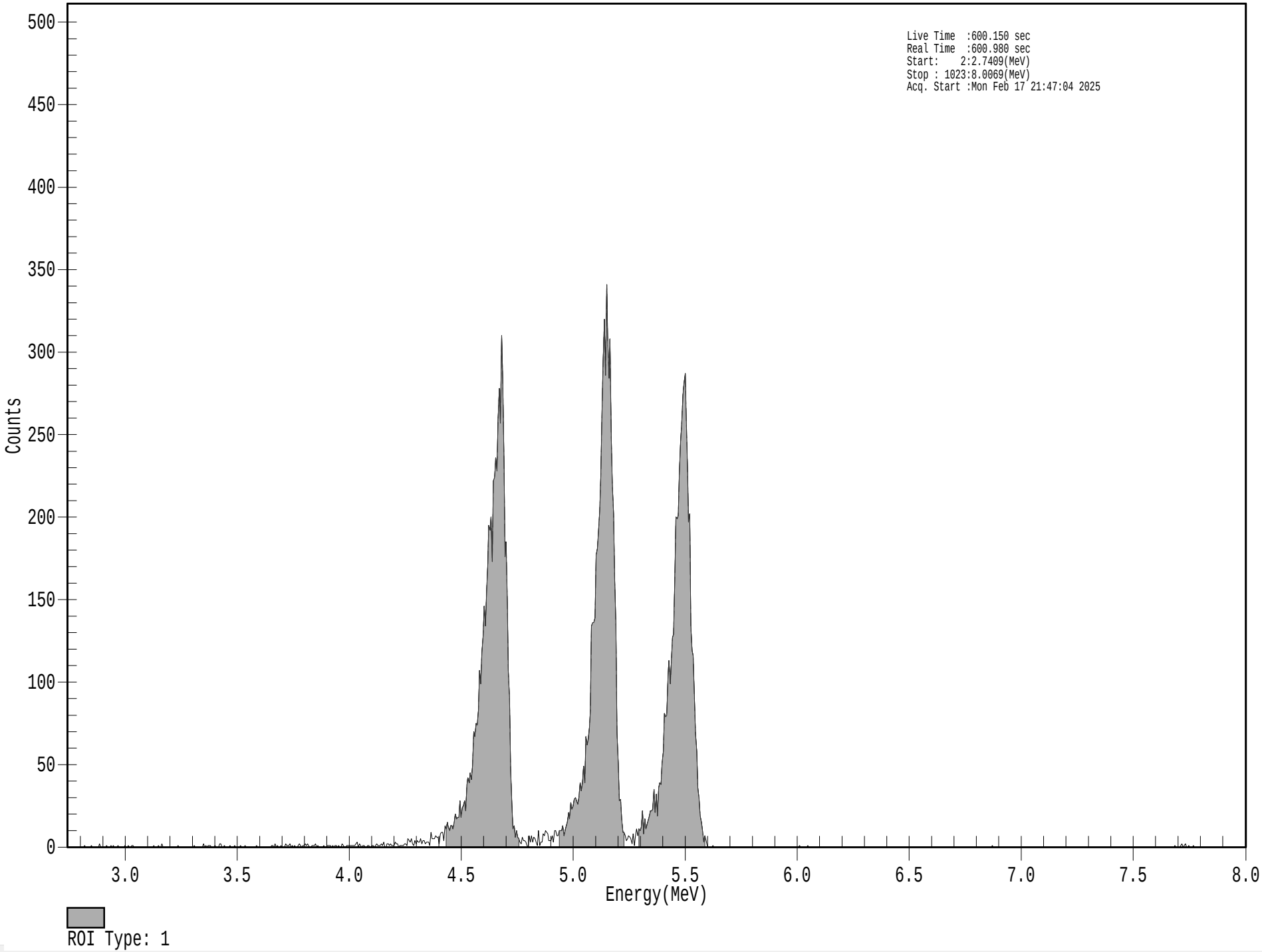
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	330-	393	369.55	4636.59	91.36	6.12E+003	78.22	0.00E+000
2	428-	484	464.59	5126.79	82.41	6.01E+003	77.50	0.00E+000
3	497-	554	531.73	5473.06	74.51	5.38E+003	73.36	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

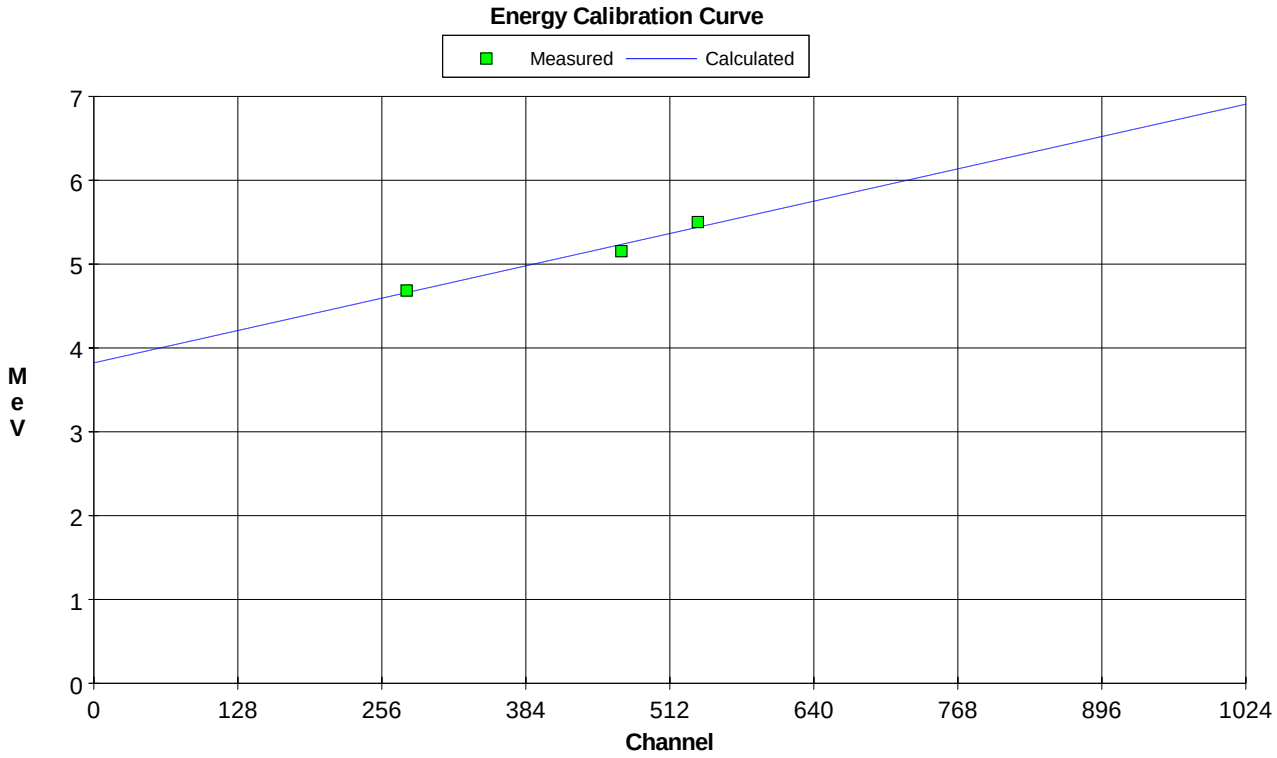
Errors quoted at 1.000 sigma

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Detector DET03

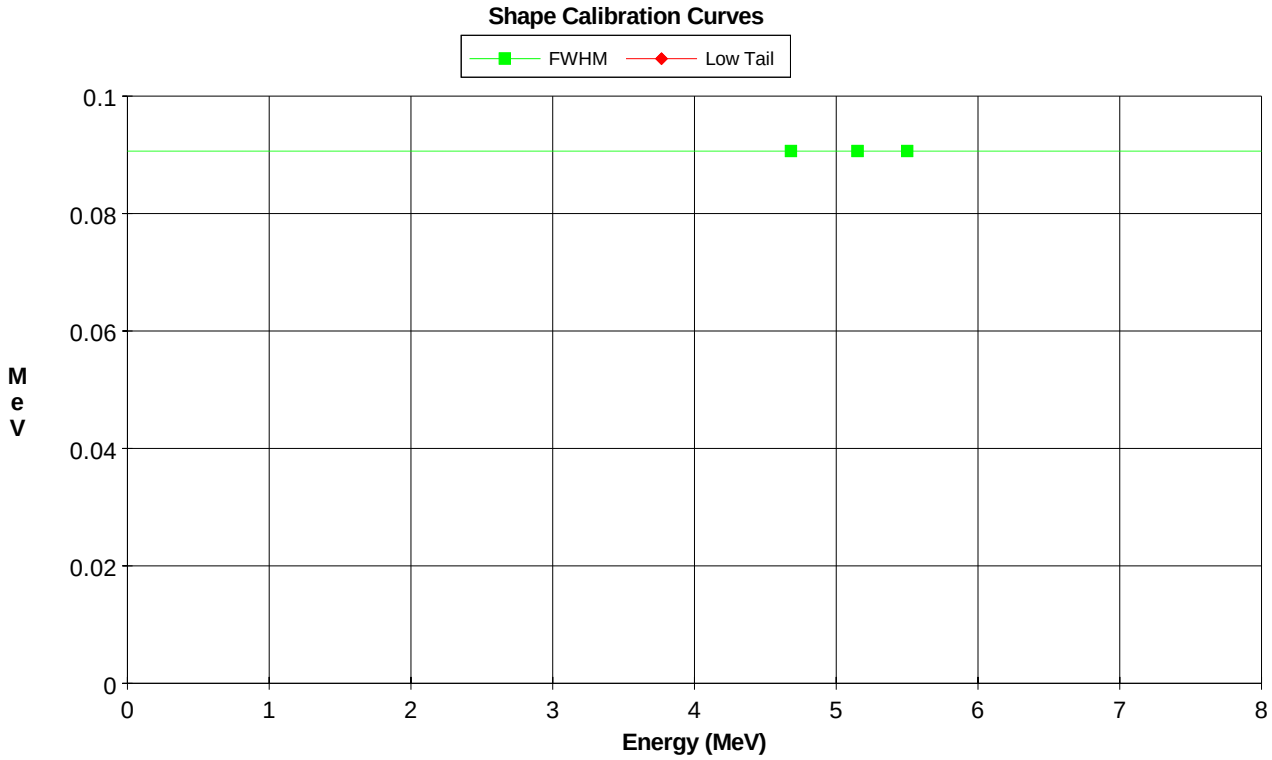


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Datasource: DET03
Energy = 3.820e+000 MeV + 3.013e-003*Ch
FWHM = 5.293e-002 MeV

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Datasource: O:\alpha_sp\2025_Source_Checks\03\03021925.CNF
Energy = 2.731e+00 MeV +5.158e-03*Ch
FWHM = 9.061e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: DET04

Report Generated On : 2/19/2025 5:07:05 PM

Sample Title : DET 04 SC 021925
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 0.100 MeV

Sample Size : 1.000E+000 Unit

Sample Taken On :
Acquisition Started : 2/17/2025 8:48:21 PM

Live Time : 600.3 seconds
Real Time : 601.1 seconds

Dead Time : 0.14 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 6/13/2024
Efficiency ID :

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET04
Sample Title: DET 04 SC 021925
Peak Analysis Performed on: 2/19/2025 5:07:05 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

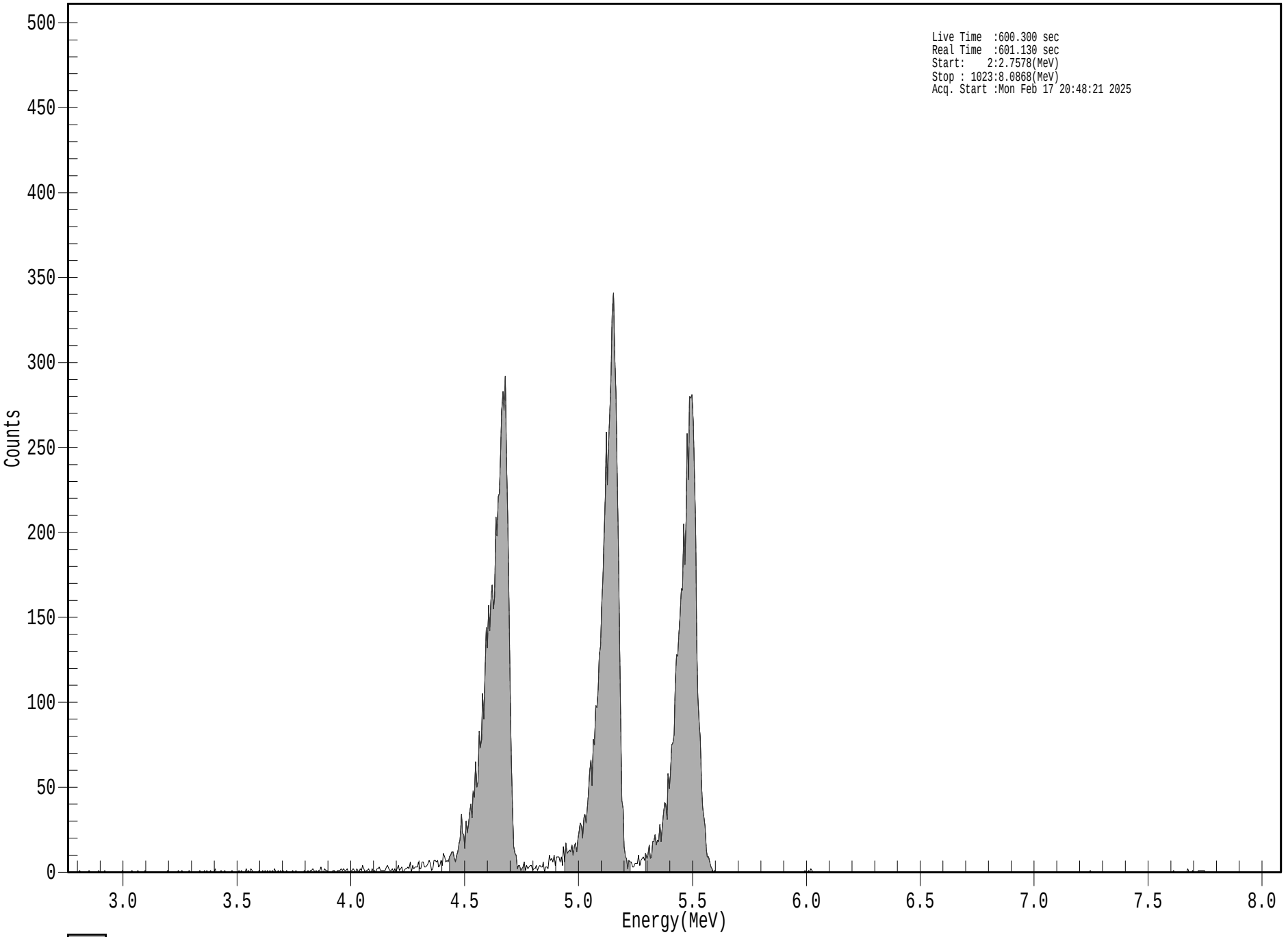
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	323-	386	360.70	4629.99	84.18	5.53E+003	74.34	0.00E+000
2	420-	475	455.00	5122.20	71.28	5.43E+003	73.69	0.00E+000
3	488-	544	521.19	5467.67	77.91	5.00E+003	70.72	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

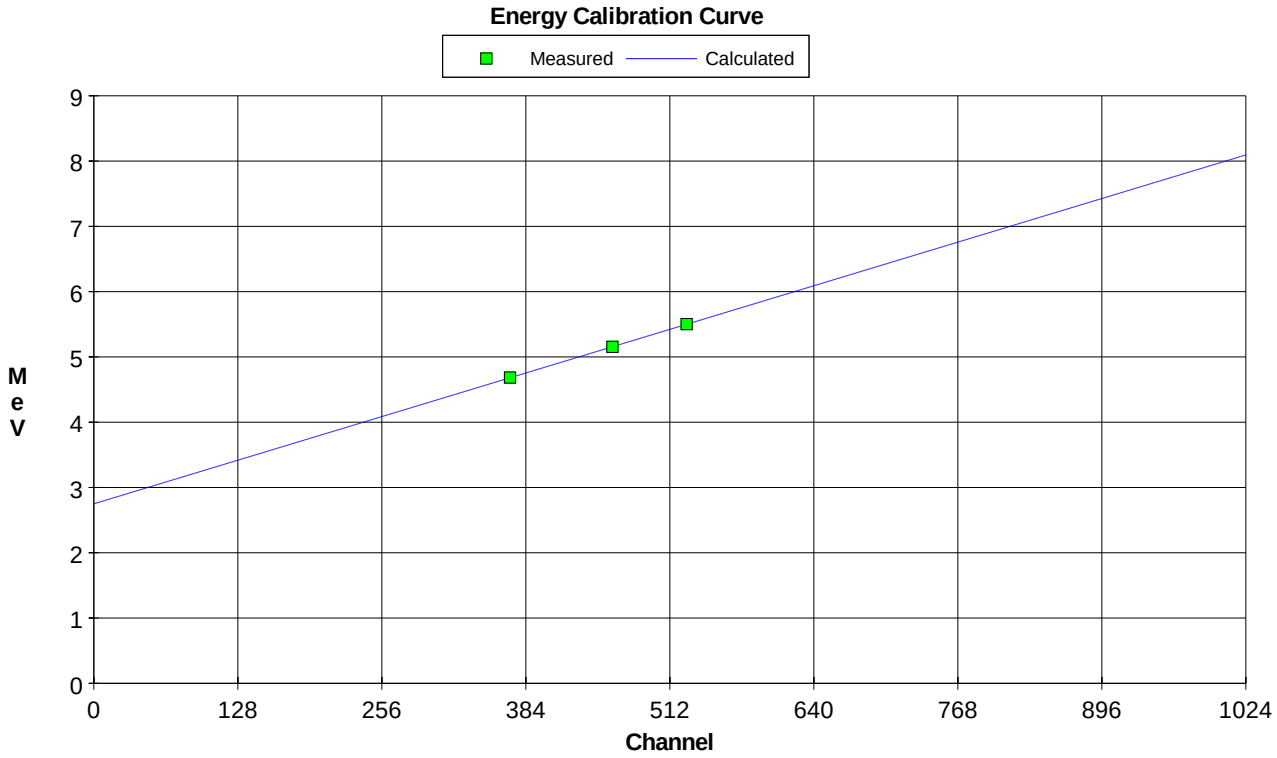
Errors quoted at 1.000 sigma

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Detector DET04

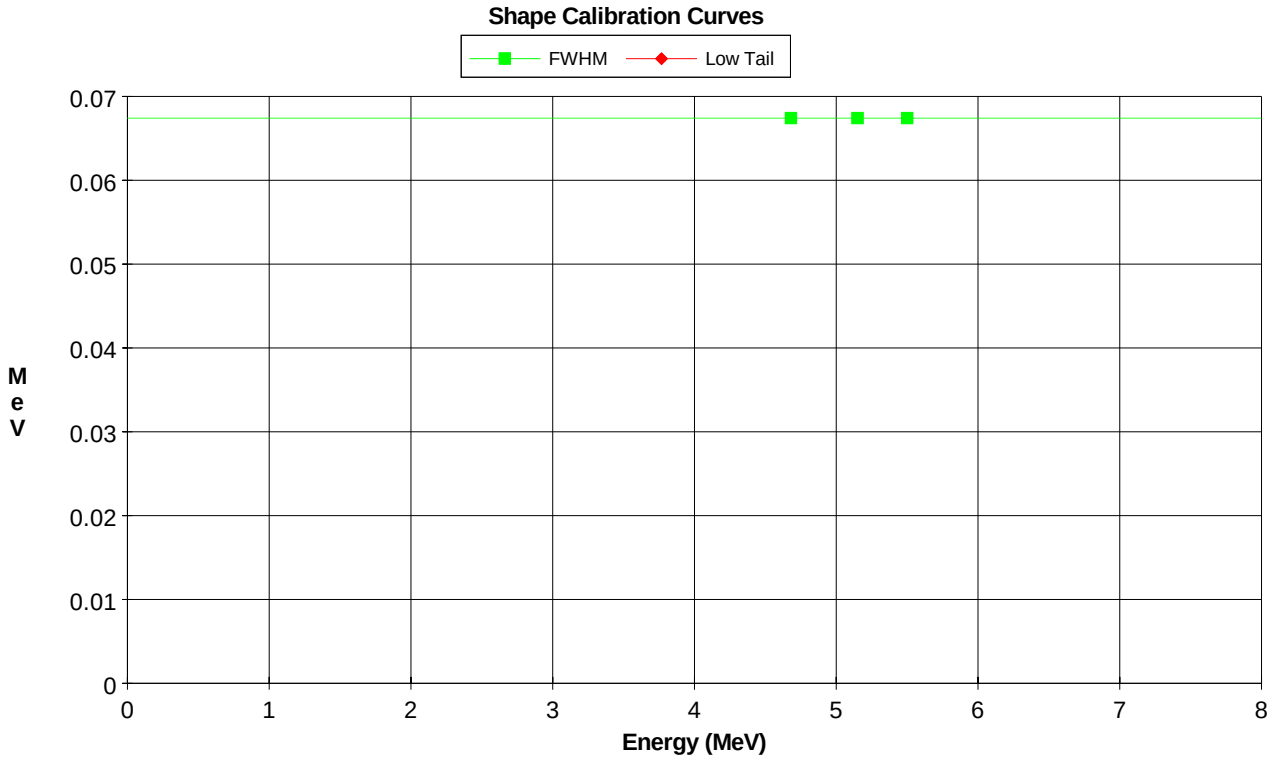


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Datasource: DET04
Energy = 2.747e+000 MeV + 5.219e-003*Ch
FWHM = 6.739e-002 MeV

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Datasource: O:\alpha_sp\2025_Source_Checks\04\04021925.CNF
Energy = 2.747e+00 MeV +5.219e-03*Ch
FWHM = 6.739e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET09
Sample Title: DET 09 SC 110124
Peak Analysis Performed on: 11/1/2024 9:16:48 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	309-	367	339.75	4605.30	90.29	6.21E+003	78.77	0.00E+000
2	398-	449	432.17	5130.99	65.48	6.10E+003	78.12	0.00E+000
3	461-	512	497.38	5501.93	69.79	5.36E+003	73.21	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 09 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.996	4687.60*	99.70	1.045E+003	2.563E+001
PU-239	0.999	5160.00*	100.00	1.025E+003	5.701E+001
AM-241	1.000	5485.70*	99.00	9.093E+002	2.376E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:16:48 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

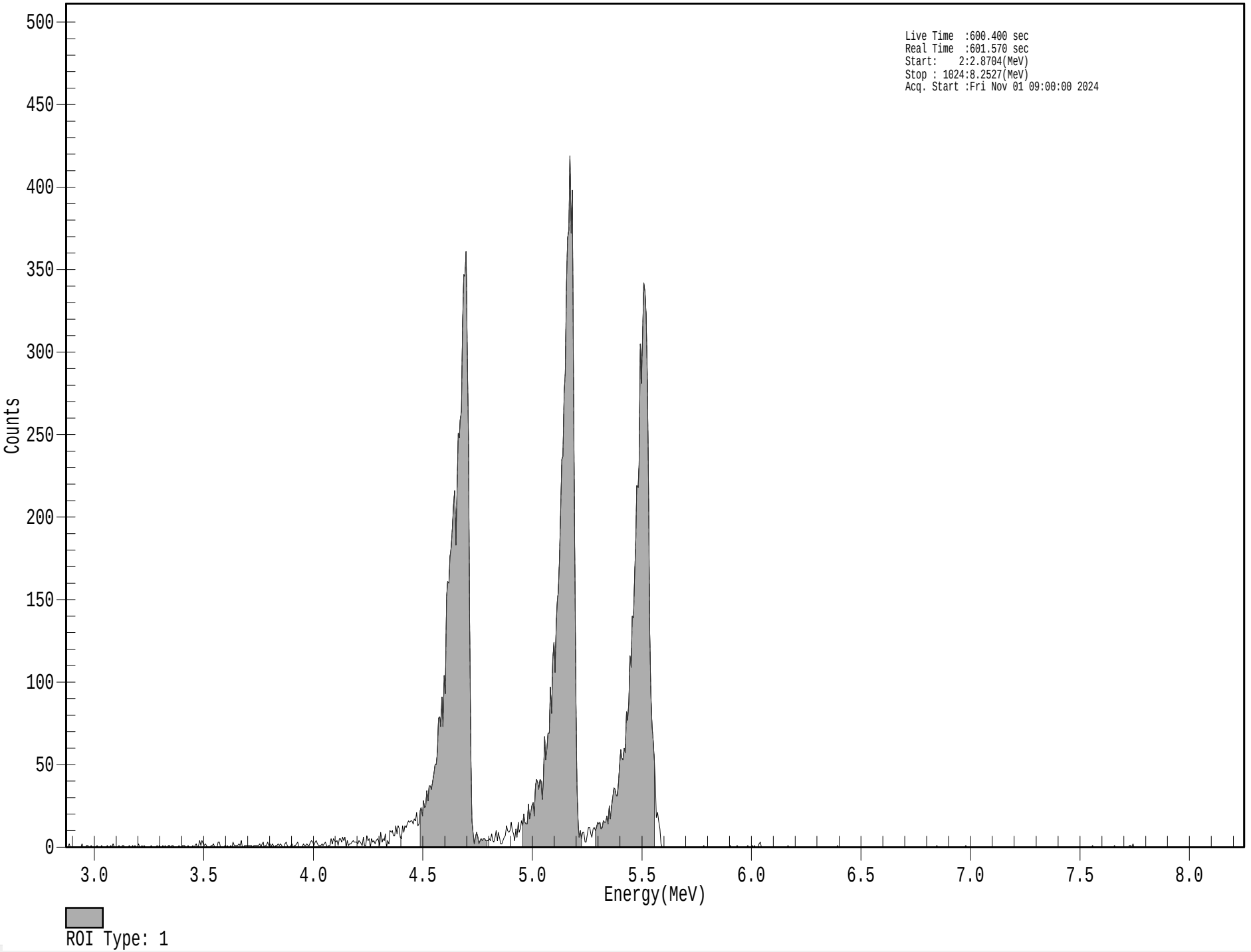
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

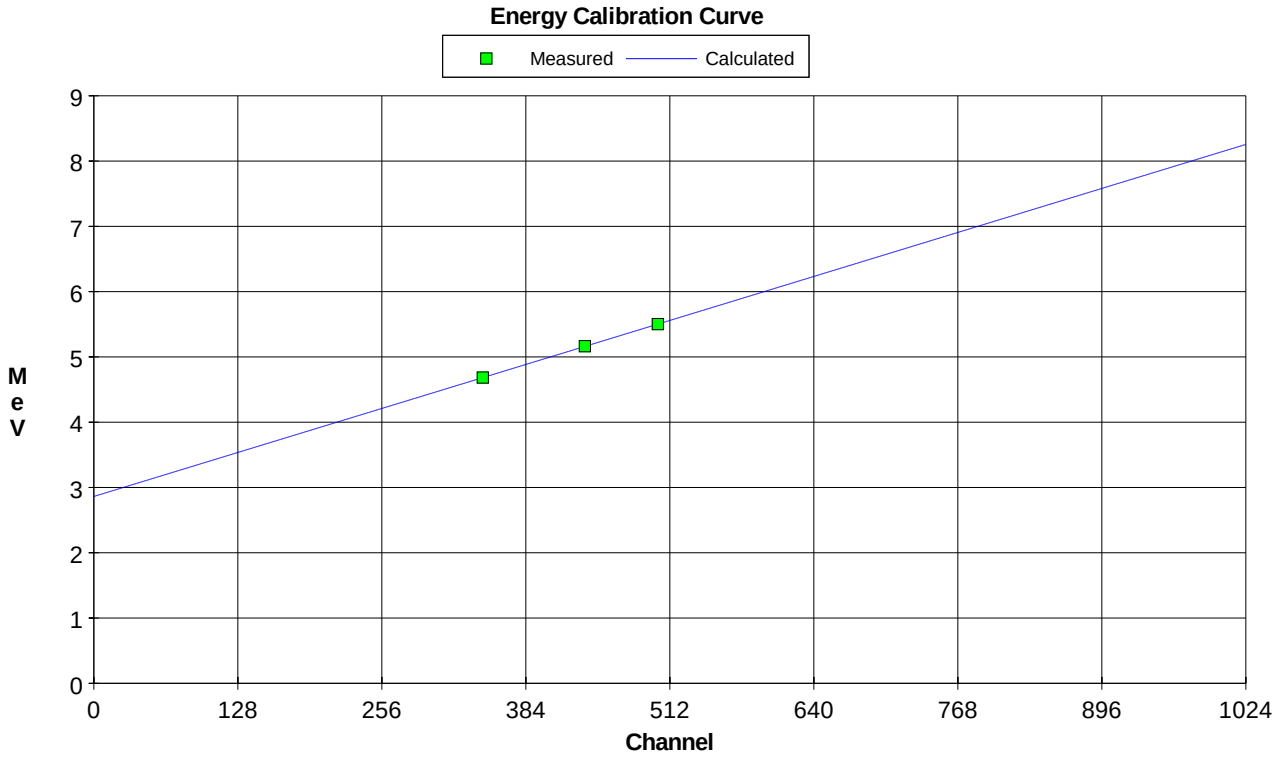
Errors quoted at 1.000 sigma

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Detector DET09

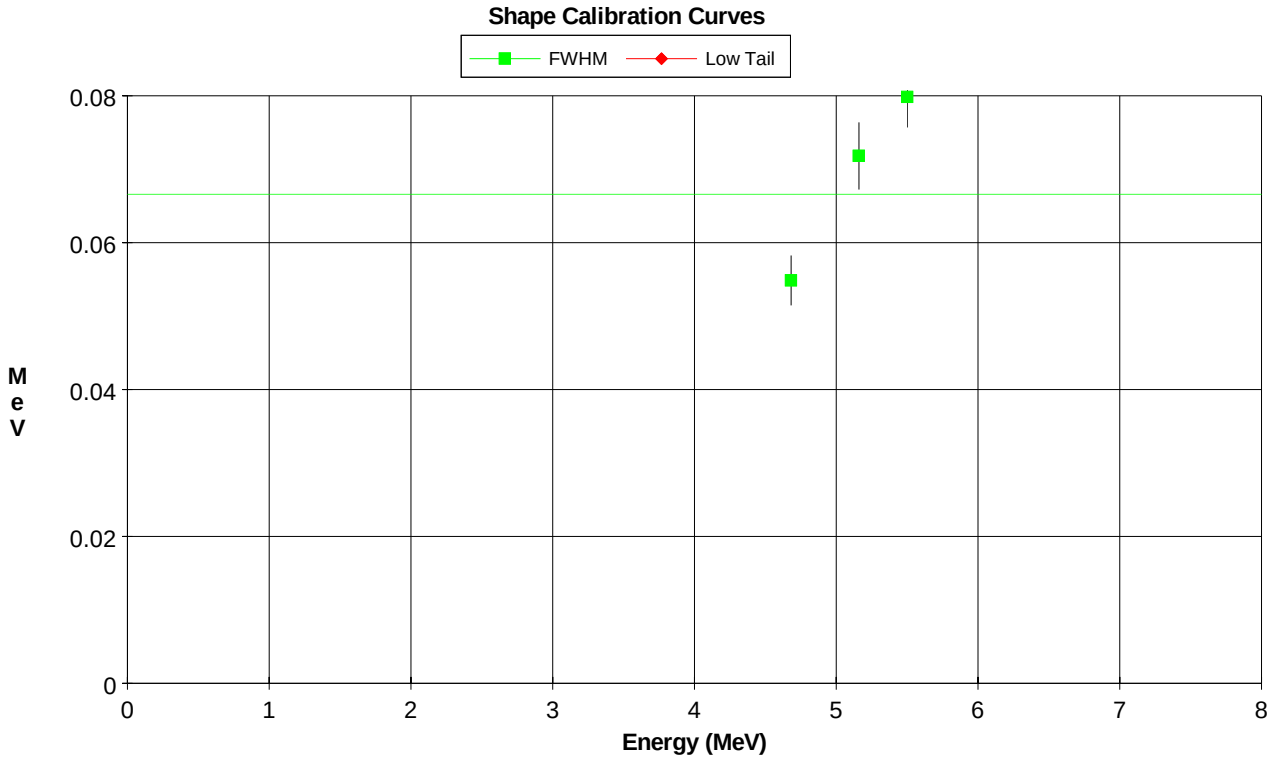


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Datasource: DET09
Energy = 2.860e+000 MeV + 5.266e-003*Ch
FWHM = 6.655e-002 MeV

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Datasource: DET09
Energy = 2.860e+000 MeV + 5.266e-003*Ch
FWHM = 6.655e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET10
Sample Title: DET 10 SC 110124
Peak Analysis Performed on: 11/1/2024 9:17:14 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	336-	410	380.09	4602.24	51.73	6.89E+003	82.98	0.00E+000
2	446-	503	477.82	5091.85	62.45	7.14E+003	84.50	0.00E+000
3	516-	582	546.37	5435.29	62.55	6.22E+003	78.87	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 10 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.995	4687.60*	99.70	1.046E+003	1.695E+001
PU-239	0.997	5160.00*	100.00	1.081E+003	5.668E+001
AM-241	0.998	5485.70*	99.00	9.514E+002	1.740E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:17:14 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

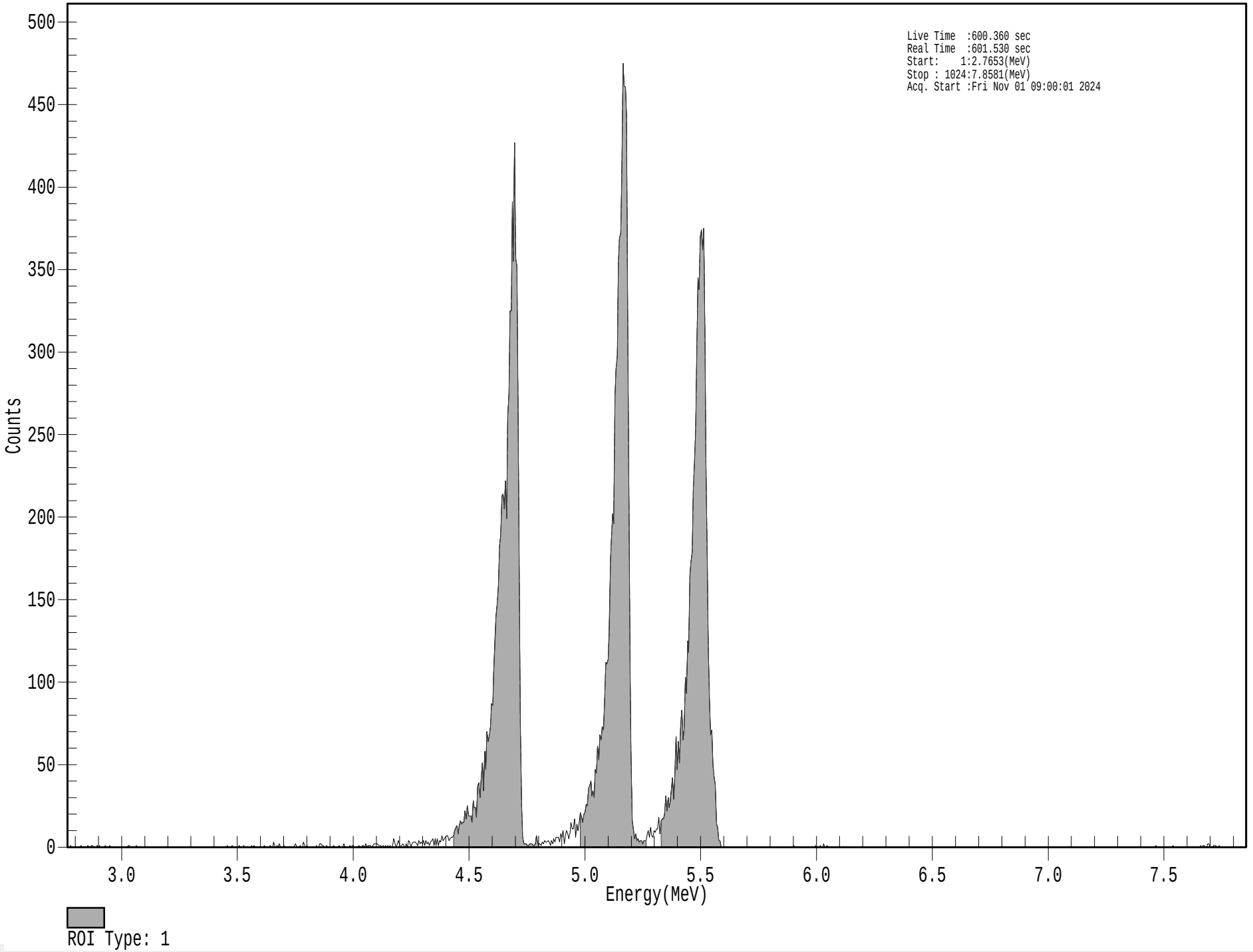
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

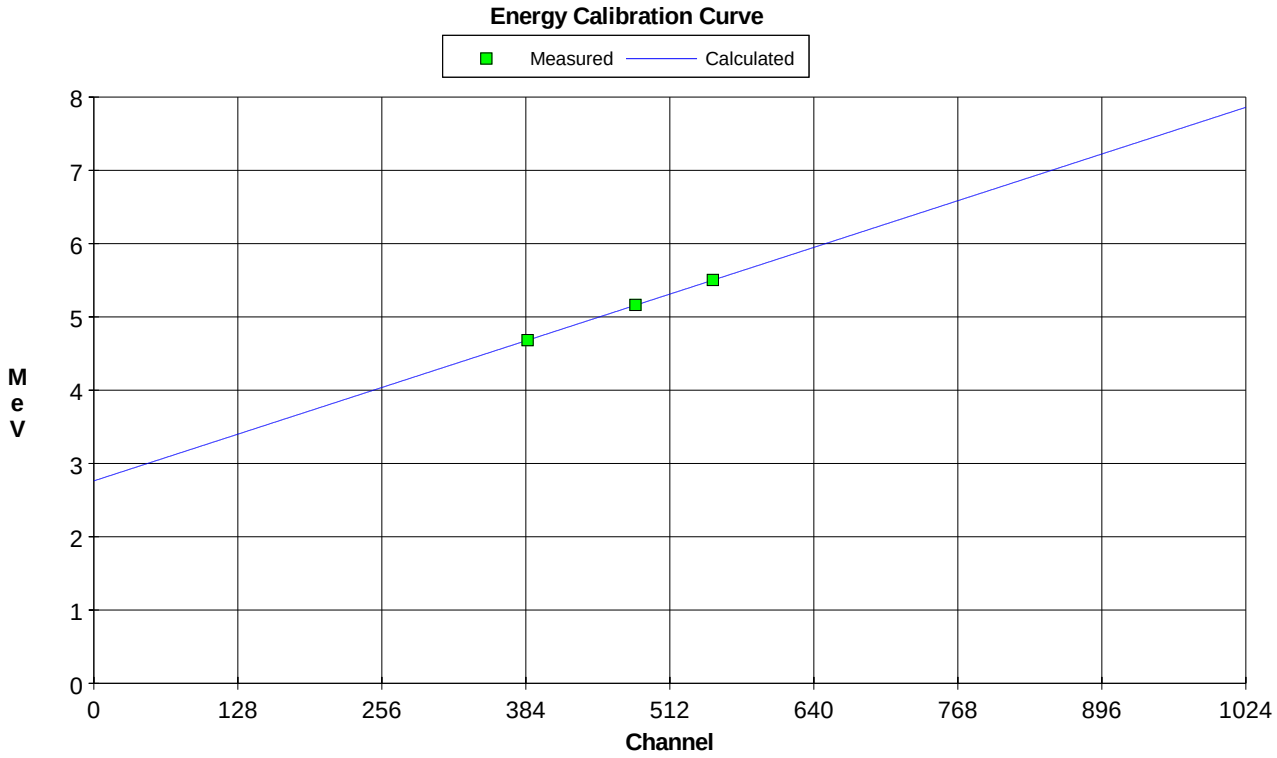
Errors quoted at 1.000 sigma

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Detector DET10

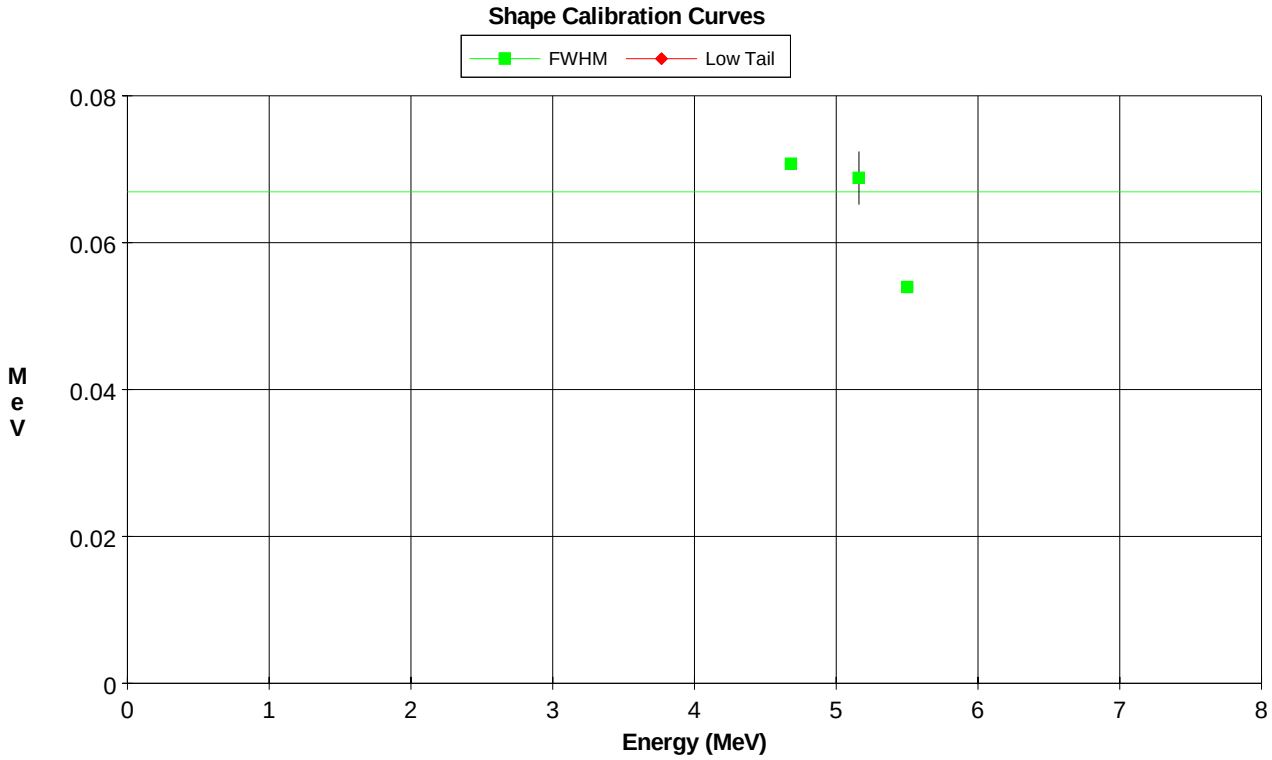


PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET10
Energy = 2.760e+000 MeV + 4.978e-003*Ch
FWHM = 6.692e-002 MeV

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Datasource: DET10
Energy = 2.760e+000 MeV + 4.978e-003*Ch
FWHM = 6.692e-002 MeV

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET11
Sample Title: DET 11 SC 110124
Peak Analysis Performed on: 11/1/2024 9:17:35 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	398	370.12	4607.01	84.34	6.40E+003	79.97	0.00E+000
2	430-	481	463.91	5128.14	62.05	6.41E+003	80.06	0.00E+000
3	494-	546	530.64	5498.93	67.37	5.68E+003	75.39	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 11 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.996	4687.60*	99.70	1.214E+003	2.985E+001
PU-239	0.999	5160.00*	100.00	1.213E+003	6.749E+001
AM-241	1.000	5485.70*	99.00	1.087E+003	2.834E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:17:35 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

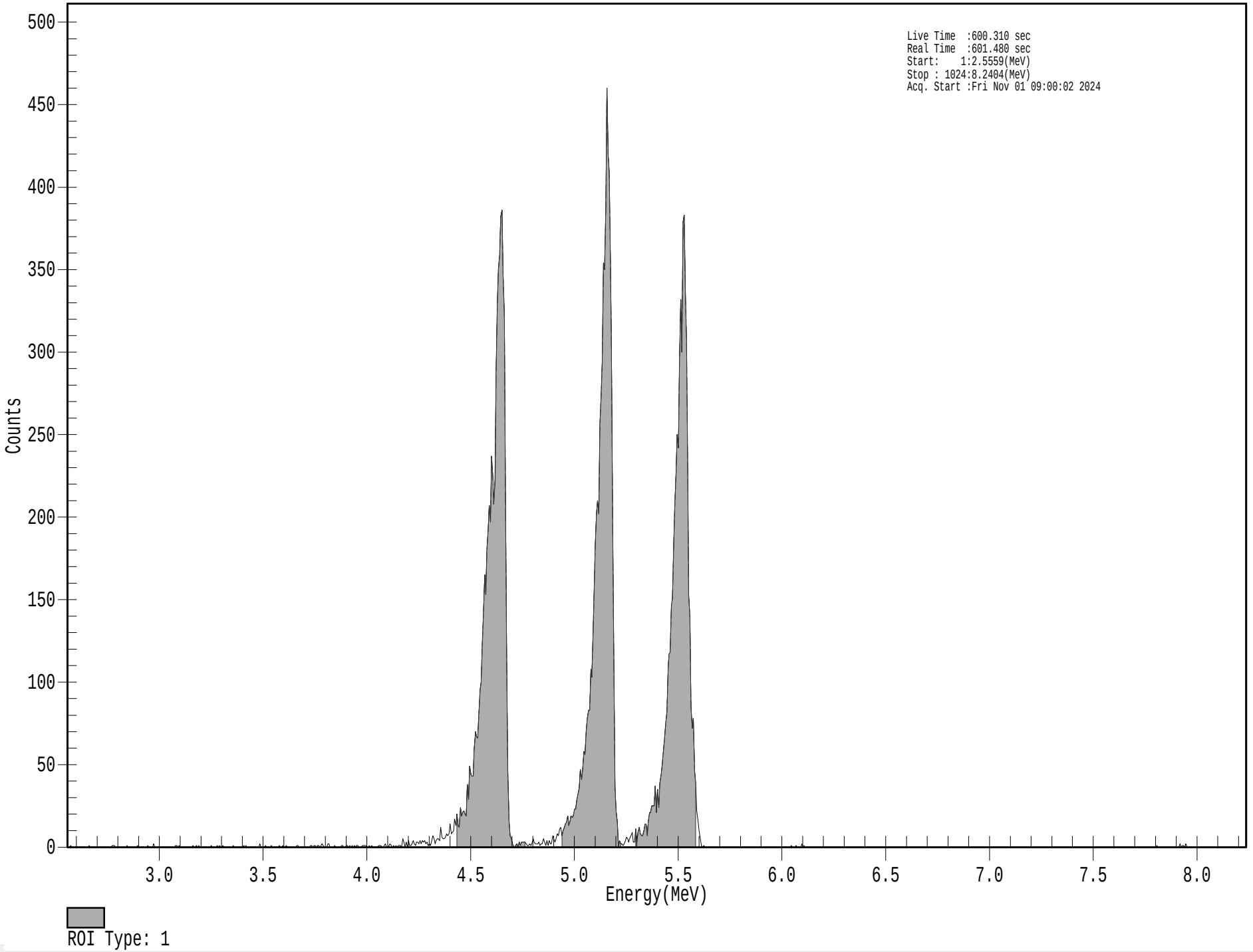
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

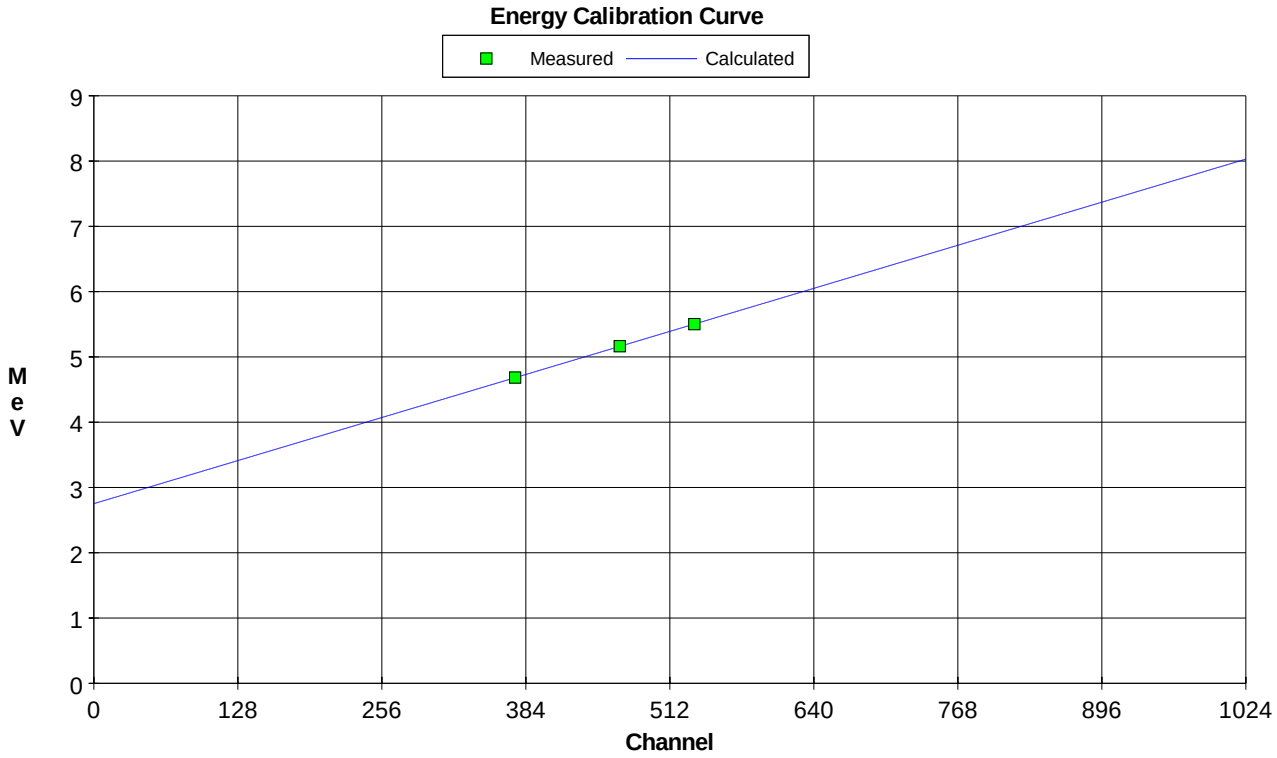
Errors quoted at 1.000 sigma

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

Detector DET11

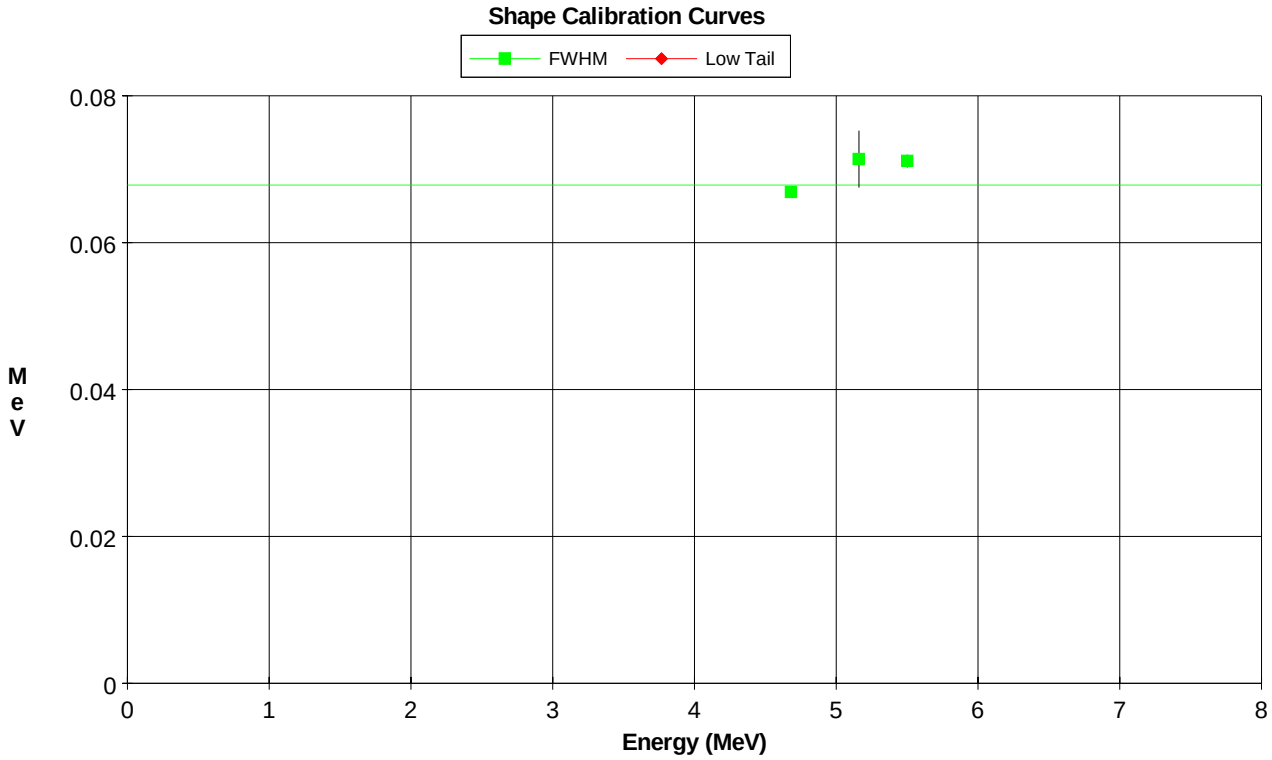


PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET11
Energy = 2.750e+000 MeV + 5.154e-003*Ch
FWHM = 6.781e-002 MeV

PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET11
Energy = 2.750e+000 MeV + 5.154e-003*Ch
FWHM = 6.781e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET13
Sample Title: DET 13 SC 110124
Peak Analysis Performed on: 11/1/2024 9:17:54 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	406-	477	450.70	4638.97	43.64	6.09E+003	78.06	0.00E+000
2	516-	578	555.77	5123.25	55.80	5.98E+003	77.33	0.00E+000
3	593-	656	630.33	5466.92	52.16	5.39E+003	73.40	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 13 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.998	4687.60*	99.70	1.066E+003	2.625E+001
PU-239	0.999	5160.00*	100.00	1.043E+003	5.810E+001
AM-241	1.000	5485.70*	99.00	9.495E+002	2.483E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:17:54 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

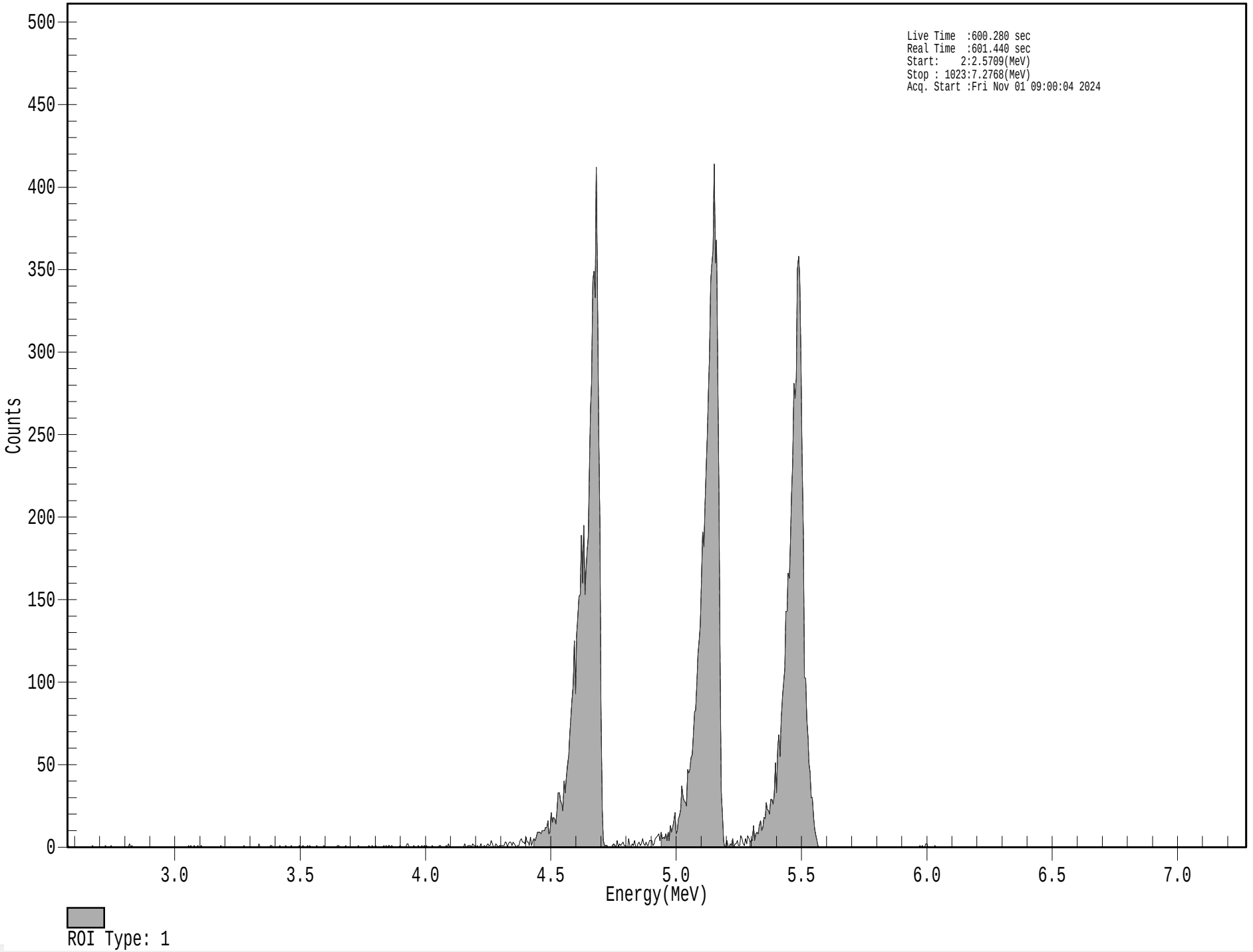
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

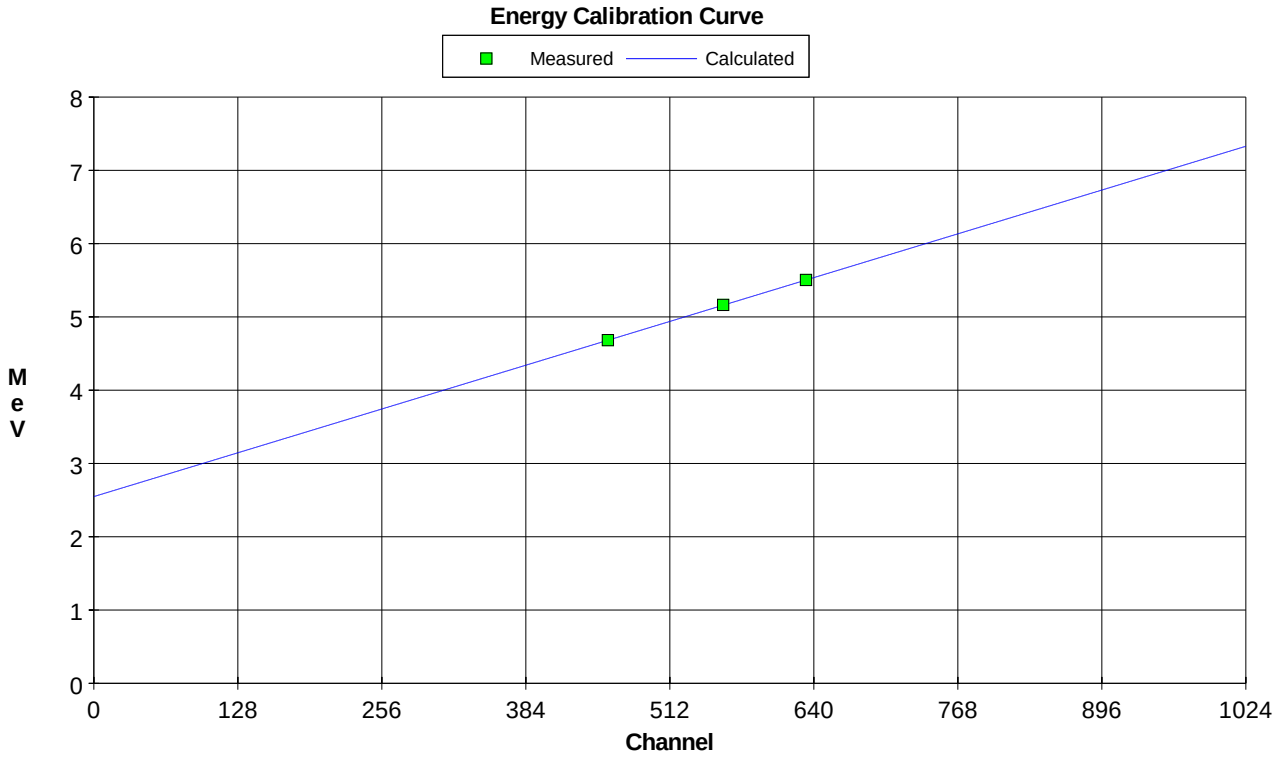
Errors quoted at 1.000 sigma

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

Detector DET13

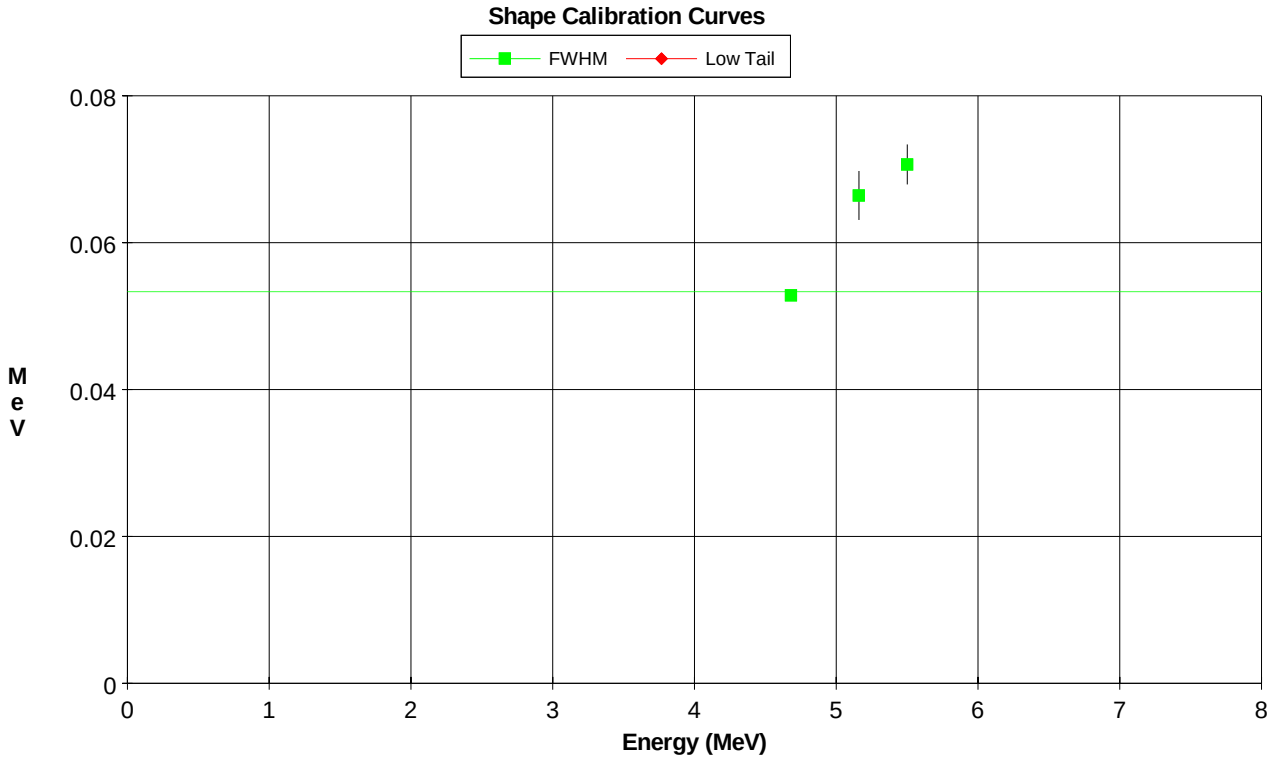


PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET13
Energy = 2.546e+000 MeV + 4.668e-003*Ch
FWHM = 5.333e-002 MeV

PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET13
Energy = 2.546e+000 MeV + 4.668e-003*Ch
FWHM = 5.333e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET14
Sample Title: DET 14 SC 110124
Peak Analysis Performed on: 11/1/2024 9:18:17 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	303-	363	332.70	4594.97	57.25	5.91E+003	76.90	0.00E+000
2	395-	447	424.42	5097.89	70.10	5.71E+003	75.57	0.00E+000
3	460-	513	489.81	5456.47	65.02	5.17E+003	71.89	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 14 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.995	4687.60*	99.70	9.756E+002	2.402E+001
PU-239	0.998	5160.00*	100.00	9.393E+002	5.232E+001
AM-241	0.999	5485.70*	99.00	8.585E+002	2.250E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:18:17 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

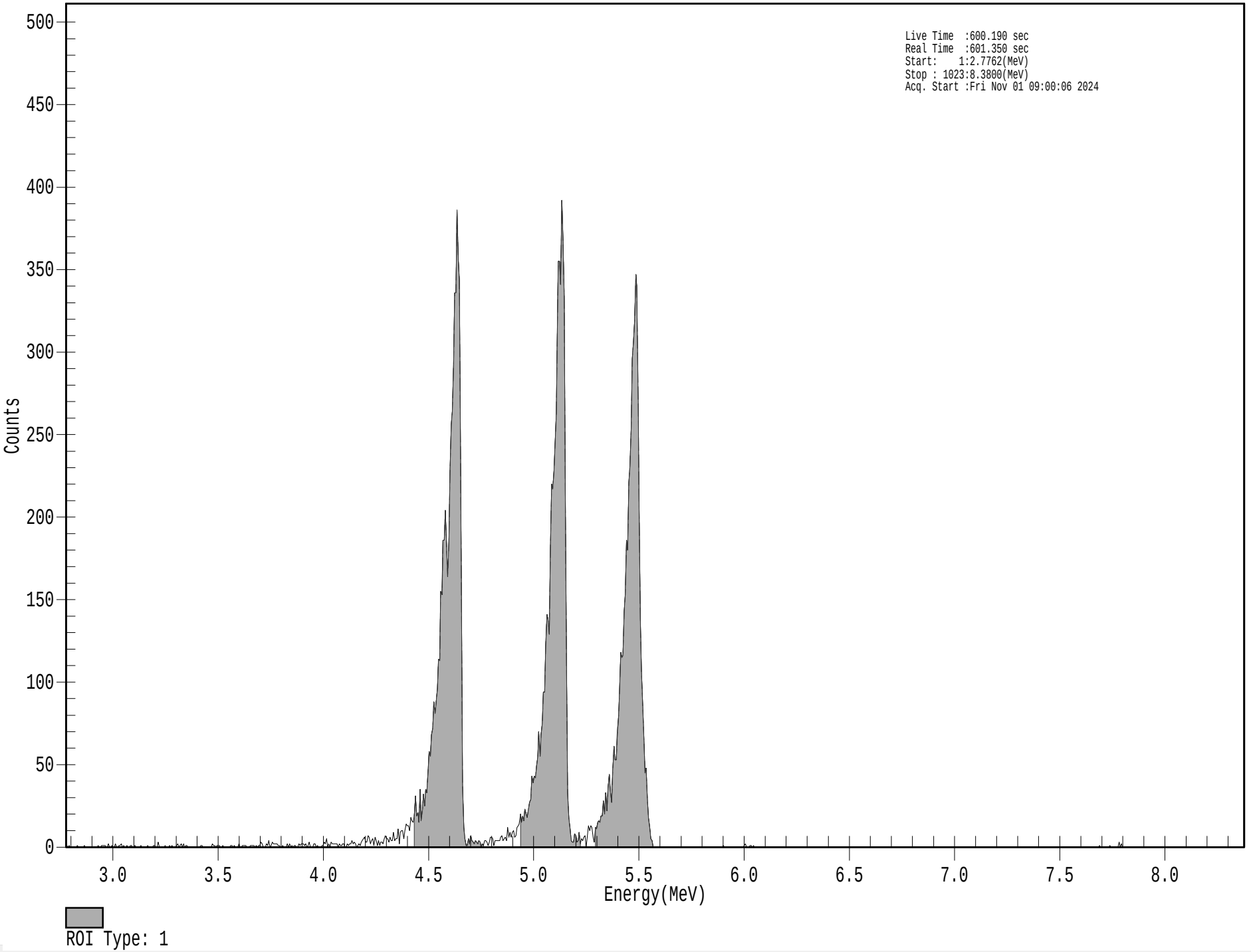
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

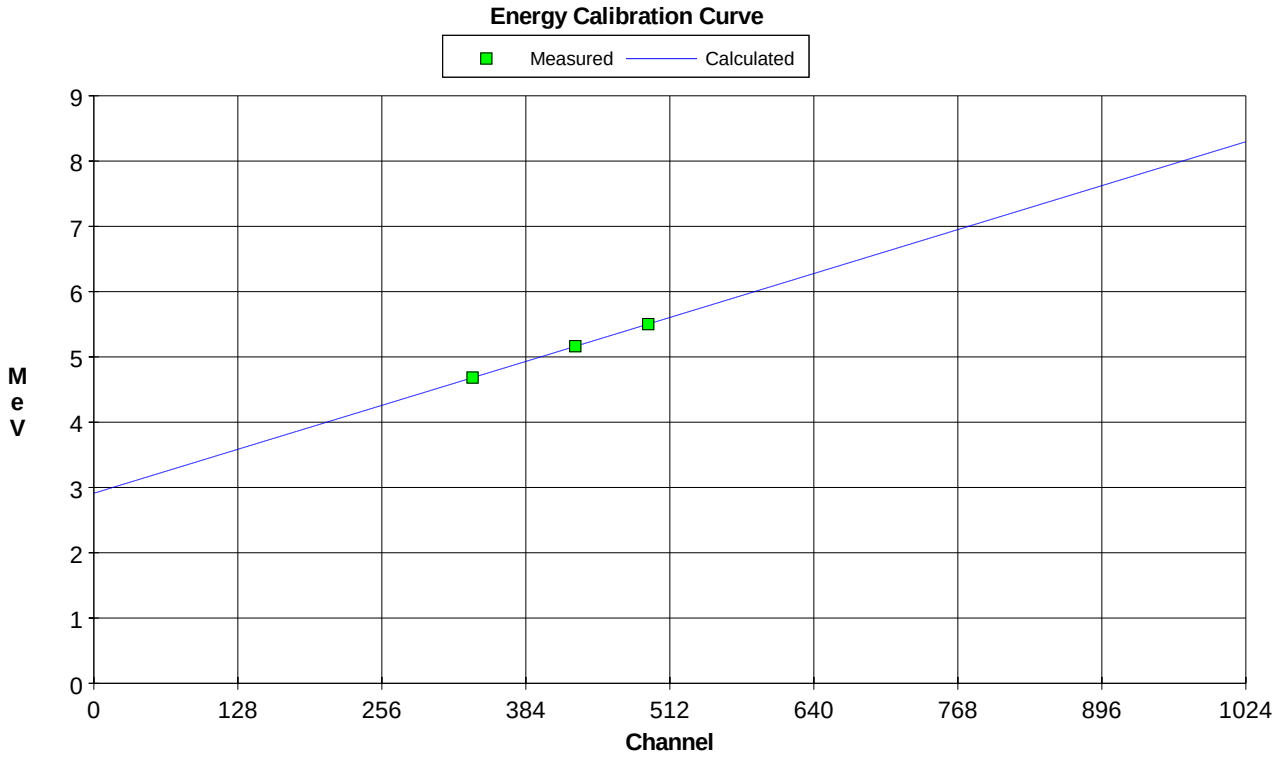
Errors quoted at 1.000 sigma

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Detector DET14

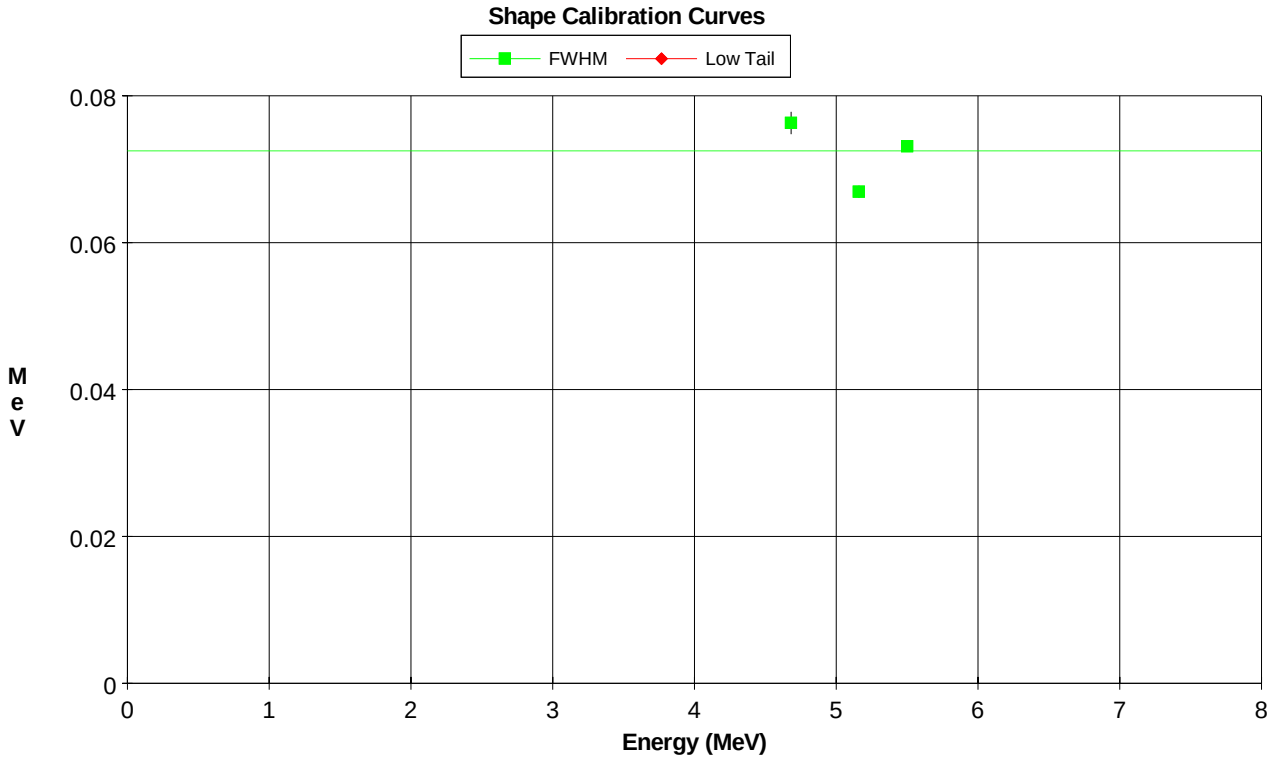


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Datasource: DET14
Energy = 2.909e+000 MeV + 5.259e-003*Ch
FWHM = 7.248e-002 MeV

PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET14
Energy = 2.909e+000 MeV + 5.259e-003*Ch
FWHM = 7.248e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET19
Sample Title: DET 19 SC 110124
Peak Analysis Performed on: 11/1/2024 9:18:37 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	356-	424	403.92	4661.91	56.60	6.37E+003	79.80	0.00E+000
2	461-	521	504.25	5143.70	54.91	6.57E+003	81.08	0.00E+000
3	536-	596	576.10	5488.75	57.67	6.02E+003	77.60	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 19 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.966E+002	1.453E+001
PU-239	1.000	5160.00*	100.00	1.026E+003	5.328E+001
AM-241	1.000	5485.70*	99.00	9.491E+002	1.582E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:18:37 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

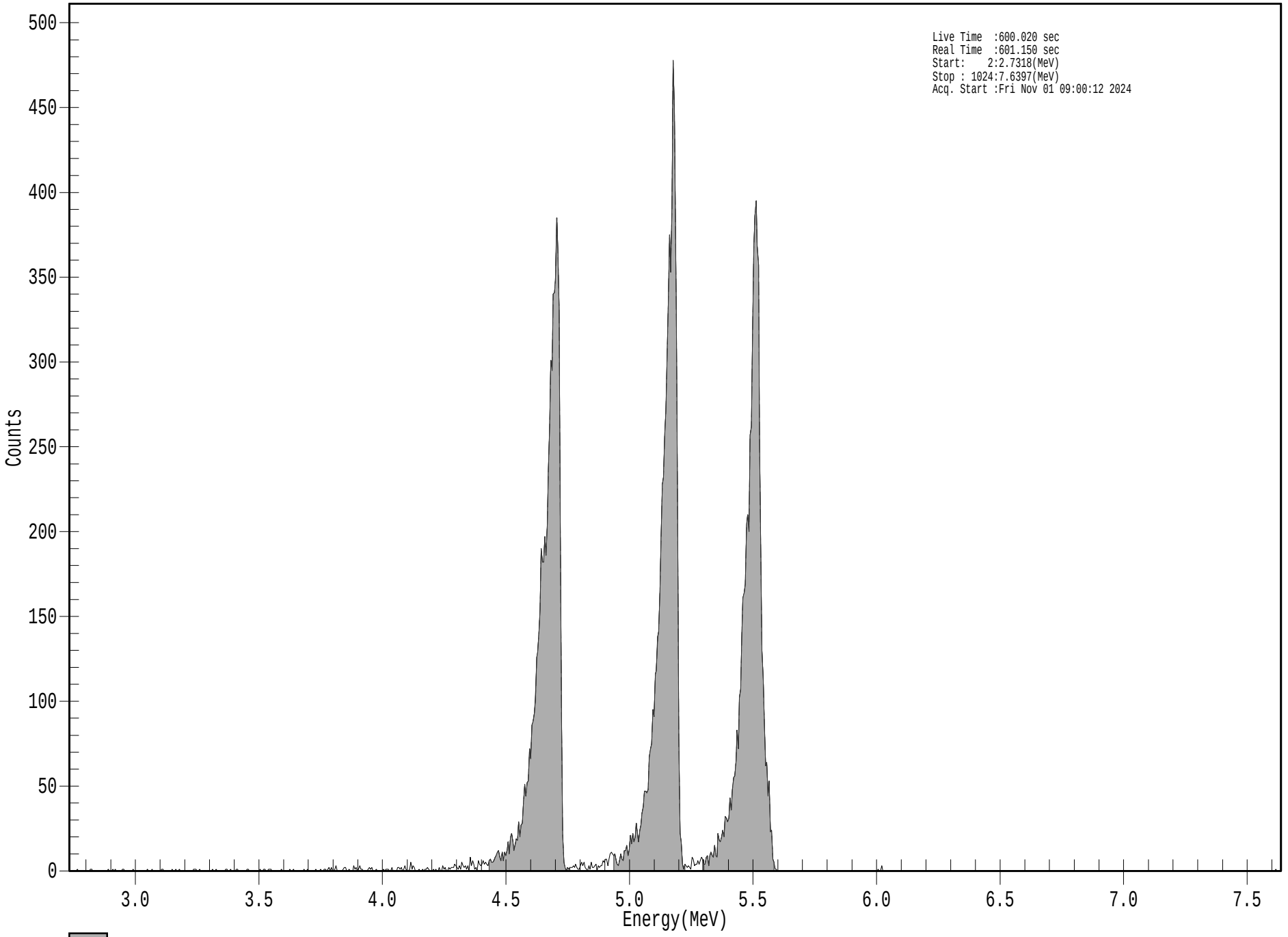
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

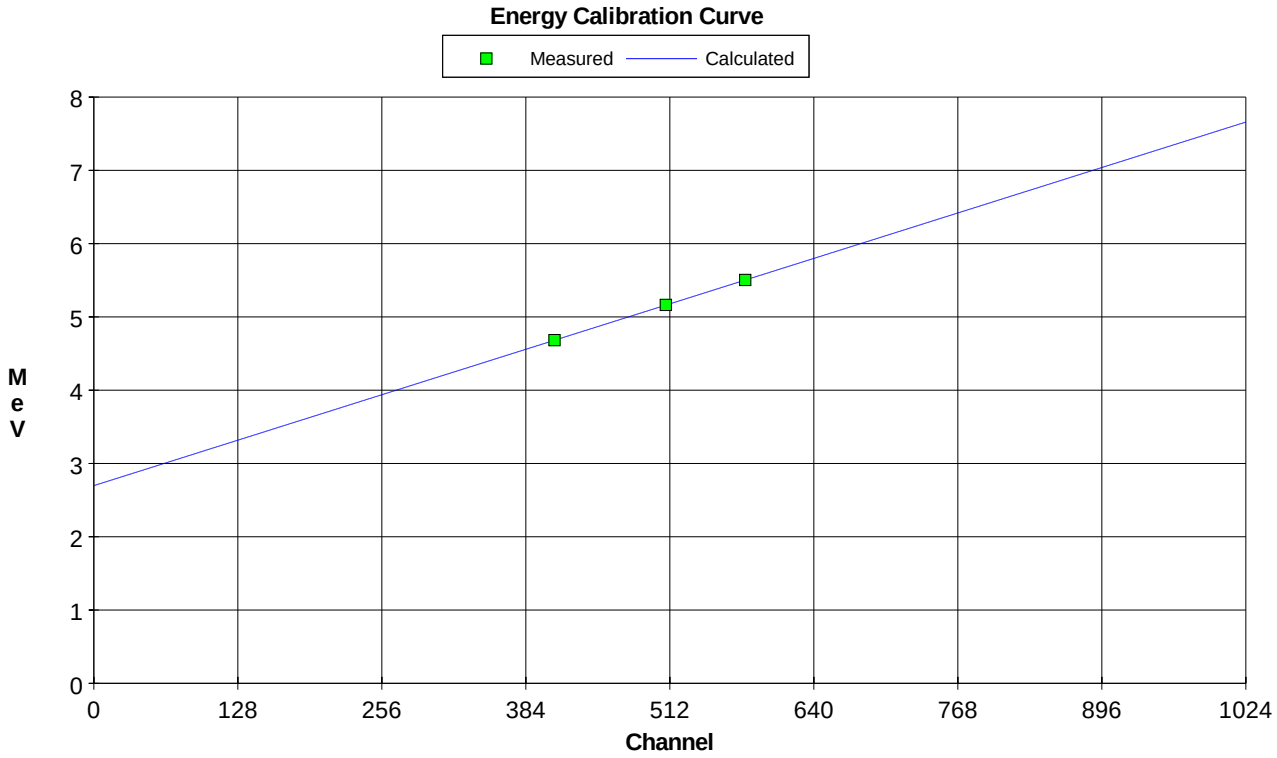
Errors quoted at 1.000 sigma

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Detector DET19

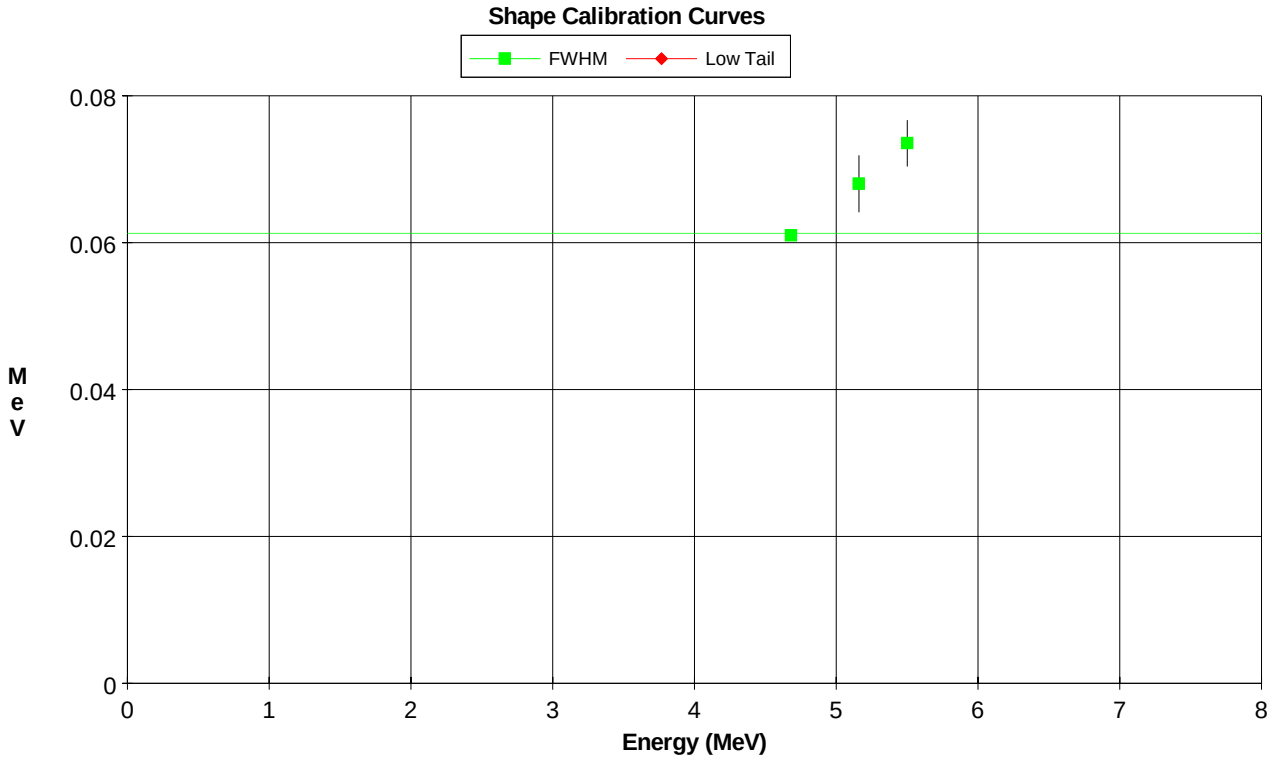


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Datasource: DET19
Energy = 2.696e+000 MeV + 4.845e-003*Ch
FWHM = 6.125e-002 MeV

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Datasource: DET19
Energy = 2.696e+000 MeV + 4.845e-003*Ch
FWHM = 6.125e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET20
Sample Title: DET 20 SC 110124
Peak Analysis Performed on: 11/1/2024 9:19:00 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	340-	408	388.20	4664.38	72.31	5.54E+003	74.42	0.00E+000
2	445-	504	485.08	5133.25	60.06	5.59E+003	74.78	0.00E+000
3	518-	579	553.47	5464.22	58.43	4.82E+003	69.42	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 20 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.463E+002	1.358E+001
PU-239	1.000	5160.00*	100.00	9.525E+002	4.945E+001
AM-241	1.000	5485.70*	99.00	8.291E+002	1.410E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:19:00 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

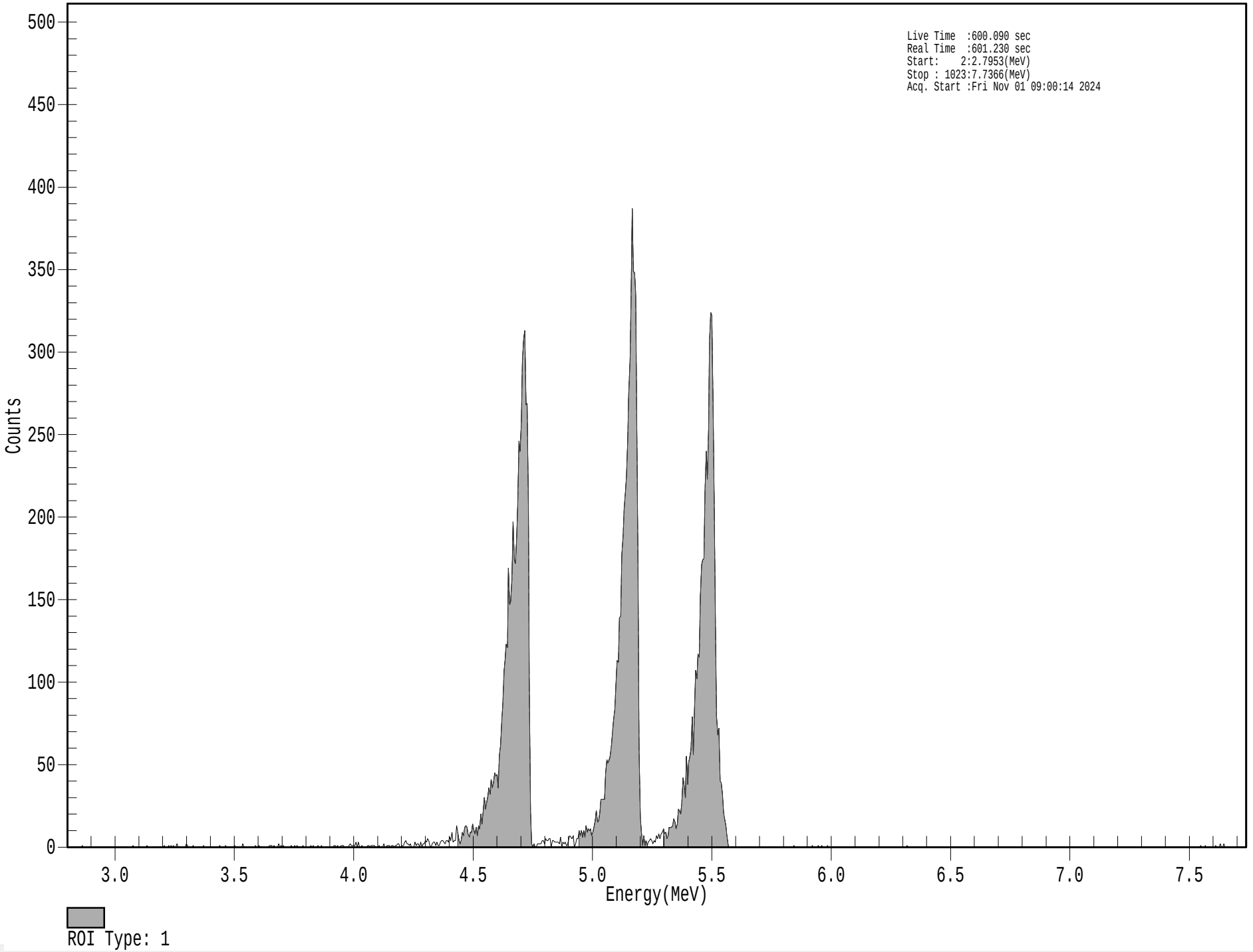
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

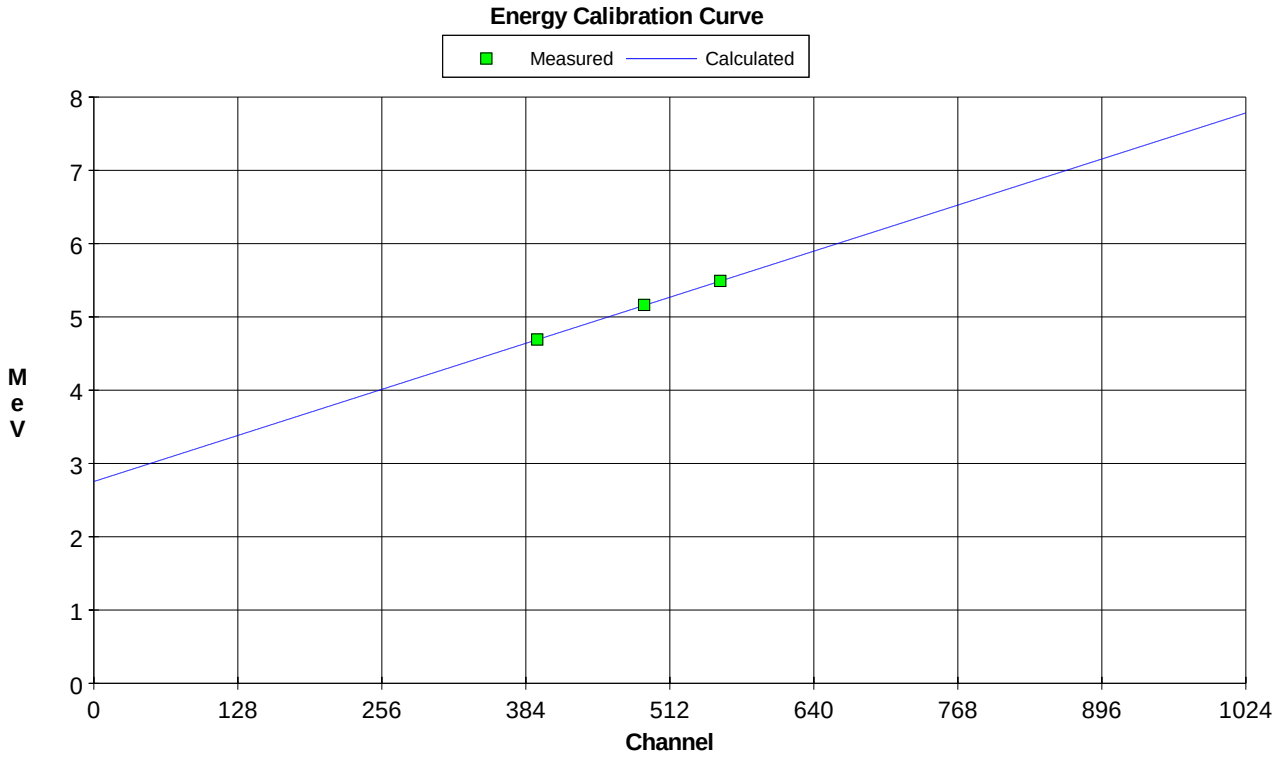
Errors quoted at 1.000 sigma

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Detector DET20

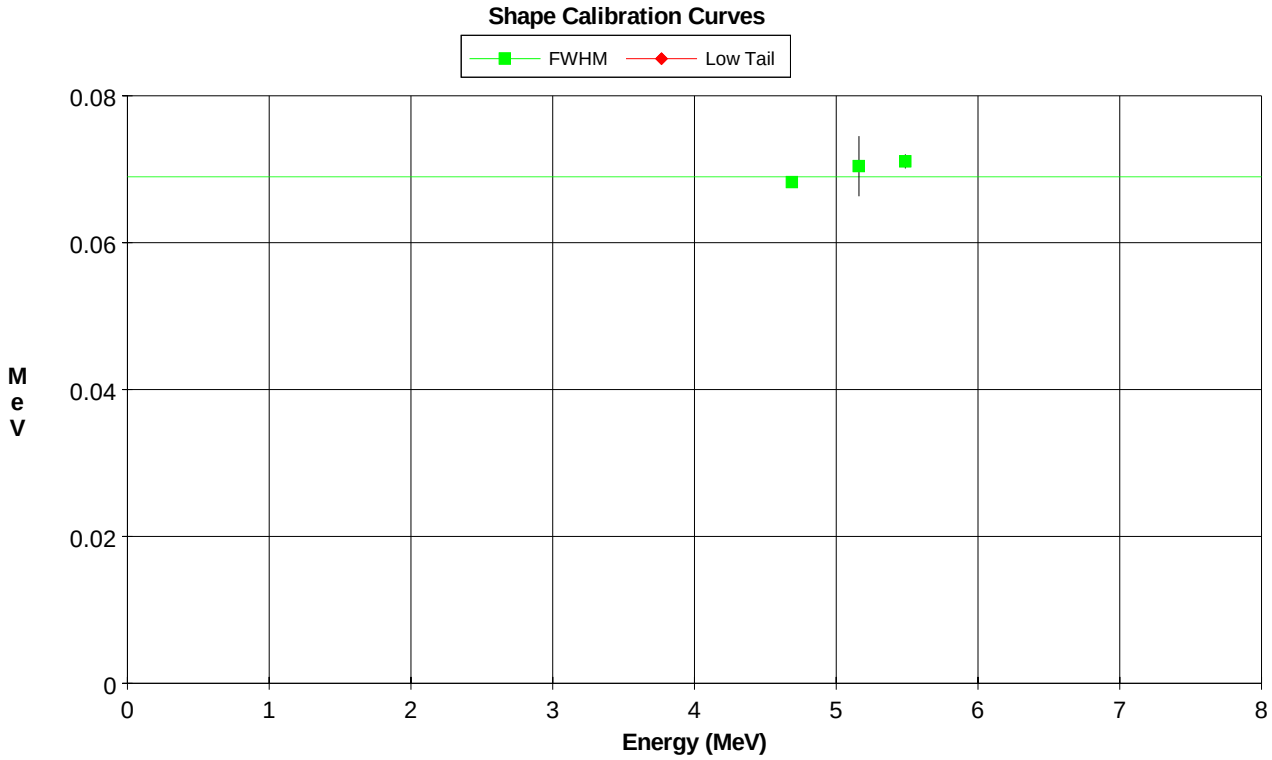


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Datasource: DET20
Energy = 2.752e+000 MeV + 4.912e-003*Ch
FWHM = 6.895e-002 MeV

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Datasource: DET20
Energy = 2.752e+000 MeV + 4.912e-003*Ch
FWHM = 6.895e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET21
Sample Title: DET 21 SC 110124
Peak Analysis Performed on: 11/1/2024 9:19:23 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	352-	417	395.26	4652.29	63.91	7.11E+003	84.33	0.00E+000
2	452-	509	489.97	5126.83	64.50	6.93E+003	83.27	0.00E+000
3	523-	582	557.14	5463.40	64.51	6.55E+003	80.92	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 21 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.055E+003	1.326E+001
PU-239	0.999	5160.00*	100.00	1.025E+003	5.281E+001
AM-241	1.000	5485.70*	99.00	9.781E+002	1.472E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:19:23 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

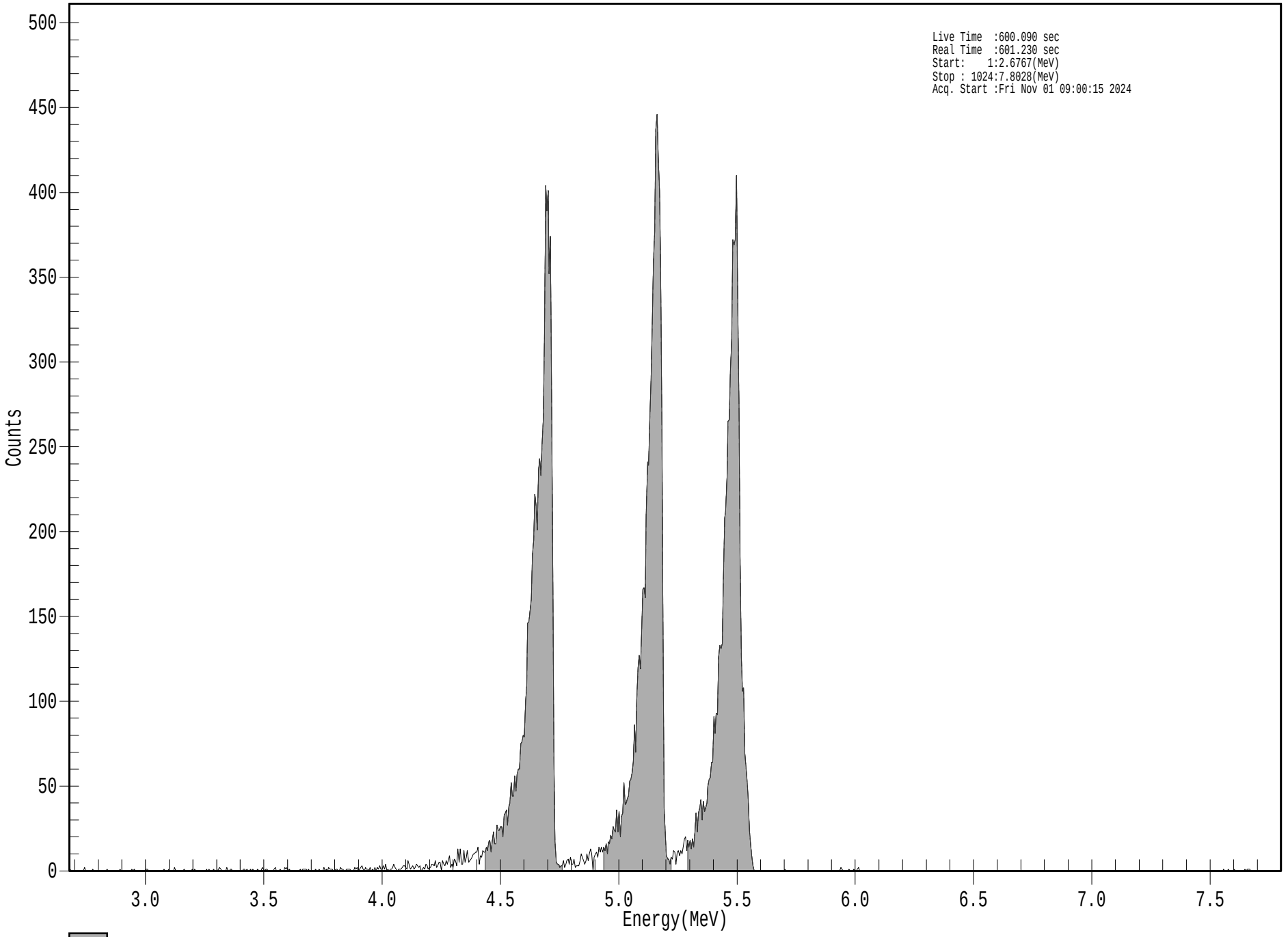
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

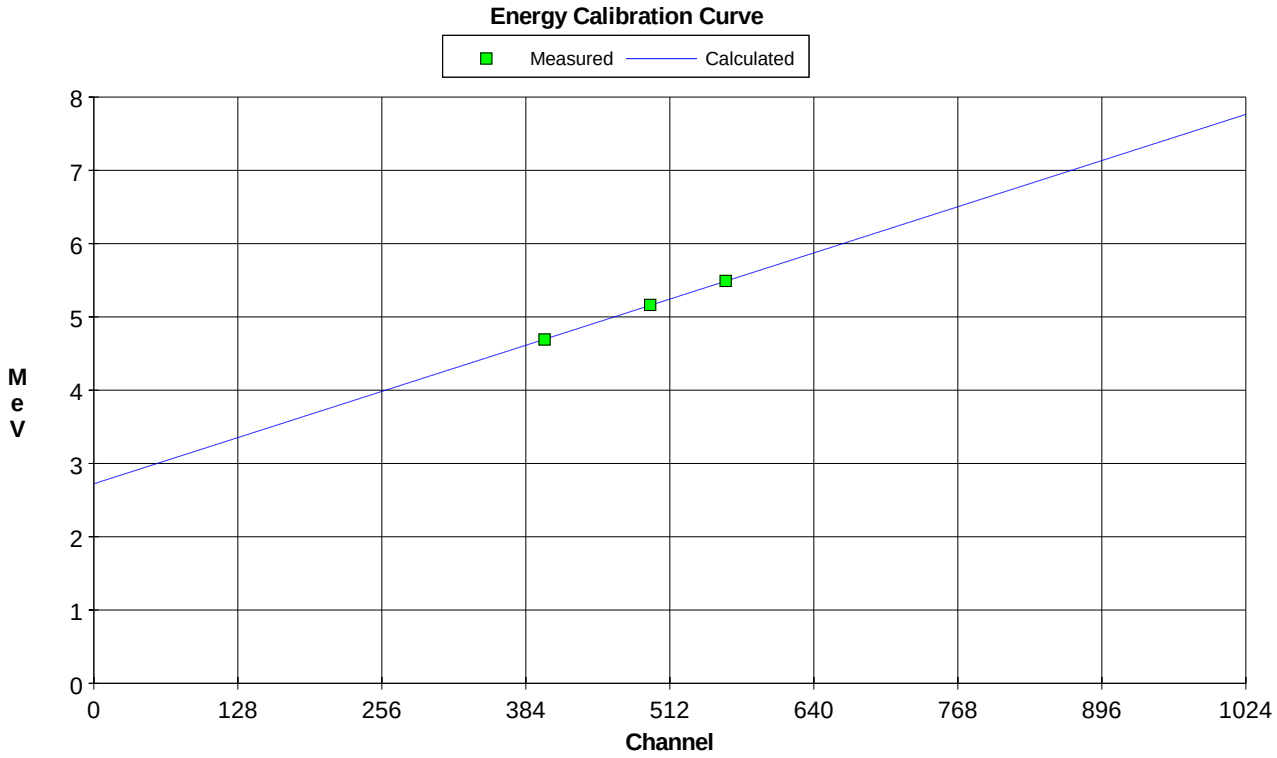
Errors quoted at 1.000 sigma

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Detector DET21

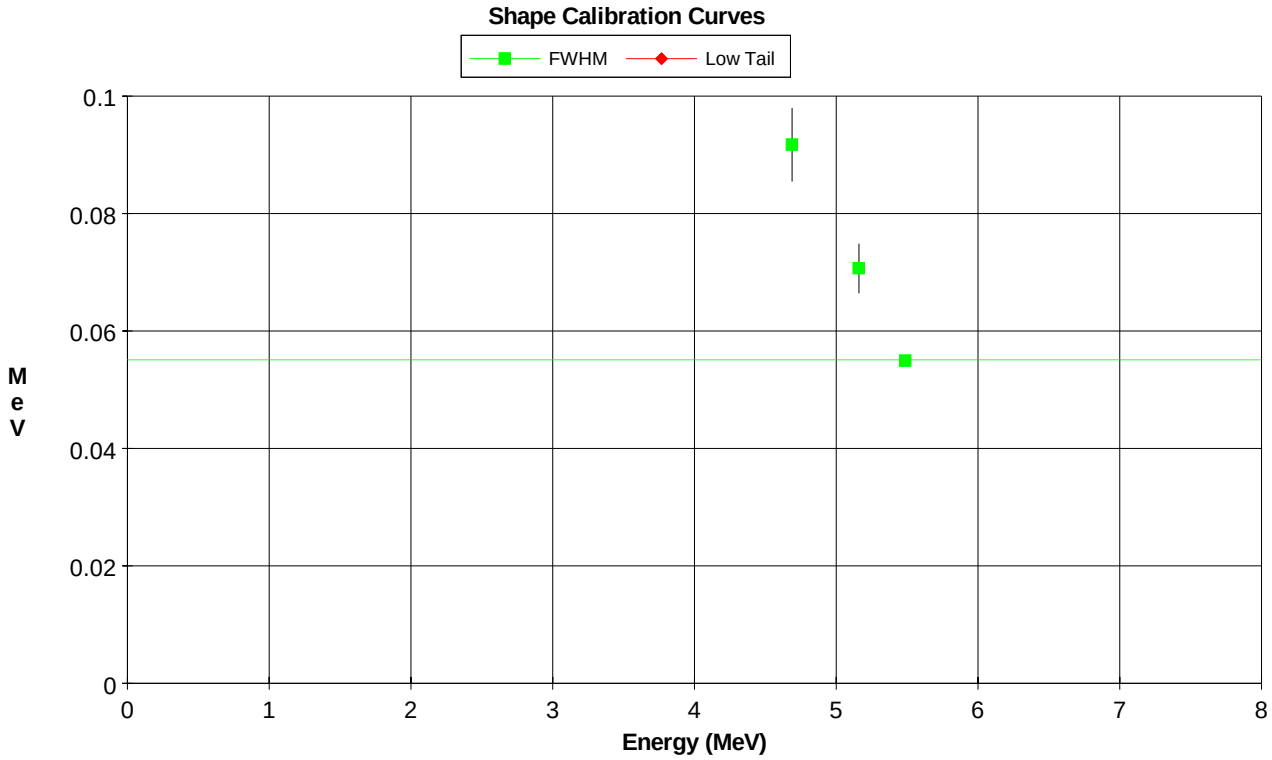


PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET21
Energy = 2.721e+000 MeV + 4.923e-003*Ch
FWHM = 5.509e-002 MeV

PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET21
Energy = 2.721e+000 MeV + 4.923e-003*Ch
FWHM = 5.509e-002 MeV

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET23
Sample Title: DET 23 SC 110124
Peak Analysis Performed on: 11/1/2024 9:19:42 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	349-	414	395.83	4668.30	50.92	6.41E+003	80.07	0.00E+000
2	449-	507	491.08	5146.53	55.78	6.22E+003	78.87	0.00E+000
3	520-	579	558.38	5484.41	61.72	5.65E+003	75.15	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 23 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.089E+003	1.434E+001
PU-239	1.000	5160.00*	100.00	1.054E+003	5.444E+001
AM-241	1.000	5485.70*	99.00	9.665E+002	1.530E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:19:42 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

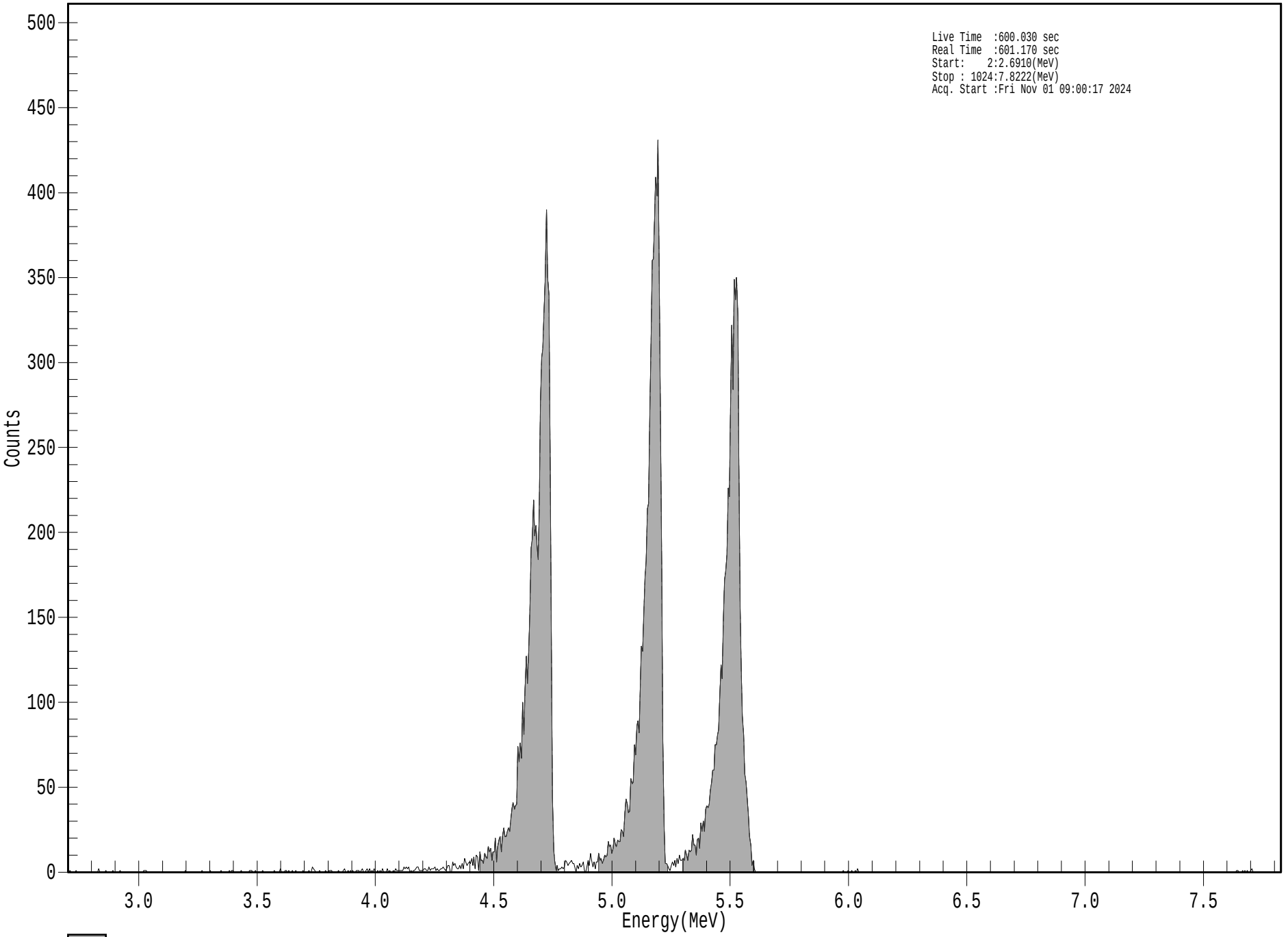
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

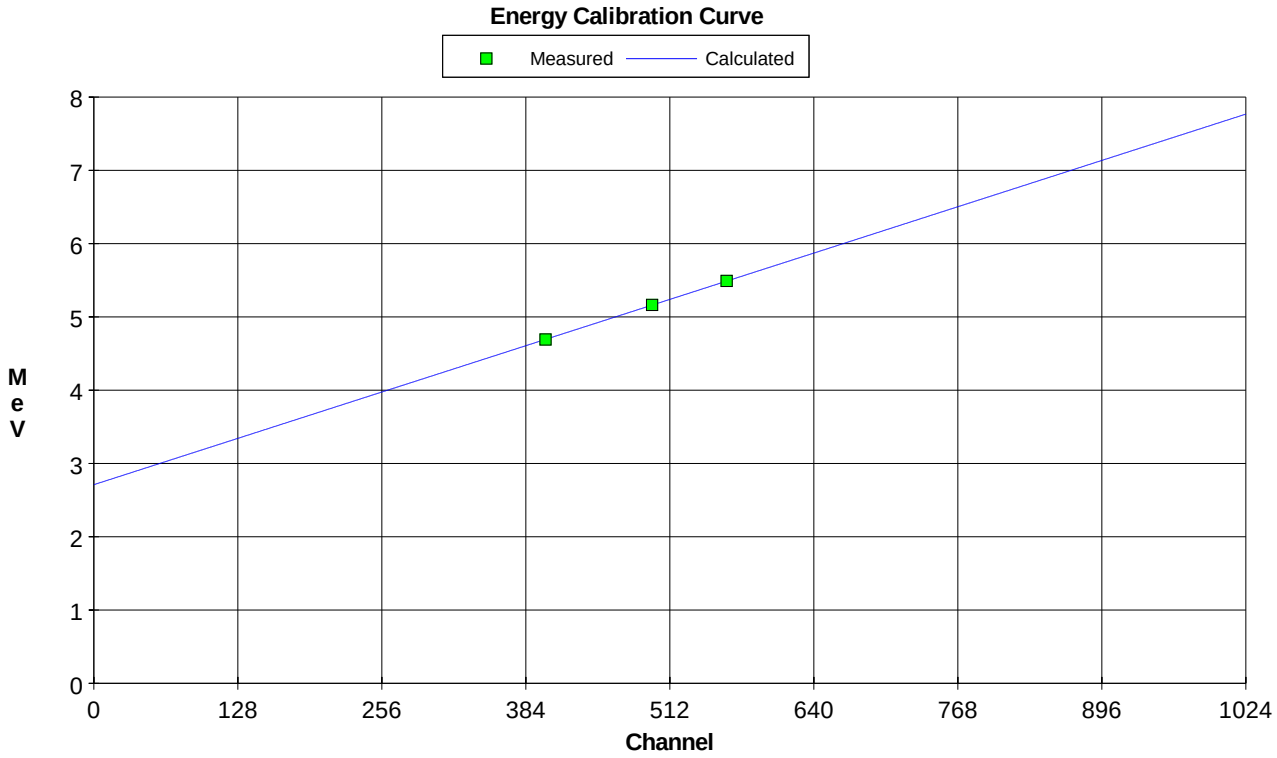
Errors quoted at 1.000 sigma

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Detector DET23

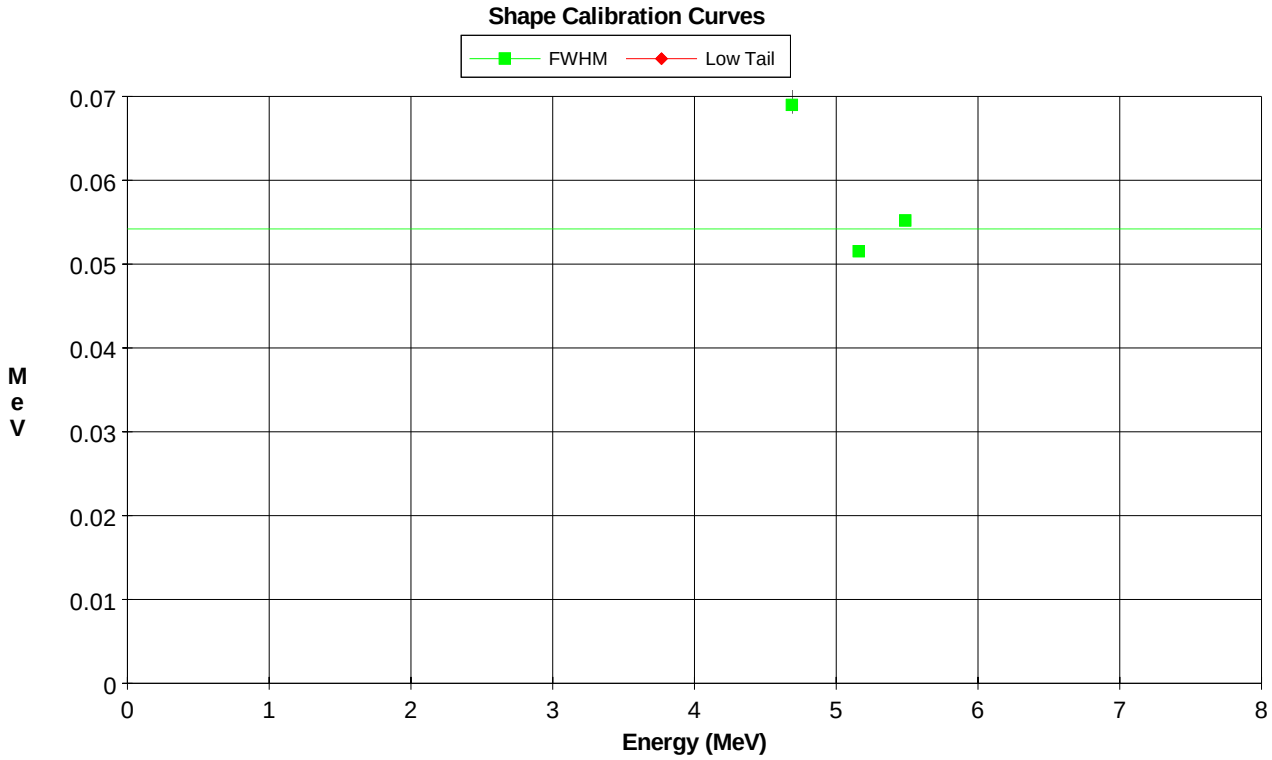


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Datasource: DET23
Energy = 2.709e+000 MeV + 4.938e-003*Ch
FWHM = 5.417e-002 MeV

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Datasource: DET23
Energy = 2.709e+000 MeV + 4.938e-003*Ch
FWHM = 5.417e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET24
Sample Title: DET 24 SC 110124
Peak Analysis Performed on: 11/1/2024 9:20:03 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	295-	358	341.02	4672.51	52.11	5.85E+003	76.50	0.00E+000
2	392-	447	431.57	5142.08	62.56	5.71E+003	75.54	0.00E+000
3	461-	517	495.84	5475.36	59.70	5.17E+003	71.89	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 24 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.009E+003	1.452E+001
PU-239	1.000	5160.00*	100.00	9.813E+002	5.101E+001
AM-241	1.000	5485.70*	99.00	8.977E+002	1.518E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:20:03 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

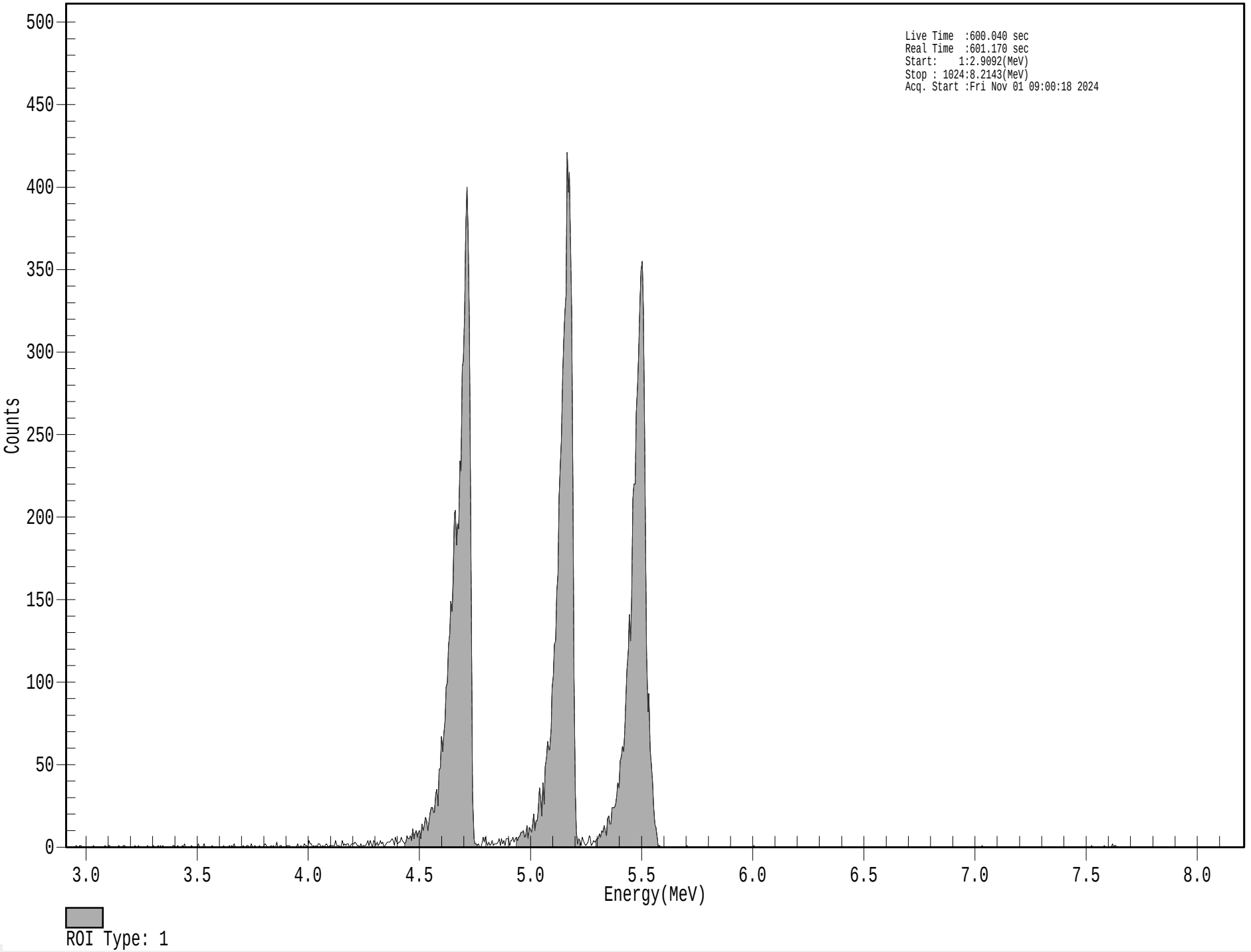
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

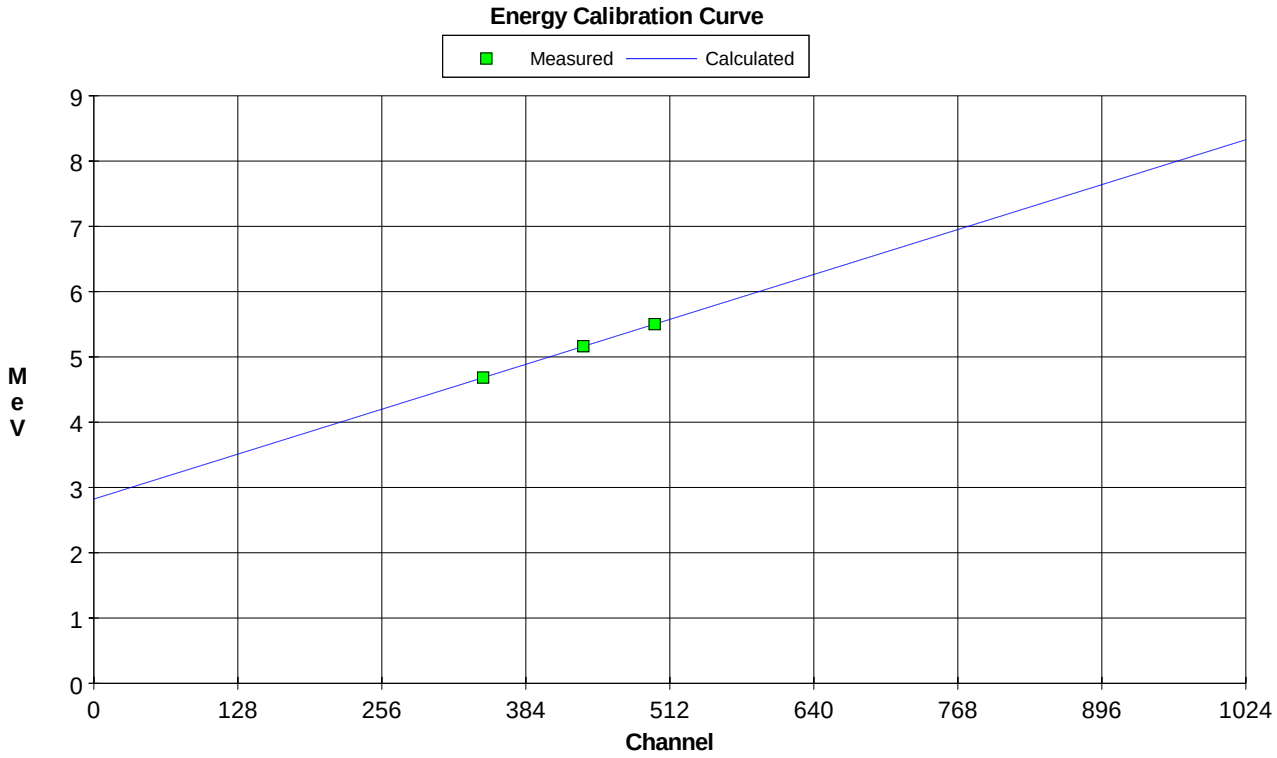
Errors quoted at 1.000 sigma

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Detector DET24

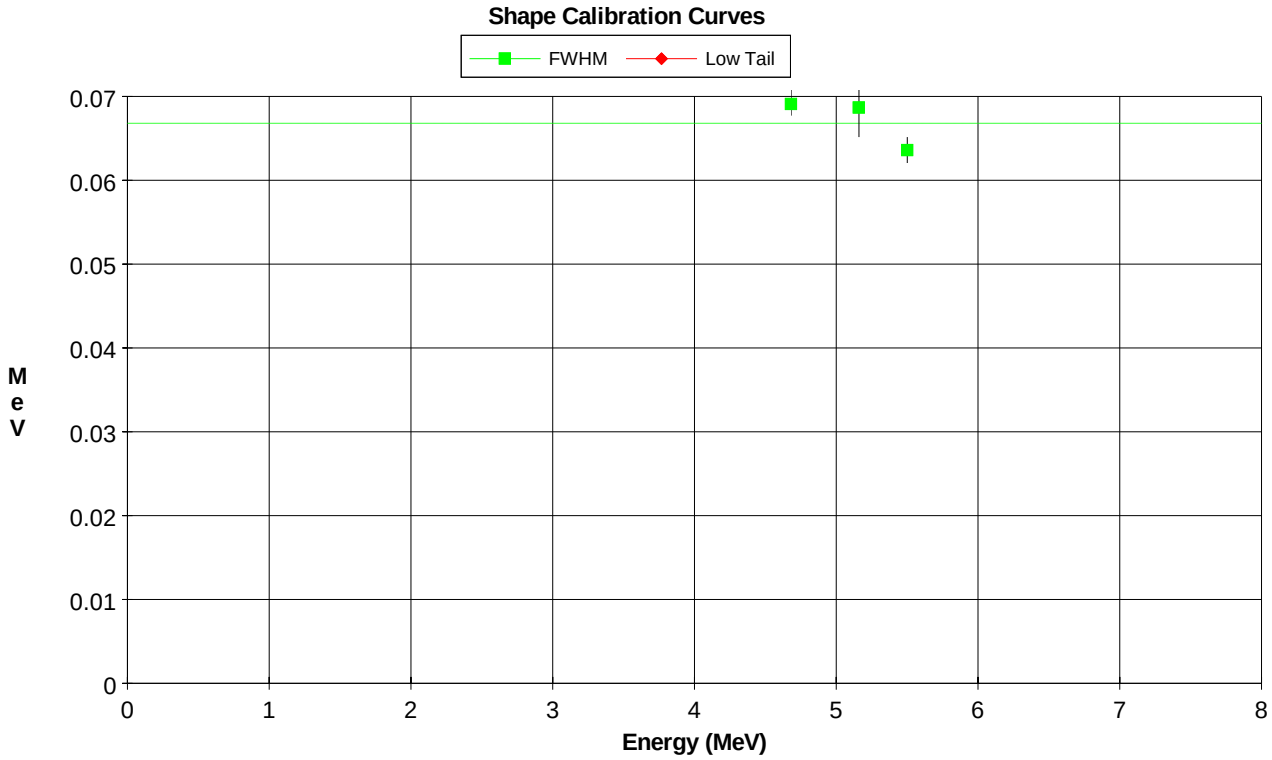


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Datasource: DET24
Energy = 2.820e+000 MeV + 5.375e-003*Ch
FWHM = 6.676e-002 MeV

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Datasource: DET24
Energy = 2.820e+000 MeV + 5.375e-003*Ch
FWHM = 6.676e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET25
Sample Title: DET 25 SC 110124
Peak Analysis Performed on: 11/1/2024 11:04:21 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	408-	482	460.73	4667.32	48.40	5.62E+003	74.98	0.00E+000
2	522-	587	567.31	5139.33	54.16	5.51E+003	74.22	0.00E+000
3	602-	668	642.25	5471.24	54.23	4.83E+003	69.49	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 25 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.101E+003	1.527E+001
PU-239	1.000	5160.00*	100.00	1.076E+003	5.576E+001
AM-241	1.000	5485.70*	99.00	9.525E+002	1.587E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:04:21 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

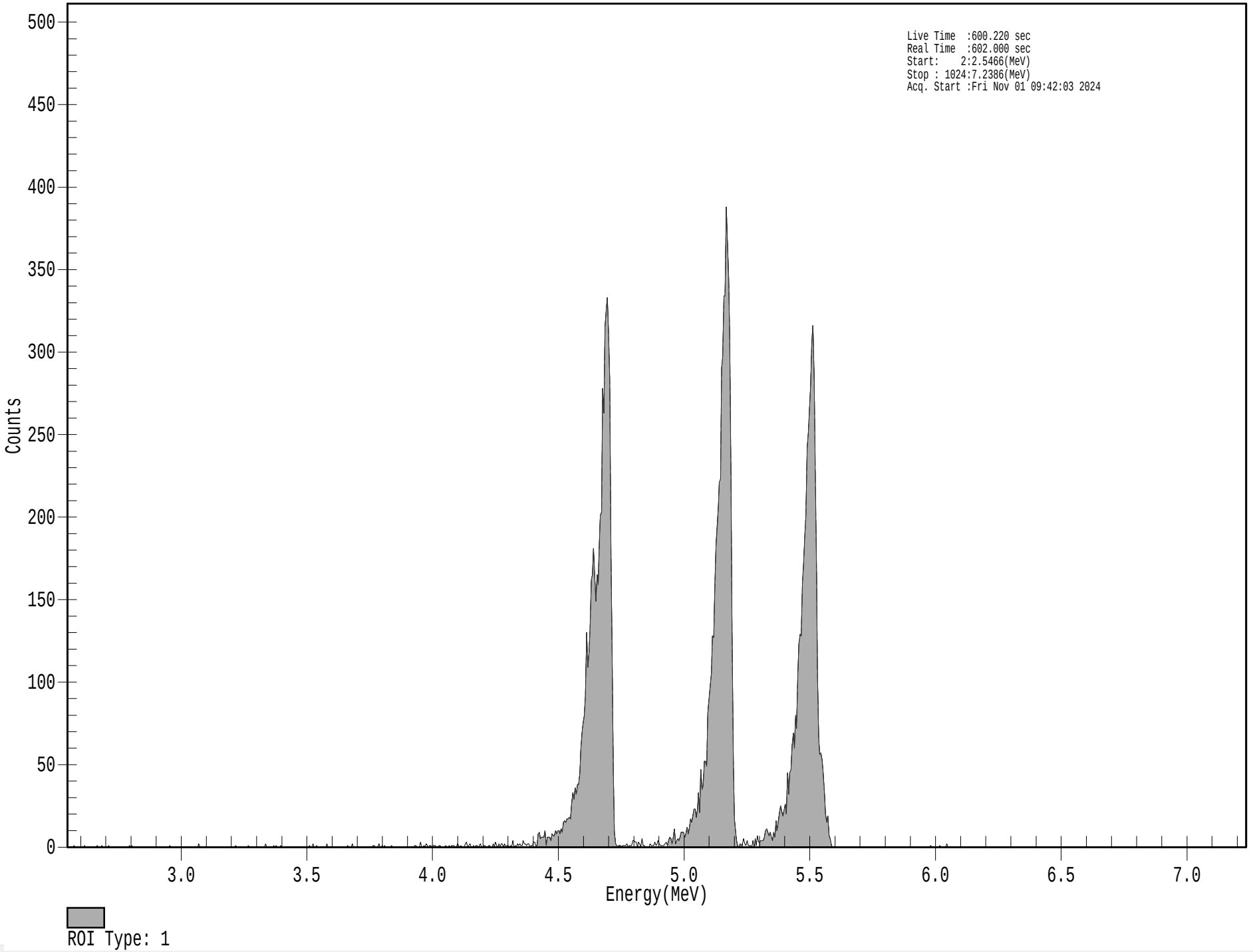
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

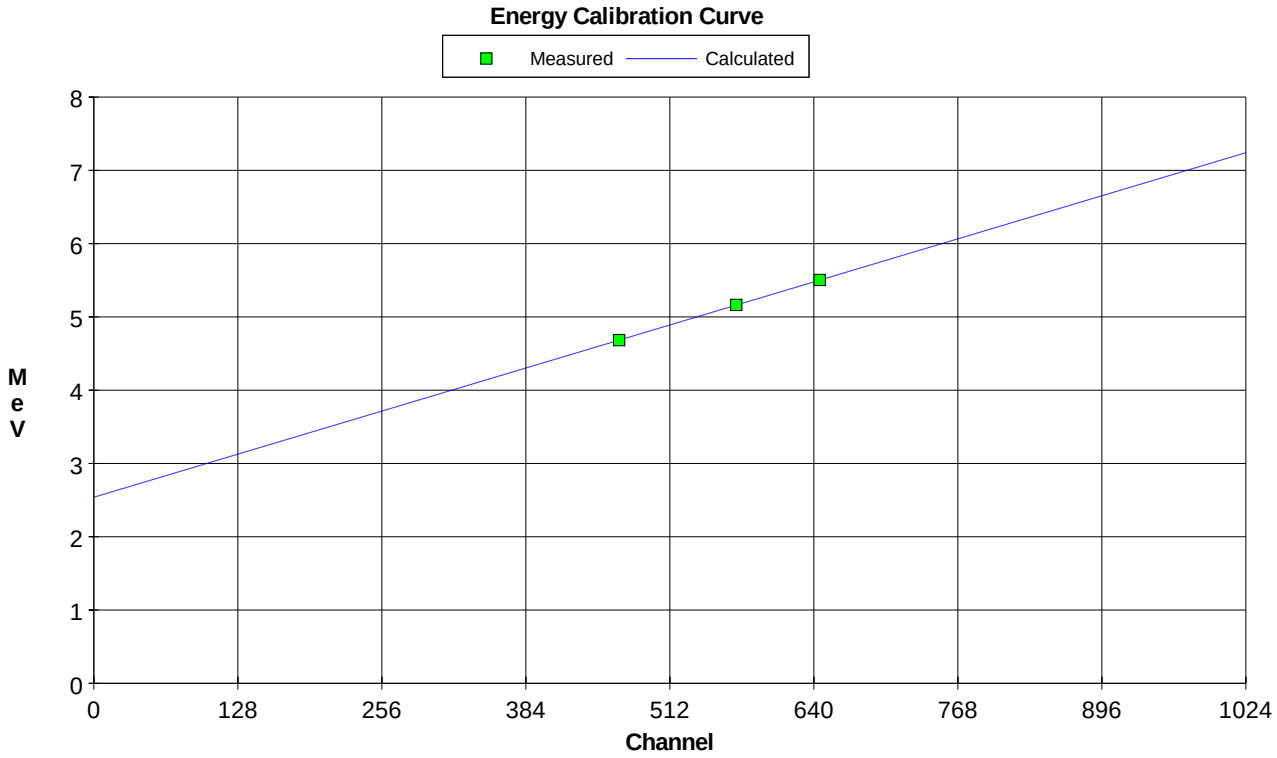
Errors quoted at 1.000 sigma

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Detector DET25

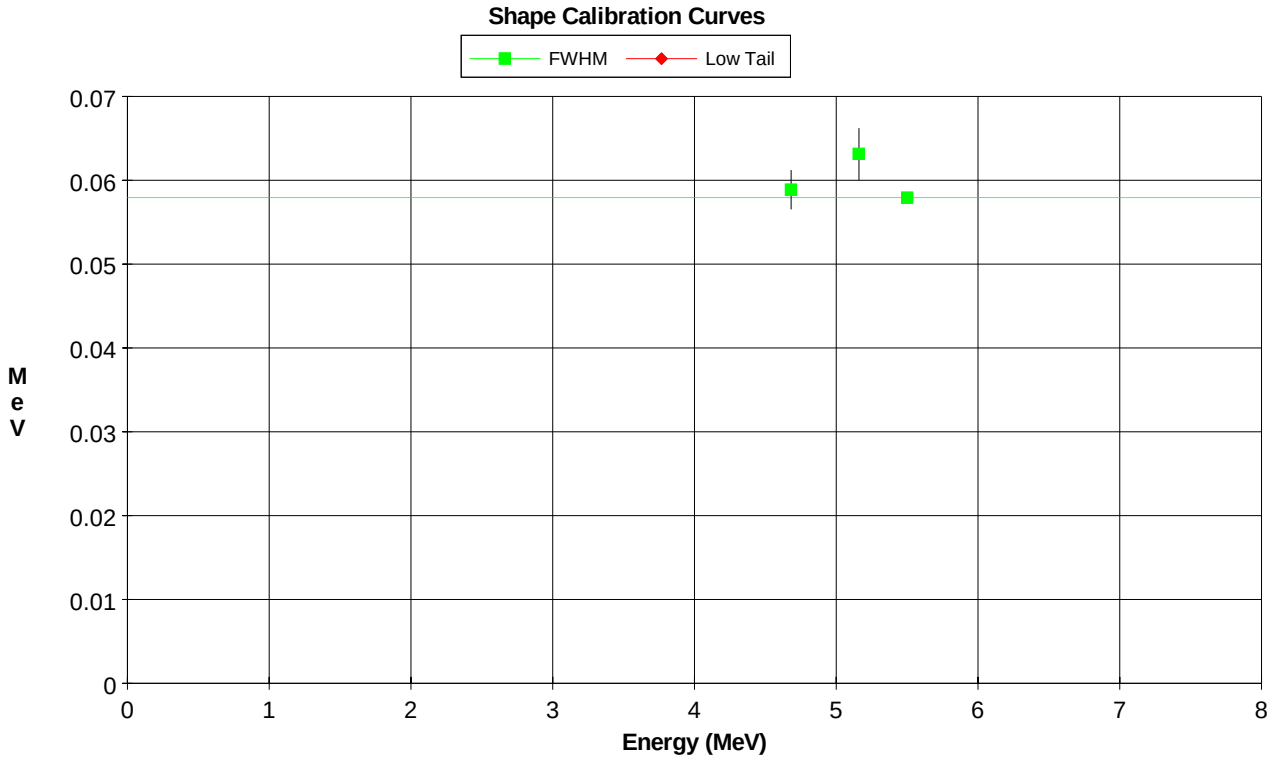


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Datasource: DET25
Energy = 2.537e+000 MeV + 4.591e-003*Ch
FWHM = 5.793e-002 MeV

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Datasource: DET25
Energy = 2.537e+000 MeV + 4.591e-003*Ch
FWHM = 5.793e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET26
Sample Title: DET 26 SC 110124
Peak Analysis Performed on: 11/1/2024 11:04:39 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	423-	495	469.28	4642.72	45.31	5.31E+003	72.88	0.00E+000
2	534-	597	576.22	5128.85	58.89	4.94E+003	70.26	0.00E+000
3	613-	677	651.70	5471.97	48.59	4.70E+003	68.53	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 26 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.048E+003	1.492E+001
PU-239	0.999	5160.00*	100.00	9.714E+002	5.055E+001
AM-241	1.000	5485.70*	99.00	9.333E+002	1.572E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:04:39 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

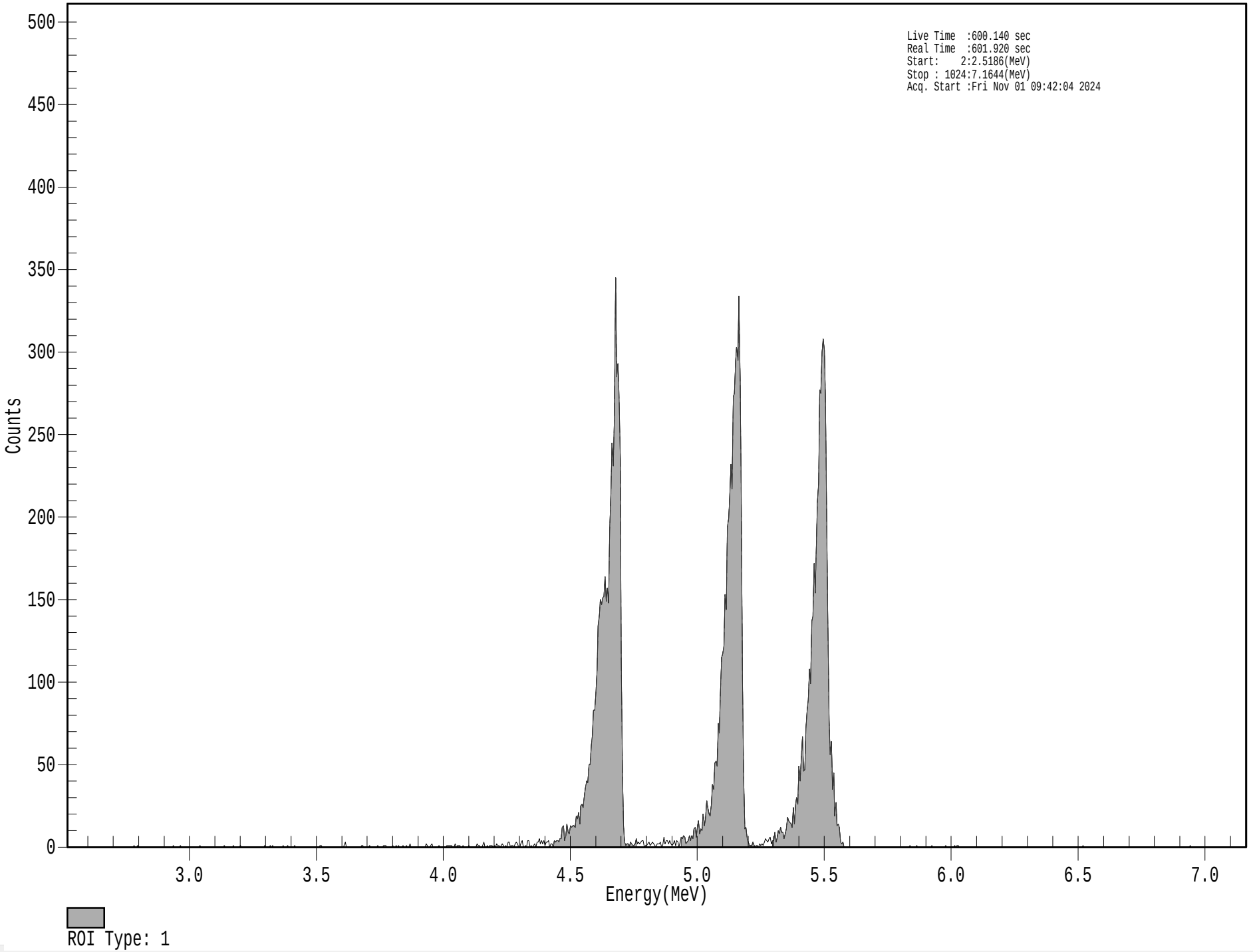
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

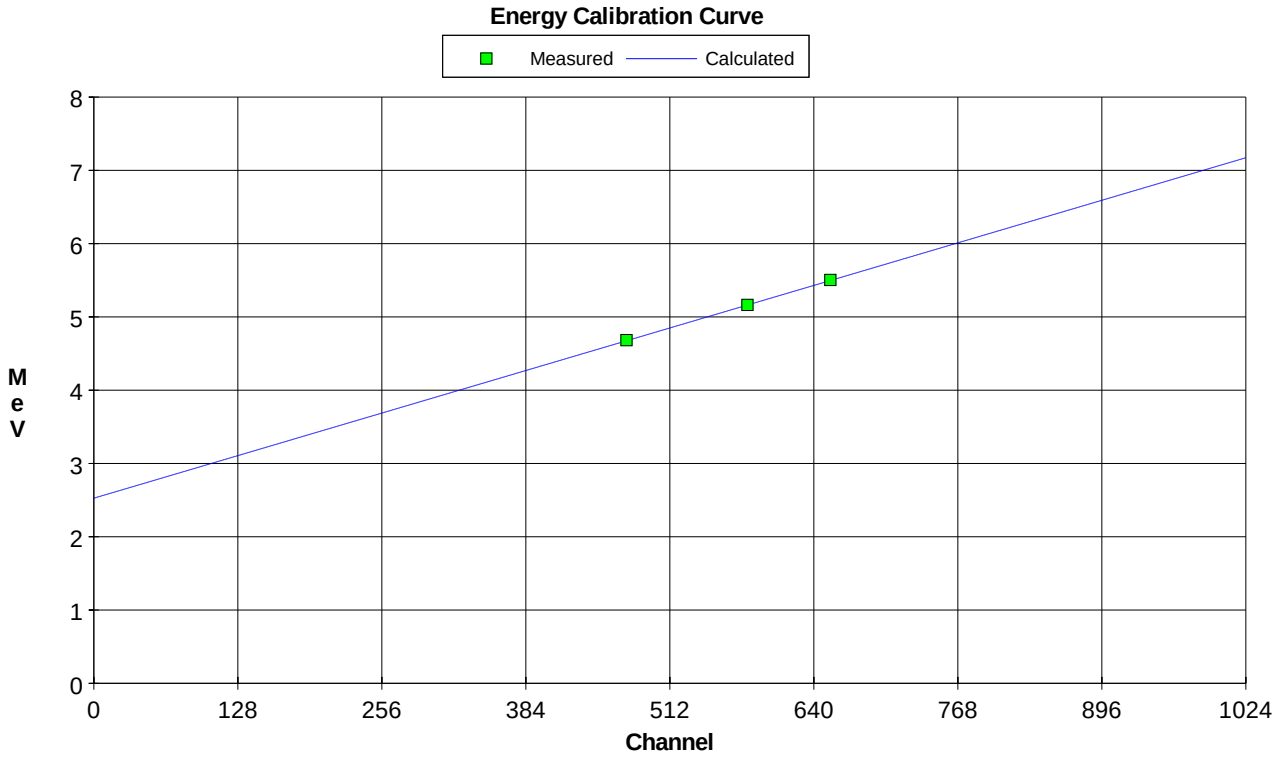
Errors quoted at 1.000 sigma

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Detector DET26

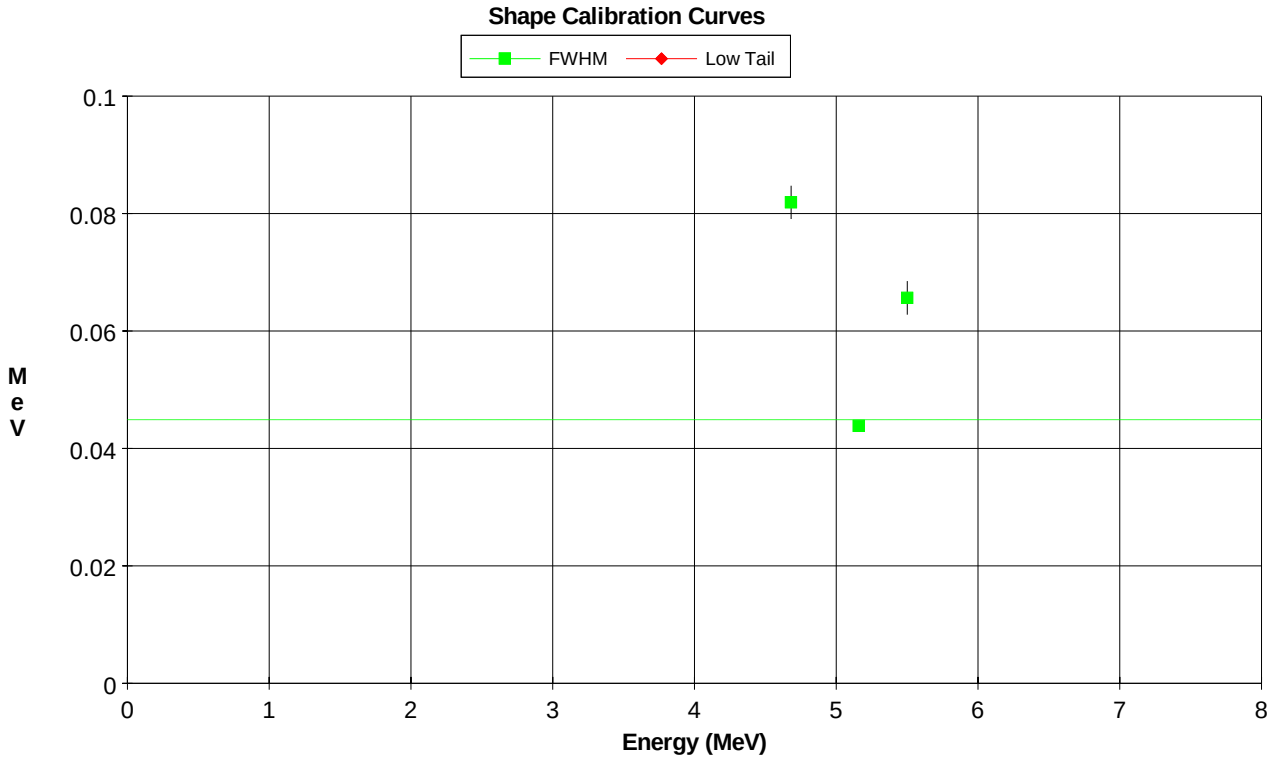


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Datasource: DET26
Energy = 2.524e+000 MeV + 4.537e-003*Ch
FWHM = 4.487e-002 MeV

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Datasource: DET26
Energy = 2.524e+000 MeV + 4.537e-003*Ch
FWHM = 4.487e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET27
Sample Title: DET 27 SC 110124
Peak Analysis Performed on: 11/1/2024 11:05:02 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	405-	477	451.84	4645.30	46.01	5.48E+003	74.01	0.00E+000
2	517-	581	557.57	5119.22	53.54	5.13E+003	71.60	0.00E+000
3	597-	662	632.18	5453.62	52.99	4.76E+003	68.97	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 27 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.047E+003	1.450E+001
PU-239	0.999	5160.00*	100.00	9.769E+002	5.072E+001
AM-241	0.999	5485.70*	99.00	9.155E+002	1.521E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:05:02 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

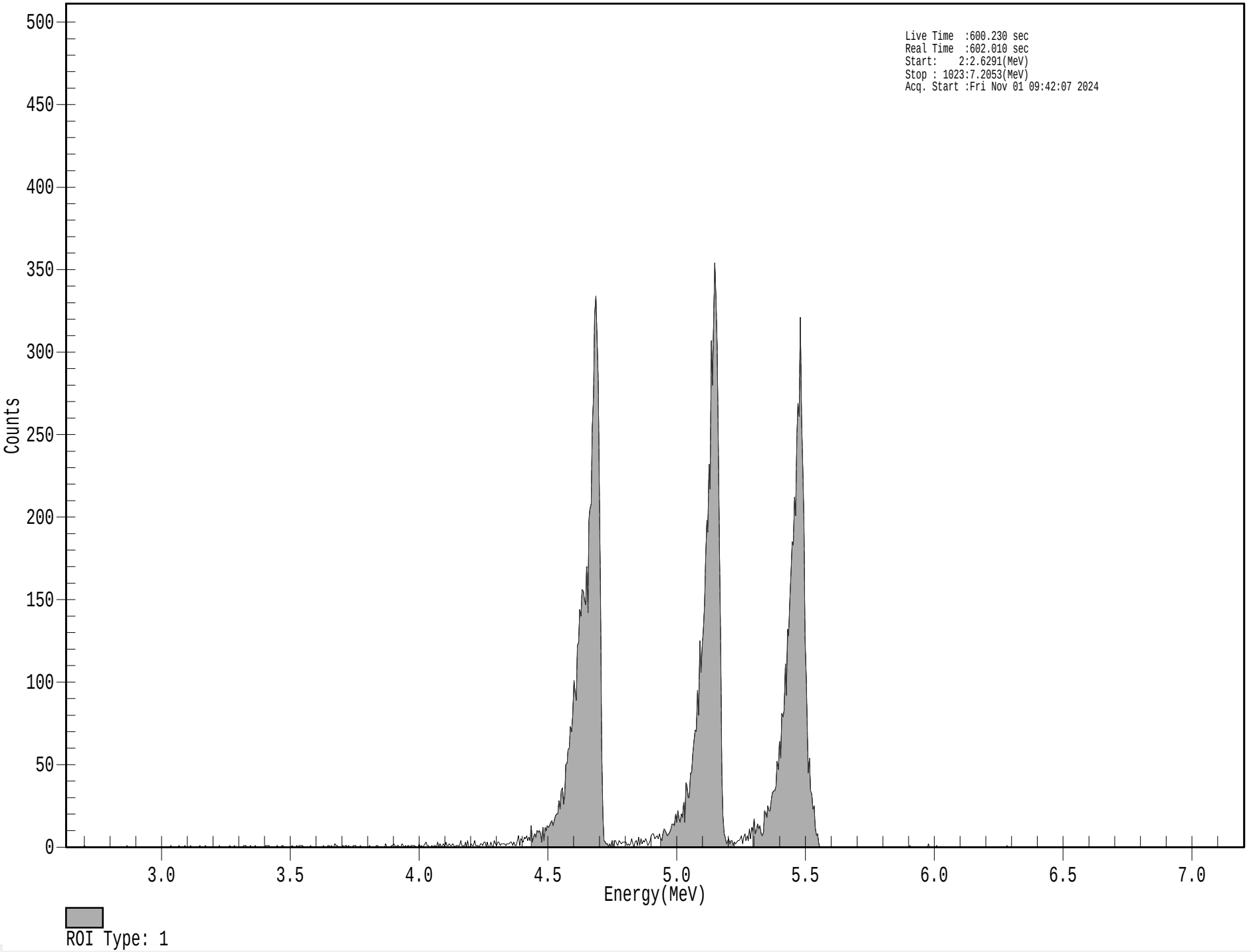
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

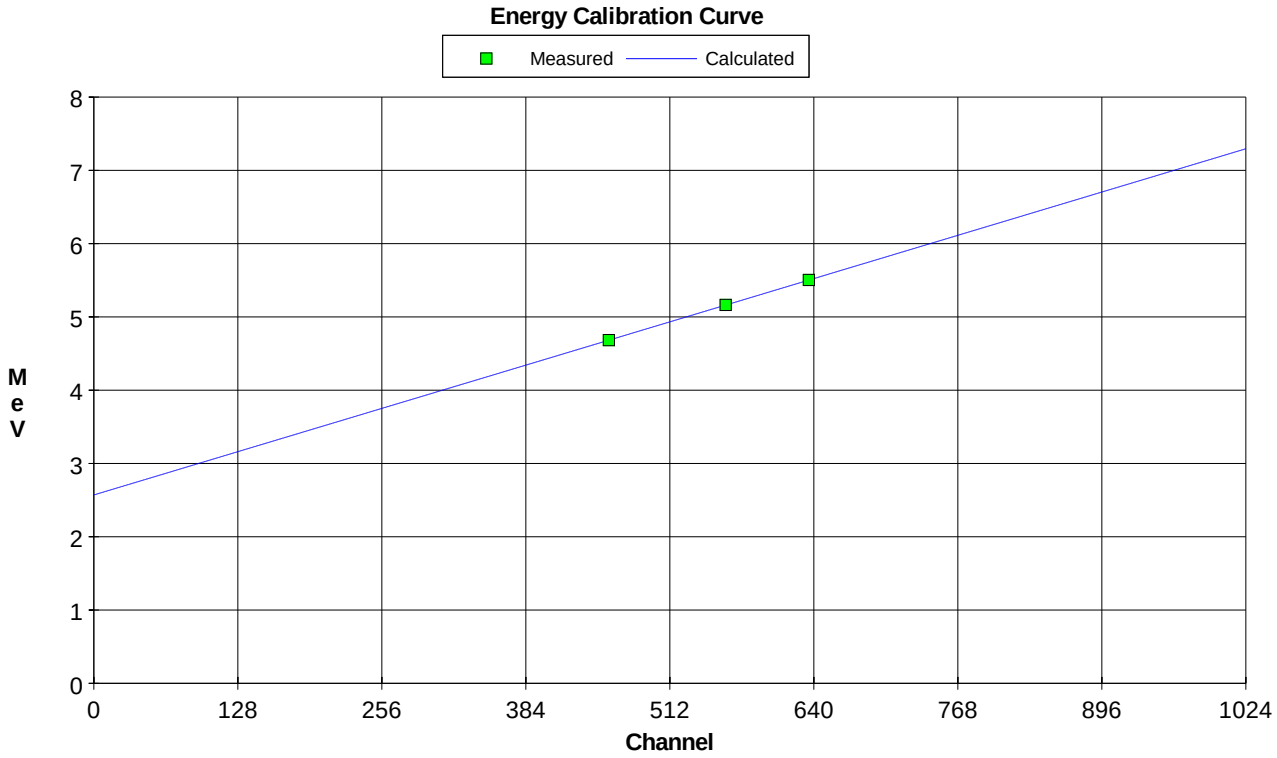
Errors quoted at 1.000 sigma

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Detector DET27

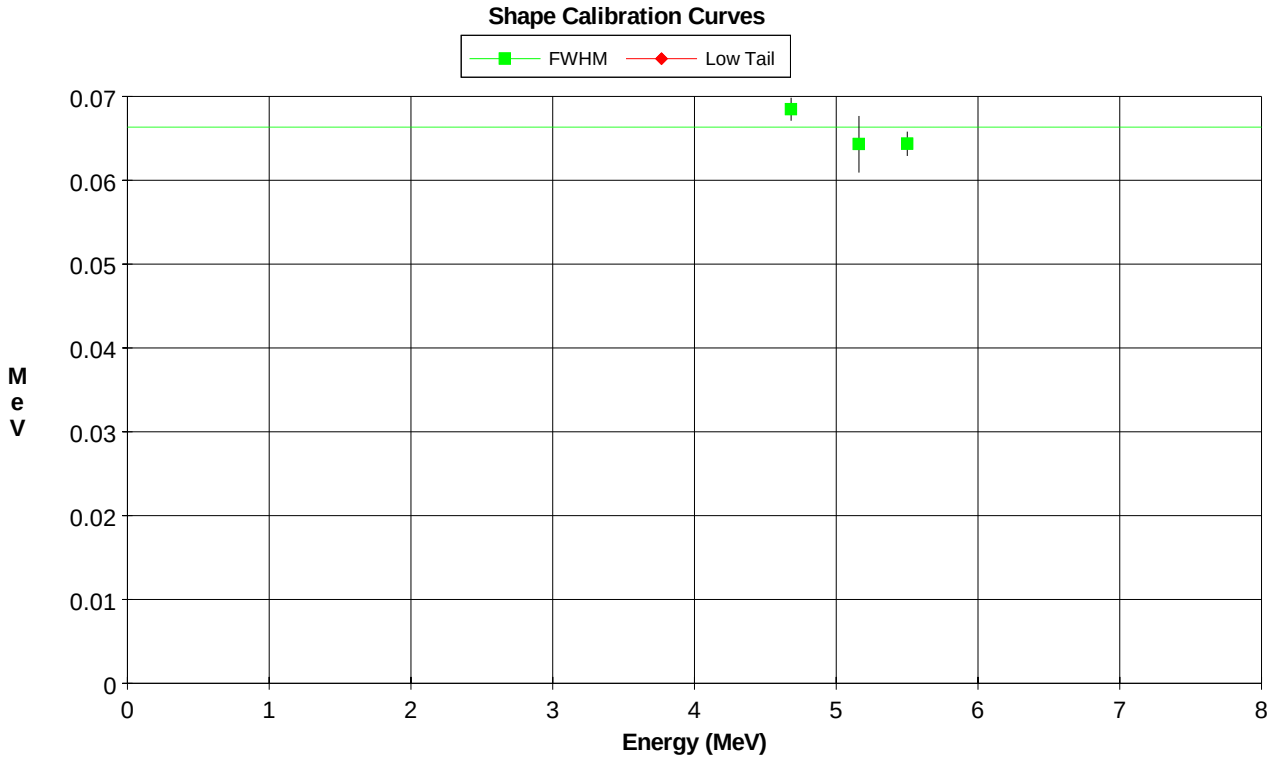


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Datasource: DET27
Energy = 2.568e+000 MeV + 4.613e-003*Ch
FWHM = 6.632e-002 MeV

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Datasource: DET27
Energy = 2.568e+000 MeV + 4.613e-003*Ch
FWHM = 6.632e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET28
Sample Title: DET 28 SC 110124
Peak Analysis Performed on: 11/1/2024 11:05:16 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	409-	479	455.53	4650.54	65.07	5.93E+003	77.02	0.00E+000
2	517-	578	558.00	5132.60	57.28	6.04E+003	77.70	0.00E+000
3	592-	654	629.99	5471.28	58.42	5.30E+003	72.80	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 28 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.118E+003	1.557E+001
PU-239	1.000	5160.00*	100.00	1.134E+003	5.875E+001
AM-241	1.000	5485.70*	99.00	1.006E+003	1.654E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:05:16 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

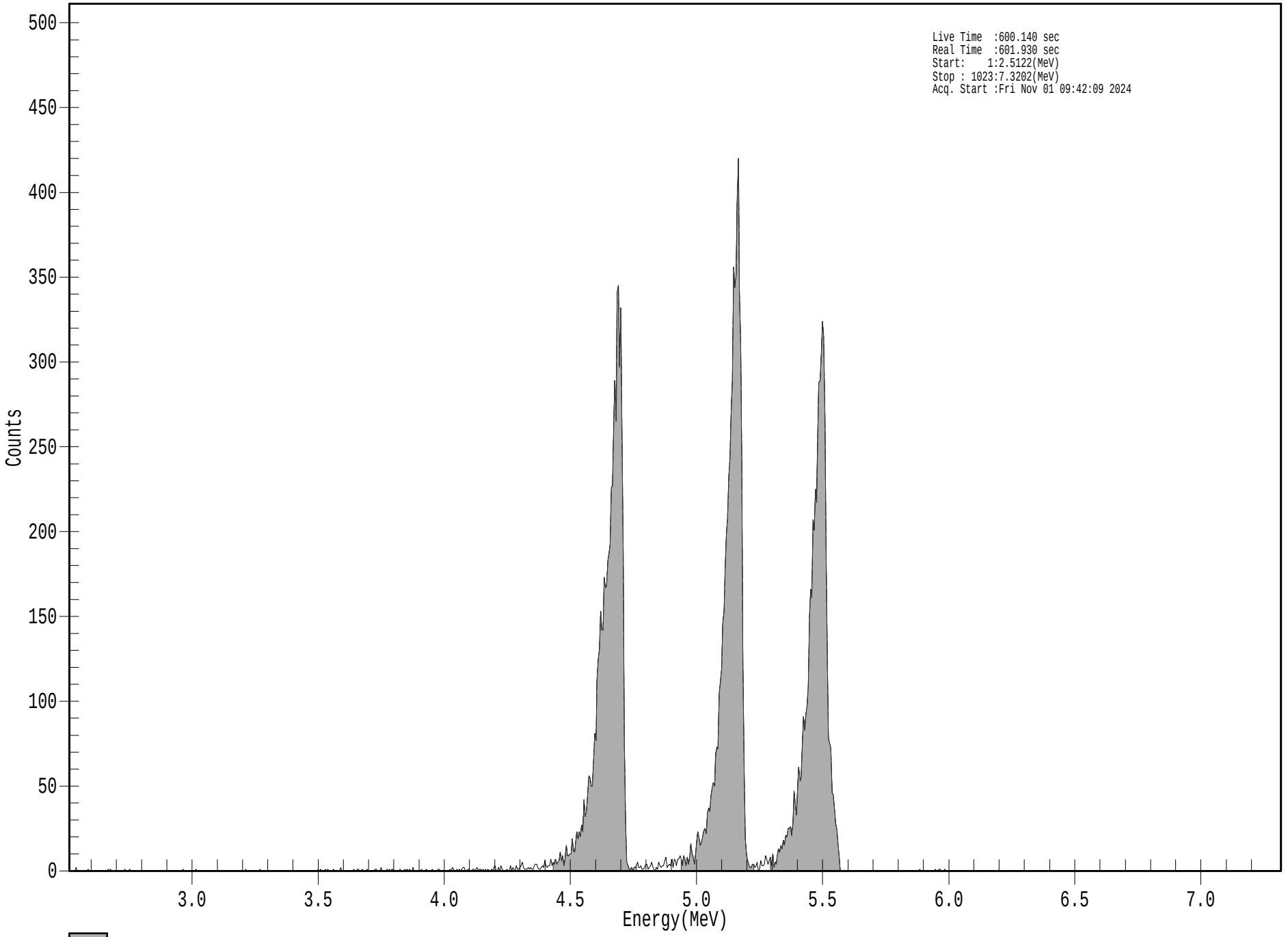
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

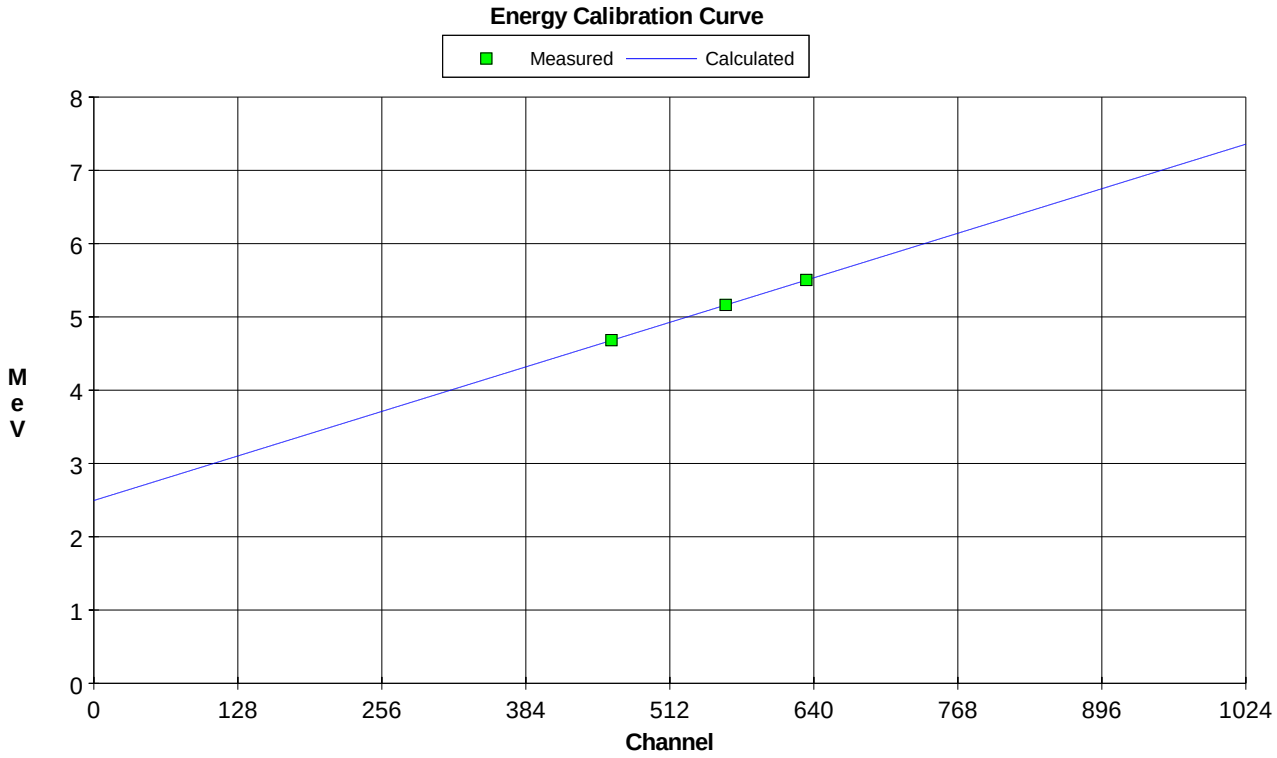
Errors quoted at 1.000 sigma

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Detector DET28

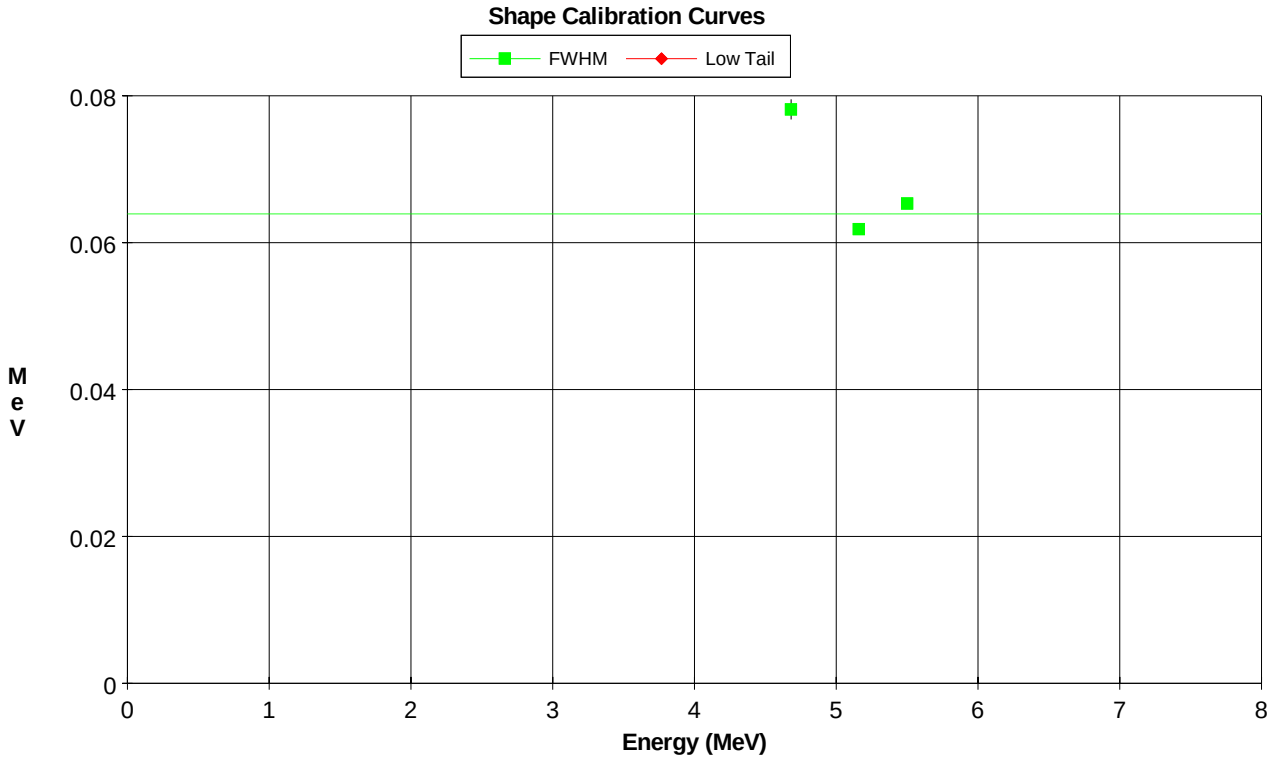


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Datasource: DET28
Energy = 2.493e+000 MeV + 4.748e-003*Ch
FWHM = 6.392e-002 MeV

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Datasource: DET28
Energy = 2.493e+000 MeV + 4.748e-003*Ch
FWHM = 6.392e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET29
Sample Title: DET 29 SC 110124
Peak Analysis Performed on: 11/1/2024 11:05:38 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	400-	471	444.85	4640.17	58.19	5.27E+003	72.59	0.00E+000
2	509-	570	545.45	5108.42	56.51	5.54E+003	74.40	0.00E+000
3	585-	648	616.72	5440.16	54.85	4.86E+003	69.69	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 29 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	9.955E+002	1.517E+001
PU-239	0.998	5160.00*	100.00	1.043E+003	5.433E+001
AM-241	0.999	5485.70*	99.00	9.240E+002	1.613E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:05:38 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

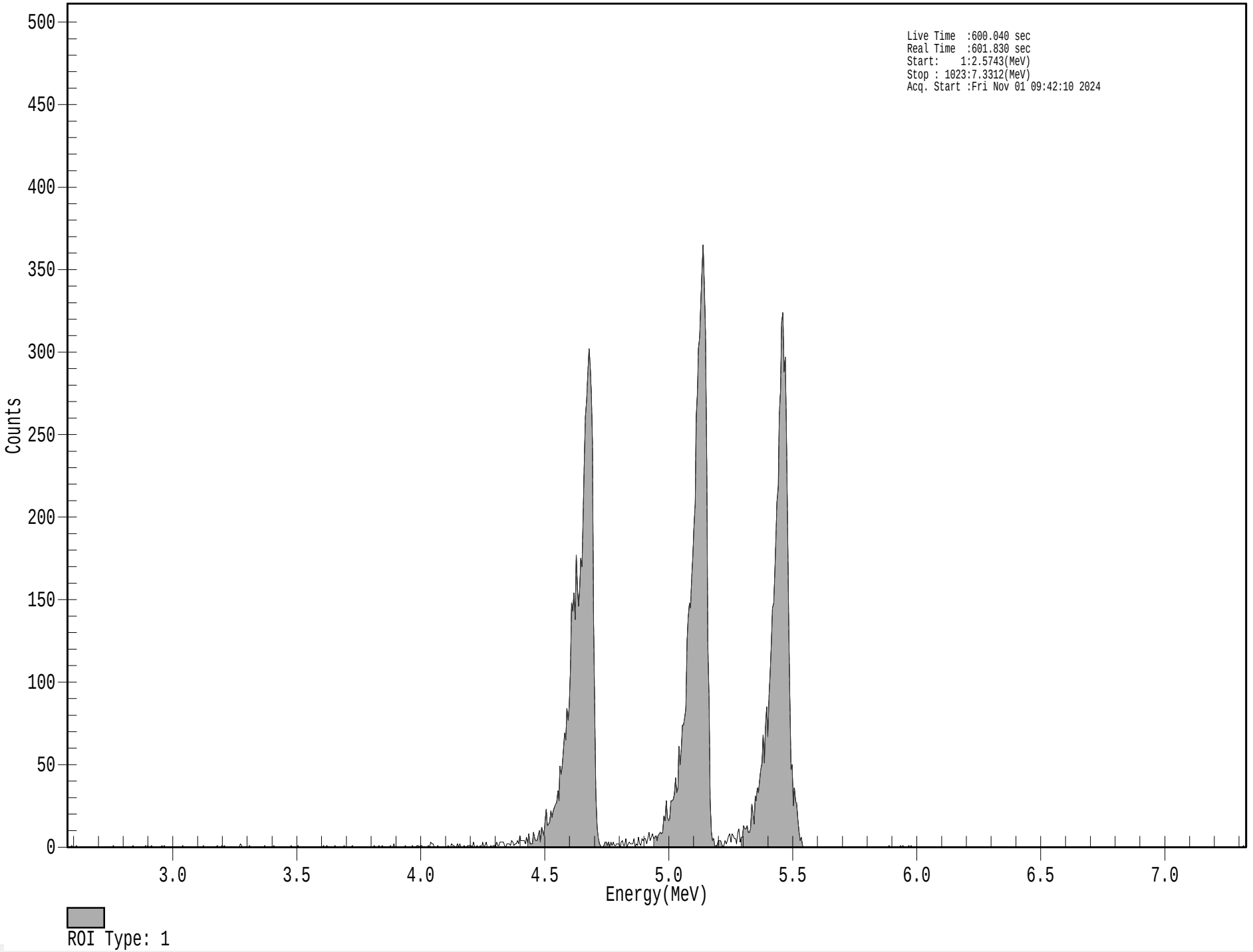
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

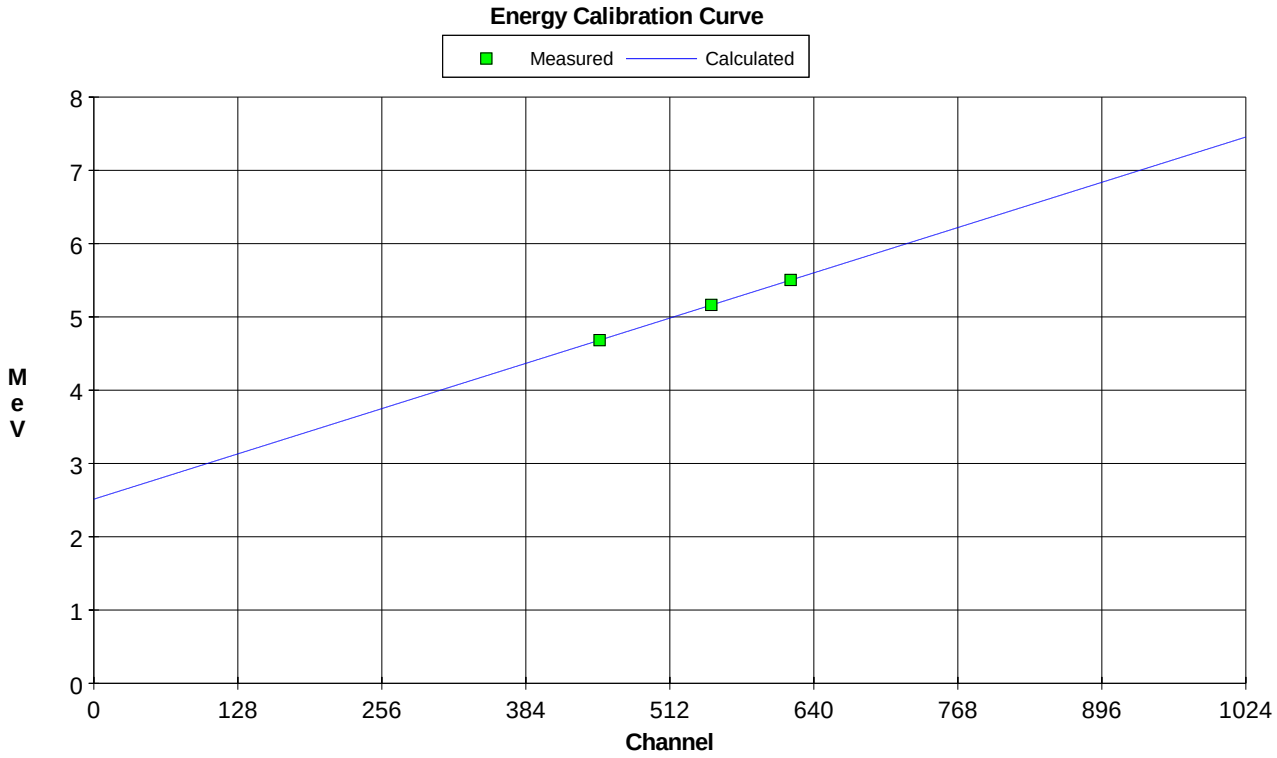
Errors quoted at 1.000 sigma

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Detector DET29

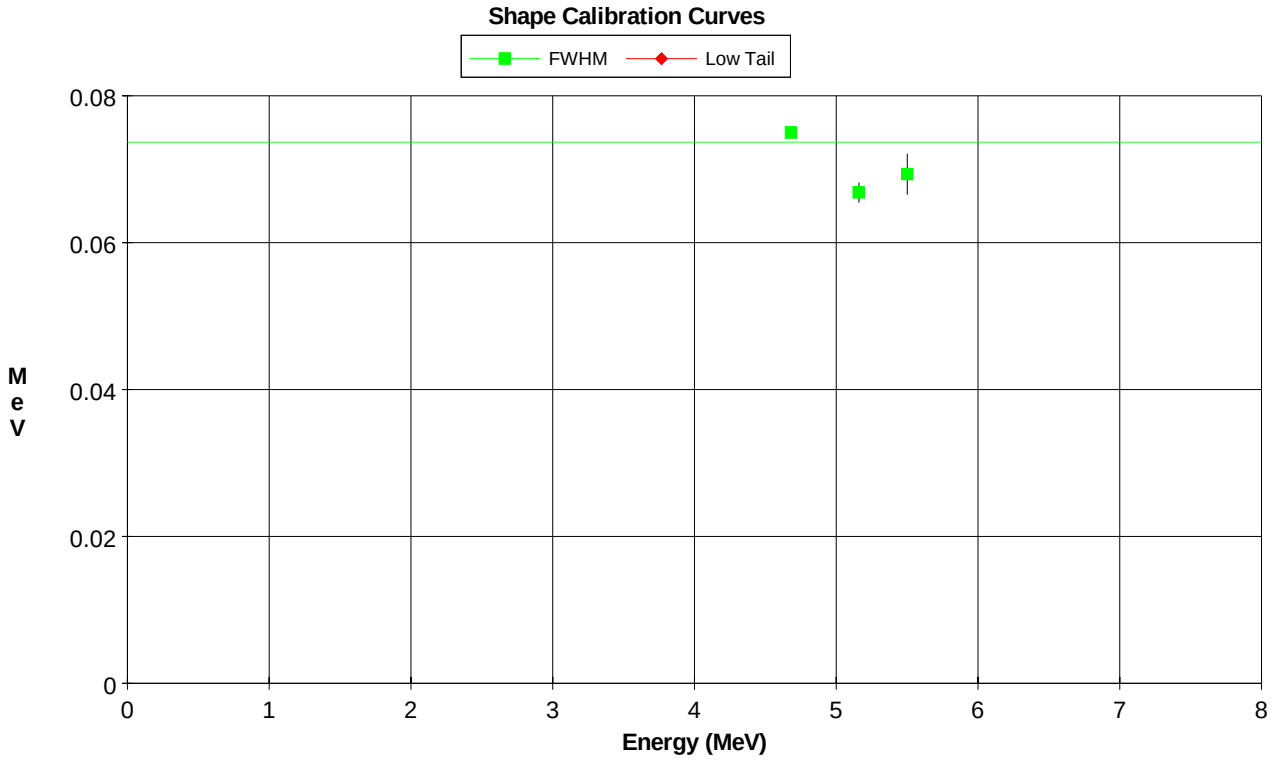


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Datasource: DET29
Energy = 2.511e+000 MeV + 4.826e-003*Ch
FWHM = 7.368e-002 MeV

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Datasource: DET29
Energy = 2.511e+000 MeV + 4.826e-003*Ch
FWHM = 7.368e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET30
Sample Title: DET 30 SC 110124
Peak Analysis Performed on: 11/1/2024 11:05:55 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	418-	489	467.87	4661.67	87.02	6.19E+003	78.67	0.00E+000
2	528-	591	571.87	5135.99	56.18	6.00E+003	77.43	0.00E+000
3	607-	670	645.75	5472.97	62.39	5.79E+003	76.08	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 30 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.057E+003	1.510E+001
PU-239	1.000	5160.00*	100.00	1.021E+003	5.306E+001
AM-241	1.000	5485.70*	99.00	9.956E+002	1.640E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:05:55 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

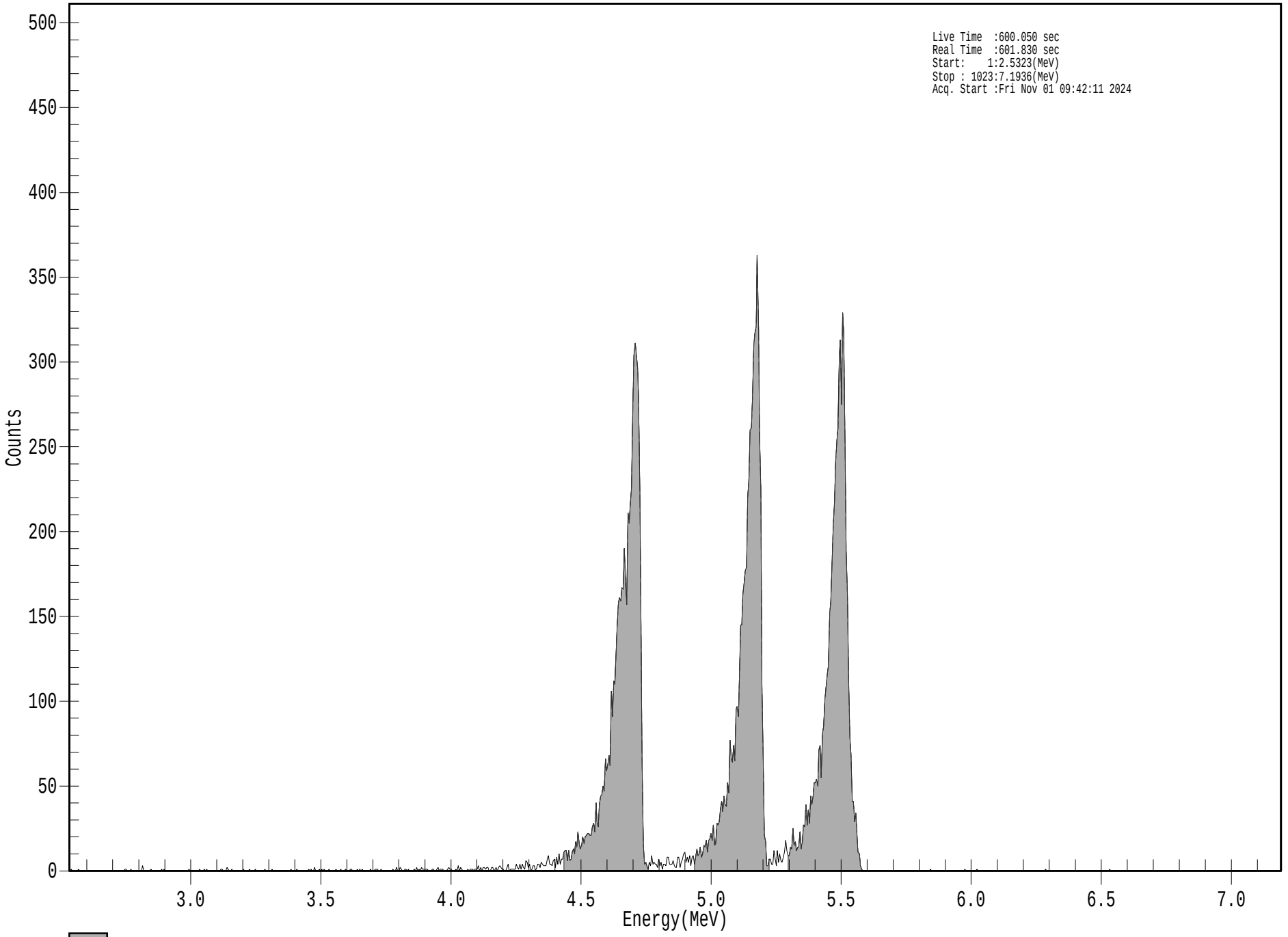
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

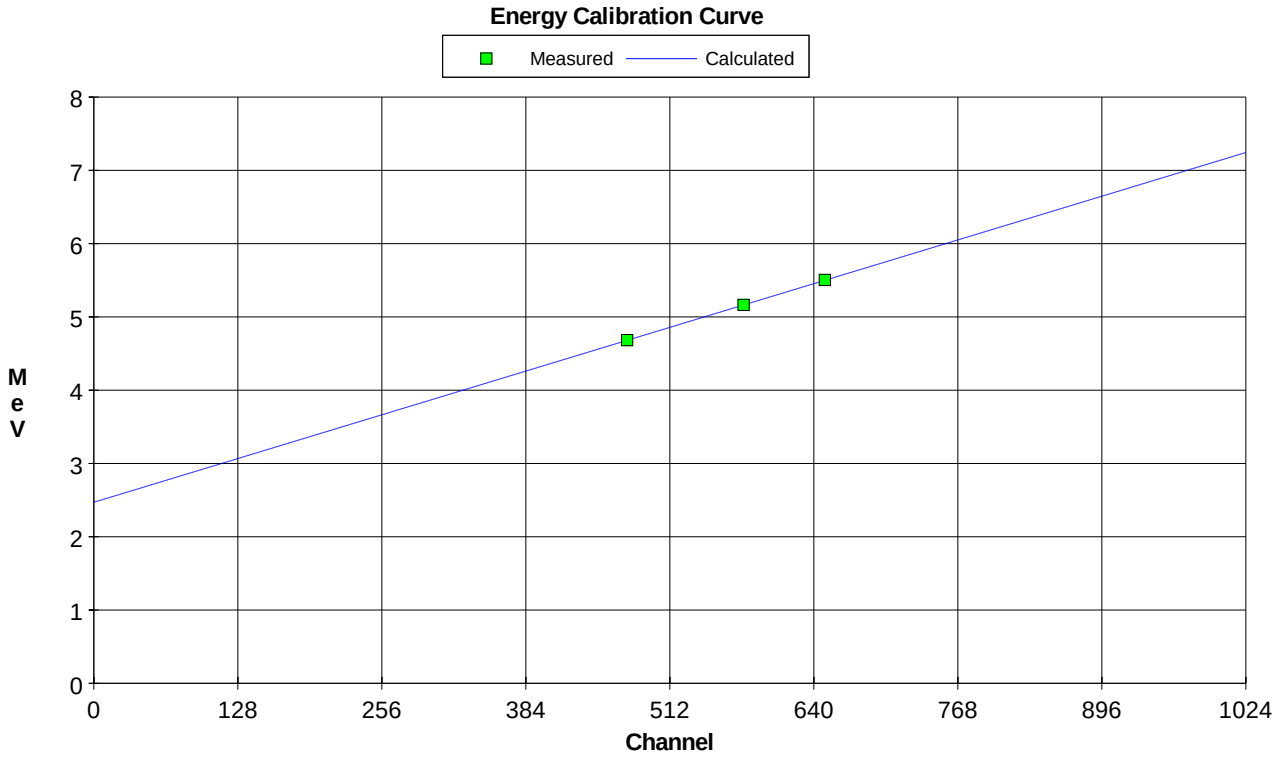
Errors quoted at 1.000 sigma

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

Detector DET30

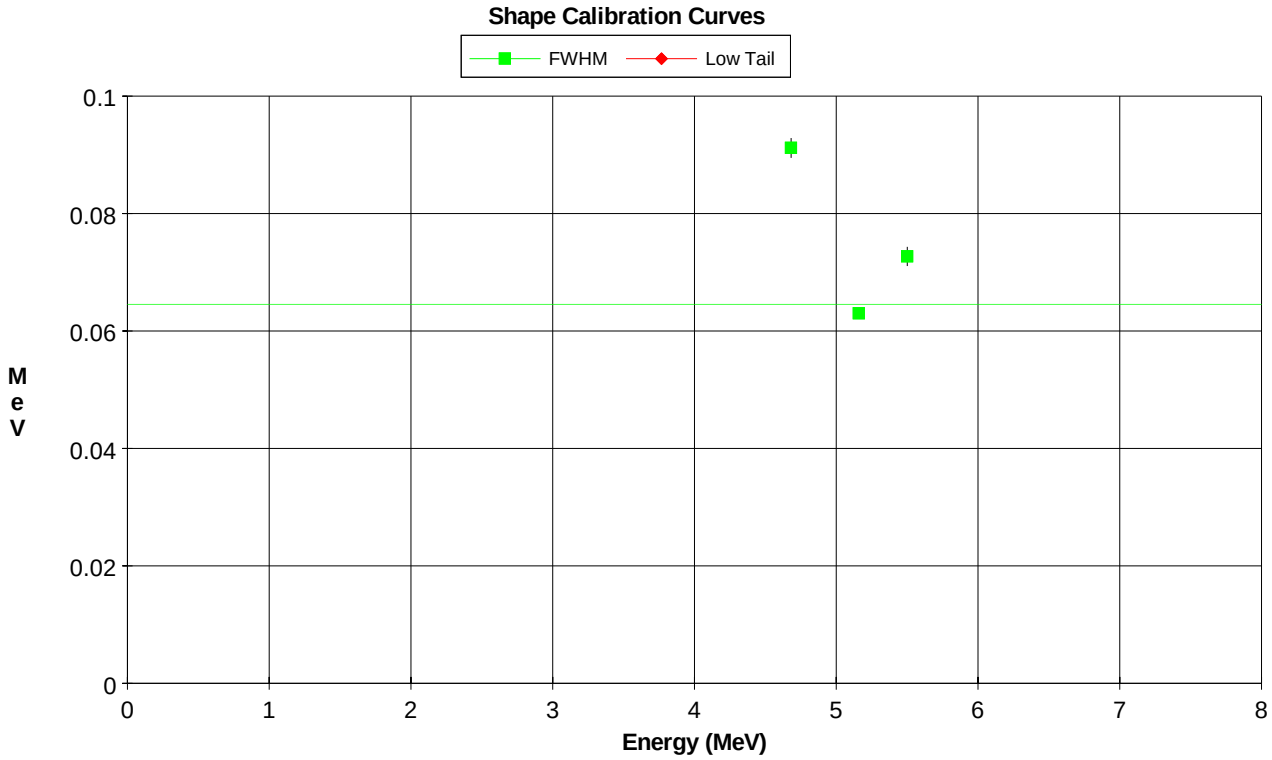


PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET30
Energy = 2.469e+000 MeV + 4.661e-003*Ch
FWHM = 6.447e-002 MeV

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Datasource: DET30
Energy = 2.469e+000 MeV + 4.661e-003*Ch
FWHM = 6.447e-002 MeV

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET31
Sample Title: DET 31 SC 110124
Peak Analysis Performed on: 11/1/2024 11:06:12 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	398-	468	444.69	4649.98	82.73	6.66E+003	81.62	0.00E+000
2	507-	568	545.75	5119.59	60.62	6.58E+003	81.12	0.00E+000
3	583-	646	617.34	5452.30	60.90	5.59E+003	74.73	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 31 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	9.758E+002	1.405E+001
PU-239	0.999	5160.00*	100.00	9.609E+002	4.993E+001
AM-241	0.999	5485.70*	99.00	8.238E+002	1.409E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:06:12 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

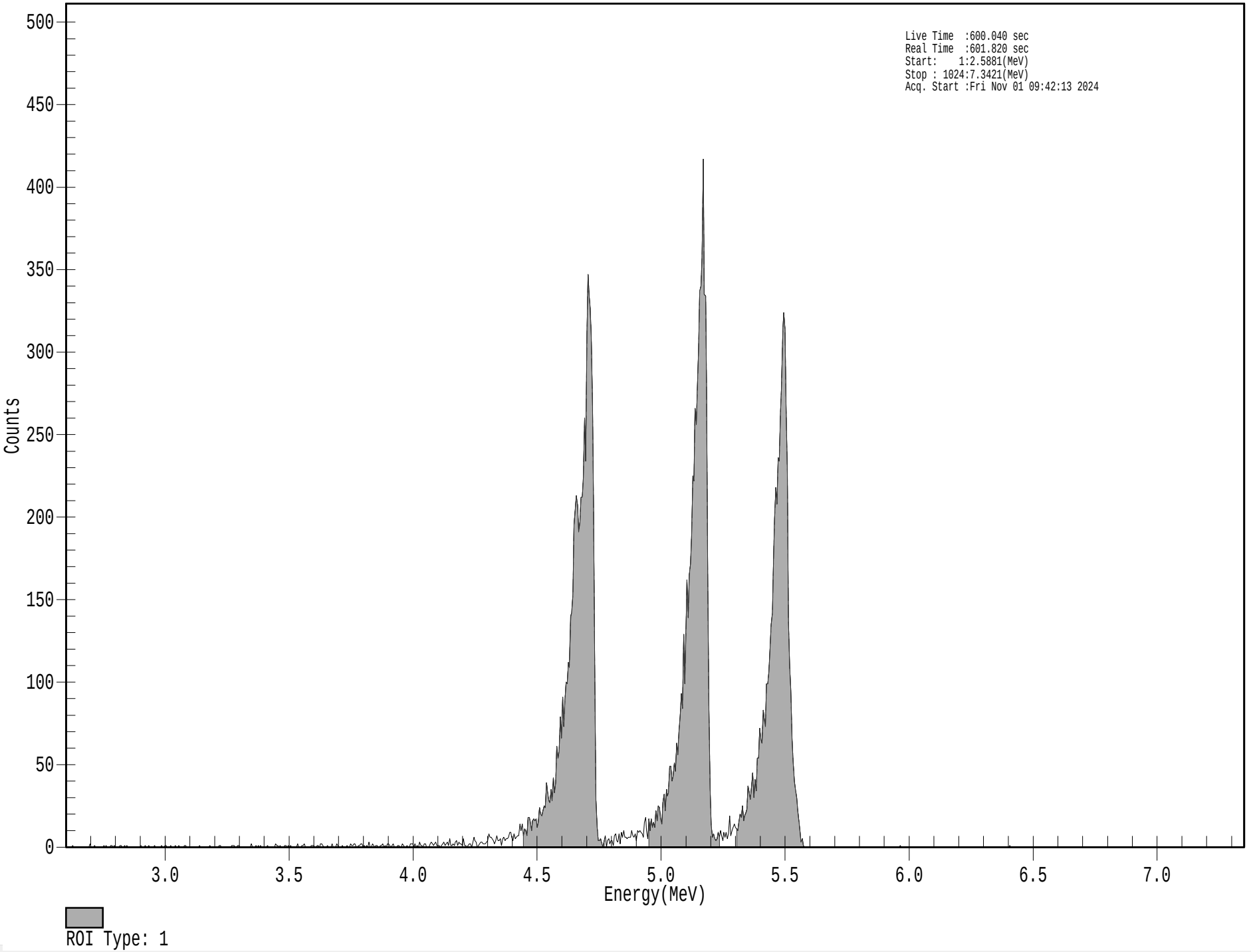
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

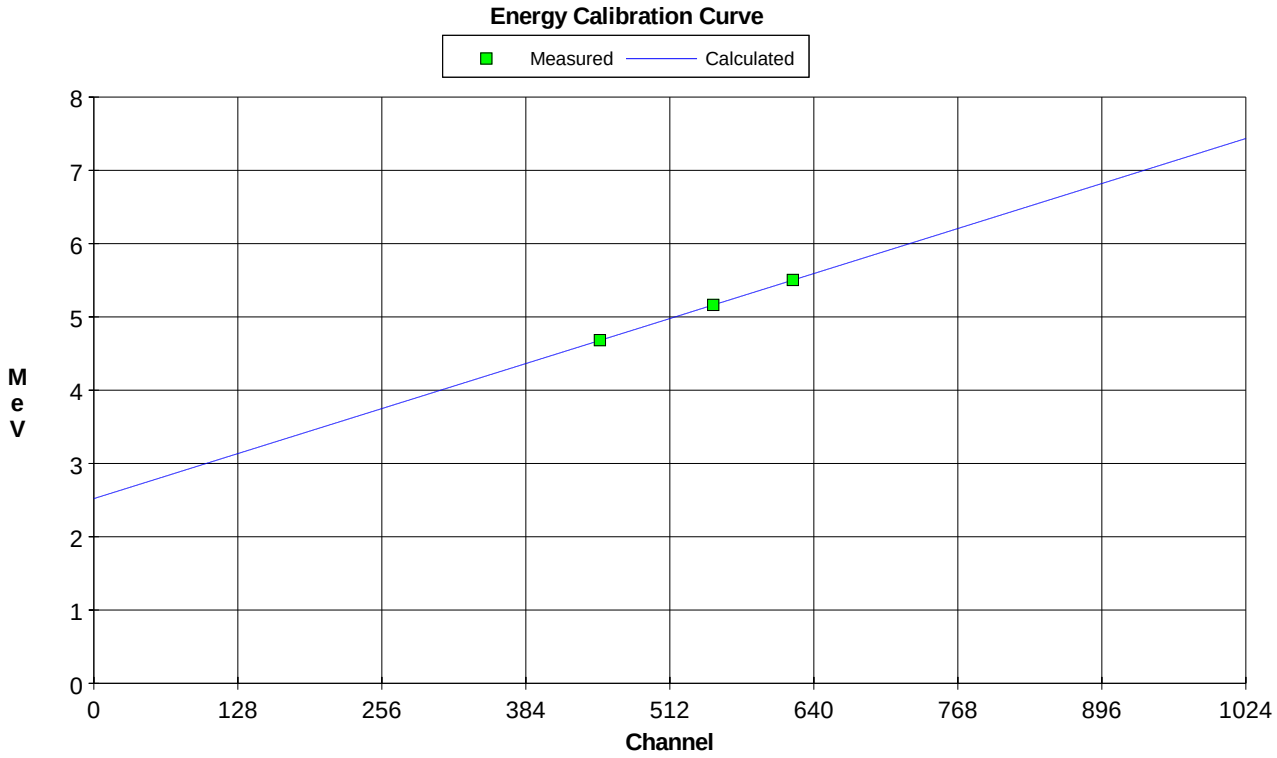
Errors quoted at 1.000 sigma

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

Detector DET31

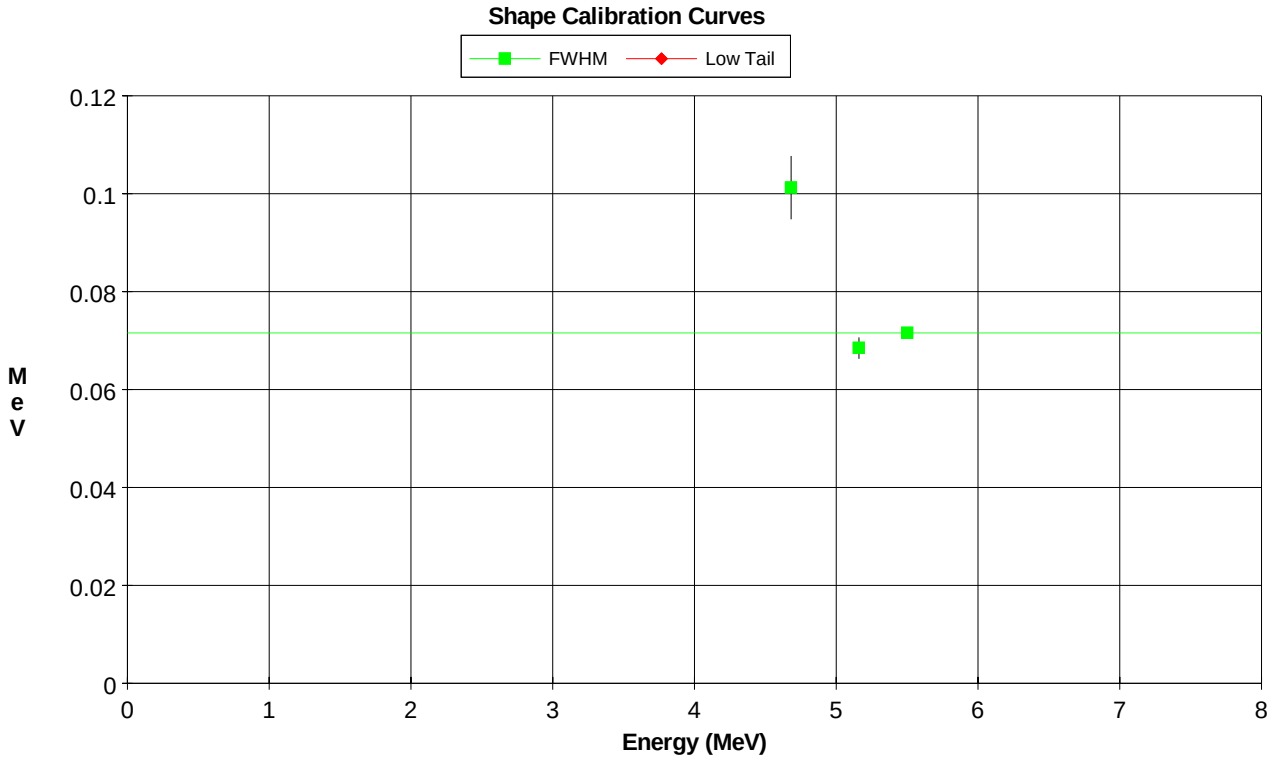


PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET31
Energy = 2.518e+000 MeV + 4.799e-003*Ch
FWHM = 7.157e-002 MeV

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Datasource: DET31
Energy = 2.518e+000 MeV + 4.799e-003*Ch
FWHM = 7.157e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET32
Sample Title: DET 32 SC 110124
Peak Analysis Performed on: 11/1/2024 11:06:27 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	401-	470	445.90	4645.26	72.48	6.27E+003	79.20	0.00E+000
2	508-	569	547.59	5122.14	60.57	6.56E+003	81.00	0.00E+000
3	584-	646	619.53	5459.49	66.28	5.80E+003	76.12	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 32 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.033E+003	1.493E+001
PU-239	0.999	5160.00*	100.00	1.077E+003	5.589E+001
AM-241	1.000	5485.70*	99.00	9.609E+002	1.603E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:06:27 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

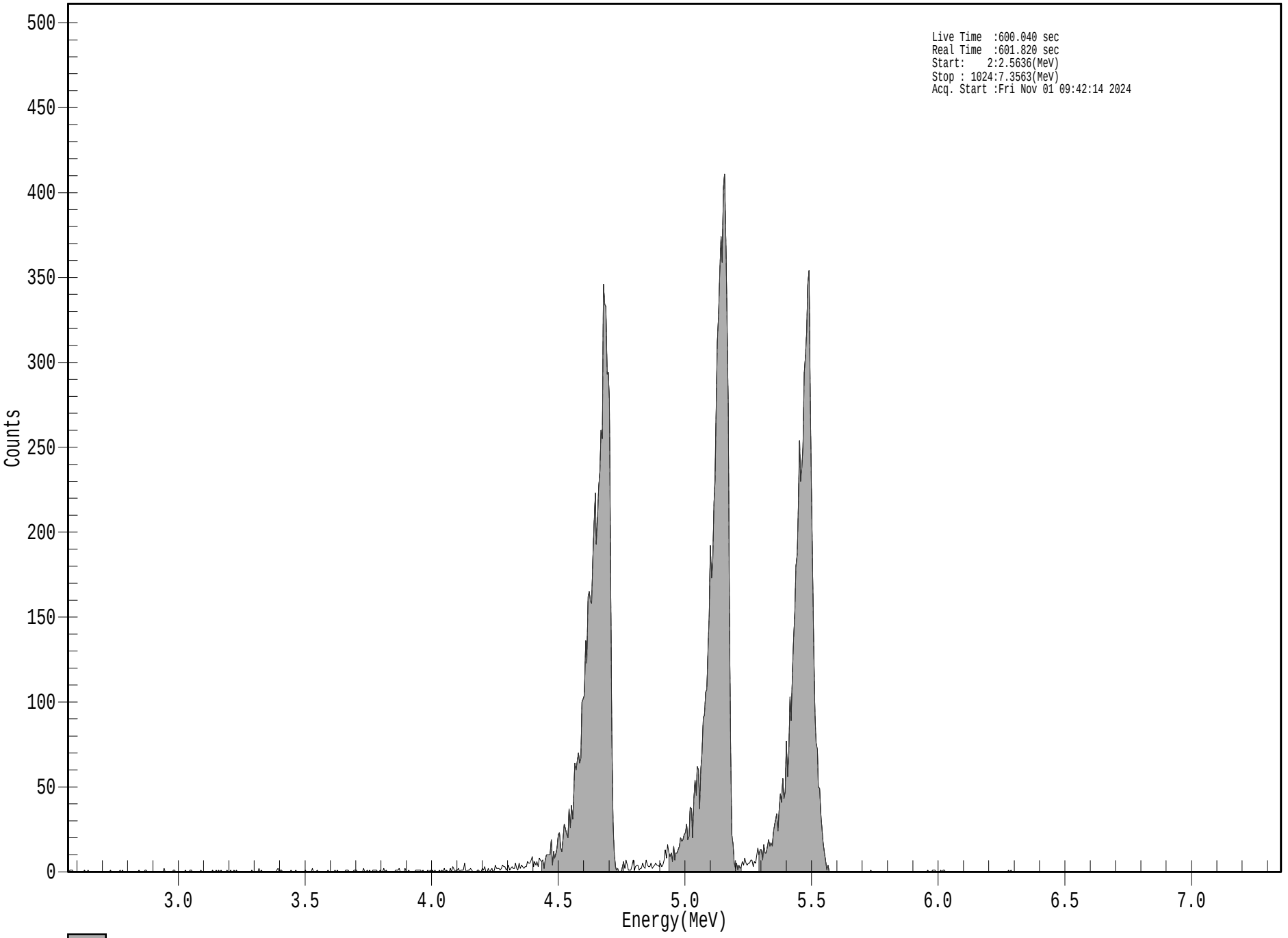
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

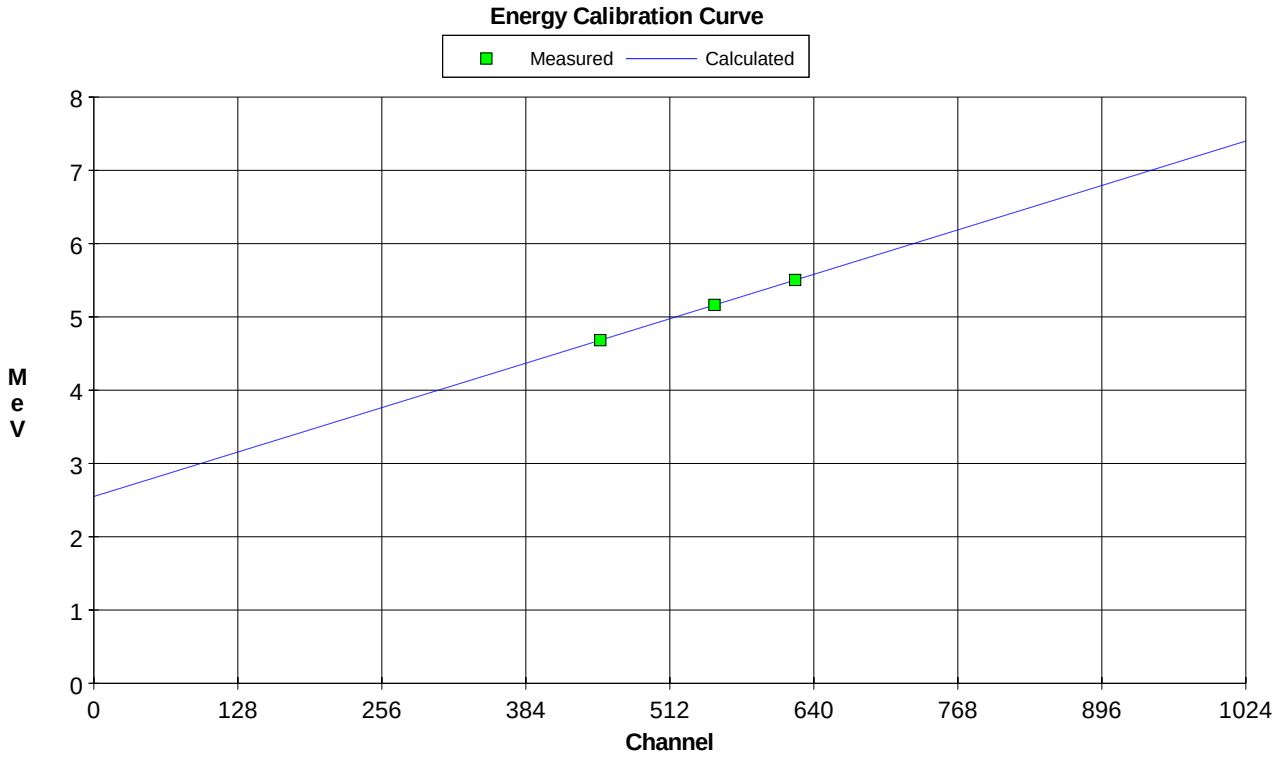
Errors quoted at 1.000 sigma

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Detector DET32

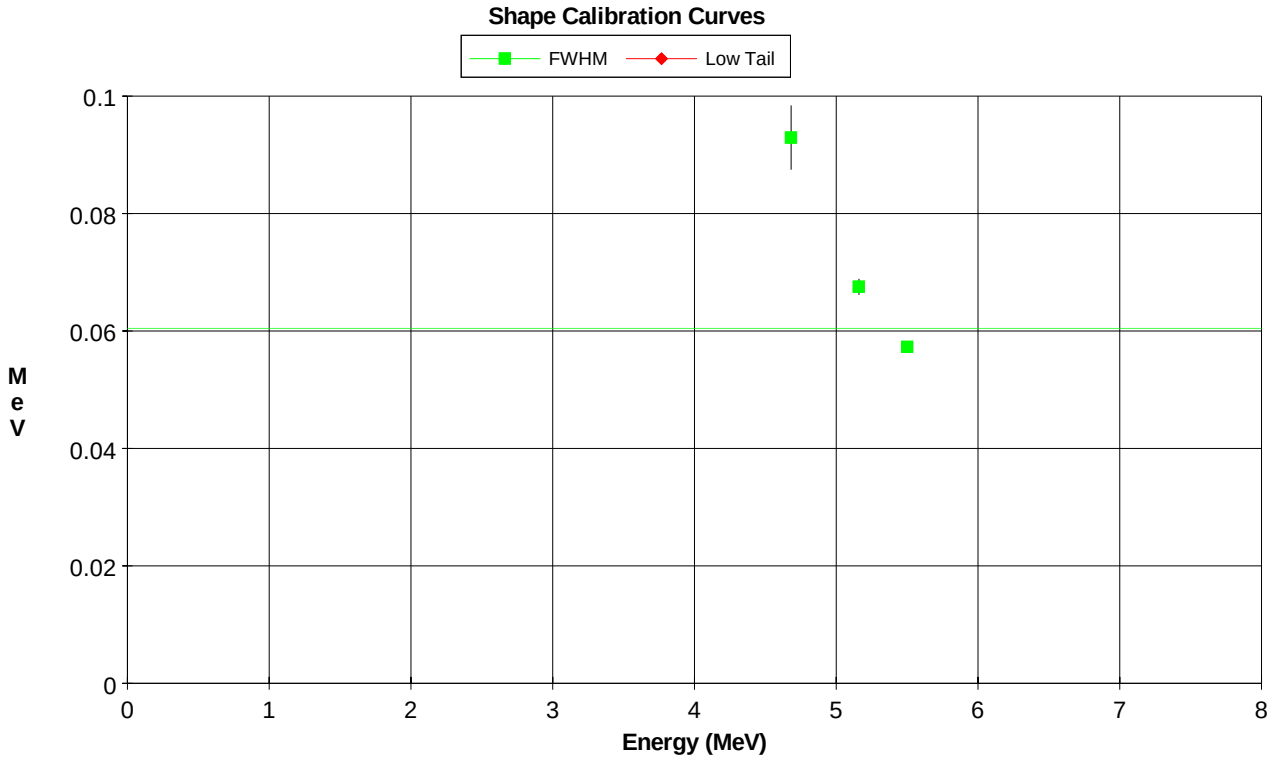


PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET32
Energy = 2.548e+000 MeV + 4.737e-003*Ch
FWHM = 6.043e-002 MeV

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Datasource: DET32
Energy = 2.548e+000 MeV + 4.737e-003*Ch
FWHM = 6.043e-002 MeV

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_1A
Sample Title: DET 33 SC 110124
Peak Analysis Performed on: 11/1/2024 11:52:22 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	338-	396	379.11	4666.04	50.34	5.296E+03	72.77	0.000E+00
2	427-	479	463.55	5139.74	55.99	5.367E+03	73.26	0.000E+00
3	491-	543	523.11	5473.85	51.41	4.641E+03	68.12	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 33 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.0385E+03	1.6287E+01
PU-239	1.000	5160.00*	100.00	1.0492E+03	5.4866E+01
AM-241	1.000	5485.70*	99.00	9.1647E+02	1.6620E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:52:22 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

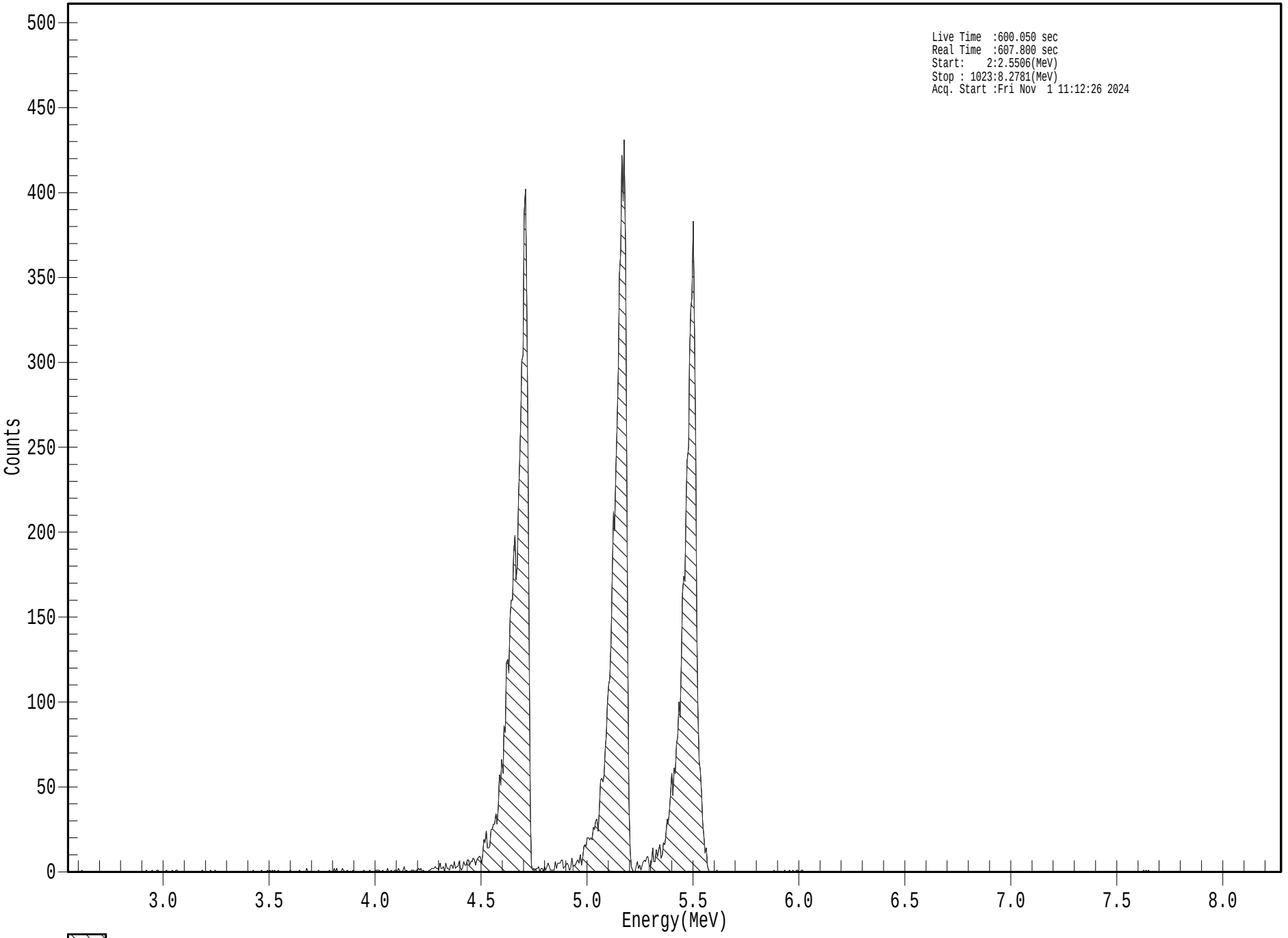
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

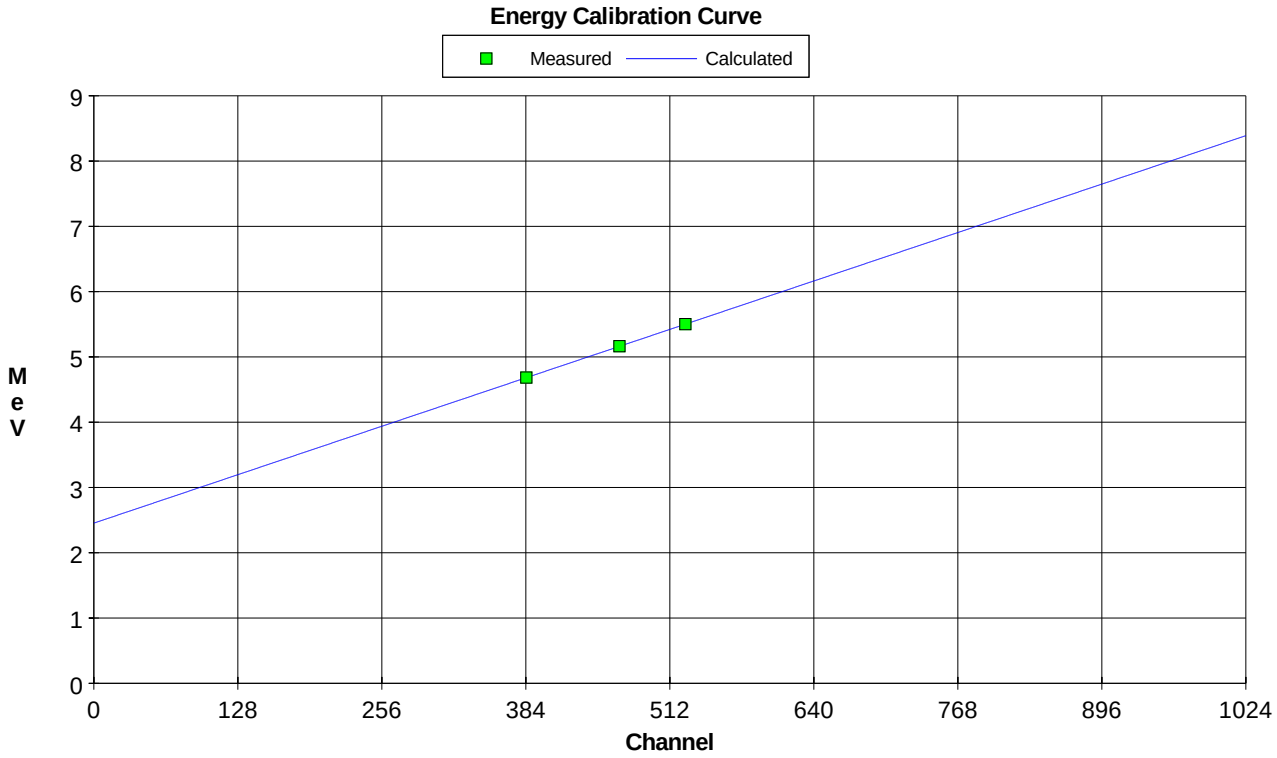
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

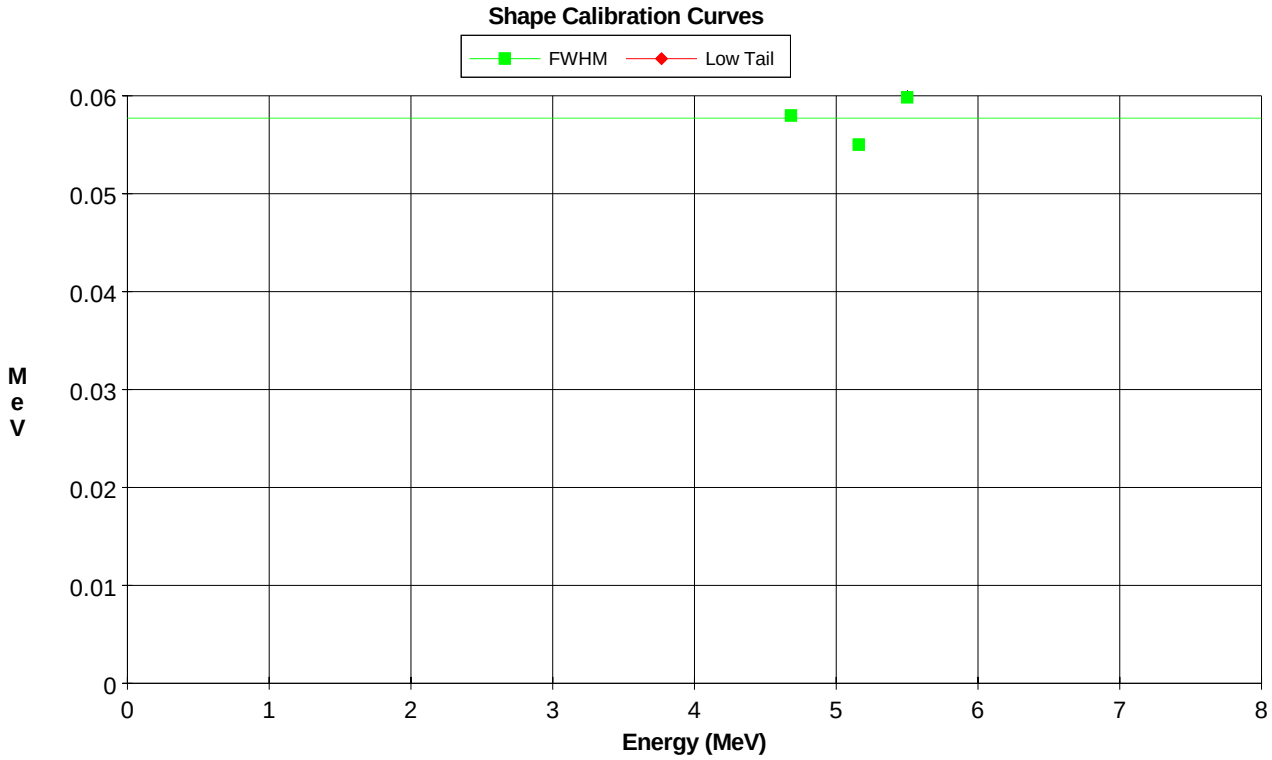
Errors quoted at 1.000 sigma

Detector A_4_1A





Datasource: A_4_1A
Energy = 2.452e+00 MeV +5.796e-03*Ch
FWHM = 5.768e-02 MeV



Datasource: A_4_1A
Energy = 2.452e+00 MeV +5.796e-03*Ch
FWHM = 5.768e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_1B
Sample Title: DET 34 SC 110124
Peak Analysis Performed on: 11/1/2024 12:05:28 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	397	380.52	4666.11	53.69	5.081E+03	71.28	0.000E+00
2	429-	481	465.05	5137.15	60.46	4.555E+03	67.49	0.000E+00
3	493-	545	524.77	5469.95	59.35	4.458E+03	66.77	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 34 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.5932E+02	1.3942E+01
PU-239	1.000	5160.00*	100.00	8.5743E+02	4.4758E+01
AM-241	1.000	5485.70*	99.00	8.4764E+02	1.4558E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:05:28 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

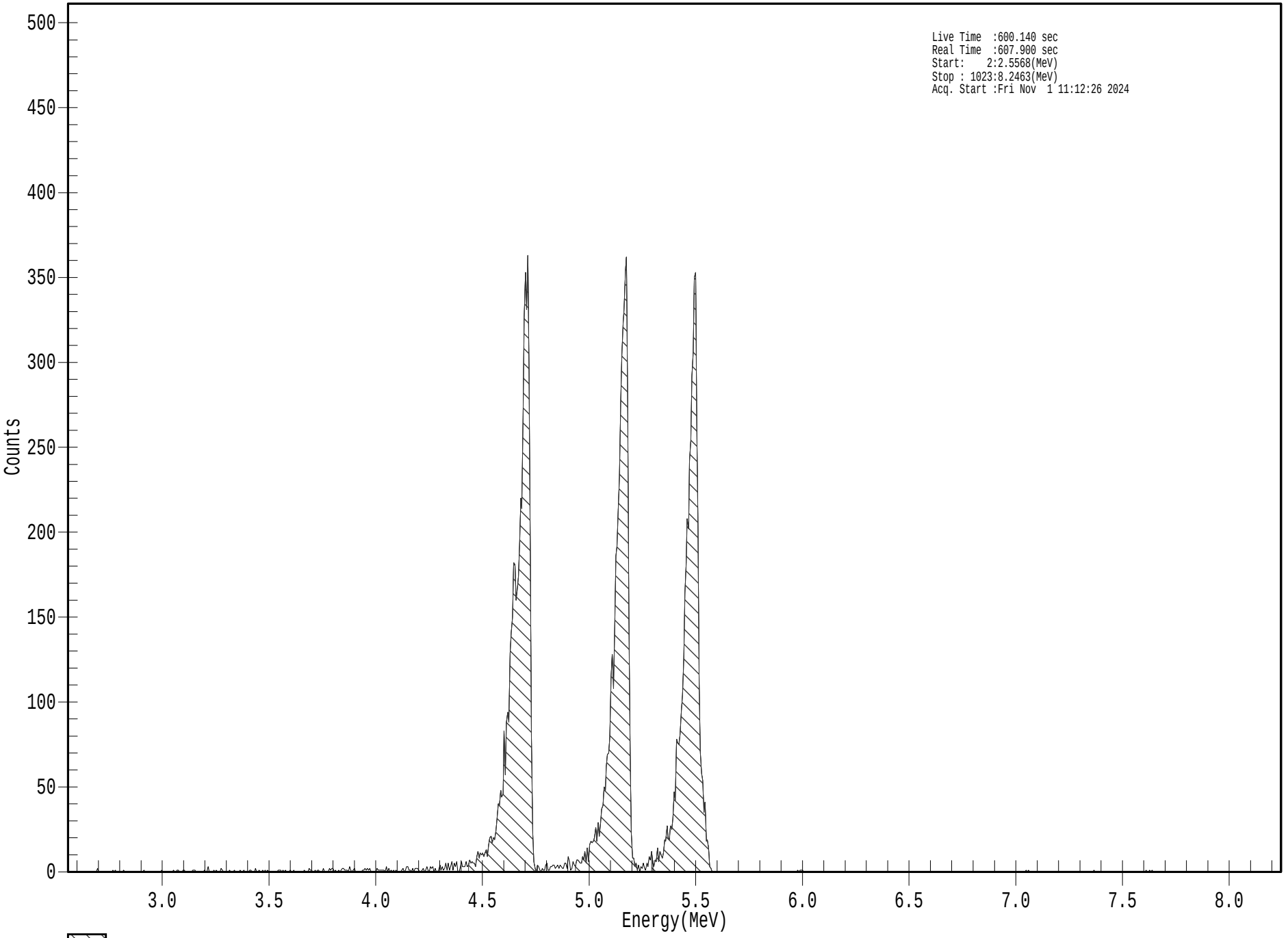
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

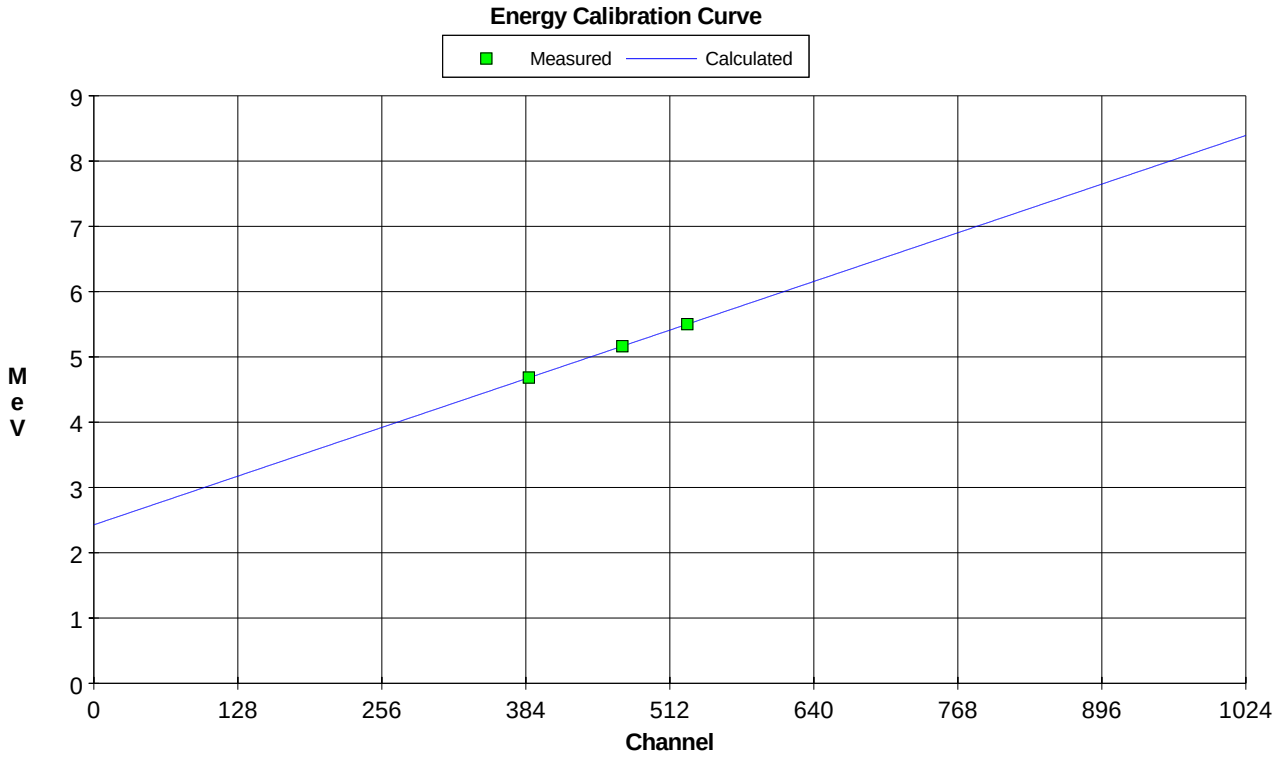
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

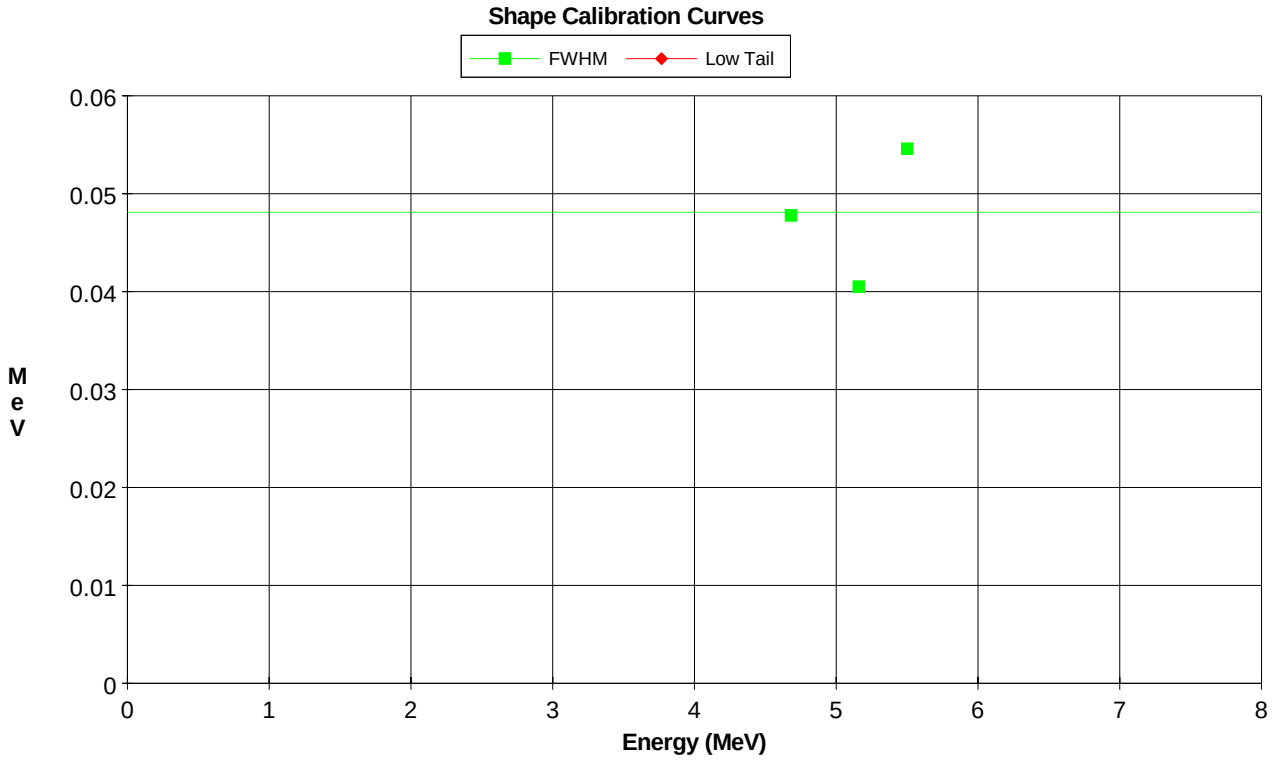
Errors quoted at 1.000 sigma

Detector A_4_1B





Datasource: A_4_1B
Energy = 2.426e+00 MeV +5.825e-03*Ch
FWHM = 4.810e-02 MeV



Datasource: A_4_1B
Energy = 2.426e+00 MeV +5.825e-03*Ch
FWHM = 4.810e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_2A
Sample Title: DET 35 SC 110124
Peak Analysis Performed on: 11/1/2024 12:05:44 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	338-	396	378.74	4661.66	54.49	4.710E+03	68.63	0.000E+00
2	428-	478	463.11	5138.45	61.02	5.164E+03	71.86	0.000E+00
3	491-	542	522.19	5472.28	47.25	4.310E+03	65.65	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 35 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.4258E+02	1.5044E+01
PU-239	1.000	5160.00*	100.00	1.0303E+03	5.3805E+01
AM-241	1.000	5485.70*	99.00	8.6863E+02	1.5796E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:05:44 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

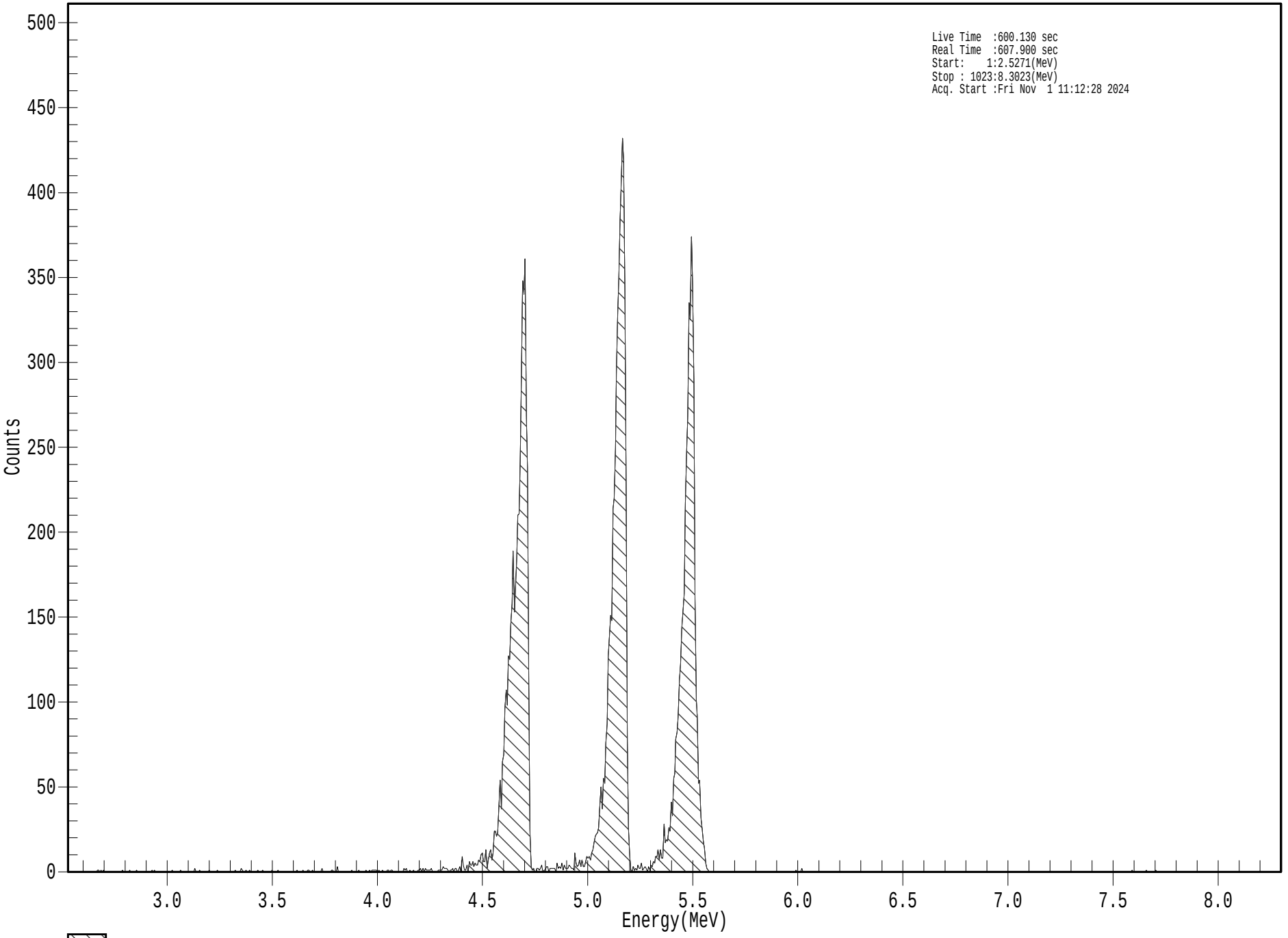
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

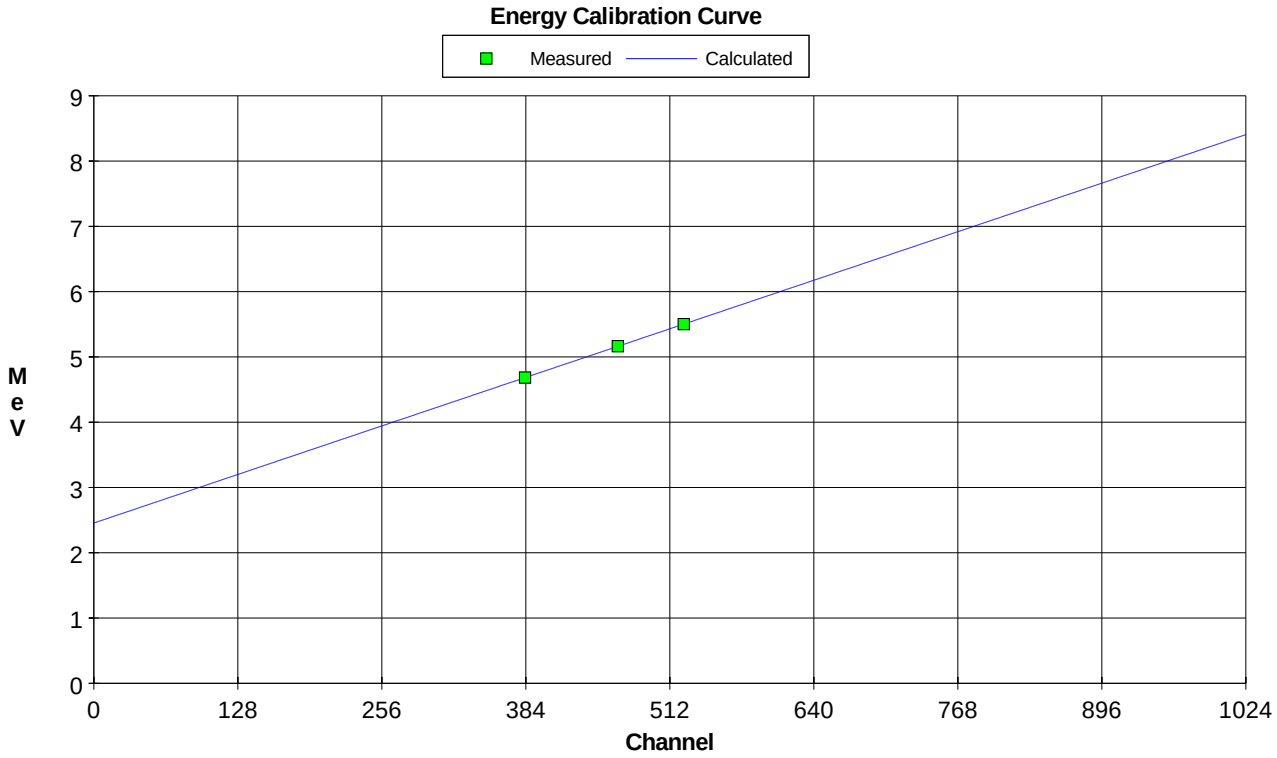
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

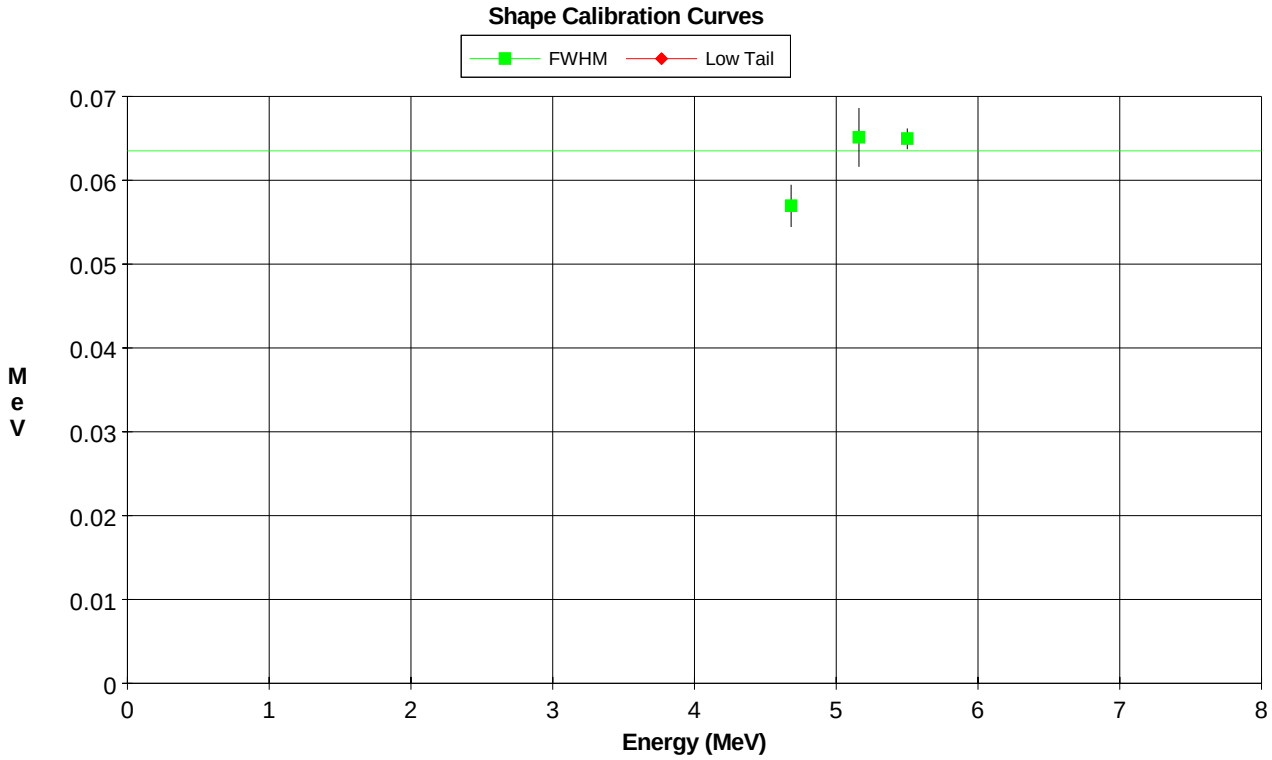
Errors quoted at 1.000 sigma

Detector A_4_2A





Datasource: A_4_2A
Energy = 2.453e+00 MeV +5.810e-03*Ch
FWHM = 6.350e-02 MeV



Datasource: A_4_2A
Energy = 2.453e+00 MeV +5.810e-03*Ch
FWHM = 6.350e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_2B
Sample Title: DET 36 SC 110124
Peak Analysis Performed on: 11/1/2024 12:06:00 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	335-	393	377.11	4669.32	42.82	5.237E+03	72.37	0.000E+00
2	425-	476	461.40	5141.00	59.06	5.189E+03	72.03	0.000E+00
3	489-	541	520.66	5472.67	50.83	4.636E+03	68.09	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 36 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.0514E+03	1.5642E+01
PU-239	1.000	5160.00*	100.00	1.0386E+03	5.4108E+01
AM-241	1.000	5485.70*	99.00	9.3729E+02	1.6298E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:06:00 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

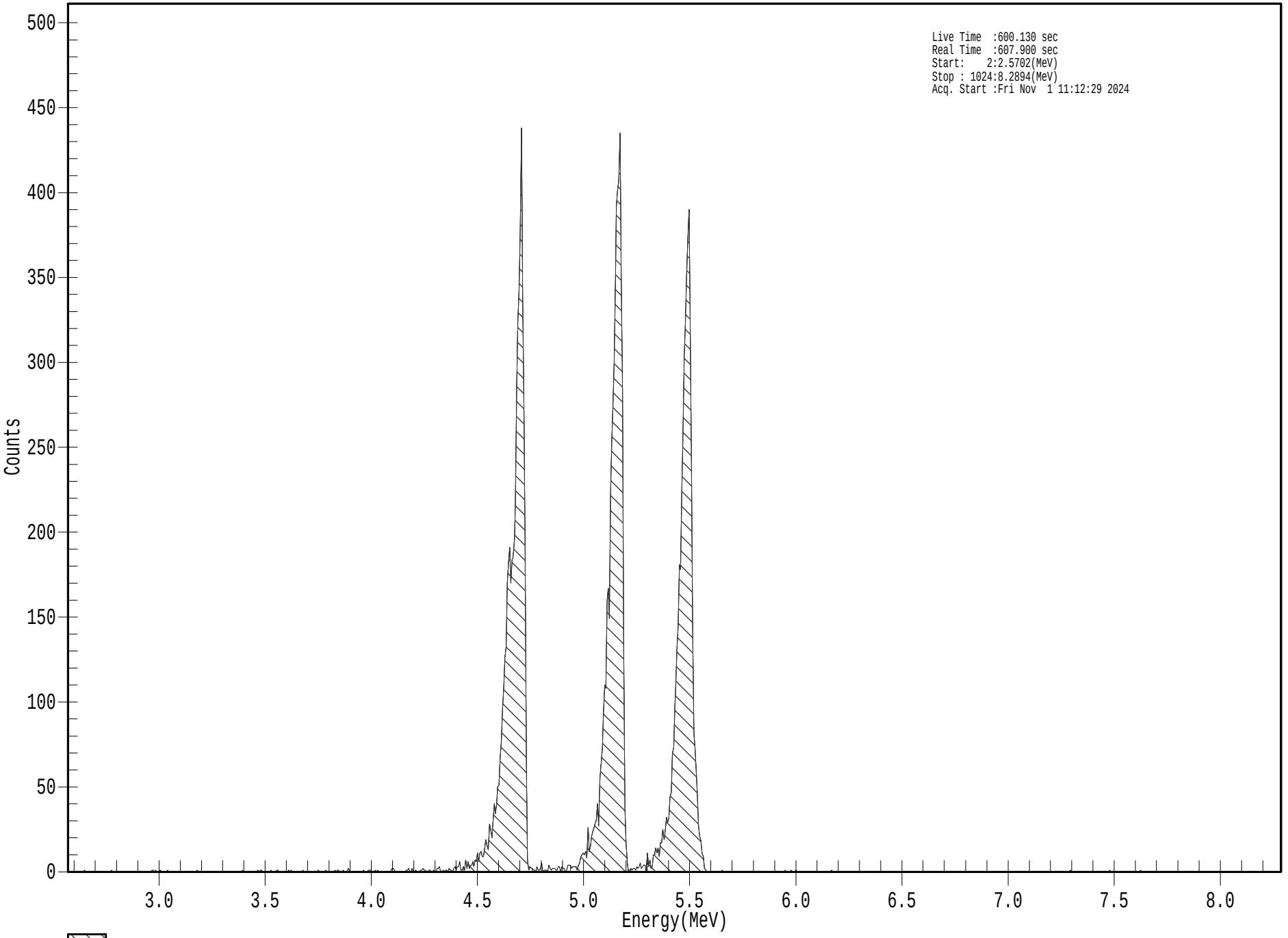
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

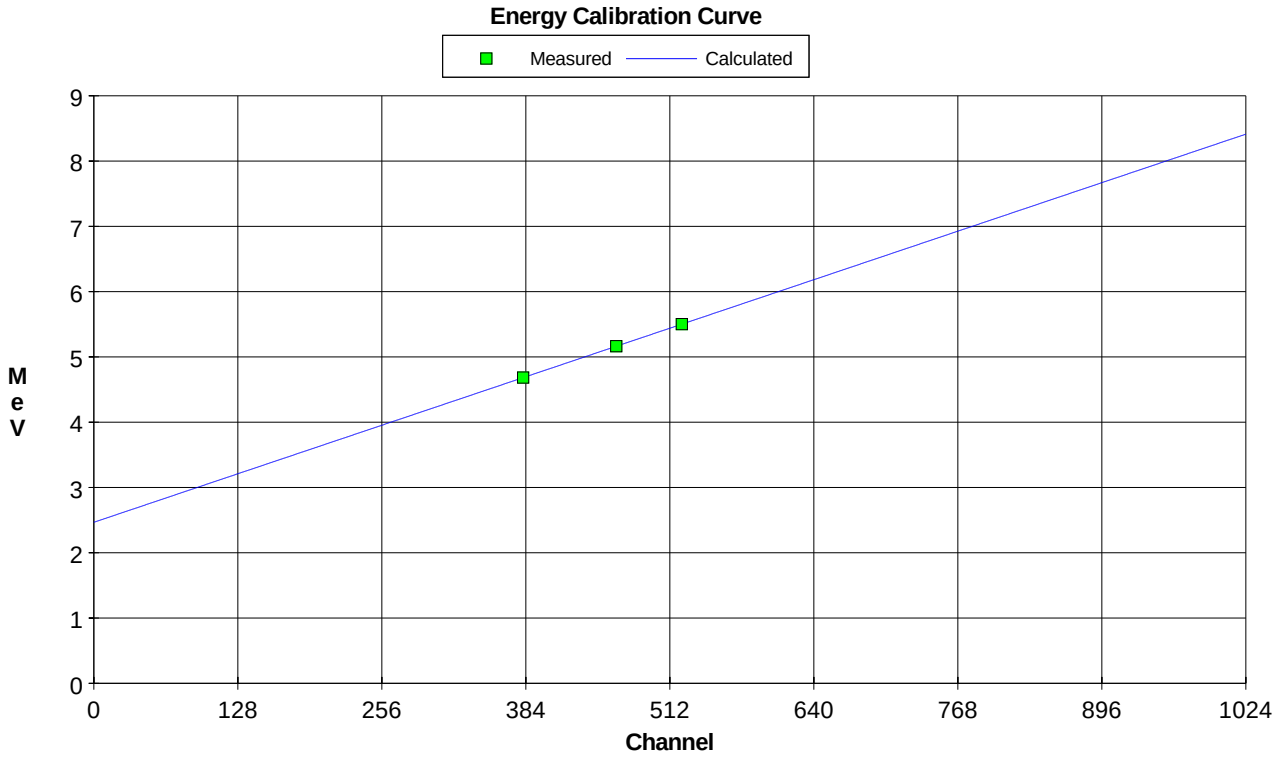
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

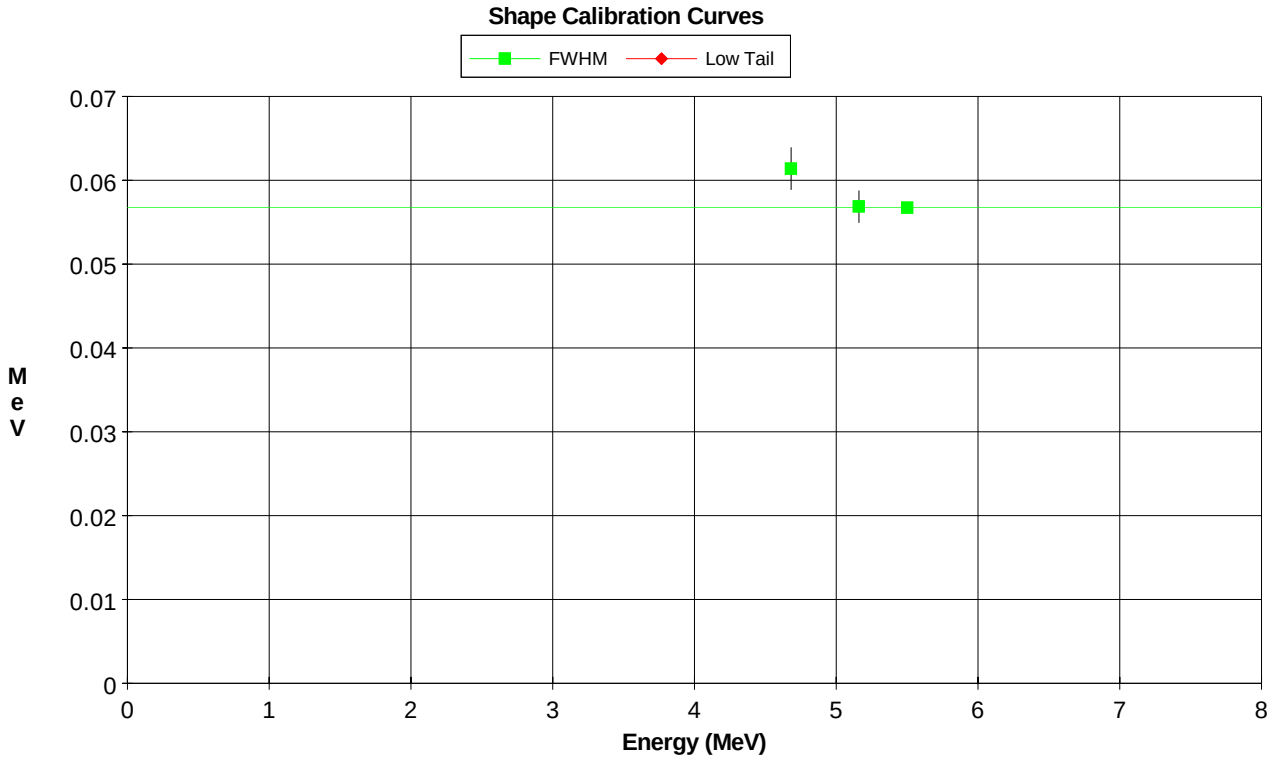
Errors quoted at 1.000 sigma

Detector A_4_2B





Datasource: A_4_2B
Energy = 2.464e+00 MeV +5.806e-03*Ch
FWHM = 5.672e-02 MeV



Datasource: A_4_2B
Energy = 2.464e+00 MeV +5.806e-03*Ch
FWHM = 5.672e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_3A
Sample Title: DET 37 SC 110124
Peak Analysis Performed on: 11/1/2024 12:06:15 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	337-	395	376.84	4658.23	54.93	5.392E+03	73.43	0.000E+00
2	426-	477	461.29	5133.94	52.91	5.193E+03	72.06	0.000E+00
3	490-	541	520.75	5468.94	62.35	4.768E+03	69.05	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 37 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.1296E+03	1.5809E+01
PU-239	1.000	5160.00*	100.00	1.0847E+03	5.6297E+01
AM-241	1.000	5485.70*	99.00	1.0060E+03	1.6723E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:06:15 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

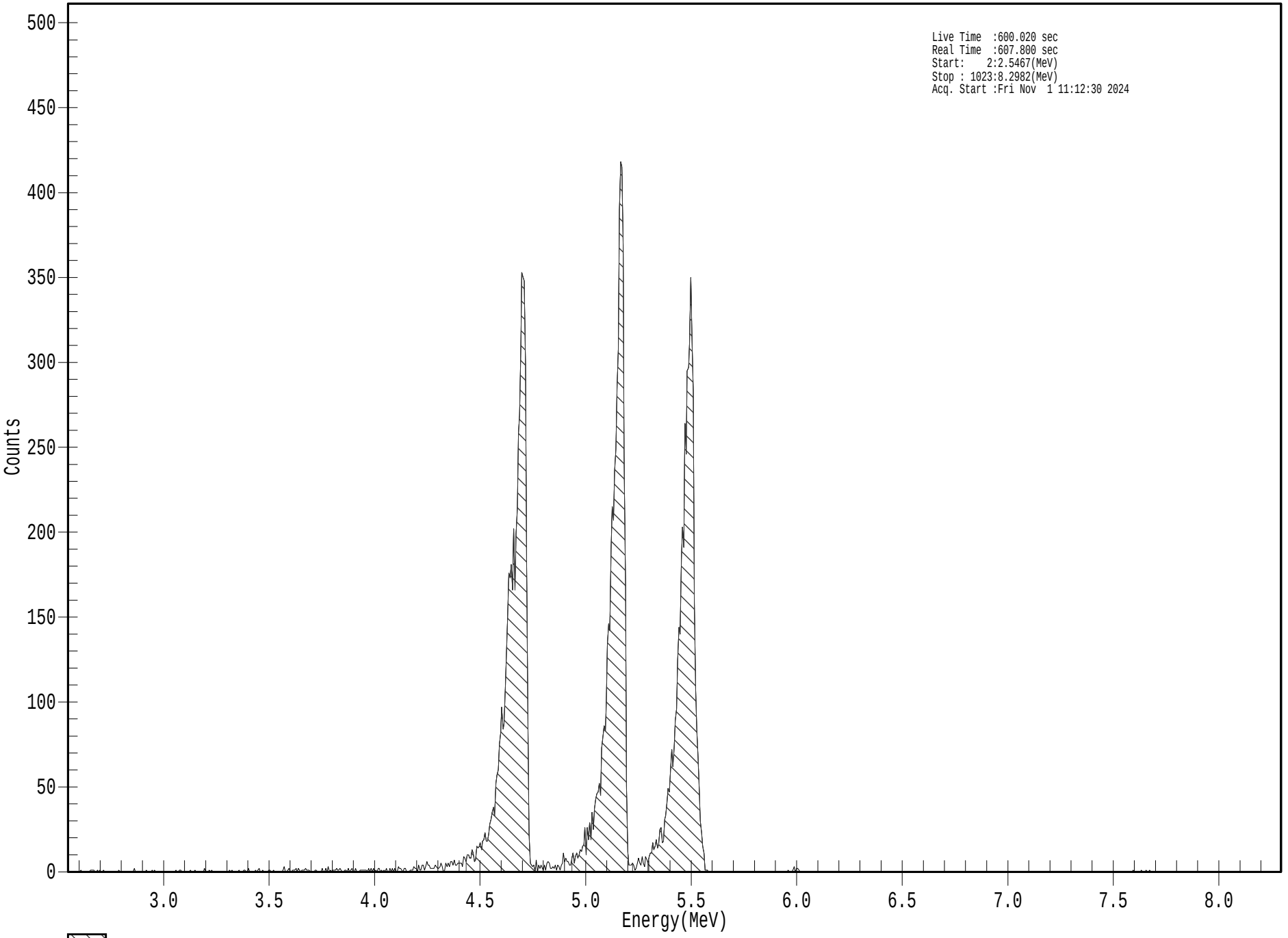
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

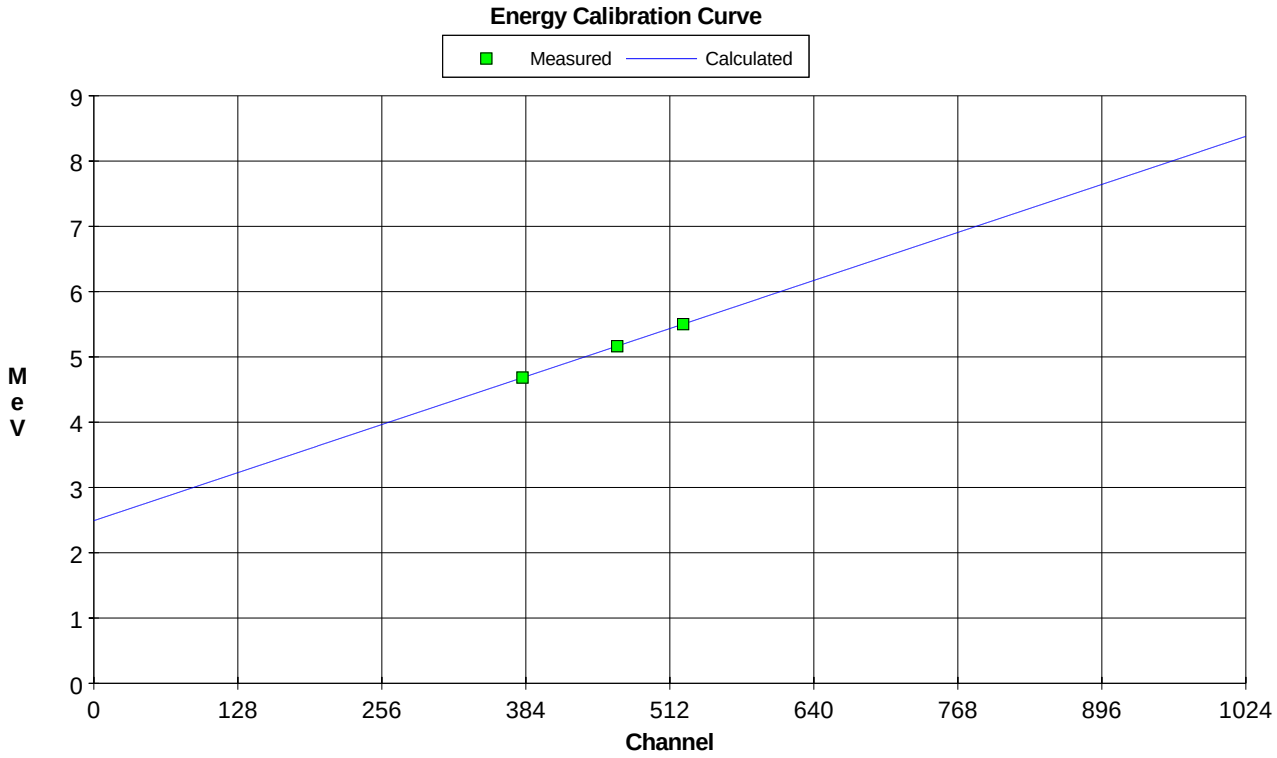
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

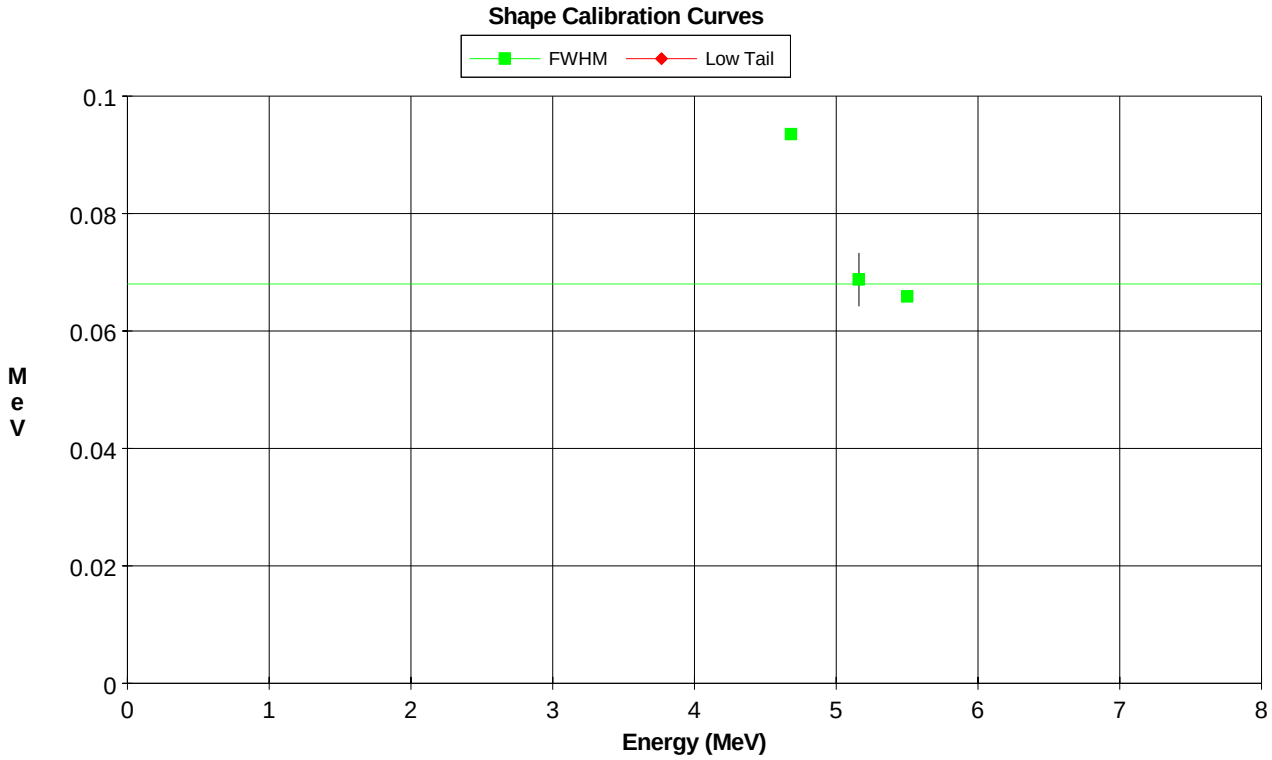
Errors quoted at 1.000 sigma

Detector A_4_3A





Datasource: A_4_3A
Energy = 2.489e+00 MeV +5.749e-03*Ch
FWHM = 6.797e-02 MeV



Datasource: A_4_3A
Energy = 2.489e+00 MeV +5.749e-03*Ch
FWHM = 6.797e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_3B
Sample Title: DET 38 SC 110124
Peak Analysis Performed on: 11/1/2024 12:06:31 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	341-	398	380.41	4659.20	53.27	5.069E+03	71.20	0.000E+00
2	429-	480	464.82	5138.60	58.96	4.801E+03	69.29	0.000E+00
3	492-	543	524.39	5476.92	59.90	4.507E+03	67.13	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 38 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.0474E+03	1.5057E+01
PU-239	1.000	5160.00*	100.00	9.8903E+02	5.1474E+01
AM-241	1.000	5485.70*	99.00	9.3784E+02	1.5902E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:06:31 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

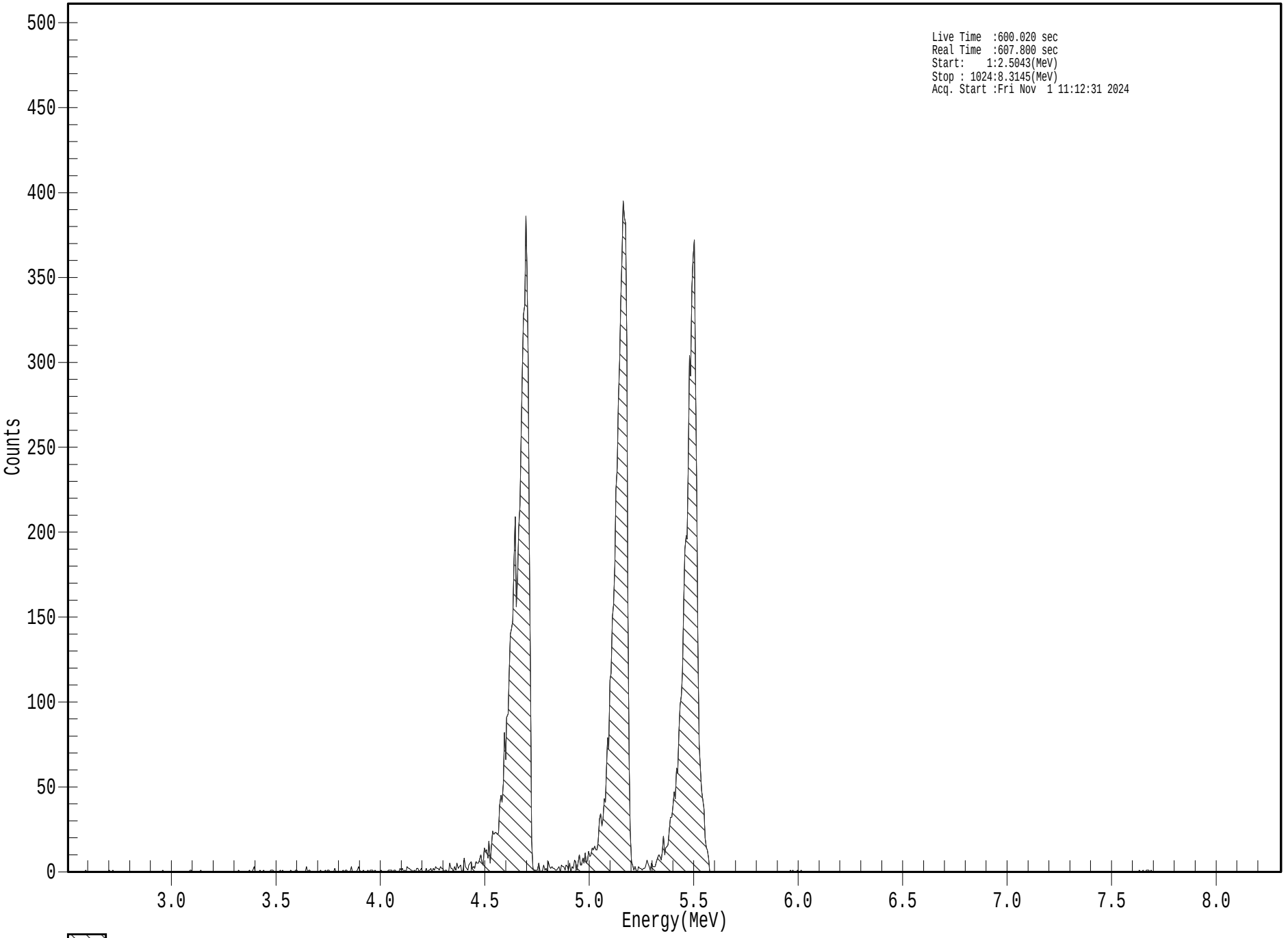
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

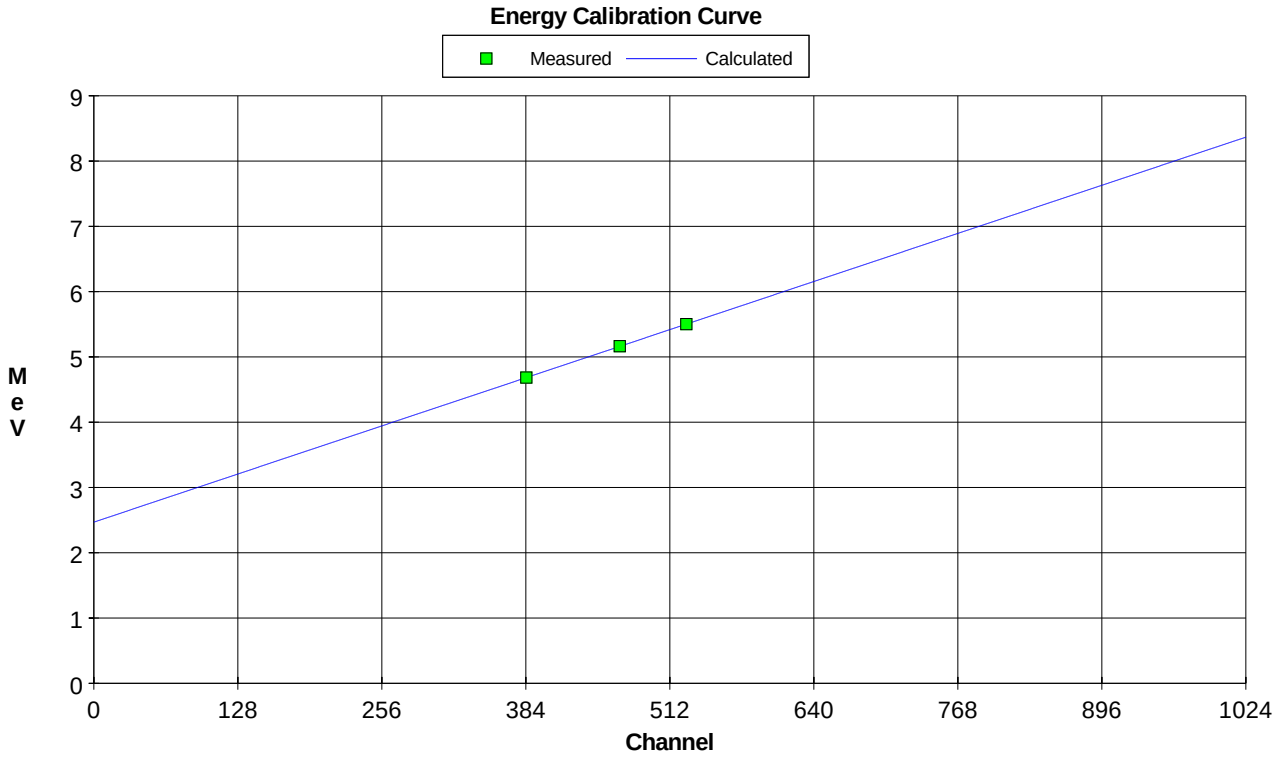
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

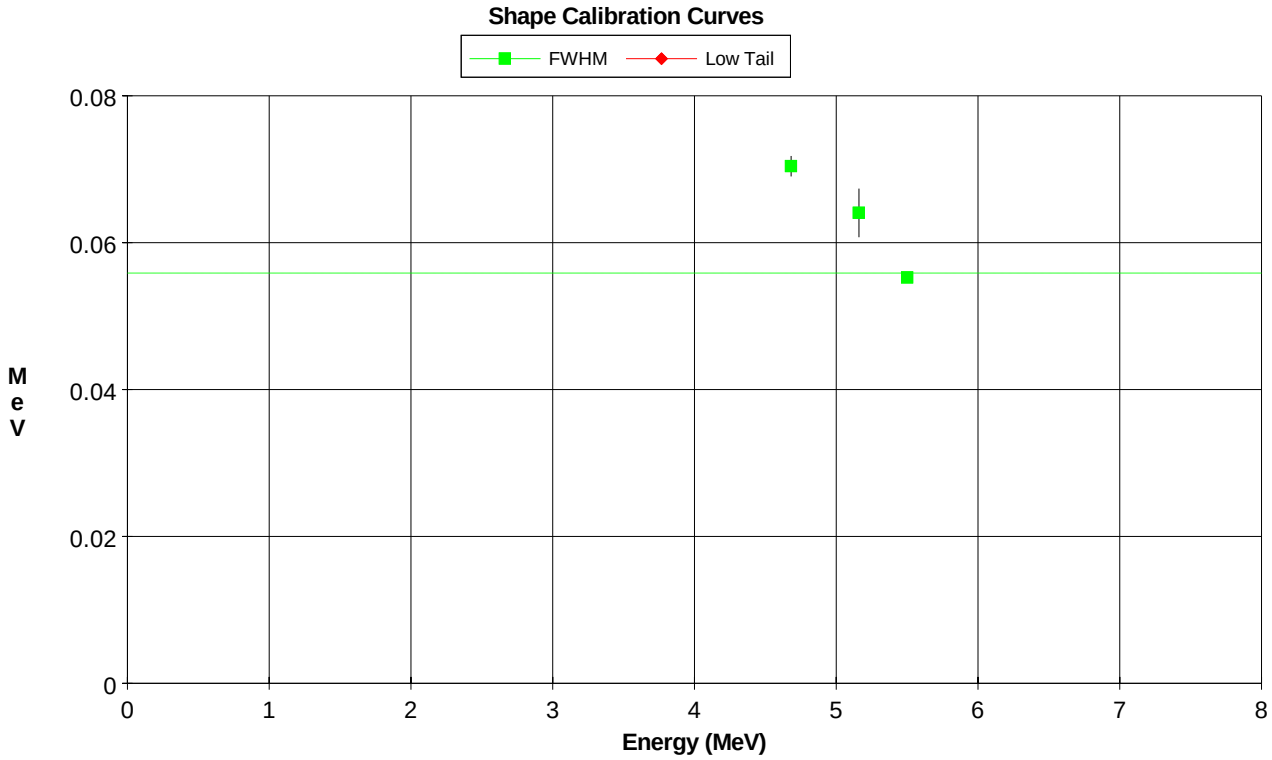
Errors quoted at 1.000 sigma

Detector A_4_3B





Datasource: A_4_3B
Energy = 2.467e+00 MeV +5.759e-03*Ch
FWHM = 5.584e-02 MeV



Datasource: A_4_3B
Energy = 2.467e+00 MeV +5.759e-03*Ch
FWHM = 5.584e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_4A
Sample Title: DET 39 SC 110124
Peak Analysis Performed on: 11/1/2024 12:06:46 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	340-	399	381.76	4662.92	66.34	5.256E+03	72.50	0.000E+00
2	431-	483	466.29	5133.73	61.12	5.328E+03	72.99	0.000E+00
3	495-	547	526.23	5467.55	56.87	4.562E+03	67.54	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 39 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.9253E+02	1.5611E+01
PU-239	1.000	5160.00*	100.00	1.0031E+03	5.2467E+01
AM-241	1.000	5485.70*	99.00	8.6757E+02	1.5822E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:06:46 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

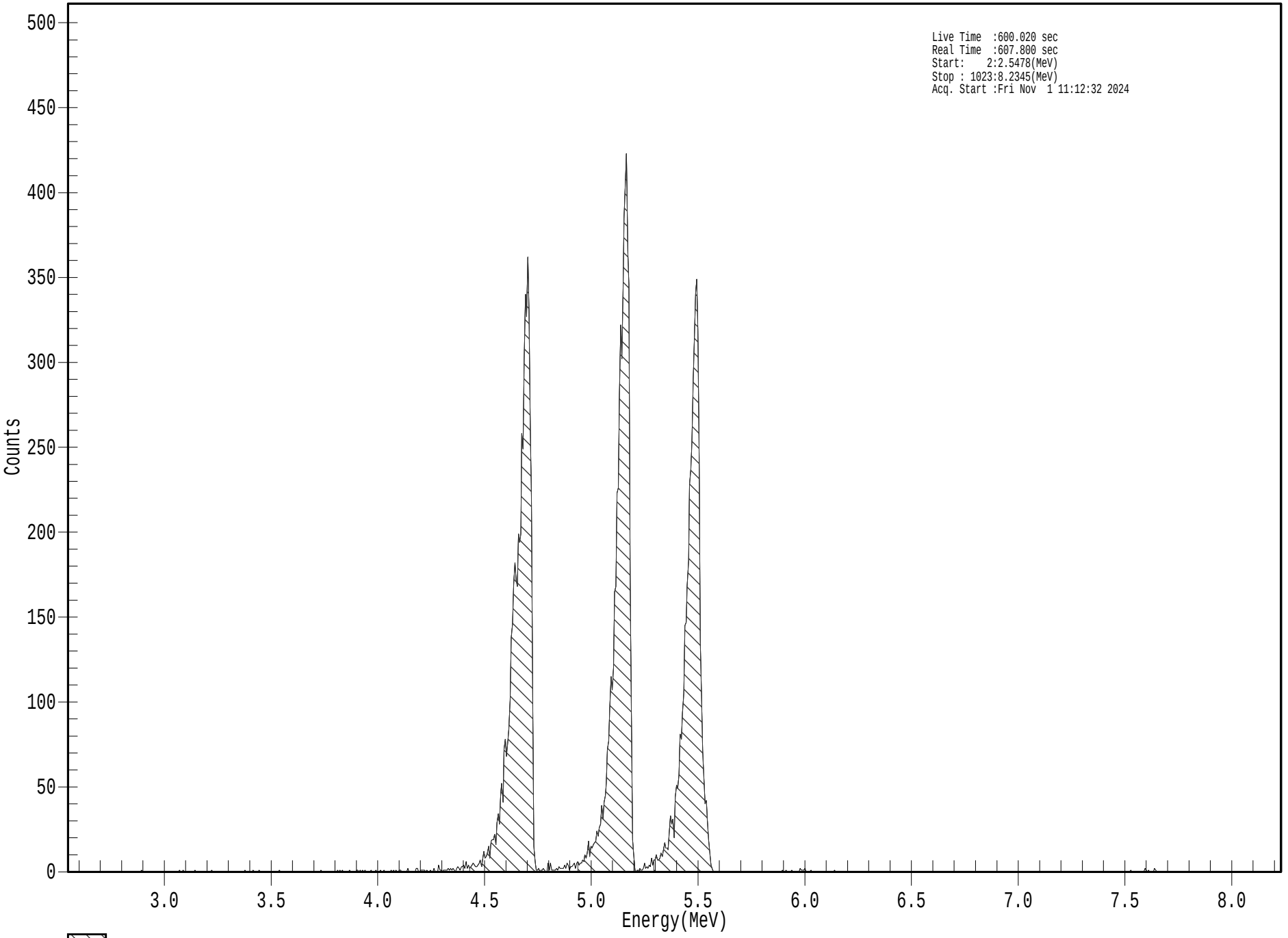
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

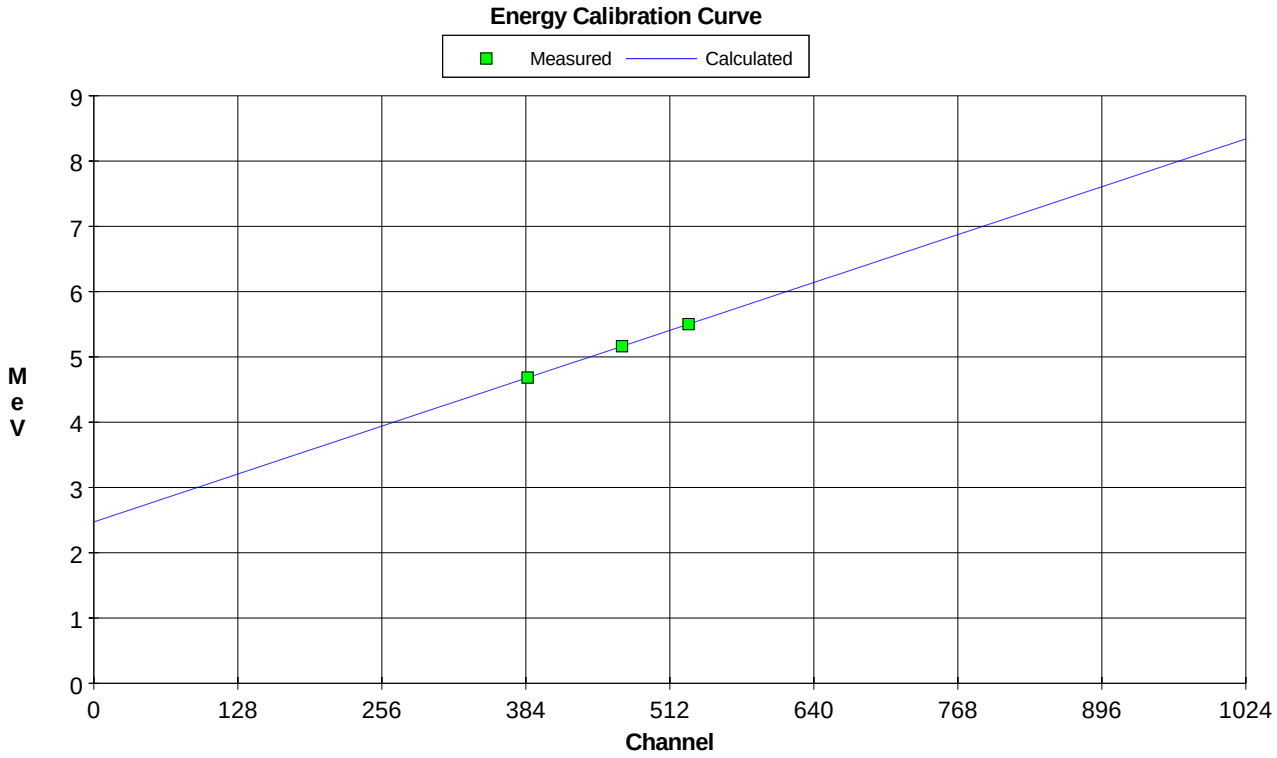
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

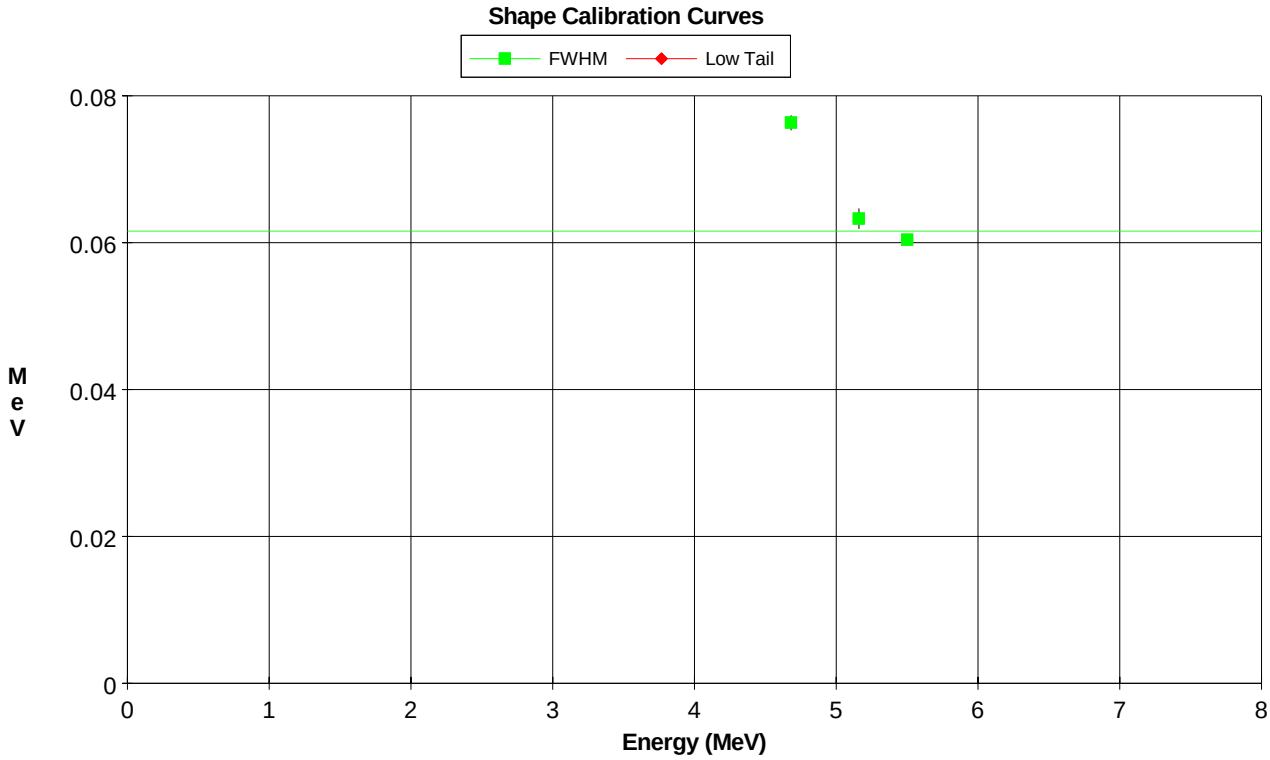
Errors quoted at 1.000 sigma

Detector A_4_4A





Datasource: A_4_4A
Energy = 2.470e+00 MeV +5.730e-03*Ch
FWHM = 6.155e-02 MeV



Datasource: A_4_4A
Energy = 2.470e+00 MeV +5.730e-03*Ch
FWHM = 6.155e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_4B
Sample Title: DET 40 SC 110124
Peak Analysis Performed on: 11/1/2024 12:07:02 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	340-	398	379.79	4655.54	71.90	5.238E+03	72.37	0.000E+00
2	430-	481	464.39	5132.39	59.41	5.192E+03	72.06	0.000E+00
3	493-	545	523.66	5466.45	51.30	4.733E+03	68.80	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 40 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.0775E+03	1.7254E+01
PU-239	1.000	5160.00*	100.00	1.0648E+03	5.5830E+01
AM-241	1.000	5485.70*	99.00	9.8049E+02	1.7894E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:07:02 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

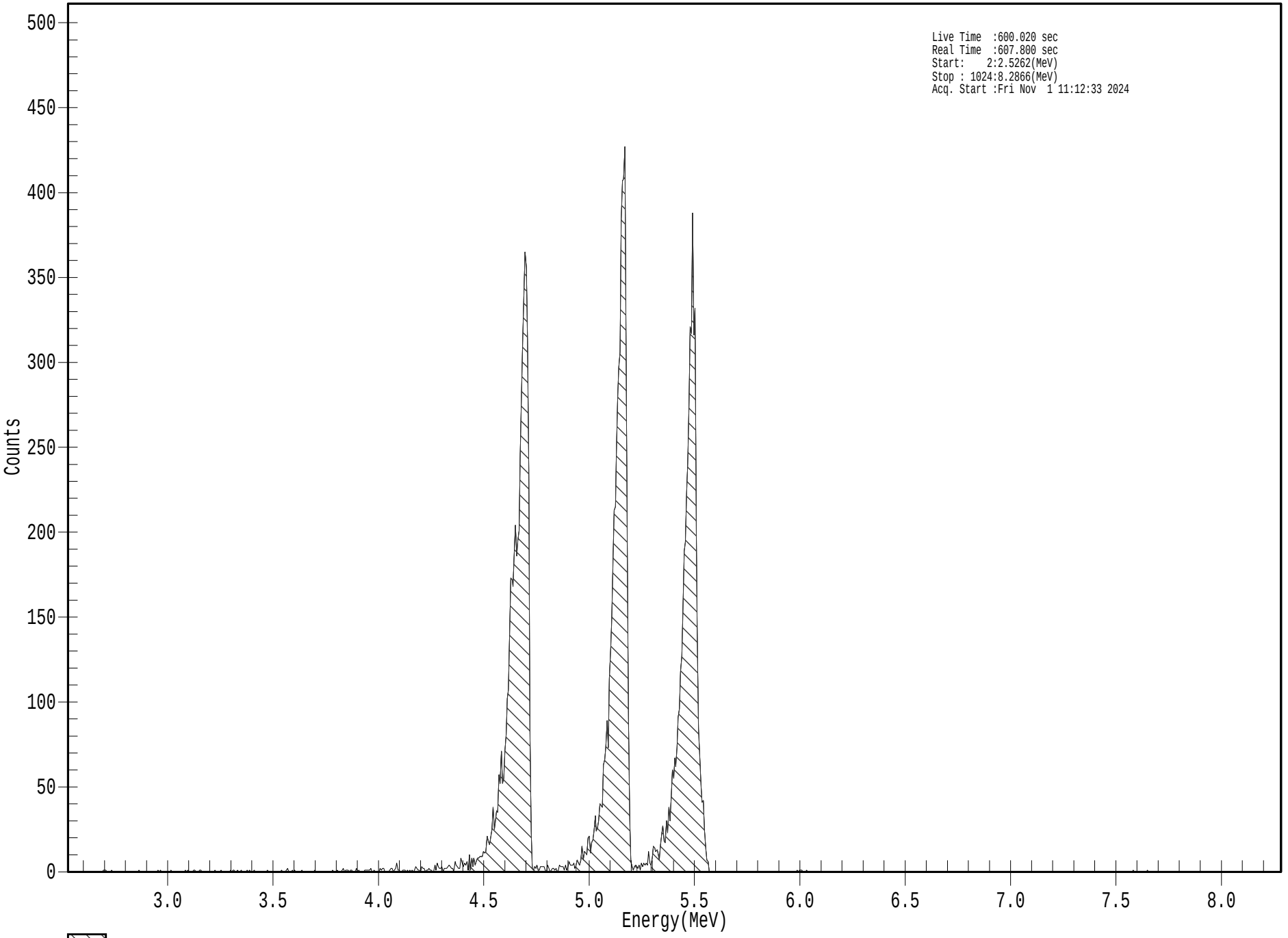
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

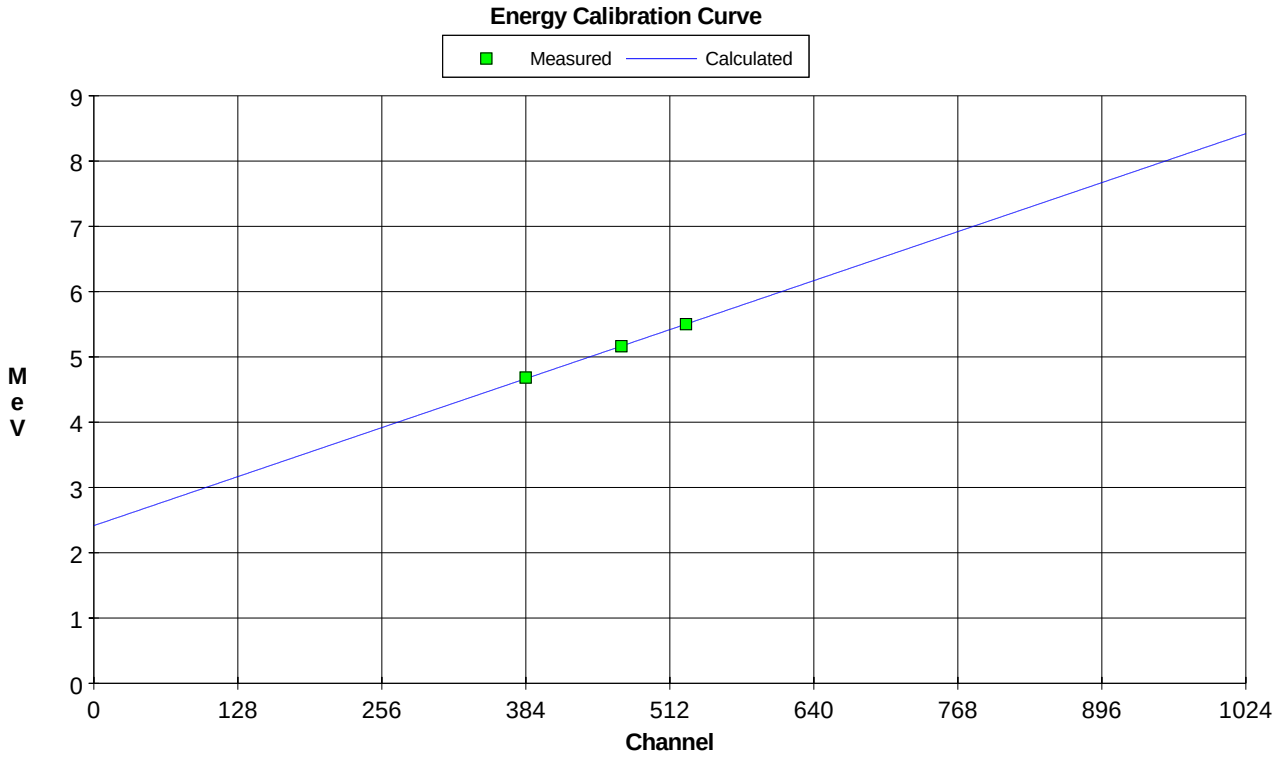
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

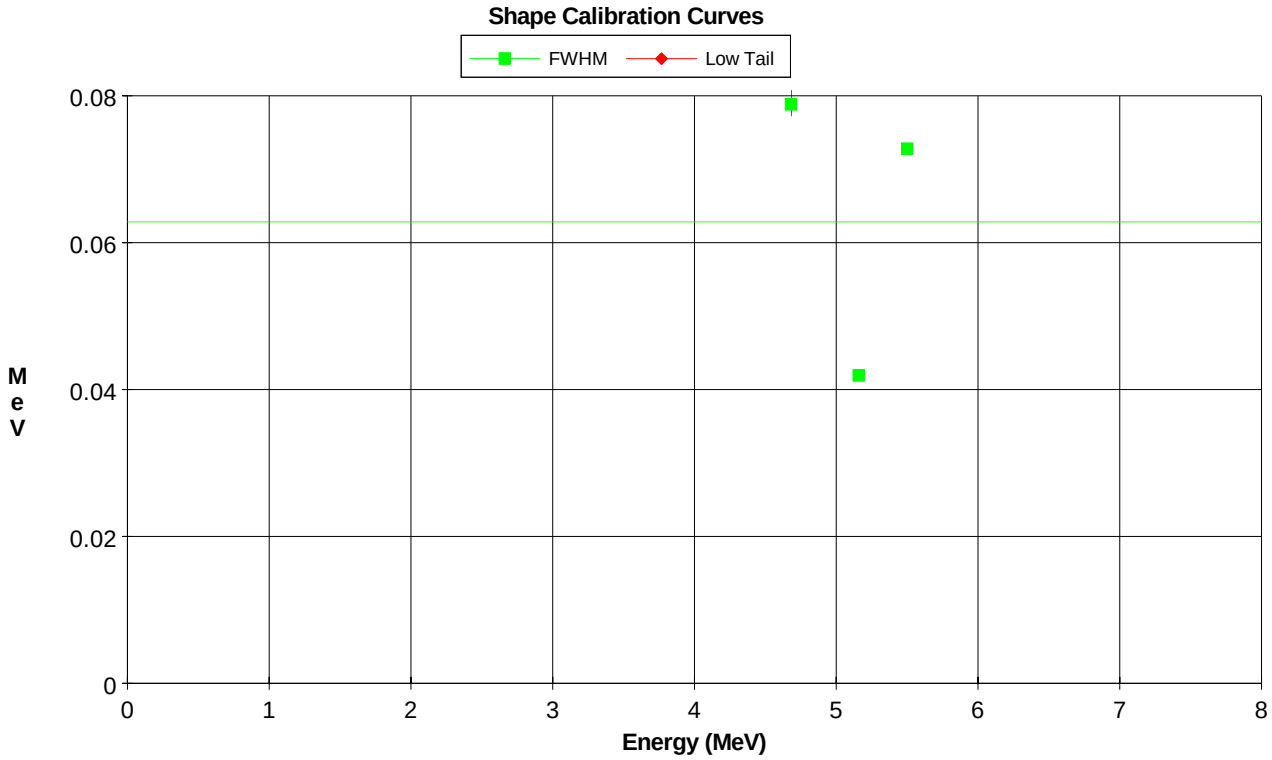
Errors quoted at 1.000 sigma

Detector A_4_4B





Datasource: A_4_4B
Energy = 2.413e+00 MeV +5.864e-03*Ch
FWHM = 6.283e-02 MeV



Datasource: A_4_4B
Energy = 2.413e+00 MeV +5.864e-03*Ch
FWHM = 6.283e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_5A
Sample Title: DET 41 SC 110124
Peak Analysis Performed on: 11/1/2024 12:07:17 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	397	378.72	4658.01	66.89	5.134E+03	71.65	0.000E+00
2	428-	479	463.41	5134.79	58.59	4.799E+03	69.27	0.000E+00
3	492-	543	523.27	5471.83	58.59	4.758E+03	68.98	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 41 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	9.8998E+02	1.4238E+01
PU-239	1.000	5160.00*	100.00	9.2261E+02	4.8041E+01
AM-241	1.000	5485.70*	99.00	9.2396E+02	1.5419E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:07:17 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

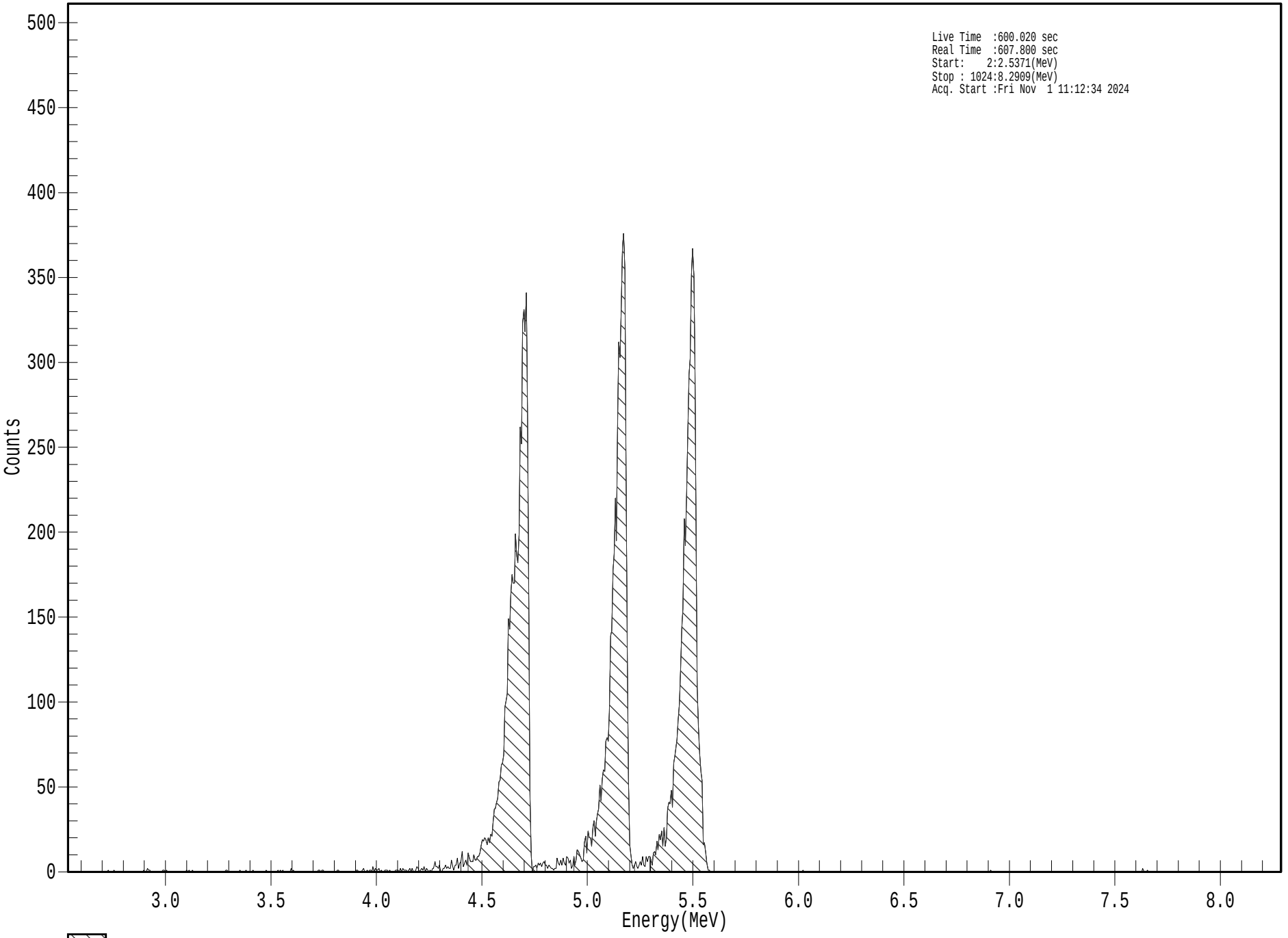
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

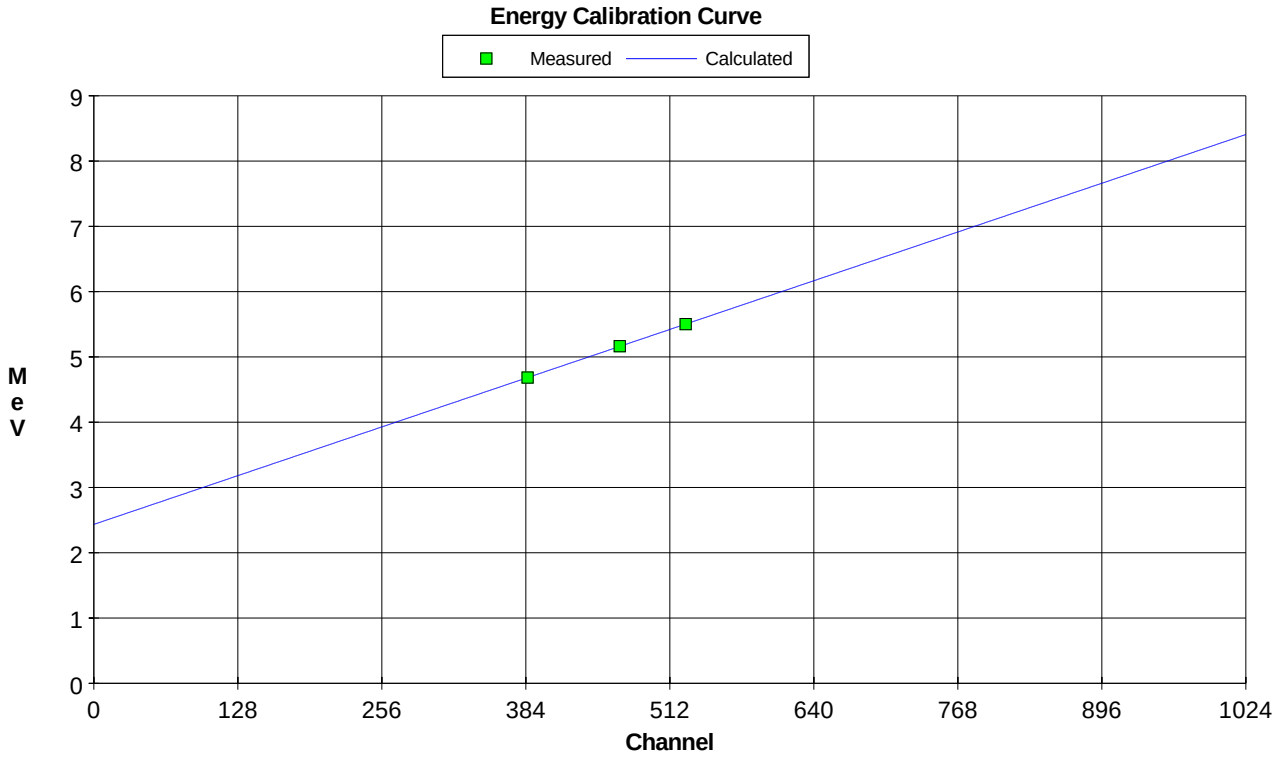
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

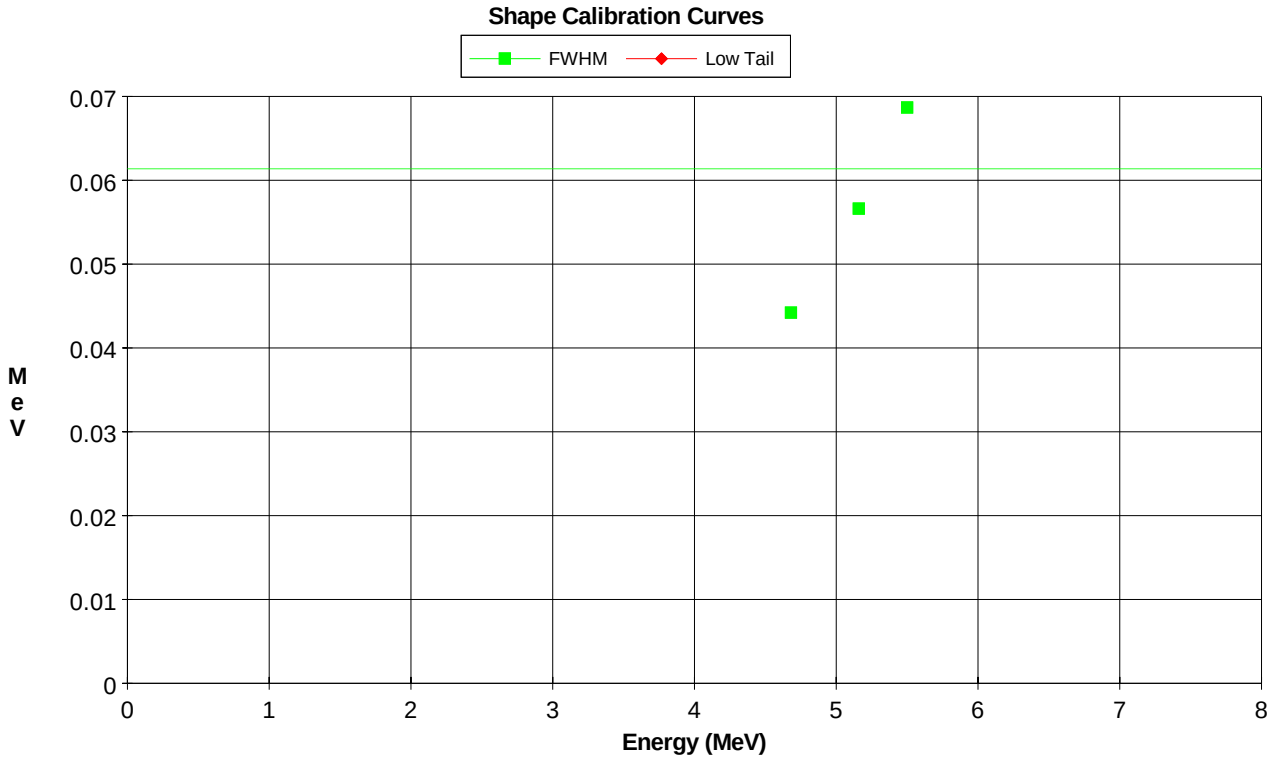
Errors quoted at 1.000 sigma

Detector A_4_5A





Datasource: A_4_5A
Energy = 2.432e+00 MeV +5.832e-03*Ch
FWHM = 6.136e-02 MeV



Datasource: A_4_5A
Energy = 2.432e+00 MeV +5.832e-03*Ch
FWHM = 6.136e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_5B
Sample Title: DET 42 SC 110124
Peak Analysis Performed on: 11/1/2024 12:07:33 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	397	379.52	4663.59	55.63	5.215E+03	72.21	0.000E+00
2	428-	479	463.87	5138.14	58.33	5.041E+03	71.00	0.000E+00
3	491-	543	523.34	5472.73	57.11	4.863E+03	69.74	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 42 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.0356E+03	1.5632E+01
PU-239	1.000	5160.00*	100.00	9.9807E+02	5.2105E+01
AM-241	1.000	5485.70*	99.00	9.7255E+02	1.6788E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:07:33 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

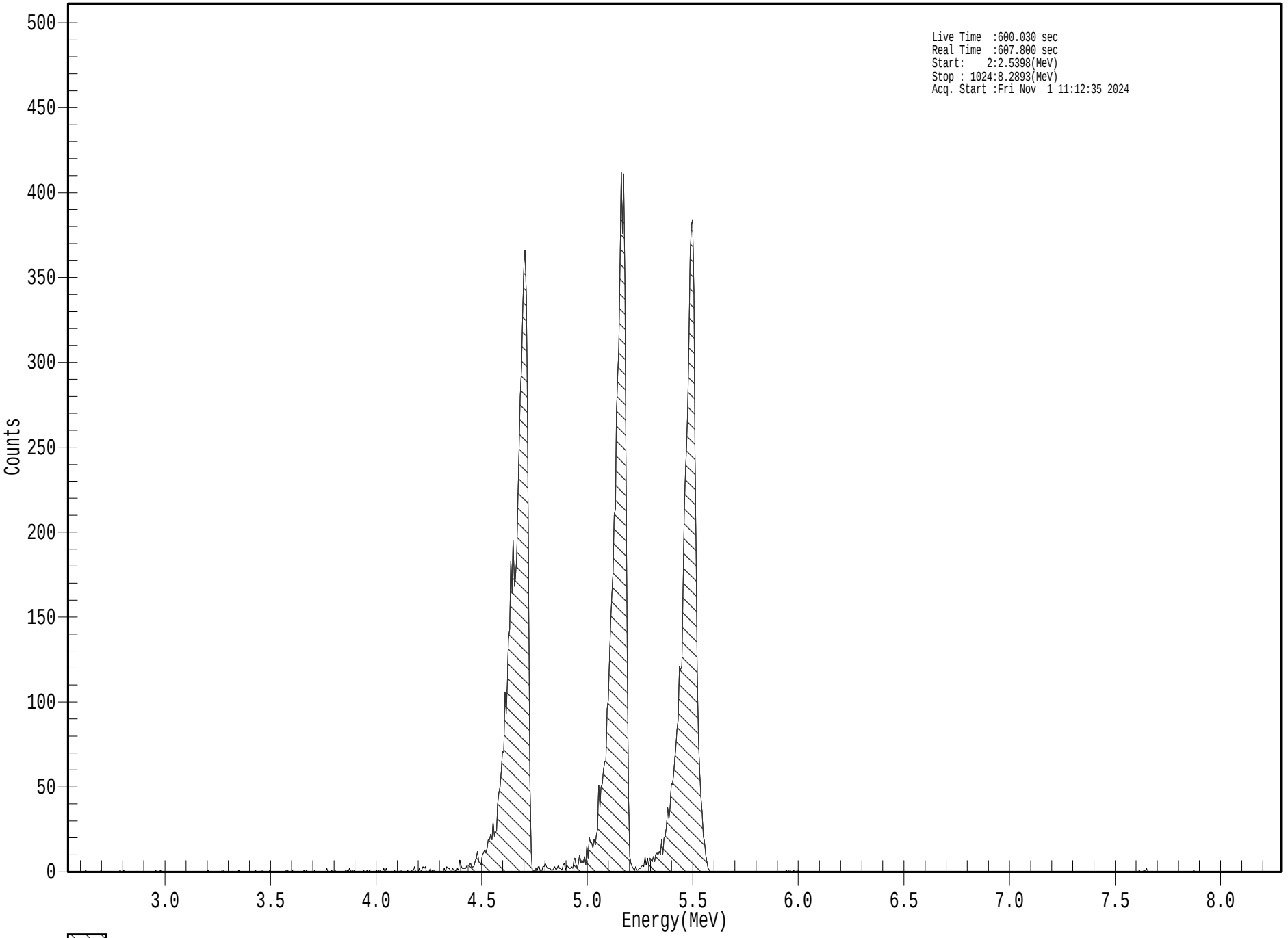
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

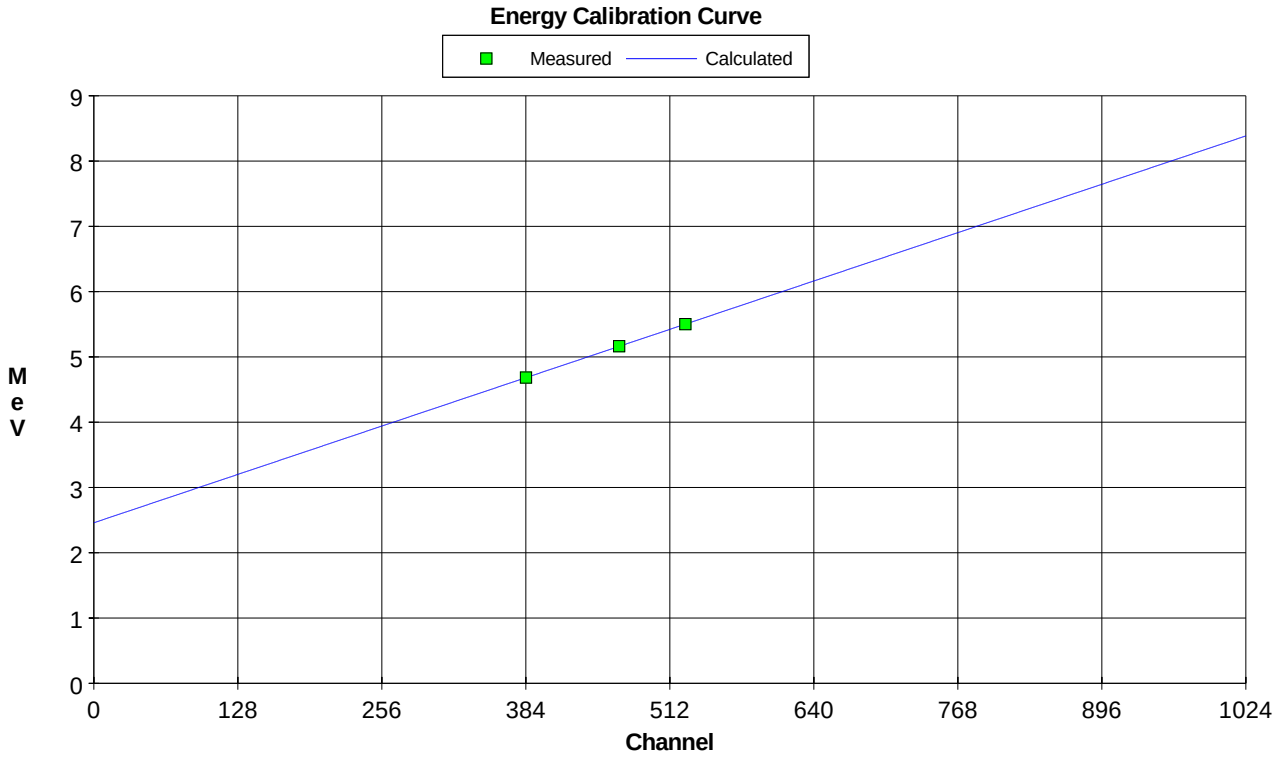
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

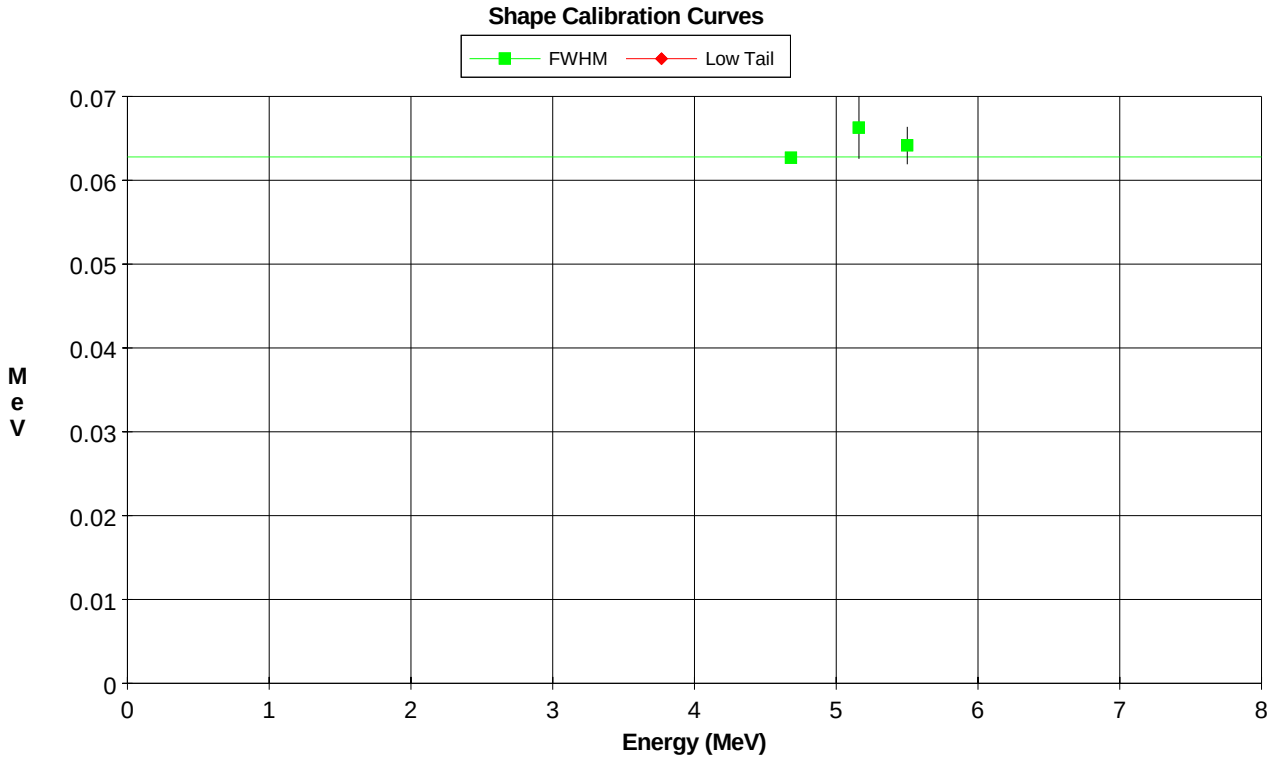
Errors quoted at 1.000 sigma

Detector A_4_5B





Datasource: A_4_5B
Energy = 2.457e+00 MeV +5.787e-03*Ch
FWHM = 6.277e-02 MeV



Datasource: A_4_5B
Energy = 2.457e+00 MeV +5.787e-03*Ch
FWHM = 6.277e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_6A
Sample Title: DET 43 SC 110124
Peak Analysis Performed on: 11/1/2024 12:07:48 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	340-	397	378.64	4654.75	52.35	5.136E+03	71.67	0.000E+00
2	428-	478	462.88	5136.36	54.67	5.413E+03	73.57	0.000E+00
3	490-	541	522.14	5475.12	55.77	4.994E+03	70.67	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 43 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	9.6422E+02	1.3809E+01
PU-239	1.000	5160.00*	100.00	1.0132E+03	5.2510E+01
AM-241	1.000	5485.70*	99.00	9.4419E+02	1.5424E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:07:48 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

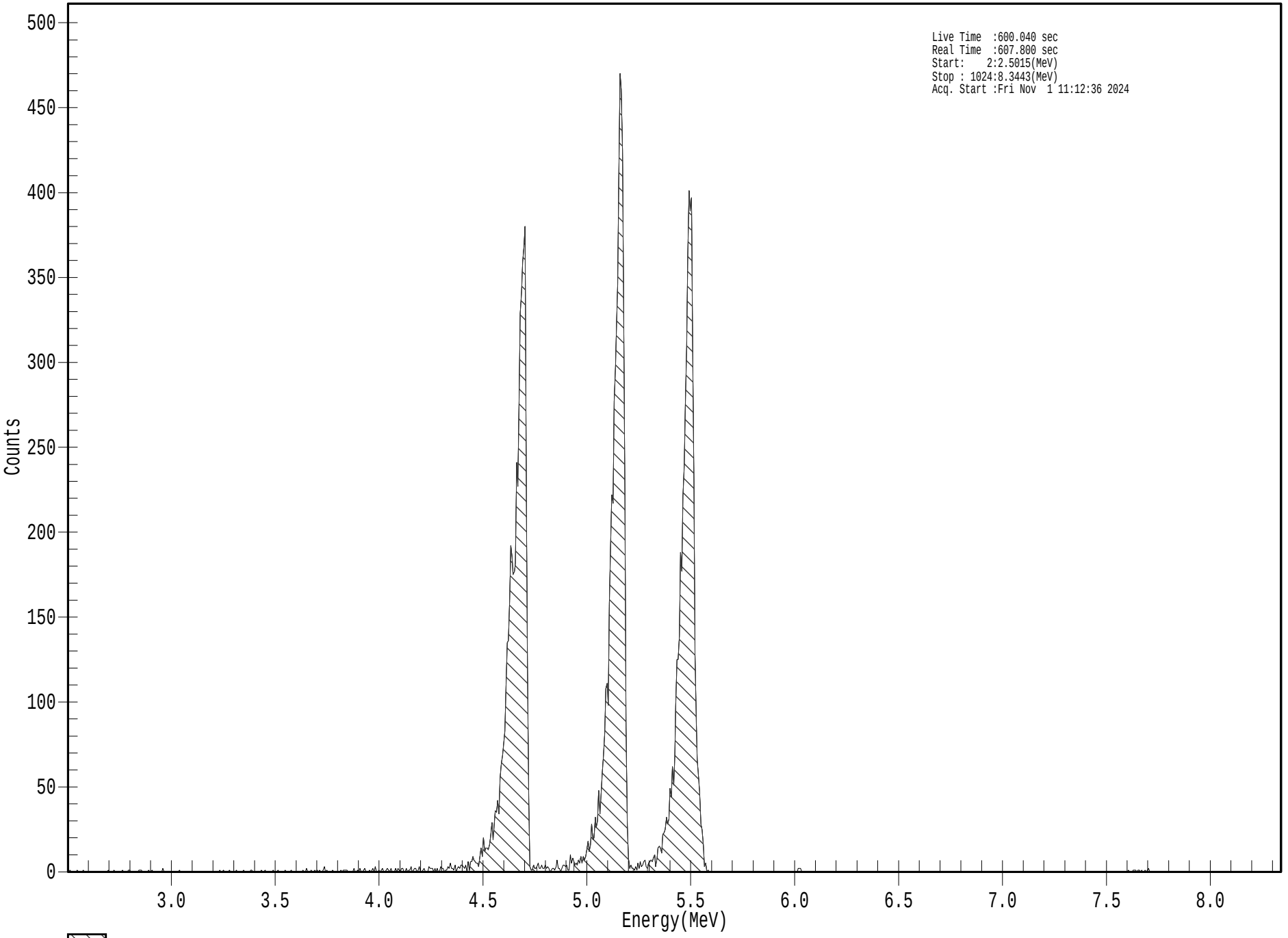
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

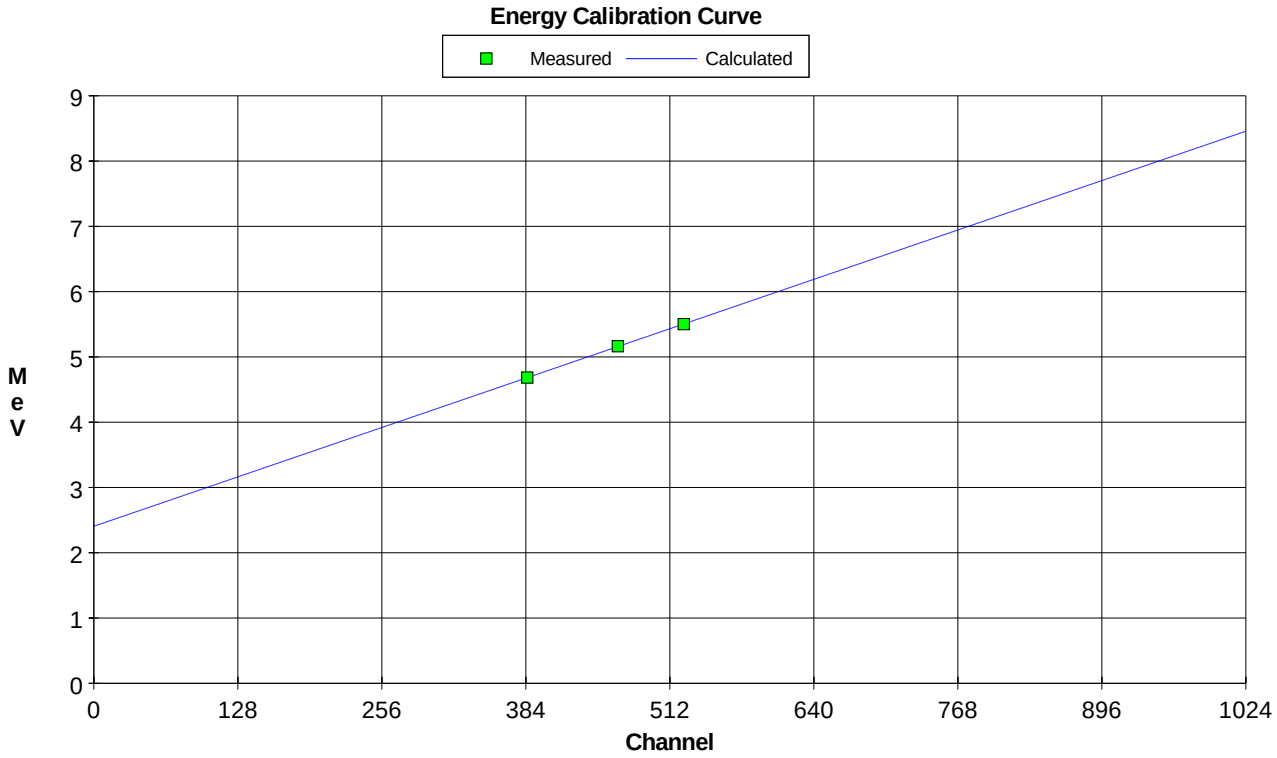
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

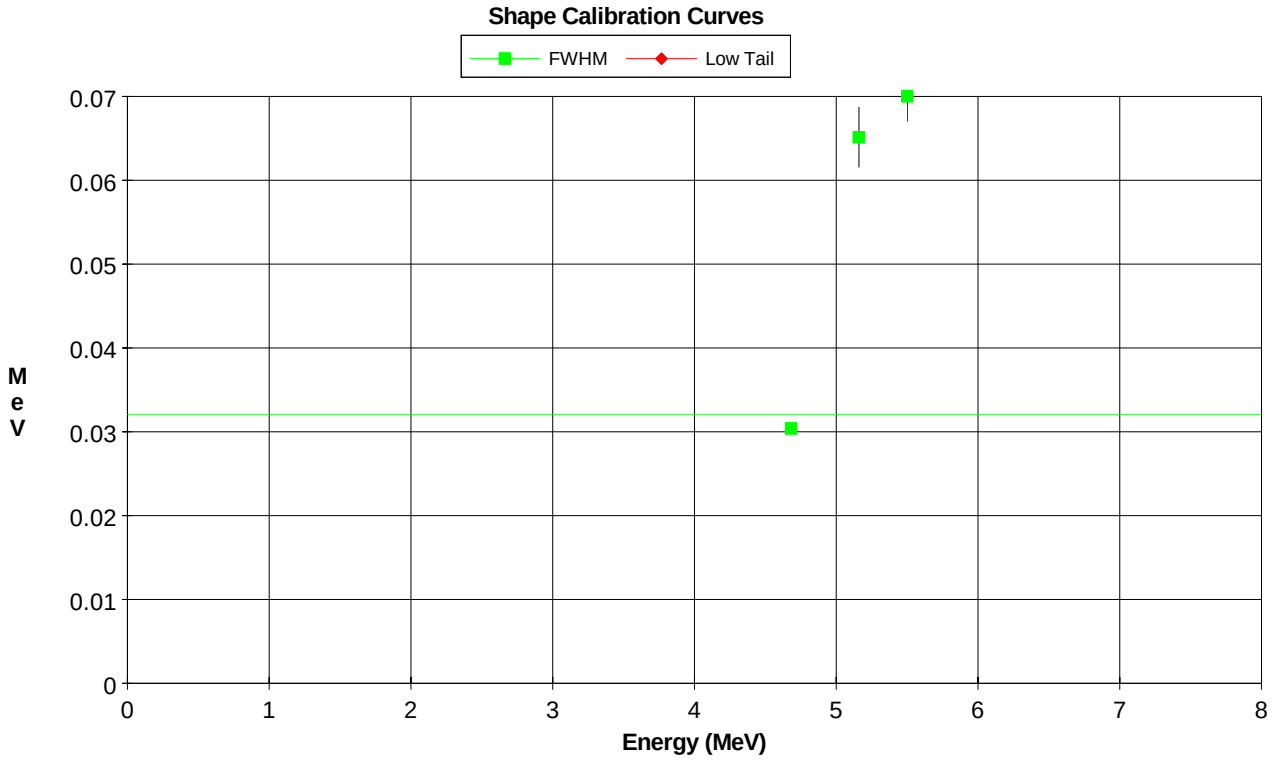
Errors quoted at 1.000 sigma

Detector A_4_6A





Datasource: A_4_6A
Energy = 2.403e+00 MeV +5.910e-03*Ch
FWHM = 3.205e-02 MeV



Datasource: A_4_6A
Energy = 2.403e+00 MeV +5.910e-03*Ch
FWHM = 3.205e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_6B
Sample Title: DET 44 SC 110124
Peak Analysis Performed on: 11/1/2024 12:55:32 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	396	377.77	4655.68	48.76	4.695E+03	68.52	0.000E+00
2	427-	477	462.10	5136.76	59.77	4.894E+03	69.96	0.000E+00
3	490-	541	521.65	5476.47	57.55	4.257E+03	65.25	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 44 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	8.9285E+02	1.3463E+01
PU-239	1.000	5160.00*	100.00	9.2790E+02	4.8301E+01
AM-241	1.000	5485.70*	99.00	8.1528E+02	1.4251E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:55:31 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

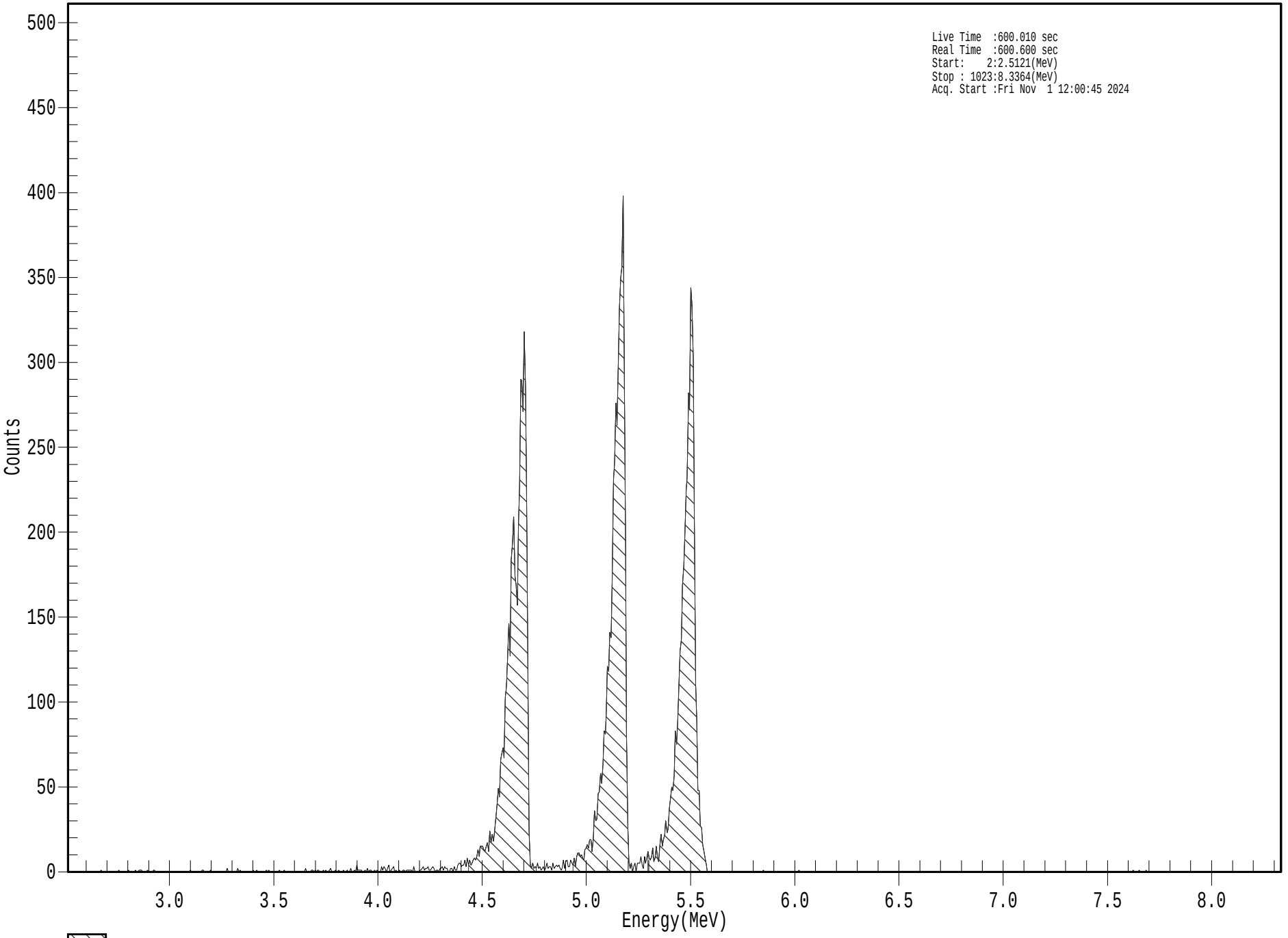
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

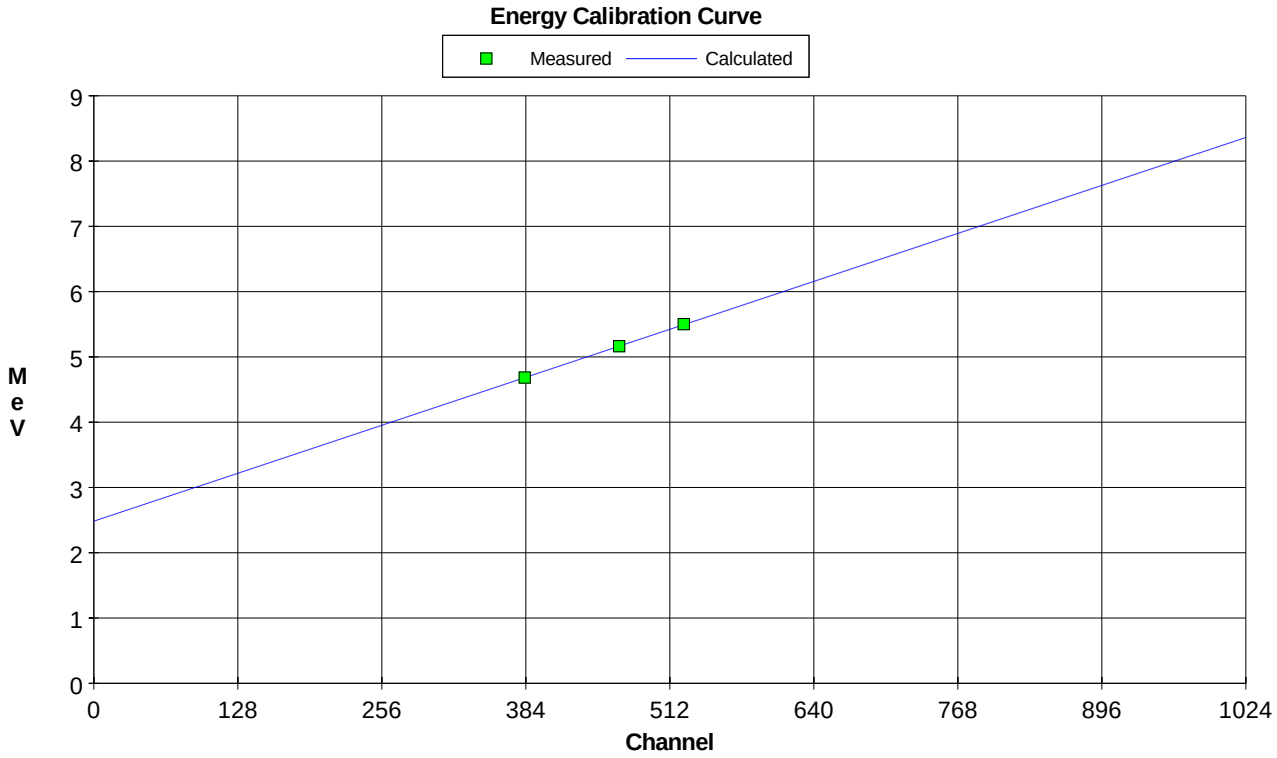
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

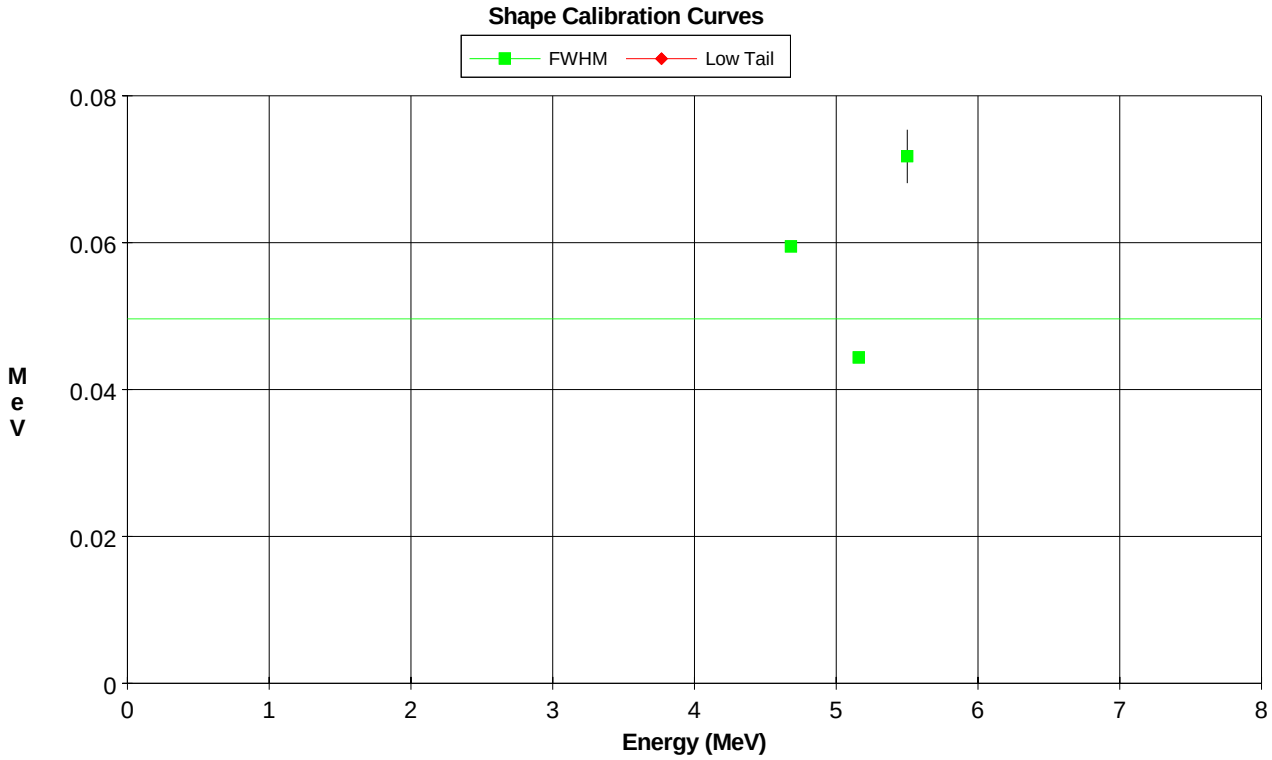
Errors quoted at 1.000 sigma

Detector A_4_6B





Datasource: A_4_6B
Energy = 2.481e+00 MeV +5.741e-03*Ch
FWHM = 4.959e-02 MeV



Datasource: A_4_6B
Energy = 2.481e+00 MeV +5.741e-03*Ch
FWHM = 4.959e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_4A
Sample Title: DET 51 SC 110124
Peak Analysis Performed on: 11/1/2024 3:01:56 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	333-	389	365.49	4623.90	88.56	5.462E+03	73.91	0.000E+00
2	419-	469	448.60	5107.46	65.56	5.178E+03	71.96	0.000E+00
3	481-	531	507.33	5449.14	58.58	4.789E+03	69.20	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 51 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.997	4687.60*	99.70	1.0723E+03	1.7212E+01
PU-239	0.998	5160.00*	100.00	1.0135E+03	5.3233E+01
AM-241	0.999	5485.70*	99.00	9.4686E+02	1.7449E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:01:56 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

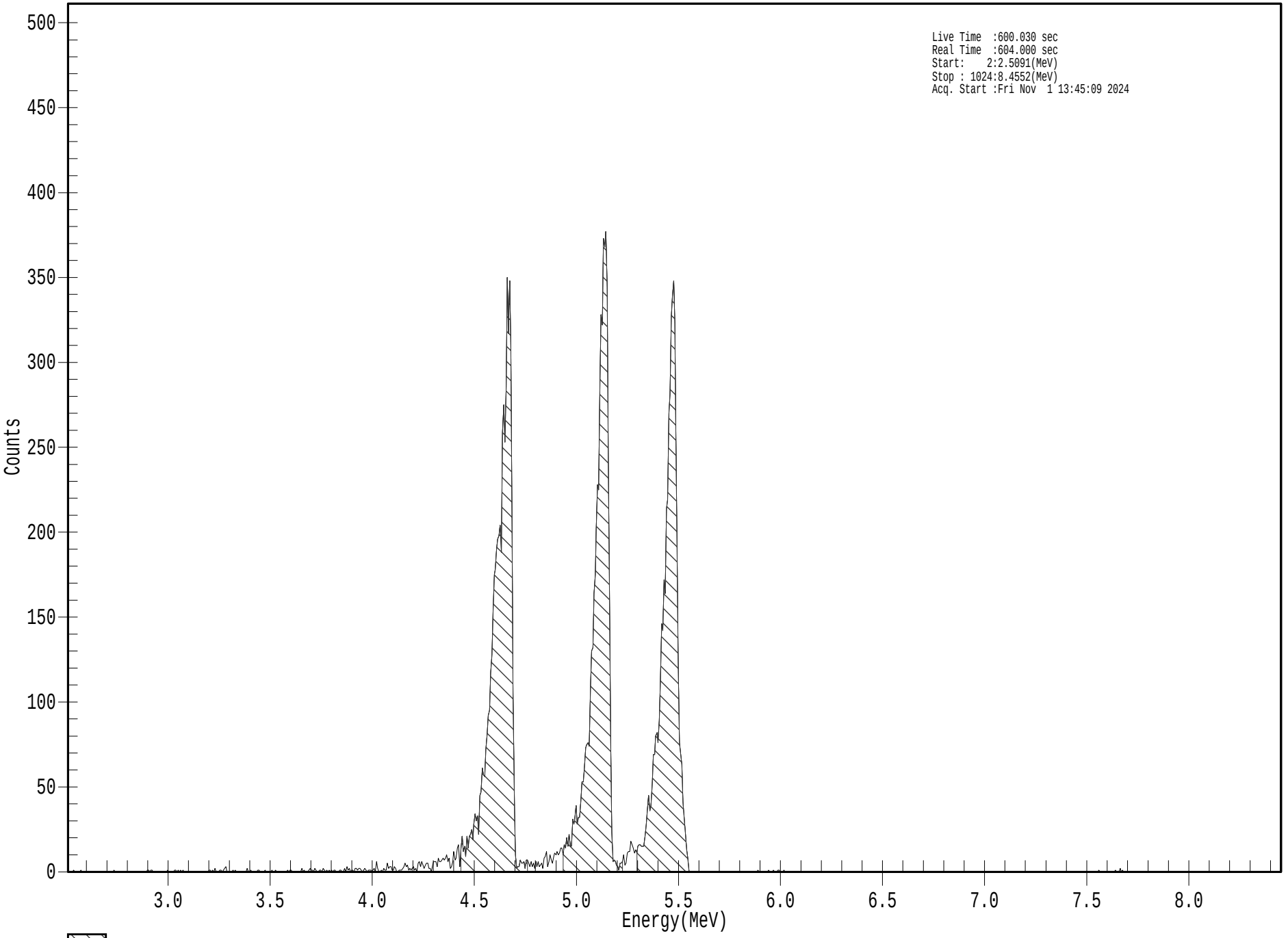
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

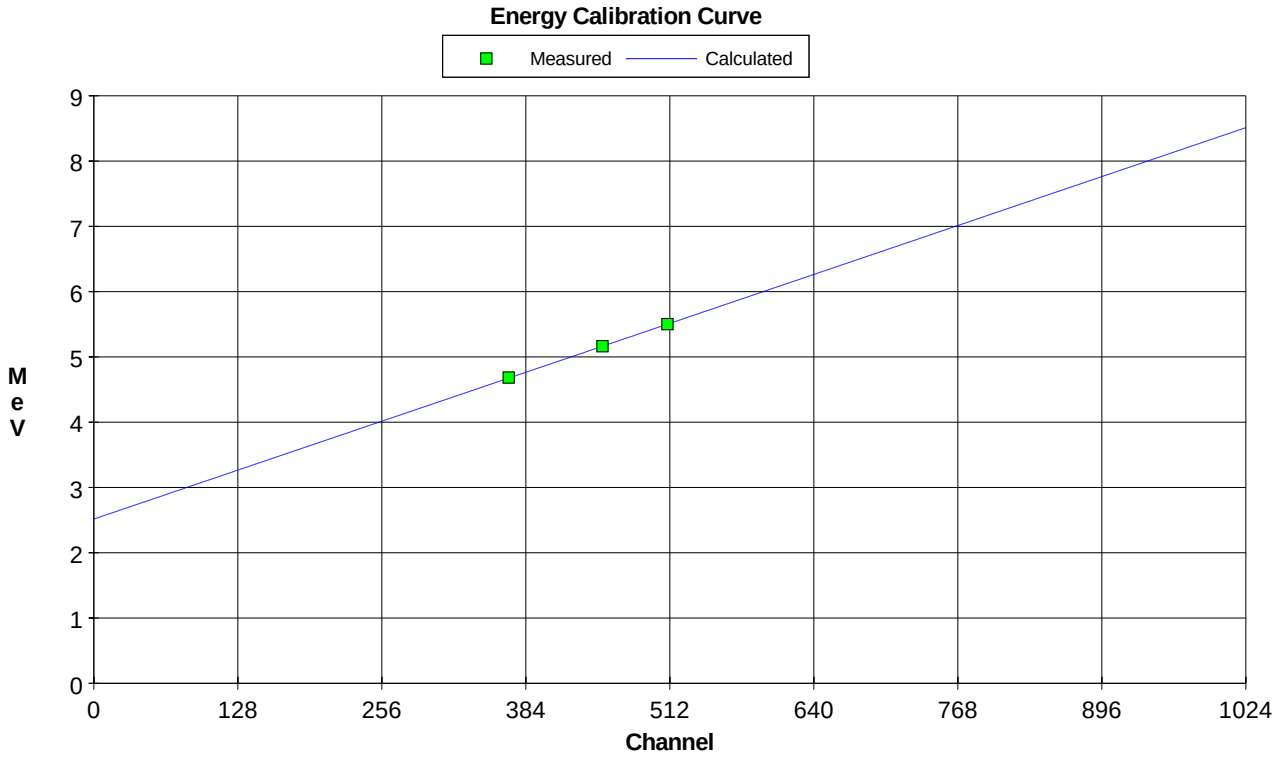
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

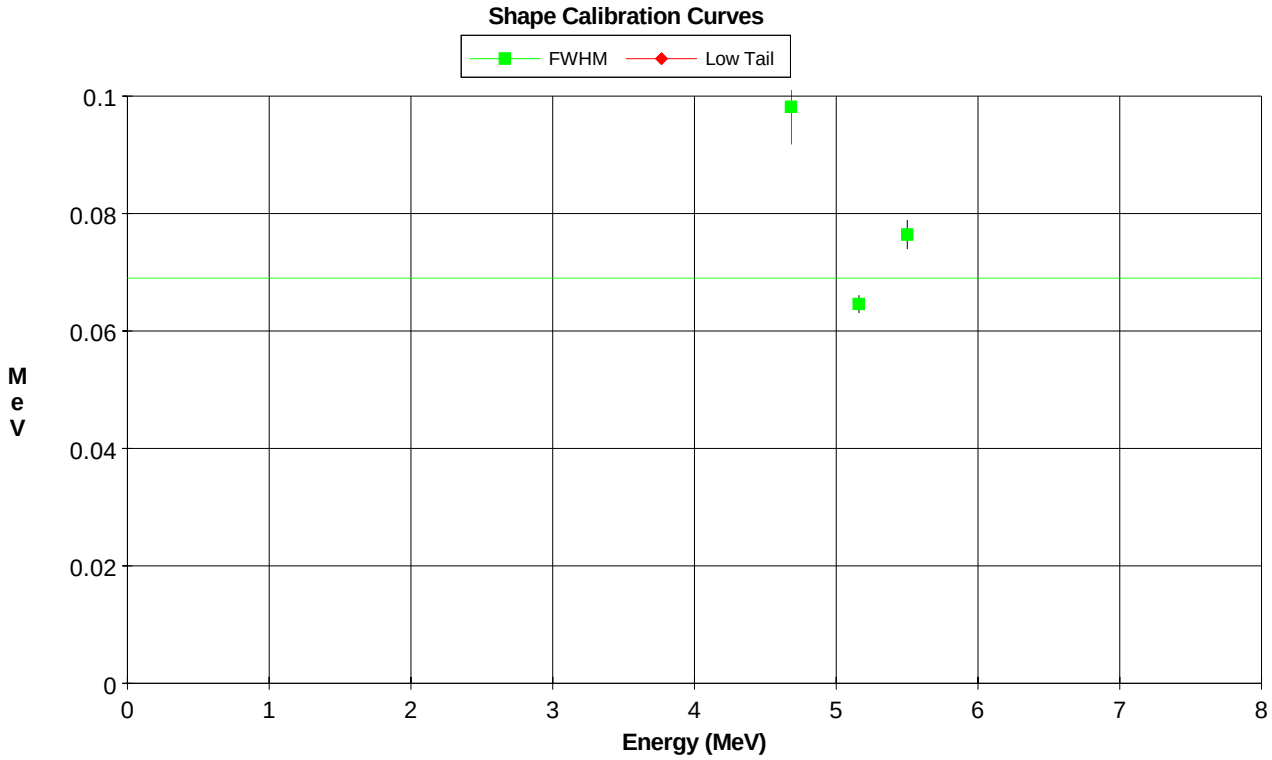
Errors quoted at 1.000 sigma

Detector A_1_4A





Datasource: A_1_4A
Energy = 2.514e+00 MeV +5.855e-03*Ch
FWHM = 6.898e-02 MeV



Datasource: A_1_4A
Energy = 2.514e+00 MeV +5.855e-03*Ch
FWHM = 6.898e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_4B
Sample Title: DET 52 SC 110124
Peak Analysis Performed on: 11/1/2024 3:19:48 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	344-	400	384.47	4667.13	74.07	5.174E+03	71.93	0.000E+00
2	431-	480	468.62	5159.43	63.36	5.238E+03	72.37	0.000E+00
3	492-	541	527.84	5505.95	63.17	4.761E+03	69.00	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 52 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.9802E+02	1.4382E+01
PU-239	1.000	5160.00*	100.00	1.0073E+03	5.2306E+01
AM-241	1.000	5485.70*	99.00	9.2485E+02	1.5494E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:19:48 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

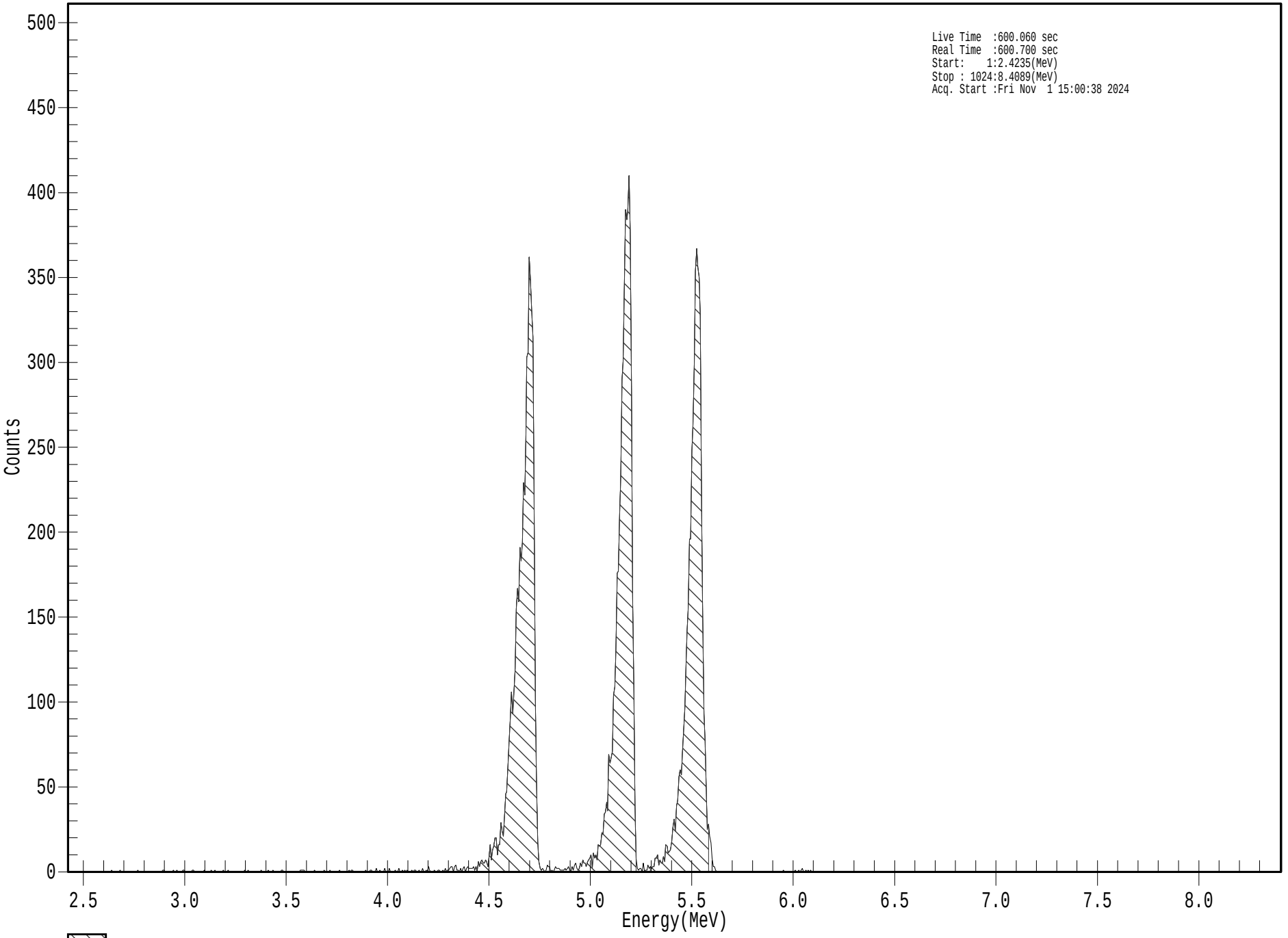
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

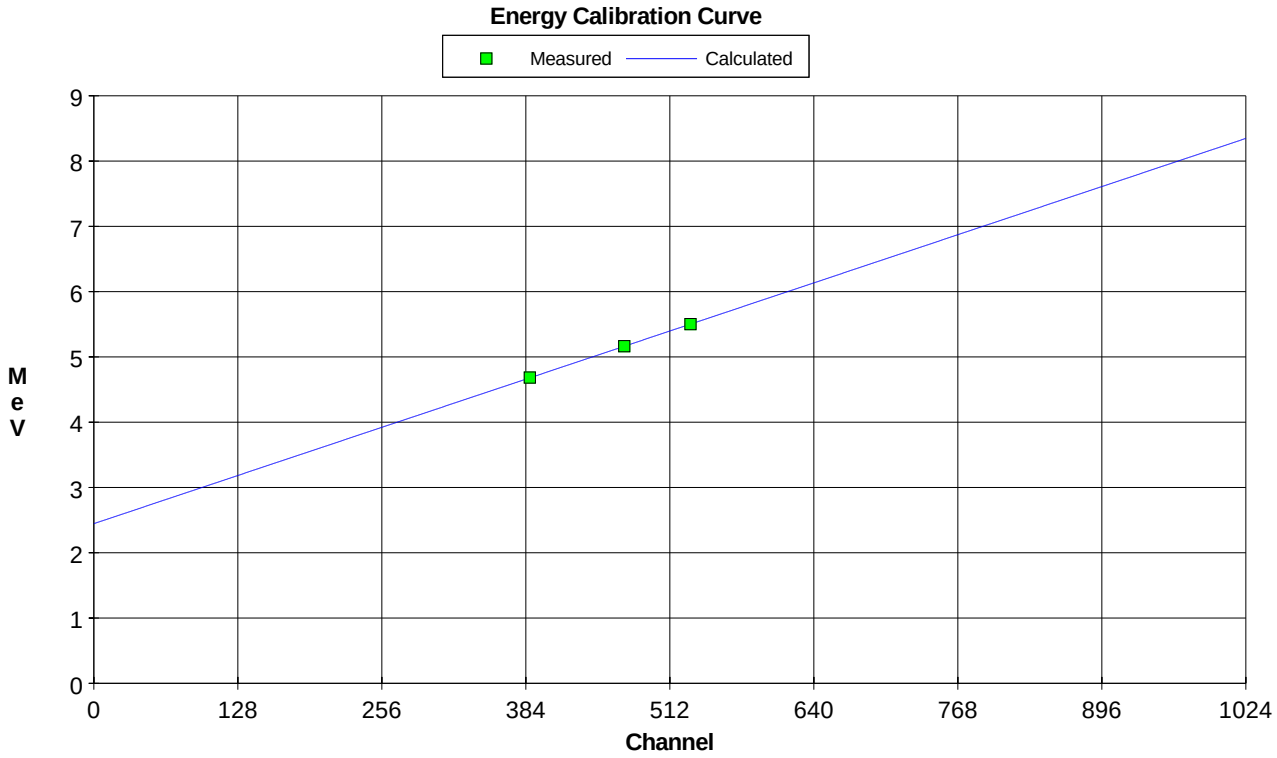
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

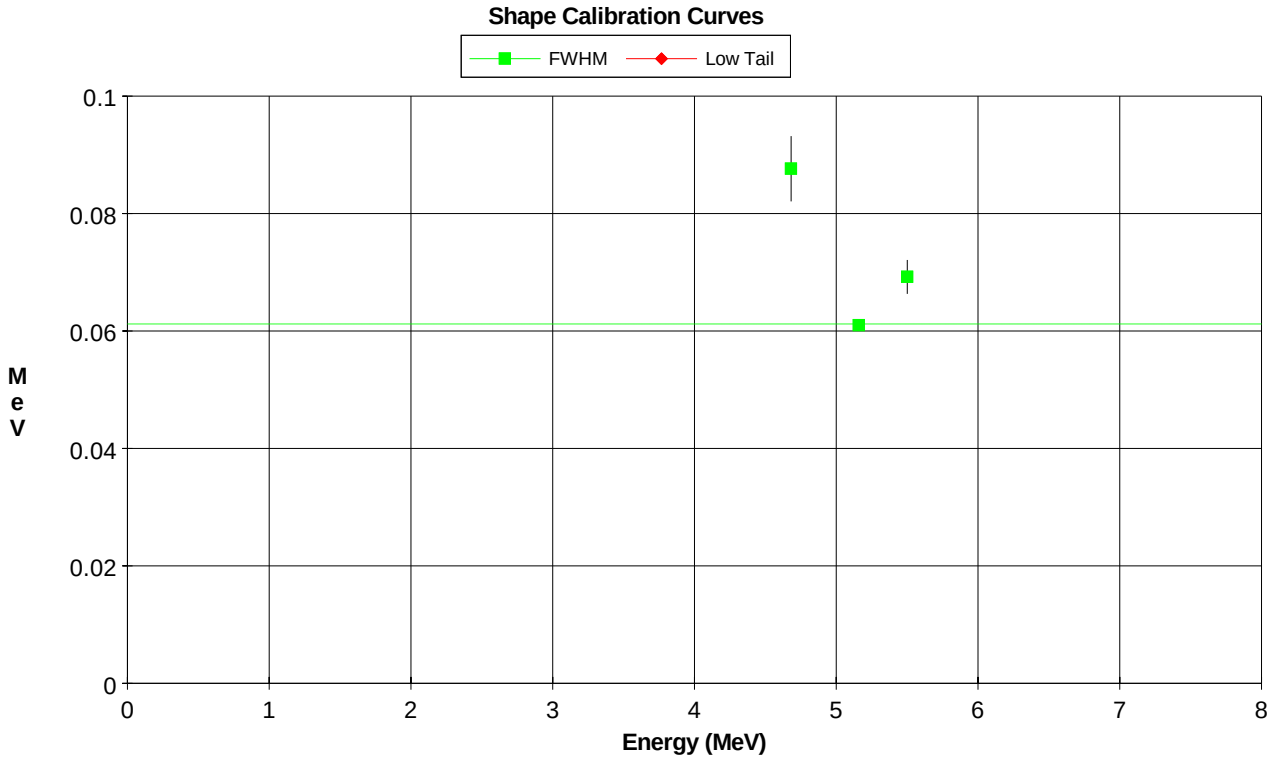
Errors quoted at 1.000 sigma

Detector A_1_4B





Datasource: A_1_4B
Energy = 2.444e+00 MeV +5.763e-03*Ch
FWHM = 6.115e-02 MeV



Datasource: A_1_4B
Energy = 2.444e+00 MeV +5.763e-03*Ch
FWHM = 6.115e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_5A
Sample Title: DET 53 SC 110124
Peak Analysis Performed on: 11/1/2024 3:02:12 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	334-	390	373.80	4666.06	61.42	4.812E+03	69.37	0.000E+00
2	420-	470	449.01	5104.01	60.72	4.912E+03	70.09	0.000E+00
3	482-	532	502.37	5414.71	52.99	4.278E+03	65.41	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 53 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.5362E+02	1.4718E+01
PU-239	0.998	5160.00*	100.00	9.7052E+02	5.0662E+01
AM-241	0.997	5485.70*	99.00	8.5379E+02	1.5283E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:02:12 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

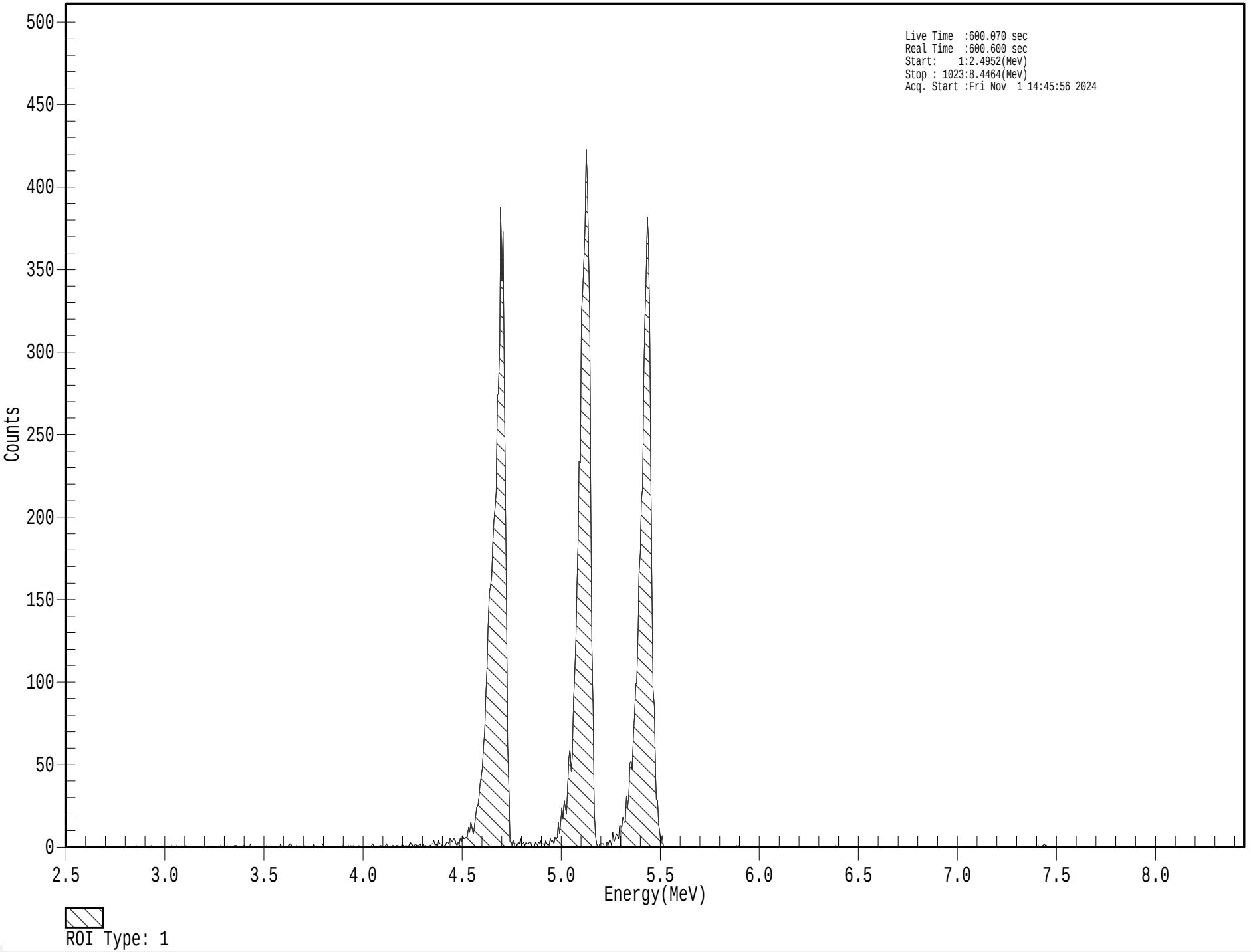
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

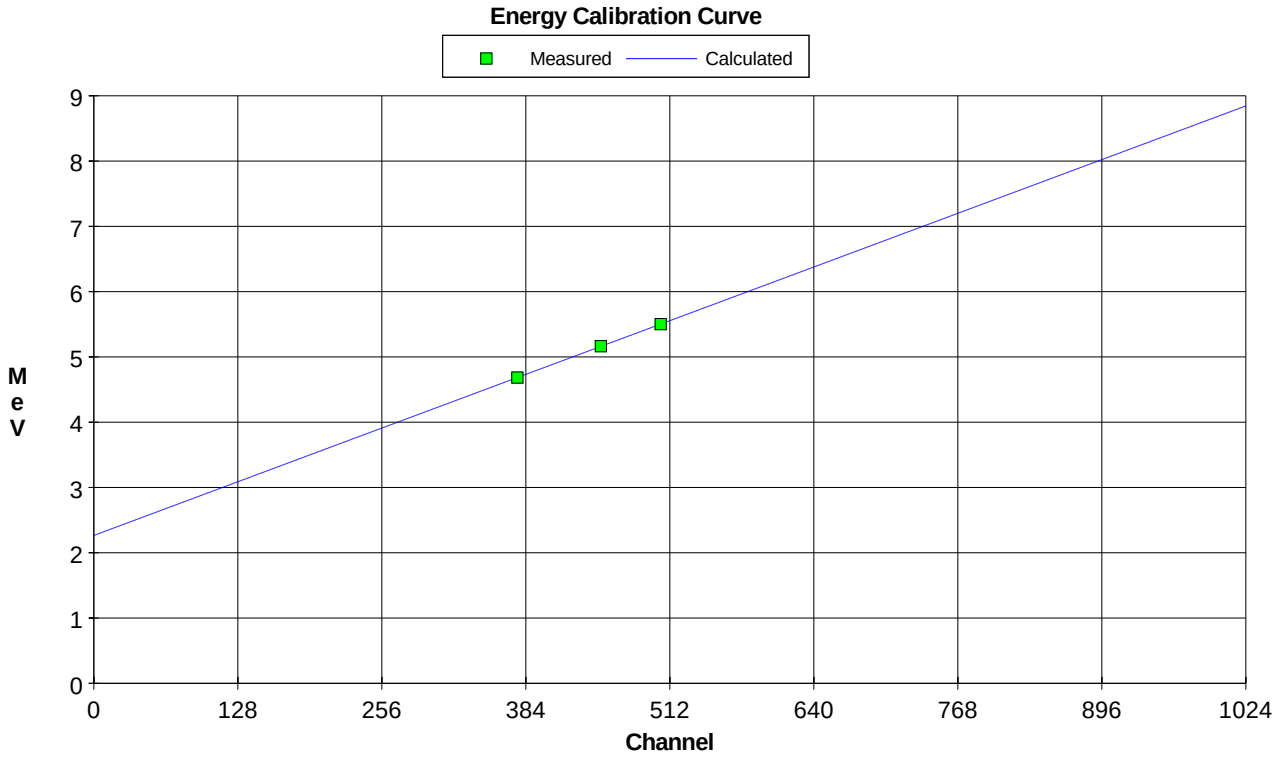
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

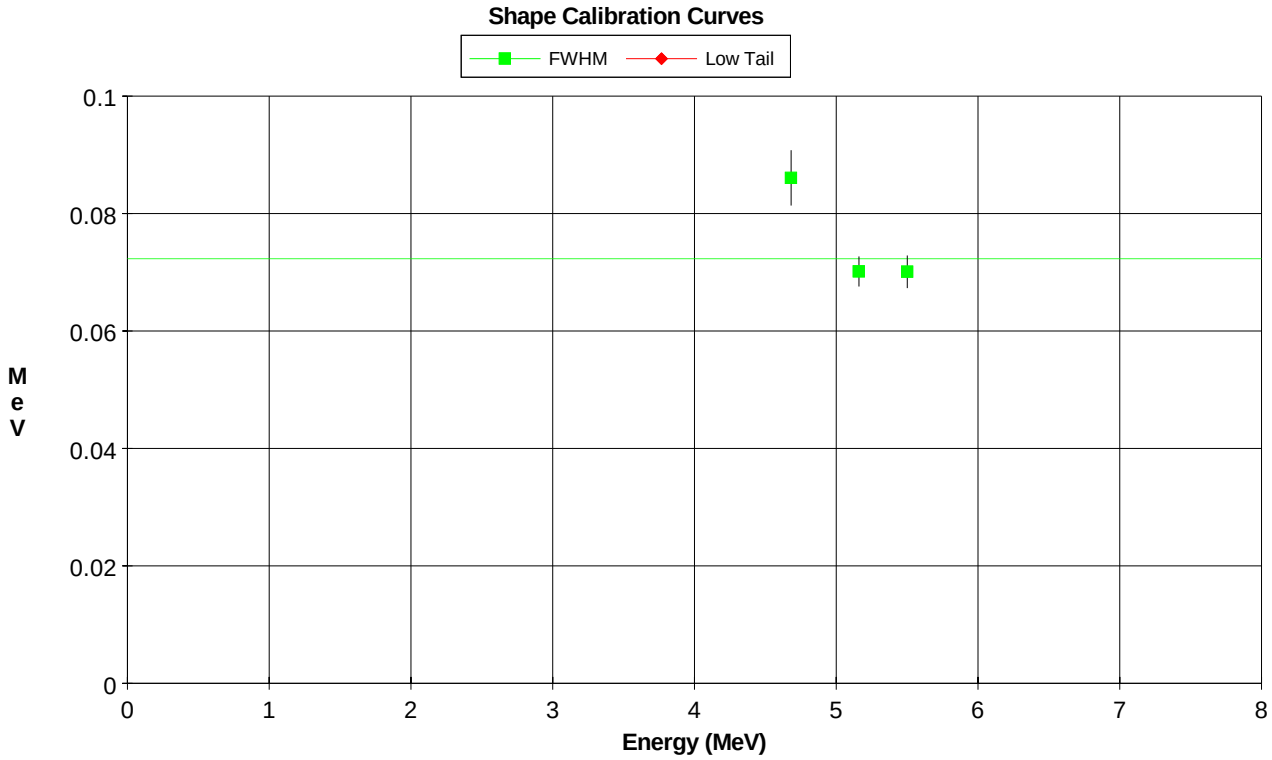
Errors quoted at 1.000 sigma

Detector A_1_5A





Datasource: A_1_5A
Energy = 2.263e+00 MeV +6.425e-03*Ch
FWHM = 7.226e-02 MeV



Datasource: A_1_5A
Energy = 2.263e+00 MeV +6.425e-03*Ch
FWHM = 7.226e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_5B
Sample Title: DET 54 SC 110124
Peak Analysis Performed on: 11/1/2024 3:02:35 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	336-	392	369.05	4625.87	58.19	5.998E+03	77.45	0.000E+00
2	423-	472	452.78	5113.00	64.96	5.817E+03	76.27	0.000E+00
3	484-	534	511.82	5456.53	53.78	5.329E+03	73.00	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 54 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.998	4687.60*	99.70	1.0203E+03	1.3731E+01
PU-239	0.999	5160.00*	100.00	9.8653E+02	5.1045E+01
AM-241	0.999	5485.70*	99.00	9.1290E+02	1.4671E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:02:35 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_5B
Sample Title: DET 54 SC 110124
Peak Analysis Performed on: 11/1/2024 3:02:35 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	336-	392	369.05	4625.87	58.19	5.998E+03	77.45	0.000E+00
2	423-	472	452.78	5113.00	64.96	5.817E+03	76.27	0.000E+00
3	484-	534	511.82	5456.53	53.78	5.329E+03	73.00	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 54 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.998	4687.60*	99.70	1.0203E+03	1.3731E+01
PU-239	0.999	5160.00*	100.00	9.8653E+02	5.1045E+01
AM-241	0.999	5485.70*	99.00	9.1290E+02	1.4671E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:02:35 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

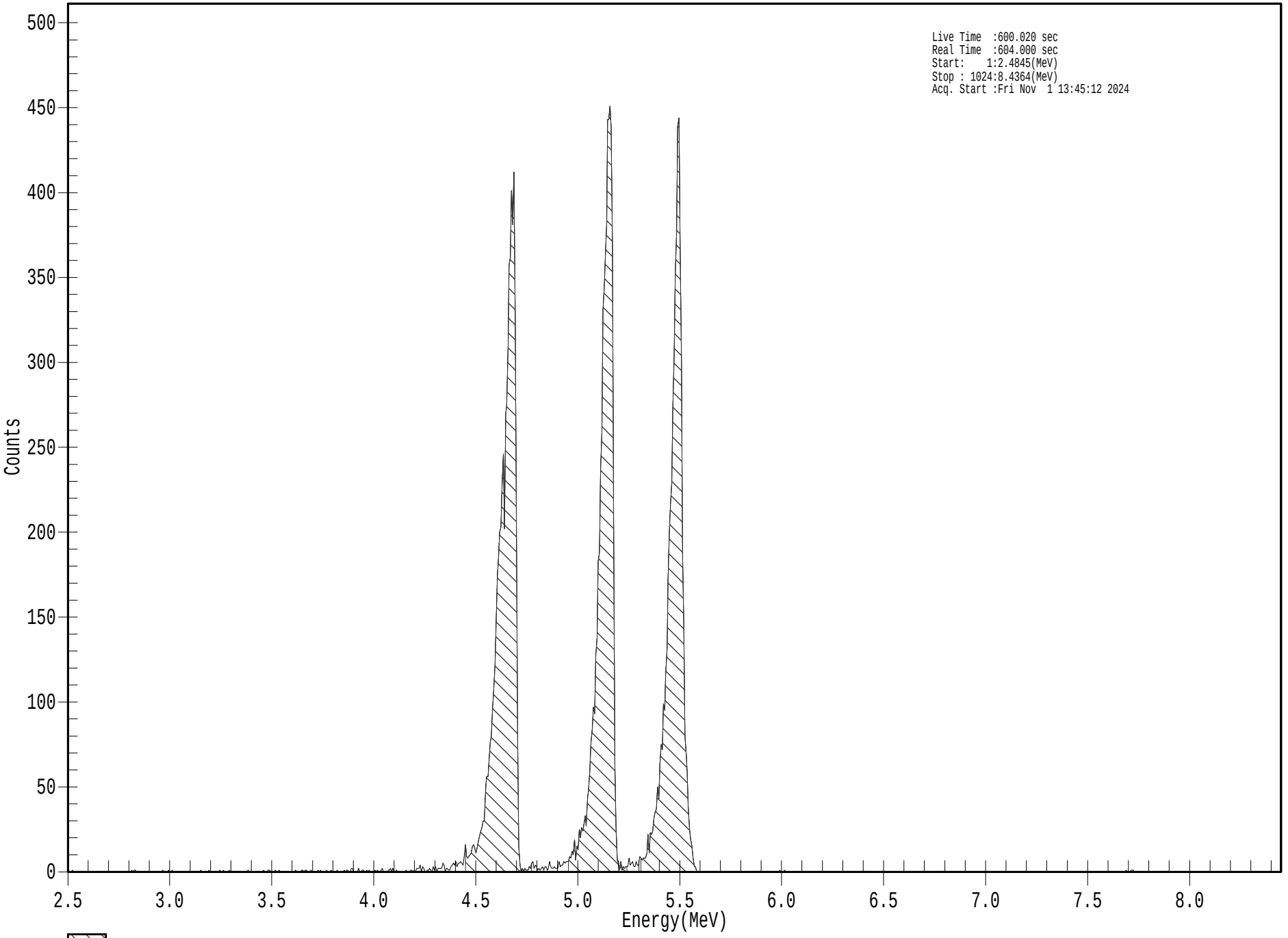
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

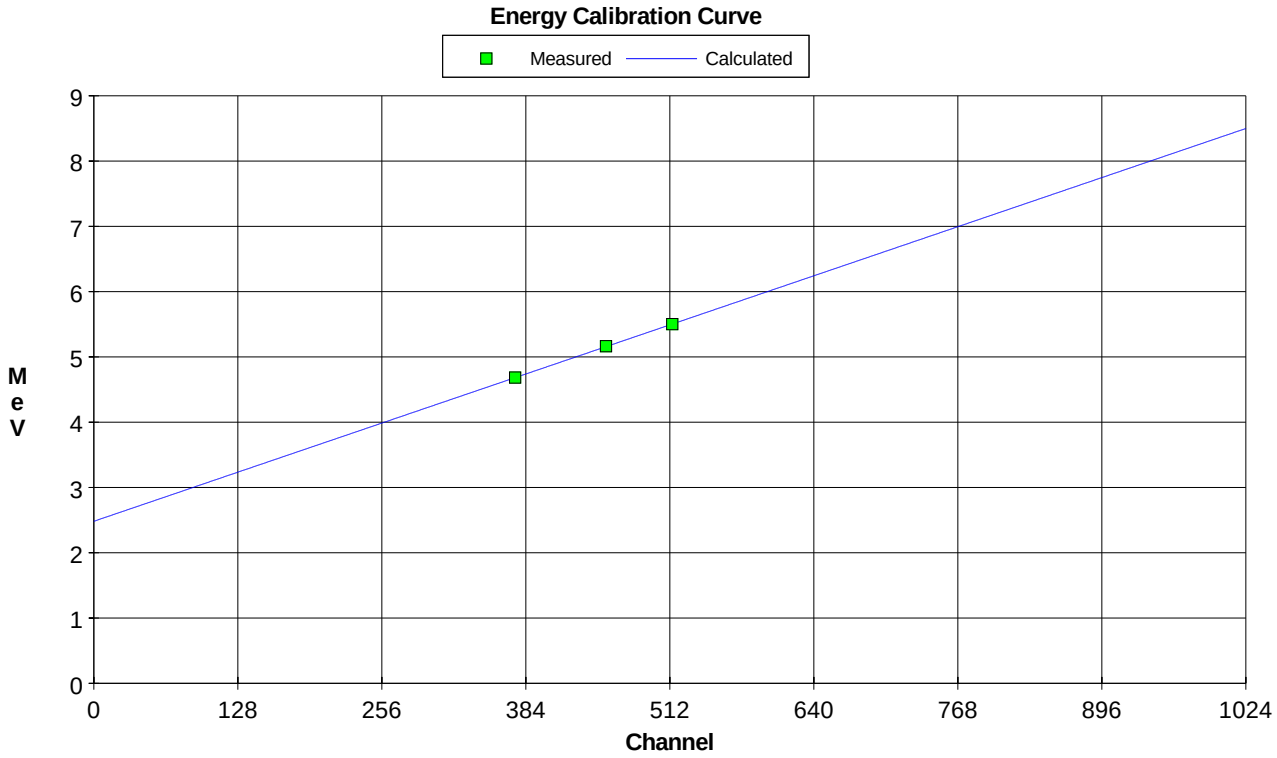
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

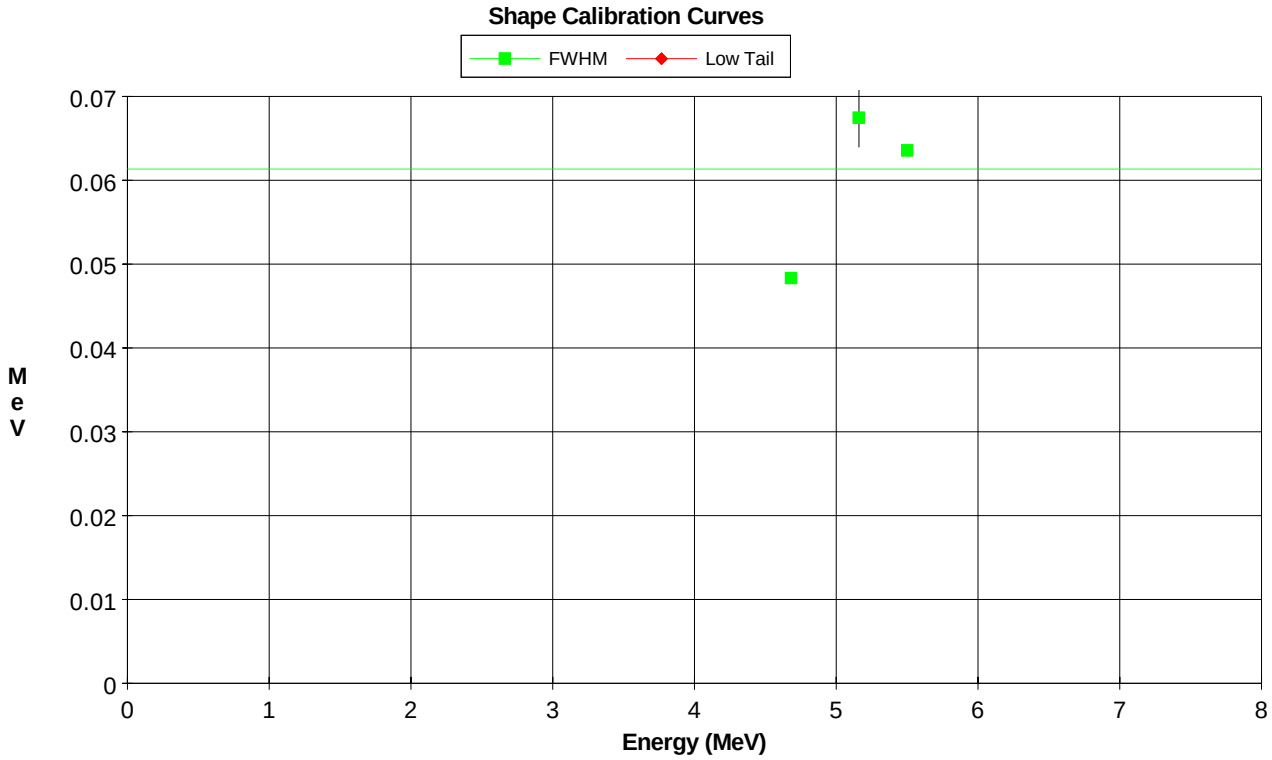
Errors quoted at 1.000 sigma

Detector A_1_5B





Datasource: A_1_5B
Energy = 2.480e+00 MeV +5.876e-03*Ch
FWHM = 6.133e-02 MeV



Datasource: A_1_5B
Energy = 2.480e+00 MeV +5.876e-03*Ch
FWHM = 6.133e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_6A
Sample Title: DET 55 SC 110124
Peak Analysis Performed on: 11/1/2024 3:02:50 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	338-	394	375.45	4652.22	68.22	5.819E+03	76.28	0.000E+00
2	424-	474	459.44	5141.08	55.11	5.715E+03	75.60	0.000E+00
3	486-	536	518.74	5486.28	61.84	4.975E+03	70.53	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 55 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.1556E+03	1.6102E+01
PU-239	1.000	5160.00*	100.00	1.1315E+03	5.8668E+01
AM-241	1.000	5485.70*	99.00	9.9497E+02	1.6636E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:02:49 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

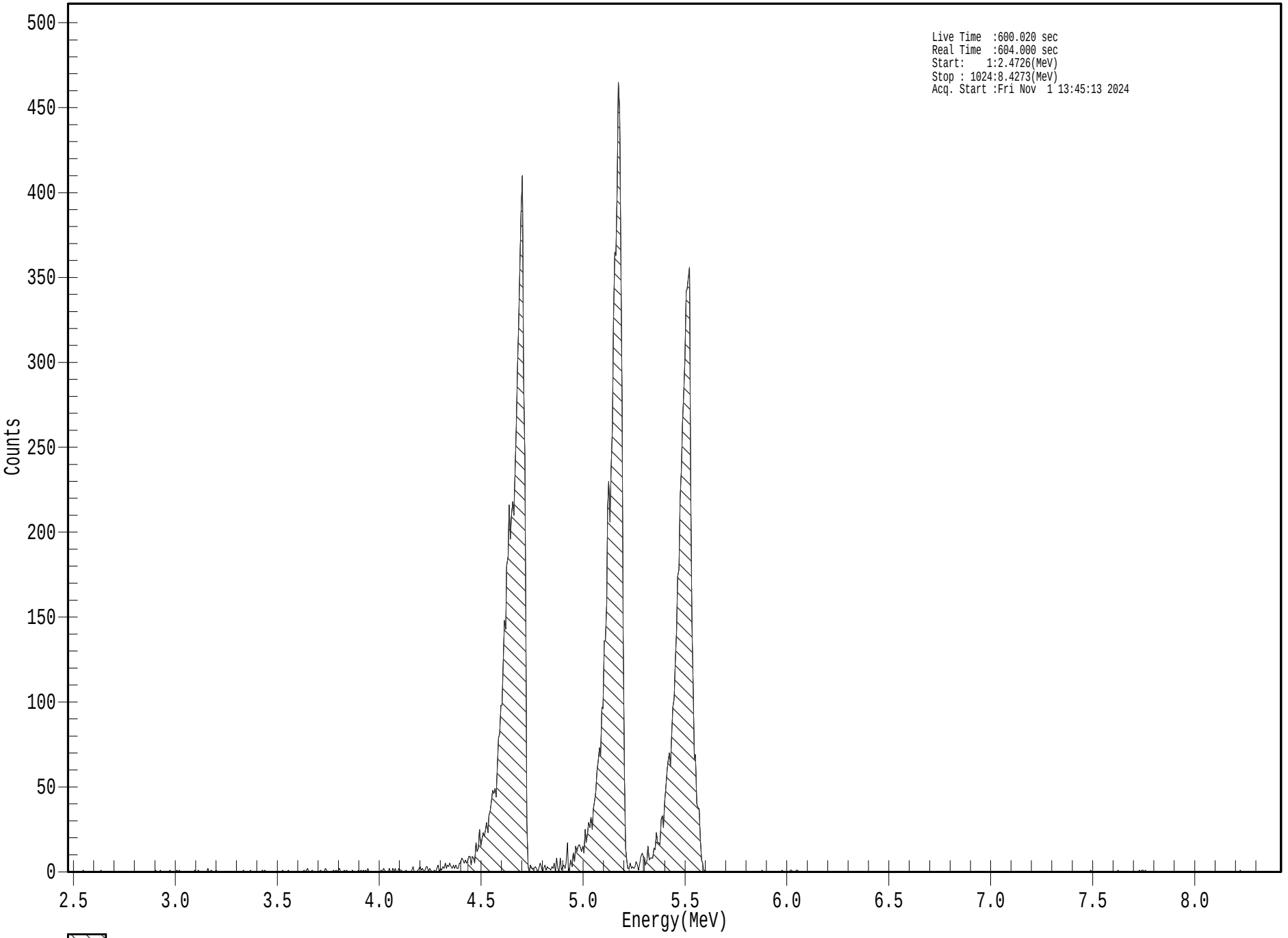
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

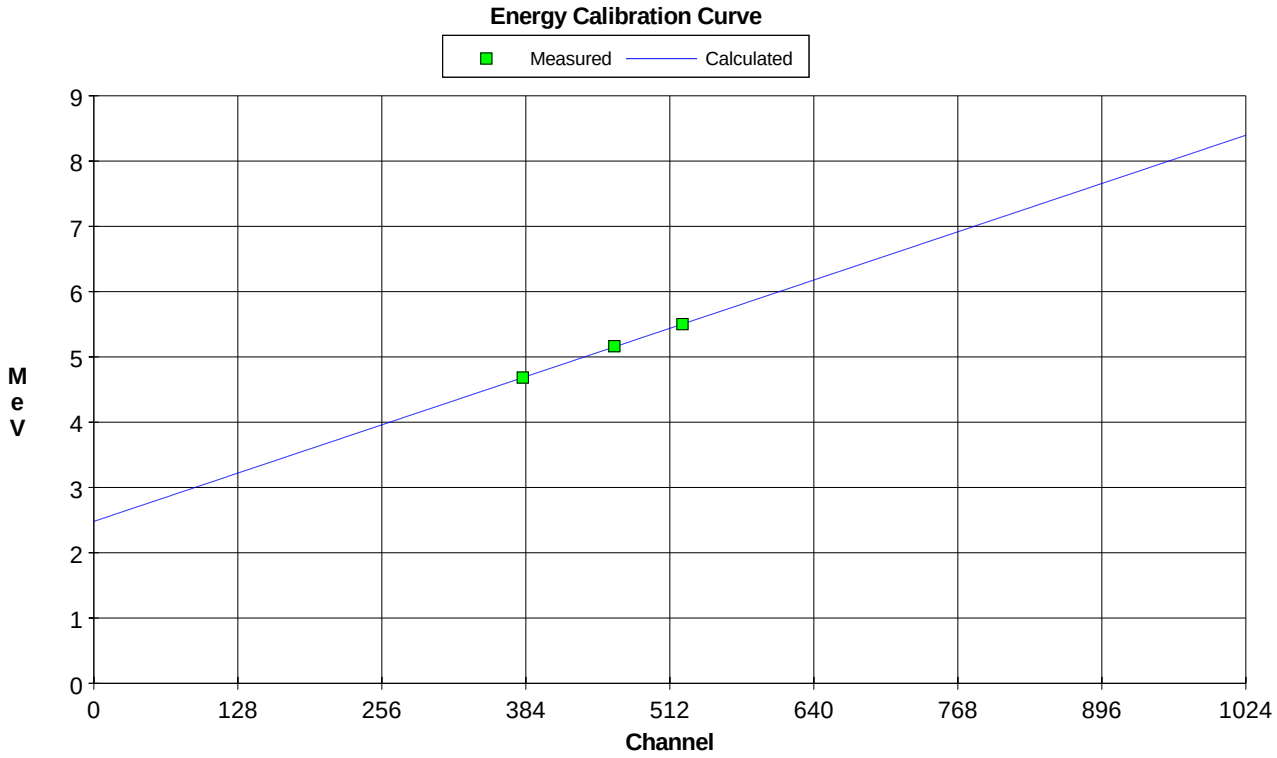
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

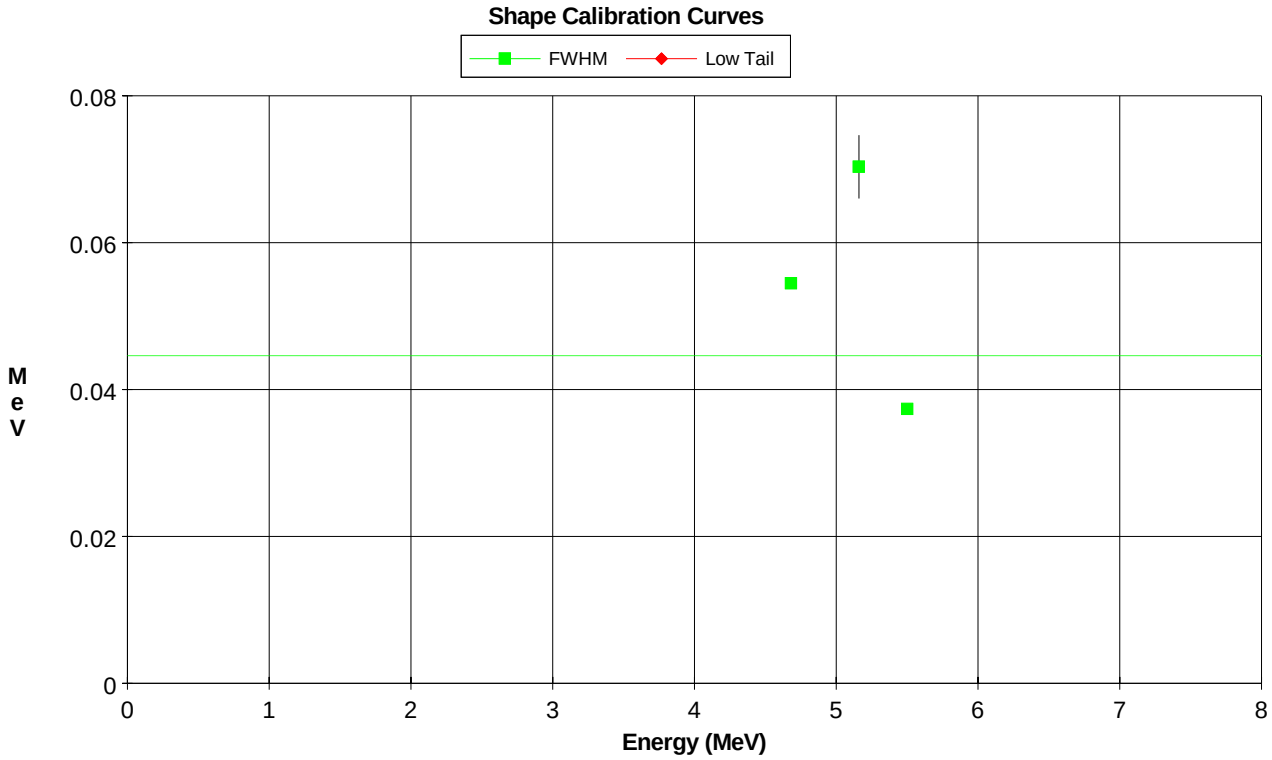
Errors quoted at 1.000 sigma

Detector A_1_6A





Datasource: A_1_6A
Energy = 2.478e+00 MeV +5.776e-03*Ch
FWHM = 4.460e-02 MeV



Datasource: A_1_6A
Energy = 2.478e+00 MeV +5.776e-03*Ch
FWHM = 4.460e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_6B
Sample Title: DET 56 SC 110124
Peak Analysis Performed on: 11/1/2024 3:03:02 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	333-	389	375.35	4681.26	73.16	5.196E+03	72.08	0.000E+00
2	419-	469	458.17	5163.12	54.62	5.302E+03	72.81	0.000E+00
3	481-	531	516.65	5503.37	59.59	4.881E+03	69.86	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 56 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.5558E+02	1.3576E+01
PU-239	1.000	5160.00*	100.00	9.7215E+02	5.0411E+01
AM-241	1.000	5485.70*	99.00	9.0399E+02	1.4868E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:03:02 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

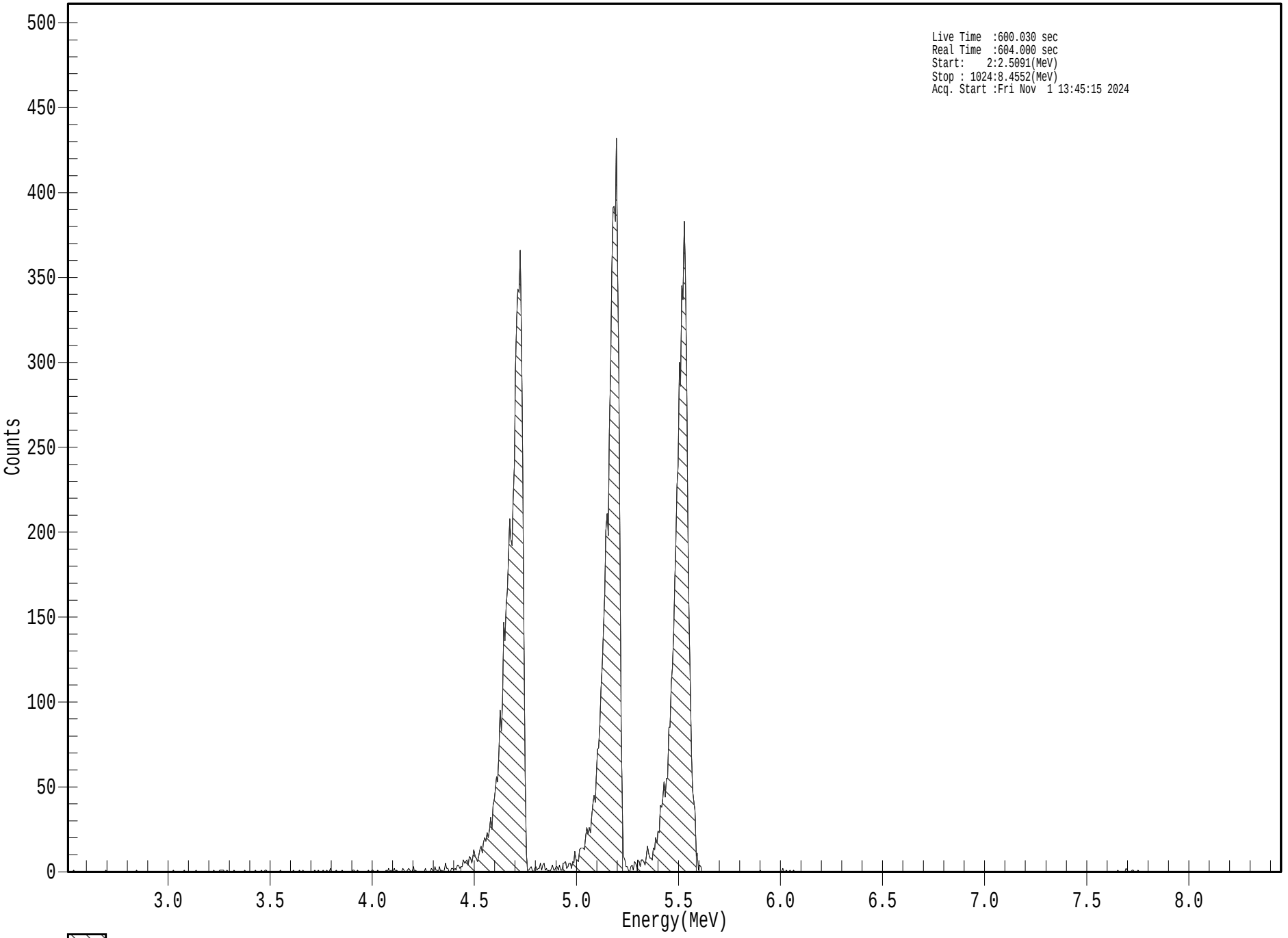
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

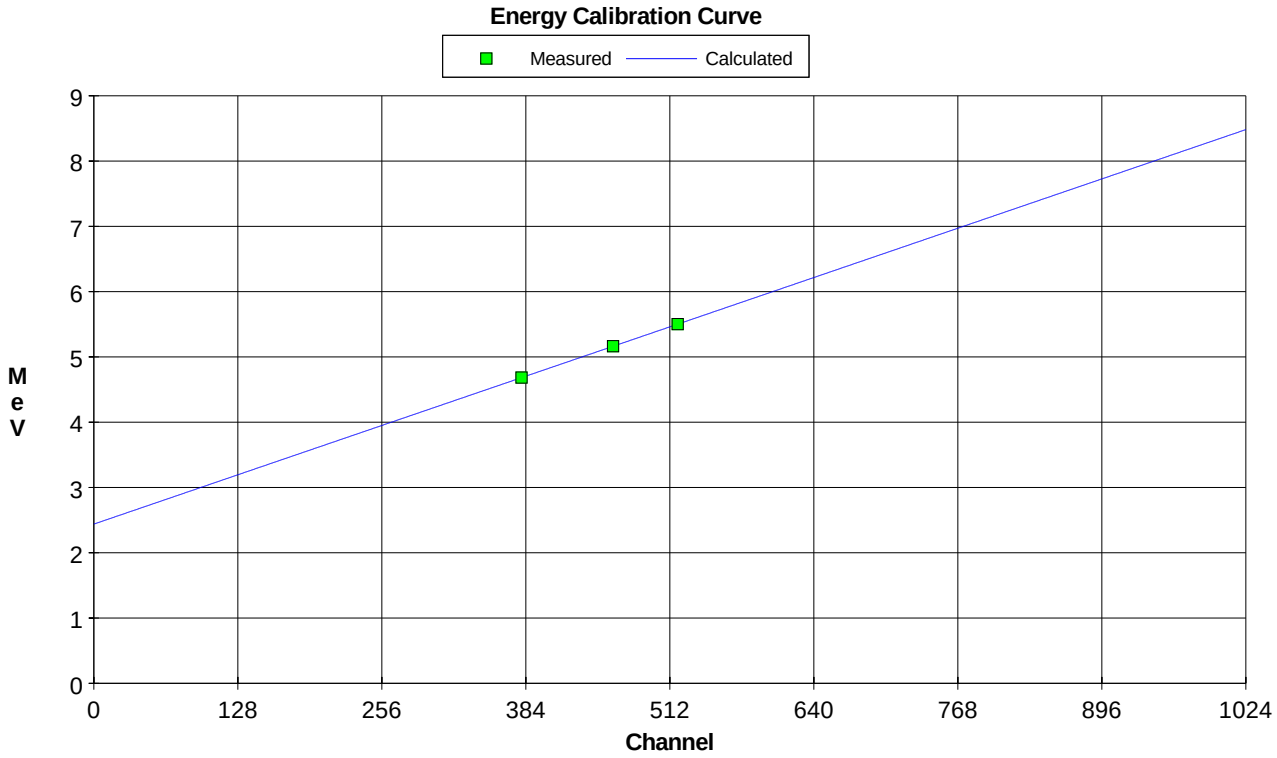
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

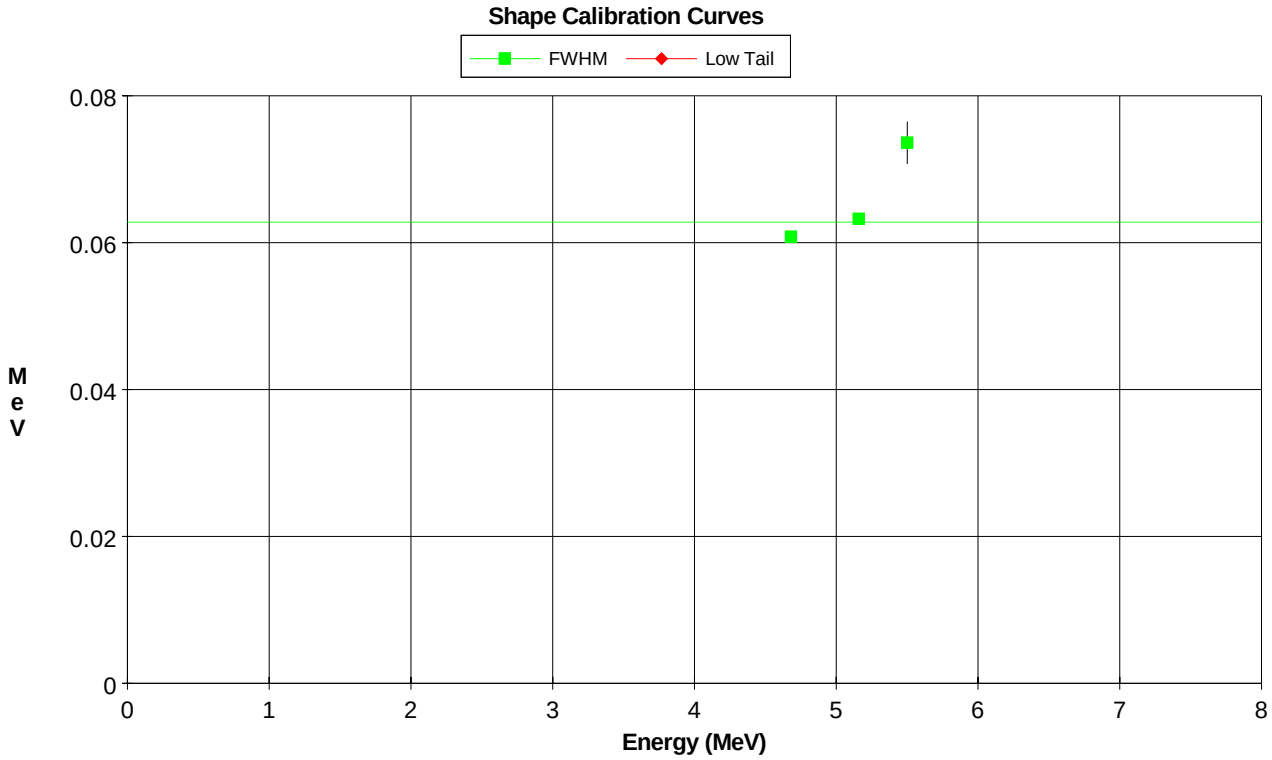
Errors quoted at 1.000 sigma

Detector A_1_6B





Datasource: A_1_6B
Energy = 2.437e+00 MeV +5.901e-03*Ch
FWHM = 6.277e-02 MeV



Datasource: A_1_6B
Energy = 2.437e+00 MeV +5.901e-03*Ch
FWHM = 6.277e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_1A
Sample Title: DET 57 SC 110124
Peak Analysis Performed on: 11/1/2024 1:45:25 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	330-	389	371.67	4664.70	63.99	5.904E+03	76.84	0.000E+00
2	420-	471	455.25	5134.55	60.04	6.066E+03	77.88	0.000E+00
3	484-	535	514.46	5467.40	58.32	5.373E+03	73.30	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 57 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.0056E+03	1.5135E+01
PU-239	1.000	5160.00*	100.00	1.0301E+03	5.3654E+01
AM-241	1.000	5485.70*	99.00	9.2164E+02	1.5950E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 1:45:24 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

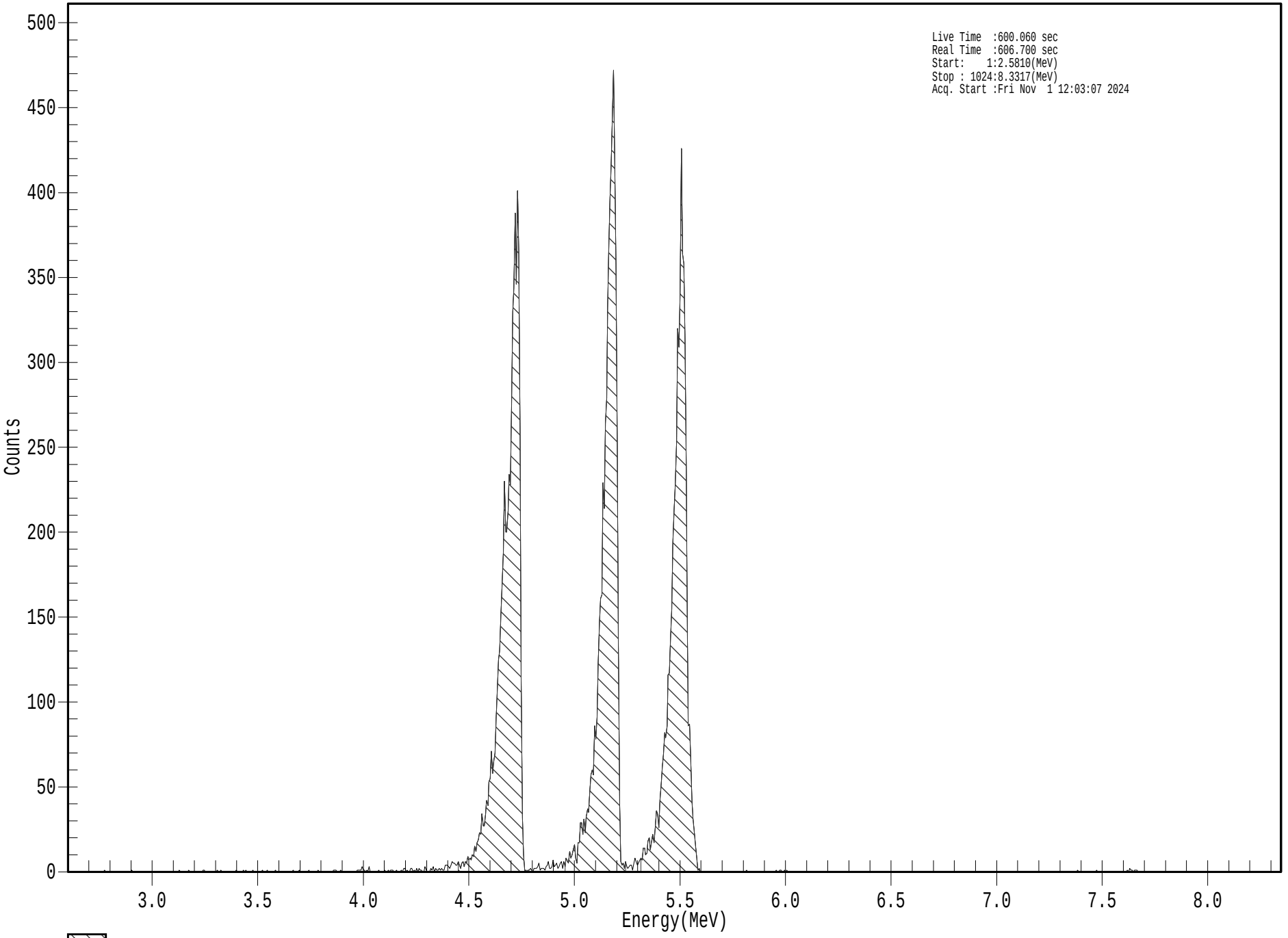
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

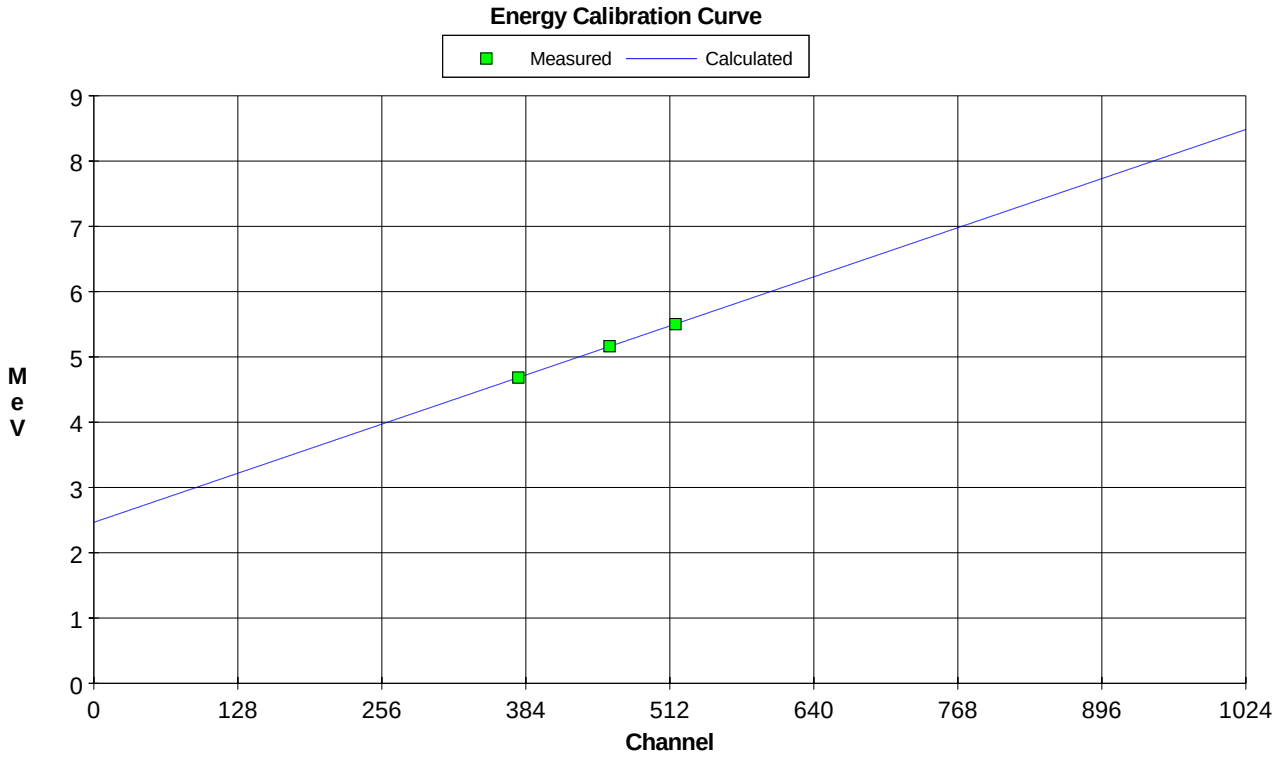
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

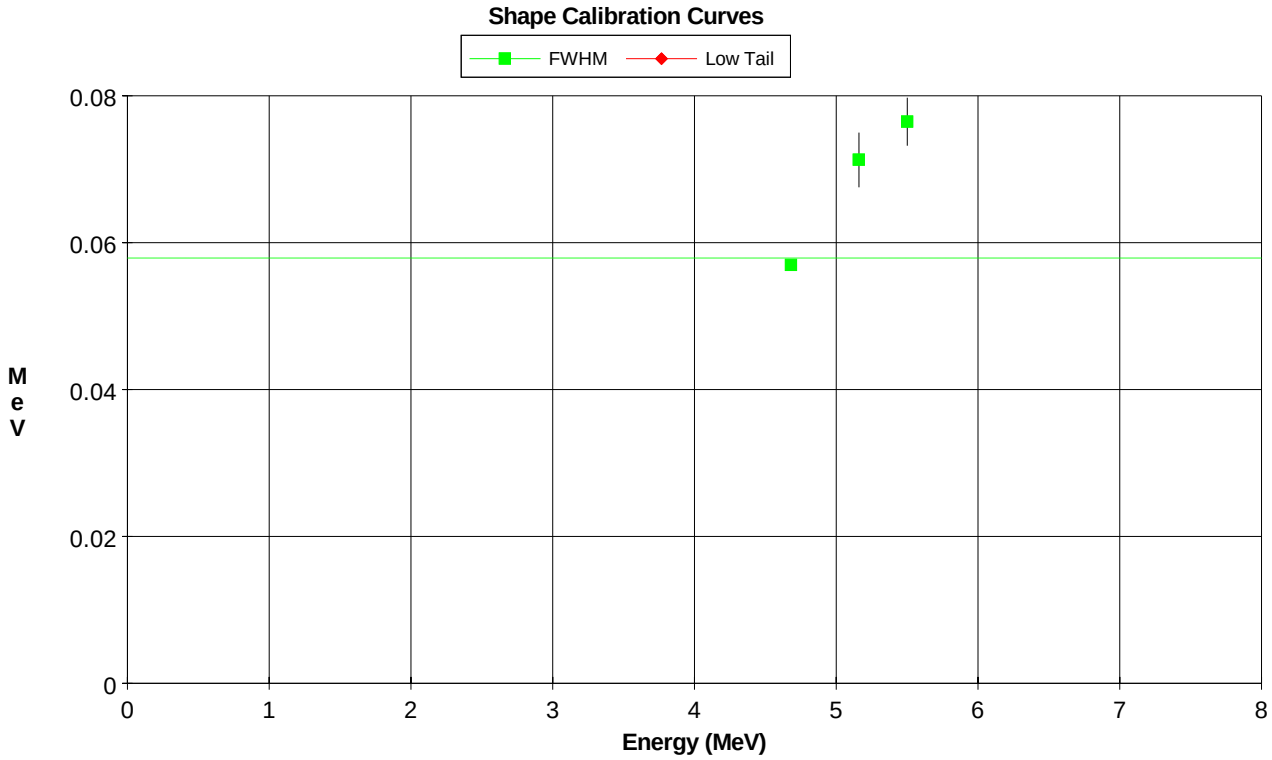
Errors quoted at 1.000 sigma

Detector A_2_1A





Datasource: A_2_1A
Energy = 2.463e+00 MeV +5.877e-03*Ch
FWHM = 5.788e-02 MeV



Datasource: A_2_1A
Energy = 2.463e+00 MeV +5.877e-03*Ch
FWHM = 5.788e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_1B
Sample Title: DET 58 SC 110124
Peak Analysis Performed on: 11/1/2024 1:45:42 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	333-	391	372.00	4654.41	85.84	6.754E+03	82.18	0.000E+00
2	422-	473	456.36	5132.61	64.43	6.430E+03	80.19	0.000E+00
3	485-	536	515.67	5468.78	69.57	5.912E+03	76.89	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 58 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.0324E+03	1.3427E+01
PU-239	1.000	5160.00*	100.00	9.7997E+02	5.0614E+01
AM-241	1.000	5485.70*	99.00	9.1013E+02	1.4288E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 1:45:42 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

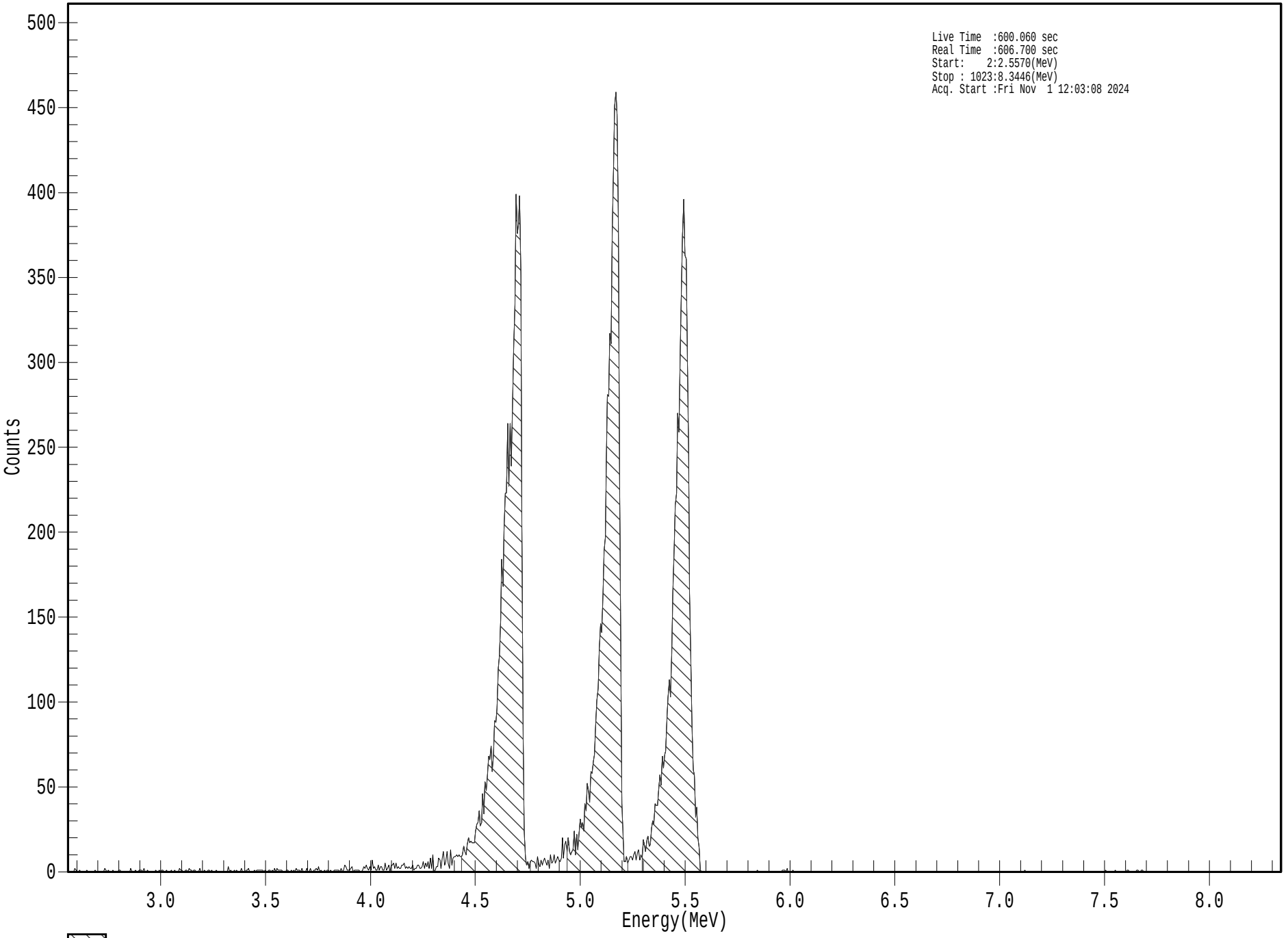
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

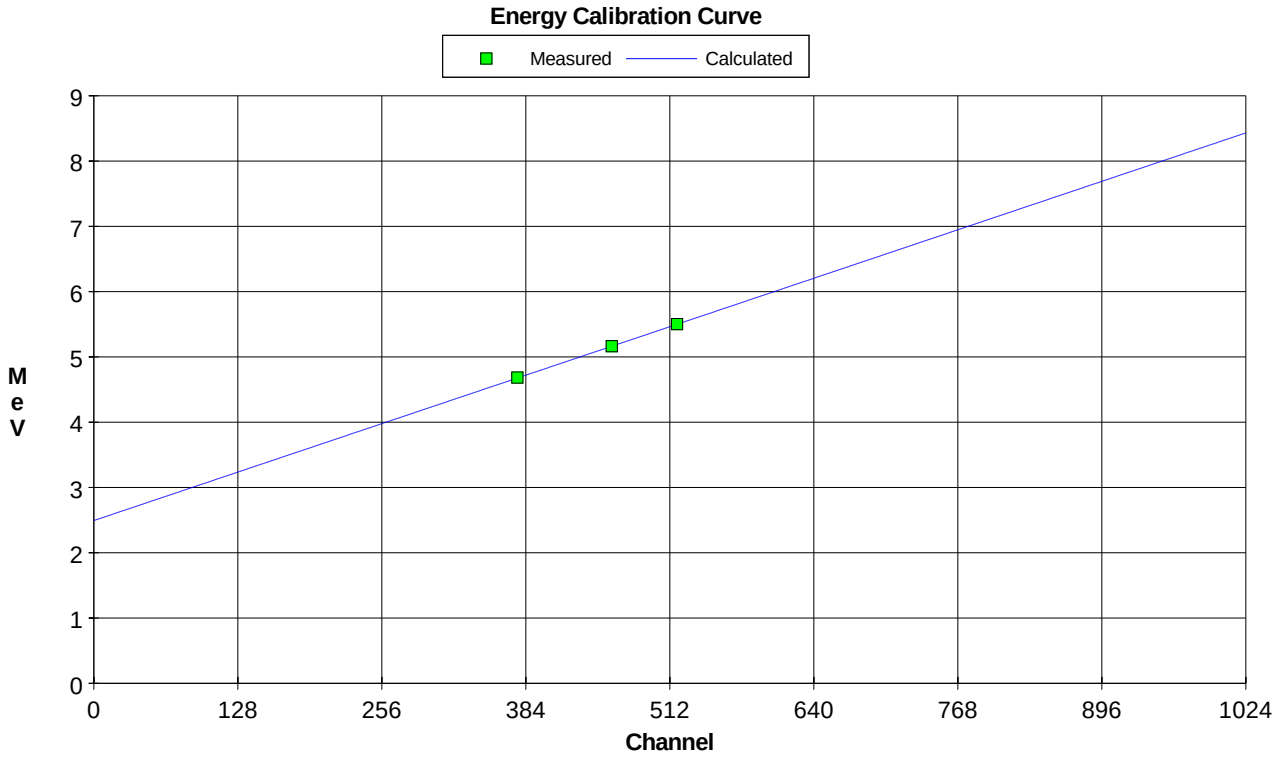
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

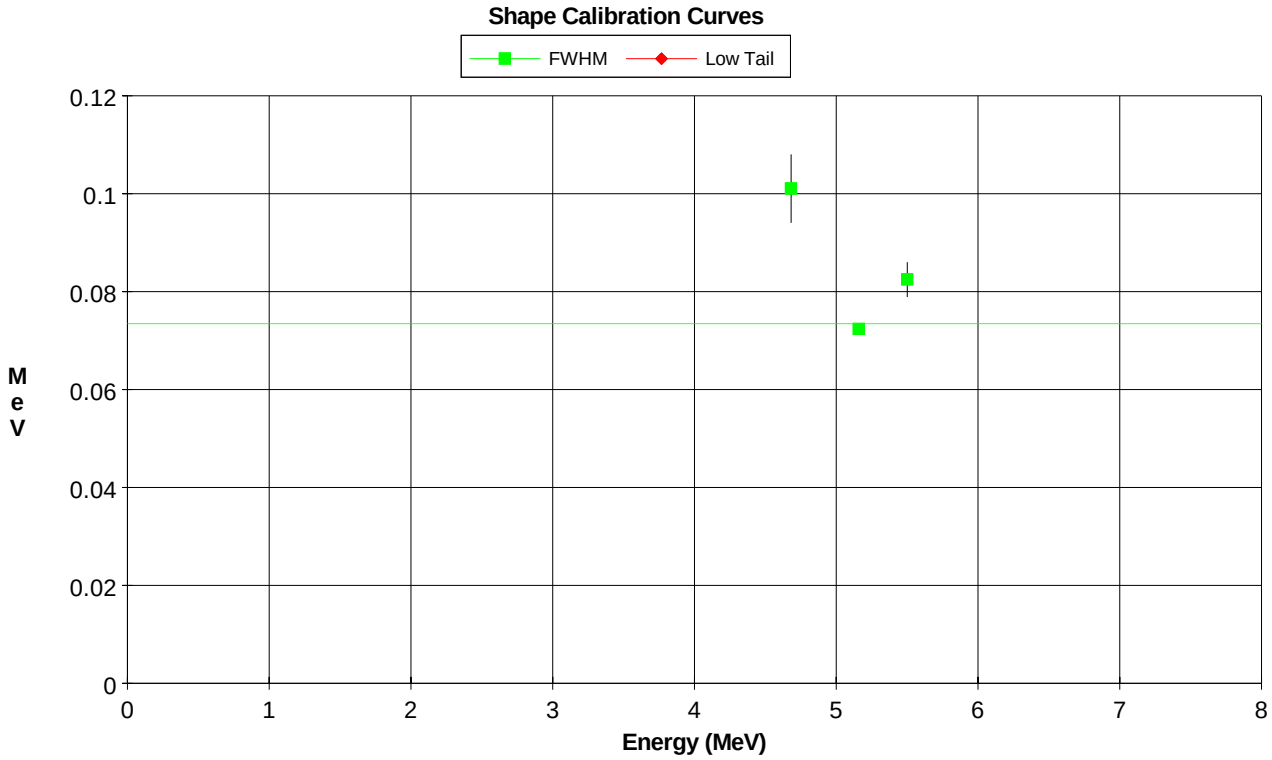
Errors quoted at 1.000 sigma

Detector A_2_1B





Datasource: A_2_1B
Energy = 2.491e+00 MeV +5.799e-03*Ch
FWHM = 7.341e-02 MeV



Datasource: A_2_1B
Energy = 2.491e+00 MeV +5.799e-03*Ch
FWHM = 7.341e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_2A
Sample Title: DET 59 SC 110124
Peak Analysis Performed on: 11/1/2024 1:45:58 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	338-	395	376.84	4655.83	73.92	5.898E+03	76.80	0.000E+00
2	426-	476	455.15	5103.02	62.10	5.655E+03	75.20	0.000E+00
3	488-	540	510.29	5417.93	55.79	5.237E+03	72.37	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 59 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.0179E+03	1.5063E+01
PU-239	0.998	5160.00*	100.00	9.7304E+02	5.0722E+01
AM-241	0.997	5485.70*	99.00	9.1022E+02	1.5677E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 1:45:58 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

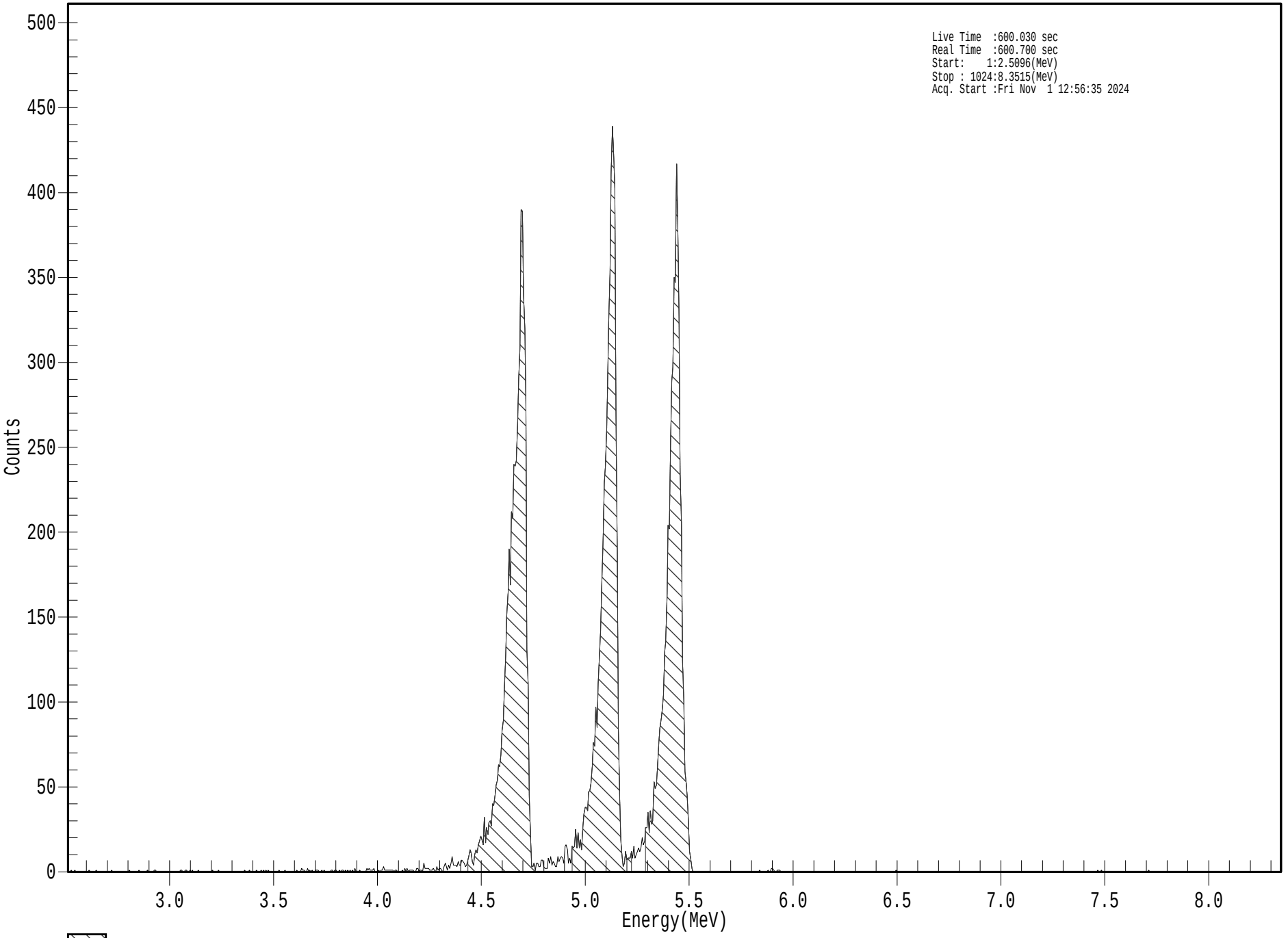
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

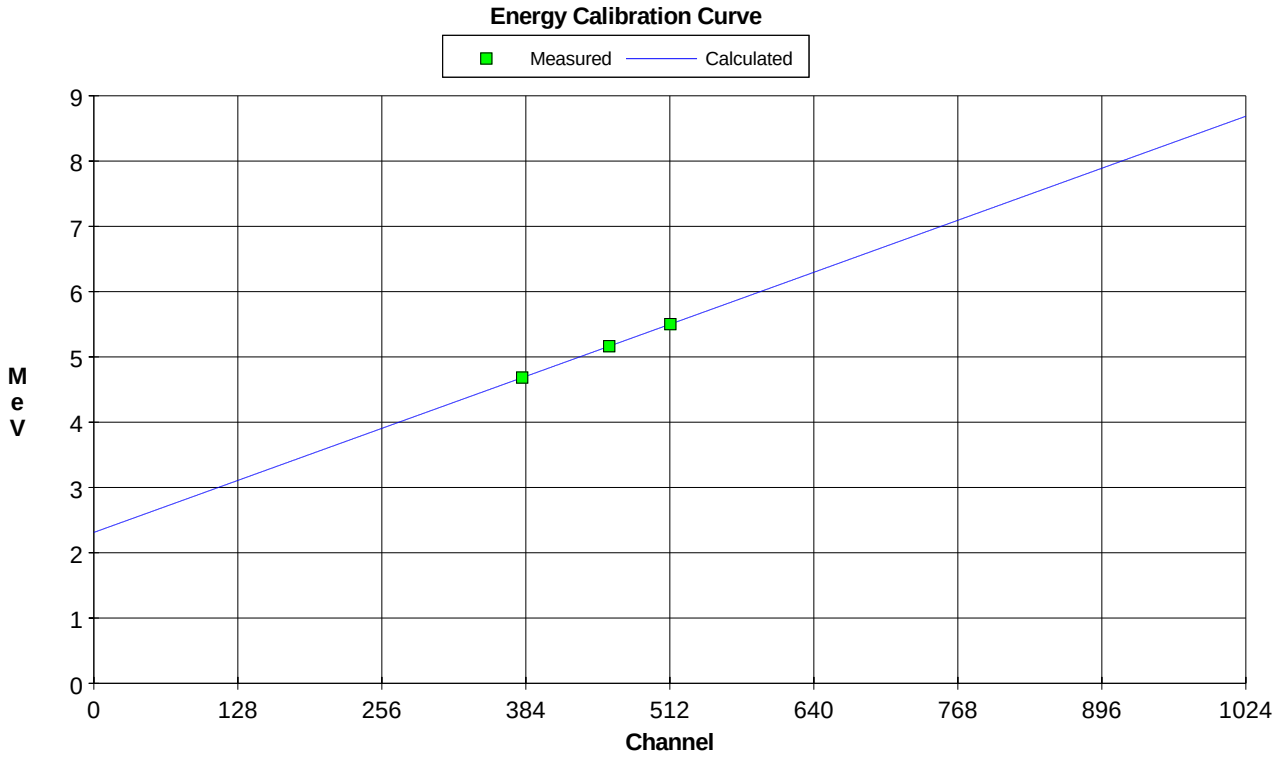
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

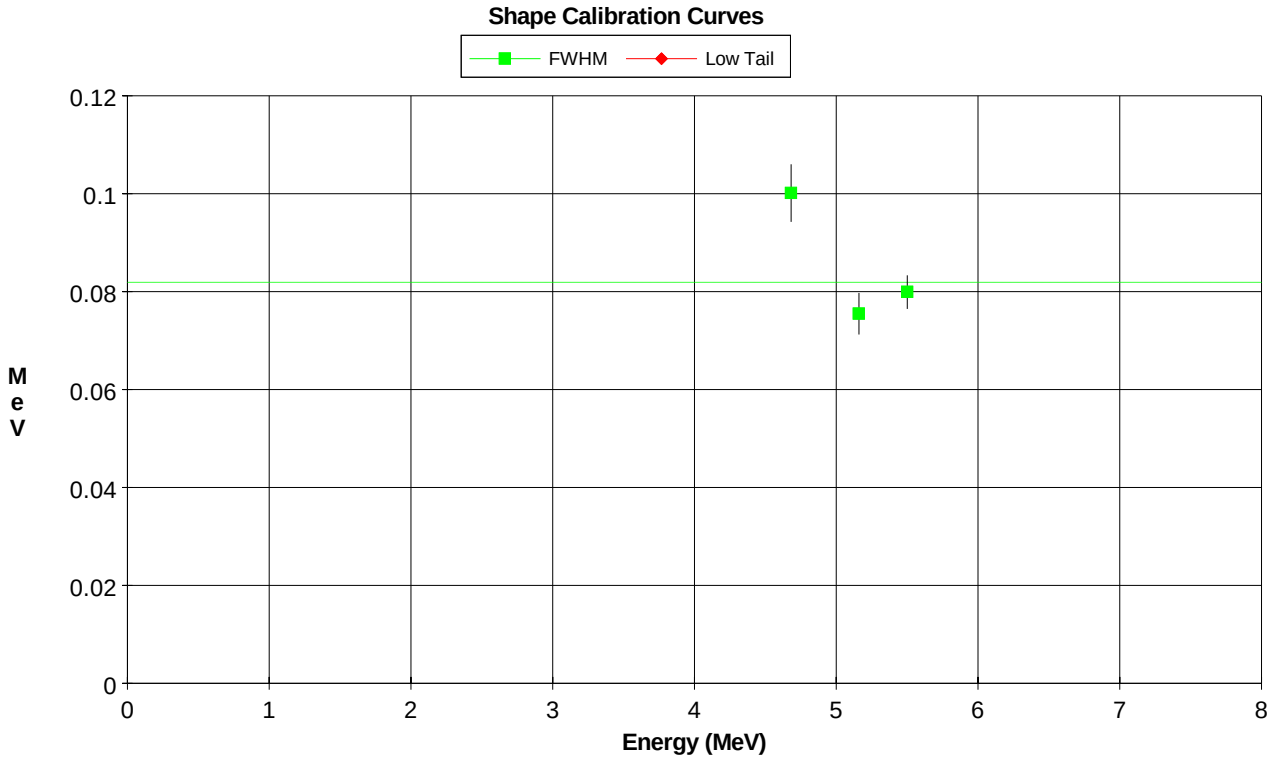
Errors quoted at 1.000 sigma

Detector A_2_2A





Datasource: A_2_2A
Energy = 2.309e+00 MeV +6.226e-03*Ch
FWHM = 8.187e-02 MeV



Datasource: A_2_2A
Energy = 2.309e+00 MeV +6.226e-03*Ch
FWHM = 8.187e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_3A
Sample Title: DET 61 SC 110124
Peak Analysis Performed on: 11/1/2024 1:46:13 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	332-	390	372.08	4659.74	61.51	5.897E+03	76.79	0.000E+00
2	421-	472	455.82	5133.62	59.81	6.089E+03	78.03	0.000E+00
3	484-	536	514.78	5467.31	63.13	5.641E+03	75.11	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 61 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.0630E+03	1.4327E+01
PU-239	1.000	5160.00*	100.00	1.0944E+03	5.6519E+01
AM-241	1.000	5485.70*	99.00	1.0241E+03	1.6048E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 1:46:13 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

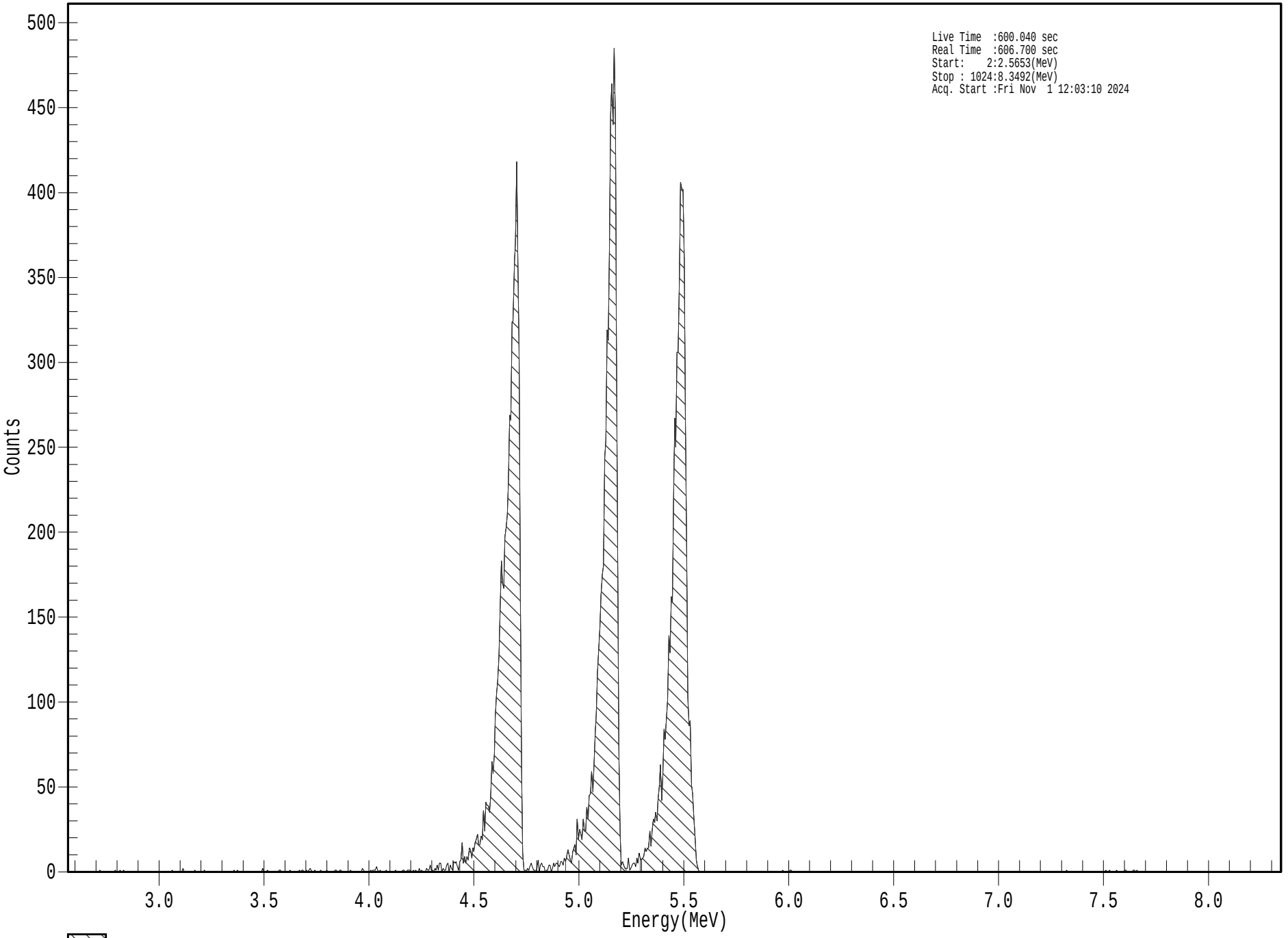
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

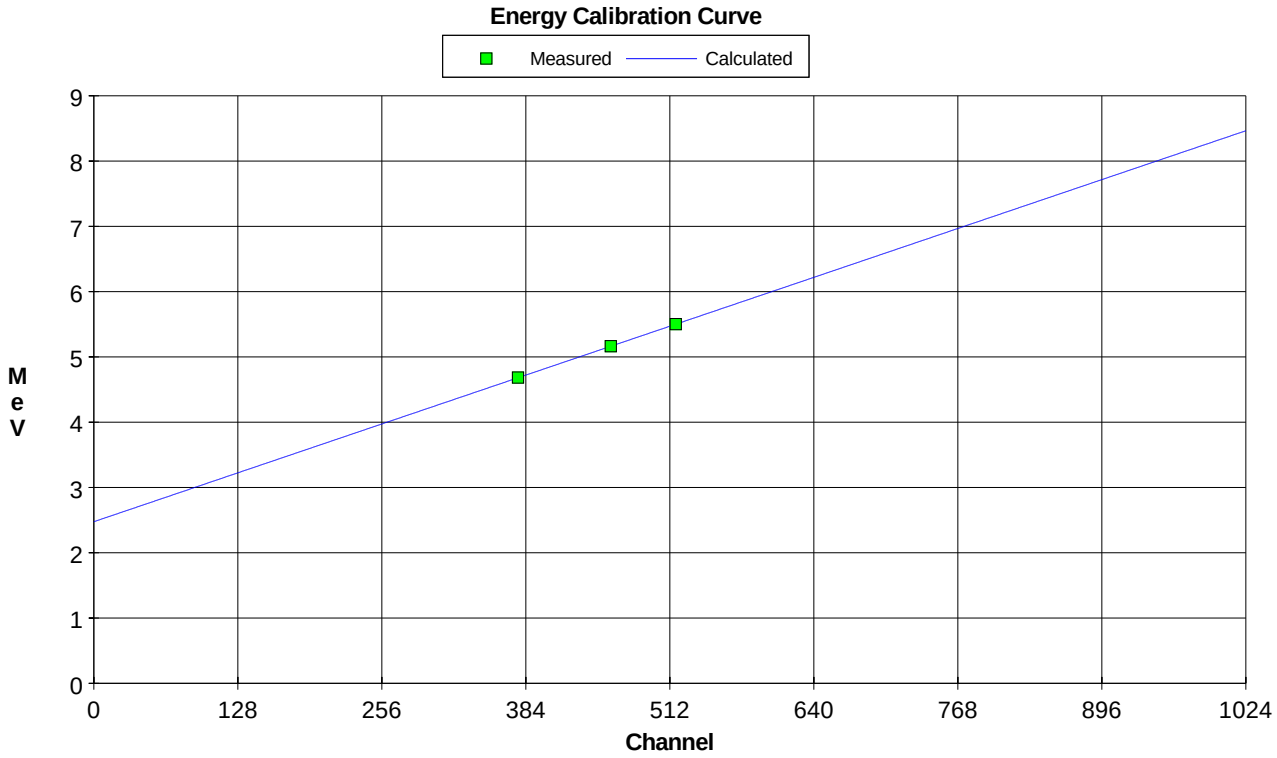
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

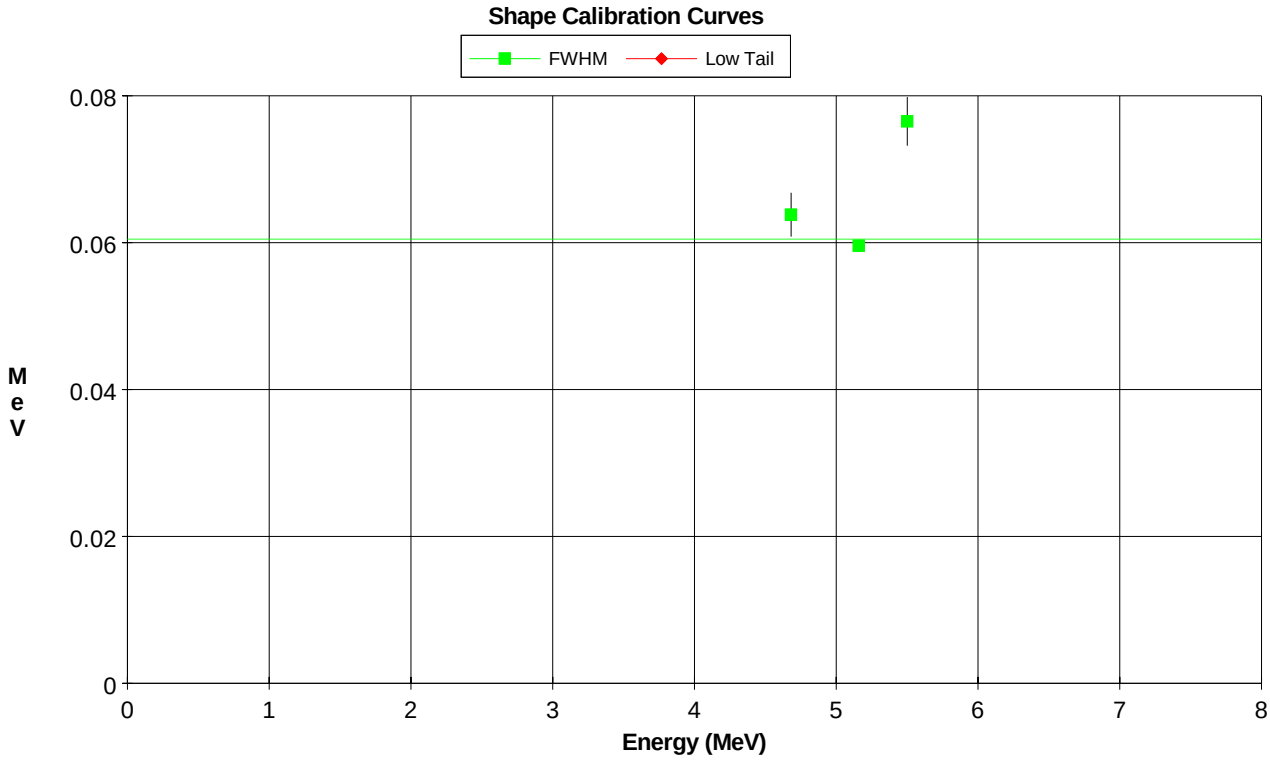
Errors quoted at 1.000 sigma

Detector A_2_3A





Datasource: A_2_3A
Energy = 2.473e+00 MeV +5.849e-03*Ch
FWHM = 6.045e-02 MeV



Datasource: A_2_3A
Energy = 2.473e+00 MeV +5.849e-03*Ch
FWHM = 6.045e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: A_2_3B

Report Generated On : 2/18/2025 3:10:32 PM

Sample Title : DET 62 SC 021825
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 2/18/2025 2:19:25 PM

Live Time : 600.0 seconds
Real Time : 601.3 seconds

Dead Time : 0.21 %

Energy Calibration Used Done On : 2/18/2025
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

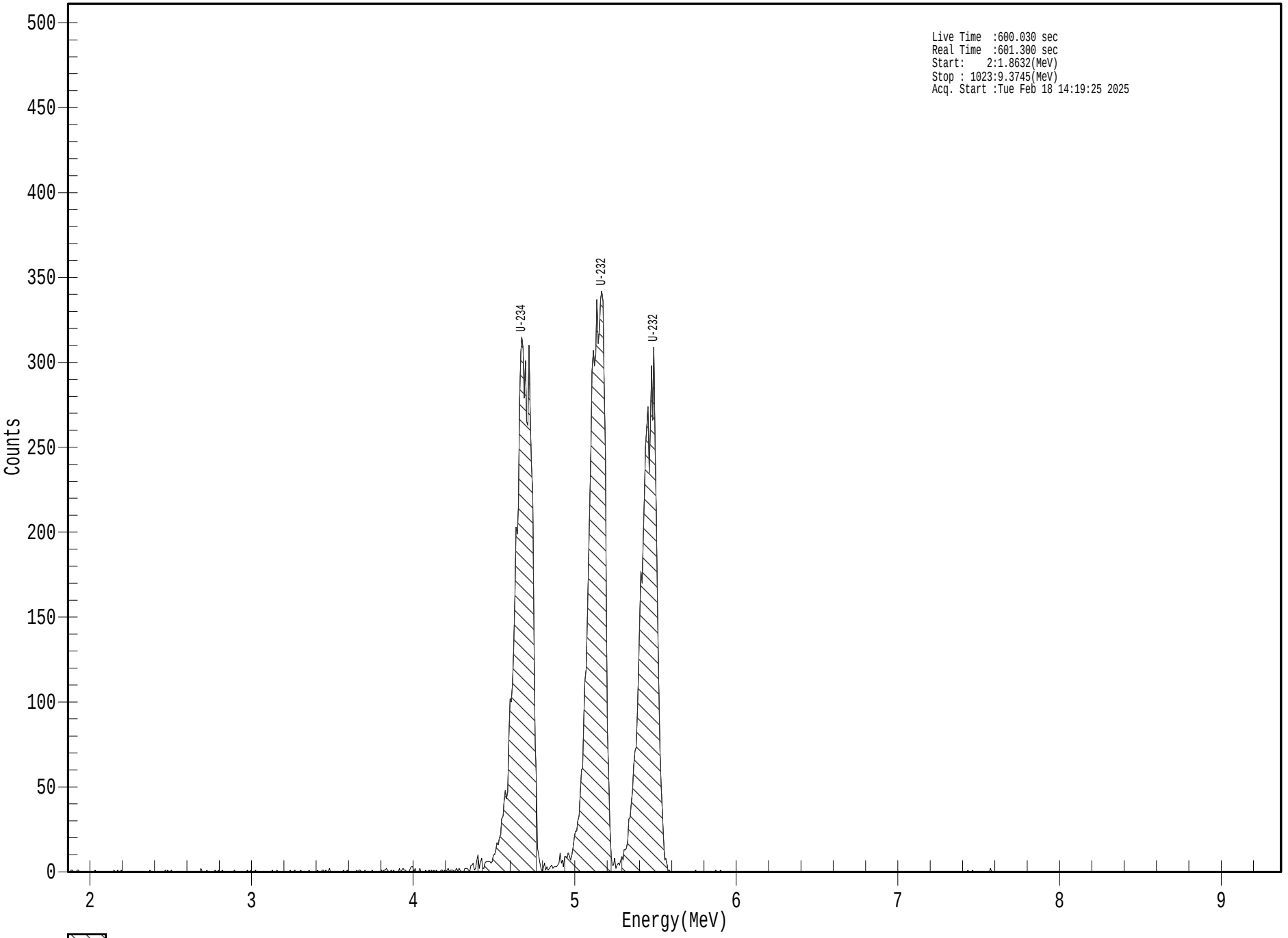
Detector Name: A_2_3B
Sample Title: DET 62 SC 021825
Peak Analysis Performed on: 2/18/2025 3:10:32 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

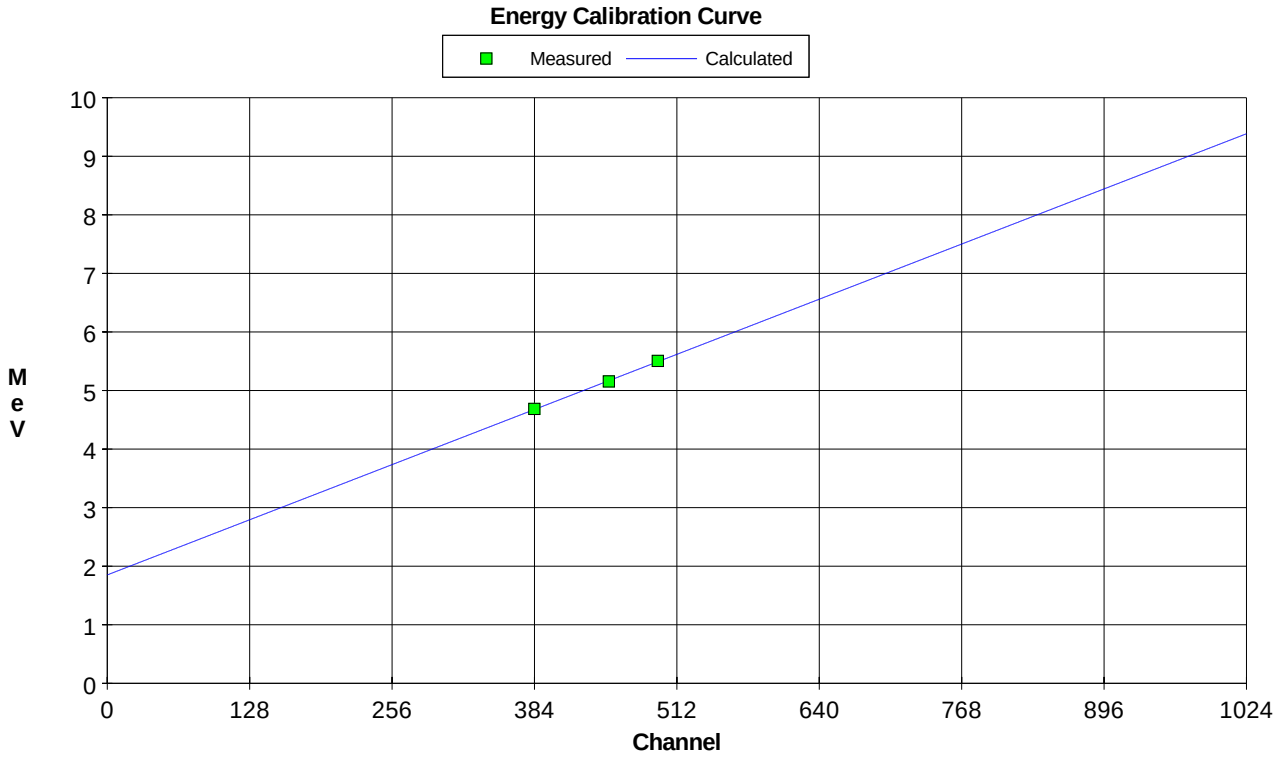
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	351-	396	383.81	4672.12	118.13	5.333E+03	73.03	0.000E+00
2	420-	459	445.94	5129.19	111.45	5.544E+03	74.46	0.000E+00
3	468-	508	489.78	5451.69	108.94	4.644E+03	68.15	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

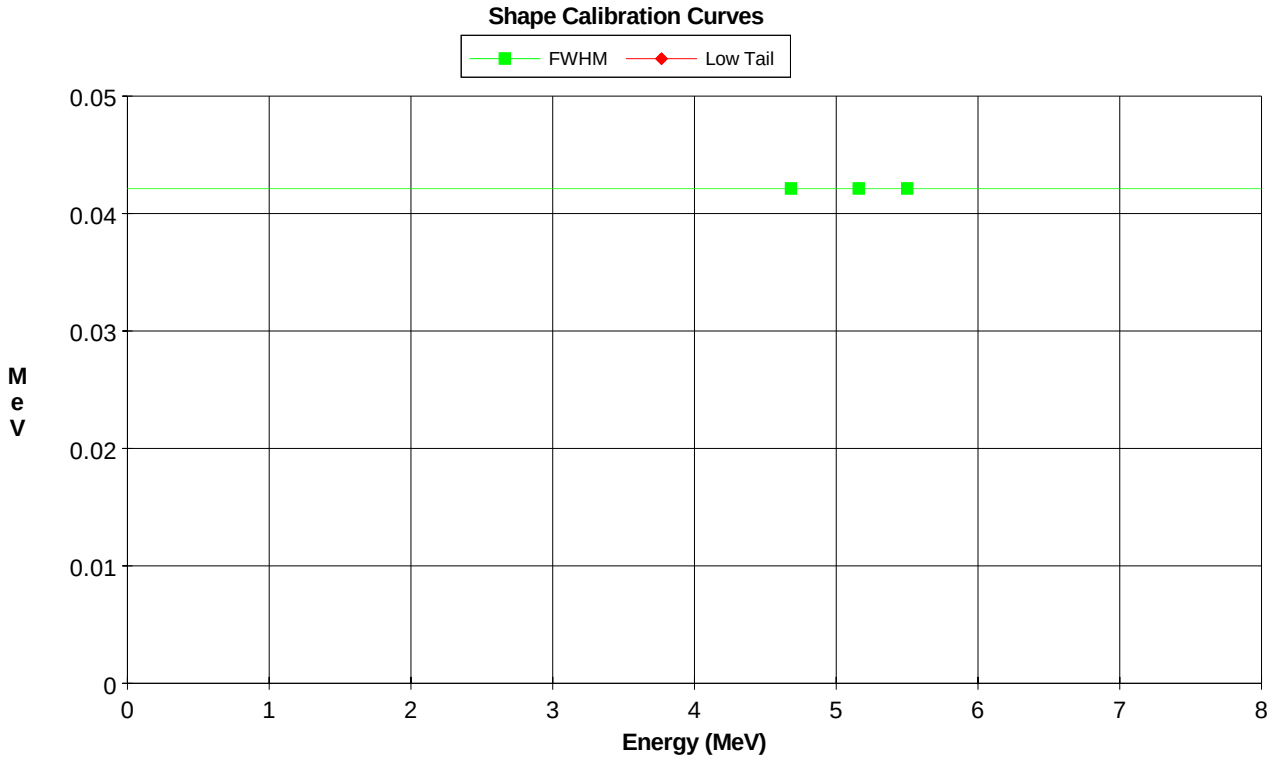
Errors quoted at 1.000 sigma

Detector A_2_3B





Datasource: A_2_3B
Energy = 1.848e+00 MeV +7.357e-03*Ch
FWHM = 6.964e-02 MeV



Datasource: O:\alpha_sp\2025_Source_Checks\66\2_Feburary\66021825.CNF
Energy = 1.853e+00 MeV +7.198e-03*Ch
FWHM = 4.210e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_5A
Sample Title: DET 65 SC 110124
Peak Analysis Performed on: 11/1/2024 1:46:43 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	335-	392	373.48	4653.32	66.77	6.037E+03	77.70	0.000E+00
2	423-	472	457.21	5137.62	56.53	5.640E+03	75.10	0.000E+00
3	484-	535	516.55	5480.89	62.30	5.367E+03	73.26	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 65 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.0585E+03	1.4202E+01
PU-239	1.000	5160.00*	100.00	9.8592E+02	5.1065E+01
AM-241	1.000	5485.70*	99.00	9.4767E+02	1.5191E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 1:46:43 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

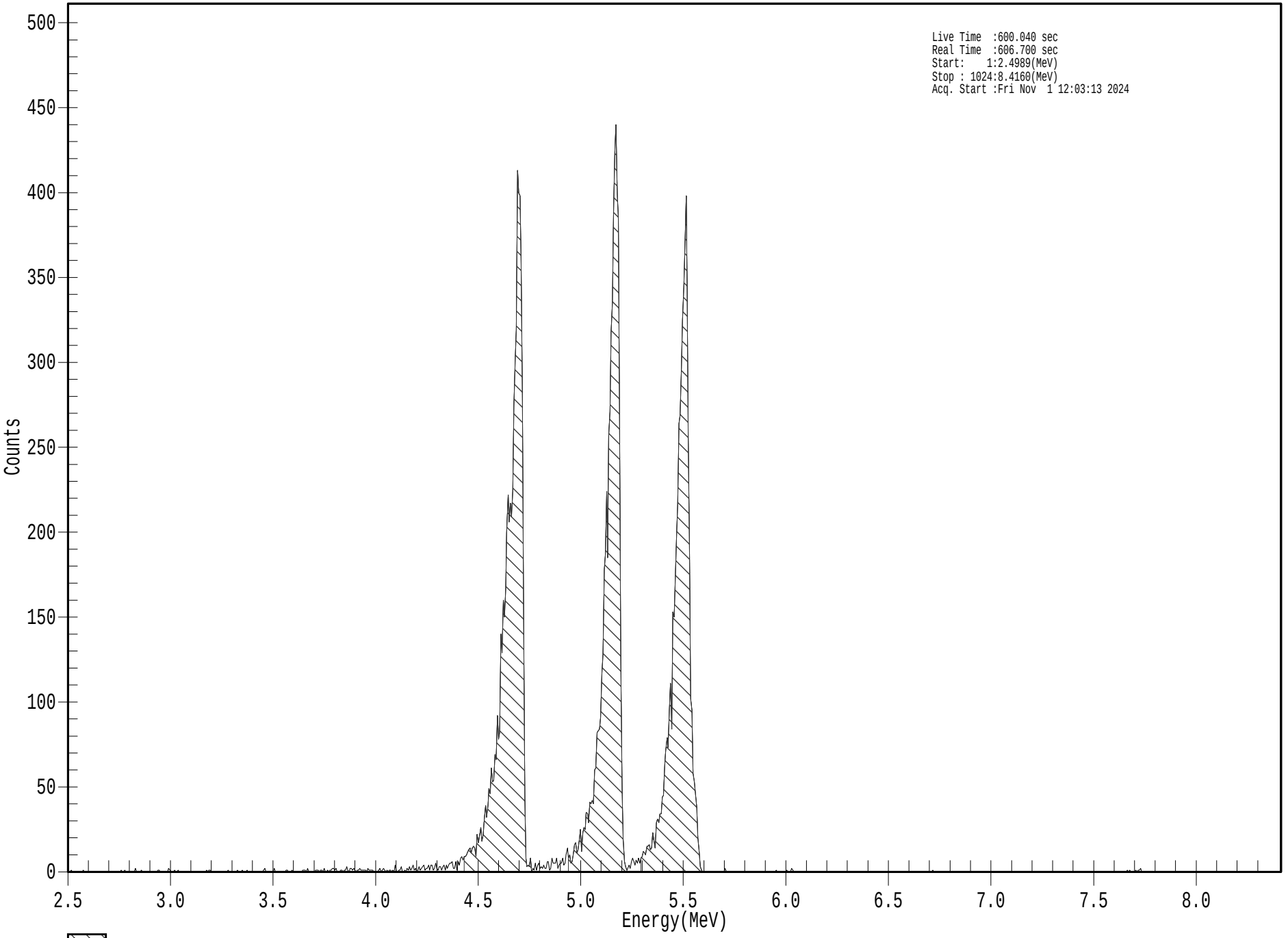
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

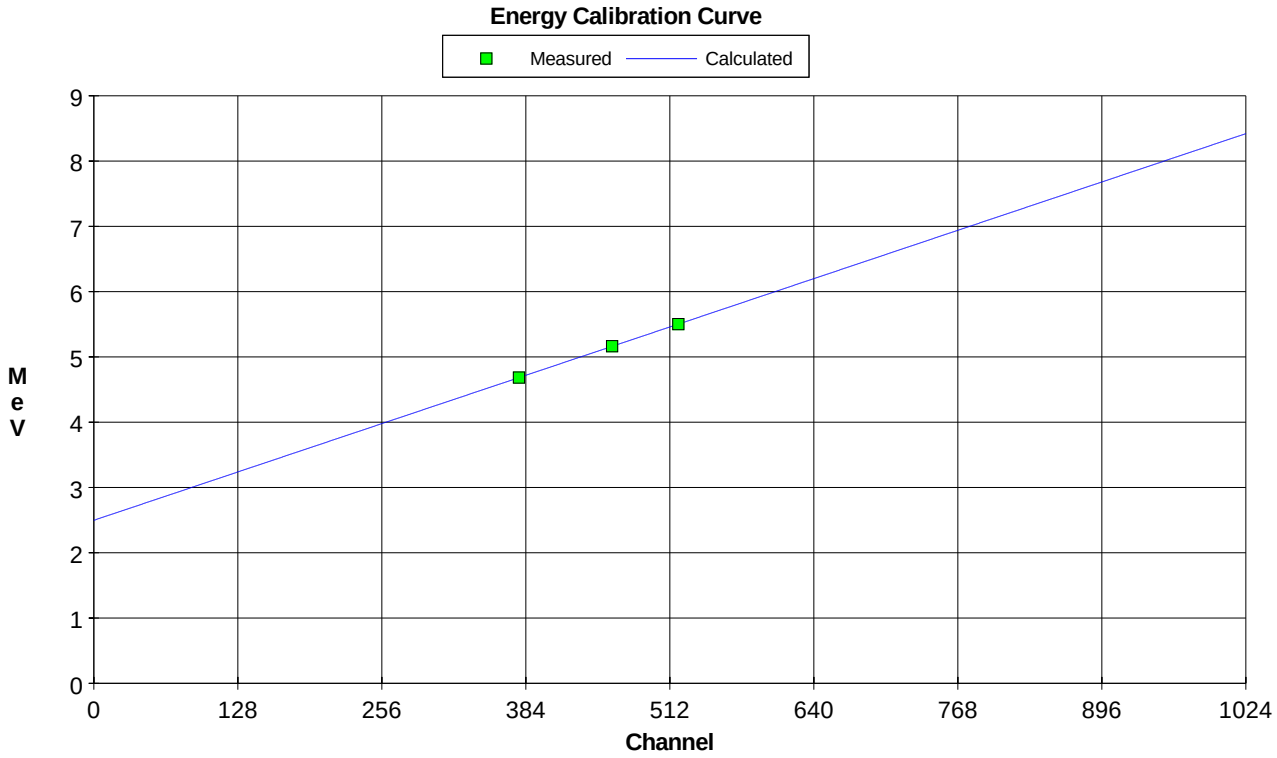
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

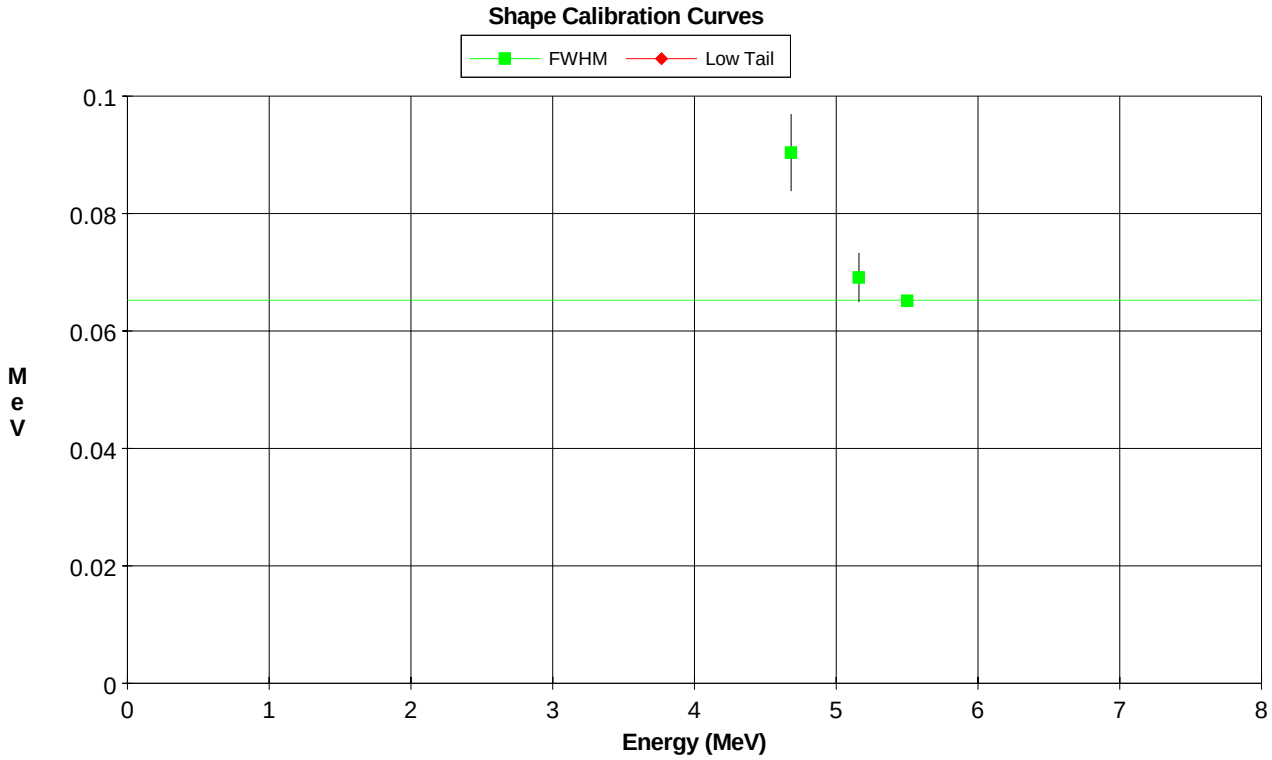
Errors quoted at 1.000 sigma

Detector A_2_5A





Datasource: A_2_5A
Energy = 2.495e+00 MeV +5.784e-03*Ch
FWHM = 6.519e-02 MeV



Datasource: A_2_5A
Energy = 2.495e+00 MeV +5.784e-03*Ch
FWHM = 6.519e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_5B
Sample Title: DET 66 SC 110124
Peak Analysis Performed on: 11/1/2024 1:46:57 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	394	371.84	4628.65	82.24	6.097E+03	78.08	0.000E+00
2	424-	472	455.41	5124.10	59.57	6.043E+03	77.74	0.000E+00
3	484-	533	514.34	5473.49	69.32	5.392E+03	73.43	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 66 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.998	4687.60*	99.70	1.0863E+03	1.7114E+01
PU-239	0.999	5160.00*	100.00	1.0734E+03	5.6194E+01
AM-241	1.000	5485.70*	99.00	9.6744E+02	1.7466E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 1:46:57 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

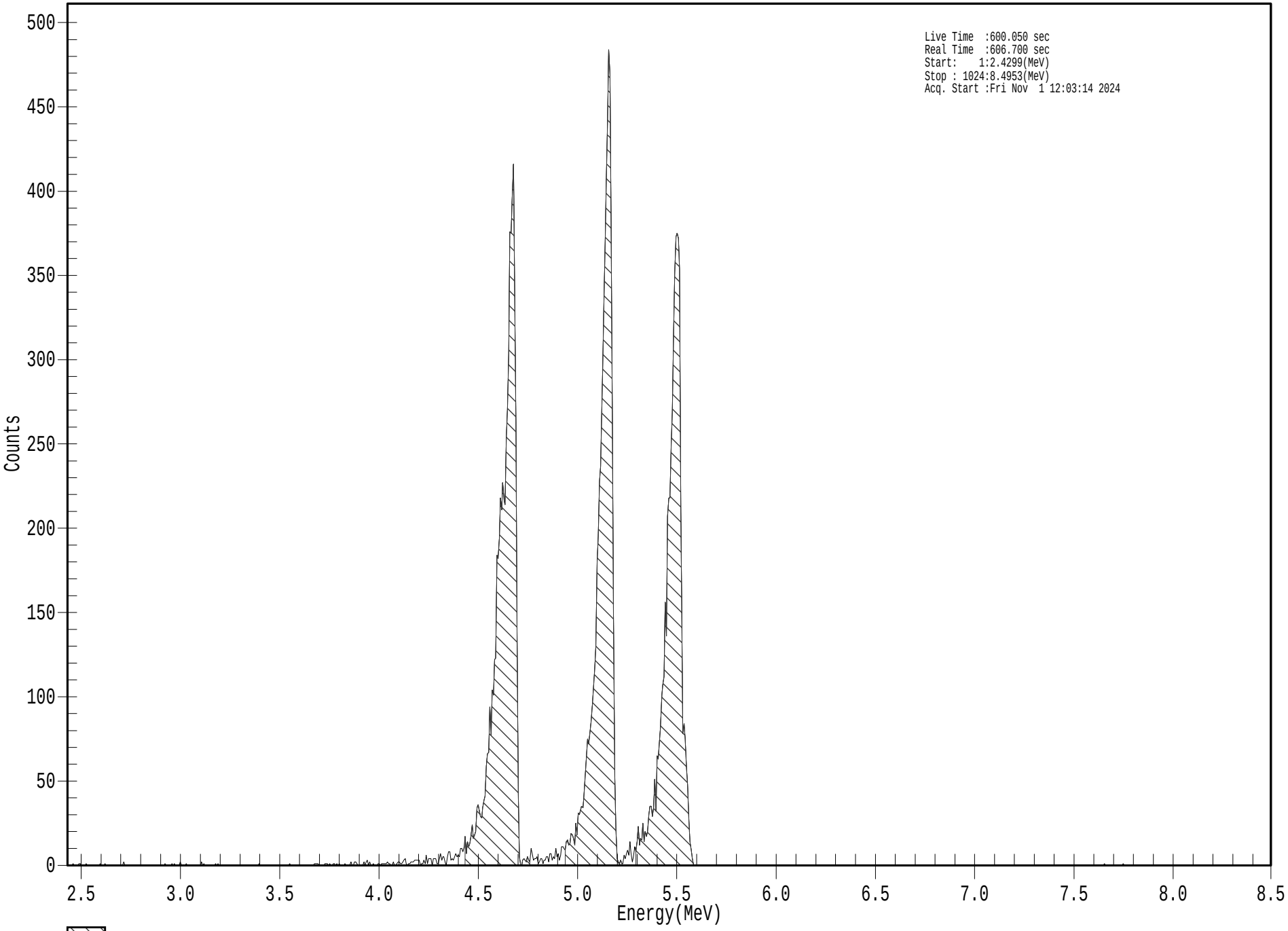
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

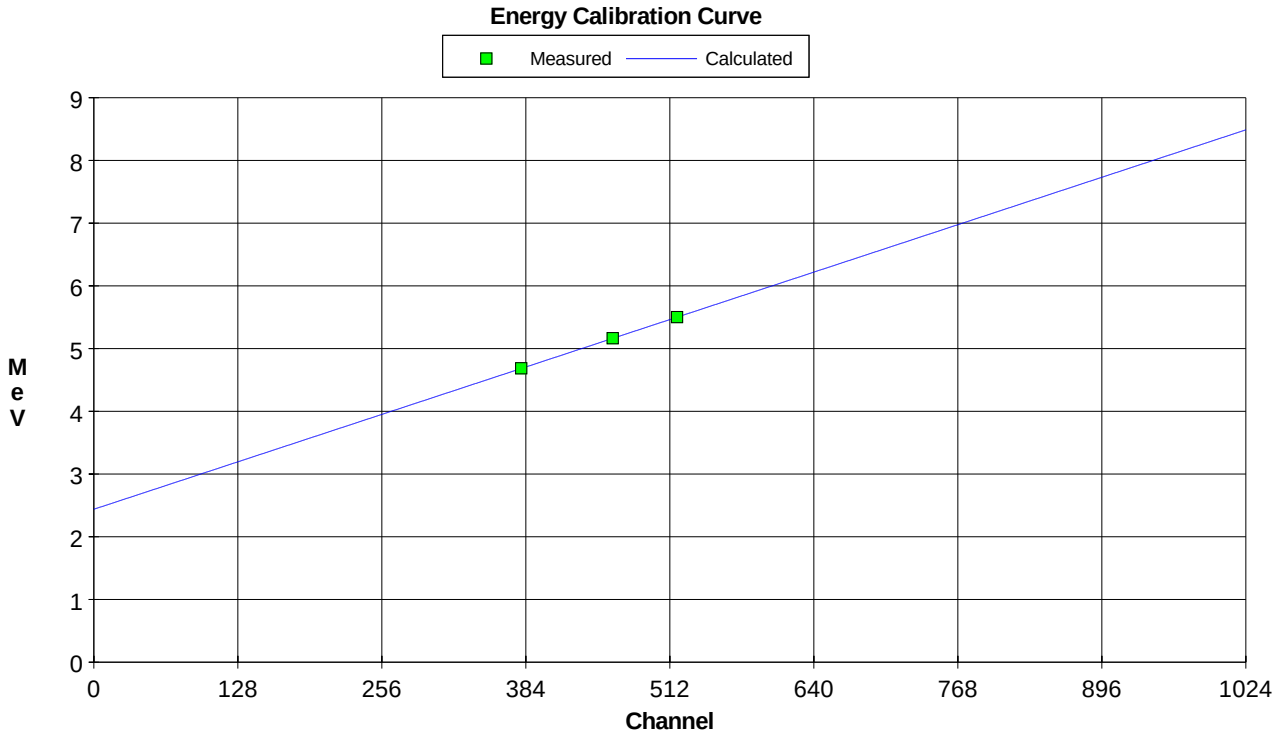
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

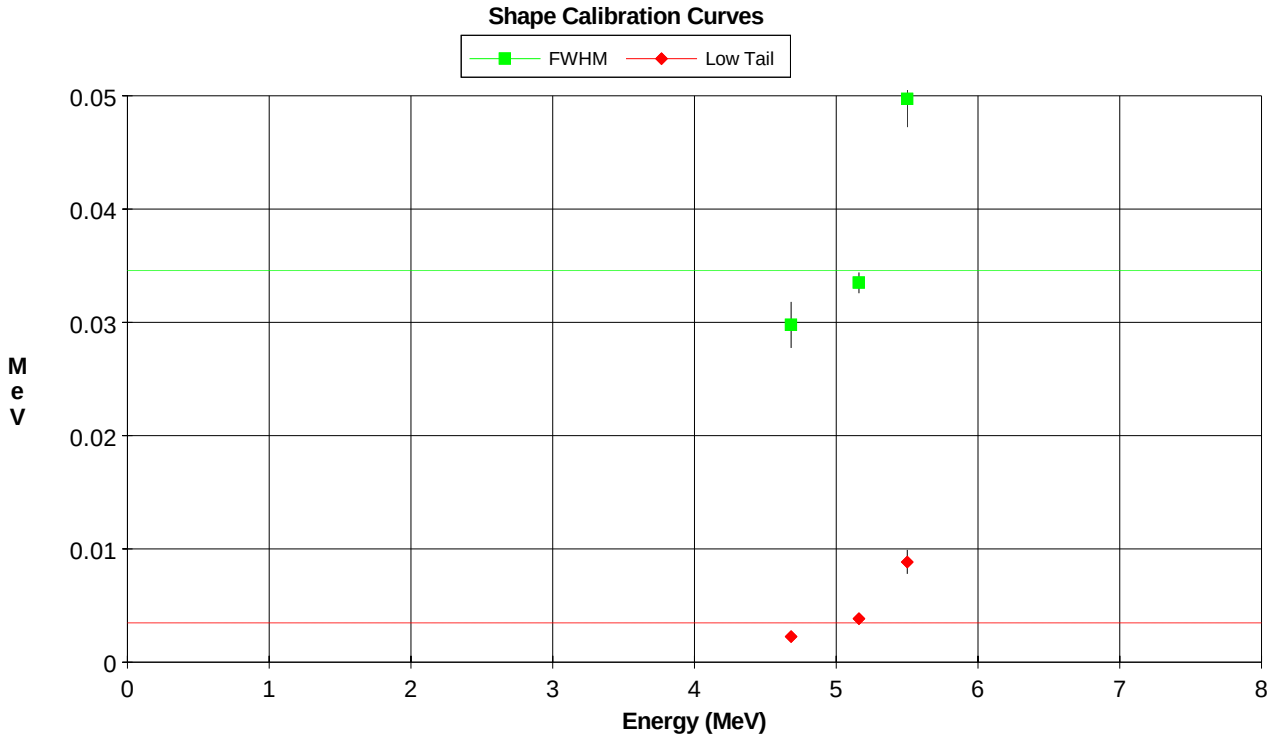
Errors quoted at 1.000 sigma

Detector A_2_5B





Datasource: A_2_5B
Energy = 2.436e+00 MeV +5.907e-03*Ch
FWHM = 3.455e-02 MeV
Lo Tail = 3.464e-03 MeV



Datasource: A_2_5B
Energy = 2.436e+00 MeV +5.907e-03*Ch
FWHM = 3.455e-02 MeV
Lo Tail = 3.464e-03 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Calibrations\021825\67\67.CNF

Report Generated On : 2/20/2025 1:01:47 PM

Sample Title : DET 67 SC 021825
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 2/18/2025 2:20:50 PM

Live Time : 600.1 seconds
Real Time : 601.0 seconds

Dead Time : 0.15 %

Energy Calibration Used Done On : 2/18/2025
Efficiency Calibration Used Done On : 2/18/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

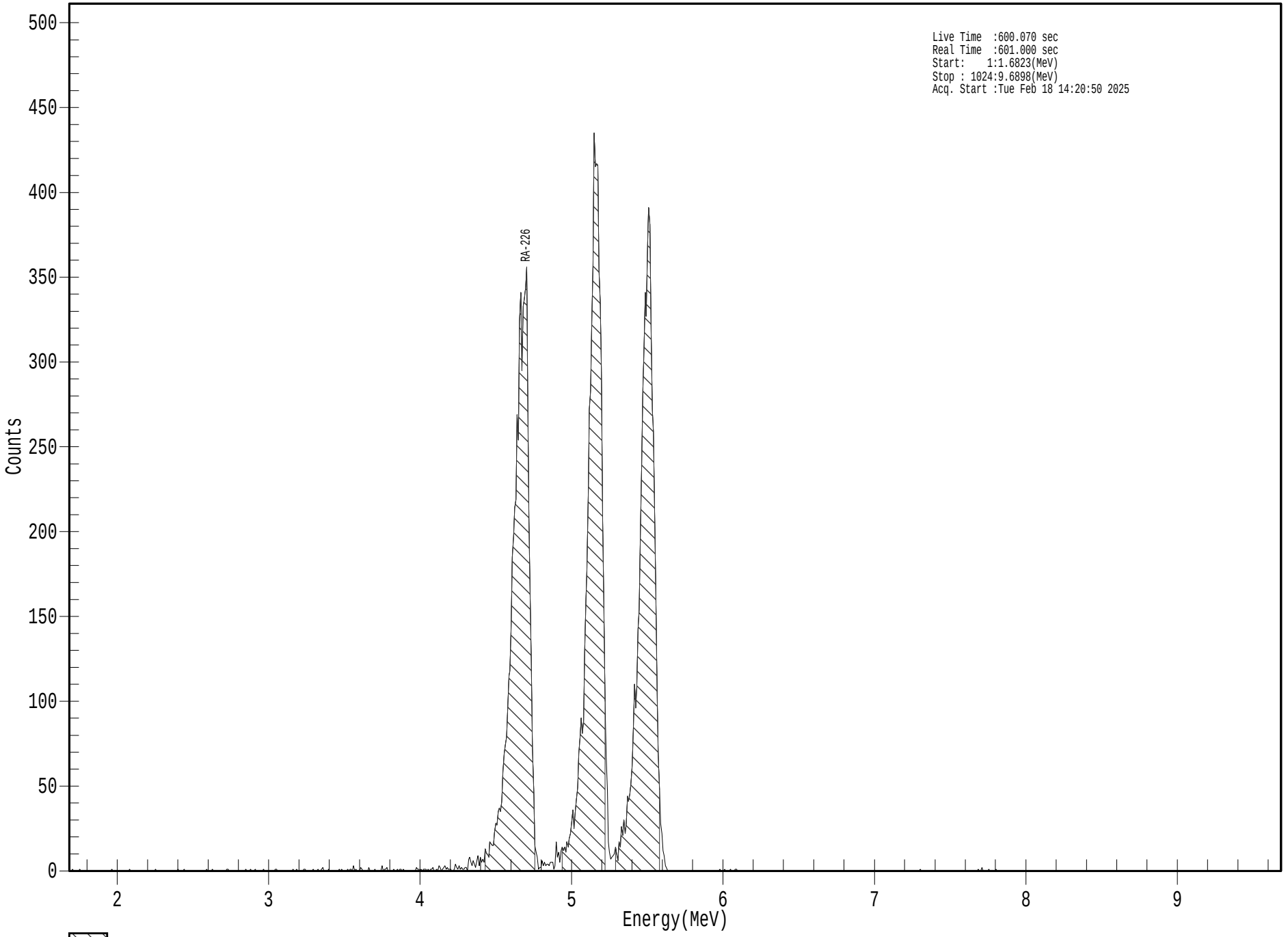
Detector Name: A_2_6A
Sample Title: DET 67 SC 021825
Peak Analysis Performed on: 2/20/2025 1:01:47 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

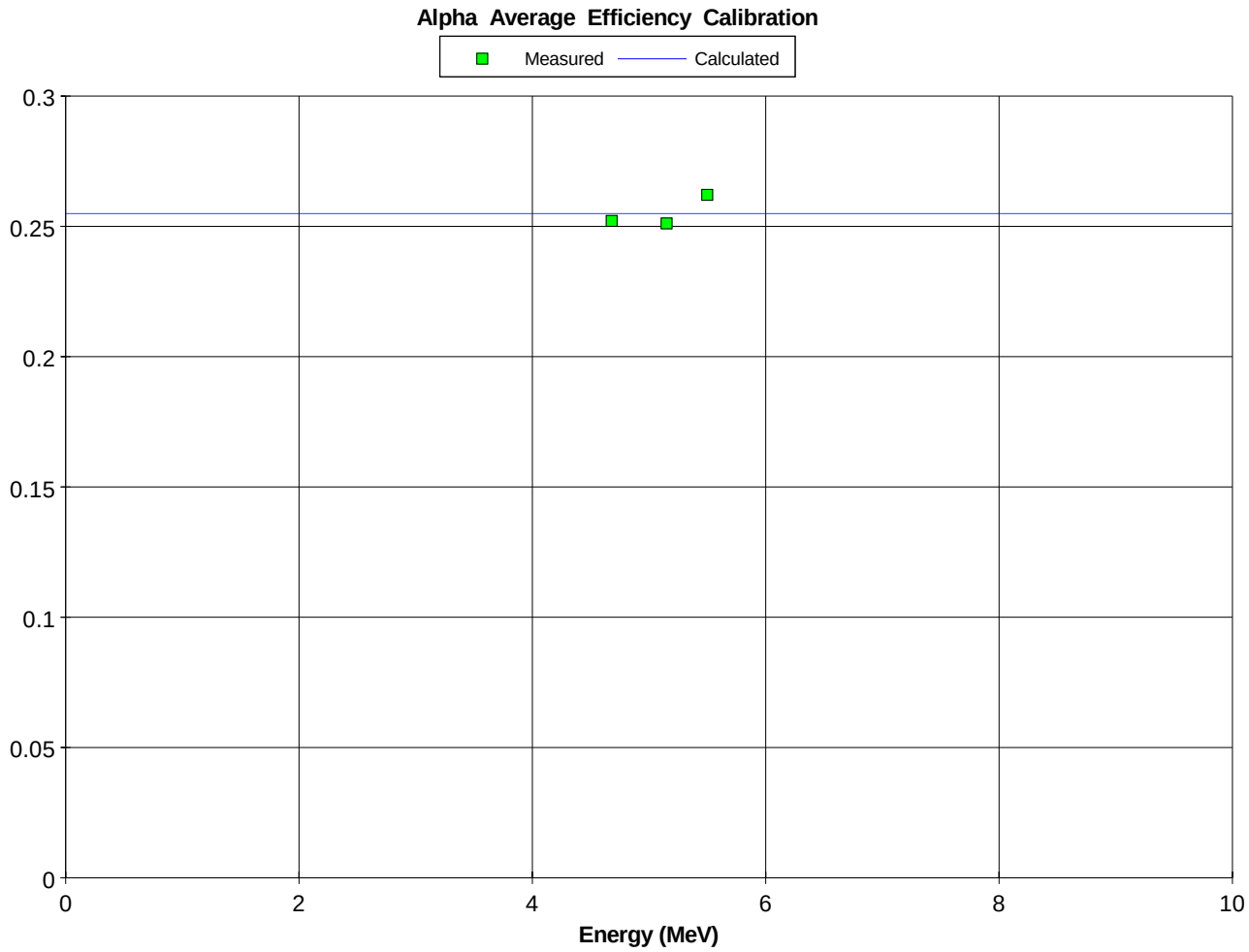
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	352-	394	380.41	4652.14	116.43	5.66E+03	75.26	0.00E+00
2	417-	453	442.79	5140.36	94.30	5.81E+03	76.22	0.00E+00
3	462-	499	487.03	5486.72	97.08	5.41E+03	73.55	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

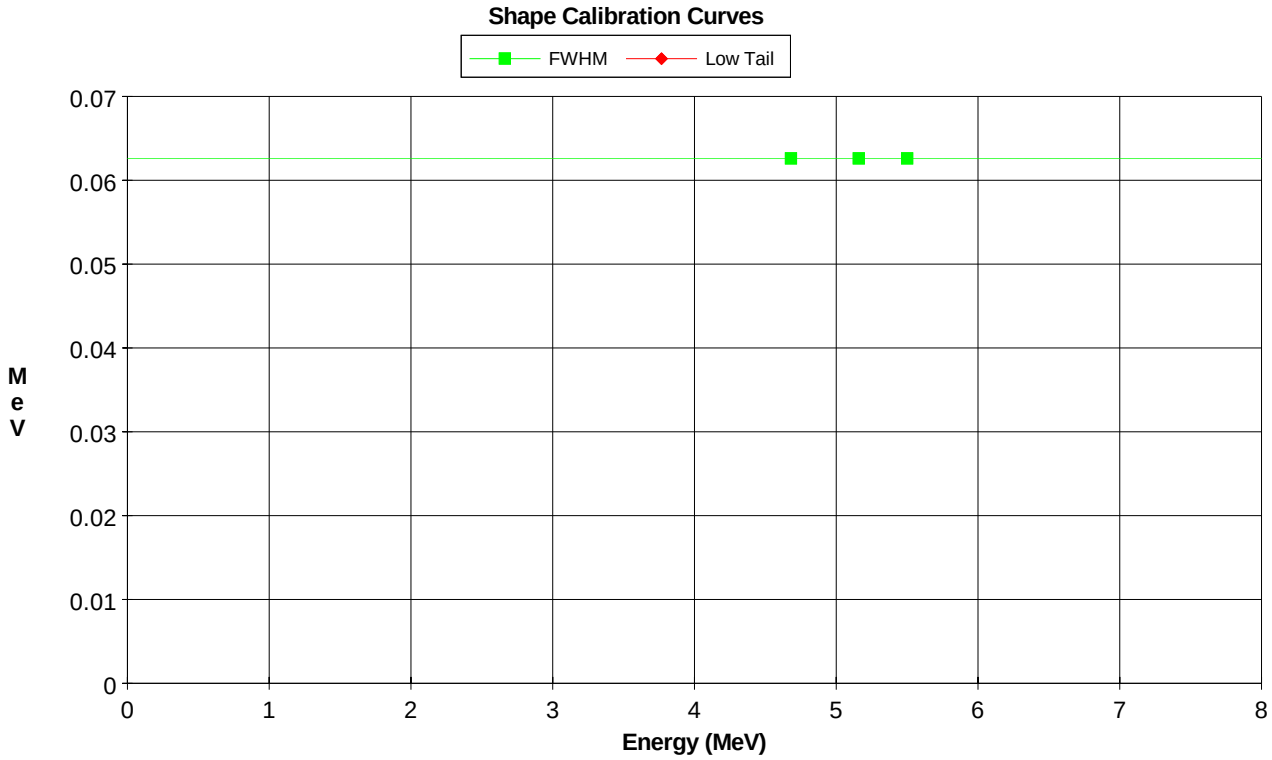
Errors quoted at 1.000 sigma

67.CNF


Live Time :600.070 sec
Real Time :601.000 sec
Start: 1:1.6823(MeV)
Stop : 1024:9.6898(MeV)
Acq. Start :Tue Feb 18 14:20:50 2025
RA-226
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_2_6A
Eff = 2.548e-01



Datasource: O:\alpha_sp\2025\Calibrations\021825\67\67.CNF
Energy = 1.674e+00 MeV +7.827e-03*Ch
FWHM = 6.259e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_6B
Sample Title: DET 68 SC 110124
Peak Analysis Performed on: 11/1/2024 2:20:13 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	333-	390	368.13	4634.13	70.50	5.909E+03	76.87	0.000E+00
2	420-	470	448.14	5099.06	68.38	6.172E+03	78.56	0.000E+00
3	482-	532	504.73	5427.95	64.66	5.593E+03	74.79	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 68 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.998	4687.60*	99.70	1.0627E+03	1.5228E+01
PU-239	0.998	5160.00*	100.00	1.1067E+03	5.7390E+01
AM-241	0.998	5485.70*	99.00	1.0130E+03	1.6680E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 2:20:13 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

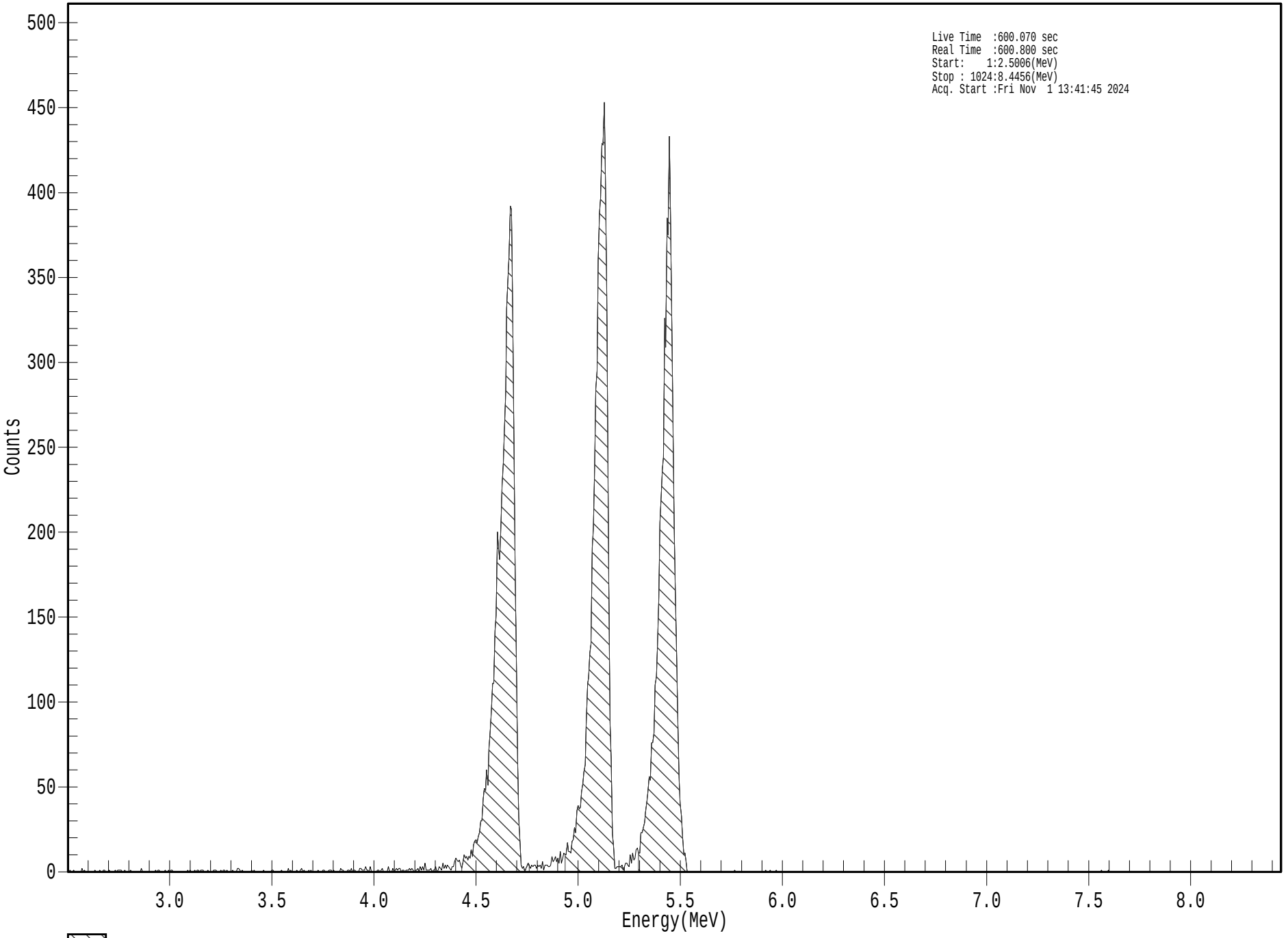
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

All peaks were identified.

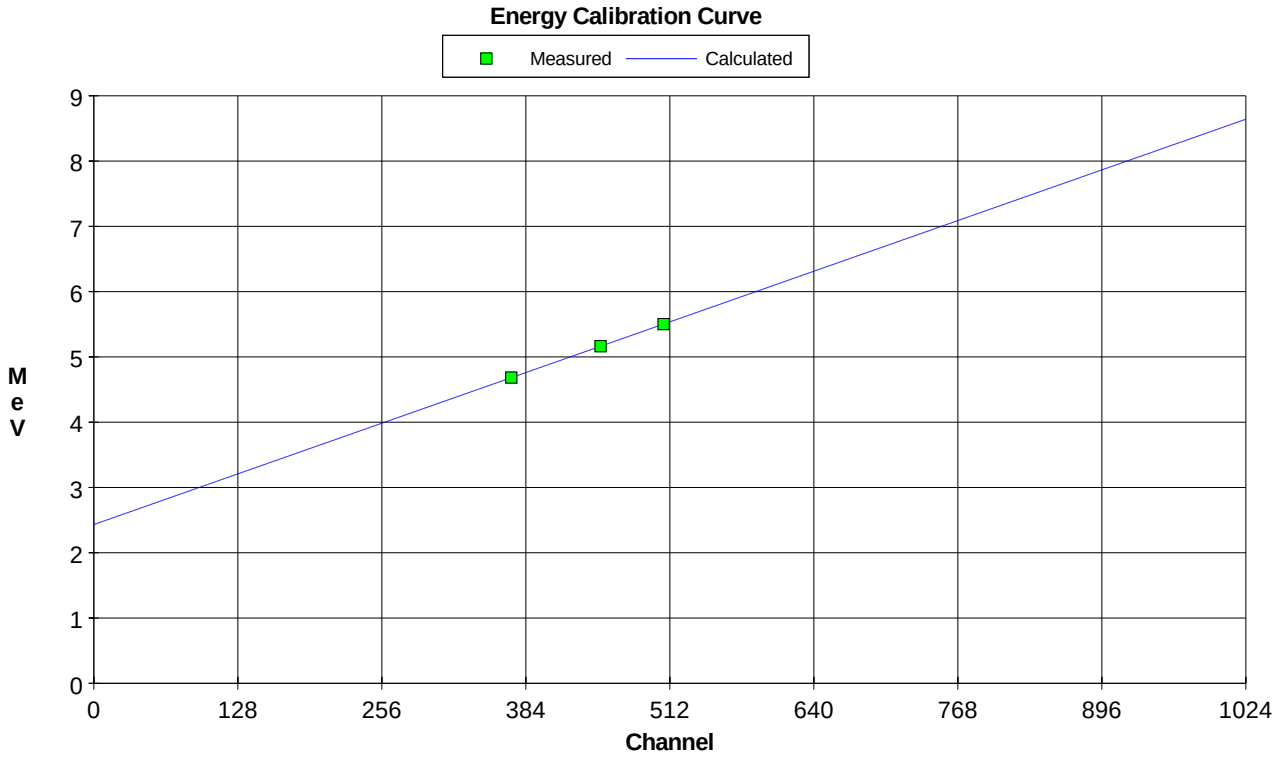
M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

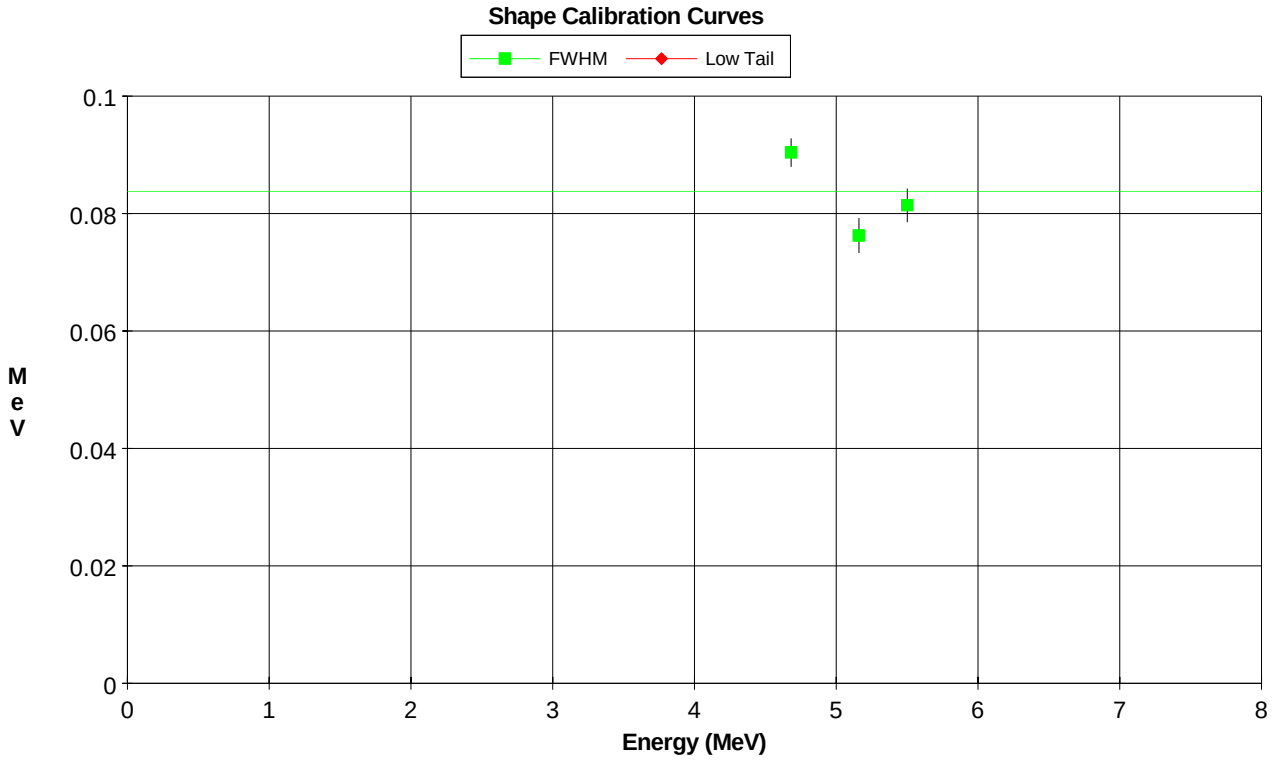
Detector A_2_6B



ROI Type: 1



Datasource: A_2_6B
Energy = 2.430e+00 MeV +6.063e-03*Ch
FWHM = 8.371e-02 MeV



Datasource: A_2_6B
Energy = 2.430e+00 MeV +6.063e-03*Ch
FWHM = 8.371e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\69\69.CNF

Report Generated On : 11/13/2024 2:30:05 PM

Sample Title : DET 69 SC 110724
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 11/7/2024 6:40:29 PM

Live Time : 600.0 seconds
Real Time : 604.6 seconds

Dead Time : 0.76 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 6/25/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

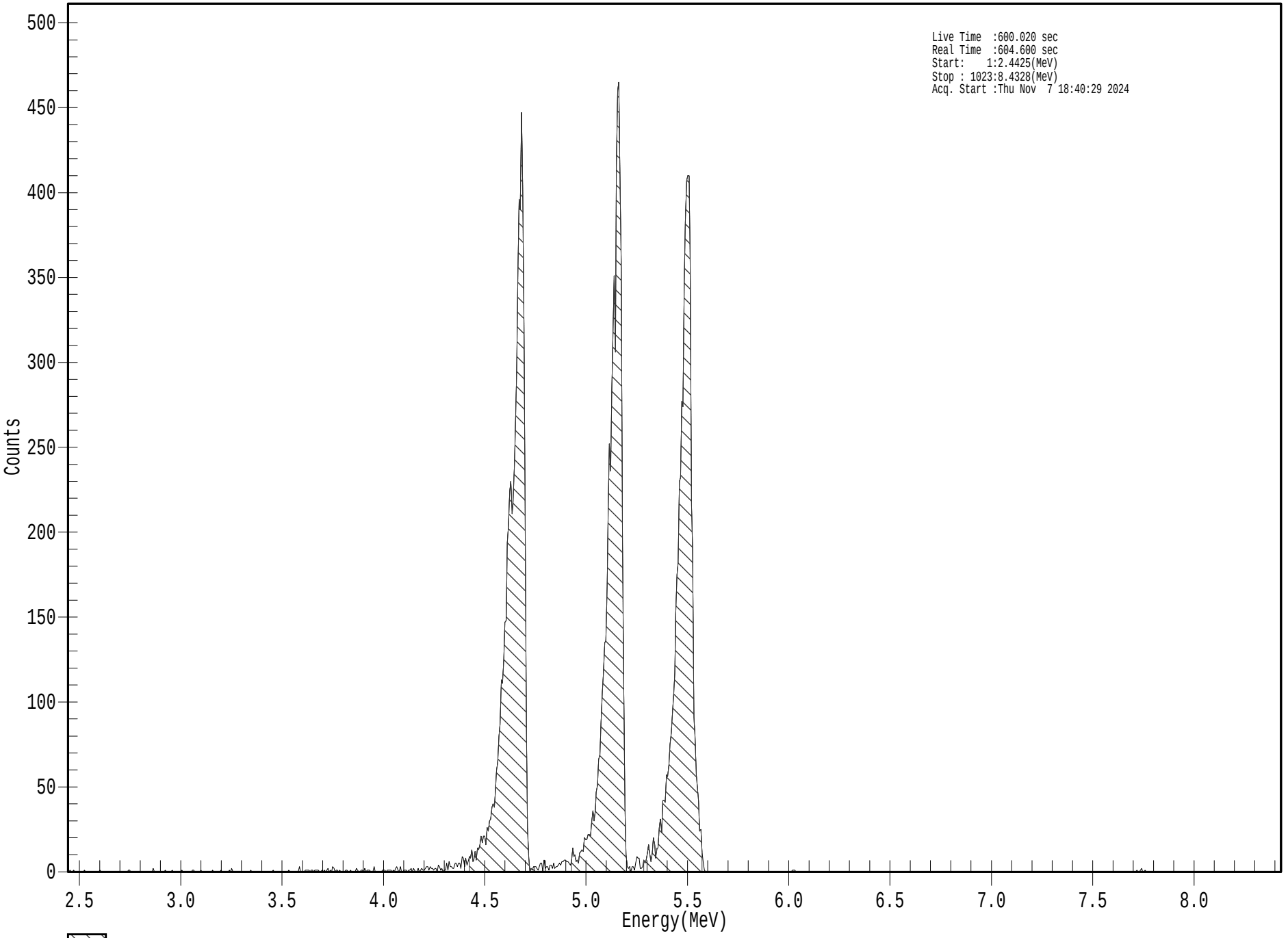
Detector Name: A_3_1A
Sample Title: DET 69 SC 110724
Peak Analysis Performed on: 11/13/2024 2:30:05 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

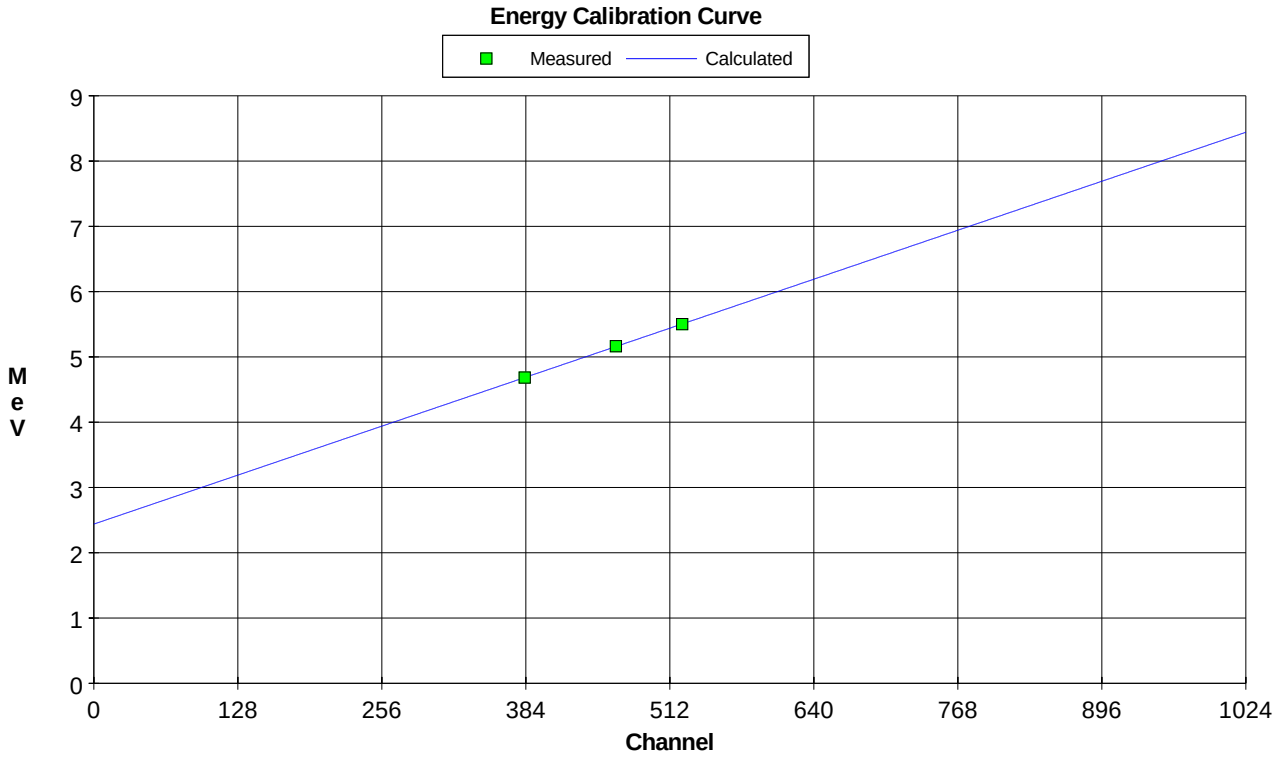
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	394	375.66	4638.51	56.72	6.14E+03	78.38	0.00E+00
2	425-	474	459.30	5128.79	66.25	5.77E+03	75.99	0.00E+00
3	486-	535	518.61	5476.42	64.15	5.62E+03	74.99	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

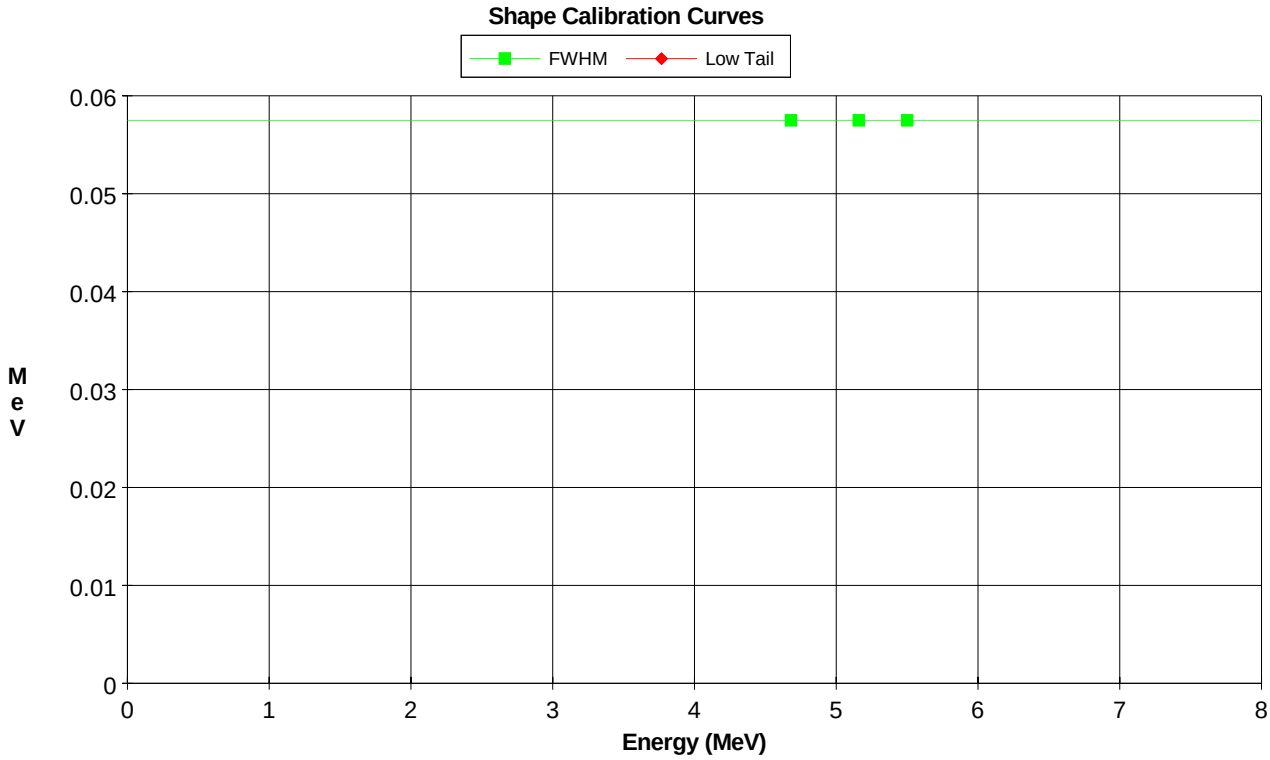
Errors quoted at 1.000 sigma

69.CNF


Live Time :600.020 sec
Real Time :604.600 sec
Start: 1:2.4425(MeV)
Stop : 1023:8.4328(MeV)
Acq. Start :Thu Nov 7 18:40:29 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: O:\alpha_sp\2024\CALIBRATIONS\110724\69\69.CNF
Energy = 2.437e+00 MeV +5.861e-03*Ch
FWHM = 5.746e-02 MeV



Datasource: O:\alpha_sp\2024\CALIBRATIONS\110724\69\69.CNF
Energy = 2.437e+00 MeV +5.861e-03*Ch
FWHM = 5.746e-02 MeV

```
**************************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**************************************************************************


Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\70\70.CNF

Report Generated On             : 11/13/2024  2:33:24 PM

Sample Title                    : DET 70 SC 110724
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 11/7/2024   6:40:34 PM

Live Time                       :      600.1 seconds
Real Time                       :      604.7 seconds

Dead Time                       :   0.76 %


              Energy Calibration Used Done On       : 11/7/2024
              Efficiency Calibration Used Done On   : 11/7/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

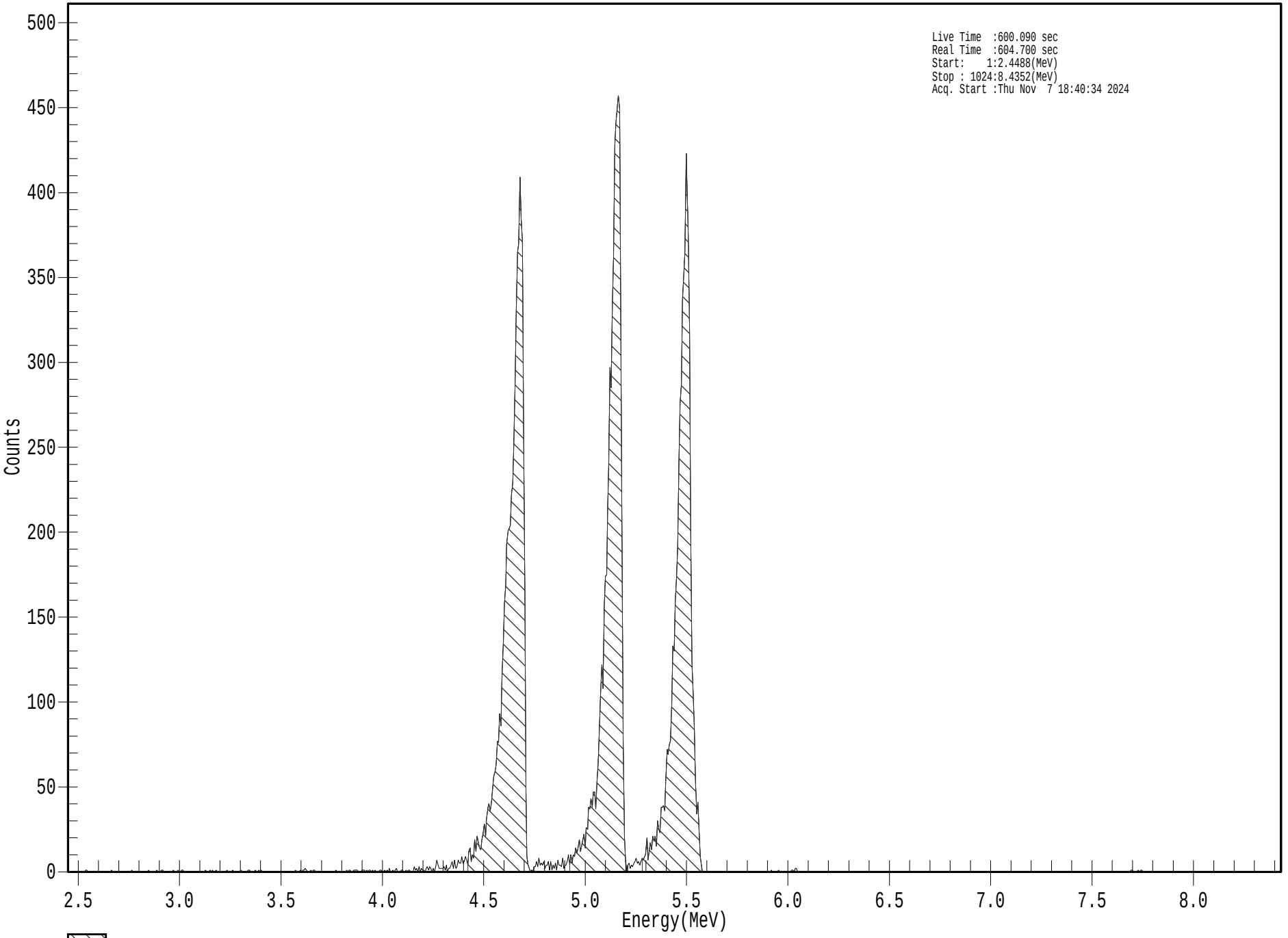
Detector Name: A_3_1B
Sample Title: DET 70 SC 110724
Peak Analysis Performed on: 11/13/2024 2:33:24 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

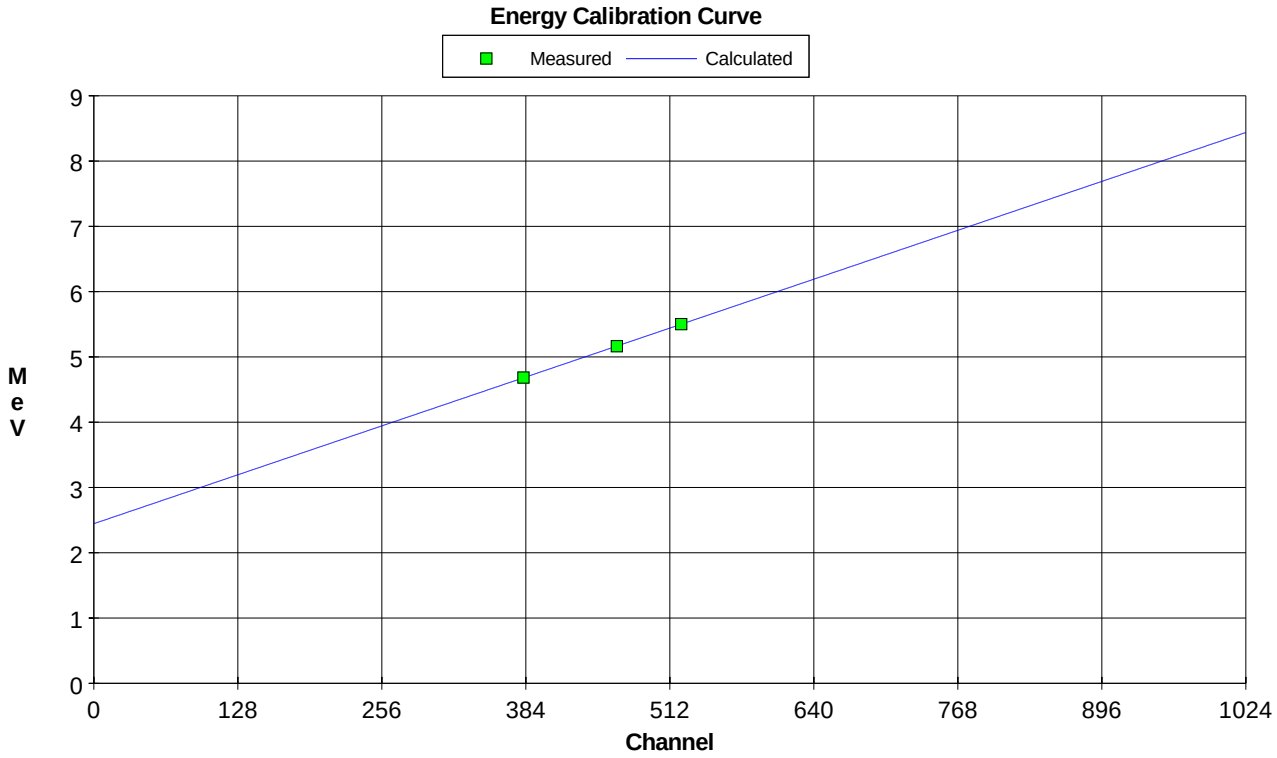
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	338-	394	374.83	4636.39	67.76	6.09E+03	78.01	0.00E+00
2	424-	473	458.73	5127.36	64.84	6.13E+03	78.31	0.00E+00
3	485-	535	517.96	5473.94	61.73	5.70E+03	75.51	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

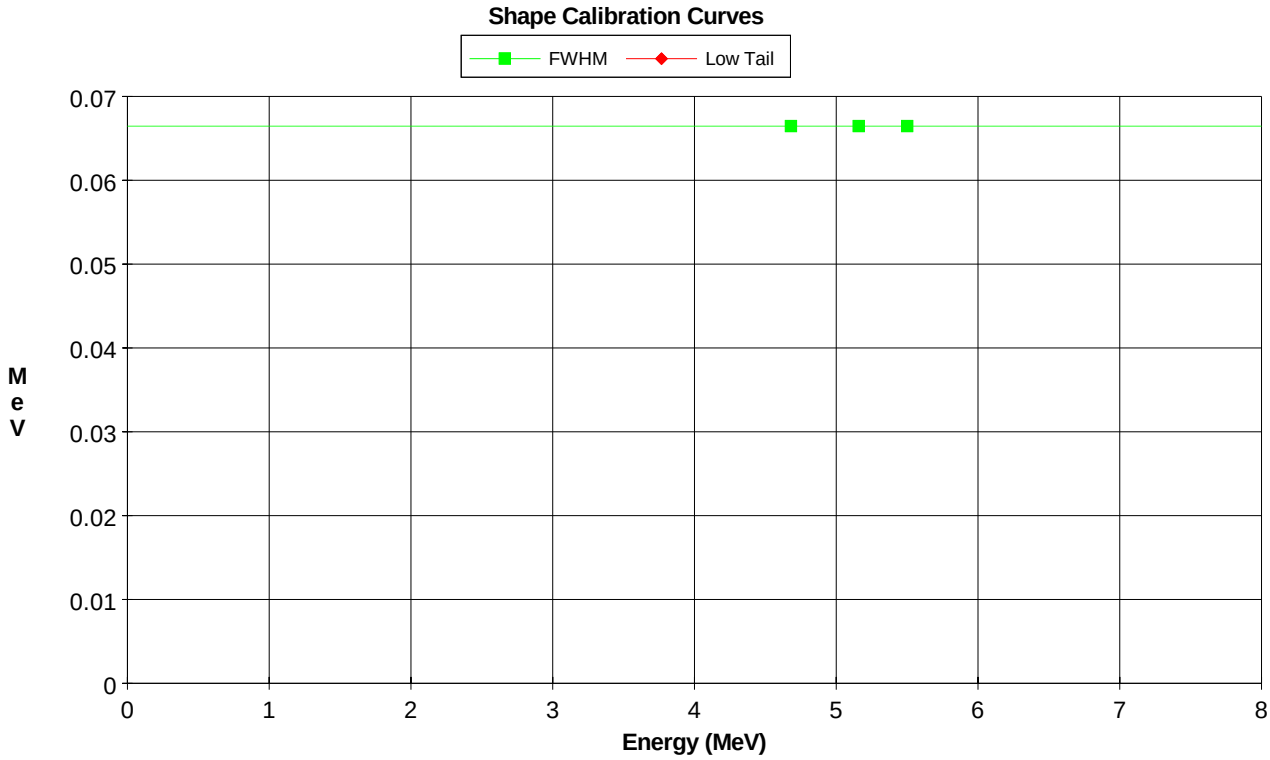
Errors quoted at 1.000 sigma

70.CNF


Live Time :600.090 sec
Real Time :604.700 sec
Start: 1:2.4488(MeV)
Stop : 1024:8.4352(MeV)
Acq. Start :Thu Nov 7 18:40:34 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_1B
Energy = 2.443e+00 MeV +5.852e-03*Ch
FWHM = 6.644e-02 MeV



Datasource: A_3_1B
Energy = 2.443e+00 MeV +5.852e-03*Ch
FWHM = 6.644e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\71\71.CNF

Report Generated On : 11/13/2024 2:34:03 PM

Sample Title : DET 71 SC 110724
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 7/5/2024 8:51:48 PM

Live Time : 600.0 seconds
Real Time : 602.8 seconds

Dead Time : 0.46 %

Energy Calibration Used Done On : 6/24/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

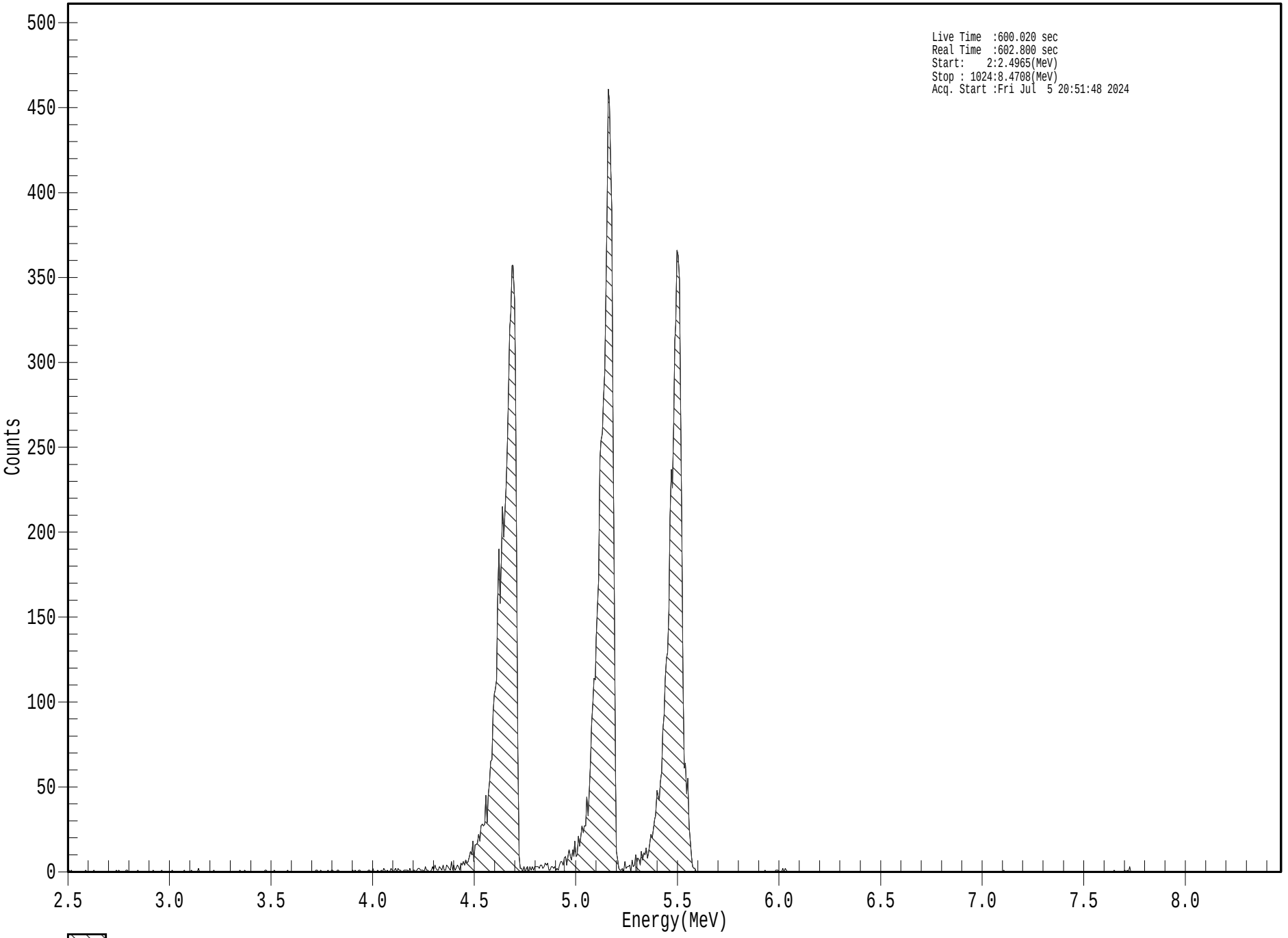
Detector Name: A_3_2A
Sample Title: DET 71 SC 110724
Peak Analysis Performed on: 11/13/2024 2:34:03 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

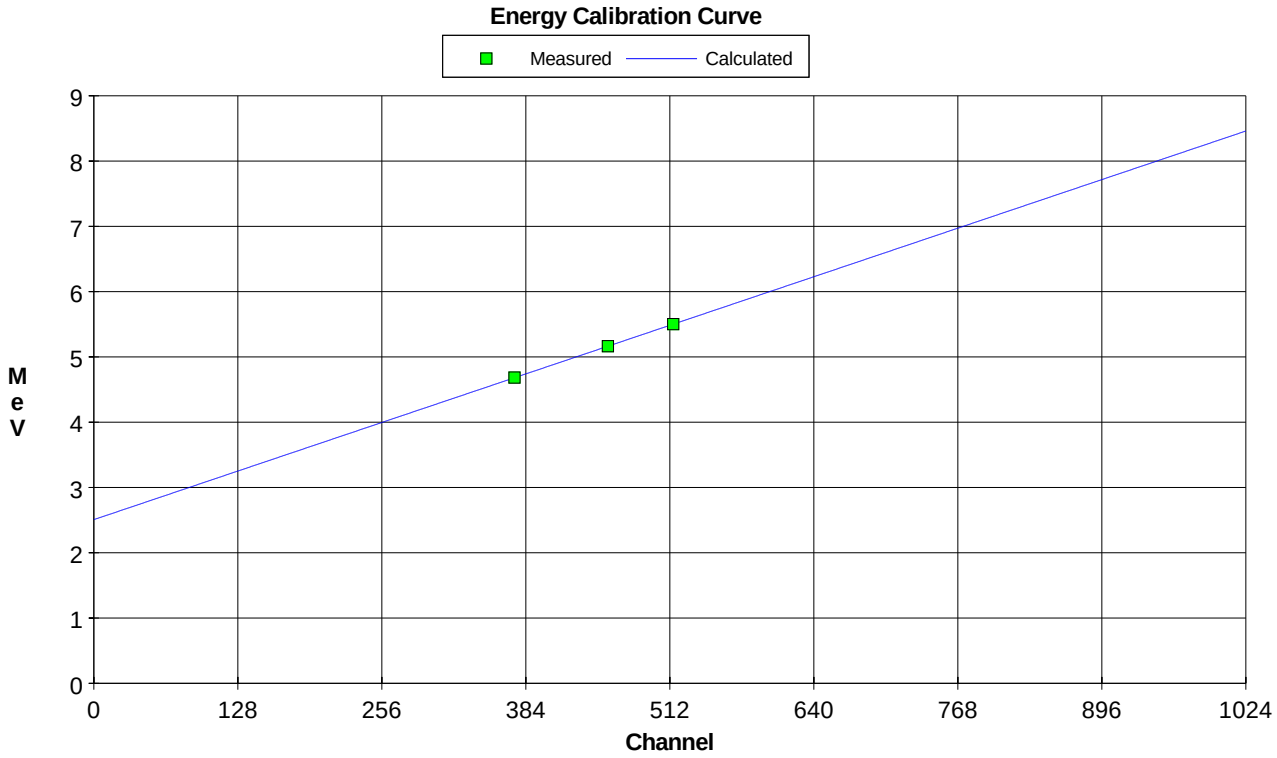
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	333-	389	369.85	4646.87	77.01	5.35E+03	73.11	0.00E+00
2	420-	469	453.06	5133.28	67.10	5.64E+03	75.09	0.00E+00
3	480-	530	511.69	5476.01	62.26	4.73E+03	68.75	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

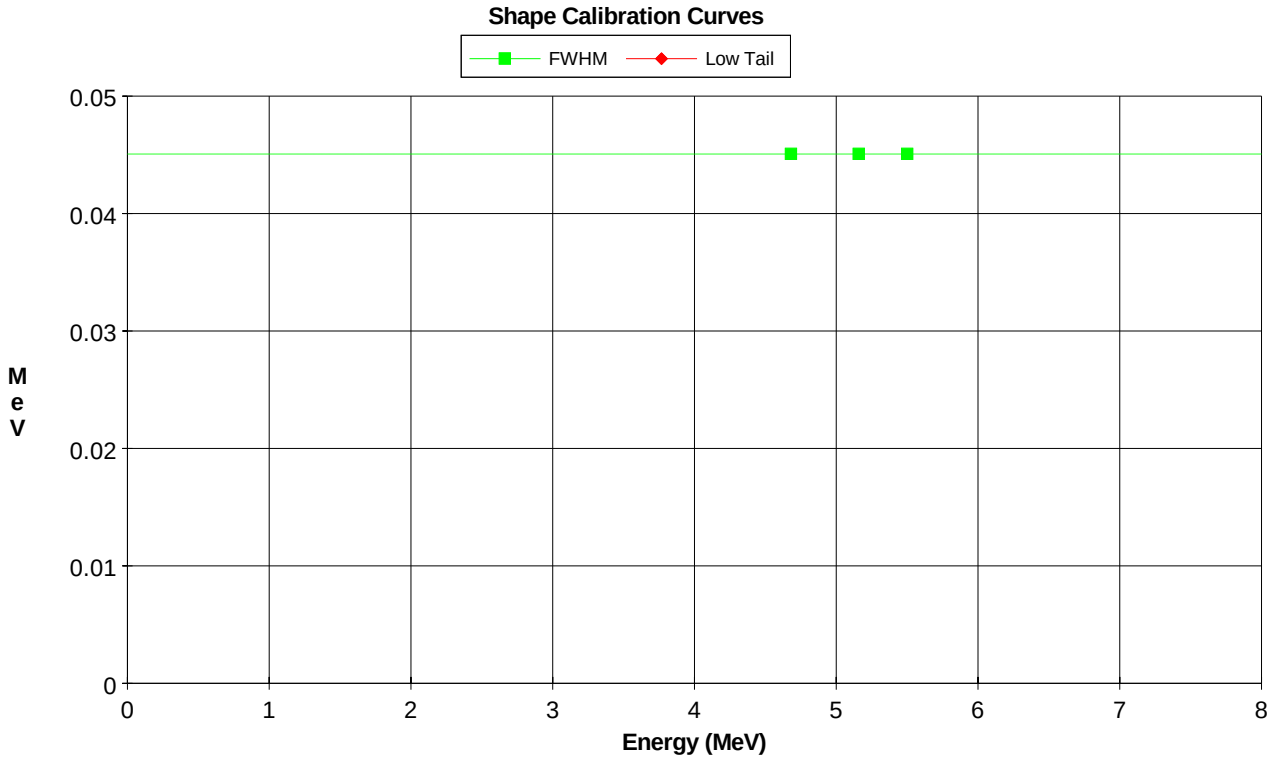
Errors quoted at 1.000 sigma

71.CNF


Live Time :600.020 sec
Real Time :602.800 sec
Start: 2:2.4965(MeV)
Stop : 1024:8.4708(MeV)
Acq. Start :Fri Jul 5 20:51:48 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_2A
Energy = 2.505e+00 MeV +5.813e-03*Ch
FWHM = 4.505e-02 MeV



Datasource: A_3_2A
Energy = 2.505e+00 MeV +5.813e-03*Ch
FWHM = 4.505e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\72\72.CNF

Report Generated On	:	11/13/2024 2:34:25 PM
Sample Title	:	DET 72 SC 110724
Sample Description	:	
Sample Identification	:	
Sample Type	:	
Sample Geometry	:	
Peak Locate Threshold	:	10.00
Peak Locate Range (in channels)	:	1 - 1024
Peak Area Range (in channels)	:	1 - 1024
Identification Energy Tolerance	:	2.000 FWHM
Sample Size	:	1.0000E+00 Unit
Sample Taken On	:	
Acquisition Started	:	7/3/2024 11:42:30 PM
Live Time	:	600.0 seconds
Real Time	:	602.8 seconds
Dead Time	:	0.46 %

Energy Calibration Used Done On	:	6/24/2024
Efficiency Calibration Used Done On	:	11/7/2024
Efficiency ID	:	

****
***** P E A K A N A L Y S I S R E P O R T *****
****

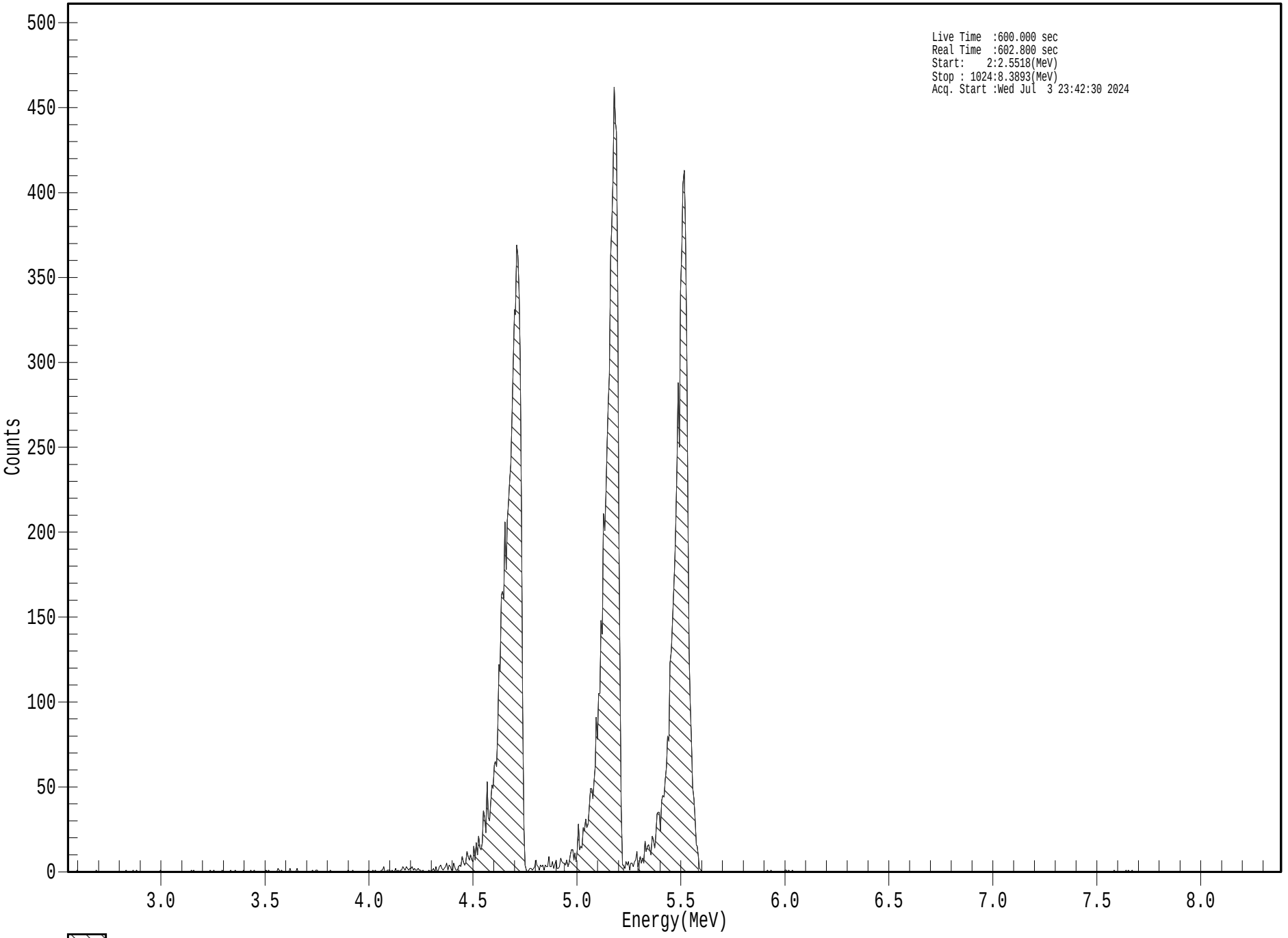
Detector Name: A_3_2B
Sample Title: DET 72 SC 110724
Peak Analysis Performed on: 11/13/2024 2:34:25 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

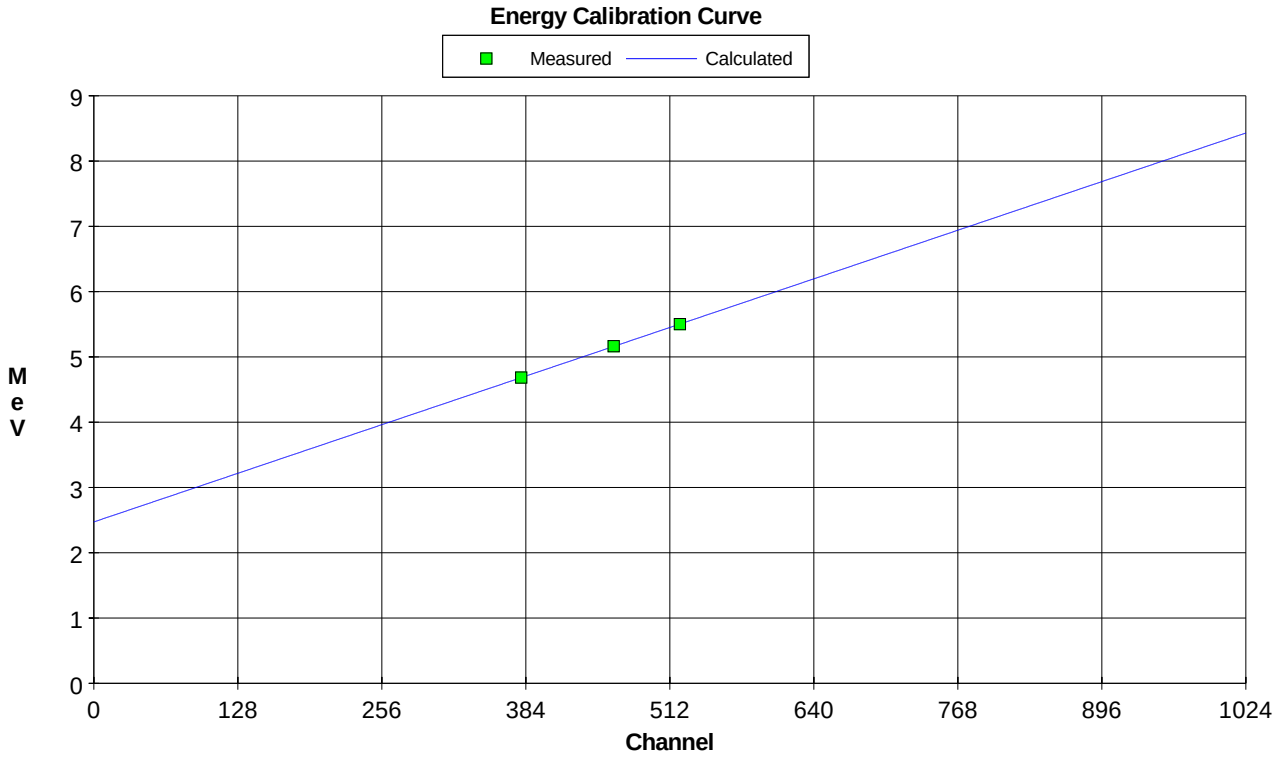
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	331-	388	373.31	4672.63	74.08	5.75E+03	75.82	0.00E+00
2	420-	470	457.01	5150.72	59.94	5.92E+03	76.91	0.00E+00
3	482-	533	516.34	5489.59	57.58	5.37E+03	73.27	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

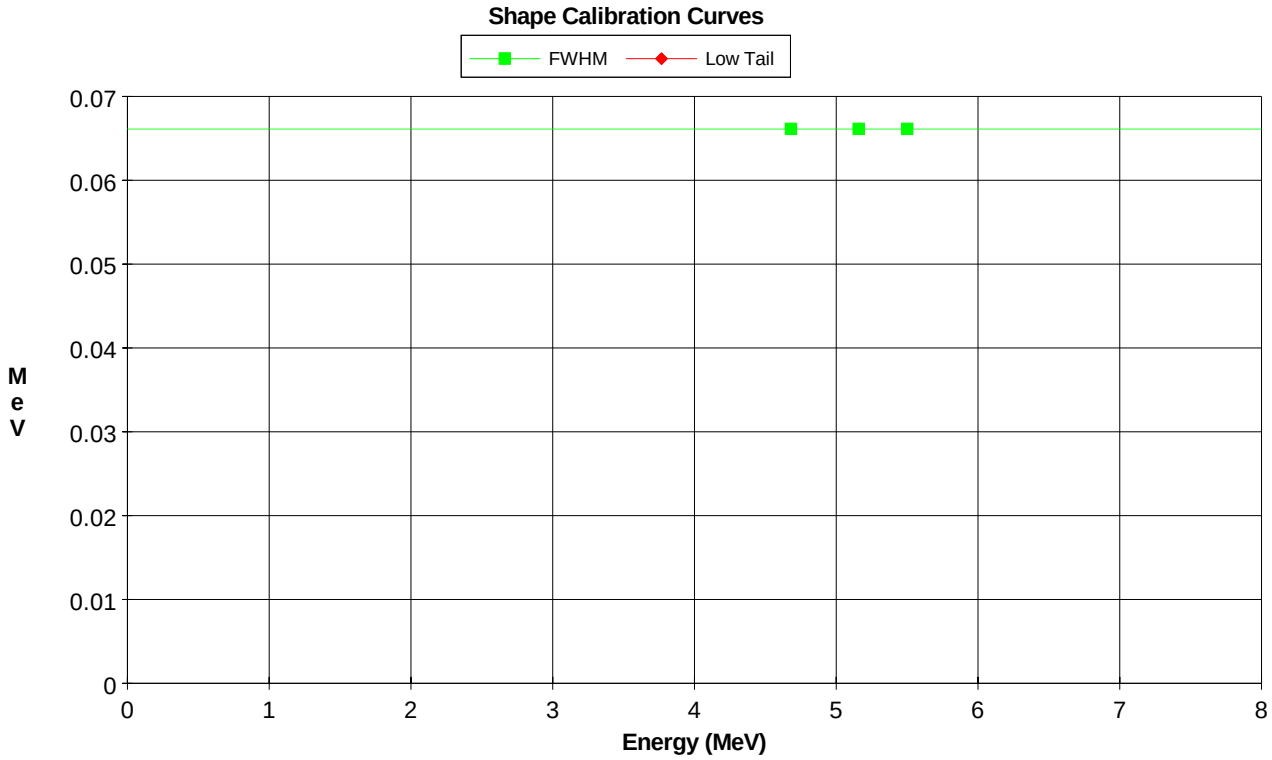
Errors quoted at 1.000 sigma

72.CNF


Live Time :600.000 sec
Real Time :602.800 sec
Start: 2:2.5518(MeV)
Stop : 1024:8.3893(MeV)
Acq. Start :Wed Jul 3 23:42:30 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_2B
Energy = 2.470e+00 MeV +5.818e-03*Ch
FWHM = 6.609e-02 MeV



Datasource: A_3_2B
Energy = 2.470e+00 MeV +5.818e-03*Ch
FWHM = 6.609e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: A_3_4A

Report Generated On : 2/18/2025 2:35:43 PM

Sample Title : DET 75 SC 021825
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 2/18/2025 2:19:15 PM

Live Time : 600.1 seconds
Real Time : 600.7 seconds

Dead Time : 0.10 %

Energy Calibration Used Done On : 2/18/2025
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

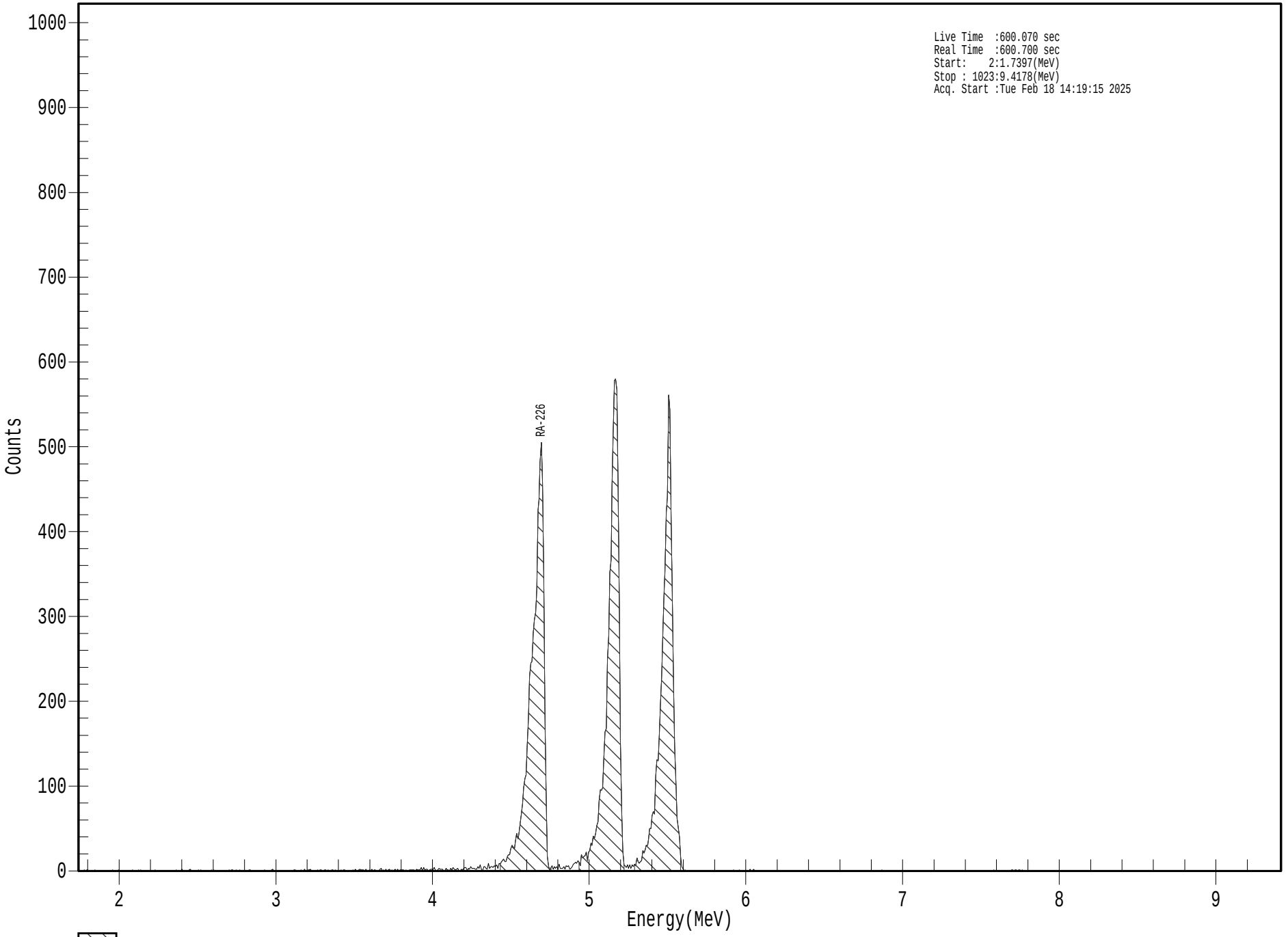
Detector Name: A_3_4A
Sample Title: DET 75 SC 021825
Peak Analysis Performed on: 2/18/2025 2:35:43 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

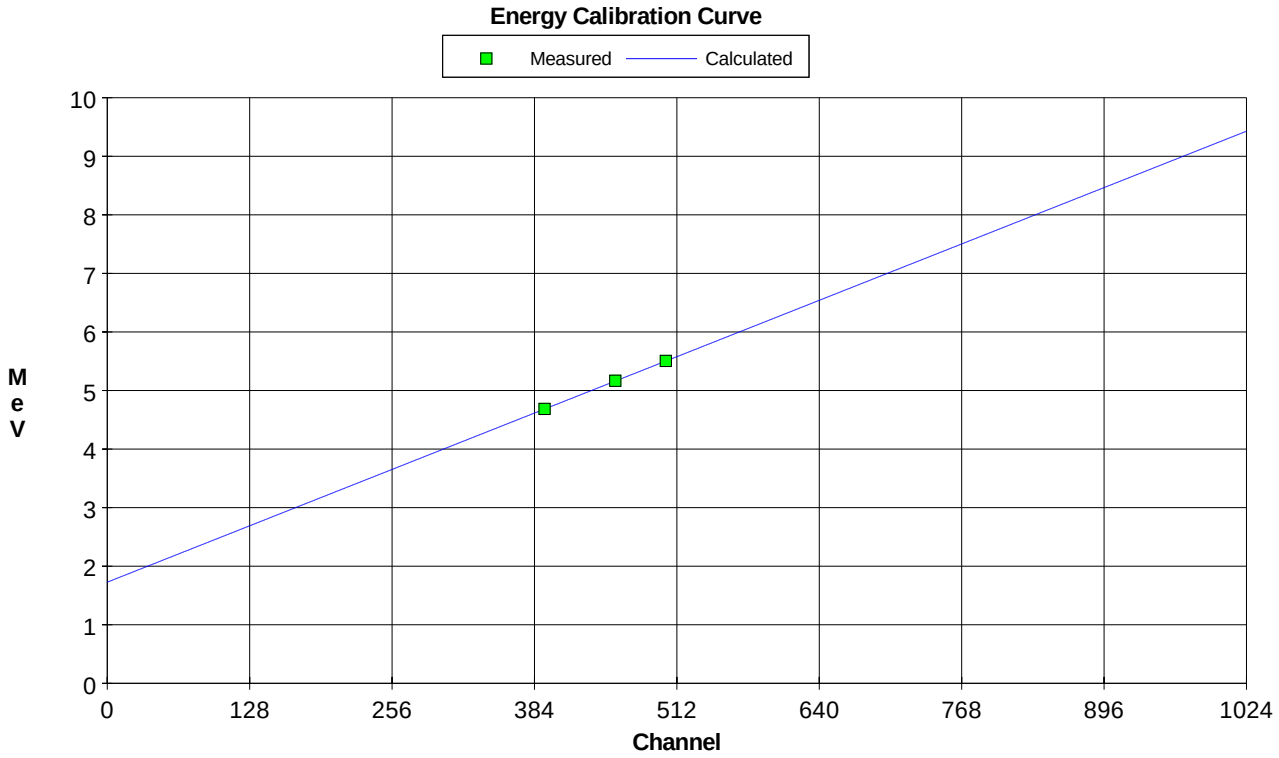
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	360-	403	389.31	4652.32	78.25	6.127E+03	78.28	0.000E+00
2	427-	465	454.13	5139.80	67.70	6.277E+03	79.23	0.000E+00
3	474-	513	500.24	5486.57	63.15	5.828E+03	76.34	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

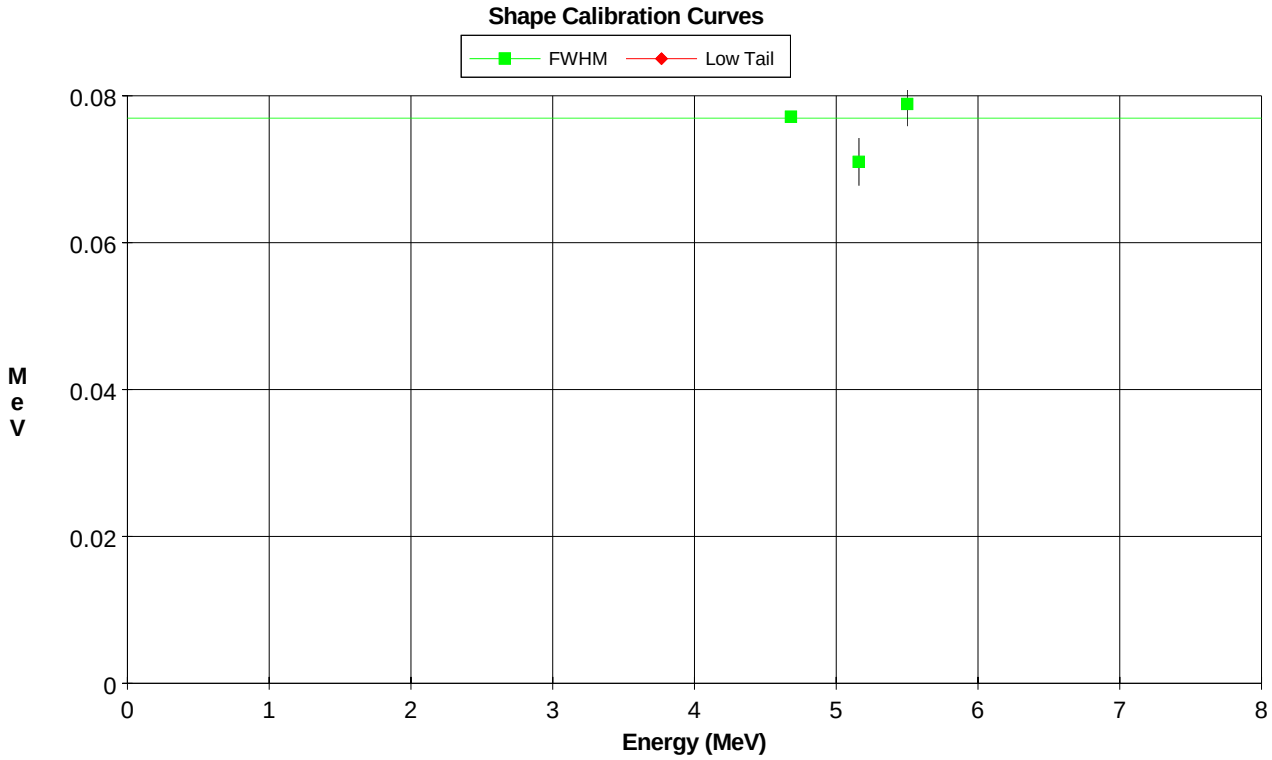
Errors quoted at 1.000 sigma

Detector A_3_4A





Datasource: A_3_4A
Energy = 1.725e+00 MeV +7.520e-03*Ch
FWHM = 7.695e-02 MeV



Datasource: A_3_4A
Energy = 1.725e+00 MeV +7.520e-03*Ch
FWHM = 7.695e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\76\76.CNF

Report Generated On : 11/13/2024 2:35:05 PM

Sample Title : DET 76 SC 110724
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 11/7/2024 6:40:48 PM

Live Time : 600.1 seconds
Real Time : 604.7 seconds

Dead Time : 0.77 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

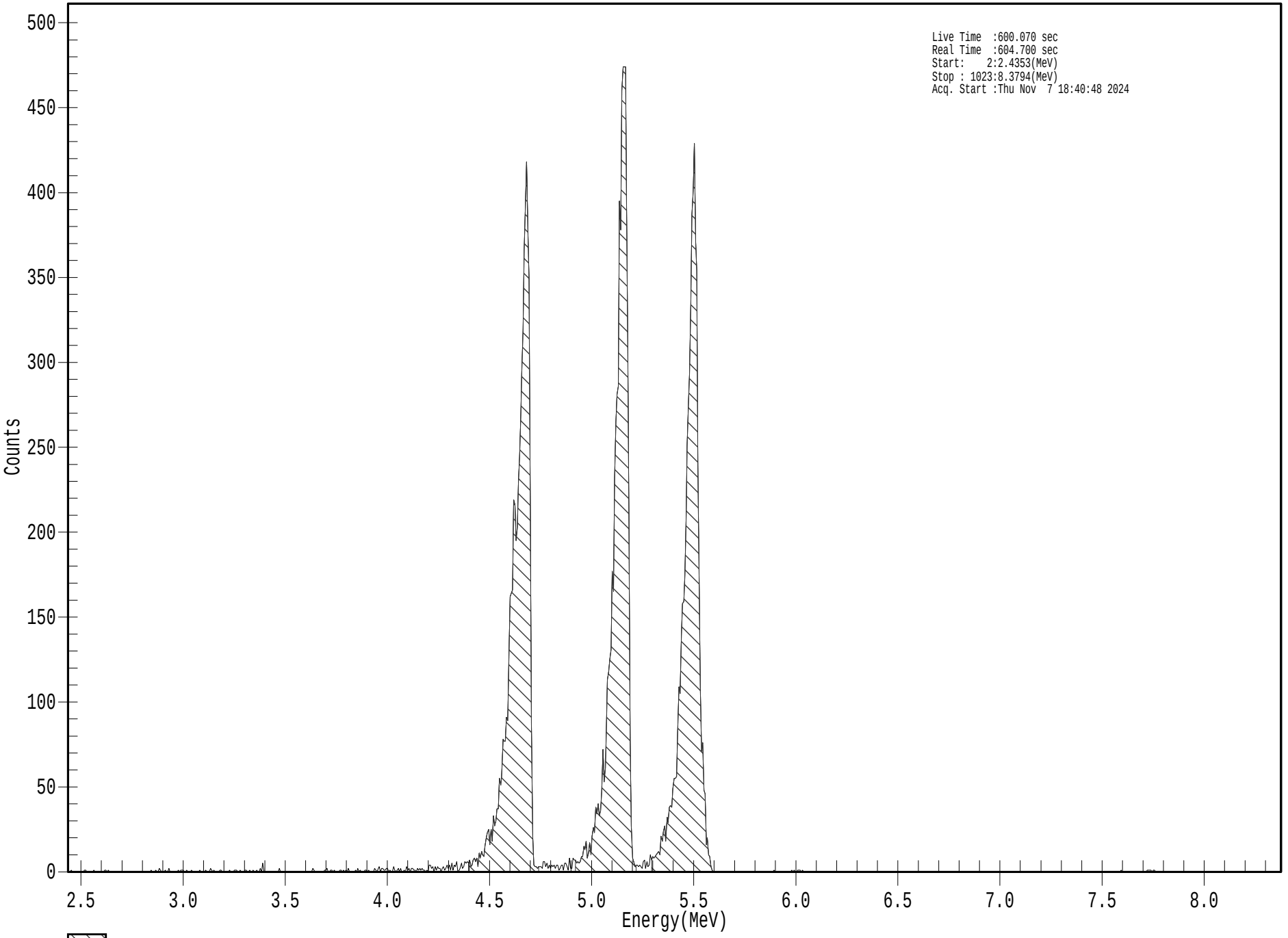
Detector Name: A_3_4B
Sample Title: DET 76 SC 110724
Peak Analysis Performed on: 11/13/2024 2:35:05 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

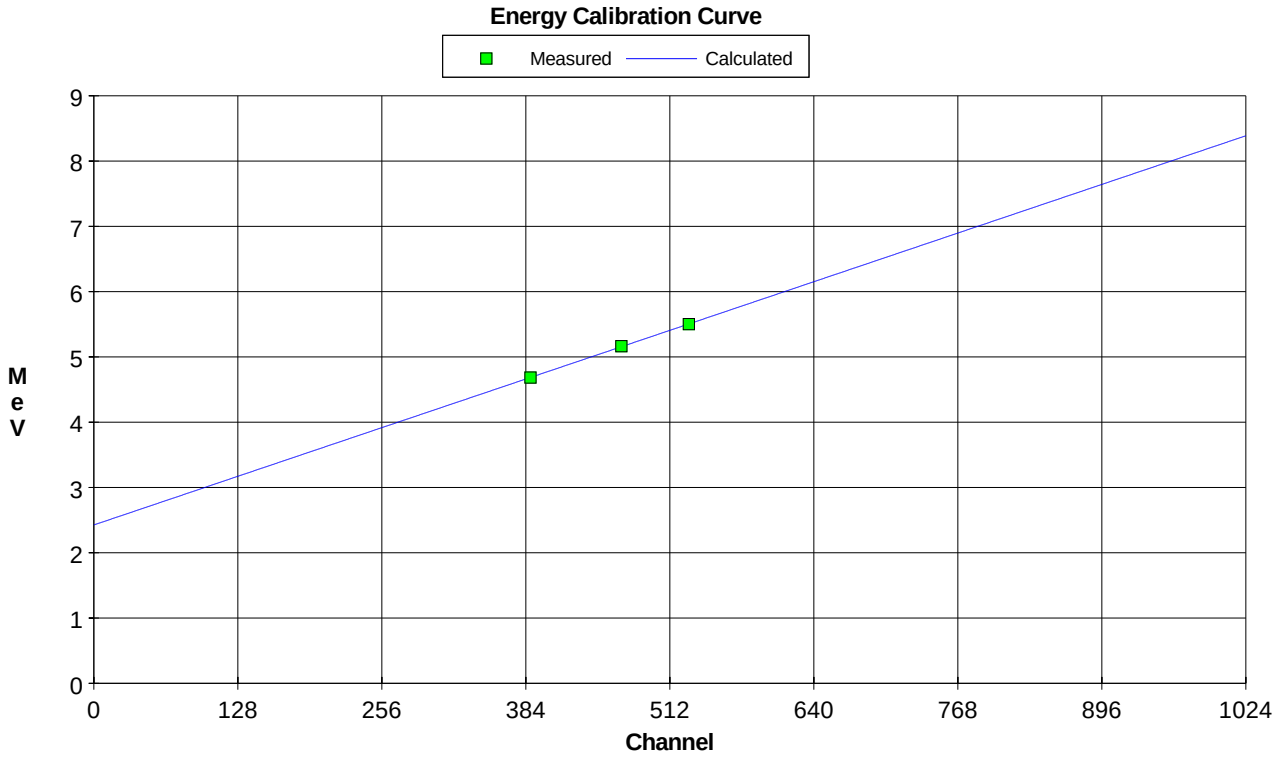
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	398	380.45	4638.56	62.93	6.03E+03	77.64	0.00E+00
2	429-	480	464.88	5130.12	67.52	6.30E+03	79.36	0.00E+00
3	493-	545	524.65	5478.07	59.81	5.63E+03	75.06	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

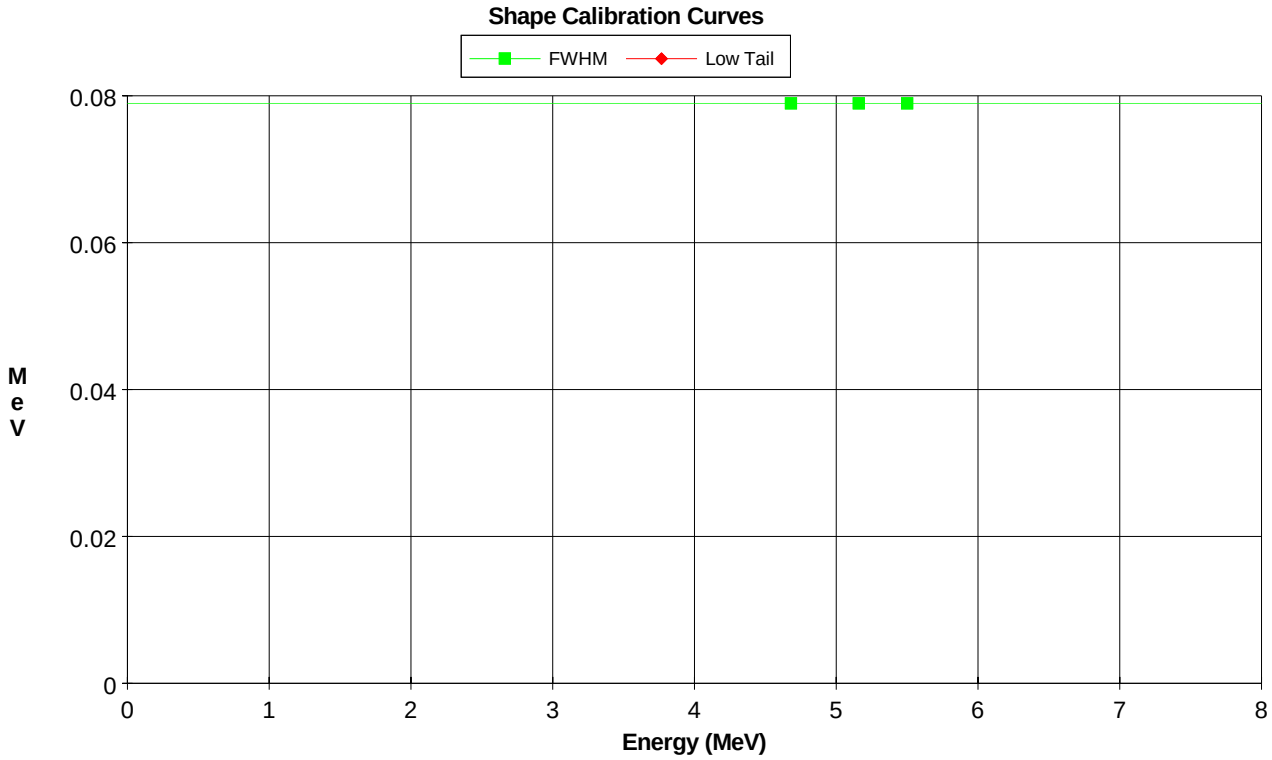
Errors quoted at 1.000 sigma

76.CNF


Live Time :600.070 sec
Real Time :604.700 sec
Start: 2:2.4353(MeV)
Stop : 1023:8.3794(MeV)
Acq. Start :Thu Nov 7 18:40:48 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_4B
Energy = 2.424e+00 MeV +5.822e-03*Ch
FWHM = 7.894e-02 MeV



Datasource: A_3_4B
Energy = 2.424e+00 MeV +5.822e-03*Ch
FWHM = 7.894e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\77\77.CNF

Report Generated On : 11/13/2024 2:35:24 PM

Sample Title : DET 77 SC 110724
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 11/7/2024 6:40:54 PM

Live Time : 600.1 seconds
Real Time : 604.7 seconds

Dead Time : 0.76 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

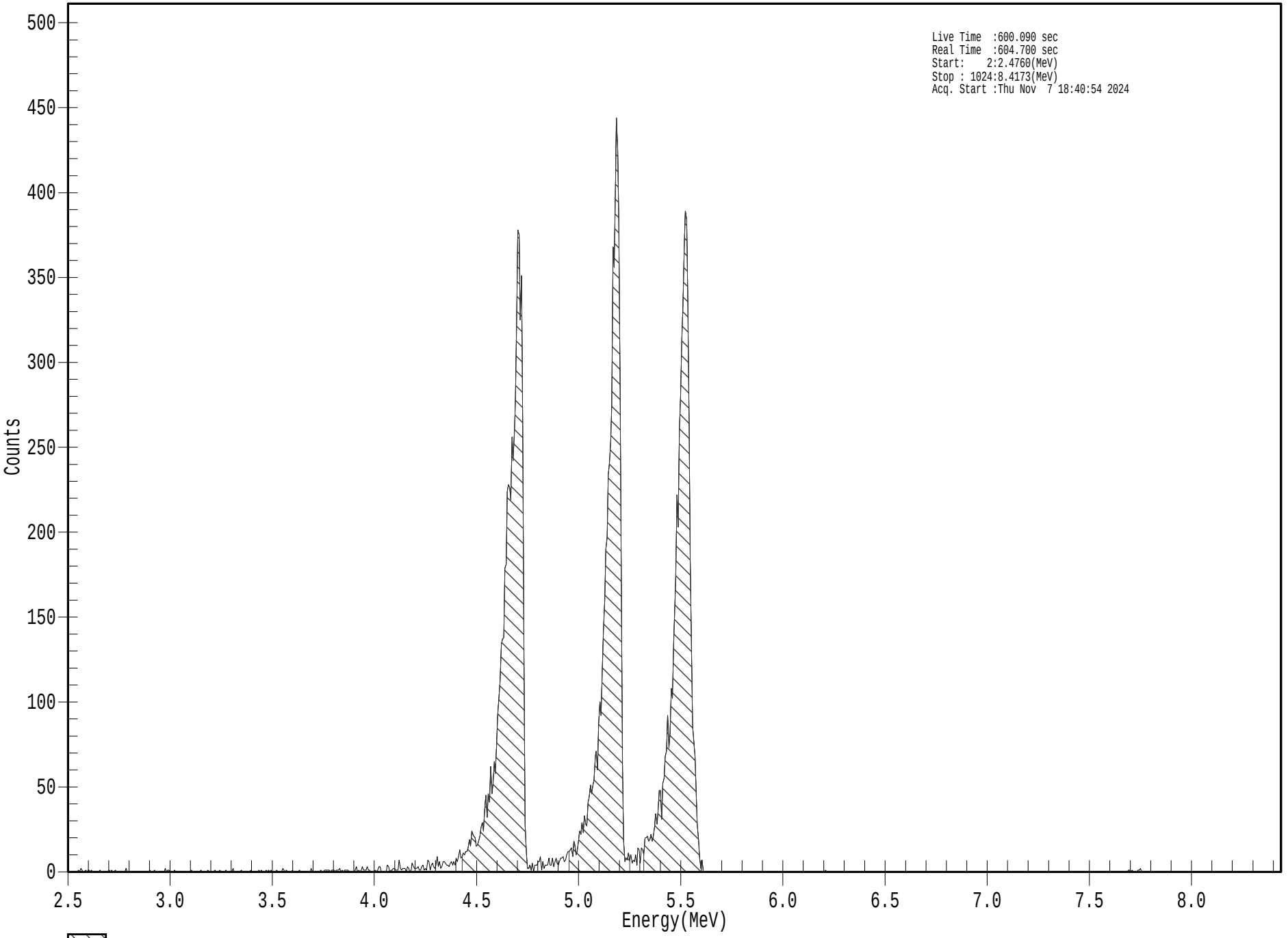
Detector Name: A_3_5A
Sample Title: DET 77 SC 110724
Peak Analysis Performed on: 11/13/2024 2:35:24 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

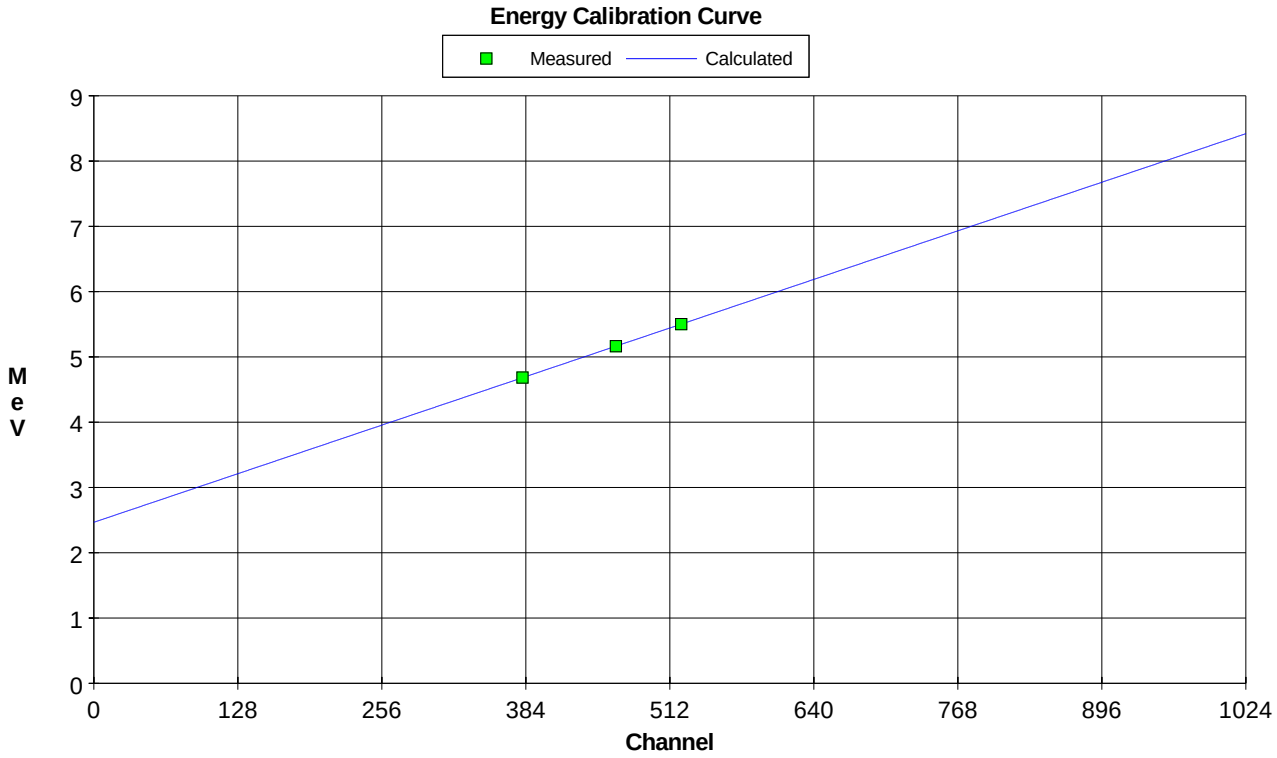
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	334-	392	373.56	4636.03	83.50	6.10E+03	78.11	0.00E+00
2	424-	475	458.02	5126.99	63.54	5.85E+03	76.47	0.00E+00
3	487-	539	517.28	5471.49	66.52	5.60E+03	74.80	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

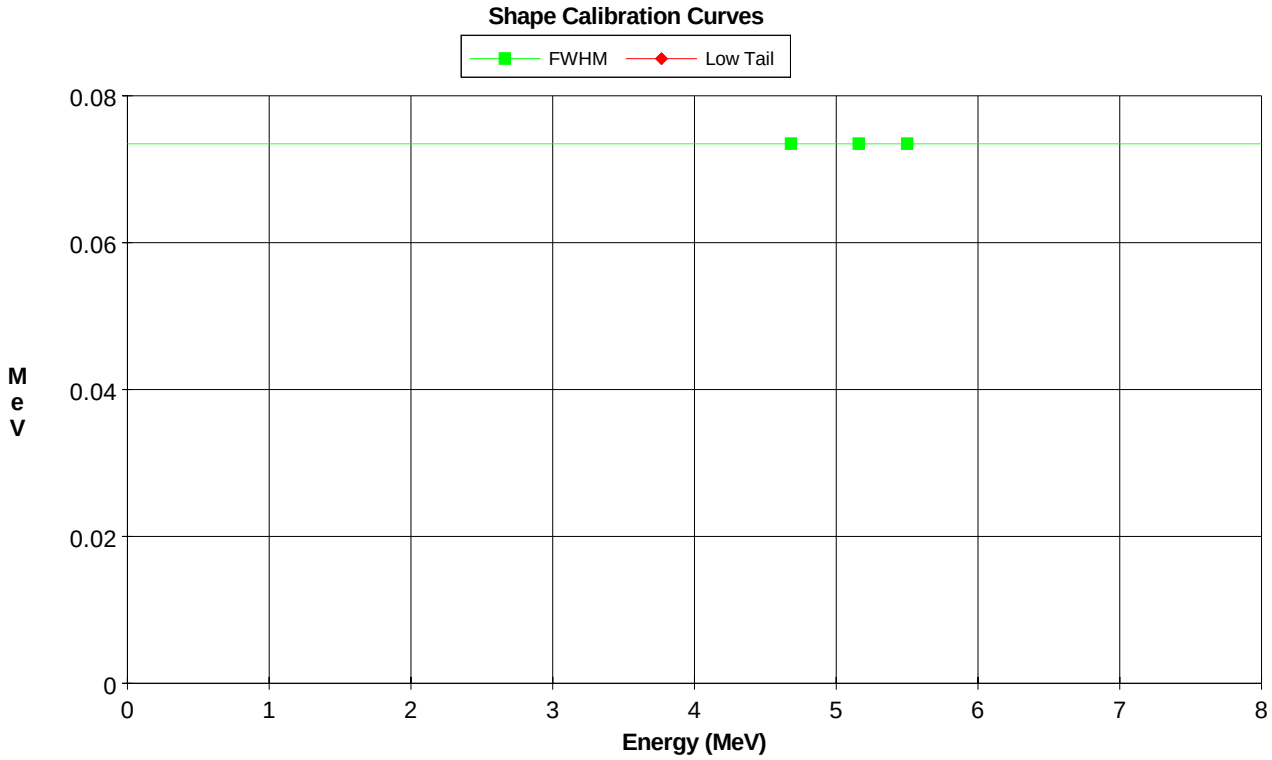
Errors quoted at 1.000 sigma

77.CNF


Live Time :600.090 sec
Real Time :604.700 sec
Start: 2:2.4760(MeV)
Stop : 1024:8.4173(MeV)
Acq. Start :Thu Nov 7 18:40:54 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_5A
Energy = 2.464e+00 MeV +5.813e-03*Ch
FWHM = 7.344e-02 MeV



Datasource: A_3_5A
Energy = 2.464e+00 MeV +5.813e-03*Ch
FWHM = 7.344e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\78\78.CNF

Report Generated On : 11/13/2024 2:36:00 PM

Sample Title : DET 78 SC 110724
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 11/7/2024 6:41:03 PM

Live Time : 600.0 seconds
Real Time : 604.6 seconds

Dead Time : 0.76 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

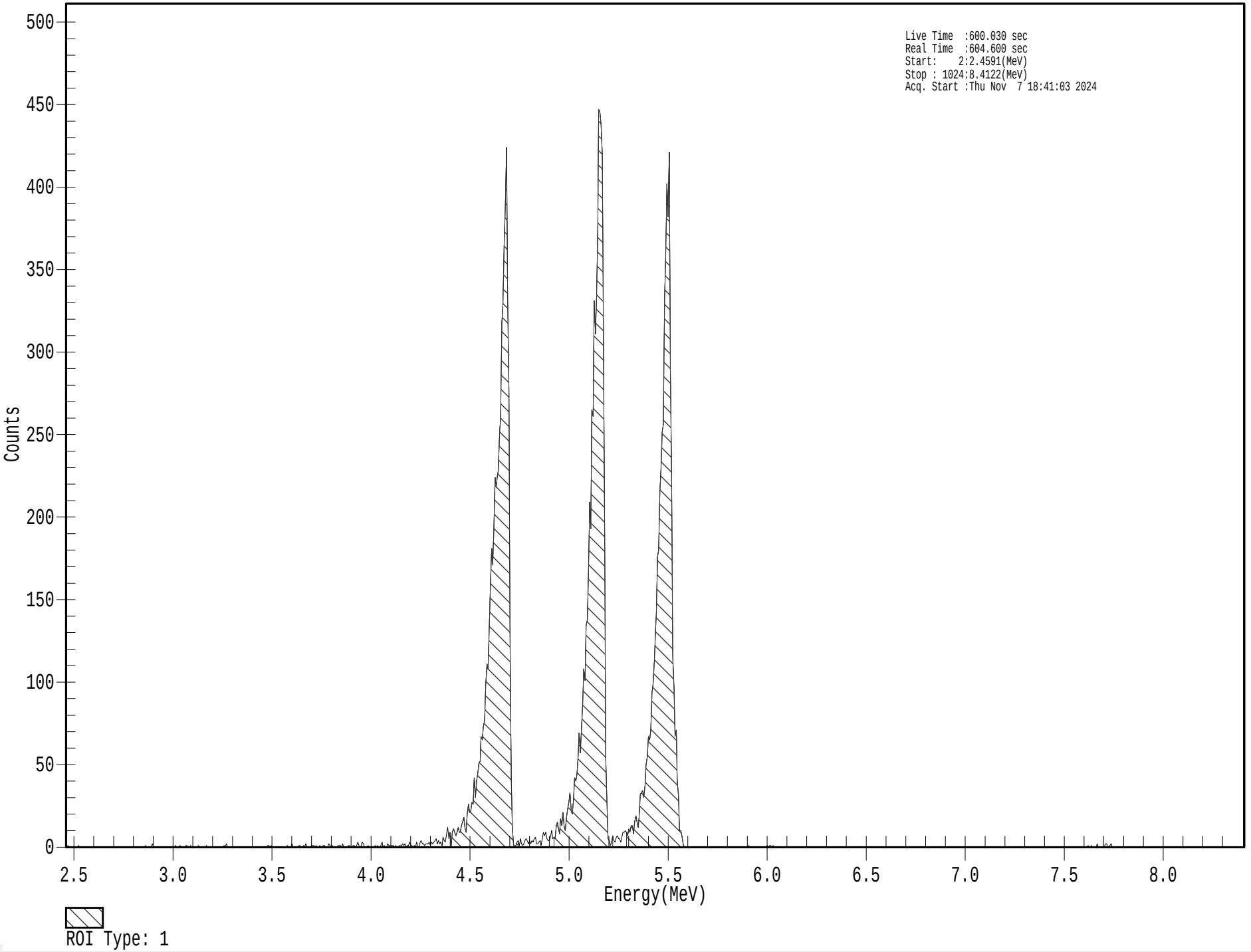
Detector Name: A_3_5B
Sample Title: DET 78 SC 110724
Peak Analysis Performed on: 11/13/2024 2:36:00 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

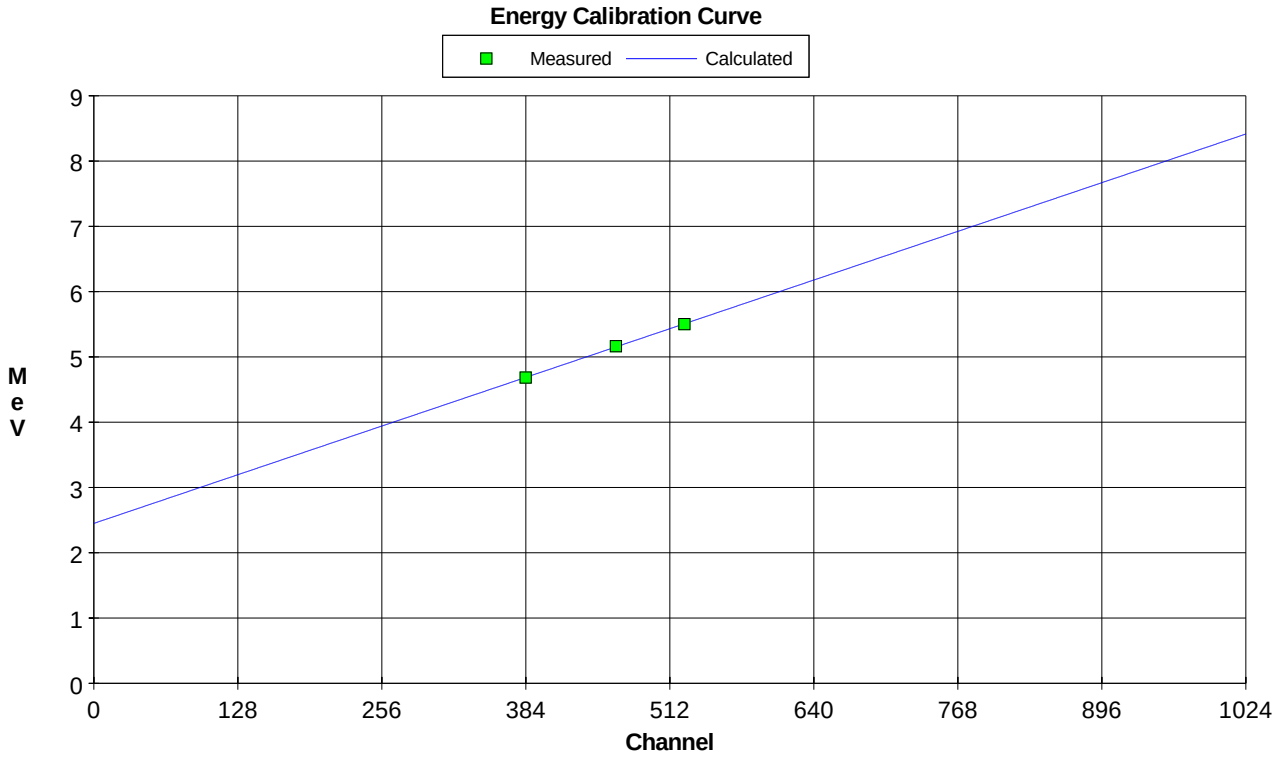
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	336-	394	375.54	4634.94	74.62	6.01E+03	77.55	0.00E+00
2	425-	476	459.50	5124.00	65.94	6.05E+03	77.79	0.00E+00
3	488-	539	519.16	5471.55	59.77	5.37E+03	73.27	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

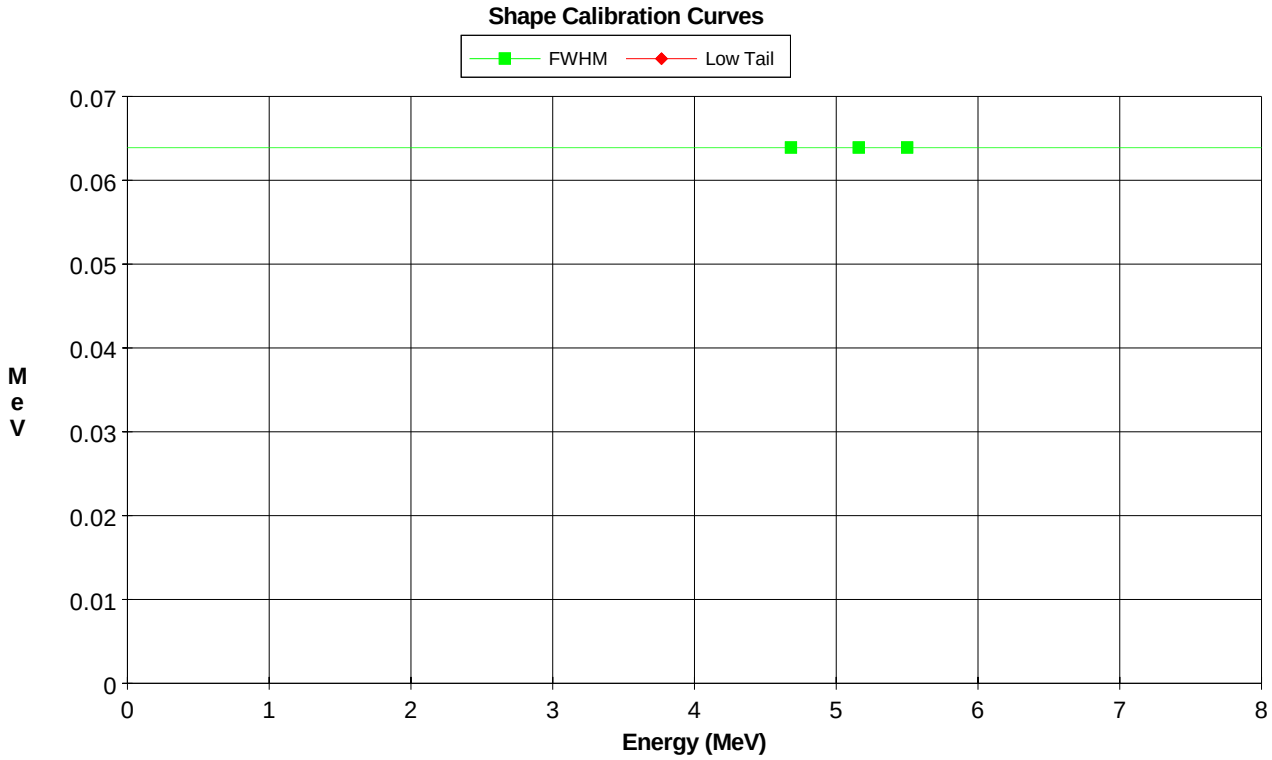
Errors quoted at 1.000 sigma

78.CNF


Live Time :600.030 sec
Real Time :604.600 sec
Start: 2:2.4591(MeV)
Stop : 1024:8.4122(MeV)
Acq. Start :Thu Nov 7 18:41:03 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_5B
Energy = 2.447e+00 MeV +5.825e-03*Ch
FWHM = 6.389e-02 MeV



Datasource: A_3_5B
Energy = 2.447e+00 MeV +5.825e-03*Ch
FWHM = 6.389e-02 MeV

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\79\79.CNF

Report Generated On             : 11/13/2024  2:36:20 PM

Sample Title                    : DET 79 SC 110724
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 11/7/2024   6:53:59 PM

Live Time                       :      600.1 seconds
Real Time                       :      602.9 seconds

Dead Time                       :   0.47 %


              Energy Calibration Used Done On       : 11/7/2024
              Efficiency Calibration Used Done On   : 11/7/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

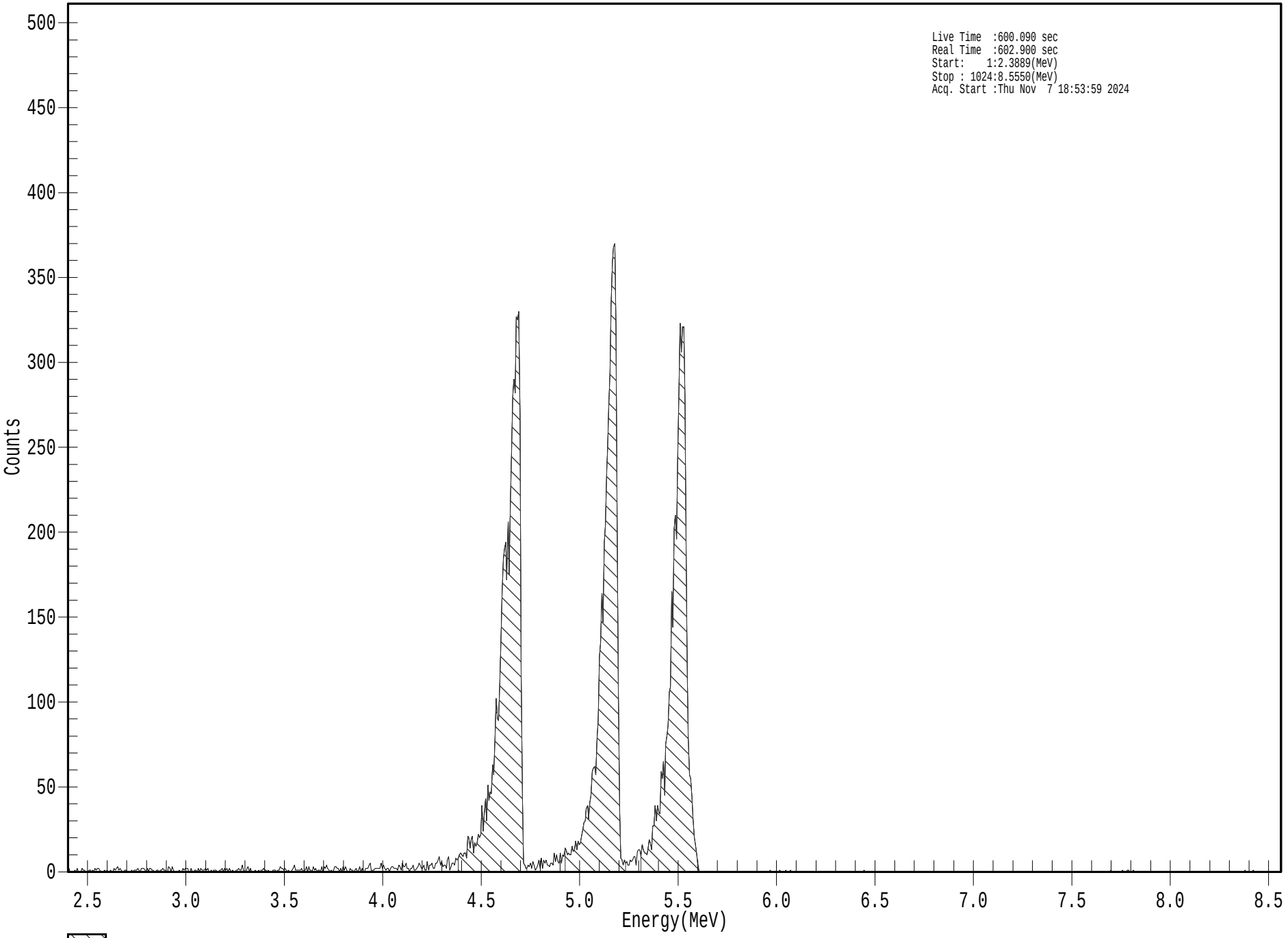
Detector Name: A_3_6A
Sample Title: DET 79 SC 110724
Peak Analysis Performed on: 11/13/2024 2:36:20 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

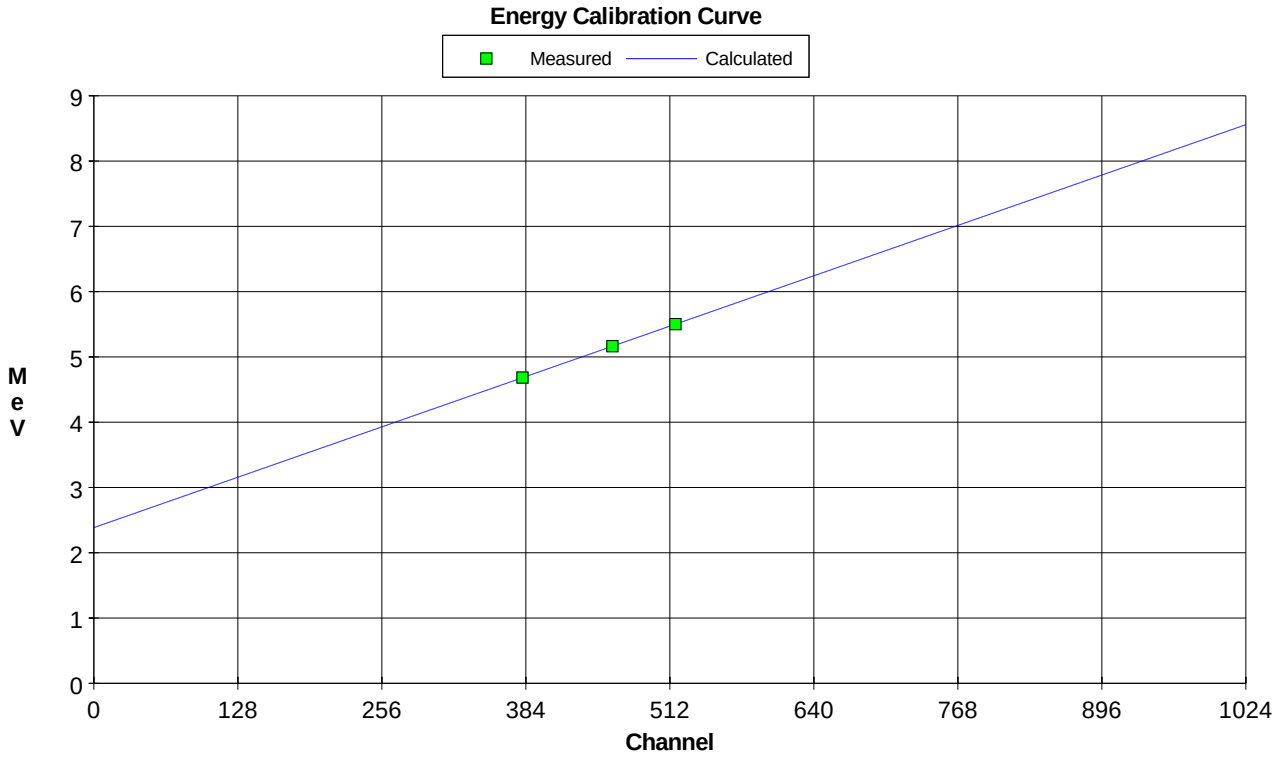
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	330-	388	370.80	4617.86	94.02	5.40E+03	73.49	0.00E+00
2	420-	471	454.74	5123.81	68.01	5.04E+03	70.96	0.00E+00
3	484-	536	514.07	5481.42	66.54	4.66E+03	68.26	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

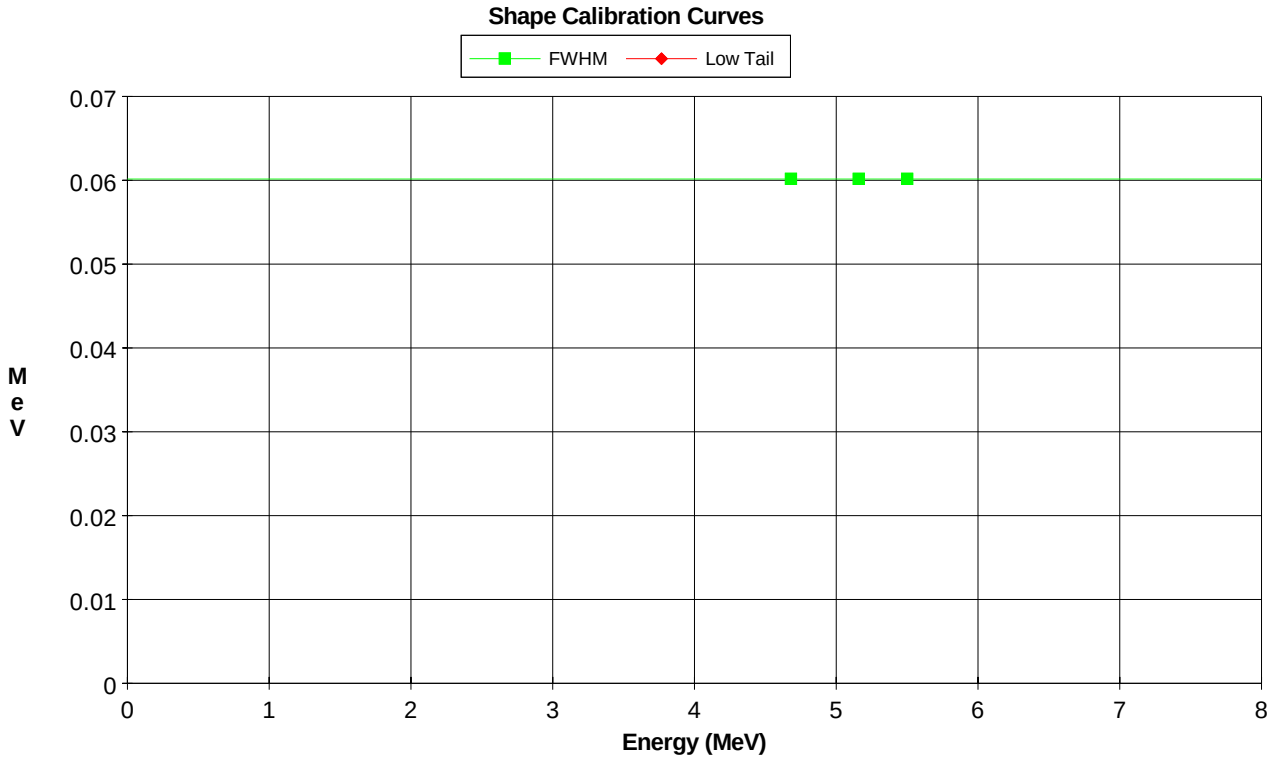
Errors quoted at 1.000 sigma

79.CNF


Live Time :600.090 sec
Real Time :602.900 sec
Start: 1:2.3889(MeV)
Stop : 1024:8.5550(MeV)
Acq. Start :Thu Nov 7 18:53:59 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_6A
Energy = 2.383e+00 MeV +6.027e-03*Ch
FWHM = 6.014e-02 MeV



Datasource: A_3_6A
Energy = 2.383e+00 MeV +6.027e-03*Ch
FWHM = 6.014e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\80\80.CNF

Report Generated On : 11/13/2024 2:36:39 PM

Sample Title : DET 80 SC 110724
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 11/7/2024 6:54:05 PM

Live Time : 600.0 seconds
Real Time : 602.8 seconds

Dead Time : 0.46 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

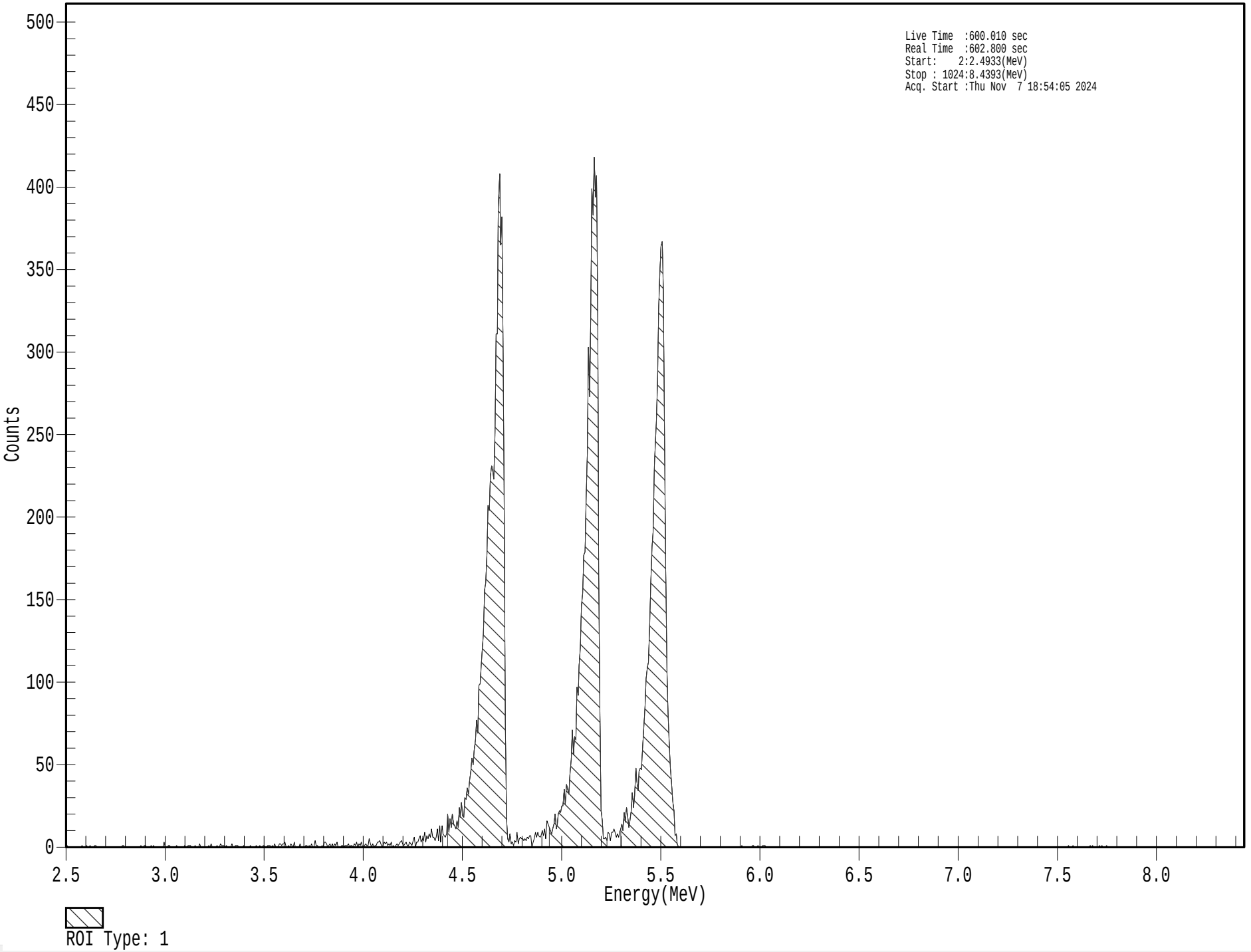
Detector Name: A_3_6B
Sample Title: DET 80 SC 110724
Peak Analysis Performed on: 11/13/2024 2:36:39 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

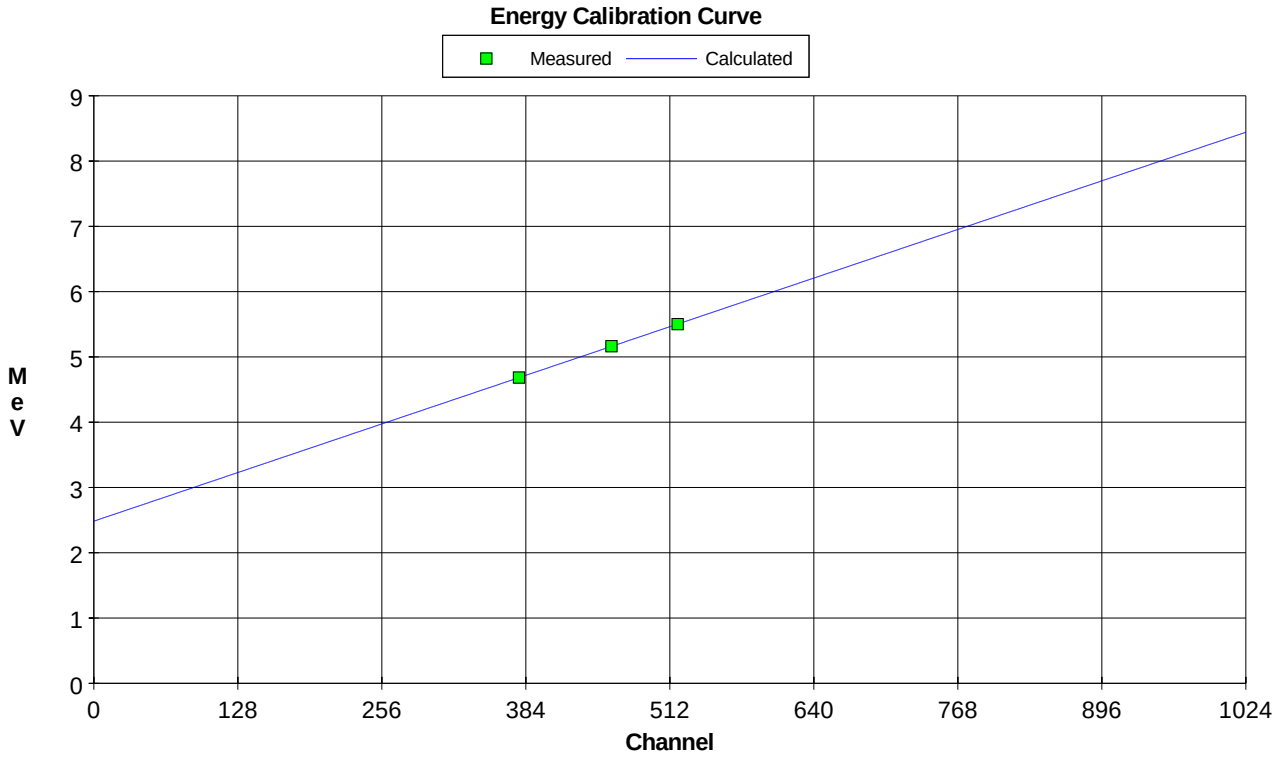
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	333-	390	370.47	4637.08	75.58	6.25E+03	79.05	0.00E+00
2	421-	471	454.27	5124.63	62.48	5.78E+03	76.04	0.00E+00
3	483-	534	513.28	5467.94	67.74	5.30E+03	72.79	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

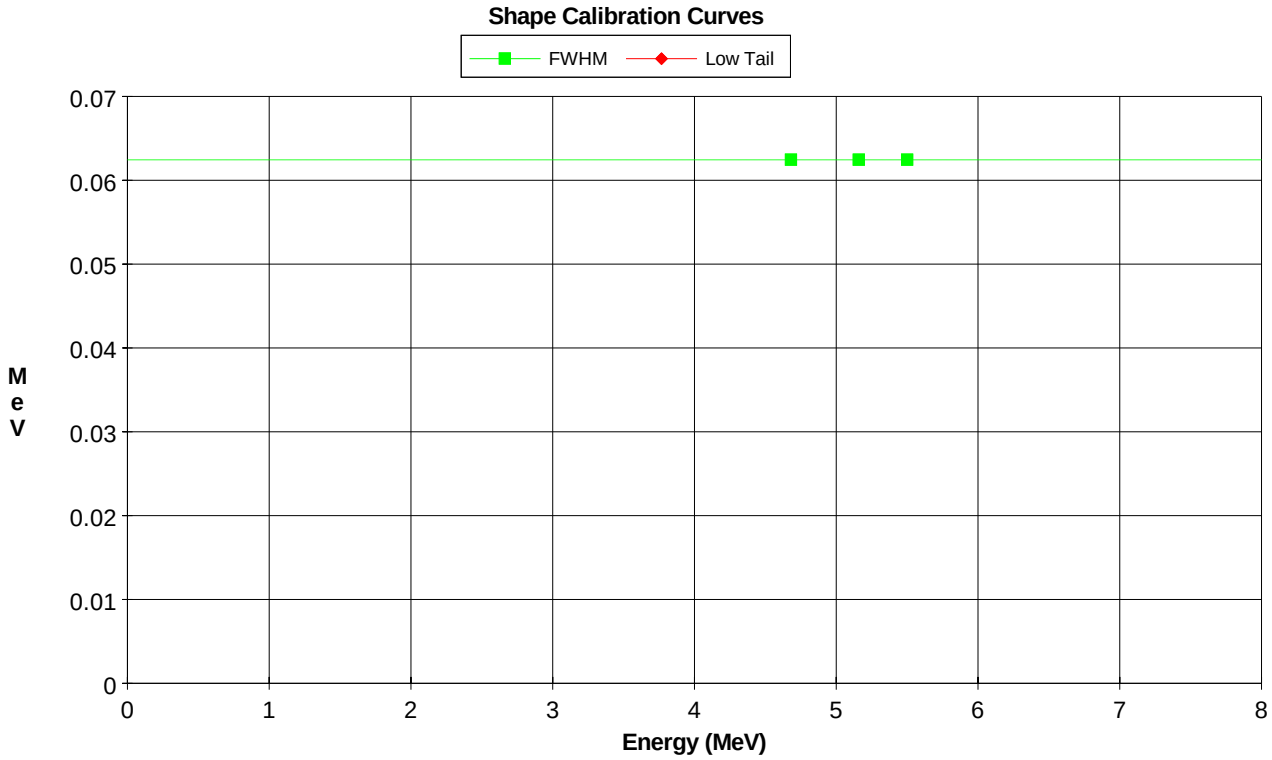
Errors quoted at 1.000 sigma

80.CNF


Live Time :600.010 sec
Real Time :602.800 sec
Start: 2:2.4933(MeV)
Stop : 1024:8.4393(MeV)
Acq. Start :Thu Nov 7 18:54:05 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_6B
Energy = 2.482e+00 MeV +5.818e-03*Ch
FWHM = 6.241e-02 MeV



Datasource: A_3_6B
Energy = 2.482e+00 MeV +5.818e-03*Ch
FWHM = 6.241e-02 MeV

Alpha Spectrometer Monthly Background

April-25

background count time 1000

APR 2025

det	U238 4.2 KeV	U235/U236 4.4 KeV	U234/U233 4.77	U232 5.32	Am-243 5.28 KeV	Am241 5.49 KeV	Pu242 4.9 KeV	Pu239 5.16 KeV	Pu238 5.50 KeV	Po209 4.88 KeV	Po210 5.31 KeV	Th232 4.0 KeV	Th230 4.68 Kev	Th-229 4.84 Kev	Th228 5.42 KeV	Ra226 4.0-5.0 Kev	Poor Resolution Ra226	Np-237 4.78 KeV	Ra224 5.68 KeV	Ra223 5.71 KeV
1	1	4	4	5	4	10	3	4	13	4	3	1	1	6	9	8	13	6	12	8
2	2	3	10	11	11	10	4	5	15	3	10	3	12	6	16	19	35	13	21	16
3	2	1	6	6	8	12	5	3	18	4	5	2	2	7	11	10	15	6	24	18
4	1	1	7	8	6	12	6	3	15	6	5	1	2	7	15	6	12	9	17	14
5																				
6																				
7																				
8																				
9	2	3	12	10	10	11	13	3	16	12	9	1	6	13	15	13	19	19	21	16
10	3	1	1	2	2	3	2	1	4	2	2	2	1	2	4	4	10	3	3	8
11	3	1	2	4	4	2	4	1	6	5	4	3	2	5	5	4	11	7	4	4
12																				
13	2	1	2	5	5	7	3	3	8	3	2	2	3	3	6	6	15	4	10	8
14	3	1	10	6	5	8	13	3	11	10	4	2	5	13	9	13	20	16	13	9
15																				
16																				
17																				
18																				
19	1	1	1	5	5	5	2	6	6	2	3	1	1	4	6	1	5	3	6	10
20	1	1	4	5	5	4	3	2	8	2	4	1	3	4	7	3	8	6	8	7
21	1	1	3	6	6	7	3	4	9	3	5	1	1	5	9	4	7	4	15	16
22																				
23	2	1	8	23	22	10	6	14	15	6	15	2	3	7	20	9	12	9	13	14
24	2	2	6	16	18	4	8	7	17	8	15	2	4	13	18	10	15	11	9	8
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28	1	1	3	8	8	6	2	3	12	2	8	2	2	3	13	2	12	4	10	8
29	3	1	6	9	9	5	5	2	11	5	7	2	5	5	11	10	19	10	5	3
30	1	2	5	11	12	9	3	6	17	4	10	1	4	7	15	8	20	8	10	6
31																				
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33	2	1	5	5	5	1	7	1	5	6	5	1	3	6	6	7	20	9	2	2
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36	2	5	9	10	9	3	5	4	10	5	7	1	8	7	8	15	20	13	3	5
37	2	2	4	6	8	2	6	7	4	6	3	1	5	8	5	10	13	9	3	3
38	1	3	4	16	19	8	7	12	17	6	11	2	5	12	15	9	22	11	8	1
39	3	2	3	18	19	2	2	8	12	2	15	2	4	6	16	7	12	6	2	1
40	1	1	2	2	2	1	2	2	2	2	1	1	2	3	1	3	8	4	2	3
41	1	3	5	10	10	4	10	2	12	8	9	1	1	10	11	7	11	11	4	1
42	1	1	6	5	7	5	2	6	8	1	4	2	5	6	9	6	12	7	6	2
43	1	1	8	2	2	3	5	1	5	4	2	1	9	5	4	11	17	12	3	2
44	1	1	2	11	11	4	5	7	11	4	7	1	1	9	11	3	9	7	3	1

APR_2025

1000

det	U238 4.2 KeV	U235/U236 4.4 KeV	U234/U233 4.77	U232 5.32	Am-243 5.28 KeV	Am241 5.49 KeV	Pu242 4.9 KeV	Pu239 5.16 KeV	Pu238 5.50 KeV	Po209 4.88 KeV	Po210 5.31 KeV	Th232 4.0 KeV	Th230 4.68 Kev	Th-229 4.84 Kev	Th228 5.42 KeV	Ra226 4.0-5.0 Kev	Poor Resolution Ra226	Np-237 4.78 KeV	Ra224 5.68 KeV	Ra223 5.71 KeV
45																				
46																				
47																				
48																				
49																				
50																				
51	1	1	2	2	5	6	1	4	7	1	1	1	3	3	3	3	7	3	6	2
52	1	1	2	1	1	7	1	1	7	1	1	1	3	1	4	4	23	2	7	2
53																				
54																				
55	1	1	2	6	7	4	2	2	9	1	6	1	2	2	7	4	16	3	4	3
56	1	2	1	6	4	5	1	1	9	1	4	1	1	1	6	3	5	2	7	4
57	1	1	1	6	6	4	1	6	5	1	2	1	1	2	5	1	14	1	3	1
58	1	1	1	6	6	1	1	4	1	1	4	2	1	1	4	2	7	1	2	2
59																				
60																				
61	2	1	2	1	1	3	1	1	3	1	1	2	3	1	4	5	10	3	3	1
62	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8	1	3	4
63																				
64																				
65	1	1	1	4	4	1	1	3	3	1	3	1	1	2	3	2	8	1	1	1
66	1	2	1	1	1	1	3	1	1	3	1	1	1	3	1	4	37	3	1	1
67	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	1	2	2
68	1	1	2	1	1	2	1	1	2	1	1	1	1	1	1	4	6	2	2	1
69	1	1	1	1	1	2	1	1	3	1	1	1	2	1	2	2	3	1	2	1
70	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	1	1	1
71	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	3	1	2	2
72	1	1	1	2	2	1	1	1	3	1	2	1	1	1	2	1	1	1	2	1
73																				
74																				
75	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	1	1	1
76	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	3	1	3	2
77	2	2	9	6	7	6	6	6	7	1	4	4	7	5	7	13	22	9	5	1
78	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	1	1	1
79	1	1	1	1	1	7	1	1	7	1	1	3	1	1	2	2	5	1	6	1
80	1	1	1	1	1	3	1	1	3	1	1	1	1	1	1	1	4	1	3	1

background count time: 1000 Min | APR_2025 | Poor Resolution

DET Eff.	DET Eff. Uncert	DET ID	U238 4.2 KeV	U235/U236 4.4 KeV	U234/U233 4.77	U232 5.32	Am-243 5.28 KeV	Am241 5.49 KeV	Pu242 4.9 KeV	Pu239 5.16 KeV	Pu238 5.50 KeV	Po209 4.88 KeV	Po210 5.31 KeV	Th232 4.0 KeV	Th230 4.68 Kev	Th-229 4.84 Kev	Th228 5.42 KeV	Ra226 .0-5.0 Ke	Ra226 0	Np-237 4.78 KeV	Ra224 5.68 KeV	Ra223 5.71 KeV
23.2%	0.7%	1	0.001	0.004	0.004	0.005	0.004	0.010	0.003	0.004	0.013	0.004	0.003	0.001	0.001	0.006	0.009	0.008	0.013	0.006	0.012	0.008
27.1%	1.2%	2	0.002	0.003	0.010	0.011	0.011	0.010	0.004	0.005	0.015	0.003	0.010	0.003	0.012	0.006	0.016	0.019	0.035	0.013	0.021	0.016
26.4%	0.7%	3	0.002	0.001	0.006	0.006	0.008	0.012	0.005	0.003	0.018	0.004	0.005	0.002	0.002	0.007	0.011	0.010	0.015	0.006	0.024	0.018
24.1%	0.6%	4	0.001	0.001	0.007	0.008	0.006	0.012	0.006	0.003	0.015	0.006	0.005	0.001	0.002	0.007	0.015	0.006	0.012	0.009	0.017	0.014
		5																				
		6																				
		7																				
		8																				
27.1%	0.6%	9	0.002	0.003	0.012	0.010	0.010	0.011	0.013	0.003	0.016	0.012	0.009	0.001	0.006	0.013	0.015	0.013	0.019	0.019	0.021	0.016
30.6%	0.4%	10	0.003	0.001	0.001	0.002	0.002	0.003	0.002	0.001	0.004	0.002	0.002	0.002	0.001	0.002	0.004	0.004	0.010	0.003	0.003	0.008
27.9%	0.5%	11	0.003	0.001	0.002	0.004	0.004	0.002	0.004	0.001	0.006	0.005	0.004	0.003	0.002	0.005	0.005	0.004	0.011	0.007	0.004	0.004
		12																				
26.4%	0.7%	13	0.002	0.001	0.002	0.005	0.005	0.007	0.003	0.003	0.008	0.003	0.002	0.002	0.003	0.003	0.006	0.006	0.015	0.004	0.010	0.008
25.4%	0.9%	14	0.003	0.001	0.010	0.006	0.005	0.008	0.013	0.003	0.011	0.010	0.004	0.002	0.005	0.013	0.009	0.013	0.020	0.016	0.013	0.009
		15																				
		16																				
		17																				
		18																				
28.6%	0.4%	19	0.001	0.001	0.001	0.005	0.005	0.005	0.002	0.006	0.006	0.002	0.003	0.001	0.001	0.004	0.006	0.001	0.005	0.003	0.006	0.010
24.1%	0.7%	20	0.001	0.001	0.004	0.005	0.005	0.004	0.003	0.002	0.008	0.002	0.004	0.001	0.003	0.004	0.007	0.003	0.008	0.006	0.008	0.007
31.1%	1.0%	21	0.001	0.001	0.003	0.006	0.006	0.007	0.003	0.004	0.009	0.003	0.005	0.001	0.001	0.005	0.009	0.004	0.007	0.004	0.015	0.016
		22																				
29.0%	2.5%	23	0.002	0.001	0.008	0.023	0.022	0.010	0.006	0.014	0.015	0.006	0.015	0.002	0.003	0.007	0.020	0.009	0.012	0.009	0.013	0.014
25.3%	0.7%	24	0.002	0.002	0.006	0.016	0.018	0.004	0.008	0.007	0.017	0.008	0.015	0.002	0.004	0.013	0.018	0.010	0.015	0.011	0.009	0.008
24.1%	0.8%	25	0.001	0.002	0.009	0.013	0.013	0.010	0.002	0.004	0.017	0.002	0.010	0.005	0.007	0.004	0.017	0.010	0.030	0.009	0.015	0.010
22.6%	1.1%	26	0.002	0.002	0.007	0.018	0.017	0.008	0.005	0.013	0.010	0.003	0.010	0.001	0.004	0.013	0.019	0.011	0.018	0.009	0.007	0.003
23.2%	1.1%	27	0.002	0.001	0.006	0.003	0.005	0.006	0.007	0.003	0.008	0.007	0.002	0.003	0.004	0.008	0.005	0.007	0.014	0.011	0.007	0.008
26.1%	0.4%	28	0.001	0.001	0.003	0.008	0.008	0.006	0.002	0.003	0.012	0.002	0.008	0.002	0.002	0.003	0.013	0.002	0.012	0.004	0.010	0.008
23.7%	0.3%	29	0.003	0.001	0.006	0.009	0.009	0.005	0.005	0.002	0.011	0.005	0.007	0.002	0.005	0.005	0.011	0.010	0.019	0.010	0.005	0.003
27.2%	1.1%	30	0.001	0.002	0.005	0.011	0.012	0.009	0.003	0.006	0.017	0.004	0.010	0.001	0.004	0.007	0.015	0.008	0.020	0.008	0.010	0.006
		31																				
28.2%	0.2%	32	0.001	0.003	0.003	0.004	0.004	0.005	0.003	0.002	0.007	0.003	0.003	0.001	0.001	0.003	0.005	0.006	0.010	0.003	0.006	0.003
23.1%	0.6%	A-4-1A	0.002	0.001	0.005	0.005	0.005	0.001	0.007	0.001	0.005	0.006	0.005	0.001	0.003	0.006	0.006	0.007	0.020	0.009	0.002	0.002
21.3%	1.5%	A-4-1B	0.001	0.001	0.003	0.008	0.008	0.005	0.005	0.005	0.008	0.005	0.005	0.001	0.002	0.006	0.009	0.005	0.010	0.007	0.008	0.005
21.4%	0.8%	A-4-2A	0.004	0.003	0.010	0.007	0.007	0.007	0.004	0.003	0.011	0.004	0.004	0.004	0.012	0.004	0.006	0.018	0.030	0.014	0.009	0.006
22.8%	0.5%	A-4-2B	0.002	0.005	0.009	0.010	0.009	0.003	0.005	0.004	0.010	0.005	0.007	0.001	0.008	0.007	0.008	0.015	0.020	0.013	0.003	0.005
23.2%	0.8%	A-4-3A	0.002	0.002	0.004	0.006	0.008	0.002	0.006	0.007	0.004	0.006	0.003	0.001	0.005	0.008	0.005	0.010	0.013	0.009	0.003	0.003
21.7%	0.9%	A-4-3B	0.001	0.003	0.004	0.016	0.019	0.008	0.007	0.012	0.017	0.006	0.011	0.002	0.005	0.012	0.015	0.009	0.022	0.011	0.008	0.001
22.9%	0.7%	A-4-4A	0.003	0.002	0.003	0.018	0.019	0.002	0.002	0.008	0.012	0.002	0.015	0.002	0.004	0.006	0.016	0.007	0.012	0.006	0.002	0.001
22.9%	0.4%	A-4-4B	0.001	0.001	0.002	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.003	0.001	0.003	0.008	0.004	0.002	0.003
22.2%	1.3%	A-4-5A	0.001	0.003	0.005	0.010	0.010	0.004	0.010	0.002	0.012	0.008	0.009	0.001	0.001	0.010	0.011	0.007	0.011	0.011	0.004	0.001
22.8%	0.9%	A-4-5B	0.001	0.001	0.006	0.005	0.007	0.005	0.002	0.006	0.008	0.001	0.004	0.002	0.005	0.006	0.009	0.006	0.012	0.007	0.006	0.002
23.5%	0.7%	A-4-6A	0.001	0.001	0.008	0.002	0.002	0.003	0.005	0.001	0.005	0.004	0.002	0.001	0.009	0.005	0.004	0.011	0.017	0.012	0.003	0.002
20.9%	0.3%	A-4-6B	0.001	0.001	0.002	0.011	0.011	0.004	0.005	0.007	0.011	0.004	0.007	0.001	0.001	0.009	0.011	0.003	0.009	0.007	0.003	0.001

background count time 1000 Min APR_2025 Poor Resolution

DET Eff.	DET Eff. Uncert	DET ID	U238 4.2 KeV	U235/U236 4.4 KeV	U234/U233 4.77	U232 5.32	Am-243 5.28 KeV	Am241 5.49 KeV	Pu242 4.9 KeV	Pu239 5.16 KeV	Pu238 5.50 KeV	Po209 4.88 KeV	Po210 5.31 KeV	Th232 4.0 KeV	Th230 4.68 Kev	Th-229 4.84 Kev	Th228 5.42 KeV	Ra226 .0-5.0 Ke	Ra226 0	Np-237 4.78 KeV	Ra224 5.68 KeV	Ra223 5.71 KeV
		A-1-1A																				
		A-1-1B																				
		A-1-2A																				
		A-1-2B																				
		A-1-3A																				
		A-1-3B																				
23.3%	1.0%	A-1-4A	0.001	0.001	0.002	0.002	0.005	0.006	0.001	0.004	0.007	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.007	0.003	0.006	0.002
22.9%	0.2%	A-1-4B	0.001	0.001	0.002	0.001	0.001	0.007	0.001	0.001	0.007	0.001	0.001	0.001	0.003	0.001	0.004	0.004	0.023	0.002	0.007	0.002
21.2%	0.4%	A-1-5A																				
25.9%	0.8%	A-1-5B																				
26.5%	3.5%	A-1-6A	0.001	0.001	0.002	0.006	0.007	0.004	0.002	0.002	0.009	0.001	0.006	0.001	0.002	0.002	0.007	0.004	0.016	0.003	0.004	0.003
23.2%	0.4%	A-1-6B	0.001	0.002	0.001	0.006	0.004	0.005	0.001	0.001	0.009	0.001	0.004	0.001	0.001	0.001	0.006	0.003	0.005	0.002	0.007	0.004
26.2%	0.1%	A-2-1A	0.001	0.001	0.001	0.006	0.006	0.004	0.001	0.006	0.005	0.001	0.002	0.001	0.001	0.002	0.005	0.001	0.014	0.001	0.003	0.001
28.9%	1.1%	A-2-1B	0.001	0.001	0.001	0.006	0.006	0.001	0.001	0.004	0.001	0.001	0.004	0.002	0.001	0.001	0.004	0.002	0.007	0.001	0.002	0.002
25.4%	0.9%	A-2-2A																				
		A-2-3B																				
26.6%	0.6%	A-2-3A	0.002	0.001	0.002	0.001	0.001	0.003	0.001	0.001	0.003	0.001	0.001	0.002	0.003	0.001	0.004	0.005	0.010	0.003	0.003	0.001
23.4%	0.8%	A-2-3B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.008	0.001	0.003	0.004
		A-2-3A																				
		A-2-3B																				
25.8%	1.3%	A-2-5A	0.001	0.001	0.001	0.004	0.004	0.001	0.001	0.003	0.003	0.001	0.003	0.001	0.001	0.002	0.003	0.002	0.008	0.001	0.001	0.001
26.5%	0.6%	A-2-5B	0.001	0.002	0.001	0.001	0.001	0.001	0.003	0.001	0.001	0.003	0.001	0.001	0.001	0.003	0.001	0.004	0.037	0.003	0.001	0.001
25.2%	0.6%	A-2-6A	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.020	0.001	0.002	0.002
26.7%	0.4%	A-2-6B	0.001	0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.006	0.002	0.002	0.001
26.5%	1.3%	A-3-1A	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.003	0.001	0.001	0.001	0.002	0.001	0.002	0.002	0.003	0.001	0.002	0.001
27.7%	0.5%	A-3-1B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.001
23.7%	0.8%	A-3-2A	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.002	0.002
25.7%	0.2%	A-3-2B	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.003	0.001	0.002	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.001
		A-3-3A																				
		A-3-3B																				
27.6%	0.6%	A-3-4A	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.014	0.001	0.001	0.001
27.1%	0.2%	A-3-4B	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.003	0.002
26.5%	1.1%	A-3-5A	0.002	0.002	0.009	0.006	0.007	0.006	0.006	0.006	0.007	0.001	0.004	0.004	0.007	0.005	0.007	0.013	0.022	0.009	0.005	0.001
26.3%	0.4%	A-3-5B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.001	0.001	0.001
22.8%	1.2%	A-3-6A	0.001	0.001	0.001	0.001	0.001	0.007	0.001	0.001	0.007	0.001	0.001	0.003	0.001	0.001	0.002	0.002	0.005	0.001	0.006	0.001
26.2%	1.5%	A-3-6B	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.001	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.001	0.003	0.001

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\01.CNF

Report Generated On : 4/2/2025 11:36:47 AM

Sample Title : DET 01 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:24 PM

Live Time : 60000.5 seconds
Real Time : 60000.5 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

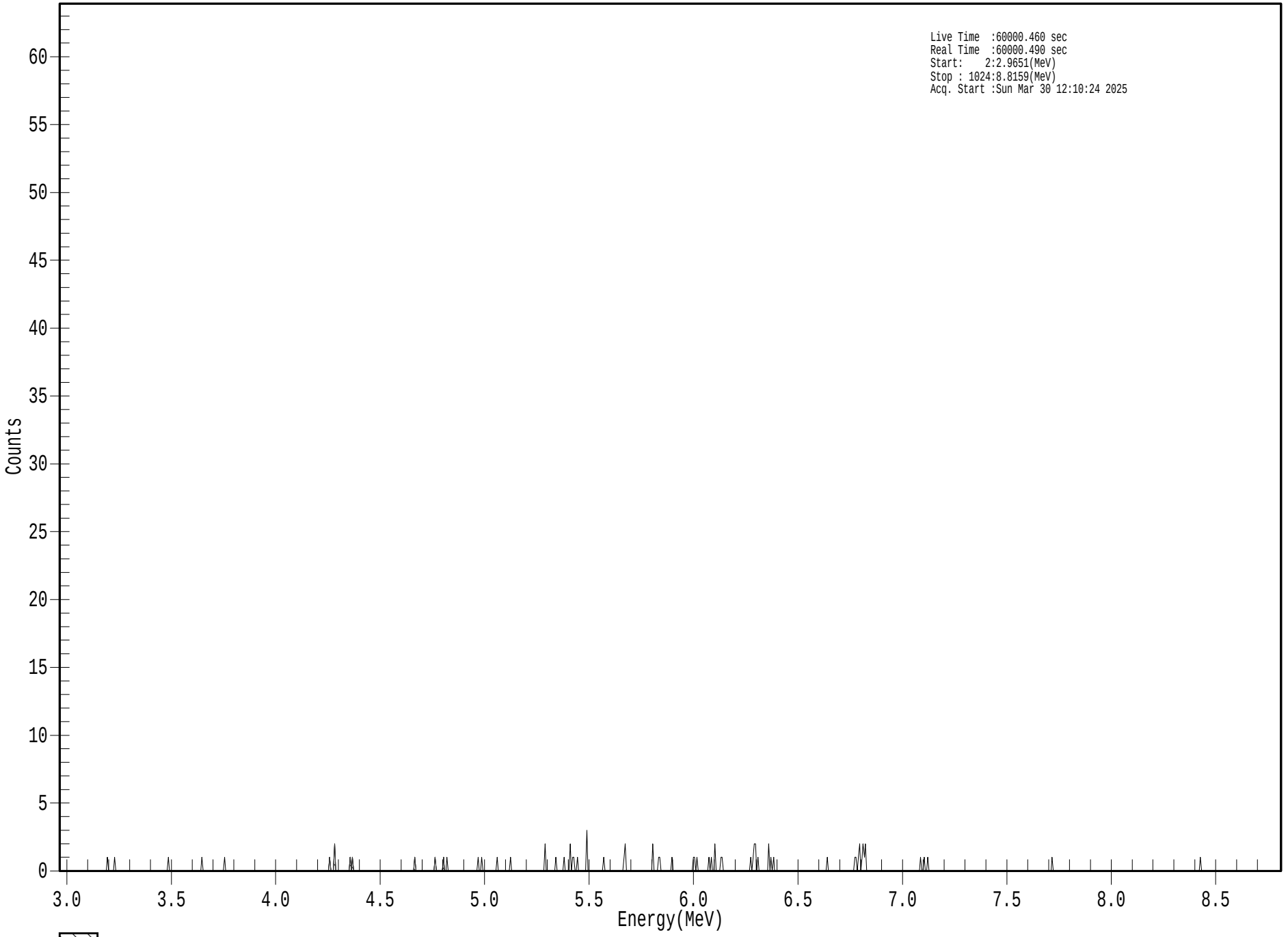
Detector Name: DET01
Sample Title: DET 01 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 11:36:47 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	192-	324	265.25	4472.16	5.72	8.00E+00	2.83	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

01.CNF


Live Time :60000.460 sec
Real Time :60000.490 sec
Start: 2:2.9651(MeV)
Stop : 1024:8.8159(MeV)
Acq. Start :Sun Mar 30 12:10:24 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\02.CNF

Report Generated On : 4/2/2025 11:39:27 AM

Sample Title : DET 02 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:26 PM

Live Time : 60000.7 seconds
Real Time : 60000.7 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

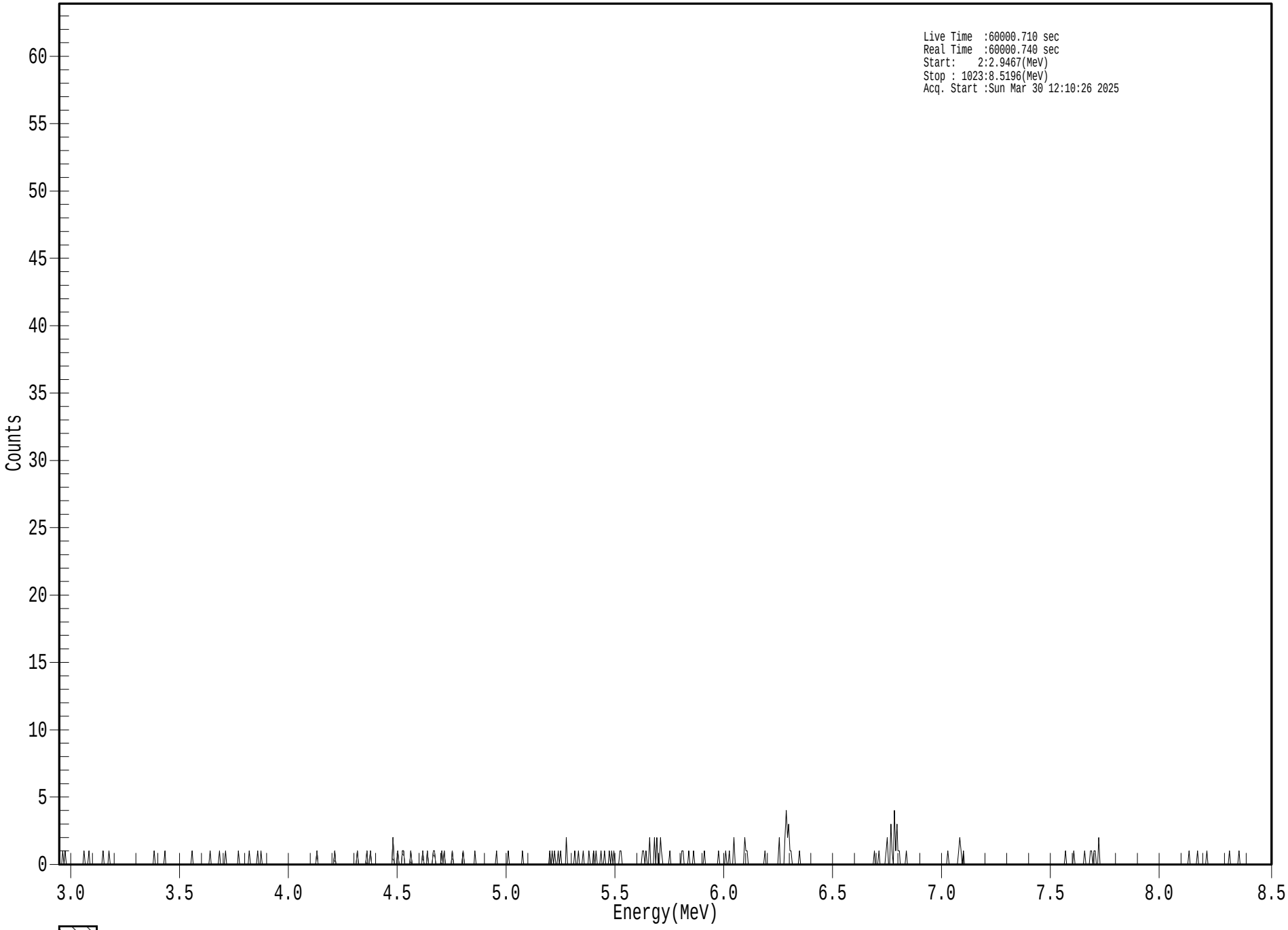
Detector Name: DET02
Sample Title: DET 02 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 11:39:27 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	204-	343	291.84	4528.75	5.46	1.90E+01	4.36	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

02.CNF


Live Time :60000.710 sec
Real Time :60000.740 sec
Start: 2:2.9467(MeV)
Stop : 1023:8.5196(MeV)
Acq. Start :Sun Mar 30 12:10:26 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\03.CNF

Report Generated On : 4/2/2025 11:54:47 AM

Sample Title : DET 03 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:28 PM

Live Time : 60001.1 seconds
Real Time : 60001.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

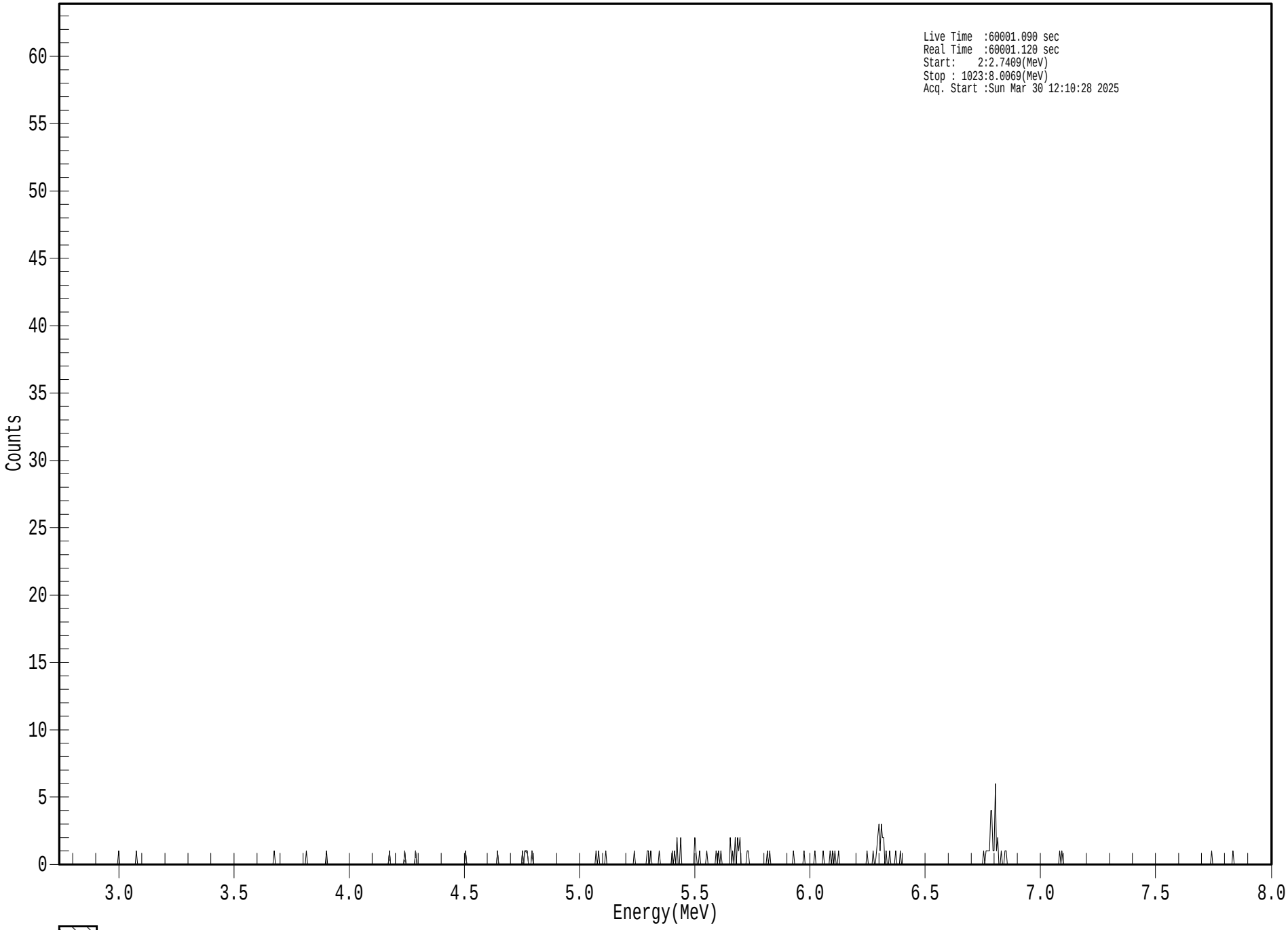
Detector Name: DET03
Sample Title: DET 03 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 11:54:47 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	256-	403	356.70	4570.34	5.16	1.00E+01	3.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

03.CNF


Live Time :60001.090 sec
Real Time :60001.120 sec
Start: 2:2.7409(MeV)
Stop : 1023:8.0069(MeV)
Acq. Start :Sun Mar 30 12:10:28 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\04.CNF

Report Generated On : 4/2/2025 11:57:25 AM

Sample Title : DET 04 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:30 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

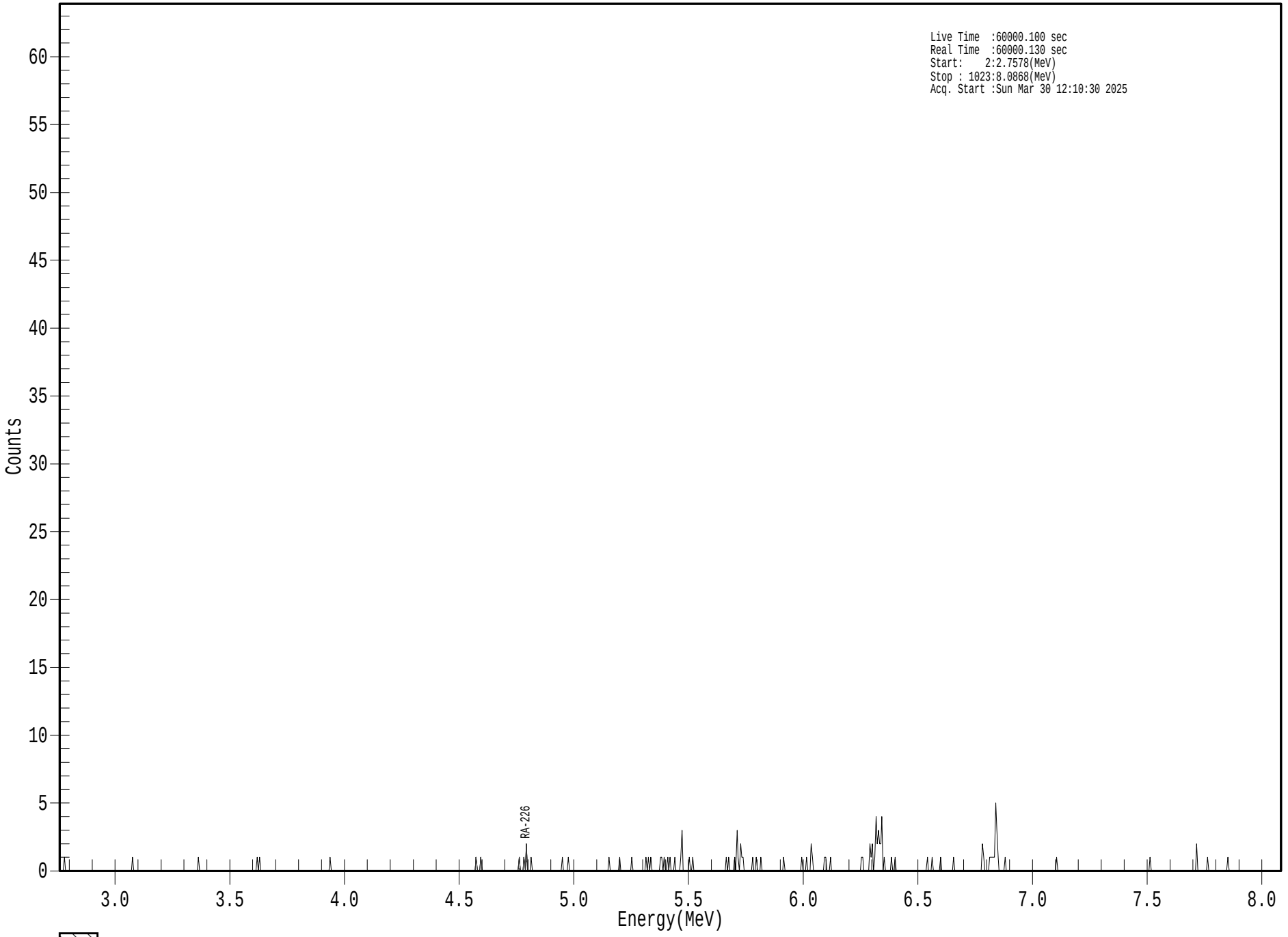
Detector Name: DET04
Sample Title: DET 04 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 11:57:25 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	250-	395	377.33	4716.81	5.22	6.00E+00	2.45	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

04.CNF


Live Time :60000.100 sec
Real Time :60000.130 sec
Start: 2:2.7578(MeV)
Stop : 1023:8.0868(MeV)
Acq. Start :Sun Mar 30 12:10:30 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\09.CNF

Report Generated On             : 4/2/2025   11:59:34 AM

Sample Title                    : DET 09 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:10:40 PM

Live Time                       :    60000.8 seconds
Real Time                       :    60000.8 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

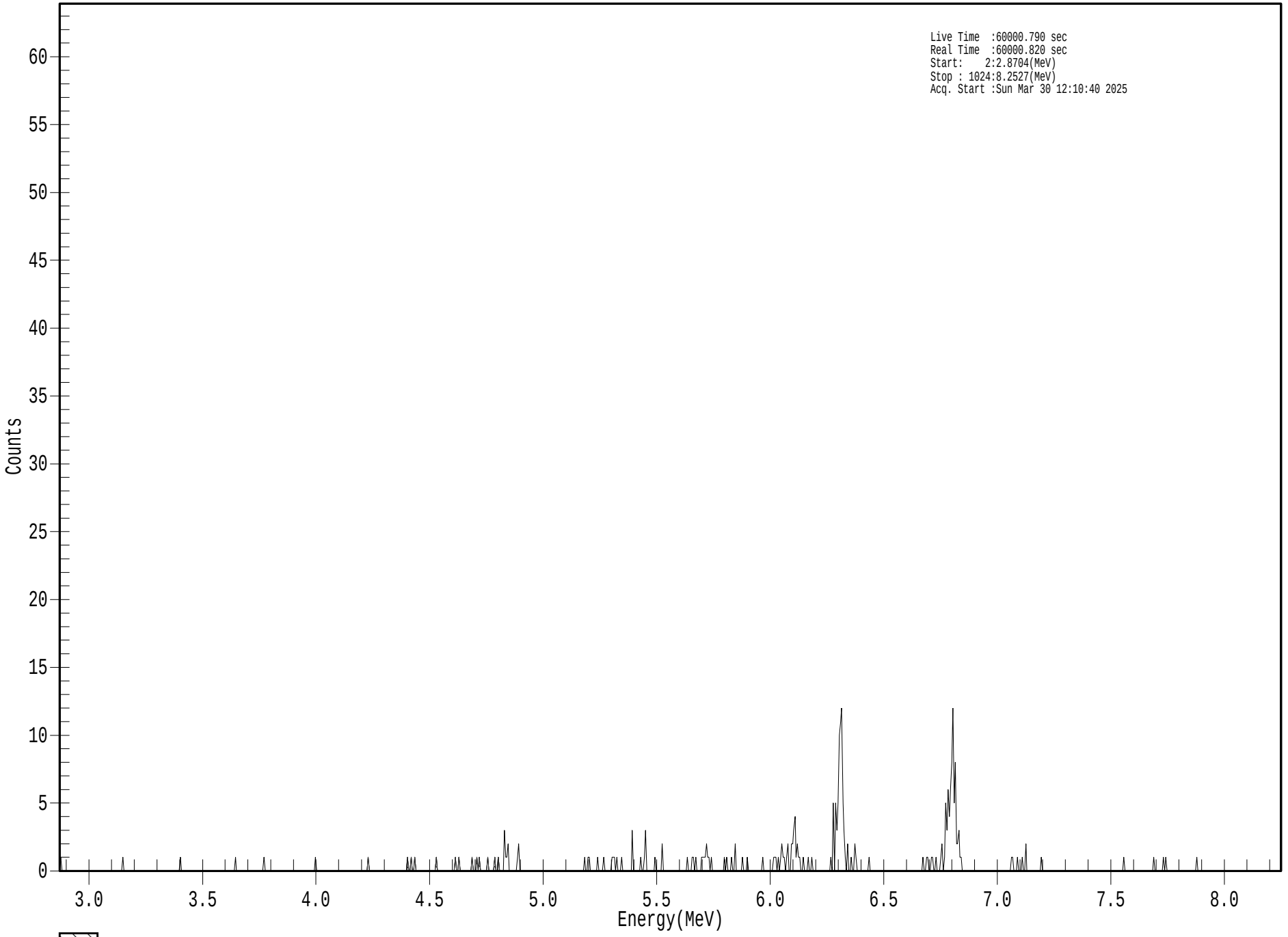
Detector Name: DET09
Sample Title: DET 09 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 11:59:34 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	226-	370	329.23	4593.77	5.27	1.30E+01	3.61	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

09.CNF


Live Time :60000.790 sec
Real Time :60000.820 sec
Start: 2:2.8704(MeV)
Stop : 1024:8.2527(MeV)
Acq. Start :Sun Mar 30 12:10:40 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\10.CNF

Report Generated On : 4/2/2025 12:01:42 PM

Sample Title : DET 10 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:41 PM

Live Time : 60000.8 seconds
Real Time : 60000.8 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

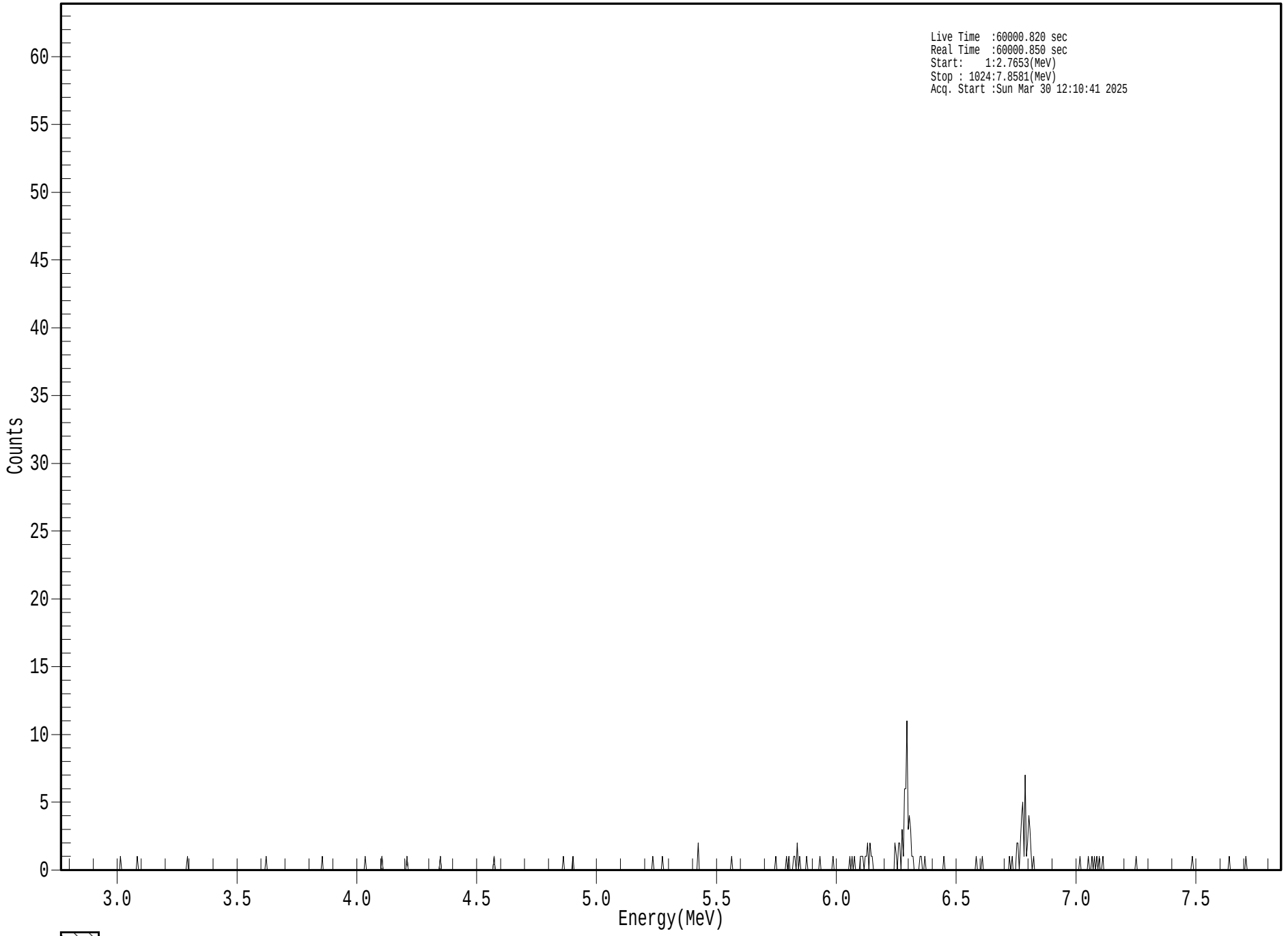
Detector Name: DET10
Sample Title: DET 10 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:01:42 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	259-	412	311.00	4308.60	4.98	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

10.CNF


Live Time :60000.820 sec
Real Time :60000.850 sec
Start: 1:2.7653(MeV)
Stop : 1024:7.8581(MeV)
Acq. Start :Sun Mar 30 12:10:41 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\11.CNF

Report Generated On : 4/2/2025 12:48:24 PM

Sample Title : DET 11 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:43 PM

Live Time : 60000.9 seconds
Real Time : 60000.9 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

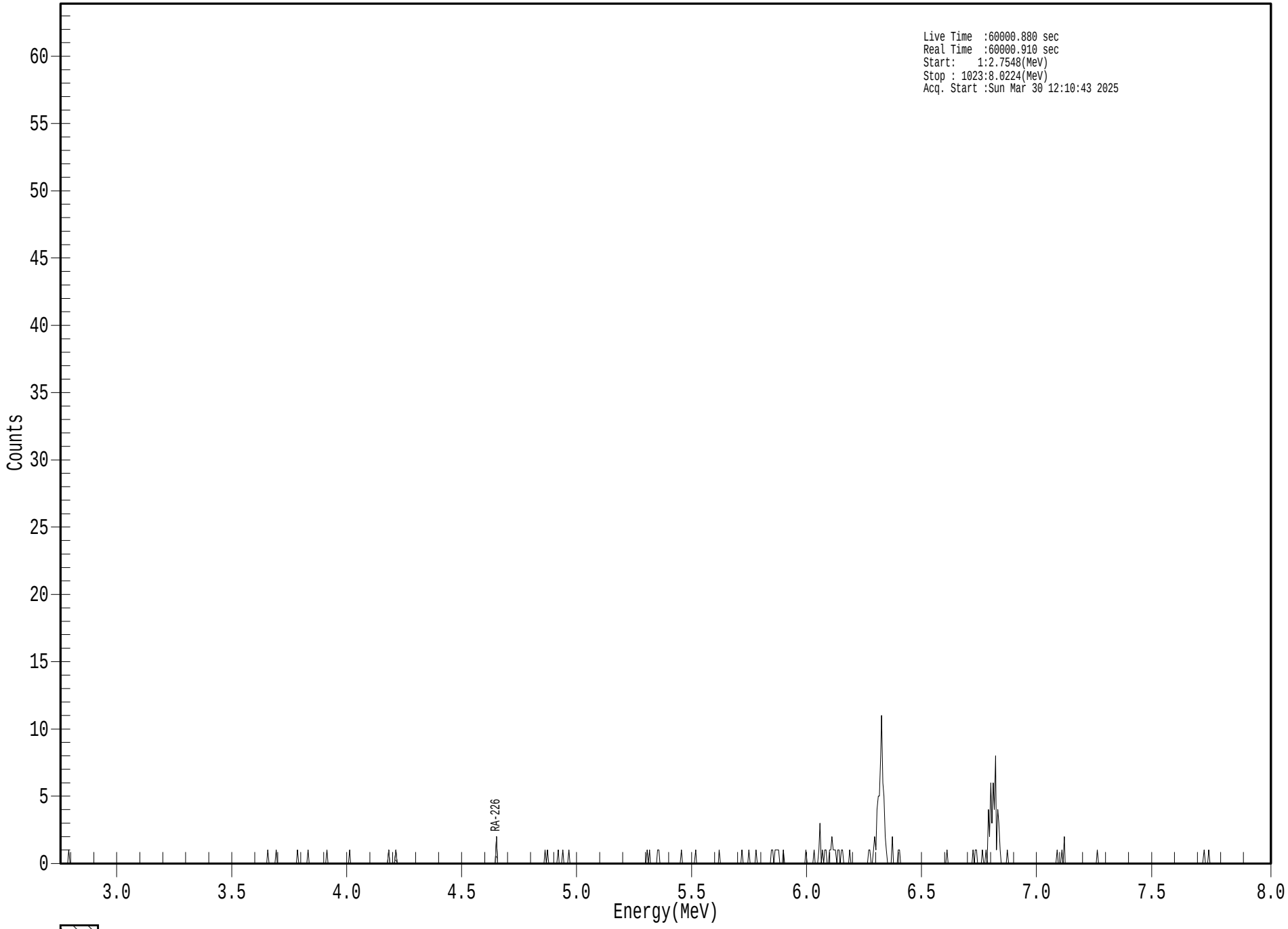
Detector Name: DET11
Sample Title: DET 11 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:48:24 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	253-	400	325.00	4424.79	5.15	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

11.CNF


Live Time :60000.880 sec
Real Time :60000.910 sec
Start: 1:2.7548(MeV)
Stop : 1023:8.0224(MeV)
Acq. Start :Sun Mar 30 12:10:43 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

```
**************************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**************************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\13.CNF

Report Generated On             : 4/2/2025   12:50:27 PM

Sample Title                    : DET 13 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:10:45 PM

Live Time                       :    60000.7 seconds
Real Time                       :    60000.7 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

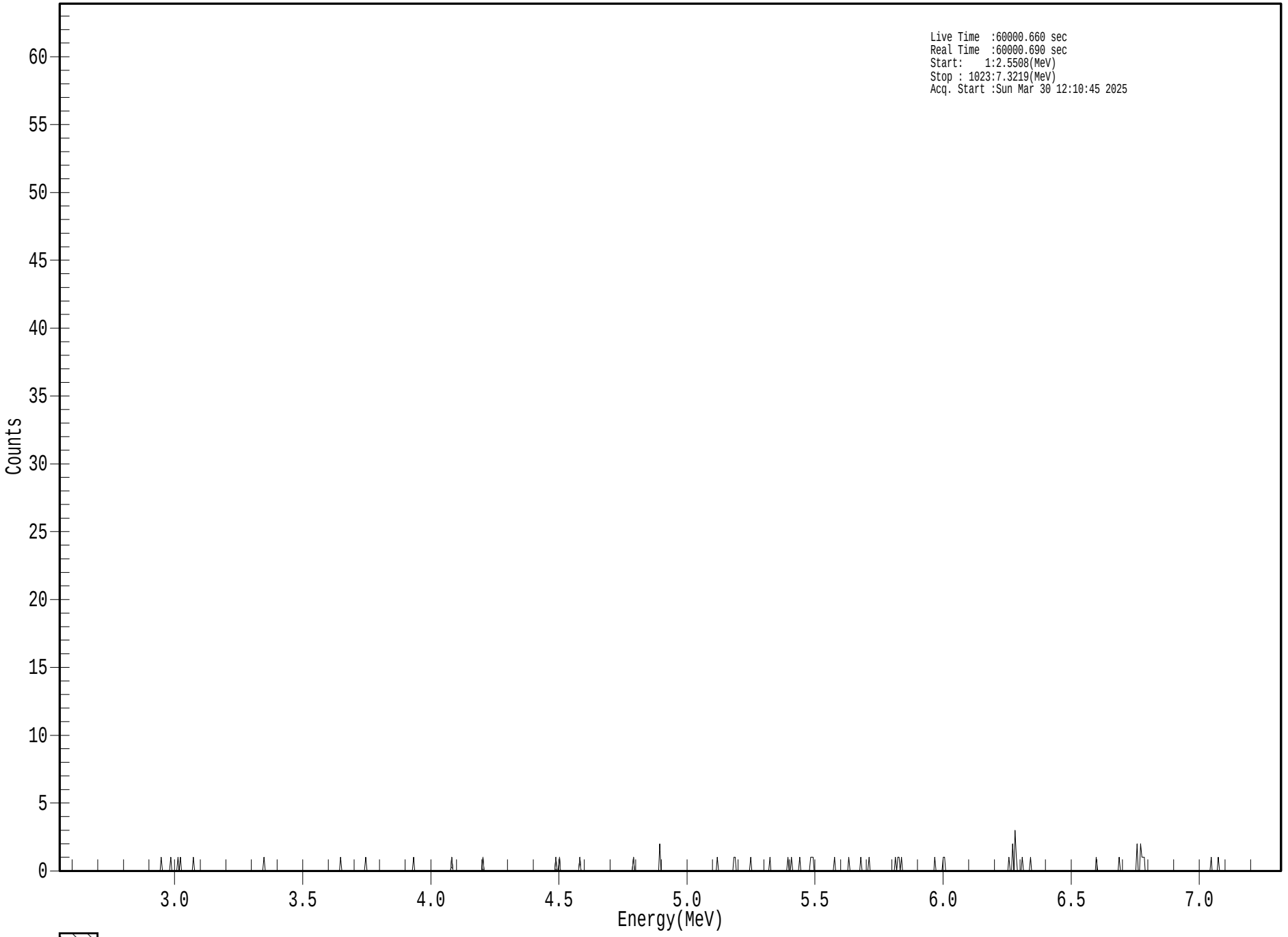
Detector Name: DET13
Sample Title: DET 13 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:50:27 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	322-	485	406.00	4441.53	4.67	6.00E+00	2.45	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

13.CNF


Live Time :60000.660 sec
Real Time :60000.690 sec
Start: 1:2.5508(MeV)
Stop : 1023:7.3219(MeV)
Acq. Start :Sun Mar 30 12:10:45 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\14.CNF

Report Generated On             : 4/2/2025   12:52:31 PM

Sample Title                    : DET 14 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:10:46 PM

Live Time                       :    60000.4 seconds
Real Time                       :    60000.5 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

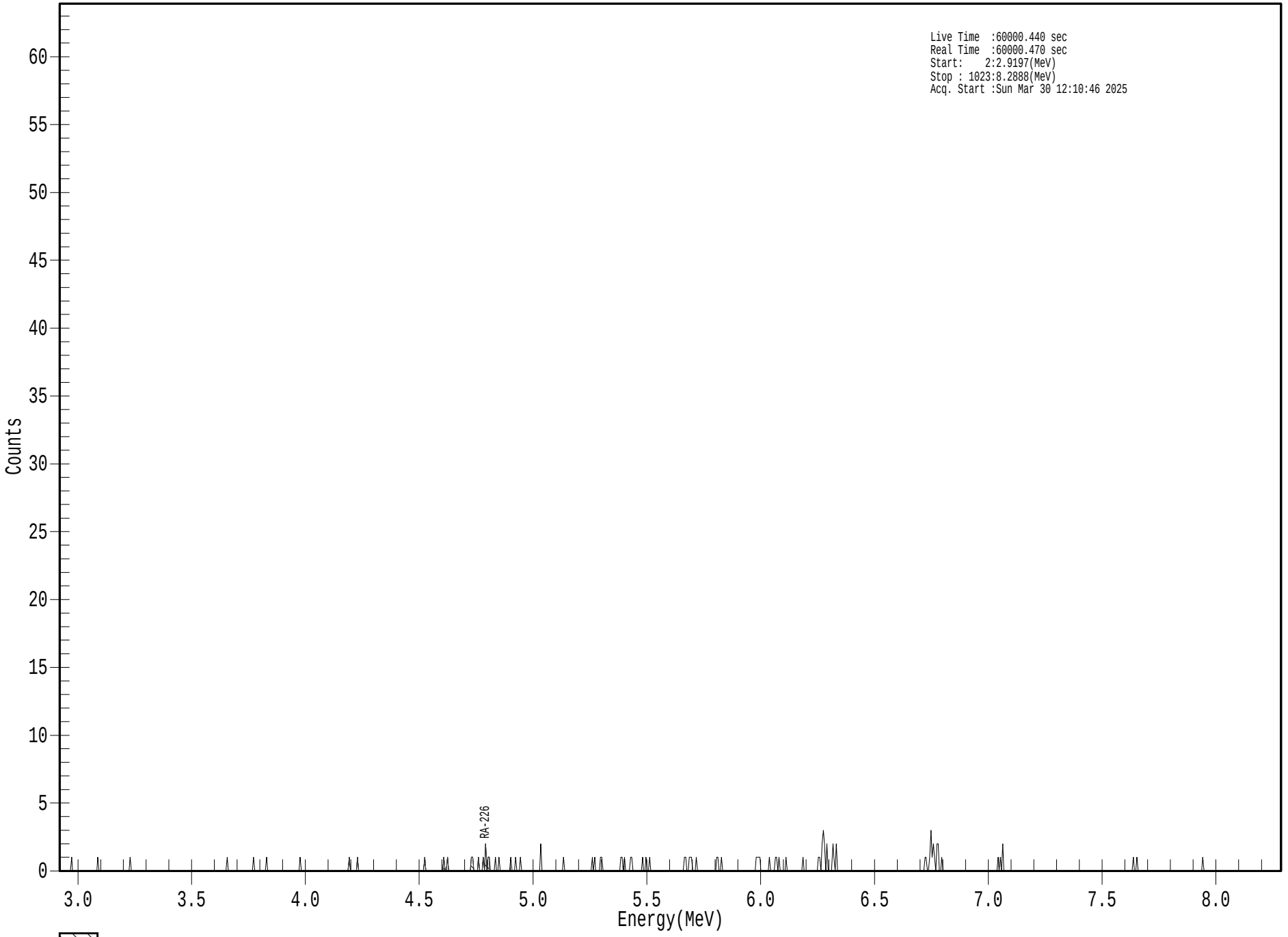
Detector Name: DET14
Sample Title: DET 14 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:52:31 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	217-	361	329.92	4644.18	5.26	1.30E+01	3.61	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

14.CNF


Live Time :60000.440 sec
Real Time :60000.470 sec
Start: 2:2.9197(MeV)
Stop : 1023:8.2888(MeV)
Acq. Start :Sun Mar 30 12:10:46 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\19.CNF

Report Generated On : 4/2/2025 12:54:22 PM

Sample Title : DET 19 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:53 PM

Live Time : 60000.4 seconds
Real Time : 60000.5 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

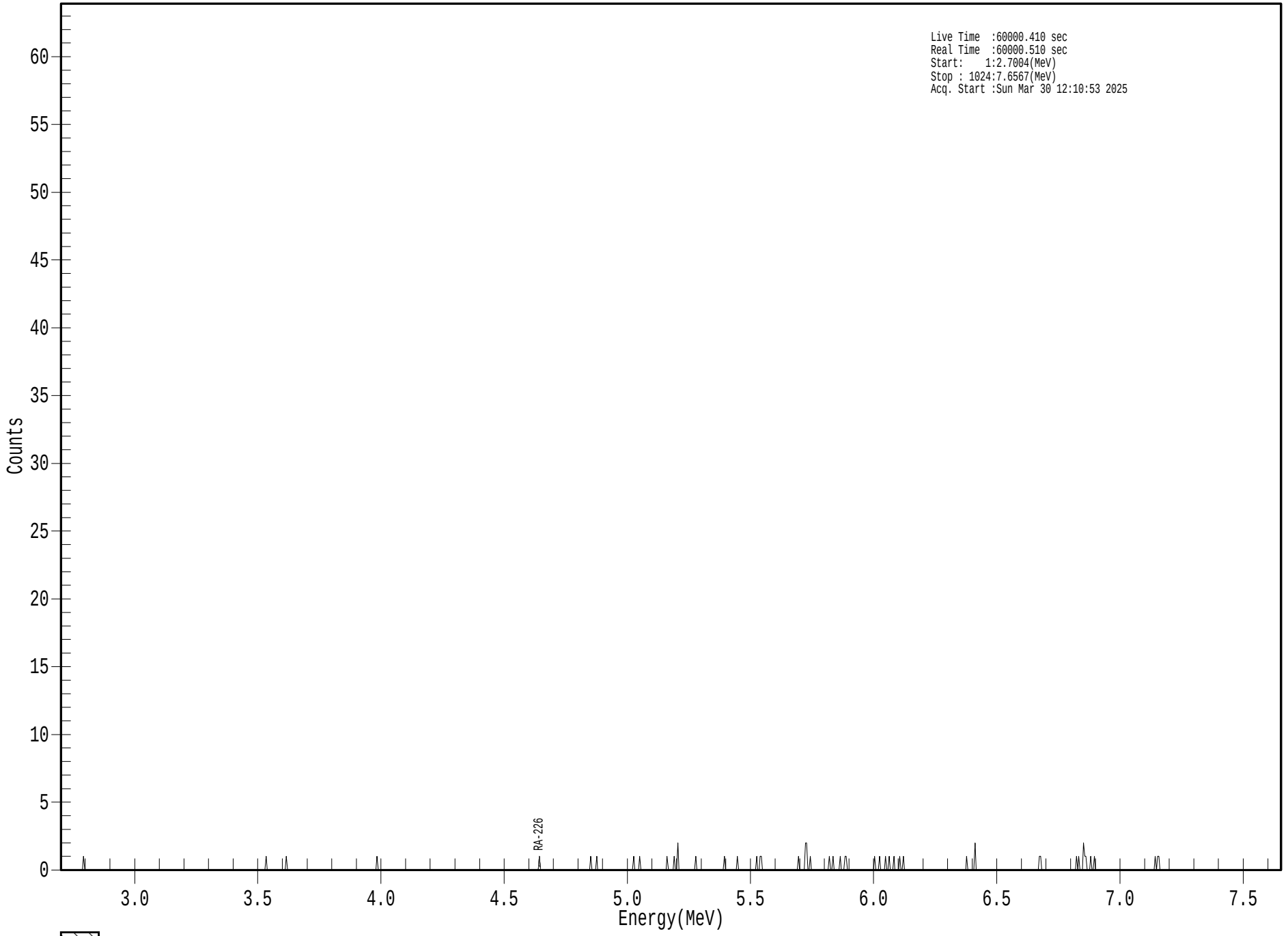
Detector Name: DET19
Sample Title: DET 19 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:54:22 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	280-	436	402.00	4643.22	4.84	1.00E+00	1.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

19.CNF


Live Time :60000.410 sec
Real Time :60000.510 sec
Start: 1:2.7004(MeV)
Stop : 1024:7.6567(MeV)
Acq. Start :Sun Mar 30 12:10:53 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\20.CNF

Report Generated On : 4/2/2025 12:56:47 PM

Sample Title : DET 20 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:55 PM

Live Time : 60000.2 seconds
Real Time : 60000.3 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

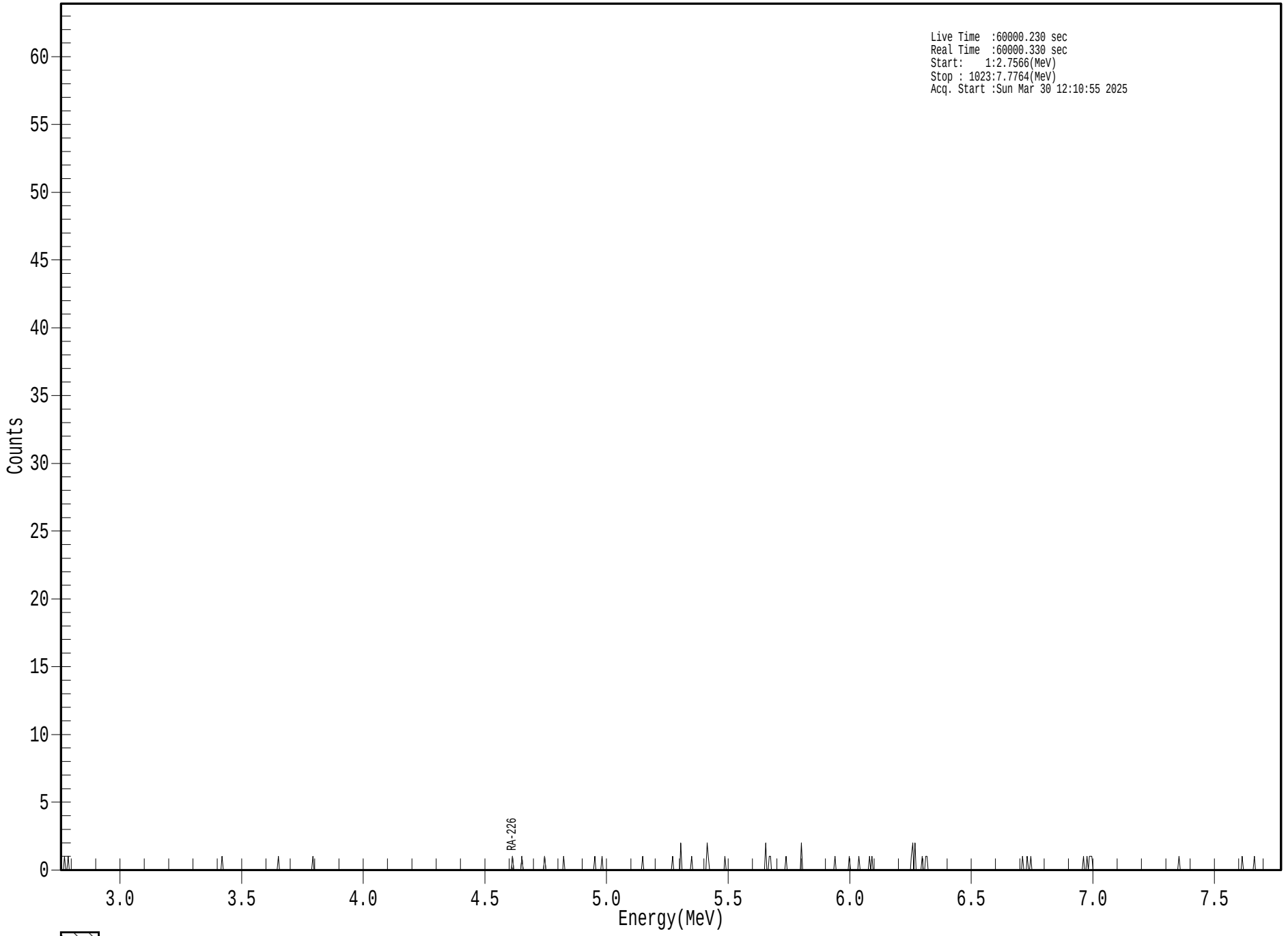
Detector Name: DET20
Sample Title: DET 20 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:56:47 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	265-	419	390.67	4670.57	4.91	3.00E+00	1.73	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

20.CNF


Live Time :60000.230 sec
Real Time :60000.330 sec
Start: 1:2.7566(MeV)
Stop : 1023:7.7764(MeV)
Acq. Start :Sun Mar 30 12:10:55 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
RA-226
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\21.CNF

Report Generated On : 4/2/2025 12:59:03 PM

Sample Title : DET 21 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:57 PM

Live Time : 60000.2 seconds
Real Time : 60000.3 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

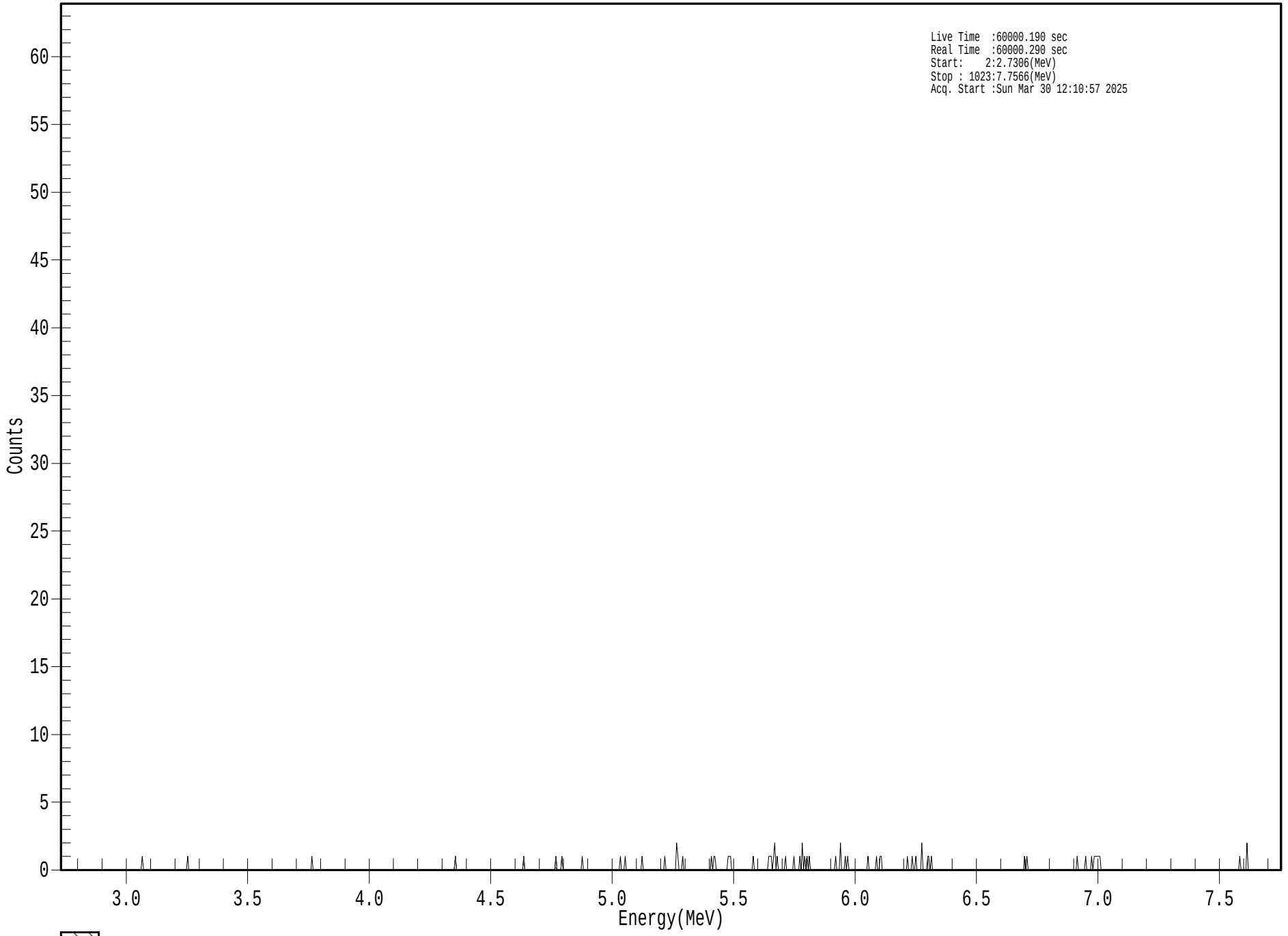
Detector Name: DET21
Sample Title: DET 21 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:59:03 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	270-	424	389.50	4638.12	4.92	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

21.CNF


Live Time :60000.190 sec
Real Time :60000.290 sec
Start: 2:2.7306(MeV)
Stop : 1023:7.7566(MeV)
Acq. Start :Sun Mar 30 12:10:57 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
Energy(MeV)
ROI Type: 1

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\23.CNF

Report Generated On             : 4/2/2025    1:01:23 PM

Sample Title                    : DET 23 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:10:59 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.1 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

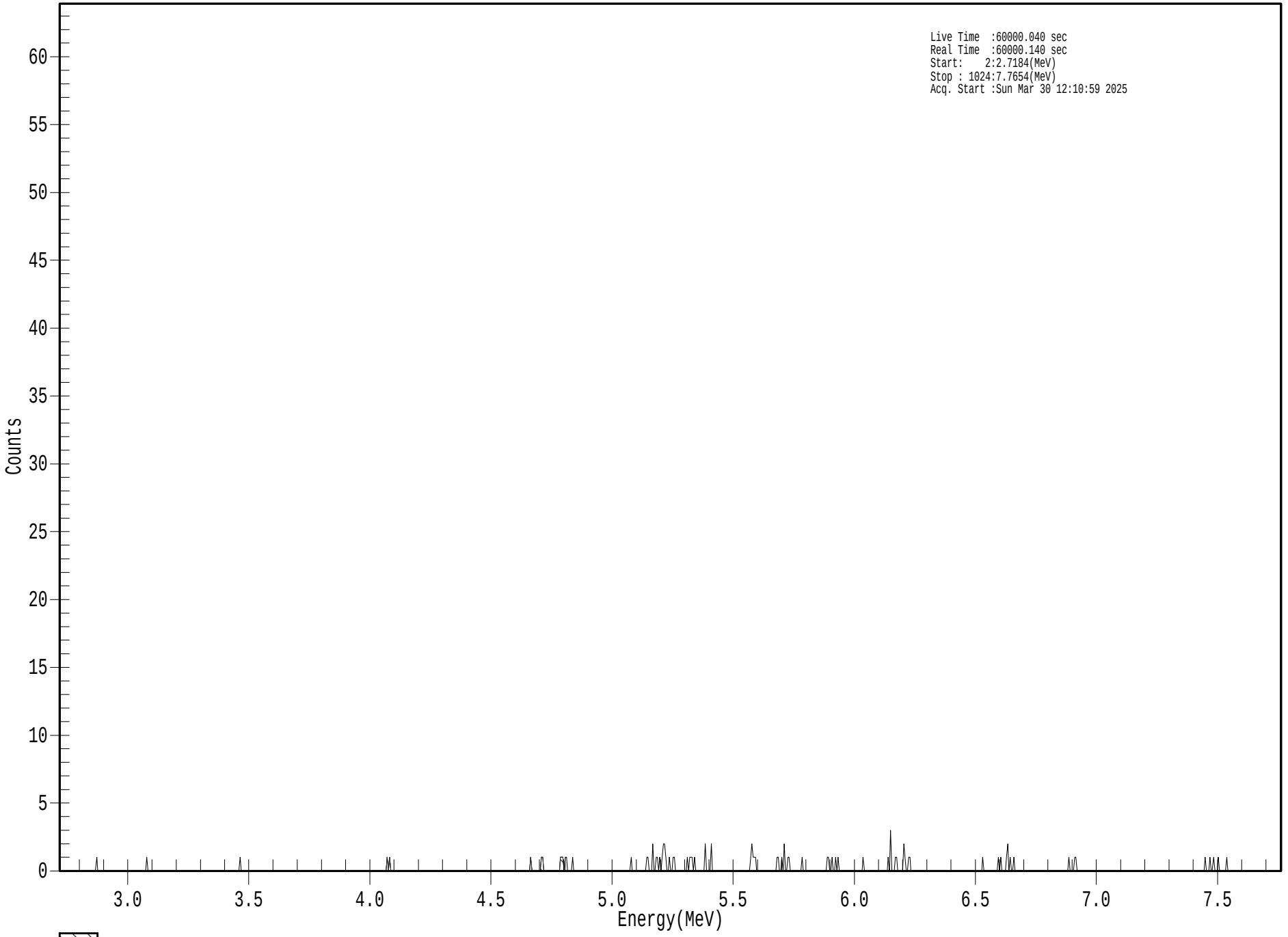
Detector Name: DET23
Sample Title: DET 23 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:01:23 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	272-	425	383.56	4602.67	4.94	9.00E+00	3.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

23.CNF


Live Time :60000.040 sec
Real Time :60000.140 sec
Start: 2:2.7184(MeV)
Stop : 1024:7.7654(MeV)
Acq. Start :Sun Mar 30 12:10:59 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\24.CNF

Report Generated On : 4/2/2025 1:03:51 PM

Sample Title : DET 24 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:01 PM

Live Time : 60000.1 seconds
Real Time : 60000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

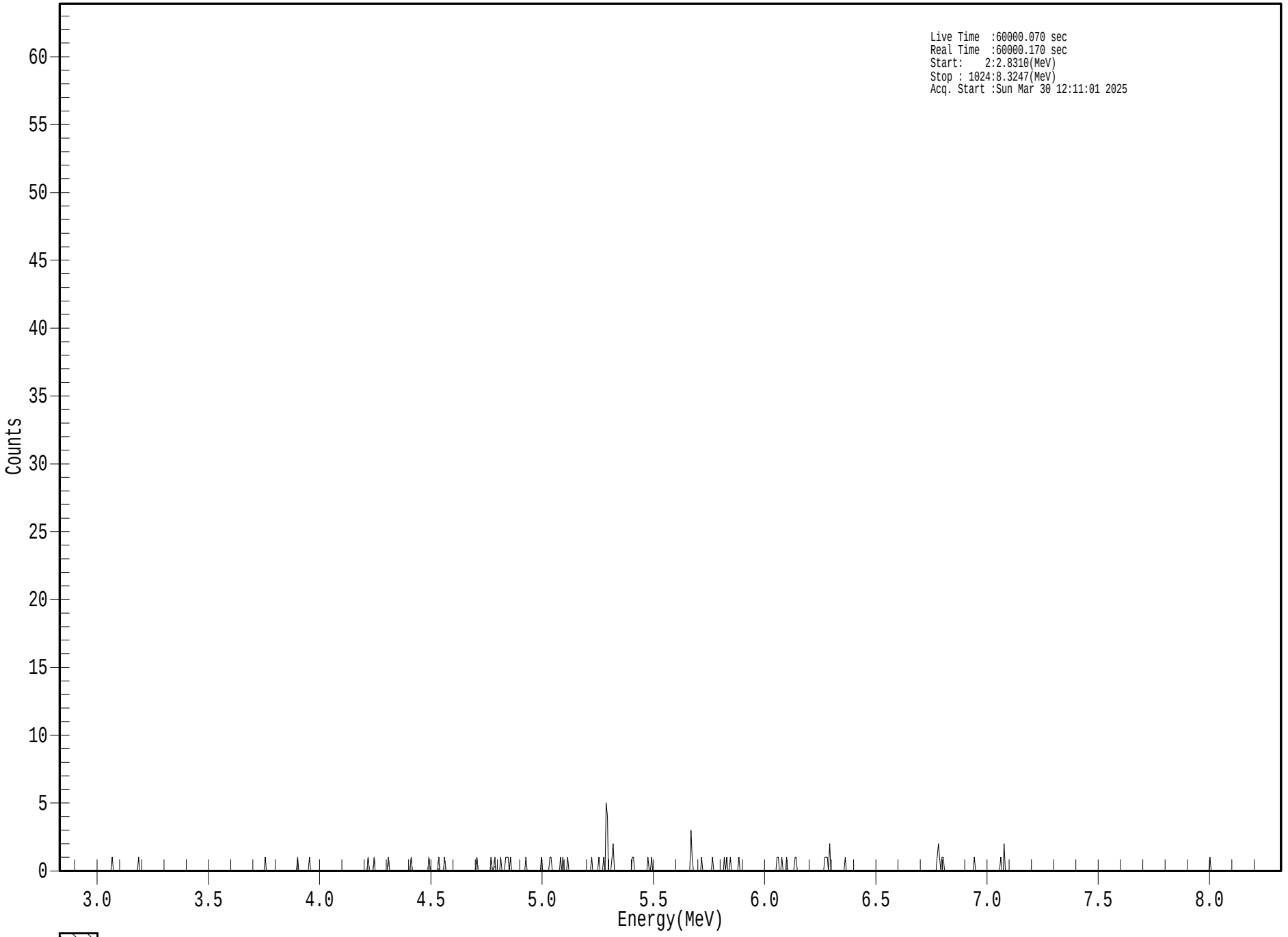
Detector Name: DET24
Sample Title: DET 24 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:03:51 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	229-	370	313.20	4503.86	5.38	1.00E+01	3.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

24.CNF


Live Time :60000.070 sec
Real Time :60000.170 sec
Start: 2:2.8310(MeV)
Stop : 1024:8.3247(MeV)
Acq. Start :Sun Mar 30 12:11:01 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\25.CNF

Report Generated On : 4/2/2025 1:06:16 PM

Sample Title : DET 25 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:10 PM

Live Time : 60000.1 seconds
Real Time : 60000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

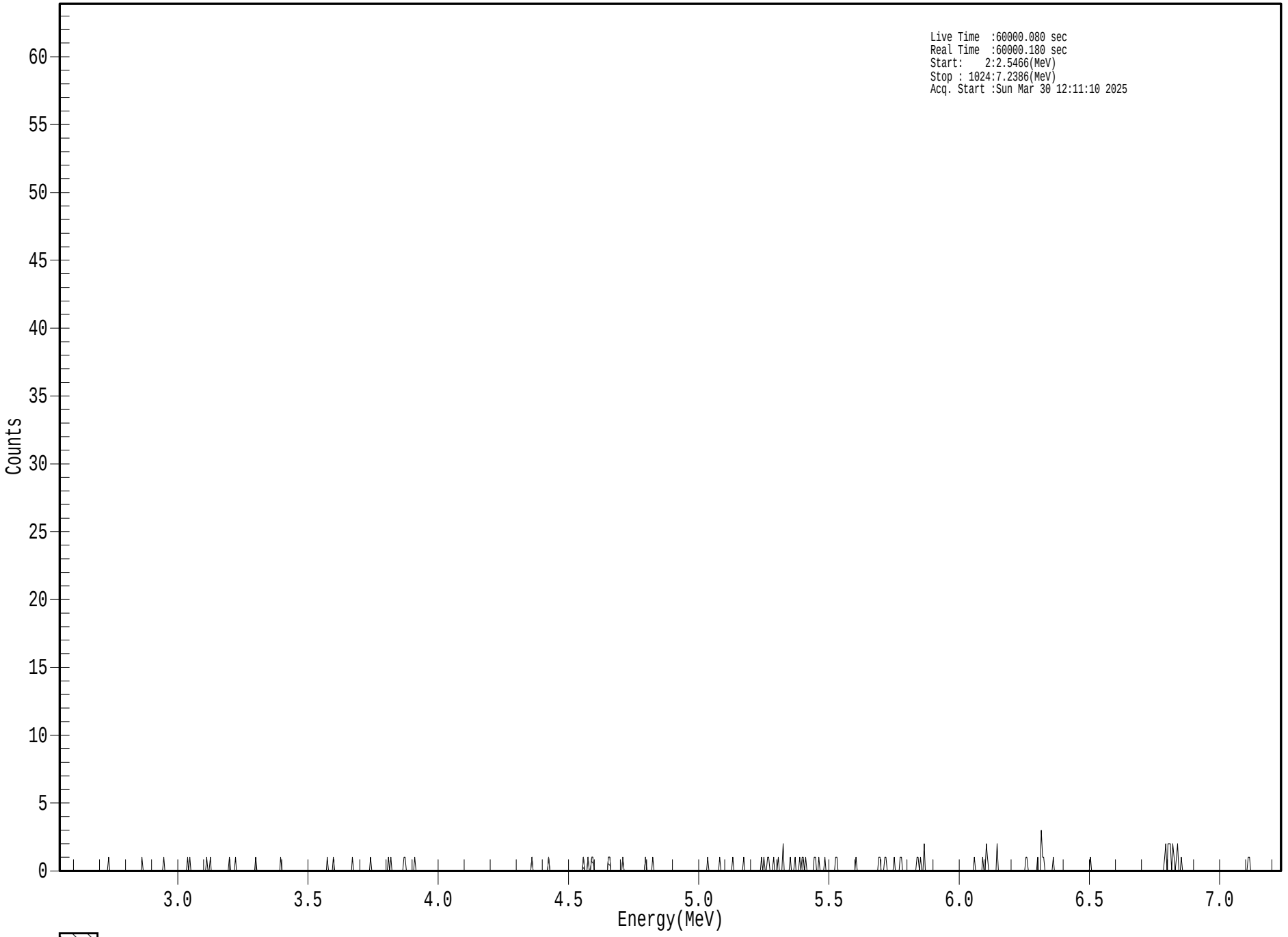
Detector Name: DET25
Sample Title: DET 25 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:06:16 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	330-	495	447.50	4591.91	4.59	1.00E+01	3.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

25.CNF


Live Time :60000.080 sec
Real Time :60000.180 sec
Start: 2:2.5466(MeV)
Stop : 1024:7.2386(MeV)
Acq. Start :Sun Mar 30 12:11:10 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\26.CNF

Report Generated On : 4/2/2025 1:08:38 PM

Sample Title : DET 26 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:12 PM

Live Time : 60000.2 seconds
Real Time : 60000.3 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

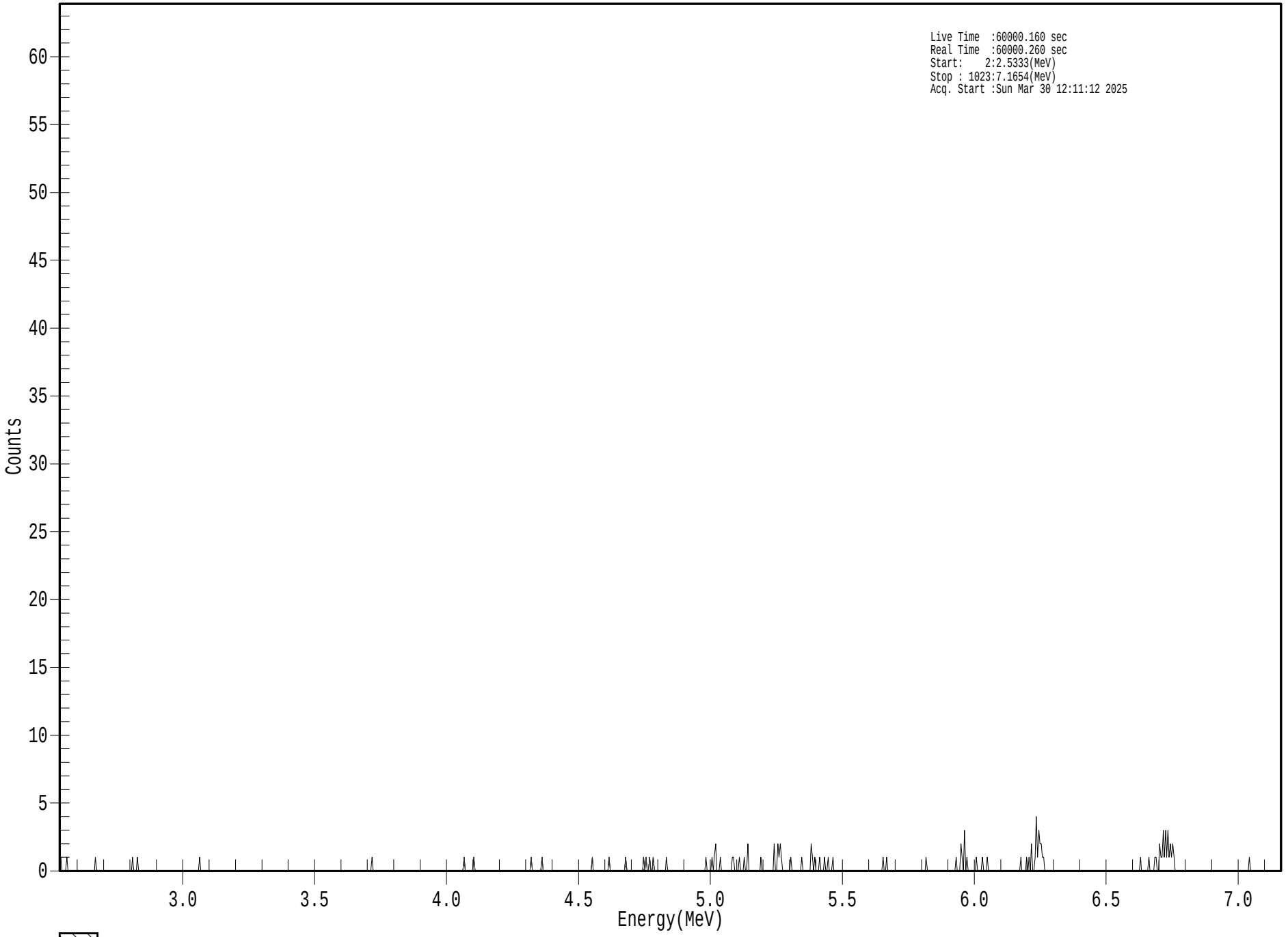
Detector Name: DET26
Sample Title: DET 26 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:08:38 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	337-	504	440.64	4523.33	4.54	1.10E+01	3.32	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

26.CNF


Live Time :60000.160 sec
Real Time :60000.260 sec
Start: 2:2.5333(MeV)
Stop : 1023:7.1654(MeV)
Acq. Start :Sun Mar 30 12:11:12 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\27..CNF

Report Generated On : 4/2/2025 1:10:37 PM

Sample Title : DET 27 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:14 PM

Live Time : 60000.0 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

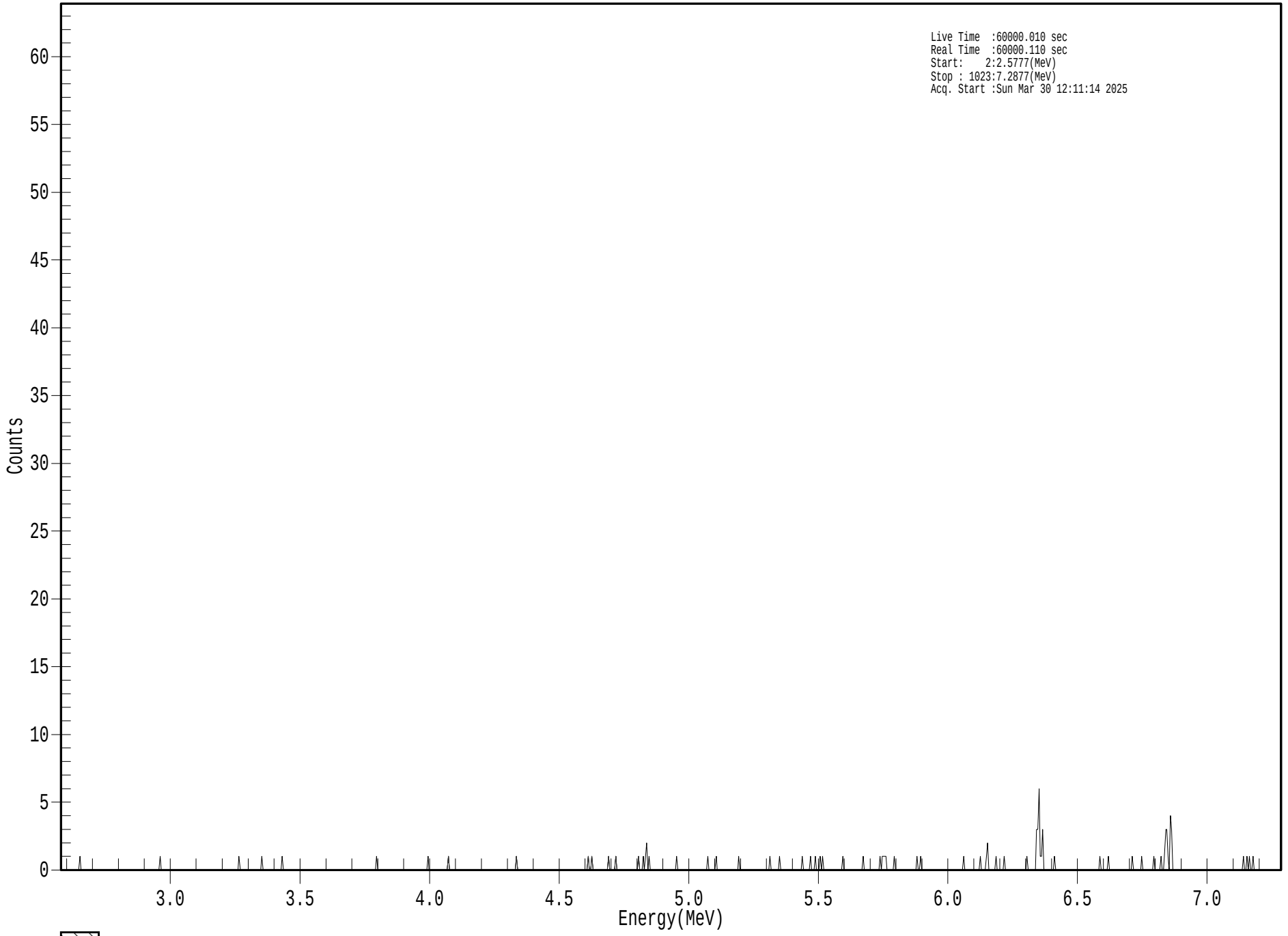
Detector Name: DET27
Sample Title: DET 27 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:10:37 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	321-	486	429.86	4551.46	4.61	7.00E+00	2.65	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

27..CNF


Live Time :60000.010 sec
Real Time :60000.110 sec
Start: 2:2.5777(MeV)
Stop : 1023:7.2877(MeV)
Acq. Start :Sun Mar 30 12:11:14 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\28.CNF

Report Generated On : 4/2/2025 1:13:17 PM

Sample Title : DET 28 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:15 PM

Live Time : 60000.1 seconds
Real Time : 60000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

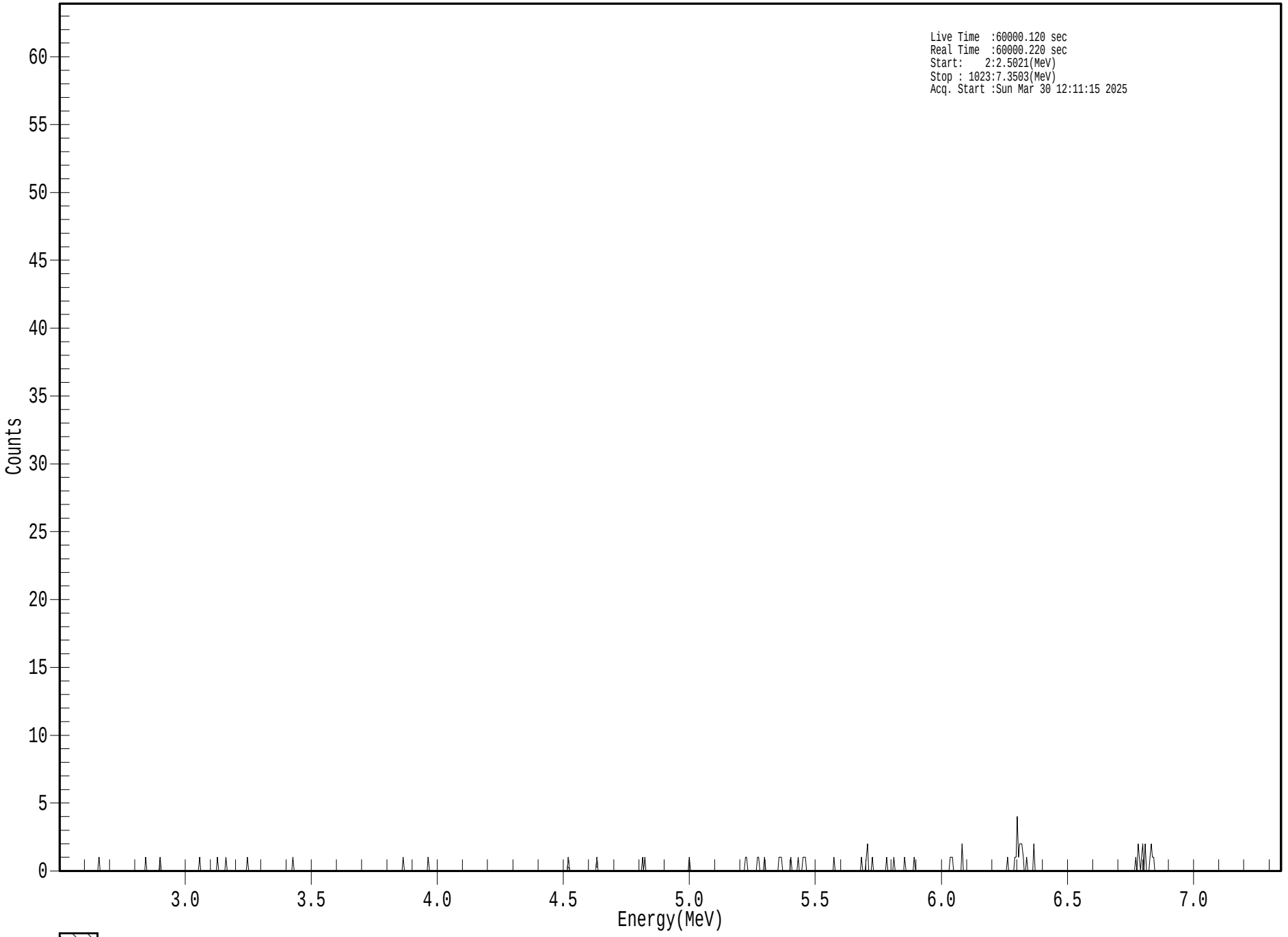
Detector Name: DET28
Sample Title: DET 28 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:13:17 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	328-	488	439.00	4577.18	4.75	2.00E+00	1.41	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

28.CNF


Live Time :60000.120 sec
Real Time :60000.220 sec
Start: 2:2.5021(MeV)
Stop : 1023:7.3503(MeV)
Acq. Start :Sun Mar 30 12:11:15 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\29.CNF

Report Generated On : 4/2/2025 1:14:48 PM

Sample Title : DET 29 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:17 PM

Live Time : 60000.1 seconds
Real Time : 60000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

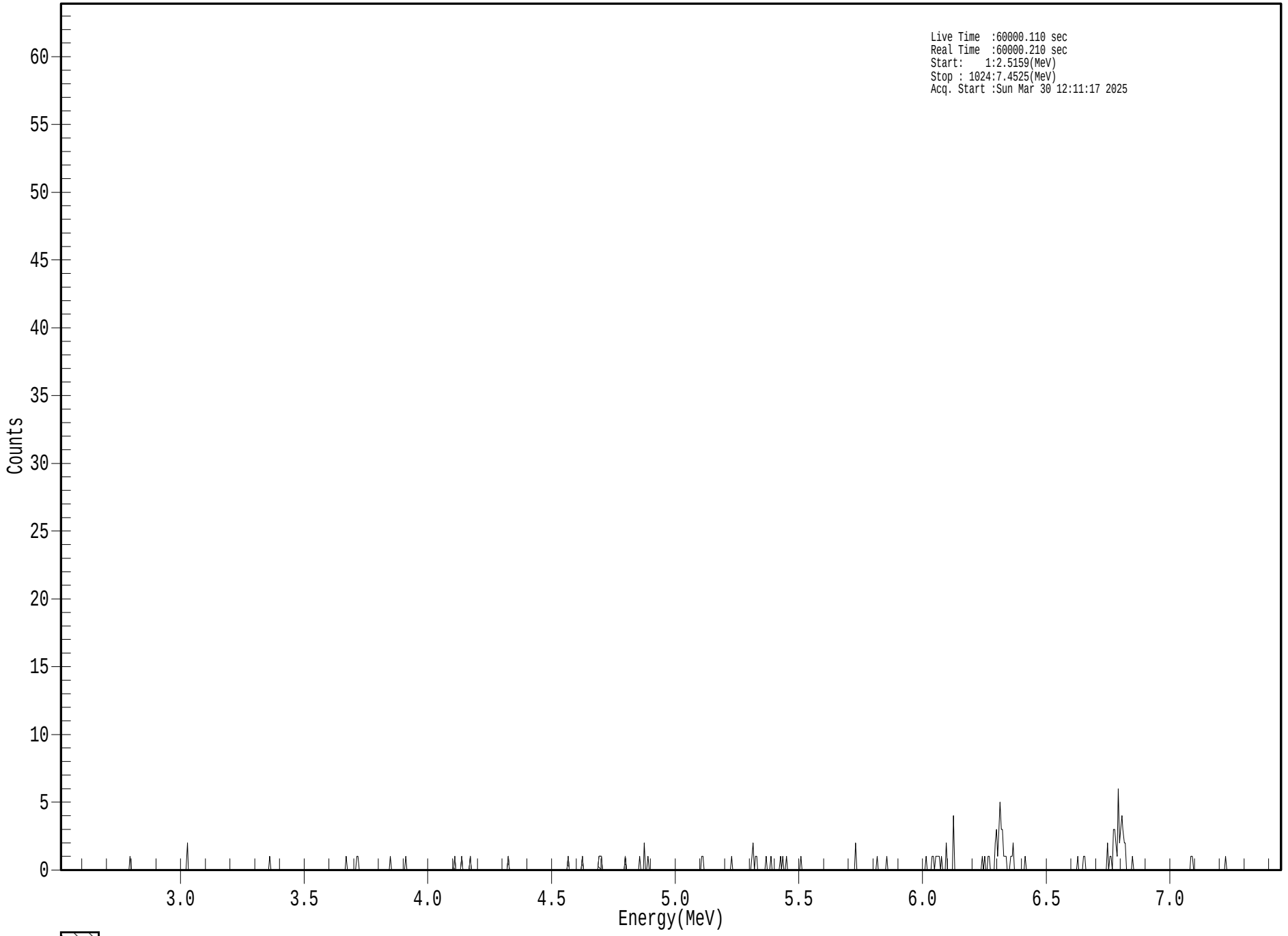
Detector Name: DET29
Sample Title: DET 29 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:14:48 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	319-	476	408.50	4482.36	4.83	1.00E+01	3.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

29.CNF


Live Time :60000.110 sec
Real Time :60000.210 sec
Start: 1:2.5159(MeV)
Stop : 1024:7.4525(MeV)
Acq. Start :Sun Mar 30 12:11:17 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\30.CNF

Report Generated On : 4/2/2025 1:16:52 PM

Sample Title : DET 30 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:18 PM

Live Time : 60000.1 seconds
Real Time : 60000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

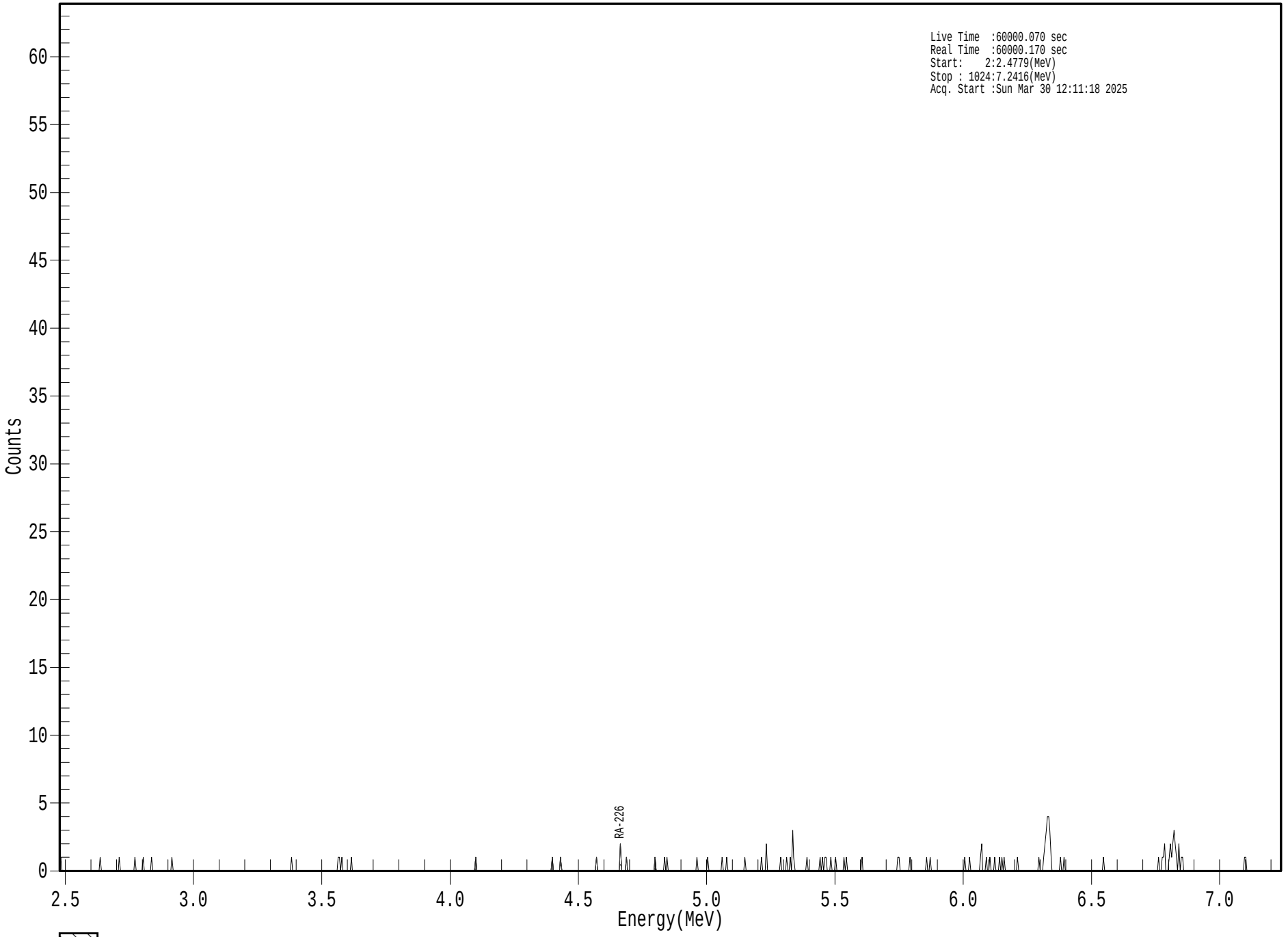
Detector Name: DET30
Sample Title: DET 30 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:16:52 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	340-	502	444.25	4539.30	4.66	8.00E+00	2.83	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

30.CNF


Live Time :60000.070 sec
Real Time :60000.170 sec
Start: 2:2.4779(MeV)
Stop : 1024:7.2416(MeV)
Acq. Start :Sun Mar 30 12:11:18 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\32.CNF

Report Generated On : 4/2/2025 1:18:51 PM

Sample Title : DET 32 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:20 PM

Live Time : 60000.1 seconds
Real Time : 60000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

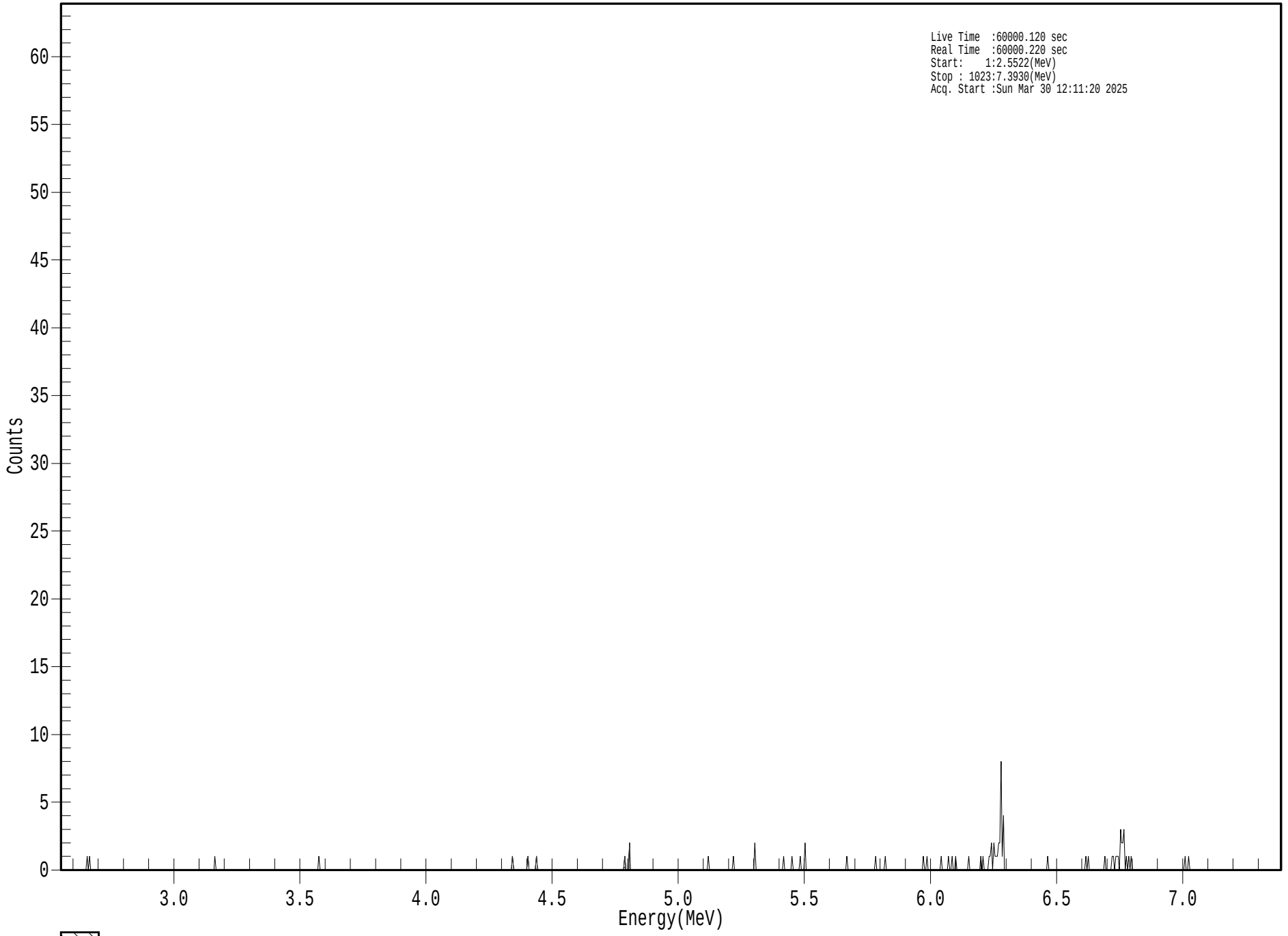
Detector Name: DET32
Sample Title: DET 32 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:18:51 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	318-	477	432.83	4597.64	4.74	6.00E+00	2.45	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

32.CNF


Live Time :60000.120 sec
Real Time :60000.220 sec
Start: 1:2.5522(MeV)
Stop : 1023:7.3930(MeV)
Acq. Start :Sun Mar 30 12:11:20 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\33.CNF

Report Generated On : 4/2/2025 1:20:47 PM

Sample Title : DET 33 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:08:51 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

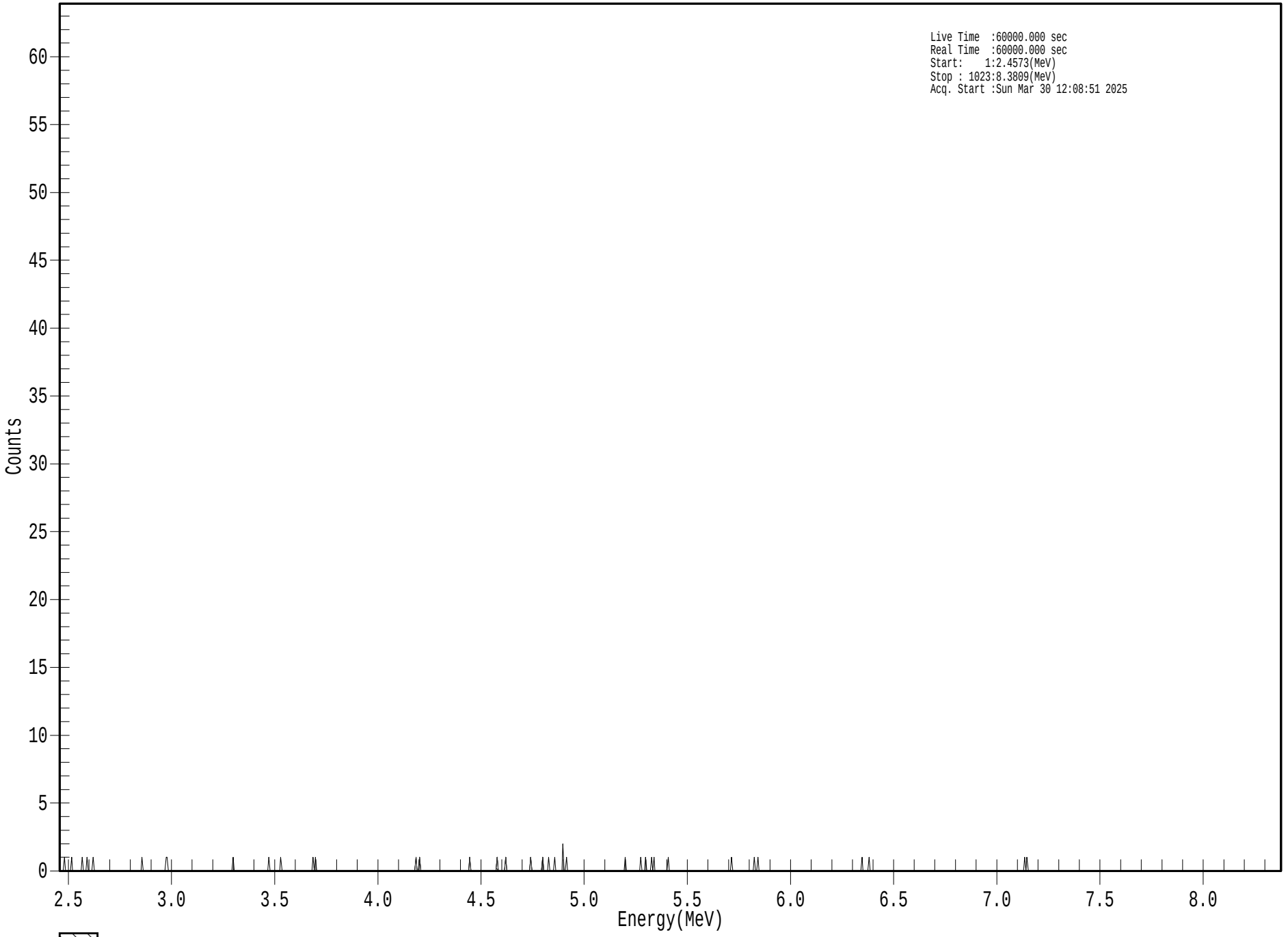
Detector Name: A_4_1A
Sample Title: DET 33 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:20:47 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	276-	407	355.14	4509.97	5.80	7.00E+00	2.65	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

33.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4573(MeV)
Stop : 1023:8.3809(MeV)
Acq. Start :Sun Mar 30 12:08:51 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\34.CNF

Report Generated On : 4/2/2025 1:29:27 PM

Sample Title : DET 34 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:08:52 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

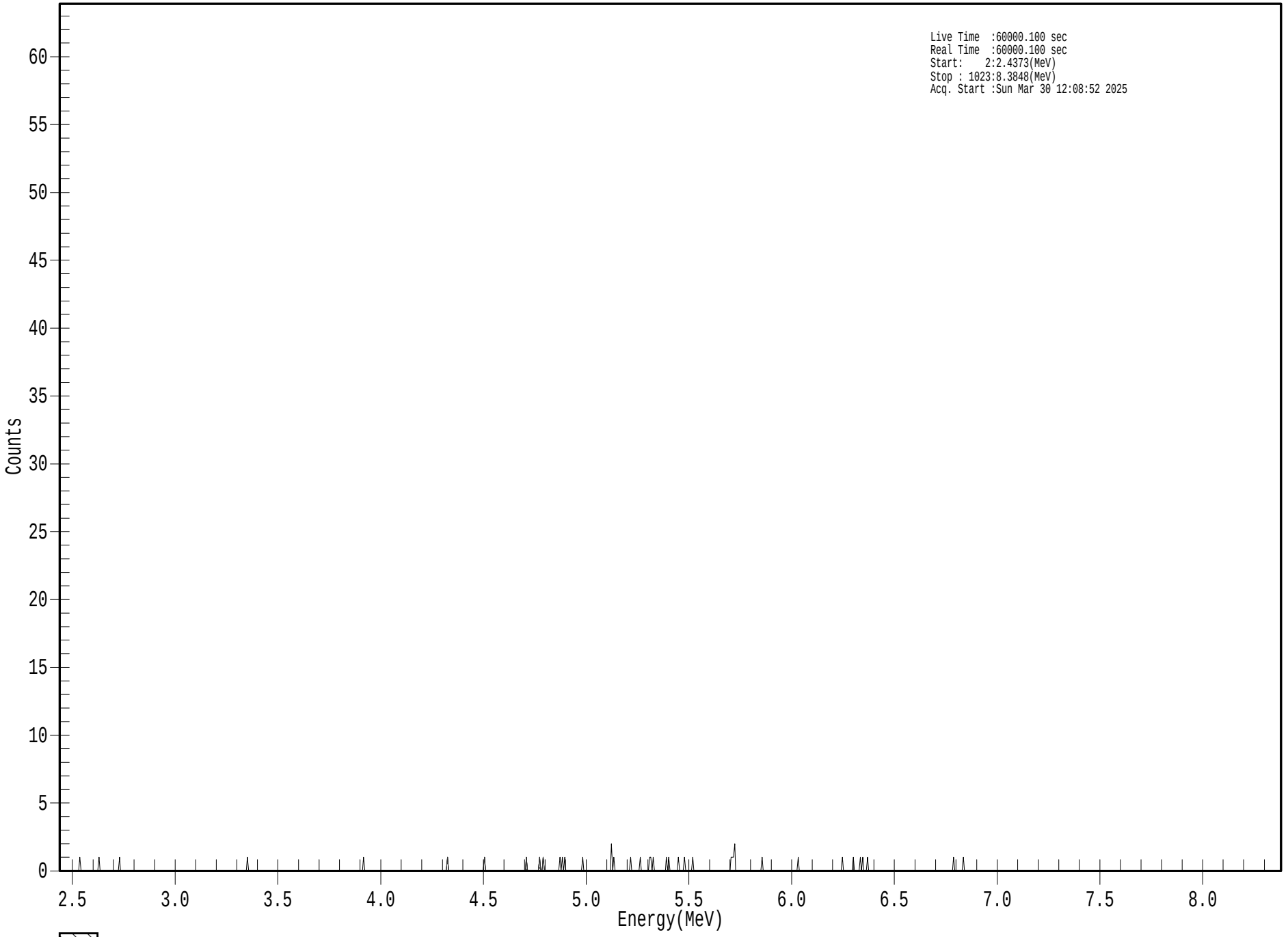
Detector Name: A_4_1B
Sample Title: DET 34 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:29:27 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	279-	409	376.80	4620.56	5.83	5.00E+00	2.24	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

34.CNF


Live Time :60000.100 sec
Real Time :60000.100 sec
Start: 2:2.4373(MeV)
Stop : 1023:8.3848(MeV)
Acq. Start :Sun Mar 30 12:08:52 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\35.CNF

Report Generated On : 4/2/2025 1:31:33 PM

Sample Title : DET 35 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:08:54 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

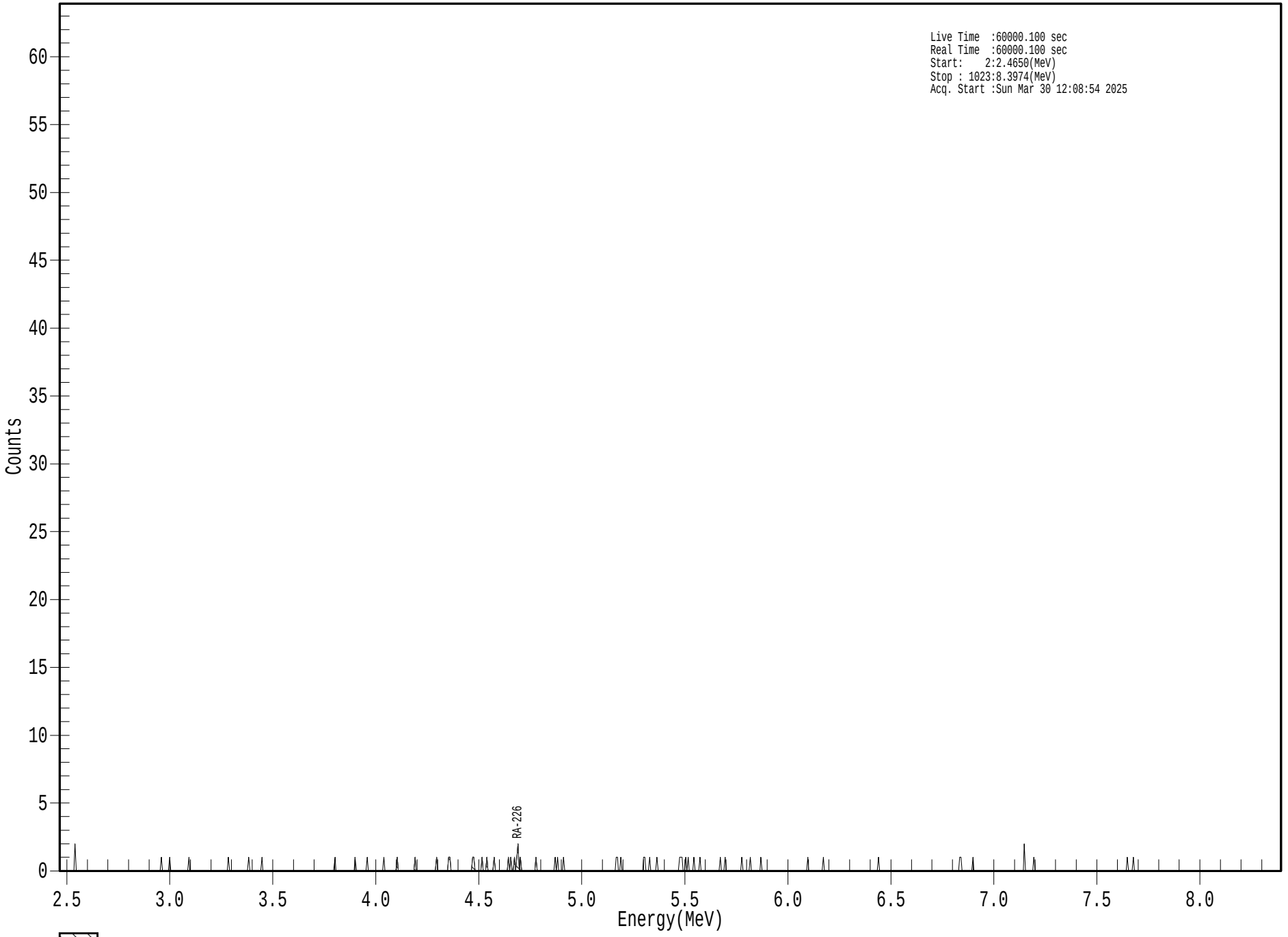
Detector Name: A_4_2A
Sample Title: DET 35 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:31:33 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	275-	405	356.00	4521.86	8.72	1.80E+01	4.24	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

35.CNF


Live Time :60000.100 sec
Real Time :60000.100 sec
Start: 2:2.4650(MeV)
Stop : 1023:8.3974(MeV)
Acq. Start :Sun Mar 30 12:08:54 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\36.CNF

Report Generated On : 4/2/2025 1:33:48 PM

Sample Title : DET 36 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:08:56 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

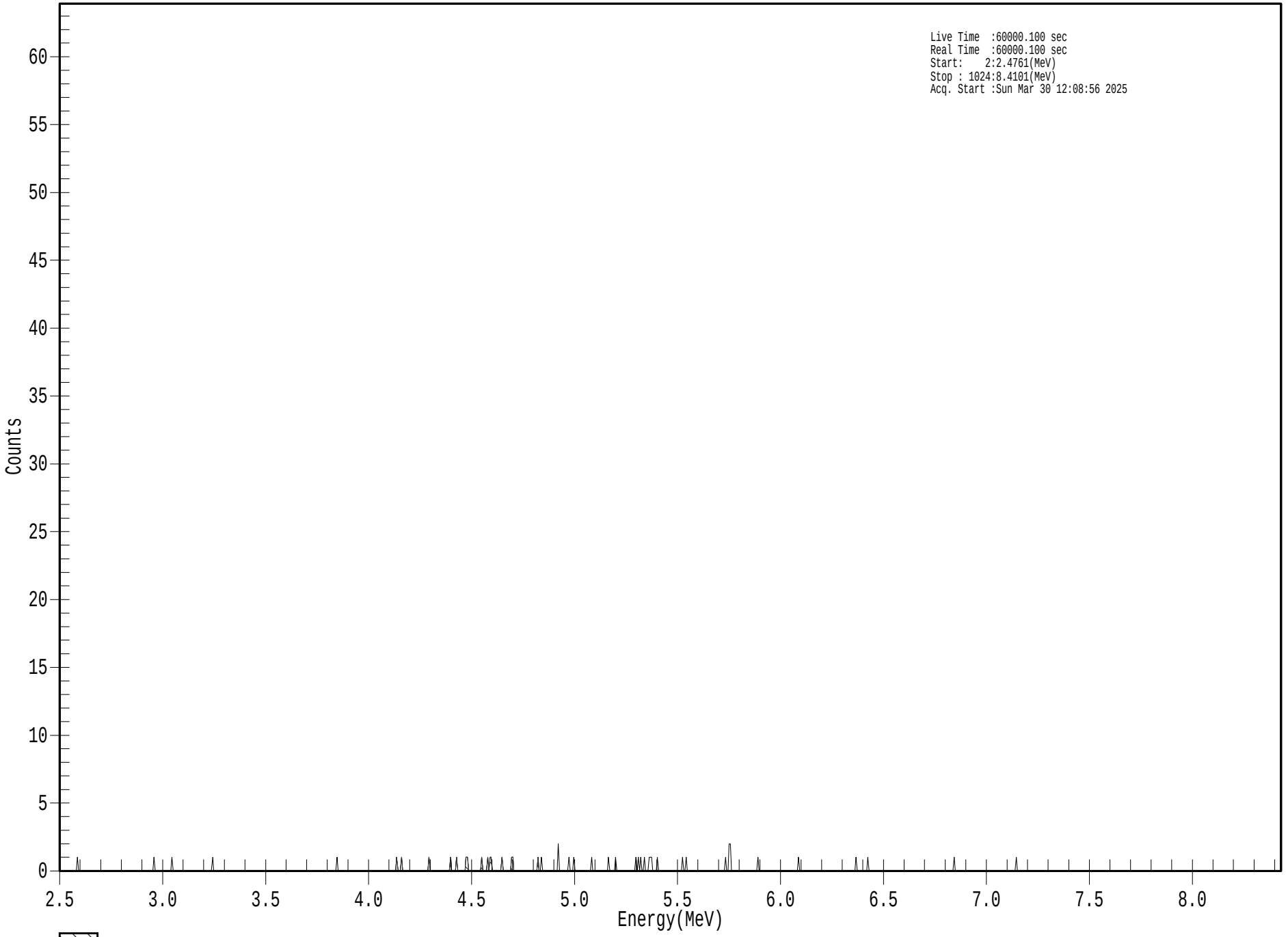
Detector Name: A_4_2B
Sample Title: DET 36 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:33:48 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	273-	404	347.07	4479.62	5.81	1.50E+01	3.87	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

36.CNF


Live Time :60000.100 sec
Real Time :60000.100 sec
Start: 2:2.4761(MeV)
Stop : 1024:8.4101(MeV)
Acq. Start :Sun Mar 30 12:08:56 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\37.CNF

Report Generated On : 4/2/2025 1:35:50 PM

Sample Title : DET 37 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:08:58 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

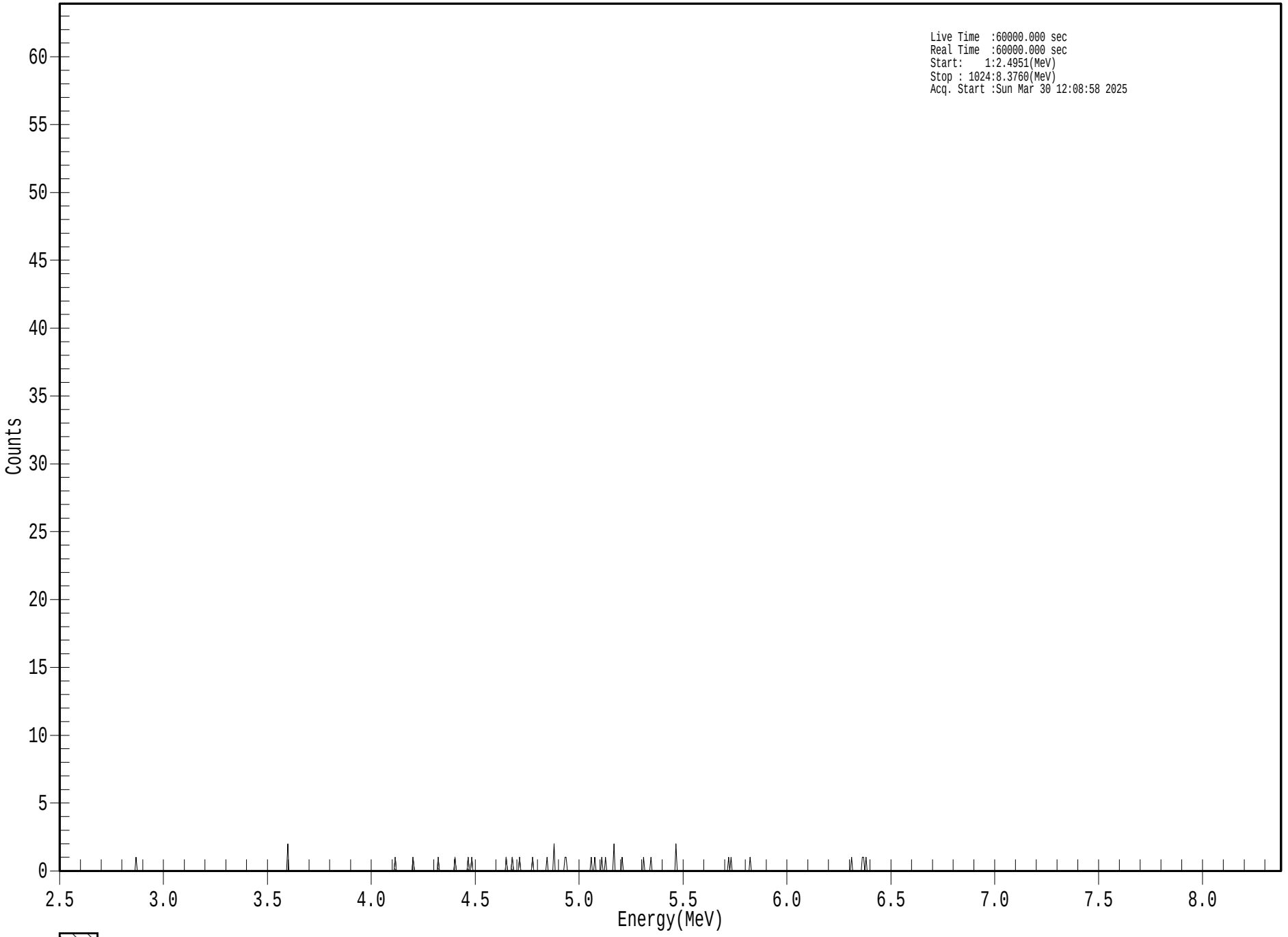
Detector Name: A_4_3A
Sample Title: DET 37 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:35:50 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	272-	403	345.60	4476.10	5.75	1.00E+01	3.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

37.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4951(MeV)
Stop : 1024:8.3760(MeV)
Acq. Start :Sun Mar 30 12:08:58 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\38.CNF

Report Generated On : 4/2/2025 1:37:55 PM

Sample Title : DET 38 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:01 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

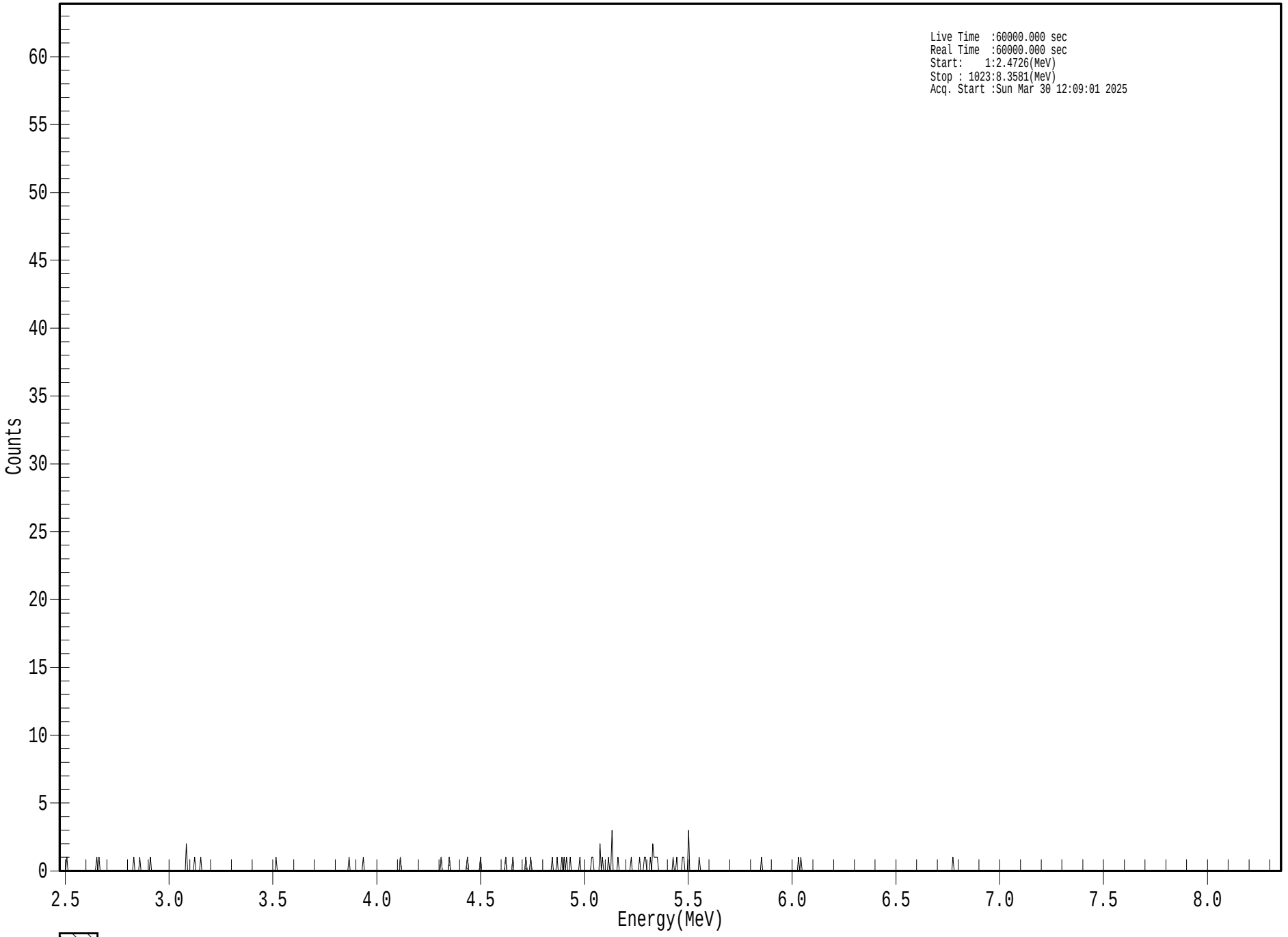
Detector Name: A_4_3B
Sample Title: DET 38 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:37:55 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	275-	407	352.00	4493.94	5.76	9.00E+00	3.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

38.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4726(MeV)
Stop : 1023:8.3581(MeV)
Acq. Start :Sun Mar 30 12:09:01 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\39.CNF

Report Generated On : 4/2/2025 1:40:03 PM

Sample Title : DET 39 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:02 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

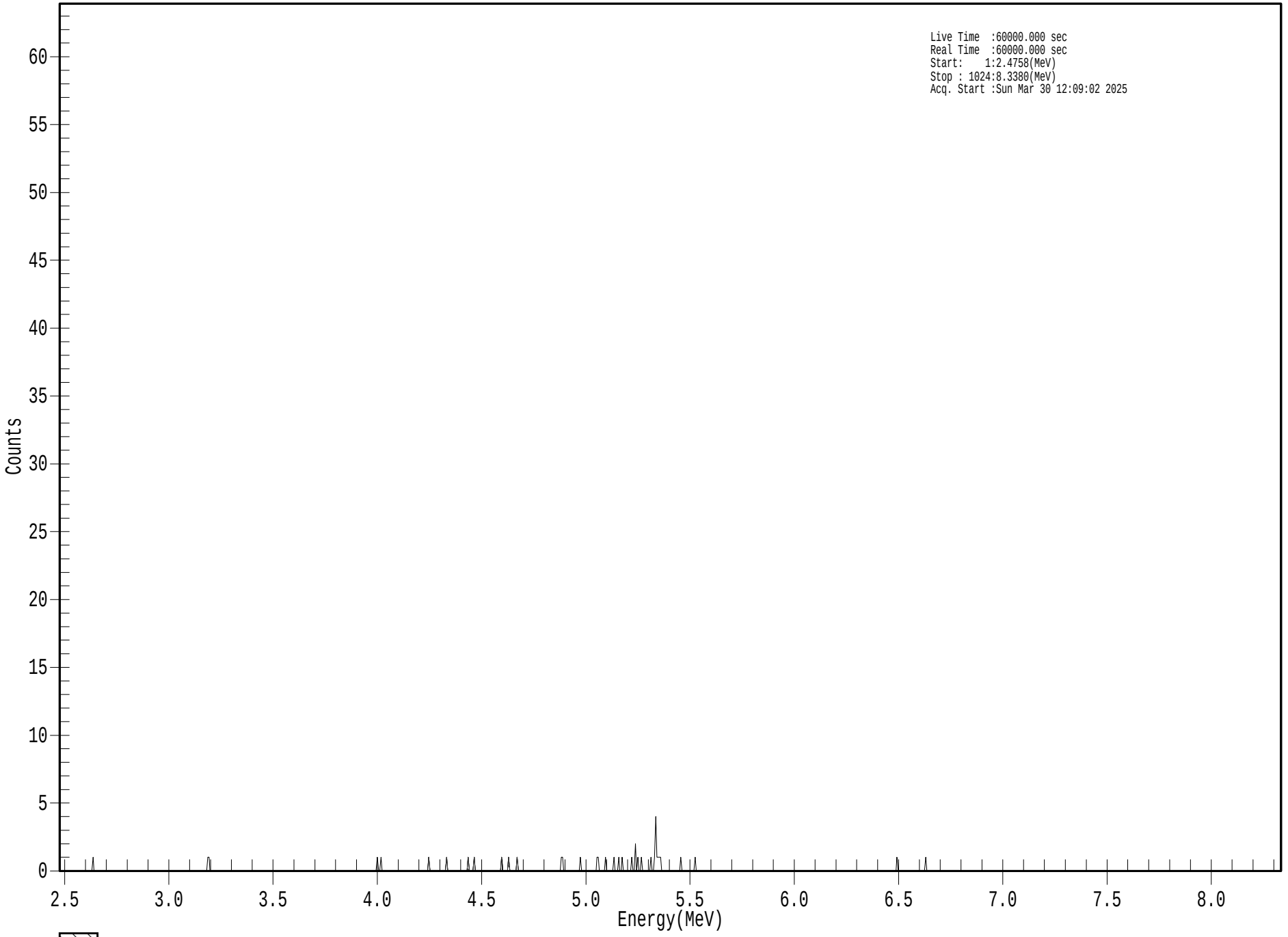
Detector Name: A_4_4A
Sample Title: DET 39 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:40:03 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	276-	408	351.14	4482.27	5.73	7.00E+00	2.65	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

39.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4758(MeV)
Stop : 1024:8.3380(MeV)
Acq. Start :Sun Mar 30 12:09:02 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\40.CNF

Report Generated On             : 4/2/2025    1:41:55 PM

Sample Title                    : DET 40 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:09:04 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.0 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

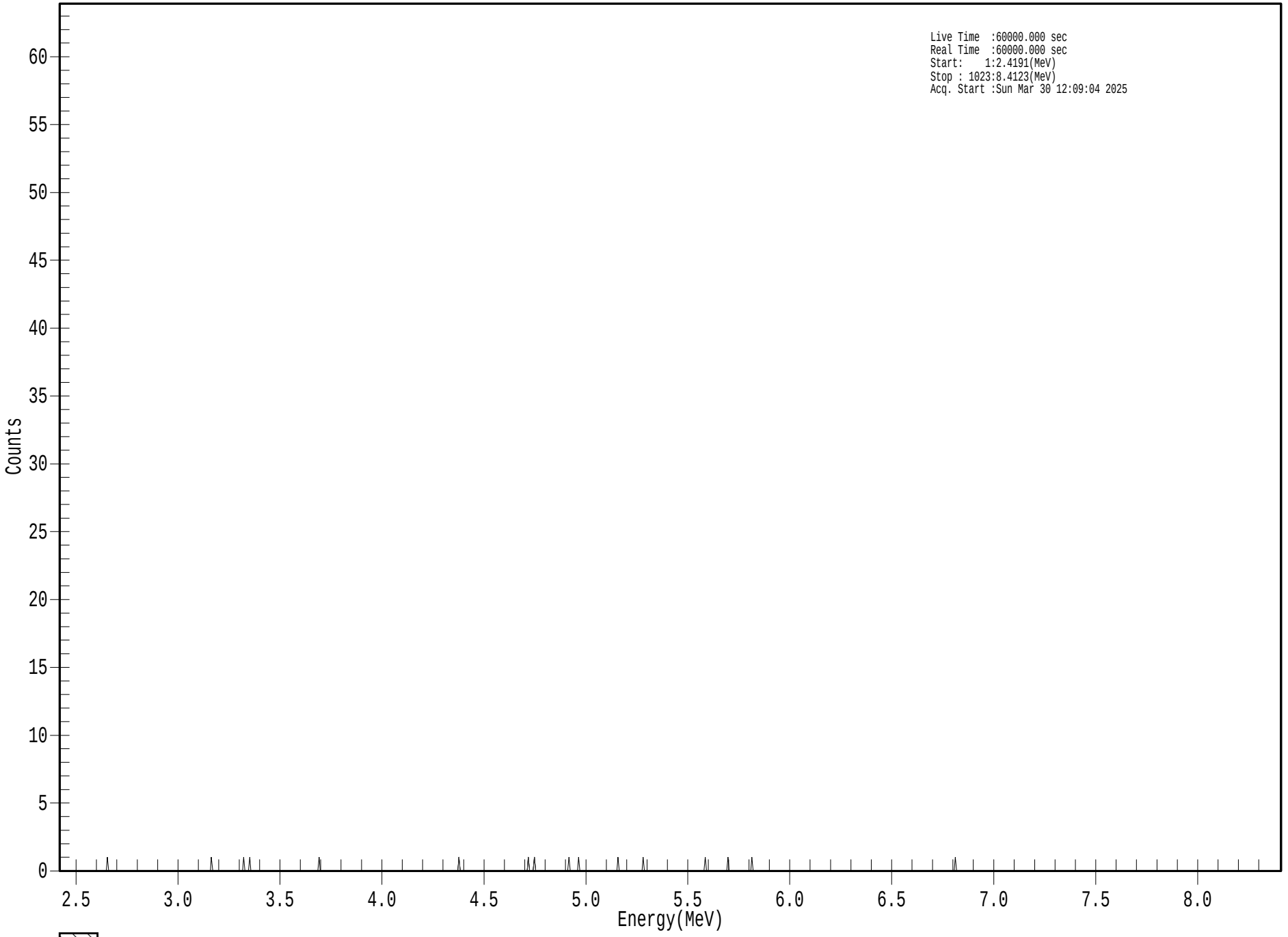
Detector Name: A_4_4B
Sample Title: DET 40 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:41:55 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	279-	408	375.33	4614.28	5.86	3.00E+00	1.73	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

40.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4191(MeV)
Stop : 1023:8.4123(MeV)
Acq. Start :Sun Mar 30 12:09:04 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\41.CNF

Report Generated On : 4/2/2025 1:51:02 PM

Sample Title : DET 41 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:06 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

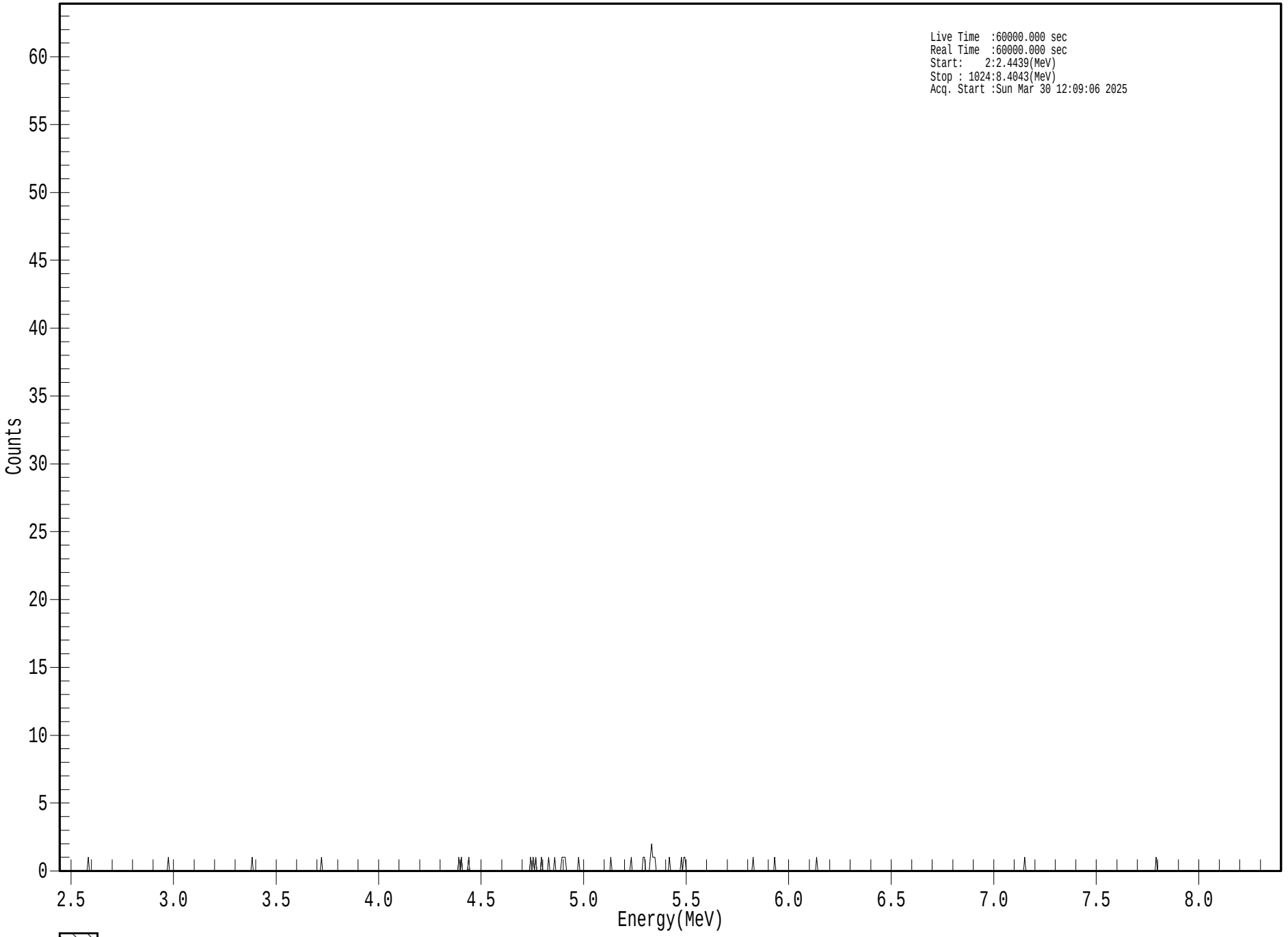
Detector Name: A_4_5A
Sample Title: DET 41 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:51:02 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	278-	407	373.86	4612.61	5.83	7.00E+00	2.65	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

41.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4439(MeV)
Stop : 1024:8.4043(MeV)
Acq. Start :Sun Mar 30 12:09:06 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\42.CNF

Report Generated On : 4/2/2025 2:26:06 PM

Sample Title : DET 42 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:08 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

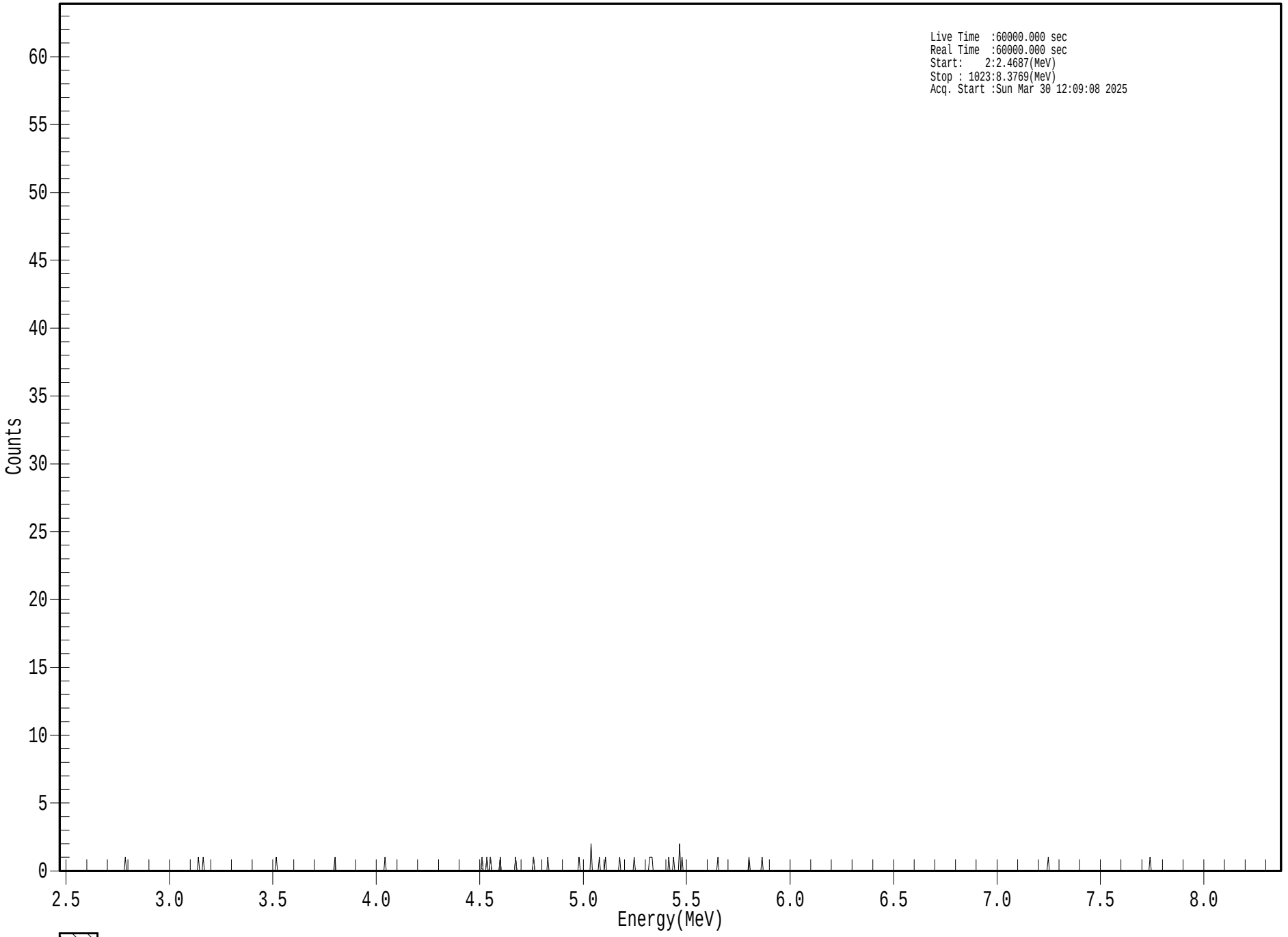
Detector Name: A_4_5B
Sample Title: DET 42 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 2:26:06 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	275-	406	371.17	4604.94	5.79	6.00E+00	2.45	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

42.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4687(MeV)
Stop : 1023:8.3769(MeV)
Acq. Start :Sun Mar 30 12:09:08 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\43.CNF

Report Generated On : 4/2/2025 2:28:01 PM

Sample Title : DET 43 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:09 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

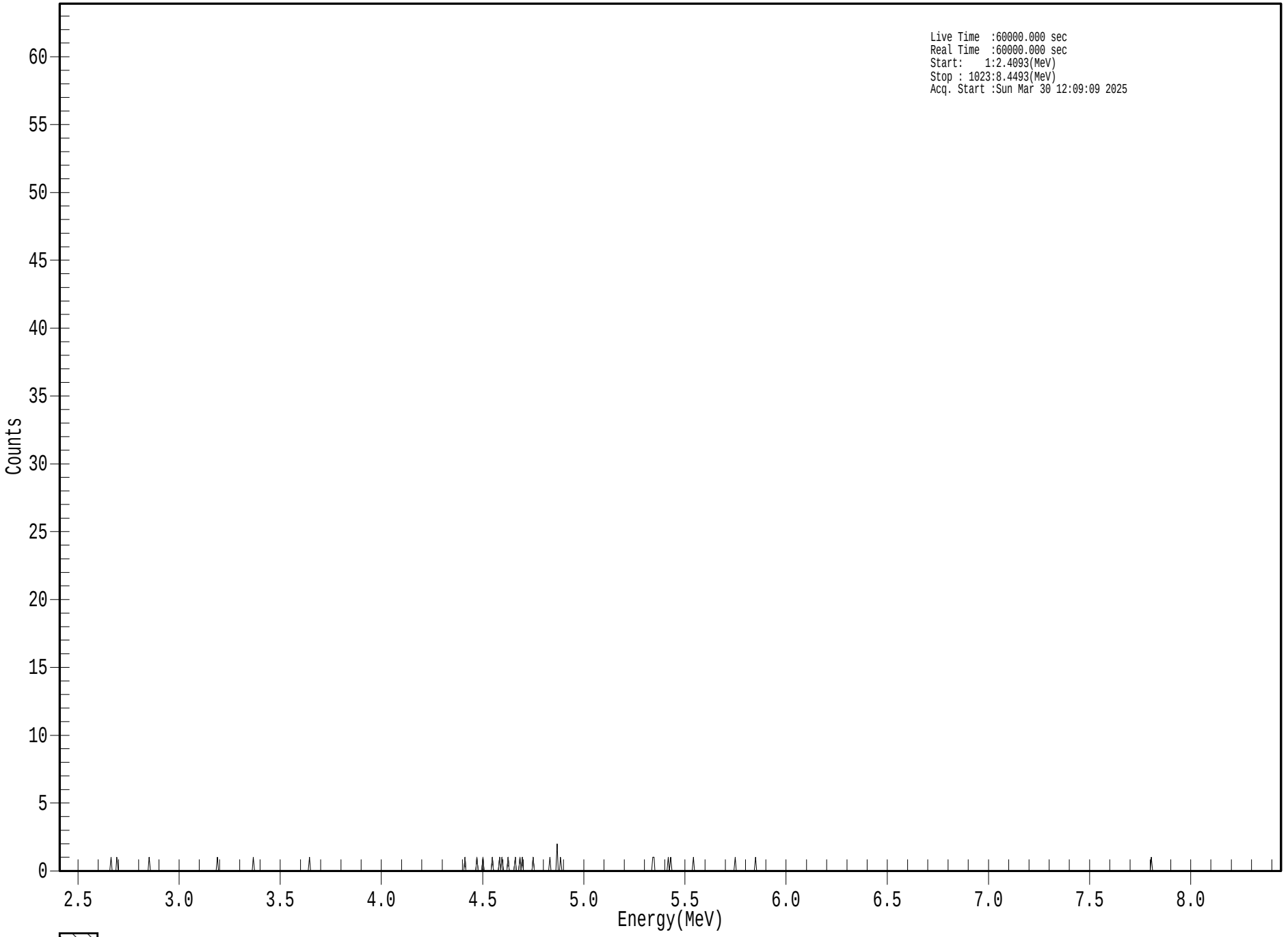
Detector Name: A_4_6A
Sample Title: DET 43 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 2:28:01 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	279-	407	370.64	4593.87	5.91	1.10E+01	3.32	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

43.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4093(MeV)
Stop : 1023:8.4493(MeV)
Acq. Start :Sun Mar 30 12:09:09 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\44.CNF

Report Generated On : 4/2/2025 2:29:36 PM

Sample Title : DET 44 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:11 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

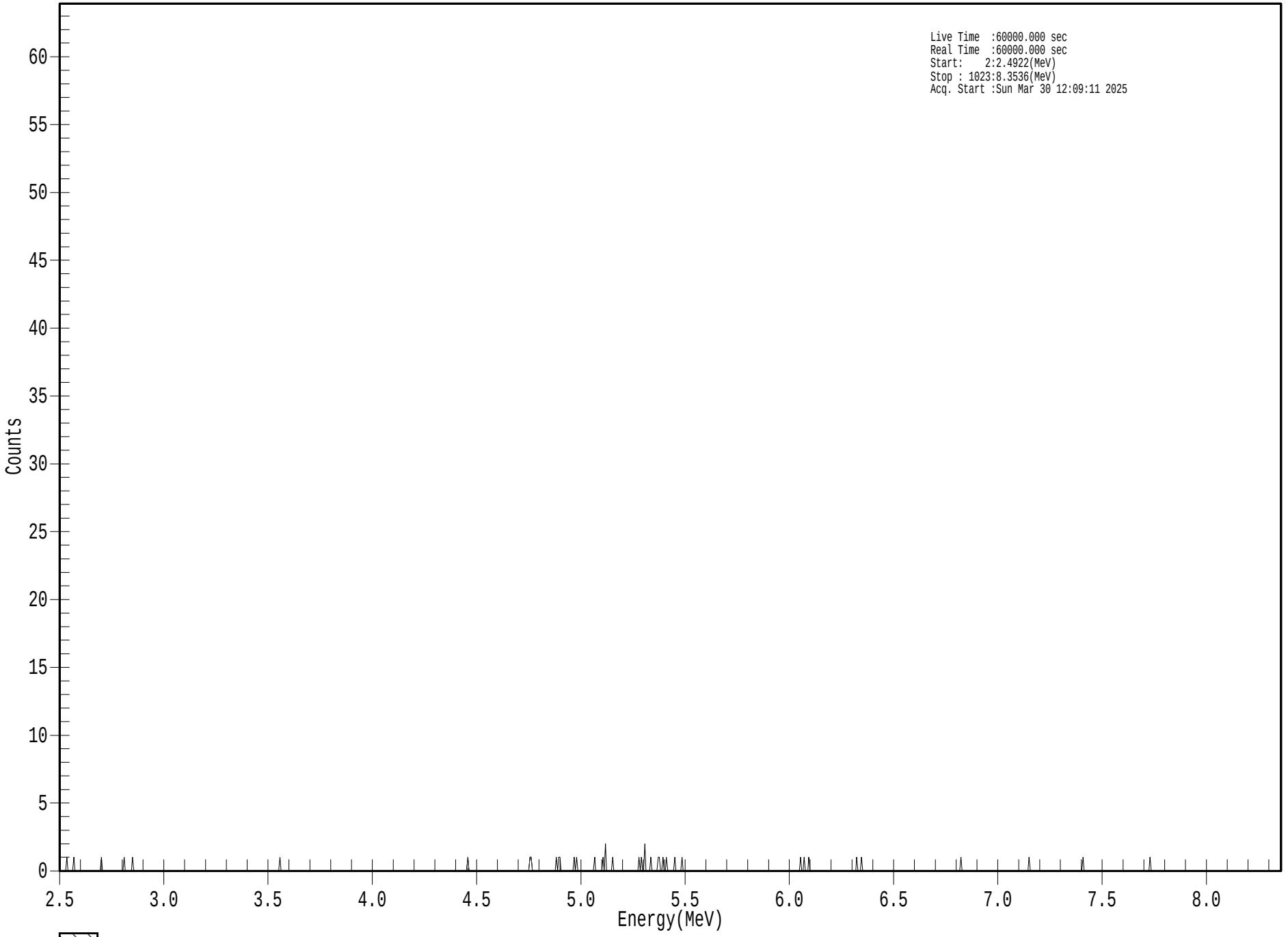
Detector Name: A_4_6B
Sample Title: DET 44 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 2:29:36 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	274-	406	378.00	4650.76	5.74	3.00E+00	1.73	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

44.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4922(MeV)
Stop : 1023:8.3536(MeV)
Acq. Start :Sun Mar 30 12:09:11 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\51.CNF

Report Generated On : 4/3/2025 9:21:06 AM

Sample Title : DET 51 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:17 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

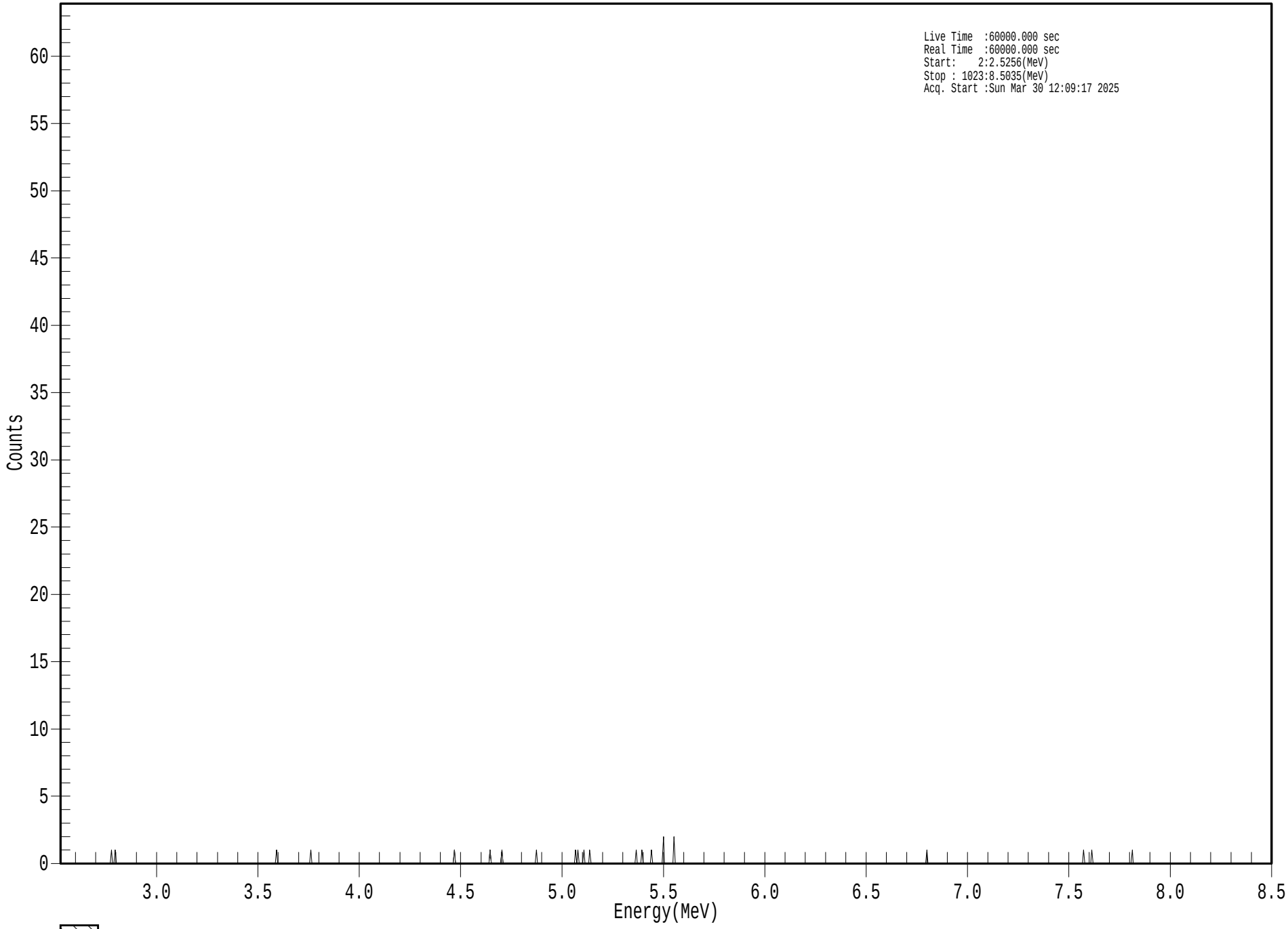
Detector Name: A_1_4A
Sample Title: DET 51 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 9:21:06 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	262-	392	357.33	4606.05	5.85	3.00E+00	1.73	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

51.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.5256(MeV)
Stop : 1023:8.5035(MeV)
Acq. Start :Sun Mar 30 12:09:17 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\52.CNF

Report Generated On : 4/3/2025 9:23:39 AM

Sample Title : DET 52 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:19 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 1/3/2025
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

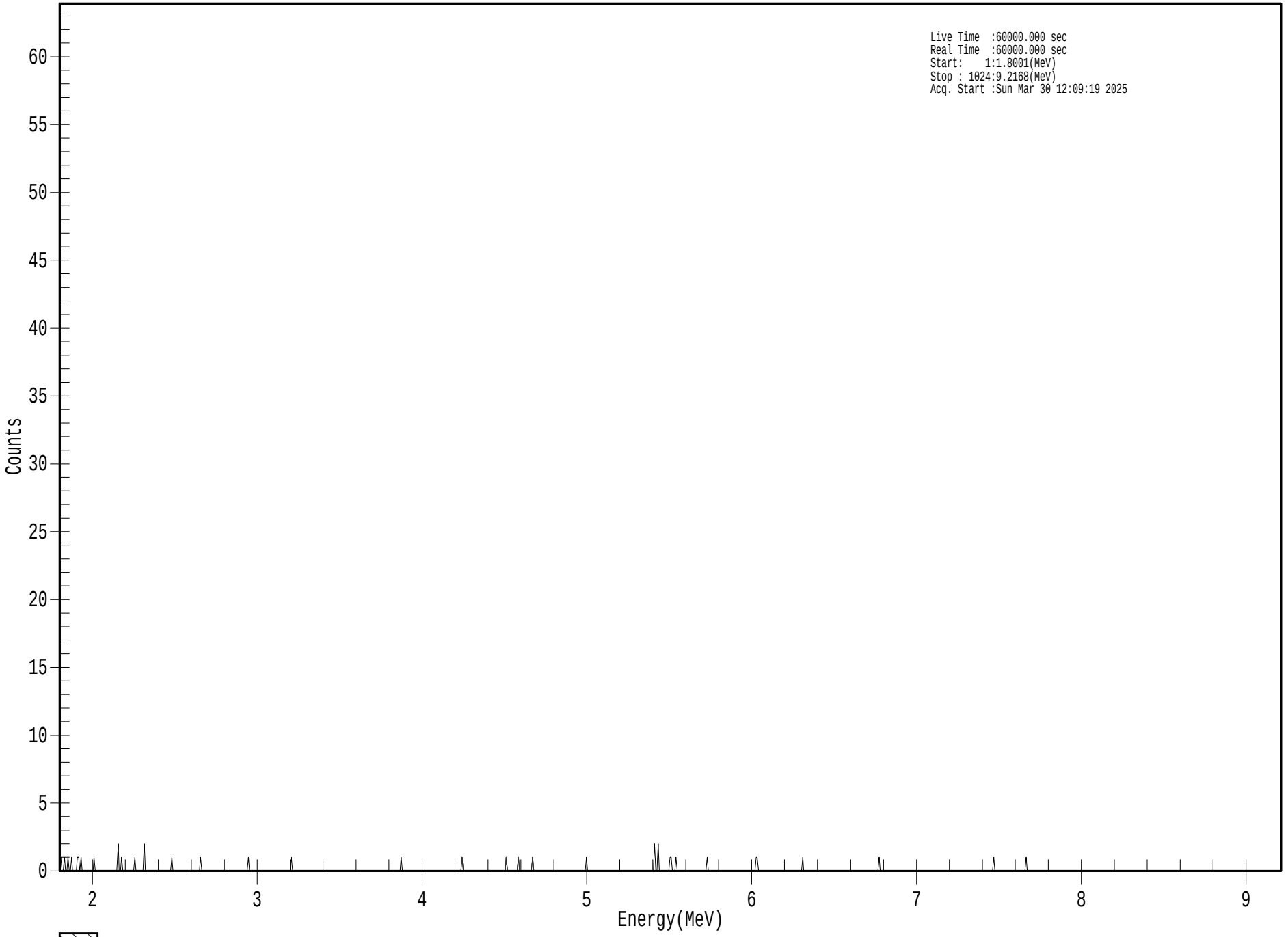
Detector Name: A_1_4B
Sample Title: DET 52 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 9:23:39 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	311-	416	373.75	4502.53	7.25	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

52.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:1.8001(MeV)
Stop : 1024:9.2168(MeV)
Acq. Start :Sun Mar 30 12:09:19 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2
3
4
5
6
7
8
9
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\55.CNF

Report Generated On : 4/3/2025 9:25:32 AM

Sample Title : DET 55 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:21 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 3/27/2025
Efficiency Calibration Used Done On : 3/27/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

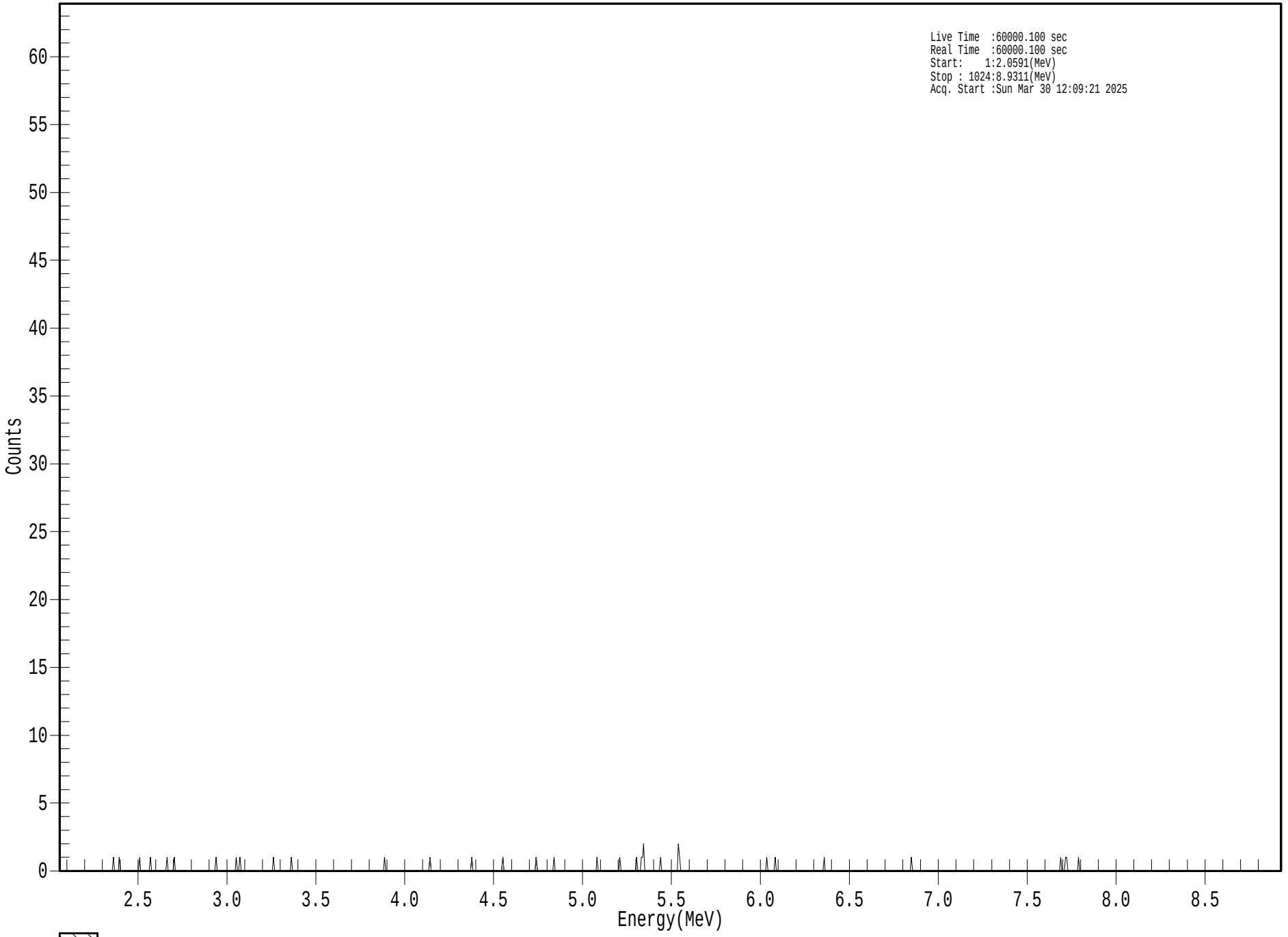
Detector Name: A_1_6A
Sample Title: DET 55 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 9:25:32 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	297-	410	357.25	4452.22	6.72	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

55.CNF


Live Time :60000.100 sec
Real Time :60000.100 sec
Start: 1:2.0591(MeV)
Stop : 1024:8.9311(MeV)
Acq. Start :Sun Mar 30 12:09:21 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\56.CNF

Report Generated On : 4/3/2025 10:44:43 AM

Sample Title : DET 56 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:23 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

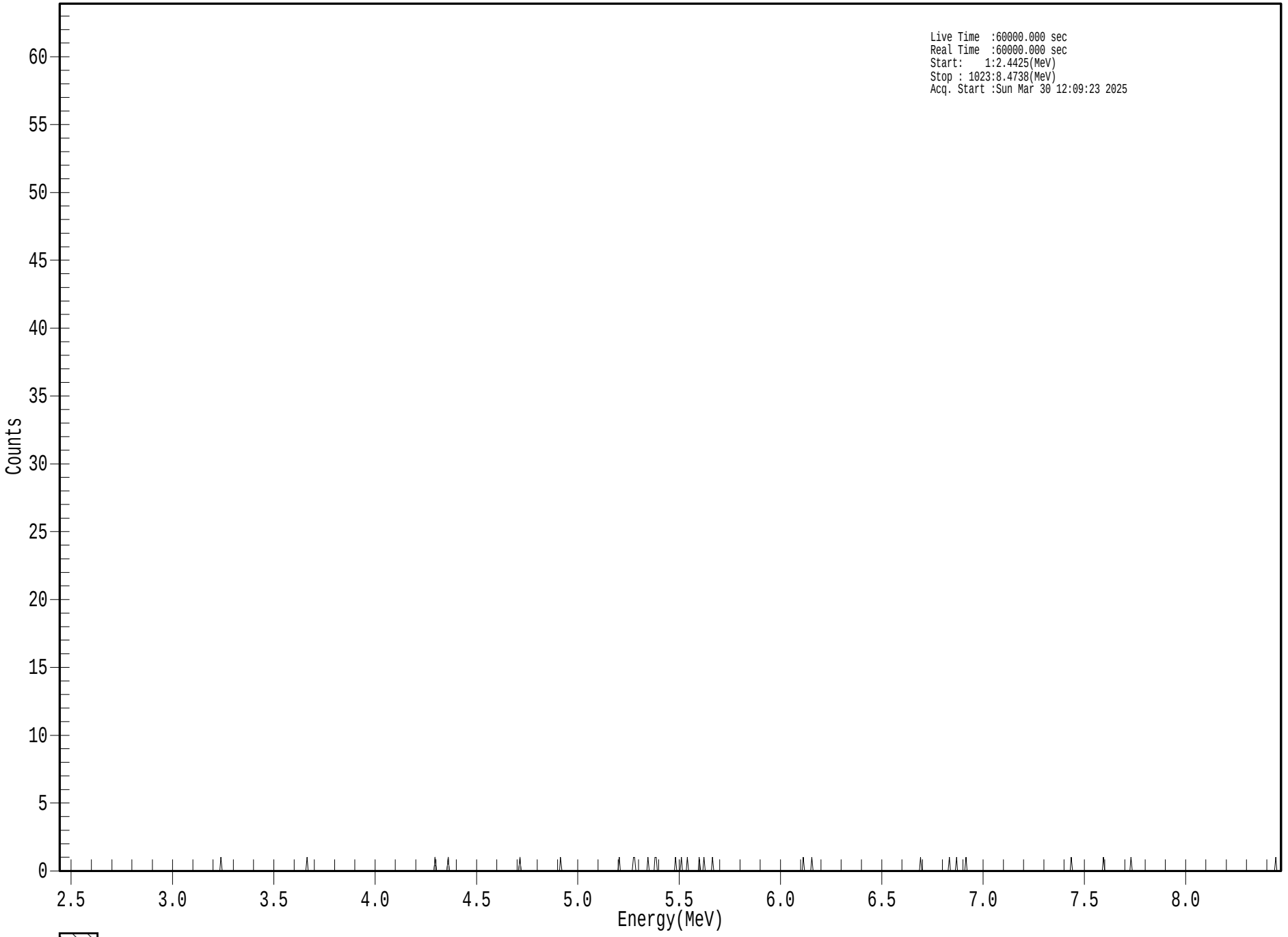
Detector Name: A_1_6B
Sample Title: DET 56 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 10:44:43 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	274-	402	342.33	4456.89	5.90	3.00E+00	1.73	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

56.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4425(MeV)
Stop : 1023:8.4738(MeV)
Acq. Start :Sun Mar 30 12:09:23 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\57.CNF

Report Generated On : 4/3/2025 10:46:30 AM

Sample Title : DET 57 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:30 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 3/28/2025
Efficiency Calibration Used Done On : 3/28/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

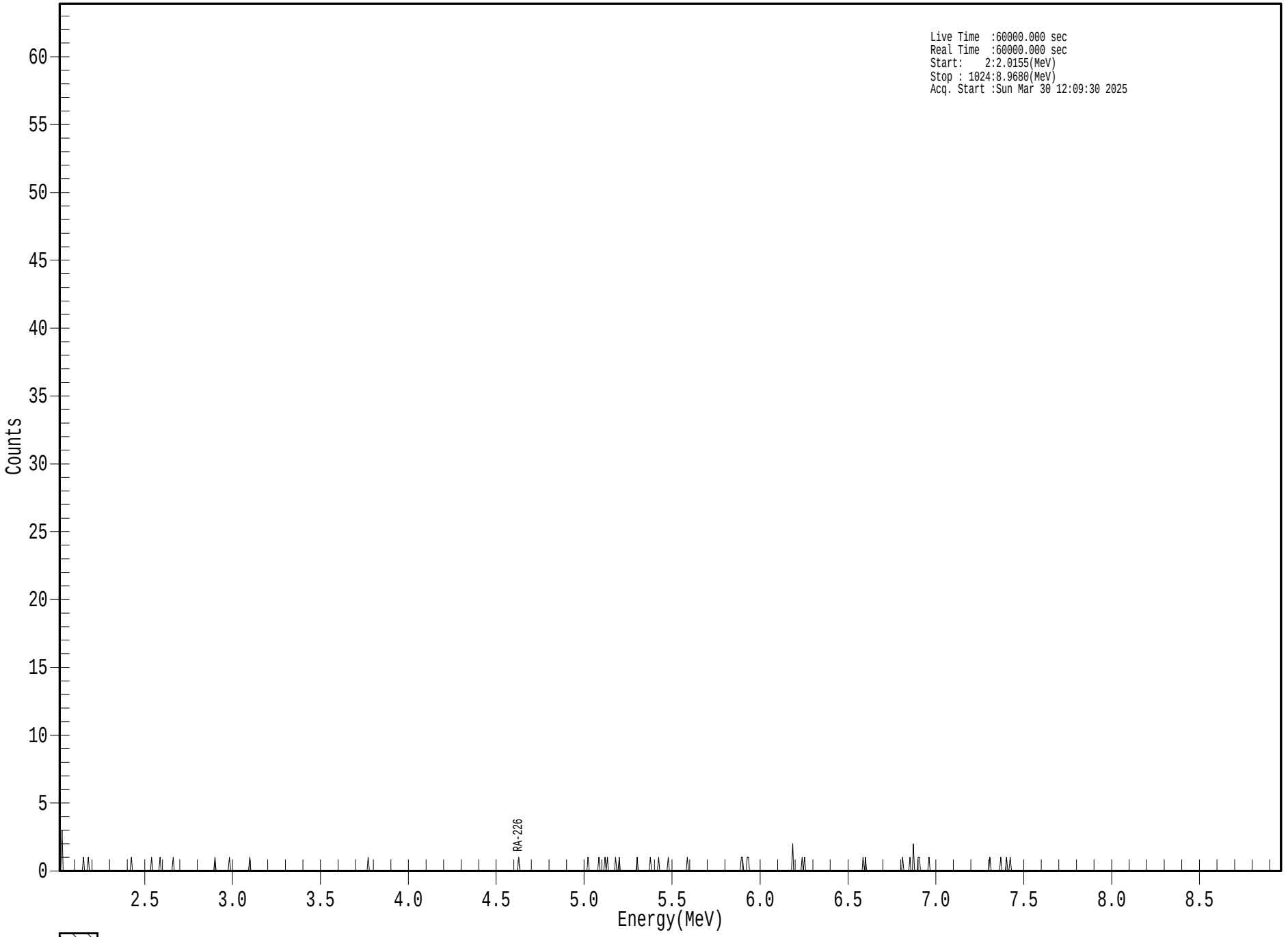
Detector Name: A_2_1A
Sample Title: DET 57 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 10:46:30 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	301-	413	386.00	4627.76	6.80	1.00E+00	1.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

57.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.0155(MeV)
Stop : 1024:8.9680(MeV)
Acq. Start :Sun Mar 30 12:09:30 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

```
**************************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**************************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\58.CNF

Report Generated On             : 4/3/2025   10:48:14 AM

Sample Title                    : DET 58 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:09:28 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.0 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

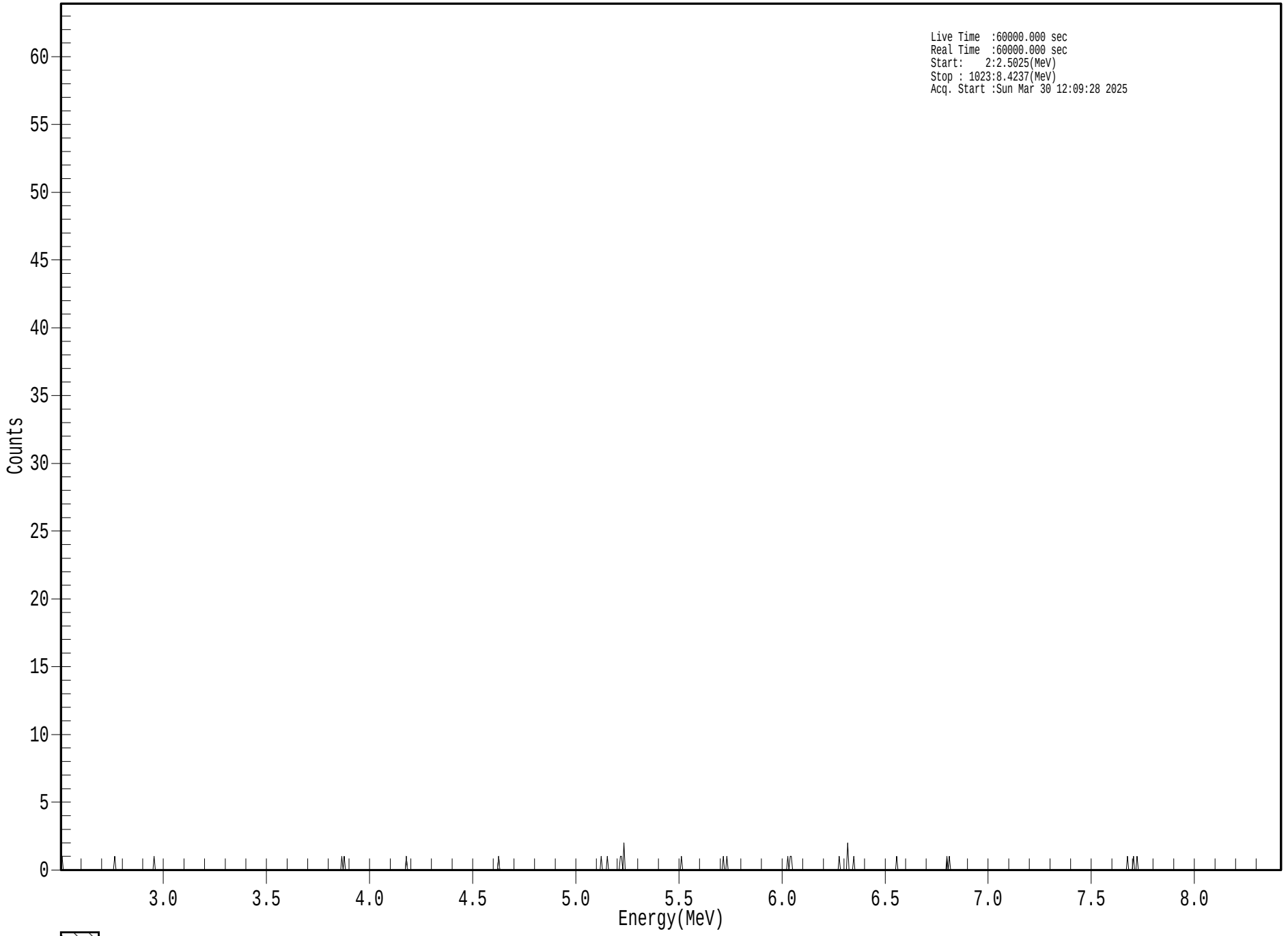
Detector Name: A_2_1B
Sample Title: DET 58 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 10:48:14 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	269-	400	329.50	4401.79	5.80	2.00E+00	1.41	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

58.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.5025(MeV)
Stop : 1023:8.4237(MeV)
Acq. Start :Sun Mar 30 12:09:28 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\61.CNF

Report Generated On : 4/3/2025 10:50:05 AM

Sample Title : DET 61 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:32 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

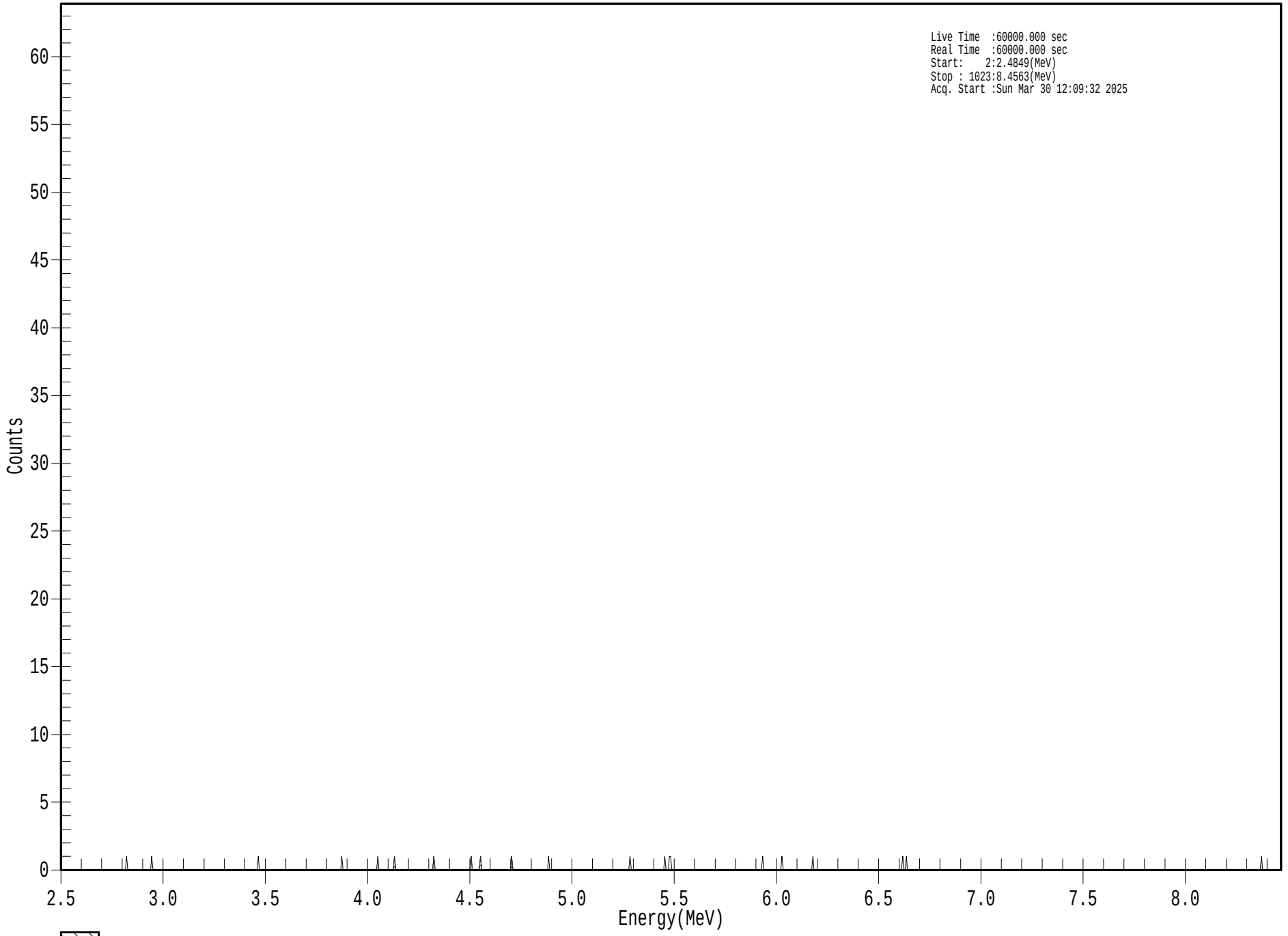
Detector Name: A_2_3A
Sample Title: DET 61 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 10:50:05 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	270-	399	334.40	4428.97	5.85	5.00E+00	2.24	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

61.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4849(MeV)
Stop : 1023:8.4563(MeV)
Acq. Start :Sun Mar 30 12:09:32 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\62.CNF

Report Generated On : 4/3/2025 10:51:47 AM

Sample Title : DET 62 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:34 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/18/2025
Efficiency Calibration Used Done On : 2/18/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

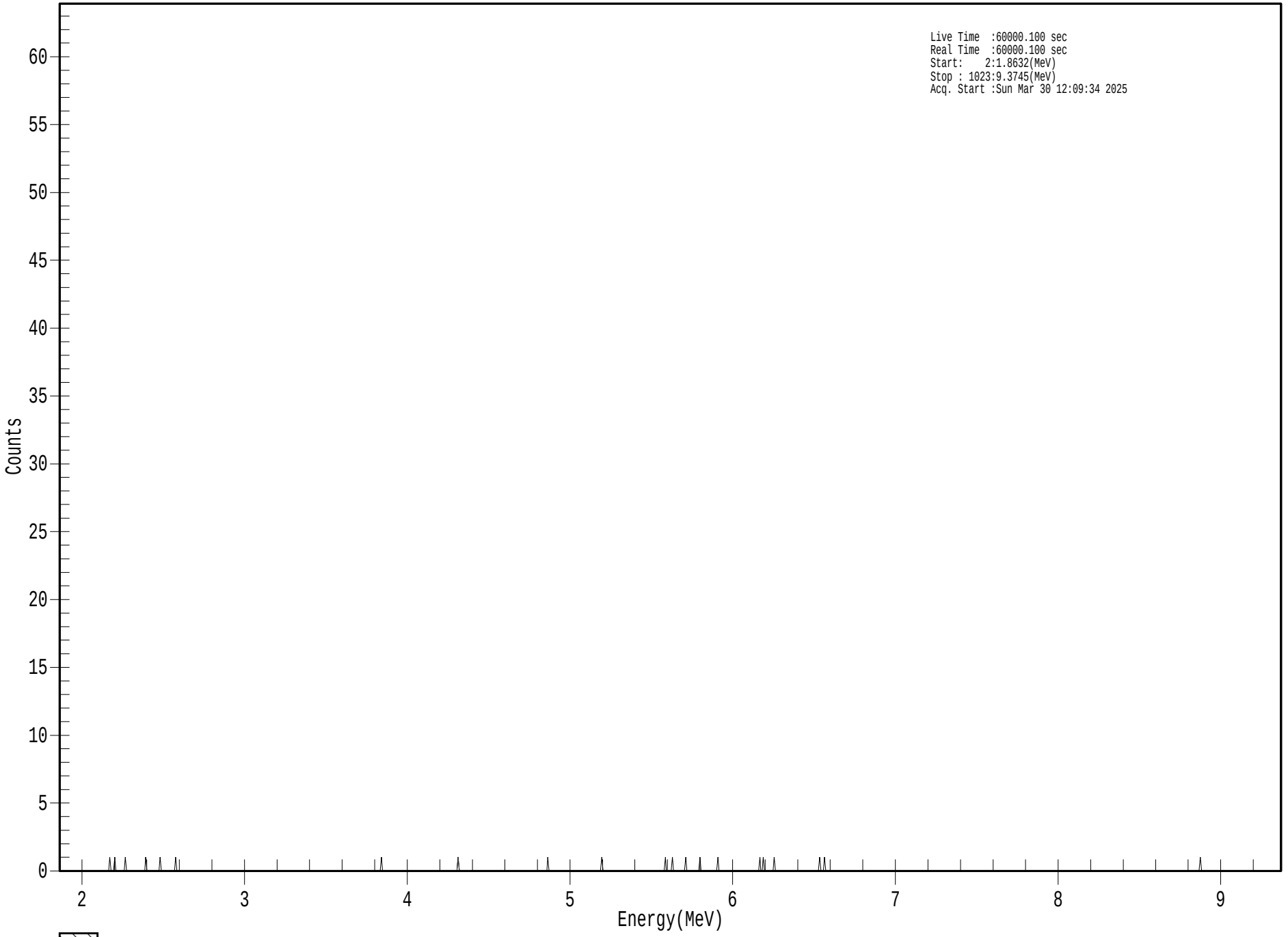
Detector Name: A_2_3B
Sample Title: DET 62 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 10:51:47 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	299-	402	335.00	4313.02	7.36	1.00E+00	1.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

62.CNF


Live Time :60000.100 sec
Real Time :60000.100 sec
Start: 2:1.8632(MeV)
Stop : 1023:9.3745(MeV)
Acq. Start :Sun Mar 30 12:09:34 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2
3
4
5
6
7
8
9
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\65.CNF

Report Generated On : 4/3/2025 11:08:03 AM

Sample Title : DET 65 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:36 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

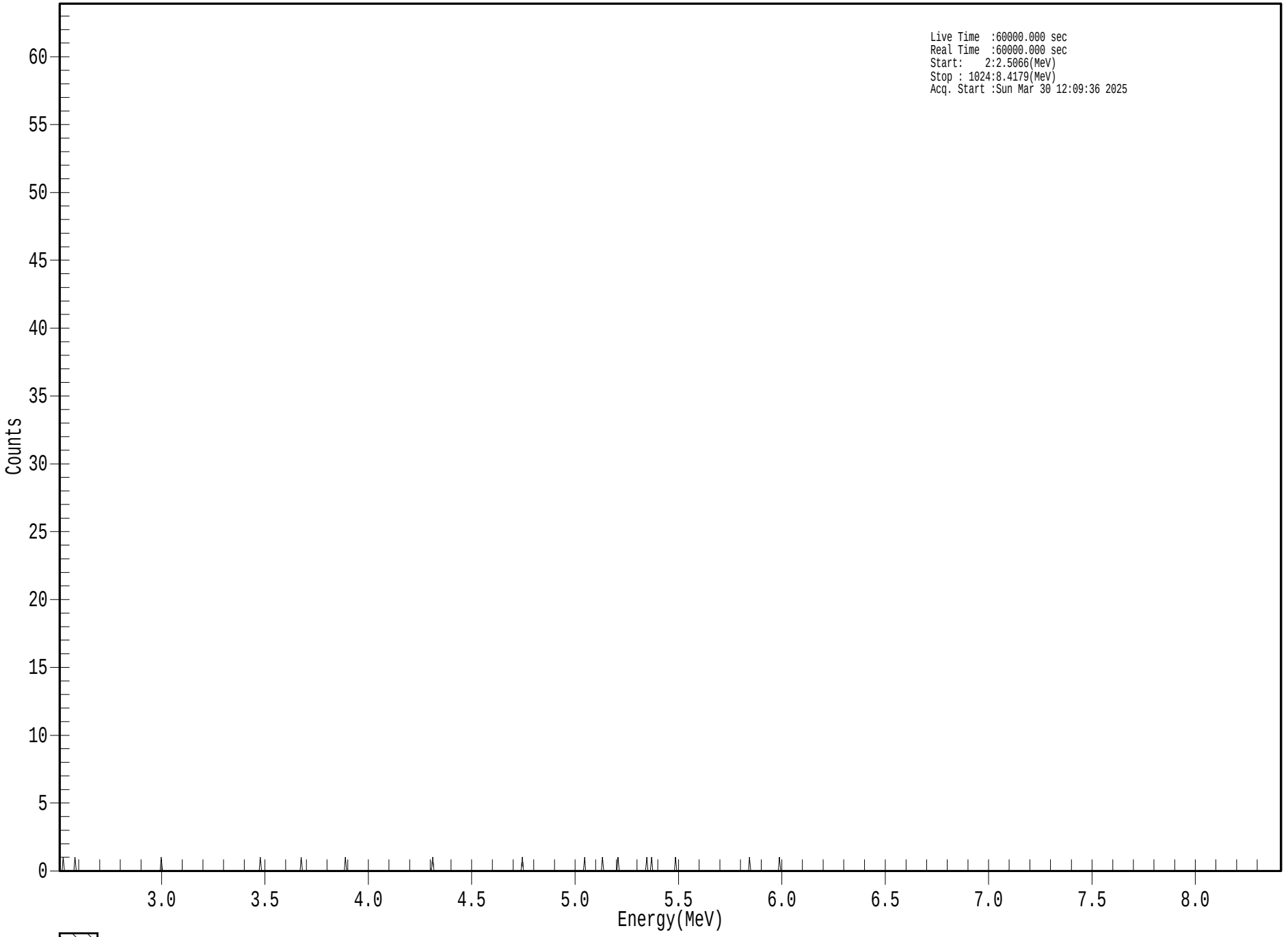
Detector Name: A_2_5A
Sample Title: DET 65 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:08:03 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	269-	400	351.50	4528.09	5.78	2.00E+00	1.41	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

65.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.5066(MeV)
Stop : 1024:8.4179(MeV)
Acq. Start :Sun Mar 30 12:09:36 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\66.CNF

Report Generated On : 4/3/2025 11:13:08 AM

Sample Title : DET 66 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:38 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 3/27/2025
Efficiency Calibration Used Done On : 3/27/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

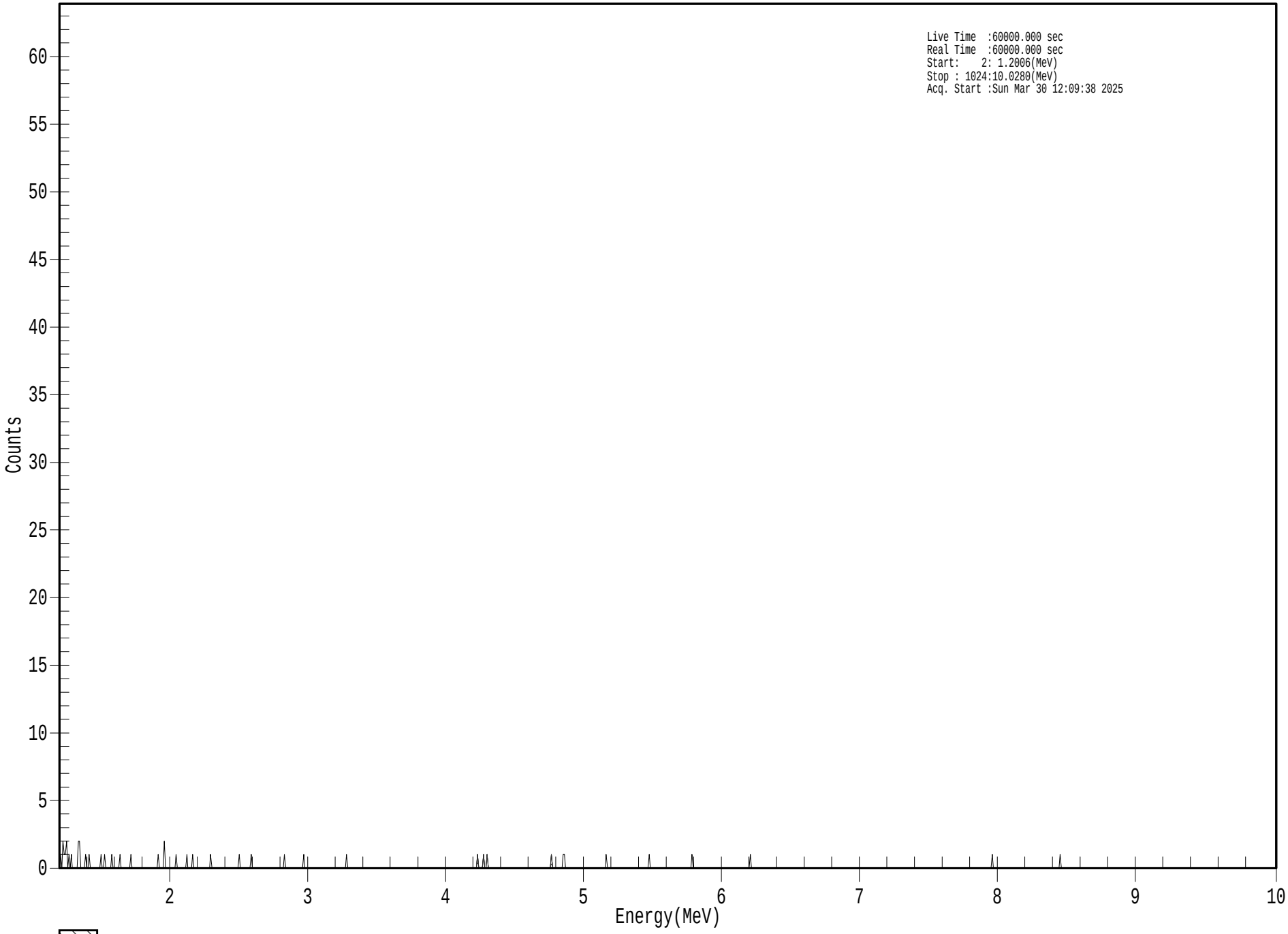
Detector Name: A_2_5B
Sample Title: DET 66 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:13:08 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	332-	420	371.75	4394.27	8.64	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

66.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2: 1.2006(MeV)
Stop : 1024:10.0280(MeV)
Acq. Start :Sun Mar 30 12:09:38 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2
3
4
5
6
7
8
9
10
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\67.CNF

Report Generated On : 4/3/2025 11:15:01 AM

Sample Title : DET 67 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:39 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/18/2025
Efficiency Calibration Used Done On : 2/18/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

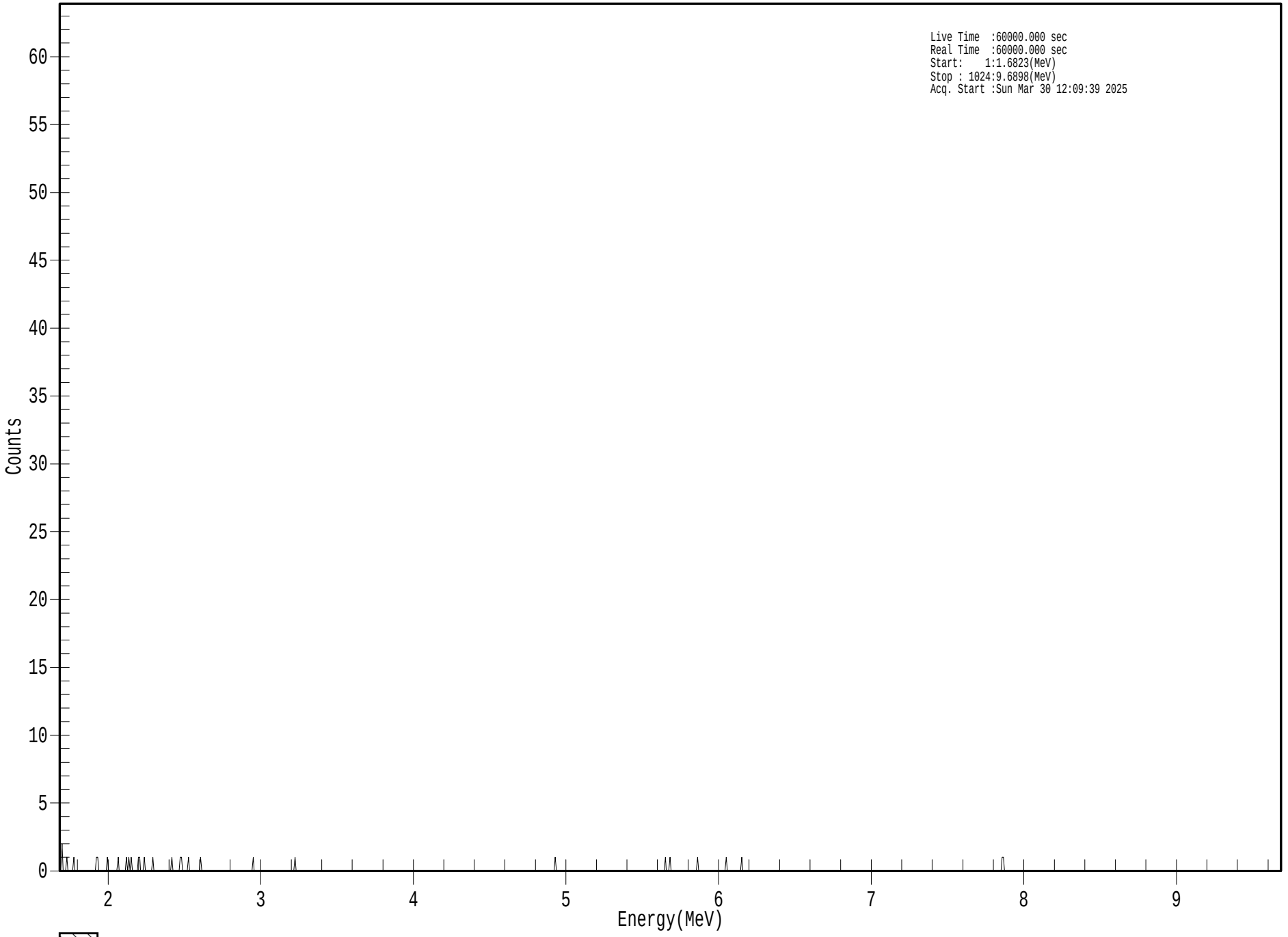
Detector Name: A_2_6A
Sample Title: DET 67 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:15:01 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	303-	400	351.00	4421.91	0.00	0.00E+00	0.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

67.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:1.6823(MeV)
Stop : 1024:9.6898(MeV)
Acq. Start :Sun Mar 30 12:09:39 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2
3
4
5
6
7
8
9
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\68.CNF

Report Generated On : 4/3/2025 11:17:01 AM

Sample Title : DET 68 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:41 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

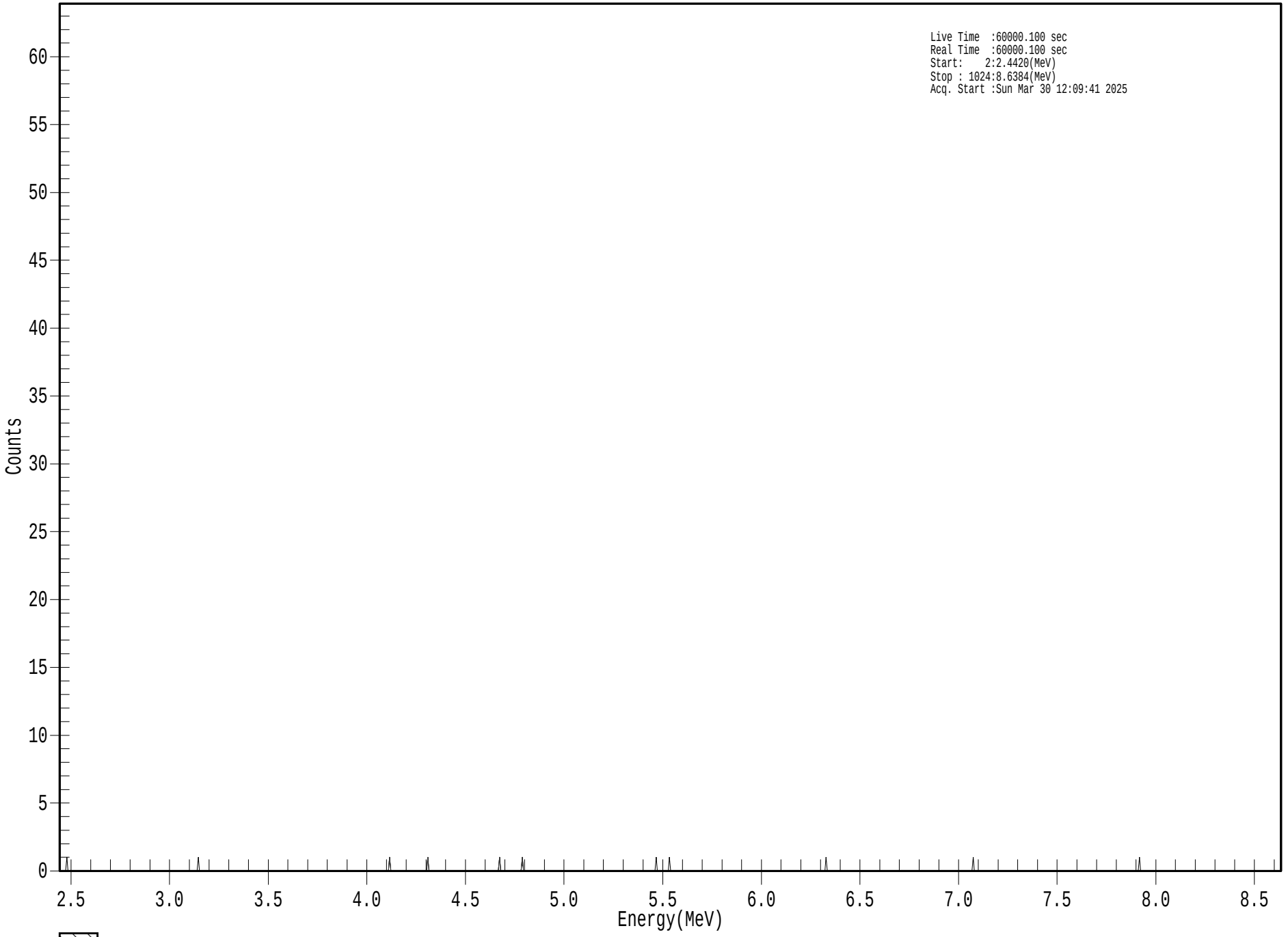
Detector Name: A_2_6B
Sample Title: DET 68 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:17:01 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	267-	392	336.75	4471.62	6.06	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

68.CNF


Live Time :60000.100 sec
Real Time :60000.100 sec
Start: 2:2.4420(MeV)
Stop : 1024:8.6384(MeV)
Acq. Start :Sun Mar 30 12:09:41 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\69.CNF

Report Generated On : 4/3/2025 11:18:52 AM

Sample Title : DET 69 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:53 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

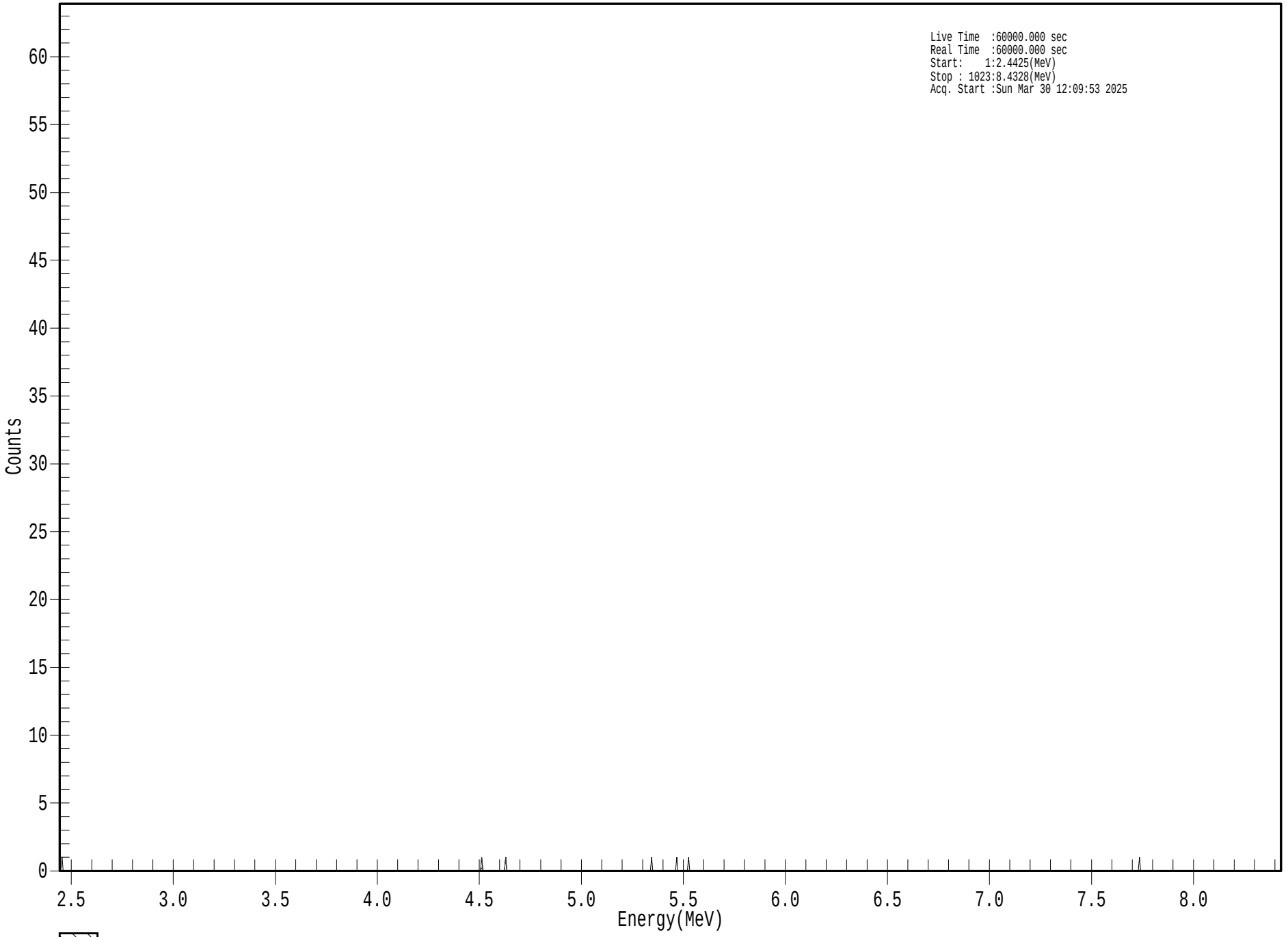
Detector Name: A_3_1A
Sample Title: DET 69 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:18:52 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	275-	405	364.00	4570.19	5.86	2.00E+00	1.41	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

69.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4425(MeV)
Stop : 1023:8.4328(MeV)
Acq. Start :Sun Mar 30 12:09:53 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\70.CNF

Report Generated On : 4/3/2025 11:20:28 AM

Sample Title : DET 70 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:54 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

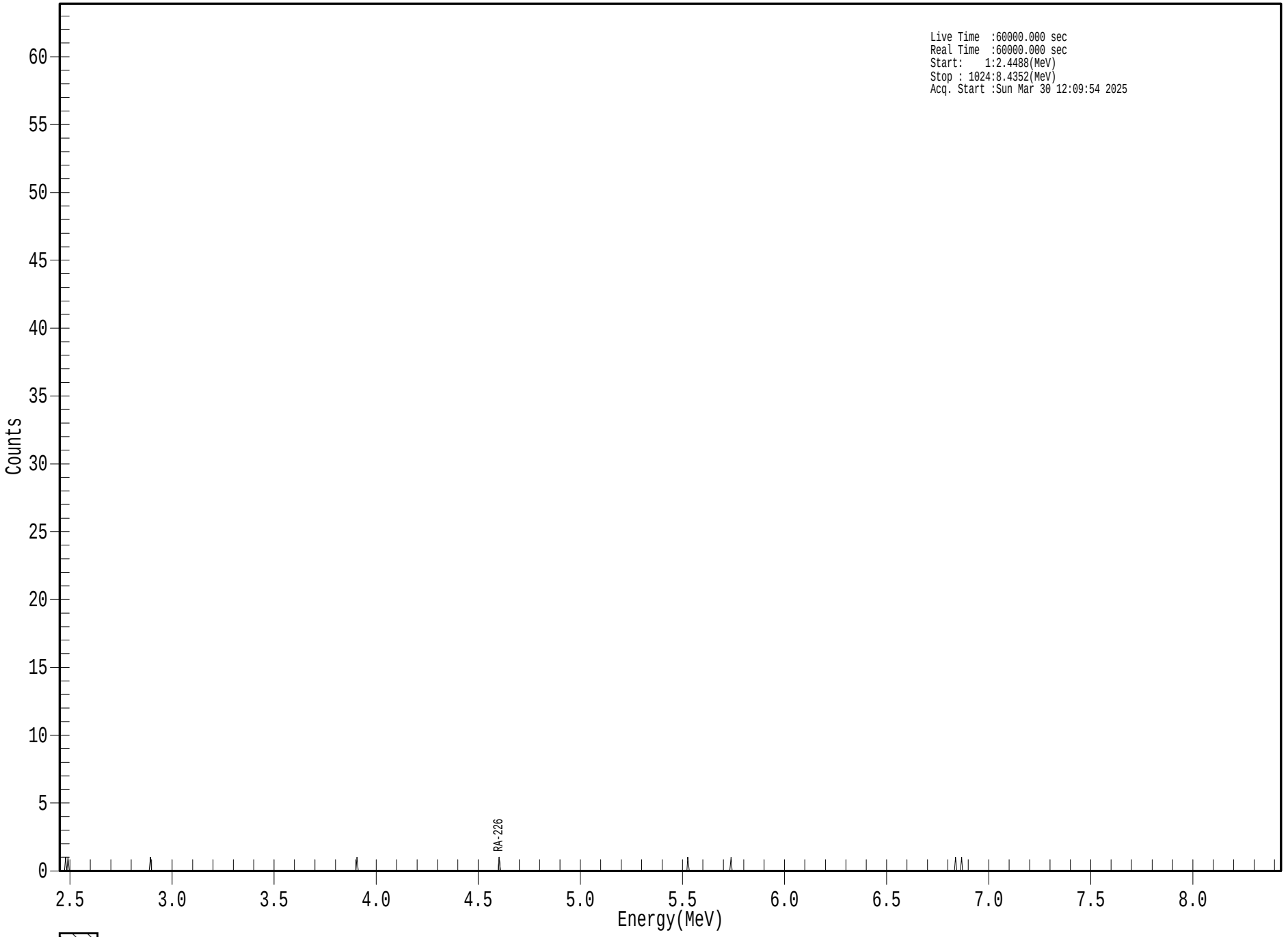
Detector Name: A_3_1B
Sample Title: DET 70 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:20:28 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	275-	404	369.00	4602.28	5.85	1.00E+00	1.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

70.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4488(MeV)
Stop : 1024:8.4352(MeV)
Acq. Start :Sun Mar 30 12:09:54 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\71.CNF

Report Generated On : 4/3/2025 11:22:40 AM

Sample Title : DET 71 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:56 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

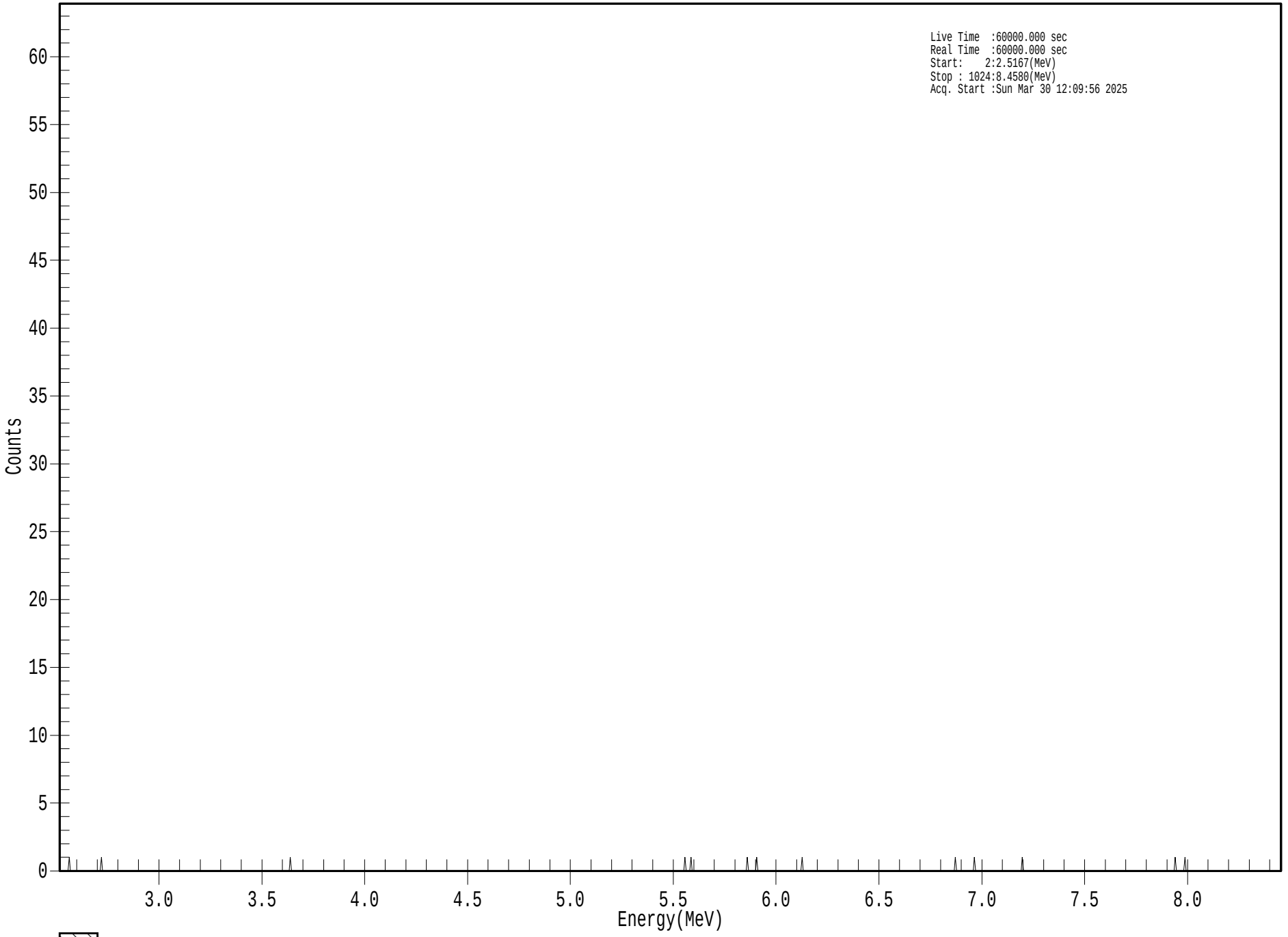
Detector Name: A_3_2A
Sample Title: DET 71 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:22:40 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	266-	396	331.00	4429.29	0.00	0.00E+00	0.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

71.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.5167(MeV)
Stop : 1024:8.4580(MeV)
Acq. Start :Sun Mar 30 12:09:56 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\72.CNF

Report Generated On : 4/3/2025 11:24:34 AM

Sample Title : DET 72 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:58 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

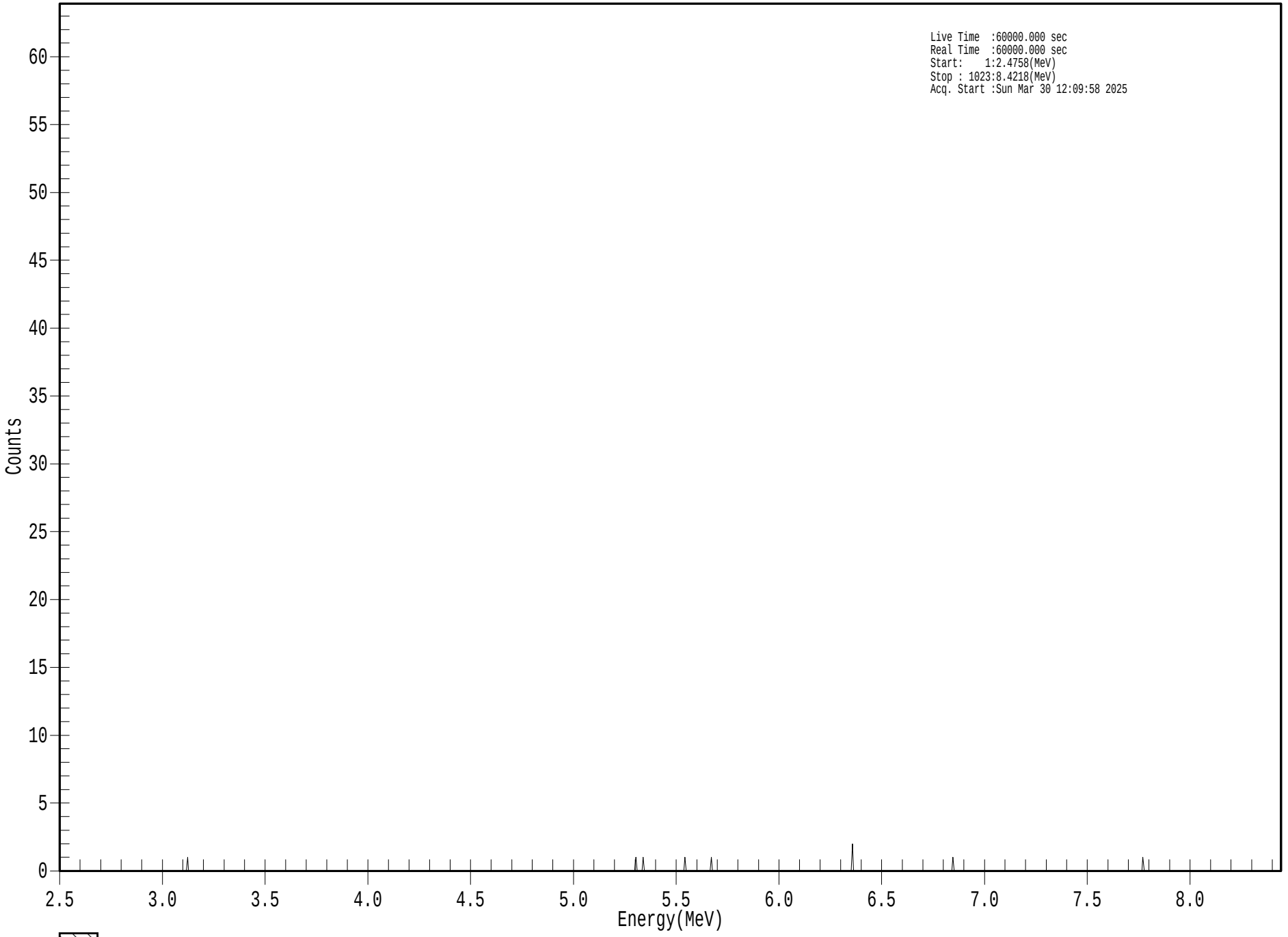
Detector Name: A_3_2B
Sample Title: DET 72 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:24:34 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	272-	402	337.00	4430.69	0.00	0.00E+00	0.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

72.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4758(MeV)
Stop : 1023:8.4218(MeV)
Acq. Start :Sun Mar 30 12:09:58 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\75.CNF

Report Generated On : 4/3/2025 11:26:30 AM

Sample Title : DET 75 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:00 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/18/2025
Efficiency Calibration Used Done On : 2/18/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

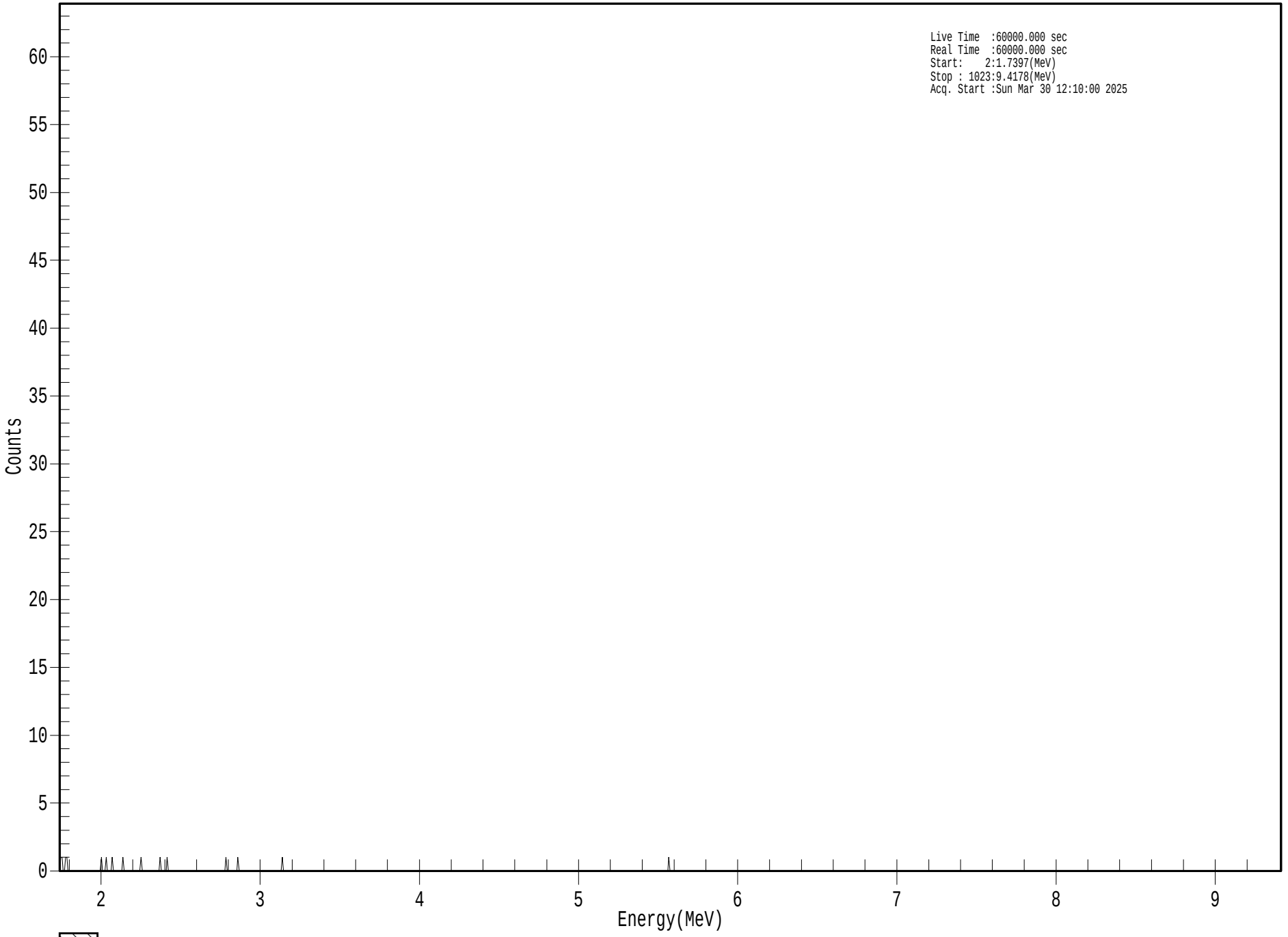
Detector Name: A_3_4A
Sample Title: DET 75 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:26:30 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	309-	410	359.00	4424.40	0.00	0.00E+00	0.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

75.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:1.7397(MeV)
Stop : 1023:9.4178(MeV)
Acq. Start :Sun Mar 30 12:10:00 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2
3
4
5
6
7
8
9
Energy(MeV)
ROI Type: 1

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\76.CNF

Report Generated On             : 4/3/2025   11:28:31 AM

Sample Title                    : DET 76 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:10:02 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.0 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/7/2024
              Efficiency Calibration Used Done On   : 11/7/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

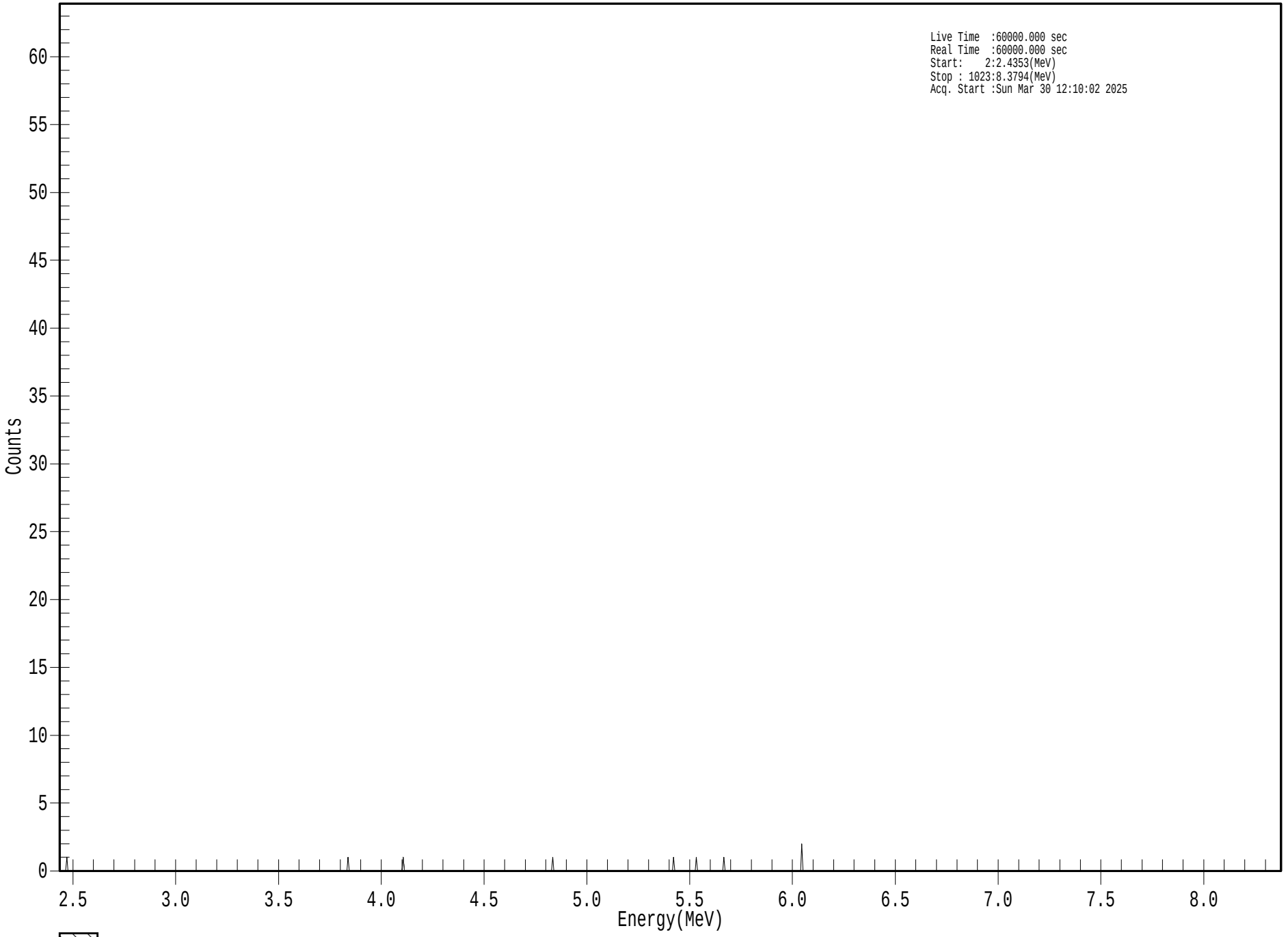
Detector Name: A_3_4B
Sample Title: DET 76 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:28:31 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	279-	410	289.00	4106.15	5.82	1.00E+00	1.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

76.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4353(MeV)
Stop : 1023:8.3794(MeV)
Acq. Start :Sun Mar 30 12:10:02 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\77.CNF

Report Generated On : 4/3/2025 11:30:36 AM

Sample Title : DET 77 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:03 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

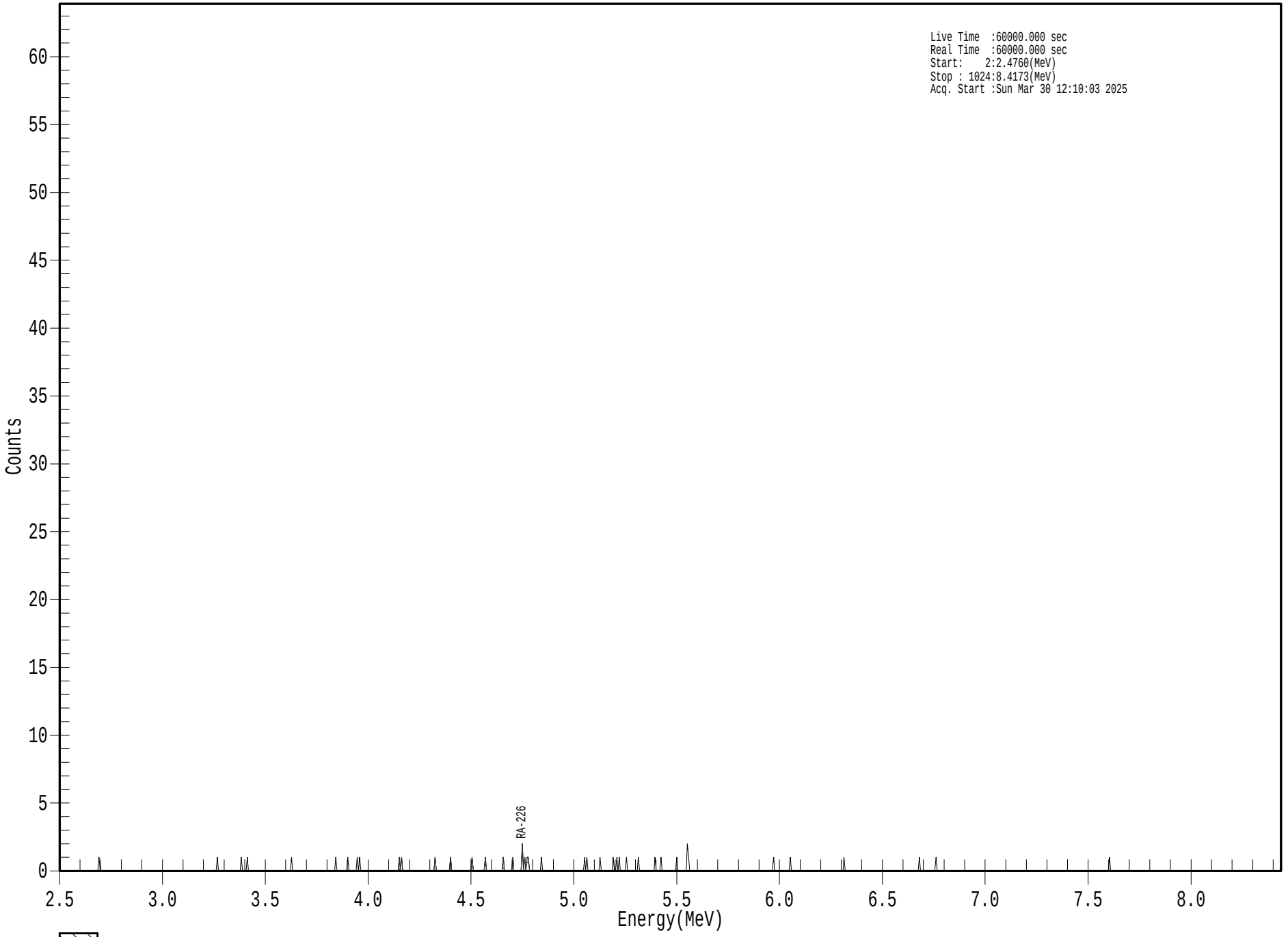
Detector Name: A_3_5A
Sample Title: DET 77 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:30:36 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	273-	403	356.46	4536.62	5.81	1.30E+01	3.61	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

77.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4760(MeV)
Stop : 1024:8.4173(MeV)
Acq. Start :Sun Mar 30 12:10:03 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\78.CNF

Report Generated On : 4/3/2025 11:32:32 AM

Sample Title : DET 78 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:05 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

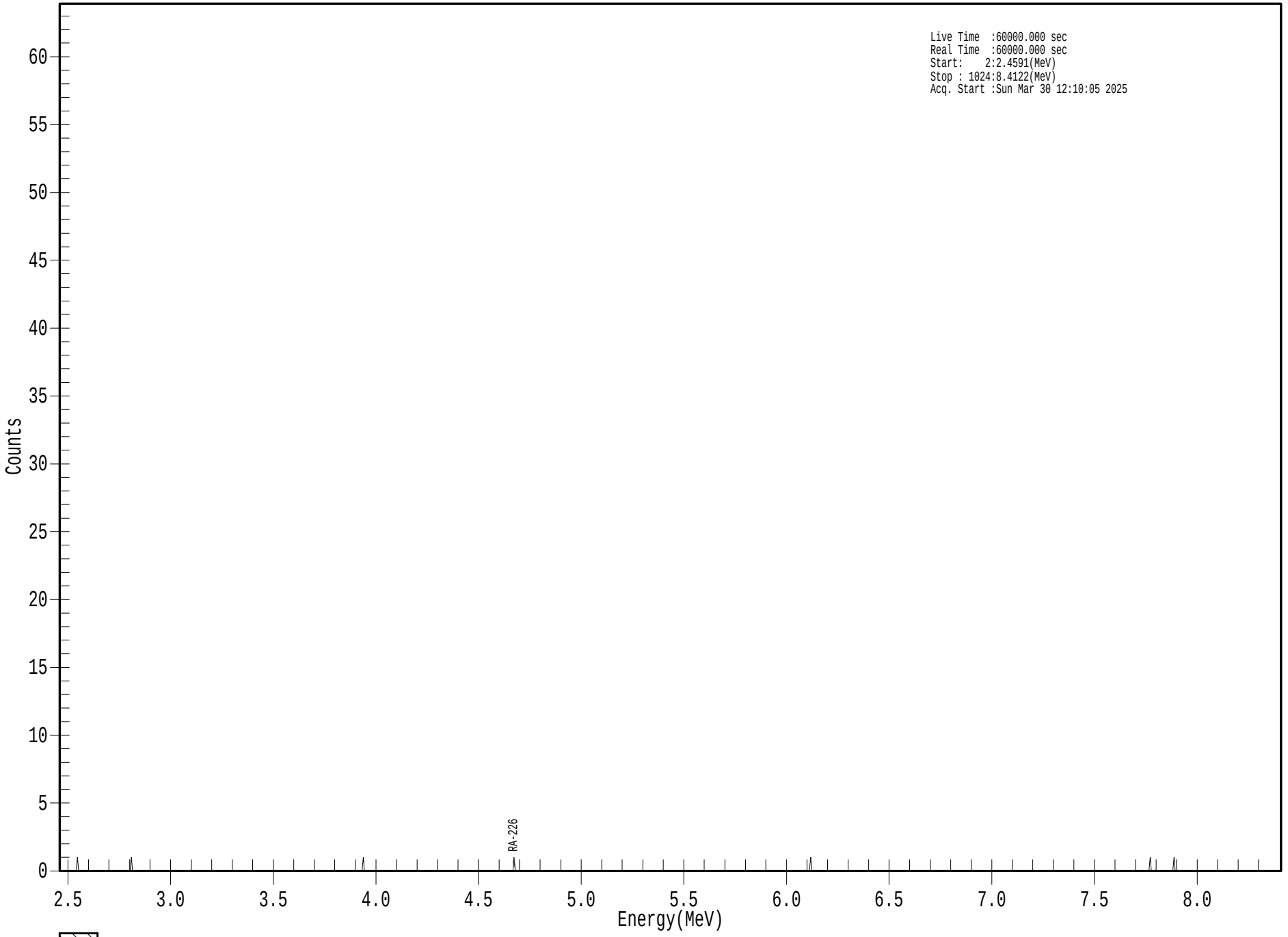
Detector Name: A_3_5B
Sample Title: DET 78 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:32:32 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	275-	405	382.00	4672.58	5.82	1.00E+00	1.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

78.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4591(MeV)
Stop : 1024:8.4122(MeV)
Acq. Start :Sun Mar 30 12:10:05 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
RA-226
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\79.CNF

Report Generated On : 4/3/2025 11:34:31 AM

Sample Title : DET 79 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:07 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 3/12/2025
Efficiency Calibration Used Done On : 3/12/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

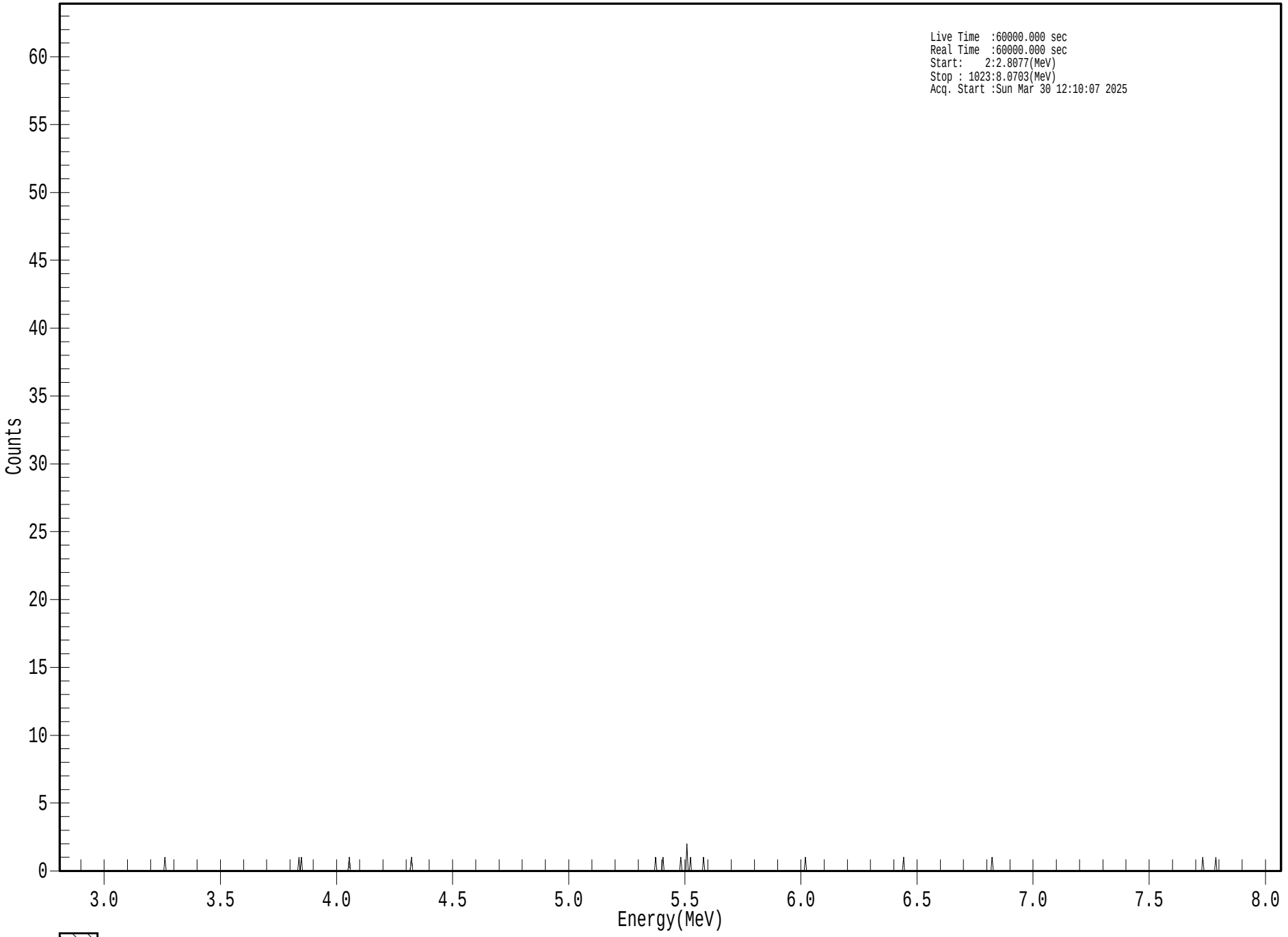
Detector Name: A_3_6A
Sample Title: DET 79 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:34:31 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	243-	390	270.00	4189.10	5.15	2.00E+00	1.41	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

79.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.8077(MeV)
Stop : 1023:8.0703(MeV)
Acq. Start :Sun Mar 30 12:10:07 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\80.CNF

Report Generated On : 4/3/2025 11:36:10 AM

Sample Title : DET 80 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:09 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

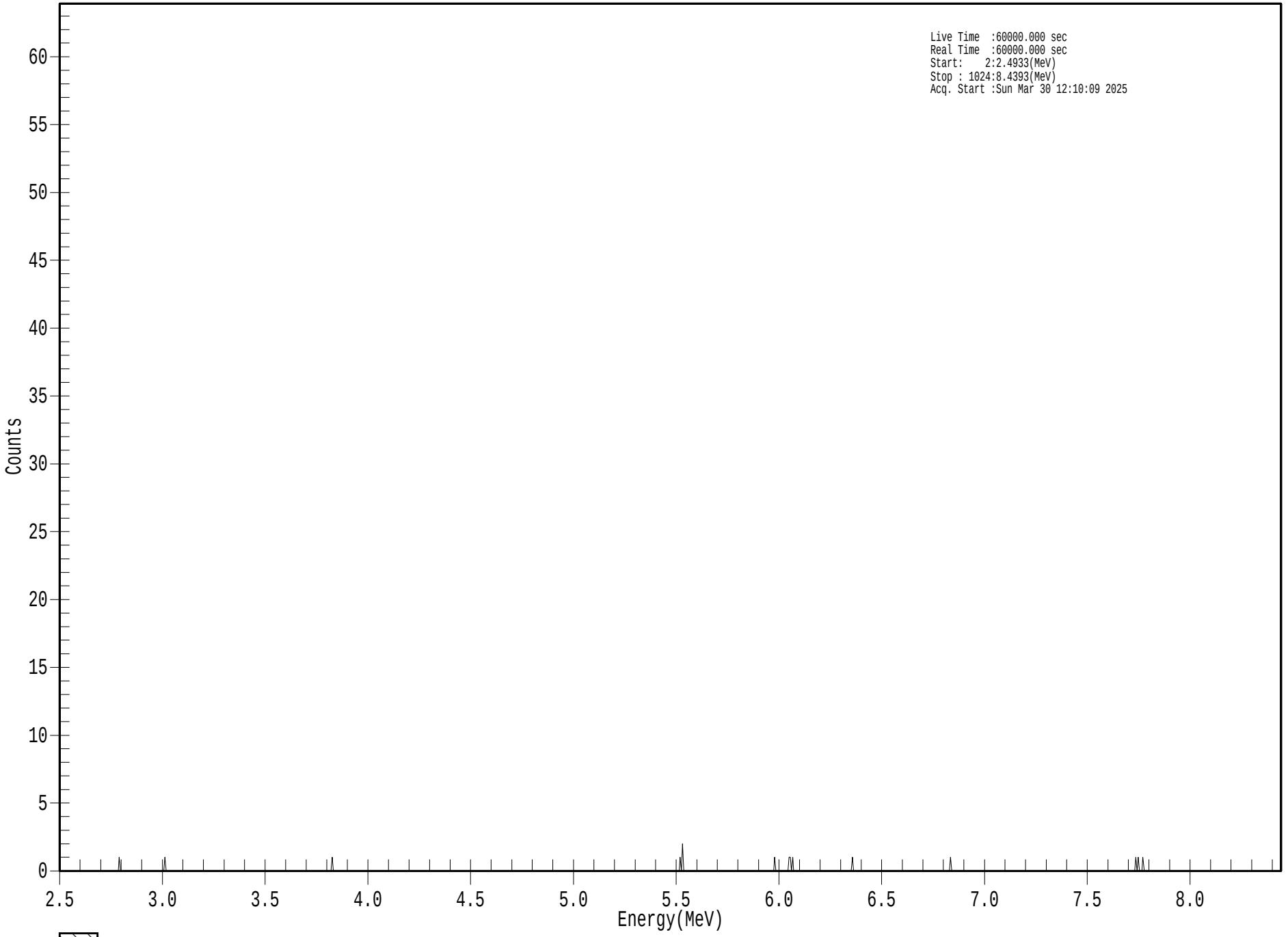
Detector Name: A_3_6B
Sample Title: DET 80 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:36:10 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	270-	400	335.00	4430.69	0.00	0.00E+00	0.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

80.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4933(MeV)
Stop : 1024:8.4393(MeV)
Acq. Start :Sun Mar 30 12:10:09 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

Alpha Spectrometer Daily Source Checks

April-25

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

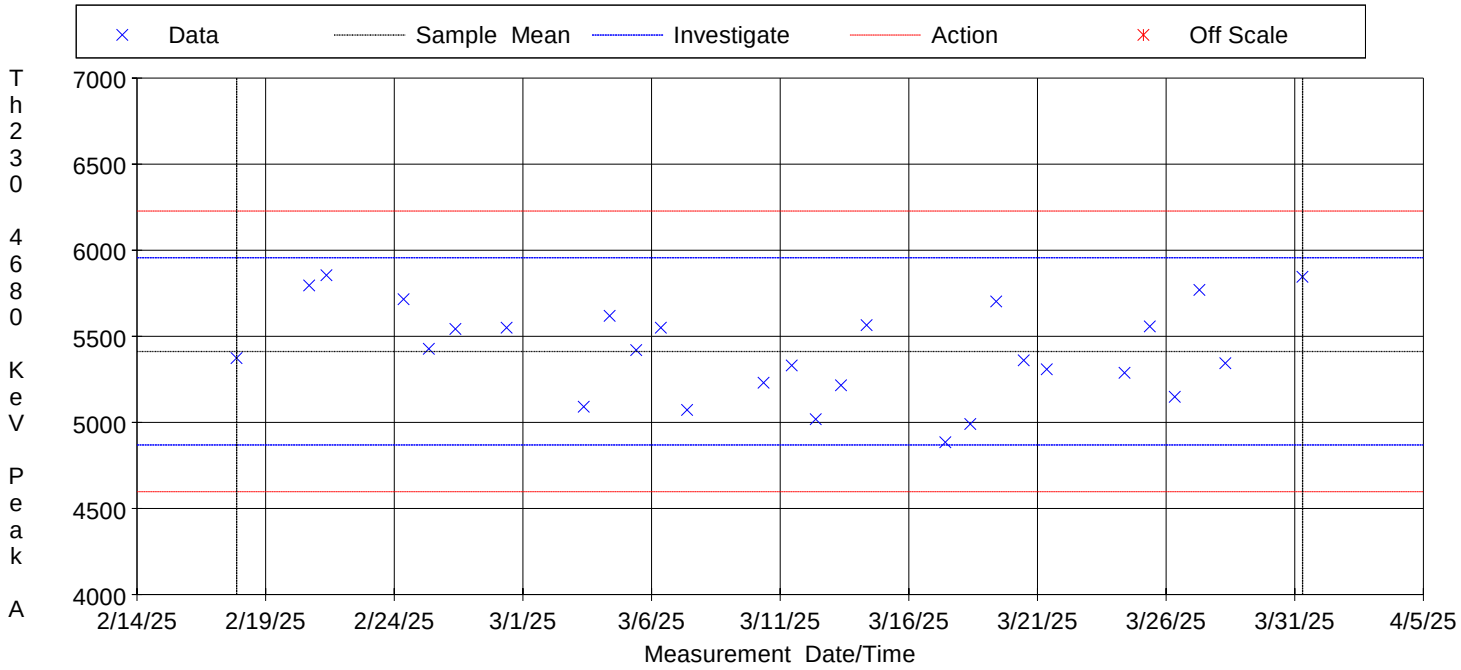
Full Parameter Results Report
4/2/25 7:34:09 AM

QA File: O:\alpha_sp\2025_QAF\4_April\01
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/17/25 8:43:33 PM
Sample End Date: 3/31/25 7:01:54 AM
Sample Mean: 5.41254E+03
Sample Std. Deviation: 2.71533E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/17/25 8:43:33 PM			5.37300E+03				
2/20/25 4:25:16 PM			5.79500E+03				
2/21/25 8:32:27 AM			5.85500E+03				
2/24/25 8:23:21 AM			5.71400E+03				
2/25/25 8:06:55 AM			5.42700E+03				
2/26/25 8:58:12 AM			5.54200E+03				
2/28/25 8:39:03 AM			5.55000E+03				
3/3/25 8:34:41 AM			5.09000E+03				
3/4/25 8:39:31 AM			5.61800E+03				
3/5/25 9:28:43 AM			5.41900E+03				
3/6/25 8:27:27 AM			5.55000E+03				
3/7/25 9:00:00 AM			5.07200E+03				
3/10/25 8:23:08 AM			5.23000E+03				
3/11/25 10:31:57 AM			5.32900E+03				
3/12/25 8:59:29 AM			5.01800E+03				
3/13/25 8:32:23 AM			5.21500E+03				
3/14/25 8:29:49 AM			5.56500E+03				
3/17/25 9:44:19 AM			4.88400E+03				
3/18/25 9:05:39 AM			4.98900E+03				
3/19/25 9:25:50 AM			5.70100E+03				
3/20/25 11:00:45 AM			5.35900E+03				
3/21/25 8:35:46 AM			5.30800E+03				
3/24/25 8:57:19 AM			5.28700E+03				
3/25/25 8:33:19 AM			5.55600E+03				
3/26/25 8:00:27 AM			5.14800E+03				
3/27/25 6:47:46 AM			5.76900E+03				
3/28/25 6:55:39 AM			5.34300E+03				
3/31/25 7:01:54 AM			5.84500E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\01_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/17/25 8:43:33 PM - 3/31/25 7:01:54 AM
Sample Mean +/- Std Dev : 5412.536 +/- 2.72e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 7:41:03 AM

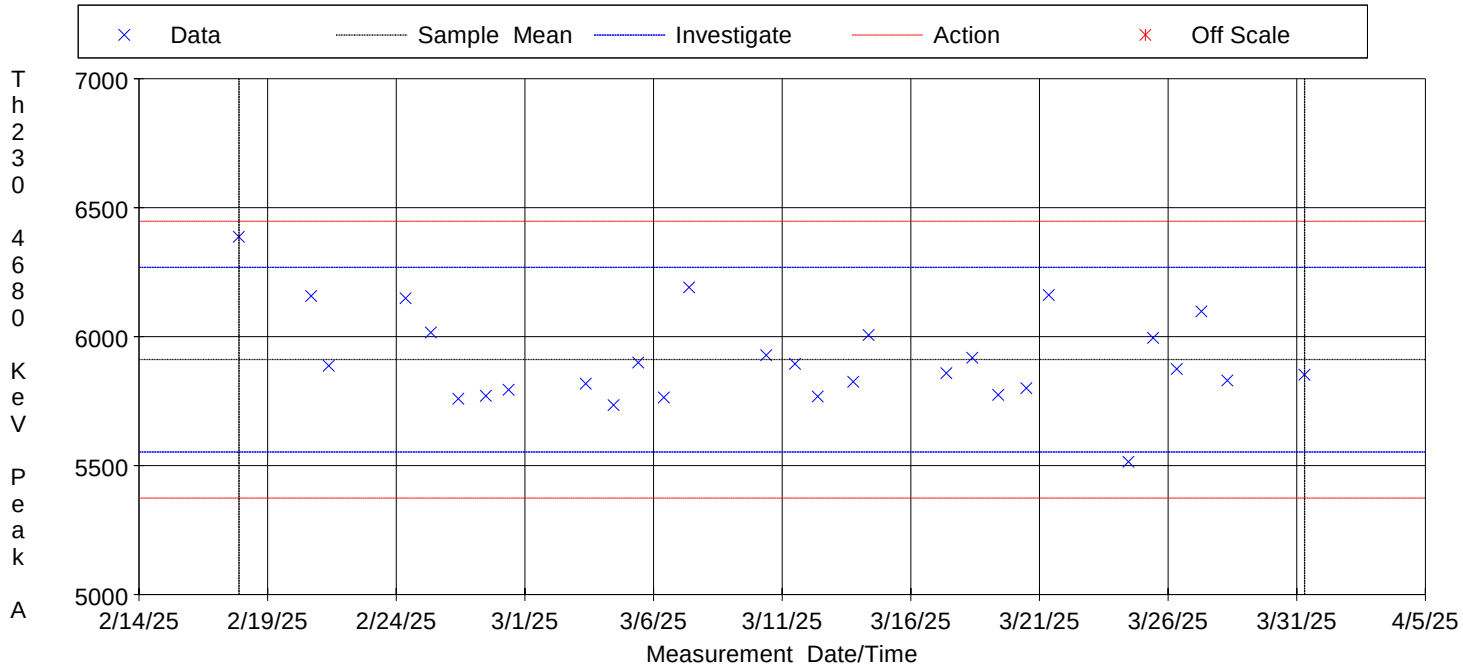
QA File: O:\alpha_sp\2025_QAF\4_April\02
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/17/25 9:02:55 PM
Sample End Date: 3/31/25 7:01:56 AM
Sample Mean: 5.91069E+03
Sample Std. Deviation: 1.78905E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/17/25 9:02:55 PM			6.38600E+03		In		
2/20/25 4:25:19 PM			6.15700E+03				
2/21/25 8:53:36 AM			5.88600E+03				
2/24/25 8:23:28 AM			6.14800E+03				
2/25/25 8:06:56 AM			6.01600E+03				
2/26/25 9:42:38 AM			5.75900E+03				
2/27/25 11:27:04 AM			5.77000E+03				
2/28/25 8:39:04 AM			5.79300E+03				
3/3/25 8:34:45 AM			5.81700E+03				
3/4/25 10:31:45 AM			5.73400E+03				
3/5/25 9:28:44 AM			5.89900E+03				
3/6/25 9:21:31 AM			5.76400E+03				
3/7/25 9:00:04 AM			6.19100E+03				
3/10/25 8:56:10 AM			5.92700E+03				
3/11/25 11:42:05 AM			5.89400E+03				
3/12/25 8:59:31 AM			5.76700E+03				
3/13/25 6:14:40 PM			5.82400E+03				
3/14/25 8:29:53 AM			6.00500E+03				
3/17/25 9:04:49 AM			5.85800E+03				
3/18/25 9:05:41 AM			5.91800E+03				
3/19/25 9:25:51 AM			5.77400E+03				
3/20/25 11:45:26 AM			5.80000E+03				
3/21/25 8:35:47 AM			6.16100E+03				
3/24/25 10:49:05 AM			5.51400E+03		In		
3/25/25 9:51:34 AM			5.99400E+03				
3/26/25 8:00:29 AM			5.87400E+03				
3/27/25 6:47:48 AM			6.09800E+03				
3/28/25 6:55:55 AM			5.83000E+03				
3/31/25 7:01:56 AM			5.85200E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)

BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\02_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/17/25 9:02:55 PM - 3/31/25 7:01:56 AM
Sample Mean +/- Std Dev : 5910.689 +/- 1.79e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

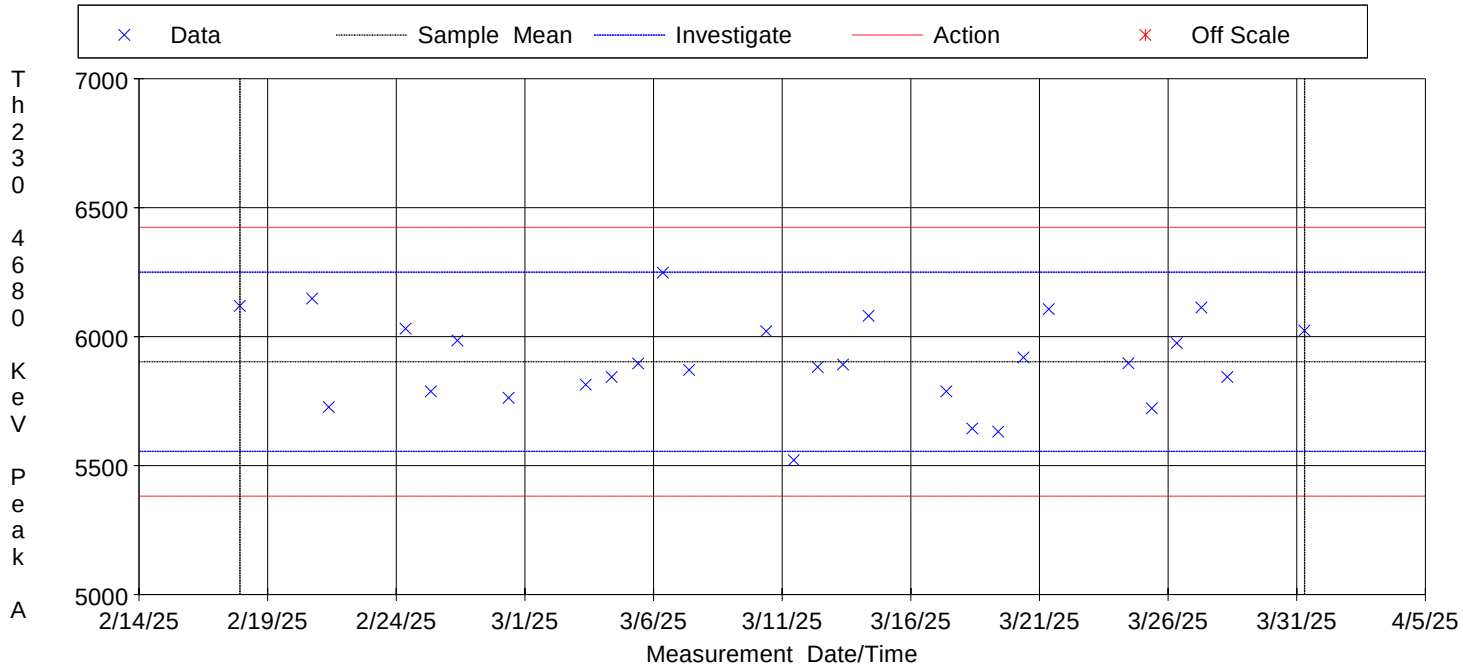
Full Parameter Results Report
4/2/25 7:56:34 AM

QA File: O:\alpha_sp\2025_QAF\4_April\03
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/17/25 9:47:04 PM
Sample End Date: 3/31/25 7:01:57 AM
Sample Mean: 5.90271E+03
Sample Std. Deviation: 1.73590E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/17/25 9:47:04 PM			6.11900E+03				
2/20/25 5:17:48 PM			6.14700E+03				
2/21/25 8:53:40 AM			5.72600E+03				
2/24/25 8:23:31 AM			6.03000E+03				
2/25/25 8:06:58 AM			5.78700E+03				
2/26/25 8:58:15 AM			5.98400E+03				
2/28/25 8:39:05 AM			5.76300E+03				
3/3/25 8:34:46 AM			5.81300E+03				
3/4/25 8:39:33 AM			5.84300E+03				
3/5/25 9:28:45 AM			5.89500E+03				
3/6/25 8:27:29 AM			6.24800E+03				
3/7/25 9:00:05 AM			5.87000E+03				
3/10/25 8:56:11 AM			6.02000E+03				
3/11/25 10:32:00 AM			5.52000E+03		In		
3/12/25 8:59:33 AM			5.88200E+03				
3/13/25 8:32:26 AM			5.89100E+03				
3/14/25 8:29:55 AM			6.08000E+03				
3/17/25 9:04:50 AM			5.78700E+03				
3/18/25 9:05:42 AM			5.64300E+03				
3/19/25 9:25:52 AM			5.63100E+03				
3/20/25 9:00:21 AM			5.91900E+03				
3/21/25 8:35:48 AM			6.10600E+03				
3/24/25 10:49:07 AM			5.89700E+03				
3/25/25 8:33:22 AM			5.72200E+03				
3/26/25 8:00:30 AM			5.97500E+03				
3/27/25 6:47:49 AM			6.11200E+03				
3/28/25 6:56:08 AM			5.84300E+03				
3/31/25 7:01:57 AM			6.02300E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\03_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/17/25 9:47:04 PM - 3/31/25 7:01:57 AM
Sample Mean +/- Std Dev : 5902.714 +/- 1.74e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

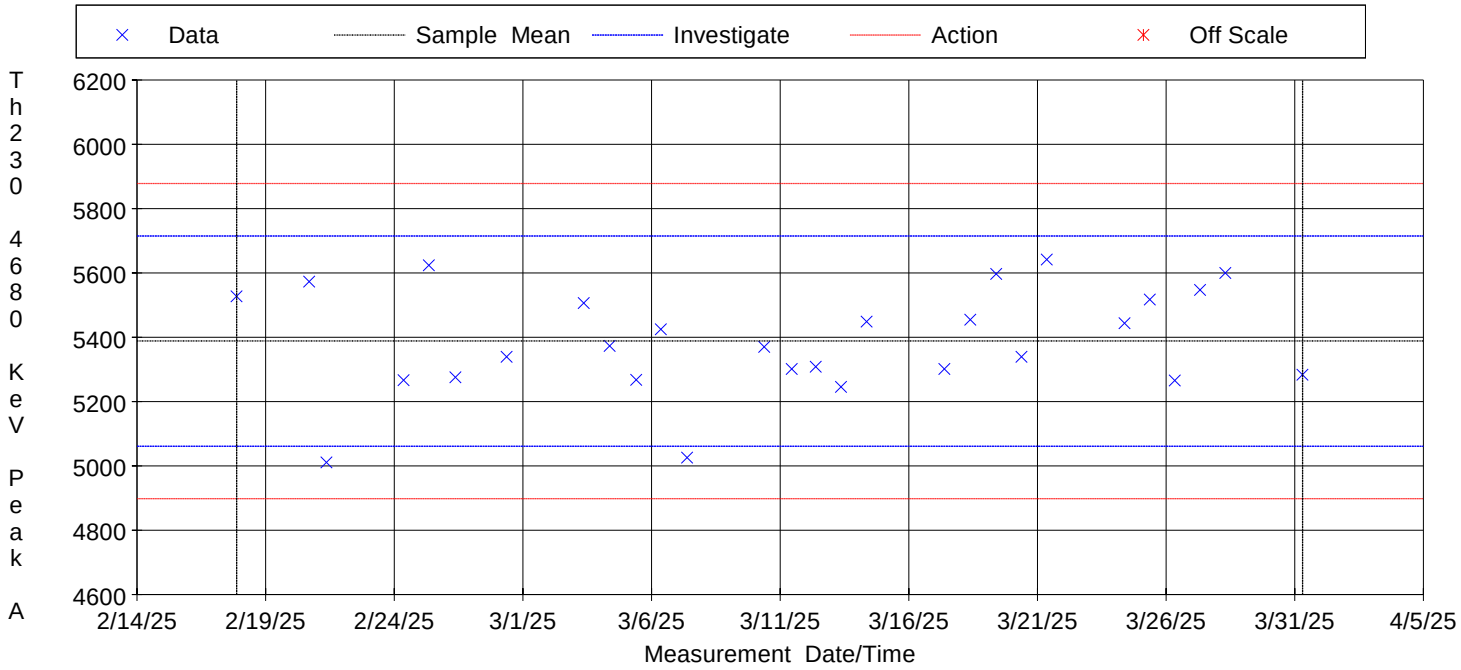
Full Parameter Results Report
4/2/25 7:57:45 AM

QA File: O:\alpha_sp\2025_QAF\4_April\04
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/17/25 8:48:21 PM
Sample End Date: 3/31/25 7:01:58 AM
Sample Mean: 5.38811E+03
Sample Std. Deviation: 1.63296E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/17/25 8:48:21 PM			5.52700E+03				
2/20/25 4:25:23 PM			5.57300E+03				
2/21/25 8:32:31 AM			5.01000E+03		In		
2/24/25 8:23:35 AM			5.26600E+03				
2/25/25 8:06:59 AM			5.62300E+03				
2/26/25 8:58:16 AM			5.27500E+03				
2/28/25 8:39:06 AM			5.33900E+03				
3/3/25 8:34:47 AM			5.50600E+03				
3/4/25 8:39:35 AM			5.37300E+03				
3/5/25 9:28:46 AM			5.26700E+03				
3/6/25 8:27:30 AM			5.42400E+03				
3/7/25 9:00:06 AM			5.02500E+03		In		
3/10/25 8:56:12 AM			5.37000E+03				
3/11/25 10:32:01 AM			5.30100E+03				
3/12/25 8:59:34 AM			5.30800E+03				
3/13/25 8:32:27 AM			5.24500E+03				
3/14/25 8:29:57 AM			5.44800E+03				
3/17/25 9:04:51 AM			5.30100E+03				
3/18/25 9:05:43 AM			5.45400E+03				
3/19/25 9:25:53 AM			5.59700E+03				
3/20/25 9:00:22 AM			5.33900E+03				
3/21/25 8:35:50 AM			5.64100E+03				
3/24/25 8:57:22 AM			5.44300E+03				
3/25/25 8:33:23 AM			5.51700E+03				
3/26/25 8:00:30 AM			5.26500E+03				
3/27/25 7:36:06 AM			5.54700E+03				
3/28/25 6:57:46 AM			5.60000E+03				
3/31/25 7:01:58 AM			5.28300E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\04_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/17/25 8:48:21 PM - 3/31/25 7:01:58 AM
Sample Mean +/- Std Dev : 5388.107 +/- 1.63e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 7:59:21 AM

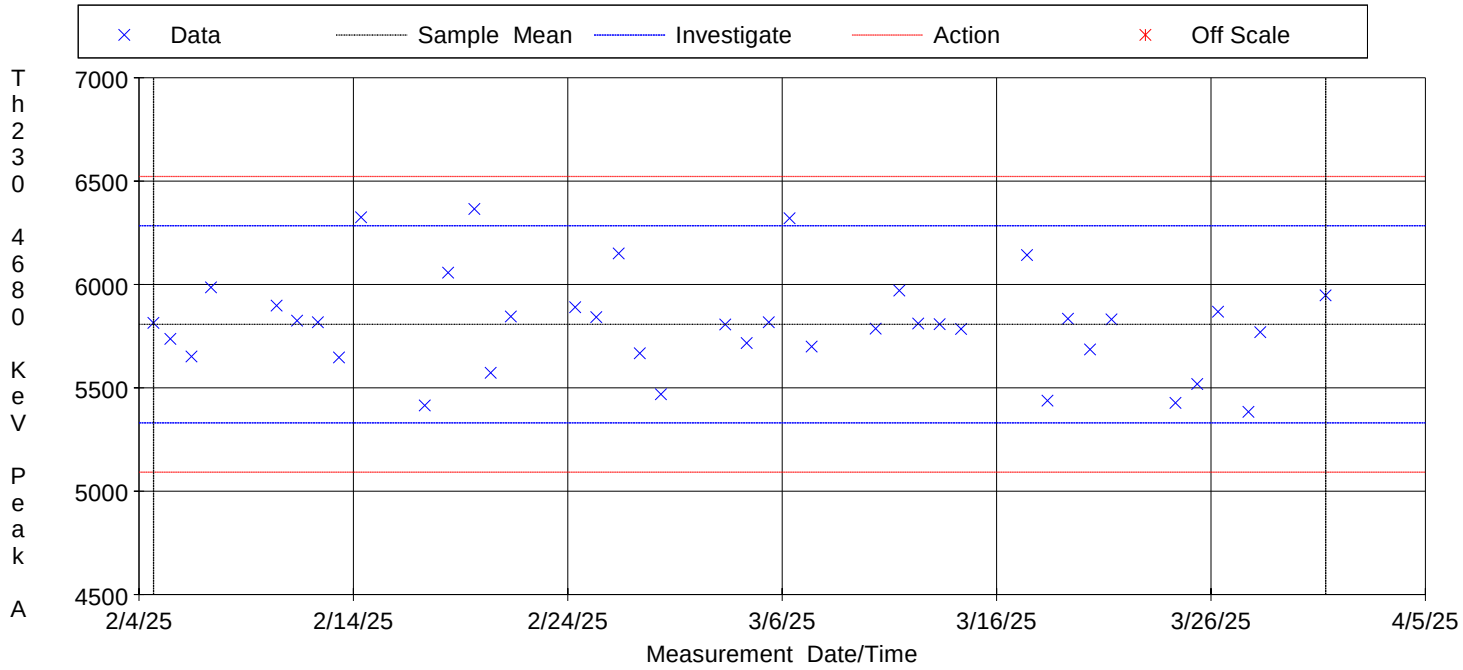
QA File: O:\alpha_sp\2025_QAF\4_April\09
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 3:57:30 PM
Sample End Date: 3/31/25 7:57:17 AM
Sample Mean: 5.80773E+03
Sample Std. Deviation: 2.38334E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 3:57:30 PM			5.81300E+03				
2/5/25 11:00:03 AM			5.73600E+03				
2/6/25 10:29:05 AM			5.65100E+03				
2/7/25 8:34:25 AM			5.98500E+03				
2/10/25 9:59:23 AM			5.89700E+03				
2/11/25 8:41:33 AM			5.82500E+03				
2/12/25 8:10:17 AM			5.81600E+03				
2/13/25 7:47:34 AM			5.64700E+03				
2/14/25 8:25:39 AM			6.32500E+03	In			
2/17/25 7:36:52 AM			5.41400E+03				
2/18/25 9:50:56 AM			6.05700E+03				
2/19/25 3:08:35 PM			6.36400E+03	In			
2/20/25 9:24:30 AM			5.57200E+03				
2/21/25 8:03:10 AM			5.84500E+03				
2/24/25 7:58:50 AM			5.88900E+03				
2/25/25 7:39:30 AM			5.84200E+03				
2/26/25 8:38:12 AM			6.14900E+03				
2/27/25 8:17:19 AM			5.66600E+03				
2/28/25 8:13:39 AM			5.46800E+03				
3/3/25 8:05:42 AM			5.80600E+03				
3/4/25 8:08:57 AM			5.71600E+03				
3/5/25 8:38:19 AM			5.81600E+03				
3/6/25 7:58:11 AM			6.32000E+03	In			
3/7/25 8:43:52 AM			5.69900E+03				
3/10/25 8:23:16 AM			5.78500E+03				
3/11/25 10:59:19 AM			5.97000E+03				
3/12/25 8:09:54 AM			5.81000E+03				
3/13/25 7:57:57 AM			5.80800E+03				
3/14/25 7:59:24 AM			5.78400E+03				
3/17/25 9:44:20 AM			6.14100E+03				
3/18/25 8:41:19 AM			5.43700E+03				
3/19/25 7:48:08 AM			5.83300E+03				
3/20/25 8:33:37 AM			5.68500E+03				
3/21/25 8:15:20 AM			5.83000E+03				
3/24/25 8:04:10 AM			5.42600E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:33:29 AM			5.51800E+03				
3/26/25 7:40:37 AM			5.86700E+03				
3/27/25 5:37:36 PM			5.38300E+03				
3/28/25 6:56:38 AM			5.76800E+03				
3/31/25 7:57:17 AM			5.94600E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\09_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 3:57:30 PM - 3/31/25 7:57:17 AM
Sample Mean +/- Std Dev : 5807.725 +/- 2.38e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 8:55:20 AM

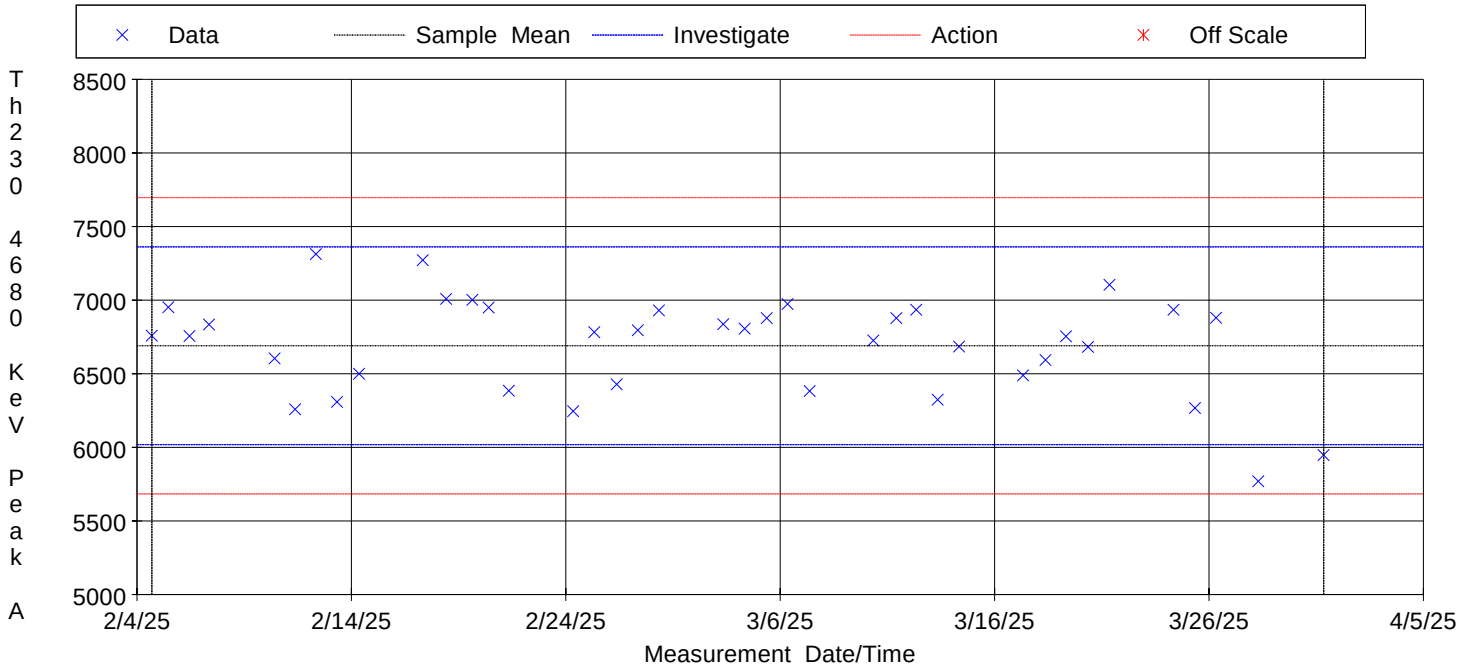
QA File: O:\alpha_sp\2025_QAF\4_April\10
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 4:11:19 PM
Sample End Date: 3/31/25 7:57:17 AM
Sample Mean: 6.68967E+03
Sample Std. Deviation: 3.35648E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 4:11:19 PM			6.75800E+03				
2/5/25 11:00:06 AM			6.95100E+03				
2/6/25 10:28:35 AM			6.75600E+03				
2/7/25 8:34:26 AM			6.83400E+03				
2/10/25 9:59:27 AM			6.60300E+03				
2/11/25 8:41:34 AM			6.25700E+03				
2/12/25 8:10:18 AM			7.31200E+03				
2/13/25 7:47:35 AM			6.30800E+03				
2/14/25 8:25:40 AM			6.50000E+03				
2/17/25 7:36:53 AM			7.27100E+03				
2/18/25 9:50:58 AM			7.00700E+03				
2/19/25 3:08:37 PM			7.00200E+03				
2/20/25 9:24:33 AM			6.94800E+03				
2/21/25 8:03:11 AM			6.38400E+03				
2/24/25 7:58:52 AM			6.24500E+03				
2/25/25 7:39:31 AM			6.78100E+03				
2/26/25 8:38:14 AM			6.42700E+03				
2/27/25 8:17:21 AM			6.79500E+03				
2/28/25 8:13:41 AM			6.92900E+03				
3/3/25 8:05:44 AM			6.83500E+03				
3/4/25 8:08:58 AM			6.80600E+03				
3/5/25 8:38:20 AM			6.87700E+03				
3/6/25 7:58:12 AM			6.97300E+03				
3/7/25 8:43:55 AM			6.38100E+03				
3/10/25 7:56:46 AM			6.72600E+03				
3/11/25 9:52:55 AM			6.87800E+03				
3/12/25 8:09:56 AM			6.93400E+03				
3/13/25 7:57:58 AM			6.32200E+03				
3/14/25 7:59:25 AM			6.68400E+03				
3/17/25 7:45:43 AM			6.48900E+03				
3/18/25 8:41:20 AM			6.59300E+03				
3/19/25 7:48:09 AM			6.75300E+03				
3/20/25 8:33:38 AM			6.68200E+03				
3/21/25 8:15:21 AM			7.10400E+03				
3/24/25 8:04:11 AM			6.93300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:48 AM			6.26600E+03				
3/26/25 7:40:39 AM			6.87900E+03				
3/28/25 6:56:38 AM			5.76800E+03	In			
3/31/25 7:57:17 AM			5.94600E+03	In			

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\10_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 4:11:19 PM - 3/31/25 7:57:17 AM
Sample Mean +/- Std Dev : 6689.667 +/- 3.36e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 8:56:26 AM

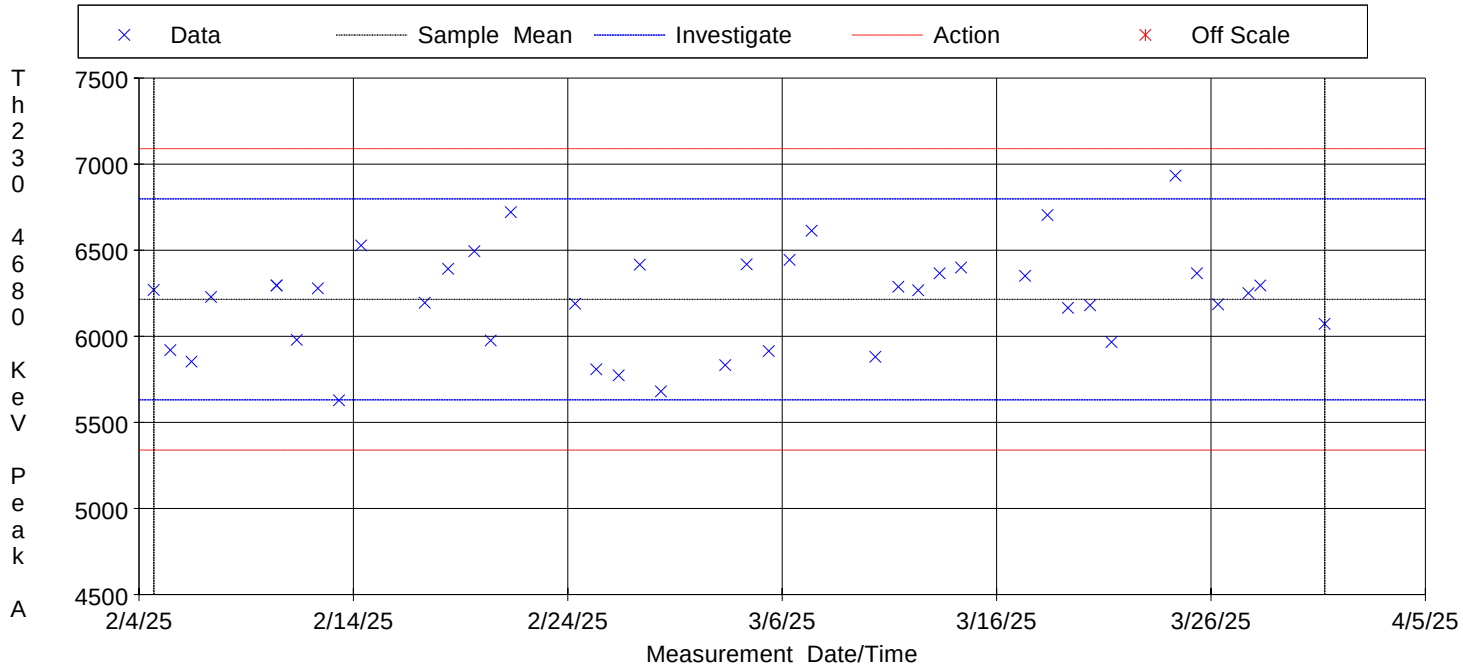
QA File: O:\alpha_sp\2025_QAF\4_April\11
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 4:12:46 PM
Sample End Date: 3/31/25 7:02:03 AM
Sample Mean: 6.21422E+03
Sample Std. Deviation: 2.91794E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 4:12:46 PM			6.26900E+03				
2/5/25 11:00:10 AM			5.91900E+03				
2/6/25 10:28:40 AM			5.85300E+03				
2/7/25 8:34:28 AM			6.22700E+03				
2/10/25 9:59:30 AM			6.29400E+03				
2/10/25 9:59:30 AM			6.29400E+03				
2/11/25 8:18:46 AM			5.97900E+03				
2/12/25 8:10:20 AM			6.27700E+03				
2/13/25 7:47:38 AM			5.62700E+03		In		
2/14/25 8:25:41 AM			6.52700E+03				
2/17/25 7:36:54 AM			6.19500E+03				
2/18/25 9:51:00 AM			6.39100E+03				
2/19/25 3:08:38 PM			6.49300E+03				
2/20/25 9:24:34 AM			5.97400E+03				
2/21/25 8:03:12 AM			6.72100E+03				
2/24/25 7:58:53 AM			6.18900E+03				
2/25/25 7:39:32 AM			5.80700E+03				
2/26/25 8:38:15 AM			5.77200E+03				
2/27/25 8:17:22 AM			6.41500E+03				
2/28/25 8:13:42 AM			5.67900E+03				
3/3/25 8:05:45 AM			5.83200E+03				
3/4/25 8:09:00 AM			6.41800E+03				
3/5/25 8:38:22 AM			5.91400E+03				
3/6/25 7:58:14 AM			6.44400E+03				
3/7/25 8:43:56 AM			6.61300E+03				
3/10/25 7:56:47 AM			5.88000E+03				
3/11/25 9:52:56 AM			6.28800E+03				
3/12/25 8:09:57 AM			6.26700E+03				
3/13/25 7:57:59 AM			6.36500E+03				
3/14/25 7:59:27 AM			6.39900E+03				
3/17/25 7:45:44 AM			6.35000E+03				
3/18/25 8:41:21 AM			6.70300E+03				
3/19/25 7:48:10 AM			6.16400E+03				
3/20/25 8:33:39 AM			6.18000E+03				
3/21/25 8:15:22 AM			5.96500E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 8:04:11 AM			6.93300E+03		In		
3/25/25 8:11:49 AM			6.36500E+03				
3/26/25 7:40:40 AM			6.18500E+03				
3/27/25 5:38:42 PM			6.25000E+03				
3/28/25 6:57:07 AM			6.29400E+03				
3/31/25 7:02:03 AM			6.07200E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\11_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 4:12:46 PM - 3/31/25 7:02:03 AM
Sample Mean +/- Std Dev : 6214.220 +/- 2.92e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 8:57:22 AM

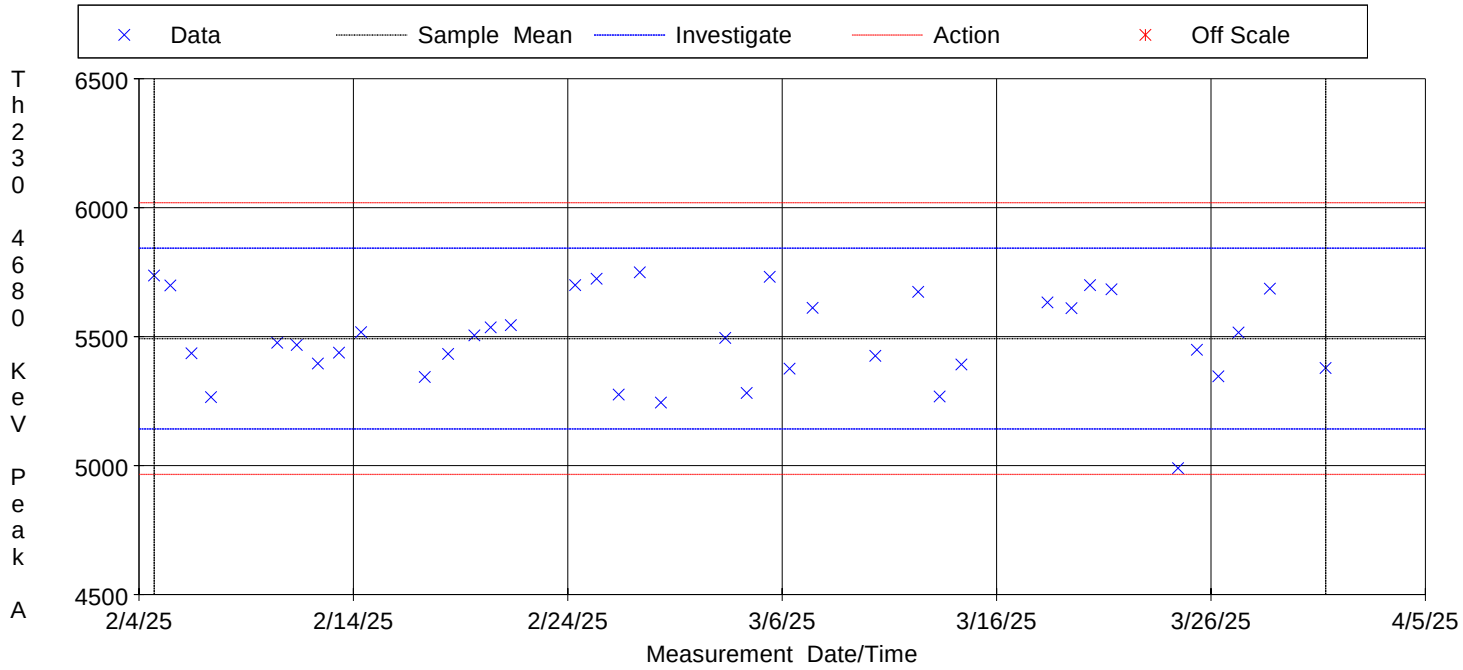
QA File: O:\alpha_sp\2025_QAF\4_April\13
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 4:48:38 PM
Sample End Date: 3/31/25 7:57:20 AM
Sample Mean: 5.49247E+03
Sample Std. Deviation: 1.75494E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 4:48:38 PM			5.73600E+03				
2/5/25 11:00:12 AM			5.69800E+03				
2/6/25 10:28:45 AM			5.43500E+03				
2/7/25 8:34:29 AM			5.26500E+03				
2/10/25 10:36:00 AM			5.47600E+03				
2/11/25 8:18:47 AM			5.46700E+03				
2/12/25 8:10:21 AM			5.39500E+03				
2/13/25 7:47:40 AM			5.43700E+03				
2/14/25 8:25:42 AM			5.51700E+03				
2/17/25 7:36:56 AM			5.34300E+03				
2/18/25 9:51:01 AM			5.43200E+03				
2/19/25 3:08:40 PM			5.50400E+03				
2/20/25 9:24:35 AM			5.53500E+03				
2/21/25 8:03:13 AM			5.54400E+03				
2/24/25 7:58:54 AM			5.69900E+03				
2/25/25 8:07:02 AM			5.72400E+03				
2/26/25 8:38:16 AM			5.27500E+03				
2/27/25 8:17:23 AM			5.74900E+03				
2/28/25 8:13:43 AM			5.24400E+03				
3/3/25 8:05:46 AM			5.49500E+03				
3/4/25 8:09:01 AM			5.28100E+03				
3/5/25 9:46:52 AM			5.73200E+03				
3/6/25 7:58:15 AM			5.37500E+03				
3/7/25 9:40:30 AM			5.61100E+03				
3/10/25 7:56:48 AM			5.42500E+03				
3/12/25 8:09:58 AM			5.67300E+03				
3/13/25 7:58:00 AM			5.26700E+03				
3/14/25 8:30:02 AM			5.39200E+03				
3/18/25 8:41:22 AM			5.63200E+03				
3/19/25 11:41:43 AM			5.61000E+03				
3/20/25 8:33:40 AM			5.69900E+03				
3/21/25 8:15:23 AM			5.68300E+03				
3/24/25 10:48:53 AM			4.99000E+03		In		
3/25/25 8:11:50 AM			5.44900E+03				
3/26/25 8:00:26 AM			5.34600E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/27/25 6:47:55 AM			5.51500E+03				
3/28/25 5:44:08 PM			5.68600E+03				
3/31/25 7:57:20 AM			5.37800E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\13_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 4:48:38 PM - 3/31/25 7:57:20 AM
Sample Mean +/- Std Dev : 5492.474 +/- 1.75e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 8:58:15 AM

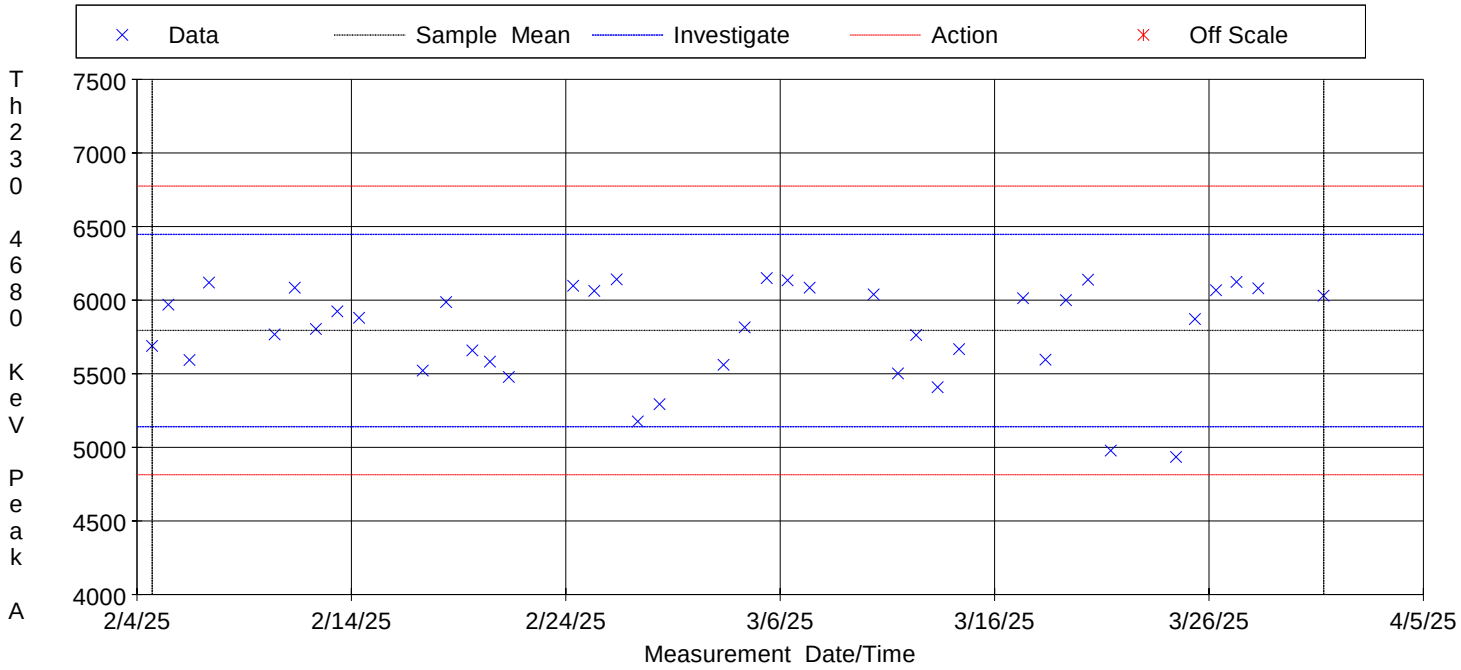
QA File: O:\alpha_sp\2025_QAF\4_April\14
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 4:48:40 PM
Sample End Date: 3/31/25 7:57:22 AM
Sample Mean: 5.79385E+03
Sample Std. Deviation: 3.26817E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 4:48:40 PM			5.68800E+03				
2/5/25 11:00:15 AM			5.96900E+03				
2/6/25 10:28:52 AM			5.59300E+03				
2/7/25 8:34:30 AM			6.11900E+03				
2/10/25 9:59:38 AM			5.76600E+03				
2/11/25 8:18:48 AM			6.08400E+03				
2/12/25 8:10:22 AM			5.80400E+03				
2/13/25 8:11:48 AM			5.92300E+03				
2/14/25 8:25:44 AM			5.87900E+03				
2/17/25 7:36:57 AM			5.52100E+03				
2/18/25 9:51:03 AM			5.98600E+03				
2/19/25 3:08:41 PM			5.65700E+03				
2/20/25 10:54:41 AM			5.58100E+03				
2/21/25 8:03:15 AM			5.47700E+03				
2/24/25 7:58:55 AM			6.09700E+03				
2/25/25 7:39:34 AM			6.06300E+03				
2/26/25 8:38:18 AM			6.14100E+03				
2/27/25 8:17:34 AM			5.17400E+03				
2/28/25 8:39:08 AM			5.29300E+03				
3/3/25 8:34:50 AM			5.55900E+03				
3/4/25 8:09:02 AM			5.81400E+03				
3/5/25 8:38:25 AM			6.14900E+03				
3/6/25 7:58:16 AM			6.13300E+03				
3/7/25 8:44:00 AM			6.08400E+03				
3/10/25 8:23:18 AM			6.03800E+03				
3/11/25 11:42:00 AM			5.50200E+03				
3/12/25 8:09:59 AM			5.76100E+03				
3/13/25 7:58:01 AM			5.40700E+03				
3/14/25 7:59:29 AM			5.66700E+03				
3/17/25 7:45:46 AM			6.01100E+03				
3/18/25 8:41:24 AM			5.59500E+03				
3/19/25 7:48:13 AM			6.00000E+03				
3/20/25 8:33:41 AM			6.13800E+03				
3/21/25 9:47:29 AM			4.97800E+03		In		
3/24/25 10:48:59 AM			4.93300E+03		In		

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:51 AM			5.87100E+03				
3/26/25 7:40:42 AM			6.06700E+03				
3/27/25 6:47:56 AM			6.12300E+03				
3/28/25 6:58:55 AM			6.08000E+03				
3/31/25 7:57:22 AM			6.02900E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\14_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 4:48:40 PM - 3/31/25 7:57:22 AM
Sample Mean +/- Std Dev : 5793.850 +/- 3.27e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:33:13 AM

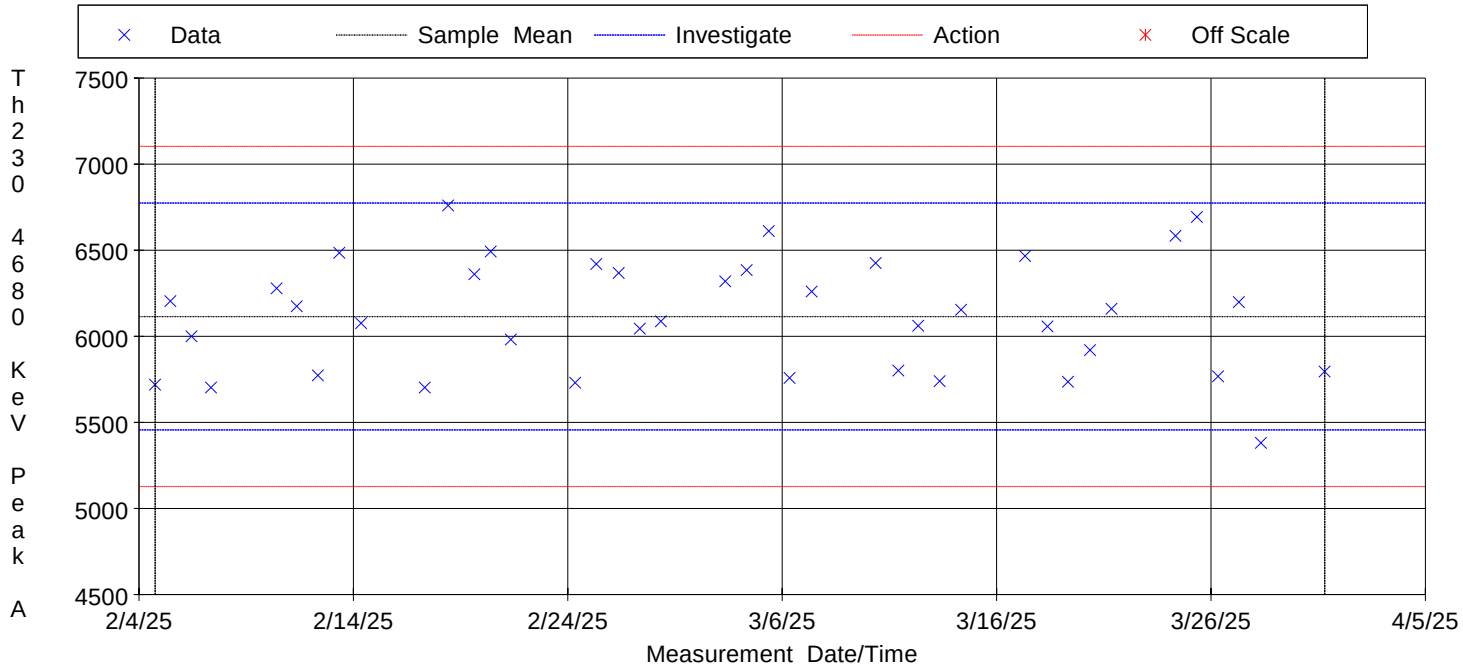
QA File: O:\alpha_sp\2025_QAF\4_April\19
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:35:01 PM
Sample End Date: 3/31/25 7:02:09 AM
Sample Mean: 6.11513E+03
Sample Std. Deviation: 3.29575E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:35:01 PM			5.71900E+03				
2/5/25 11:00:18 AM			6.20300E+03				
2/6/25 10:27:10 AM			6.00000E+03				
2/7/25 8:34:35 AM			5.70100E+03				
2/10/25 9:59:44 AM			6.27700E+03				
2/11/25 8:18:36 AM			6.17300E+03				
2/12/25 8:10:10 AM			5.77300E+03				
2/13/25 8:11:43 AM			6.48500E+03				
2/14/25 8:25:47 AM			6.07500E+03				
2/17/25 7:37:00 AM			5.70100E+03				
2/18/25 9:51:06 AM			6.76000E+03				
2/19/25 3:08:45 PM			6.36000E+03				
2/20/25 9:24:39 AM			6.49200E+03				
2/21/25 8:03:00 AM			5.98000E+03				
2/24/25 7:58:58 AM			5.72900E+03				
2/25/25 7:39:37 AM			6.42000E+03				
2/26/25 8:38:20 AM			6.36800E+03				
2/27/25 8:17:27 AM			6.04400E+03				
2/28/25 8:13:47 AM			6.08700E+03				
3/3/25 8:05:51 AM			6.31900E+03				
3/4/25 8:09:05 AM			6.38400E+03				
3/5/25 8:38:10 AM			6.61000E+03				
3/6/25 7:58:19 AM			5.75800E+03				
3/7/25 8:43:42 AM			6.25900E+03				
3/10/25 8:23:22 AM			6.42400E+03				
3/11/25 9:53:01 AM			5.80100E+03				
3/12/25 8:09:48 AM			6.06000E+03				
3/13/25 7:58:03 AM			5.73800E+03				
3/14/25 7:59:16 AM			6.15400E+03				
3/17/25 7:45:36 AM			6.46600E+03				
3/18/25 8:41:11 AM			6.05600E+03				
3/19/25 7:48:16 AM			5.73500E+03				
3/20/25 8:33:30 AM			5.91900E+03				
3/21/25 8:15:27 AM			6.15900E+03				
3/24/25 8:04:18 AM			6.58300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:40 AM			6.69300E+03				
3/26/25 7:40:45 AM			5.76700E+03				
3/27/25 6:49:34 AM			6.19800E+03				
3/28/25 7:34:26 AM			5.38100E+03		In		
3/31/25 7:02:09 AM			5.79400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\19_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:35:01 PM - 3/31/25 7:02:09 AM
Sample Mean +/- Std Dev : 6115.125 +/- 3.30e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:34:27 AM

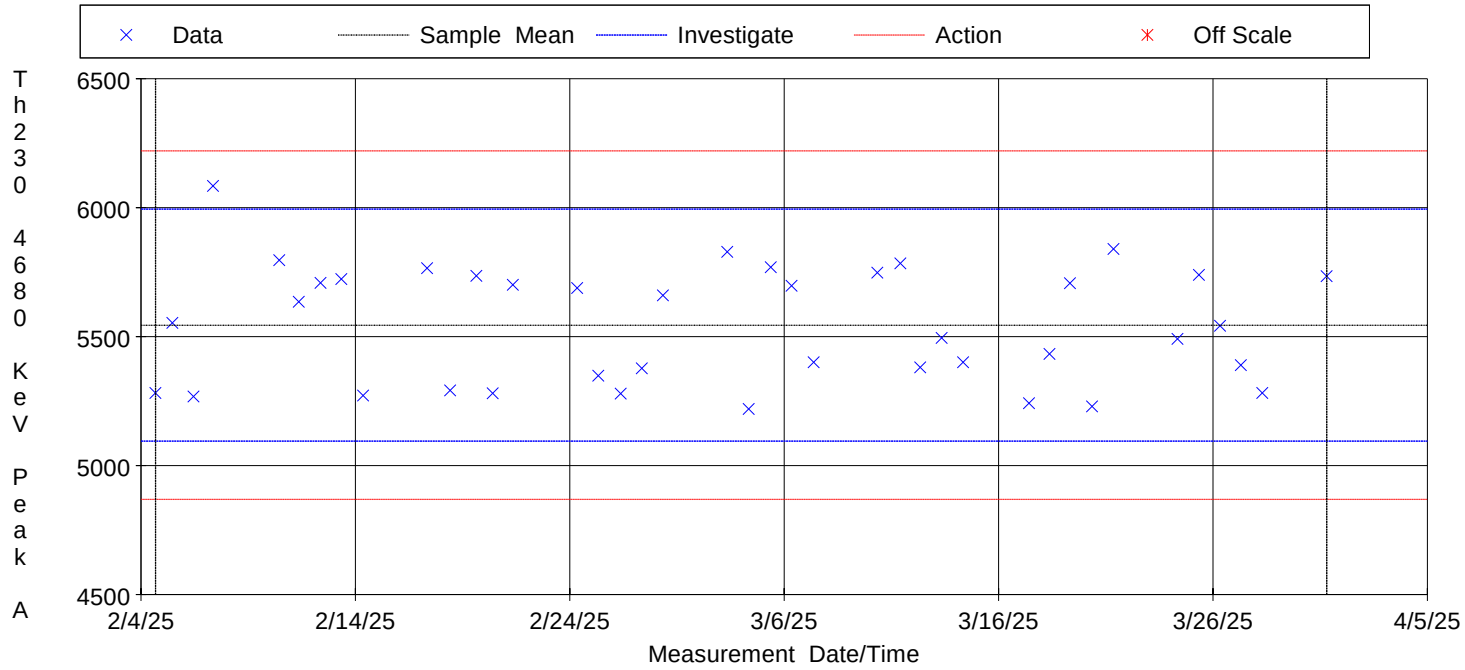
QA File: O:\alpha_sp\2025_QAF\4_April\20
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 3:55:08 PM
Sample End Date: 3/31/25 7:02:10 AM
Sample Mean: 5.54452E+03
Sample Std. Deviation: 2.25052E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 3:55:08 PM			5.28100E+03				
2/5/25 11:00:20 AM			5.55300E+03				
2/6/25 10:27:10 AM			5.26700E+03				
2/7/25 8:34:42 AM			6.08400E+03		In		
2/10/25 10:36:03 AM			5.79600E+03				
2/11/25 8:18:37 AM			5.63400E+03				
2/12/25 8:43:40 AM			5.70800E+03				
2/13/25 8:11:45 AM			5.72300E+03				
2/14/25 8:25:48 AM			5.27100E+03				
2/17/25 8:08:20 AM			5.76500E+03				
2/18/25 9:51:09 AM			5.29100E+03				
2/19/25 3:08:47 PM			5.73500E+03				
2/20/25 9:24:40 AM			5.28000E+03				
2/21/25 8:03:02 AM			5.70000E+03				
2/24/25 7:59:00 AM			5.68800E+03				
2/25/25 7:39:38 AM			5.34800E+03				
2/26/25 8:38:21 AM			5.27800E+03				
2/27/25 8:17:30 AM			5.37600E+03				
2/28/25 8:13:48 AM			5.66000E+03				
3/3/25 8:05:52 AM			5.82800E+03				
3/4/25 8:09:07 AM			5.21900E+03				
3/5/25 8:38:11 AM			5.76900E+03				
3/6/25 7:58:20 AM			5.69700E+03				
3/7/25 8:43:43 AM			5.40000E+03				
3/10/25 7:56:30 AM			5.74800E+03				
3/11/25 9:53:02 AM			5.78400E+03				
3/12/25 8:09:49 AM			5.38000E+03				
3/13/25 7:58:04 AM			5.49400E+03				
3/14/25 7:59:18 AM			5.40000E+03				
3/17/25 9:44:23 AM			5.24100E+03				
3/18/25 8:41:12 AM			5.43200E+03				
3/19/25 7:48:18 AM			5.70700E+03				
3/20/25 8:33:31 AM			5.22900E+03				
3/21/25 8:15:28 AM			5.83900E+03				
3/24/25 8:04:18 AM			5.49100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:42 AM			5.73900E+03				
3/26/25 7:40:46 AM			5.54200E+03				
3/27/25 6:49:38 AM			5.38900E+03				
3/28/25 7:00:59 AM			5.28100E+03				
3/31/25 7:02:10 AM			5.73400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\20_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 3:55:08 PM - 3/31/25 7:02:10 AM
Sample Mean +/- Std Dev : 5544.525 +/- 2.25e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:36:32 AM

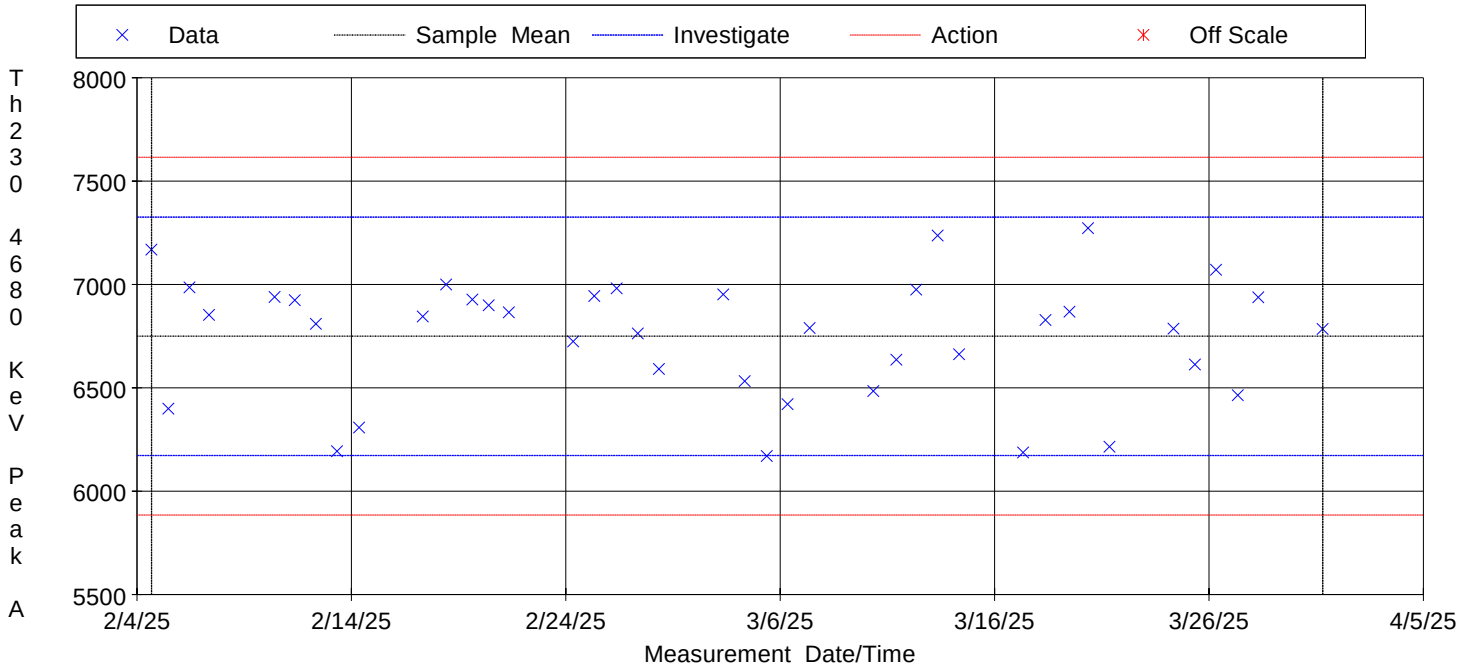
QA File: O:\alpha_sp\2025_QAF\4_April\21
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 3:57:45 PM
Sample End Date: 3/31/25 7:02:11 AM
Sample Mean: 6.74960E+03
Sample Std. Deviation: 2.88430E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 3:57:45 PM			7.16800E+03				
2/5/25 11:00:23 AM			6.39800E+03				
2/6/25 10:27:12 AM			6.98600E+03				
2/7/25 8:34:43 AM			6.85200E+03				
2/10/25 9:59:52 AM			6.93900E+03				
2/11/25 8:18:38 AM			6.92400E+03				
2/12/25 8:10:12 AM			6.80900E+03				
2/13/25 7:47:47 AM			6.19300E+03				
2/14/25 8:25:49 AM			6.30800E+03				
2/17/25 7:37:02 AM			6.84400E+03				
2/18/25 9:51:10 AM			6.99900E+03				
2/19/25 3:17:16 PM			6.92600E+03				
2/20/25 9:24:41 AM			6.89900E+03				
2/21/25 8:03:03 AM			6.86400E+03				
2/24/25 7:59:02 AM			6.72400E+03				
2/25/25 7:39:39 AM			6.94300E+03				
2/26/25 8:38:22 AM			6.98100E+03				
2/27/25 8:17:31 AM			6.76200E+03				
2/28/25 8:13:49 AM			6.59100E+03				
3/3/25 8:05:53 AM			6.95200E+03				
3/4/25 8:09:08 AM			6.53200E+03				
3/5/25 8:38:12 AM			6.17000E+03		In		
3/6/25 7:58:22 AM			6.42000E+03				
3/7/25 8:43:44 AM			6.78900E+03				
3/10/25 7:56:33 AM			6.48300E+03				
3/11/25 9:53:03 AM			6.63600E+03				
3/12/25 8:09:50 AM			6.97400E+03				
3/13/25 7:58:05 AM			7.23600E+03				
3/14/25 7:59:19 AM			6.66200E+03				
3/17/25 7:45:38 AM			6.18600E+03				
3/18/25 8:41:13 AM			6.82700E+03				
3/19/25 11:41:48 AM			6.86700E+03				
3/20/25 8:33:32 AM			7.27200E+03				
3/21/25 8:15:29 AM			6.21500E+03				
3/24/25 8:04:19 AM			6.78500E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:43 AM			6.61200E+03				
3/26/25 7:40:47 AM			7.07000E+03				
3/27/25 8:10:41 AM			6.46400E+03				
3/28/25 7:00:14 AM			6.93800E+03				
3/31/25 7:02:11 AM			6.78400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\21_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 3:57:45 PM - 3/31/25 7:02:11 AM
Sample Mean +/- Std Dev : 6749.600 +/- 2.88e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:38:17 AM

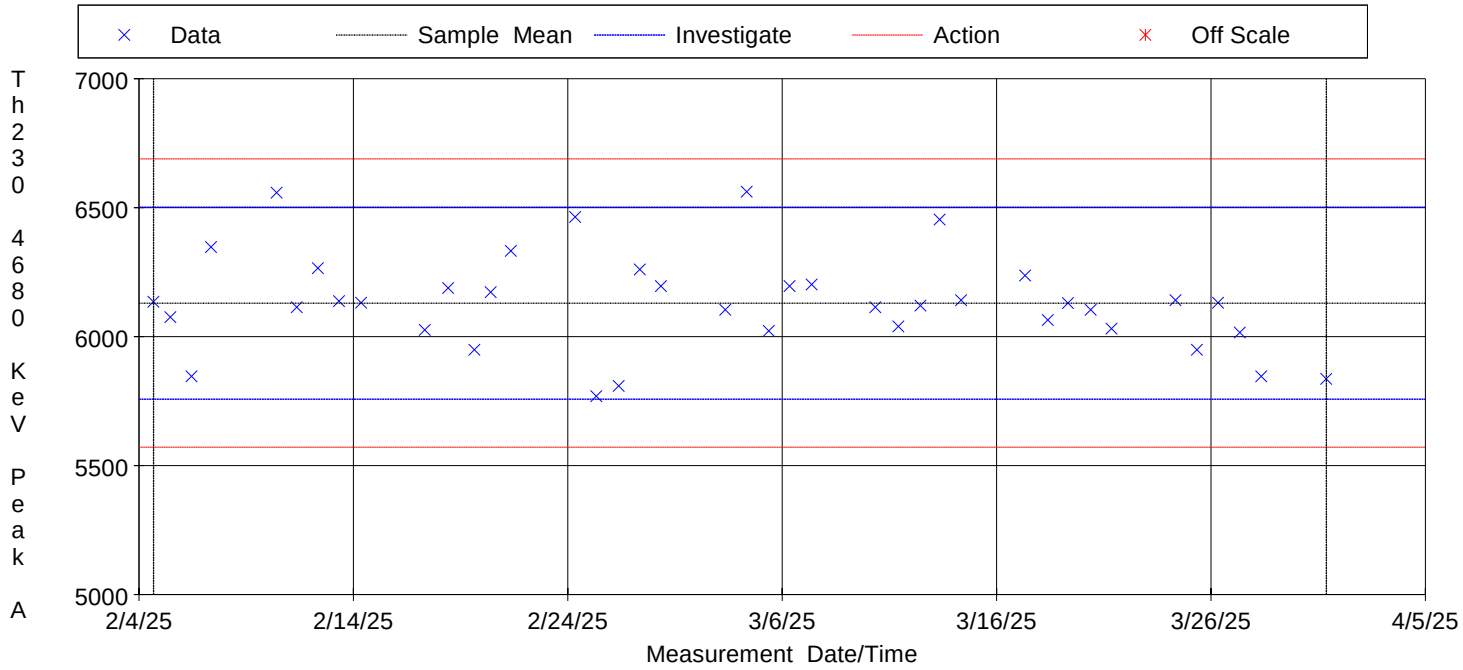
QA File: O:\alpha_sp\2025_QAF\4_April\23
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 3:57:47 PM
Sample End Date: 3/31/25 8:41:27 AM
Sample Mean: 6.13000E+03
Sample Std. Deviation: 1.86213E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 3:57:47 PM			6.13400E+03				
2/5/25 11:00:25 AM			6.07500E+03				
2/6/25 10:27:13 AM			5.84600E+03				
2/7/25 8:34:44 AM			6.34700E+03				
2/10/25 9:59:56 AM			6.55800E+03		In		
2/11/25 8:18:40 AM			6.11300E+03				
2/12/25 8:10:14 AM			6.26500E+03				
2/13/25 7:47:48 AM			6.13700E+03				
2/14/25 8:25:50 AM			6.13100E+03				
2/17/25 7:37:03 AM			6.02500E+03				
2/18/25 9:51:12 AM			6.18800E+03				
2/19/25 3:08:50 PM			5.94800E+03				
2/20/25 9:24:42 AM			6.17200E+03				
2/21/25 8:03:04 AM			6.33200E+03				
2/24/25 7:59:03 AM			6.46400E+03				
2/25/25 7:39:40 AM			5.76800E+03				
2/26/25 8:38:23 AM			5.80800E+03				
2/27/25 8:17:32 AM			6.26000E+03				
2/28/25 8:13:50 AM			6.19600E+03				
3/3/25 8:05:54 AM			6.10300E+03				
3/4/25 8:09:09 AM			6.56200E+03		In		
3/5/25 8:38:13 AM			6.02200E+03				
3/6/25 7:58:23 AM			6.19500E+03				
3/7/25 8:43:46 AM			6.20200E+03				
3/10/25 7:56:34 AM			6.11400E+03				
3/11/25 9:53:04 AM			6.03900E+03				
3/12/25 10:44:09 AM			6.12000E+03				
3/13/25 7:58:06 AM			6.45400E+03				
3/14/25 7:59:20 AM			6.14100E+03				
3/17/25 7:45:39 AM			6.23600E+03				
3/18/25 9:05:46 AM			6.06400E+03				
3/19/25 7:48:20 AM			6.13000E+03				
3/20/25 9:00:17 AM			6.10300E+03				
3/21/25 8:15:30 AM			6.03100E+03				
3/24/25 8:04:20 AM			6.14100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:44 AM			5.94800E+03				
3/26/25 7:40:48 AM			6.13100E+03				
3/27/25 8:10:42 AM			6.01600E+03				
3/28/25 7:54:39 AM			5.84500E+03				
3/31/25 8:41:27 AM			5.83600E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\23_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 3:57:47 PM - 3/31/25 8:41:27 AM
Sample Mean +/- Std Dev : 6130.000 +/- 1.86e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:39:26 AM

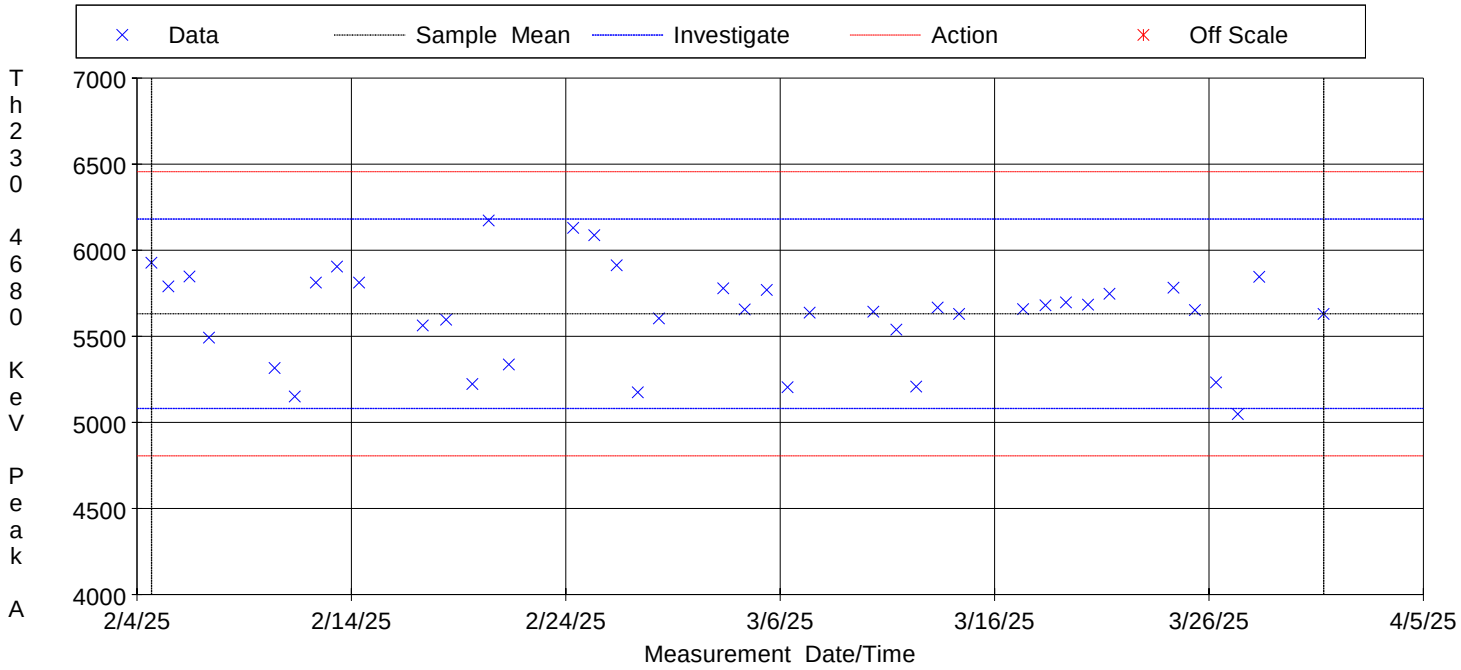
QA File: O:\alpha_sp\2025_QAF\4_April\24
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 3:57:49 PM
Sample End Date: 3/31/25 8:03:16 AM
Sample Mean: 5.63048E+03
Sample Std. Deviation: 2.75078E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 3:57:49 PM			5.92700E+03				
2/5/25 11:00:27 AM			5.78900E+03				
2/6/25 10:27:14 AM			5.84700E+03				
2/7/25 8:34:45 AM			5.49100E+03				
2/10/25 10:00:01 AM			5.31500E+03				
2/11/25 8:18:41 AM			5.15000E+03				
2/12/25 8:10:15 AM			5.81200E+03				
2/13/25 7:47:51 AM			5.90400E+03				
2/14/25 8:25:51 AM			5.81200E+03				
2/17/25 7:37:04 AM			5.56300E+03				
2/18/25 9:51:14 AM			5.59600E+03				
2/19/25 3:08:51 PM			5.22300E+03				
2/20/25 9:24:42 AM			6.17200E+03				
2/21/25 8:03:04 AM			5.33500E+03				
2/24/25 7:59:04 AM			6.12900E+03				
2/25/25 7:39:41 AM			6.08600E+03				
2/26/25 8:38:25 AM			5.91200E+03				
2/27/25 8:17:34 AM			5.17400E+03				
2/28/25 8:13:51 AM			5.60400E+03				
3/3/25 8:05:56 AM			5.77700E+03				
3/4/25 8:09:10 AM			5.65600E+03				
3/5/25 8:38:16 AM			5.76900E+03				
3/6/25 7:58:24 AM			5.20400E+03				
3/7/25 8:43:48 AM			5.63600E+03				
3/10/25 7:56:35 AM			5.64200E+03				
3/11/25 9:53:06 AM			5.53900E+03				
3/12/25 8:09:52 AM			5.20800E+03				
3/13/25 7:58:08 AM			5.66700E+03				
3/14/25 7:59:21 AM			5.63000E+03				
3/17/25 7:45:40 AM			5.65700E+03				
3/18/25 8:41:15 AM			5.67900E+03				
3/19/25 7:48:22 AM			5.69700E+03				
3/20/25 8:33:34 AM			5.68400E+03				
3/21/25 8:15:31 AM			5.74600E+03				
3/24/25 8:04:22 AM			5.78200E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:45 AM			5.65100E+03				
3/26/25 7:40:49 AM			5.23200E+03				
3/27/25 8:10:44 AM			5.04700E+03	In			
3/28/25 7:54:39 AM			5.84500E+03				
3/31/25 8:03:16 AM			5.63000E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\24_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 3:57:49 PM - 3/31/25 8:03:16 AM
Sample Mean +/- Std Dev : 5630.475 +/- 2.75e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

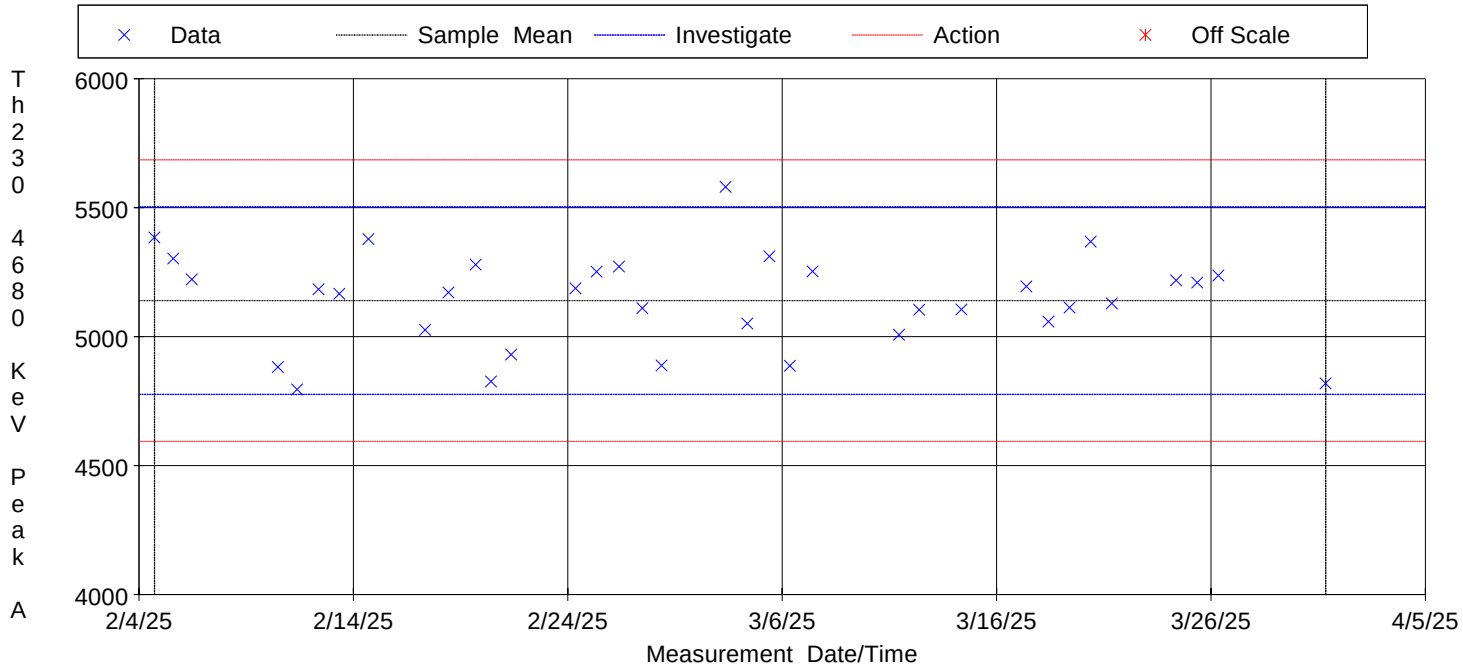
Full Parameter Results Report
4/2/25 10:40:47 AM

QA File: O:\alpha_sp\2025_QAF\4_April\25
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:04:11 PM
Sample End Date: 3/31/25 8:03:18 AM
Sample Mean: 5.13957E+03
Sample Std. Deviation: 1.81837E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:04:11 PM			5.38400E+03				
2/5/25 2:19:41 PM			5.30200E+03				
2/6/25 10:48:27 AM			5.22100E+03				
2/10/25 11:18:35 AM			4.88200E+03				
2/11/25 8:41:38 AM			4.79500E+03				
2/12/25 8:43:30 AM			5.18300E+03				
2/13/25 8:11:49 AM			5.16600E+03				
2/14/25 4:38:09 PM			5.37800E+03				
2/17/25 8:08:22 AM			5.02500E+03				
2/18/25 10:14:01 AM			5.17100E+03				
2/19/25 4:34:07 PM			5.27900E+03				
2/20/25 9:54:31 AM			4.82600E+03				
2/21/25 8:32:18 AM			4.93000E+03				
2/24/25 8:23:41 AM			5.18700E+03				
2/25/25 8:06:46 AM			5.25100E+03				
2/26/25 8:58:20 AM			5.27100E+03				
2/27/25 11:26:55 AM			5.11000E+03				
2/28/25 8:38:54 AM			4.88800E+03				
3/3/25 8:34:52 AM			5.58000E+03	In			
3/4/25 8:39:15 AM			5.05000E+03				
3/5/25 9:28:33 AM			5.31100E+03				
3/6/25 8:27:17 AM			4.88600E+03				
3/7/25 9:48:24 AM			5.25300E+03				
3/11/25 10:31:47 AM			5.00700E+03				
3/12/25 8:59:38 AM			5.10300E+03				
3/14/25 8:30:05 AM			5.10500E+03				
3/17/25 9:04:55 AM			5.19400E+03				
3/18/25 9:59:31 AM			5.05800E+03				
3/19/25 9:25:40 AM			5.11200E+03				
3/20/25 9:00:08 AM			5.36800E+03				
3/21/25 8:35:57 AM			5.12800E+03				
3/24/25 8:57:06 AM			5.21800E+03				
3/25/25 8:33:34 AM			5.20900E+03				
3/26/25 8:00:33 AM			5.23600E+03				
3/31/25 8:03:18 AM			4.81800E+03				

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\25_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:04:11 PM - 3/31/25 8:03:18 AM
Sample Mean +/- Std Dev : 5139.571 +/- 1.82e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:41:51 AM

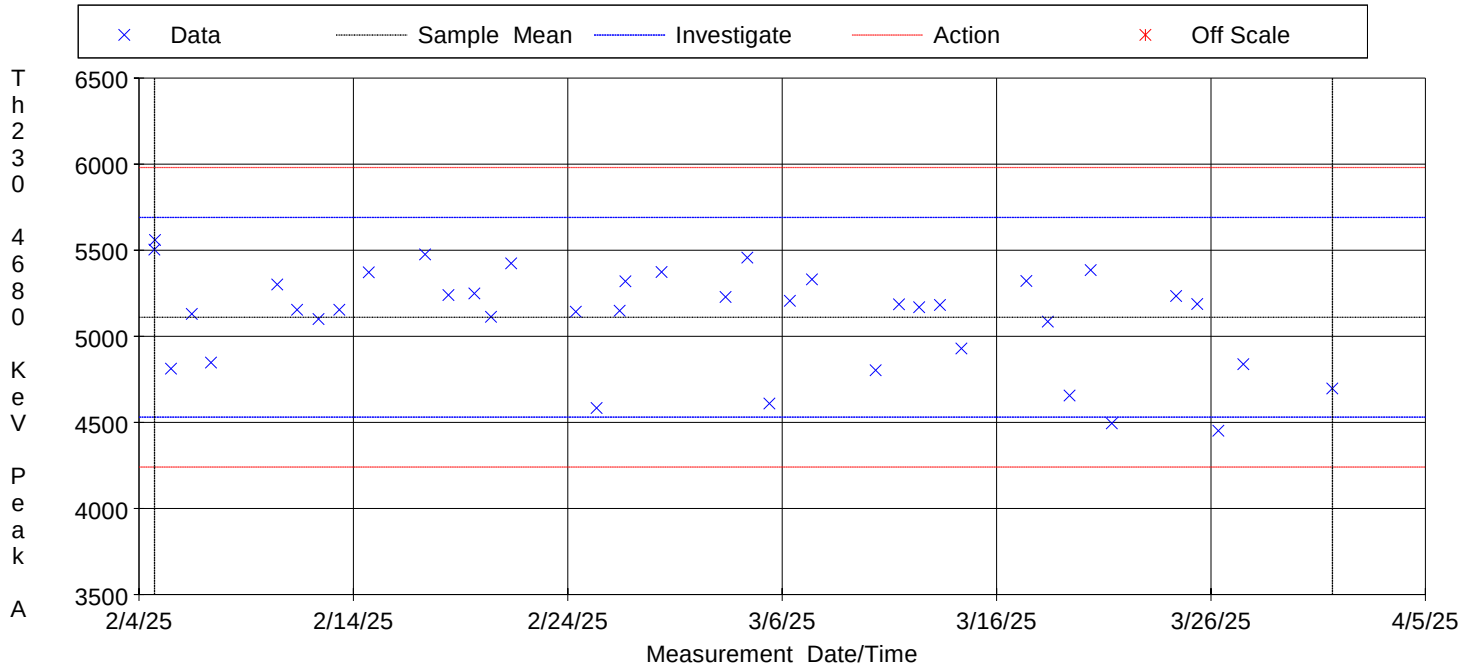
QA File: O:\alpha_sp\2025_QAF\4_April\26
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:04:13 PM
Sample End Date: 3/31/25 3:34:17 PM
Sample Mean: 5.11042E+03
Sample Std. Deviation: 2.89732E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:04:13 PM			5.50300E+03				
2/4/25 5:37:12 PM			5.55900E+03				
2/5/25 11:34:19 AM			4.81200E+03				
2/6/25 10:48:29 AM			5.12900E+03				
2/7/25 8:34:49 AM			4.84600E+03				
2/10/25 10:35:46 AM			5.30000E+03				
2/11/25 8:41:39 AM			5.15300E+03				
2/12/25 8:43:31 AM			5.10000E+03				
2/13/25 8:11:51 AM			5.15300E+03				
2/14/25 5:10:02 PM			5.37000E+03				
2/17/25 8:08:26 AM			5.47400E+03				
2/18/25 10:14:04 AM			5.23900E+03				
2/19/25 3:11:48 PM			5.24900E+03				
2/20/25 9:54:32 AM			5.11200E+03				
2/21/25 8:32:19 AM			5.42300E+03				
2/24/25 8:36:02 AM			5.14200E+03				
2/25/25 8:06:47 AM			4.58200E+03				
2/26/25 9:42:33 AM			5.14800E+03				
2/26/25 4:15:10 PM			5.31800E+03				
2/28/25 8:38:55 AM			5.37200E+03				
3/3/25 8:34:53 AM			5.22800E+03				
3/4/25 8:39:16 AM			5.45600E+03				
3/5/25 9:28:34 AM			4.60900E+03				
3/6/25 8:27:19 AM			5.20500E+03				
3/7/25 9:00:11 AM			5.32900E+03				
3/10/25 8:22:29 AM			4.80200E+03				
3/11/25 10:31:49 AM			5.18500E+03				
3/12/25 8:59:39 AM			5.16800E+03				
3/13/25 8:32:31 AM			5.18100E+03				
3/14/25 8:30:07 AM			4.92900E+03				
3/17/25 9:04:56 AM			5.32000E+03				
3/18/25 9:05:51 AM			5.08500E+03				
3/19/25 9:25:42 AM			4.65500E+03				
3/20/25 9:00:10 AM			5.38300E+03				
3/21/25 8:35:58 AM			4.49400E+03		In		

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 8:57:07 AM			5.23400E+03				
3/25/25 8:33:35 AM			5.18700E+03				
3/26/25 8:00:34 AM			4.45000E+03	In			
3/27/25 12:00:29 PM			4.83700E+03				
3/31/25 3:34:17 PM			4.69600E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\26_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:04:13 PM - 3/31/25 3:34:17 PM
Sample Mean +/- Std Dev : 5110.425 +/- 2.90e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:42:43 AM

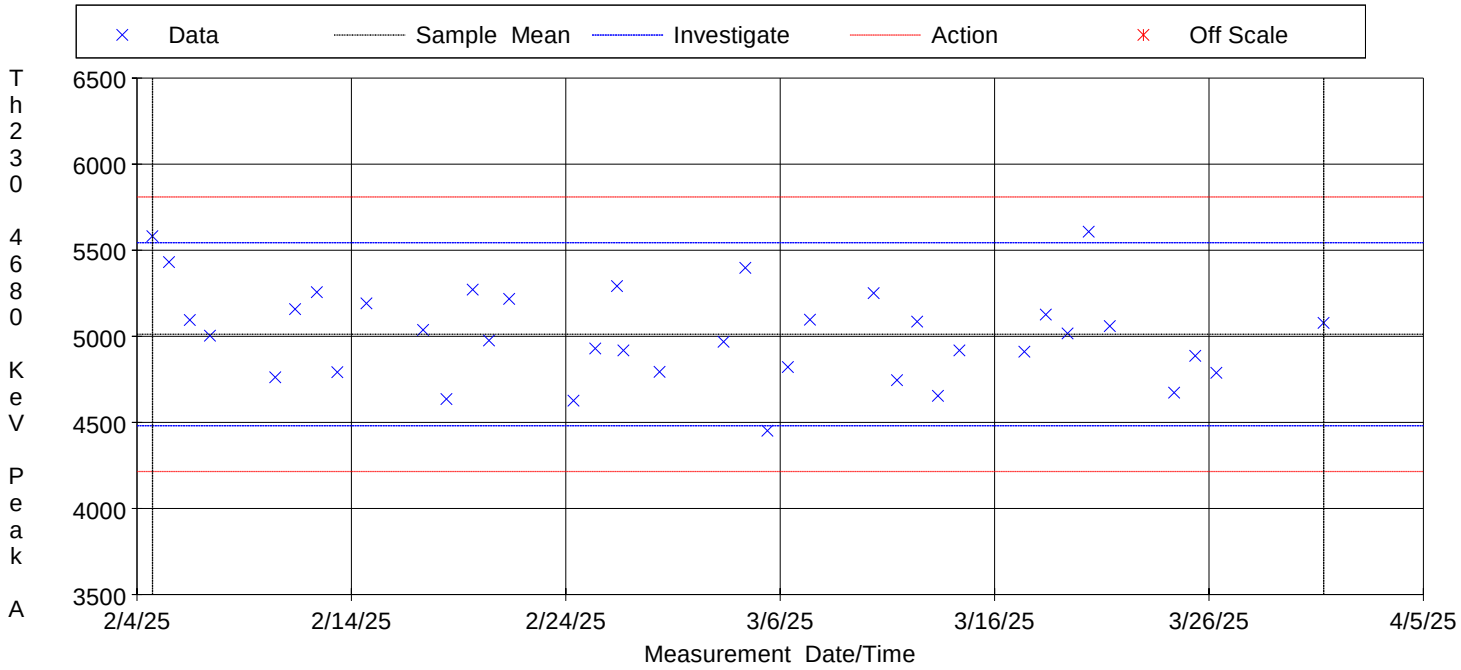
QA File: O:\alpha_sp\2025_QAF\4_April\27
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:03:48 PM
Sample End Date: 3/31/25 8:03:21 AM
Sample Mean: 5.01232E+03
Sample Std. Deviation: 2.66001E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:03:48 PM			5.58100E+03		In		
2/5/25 11:34:20 AM			5.43000E+03				
2/6/25 10:48:35 AM			5.09400E+03				
2/7/25 9:27:28 AM			5.00300E+03				
2/10/25 10:35:47 AM			4.76100E+03				
2/11/25 8:41:40 AM			5.15700E+03				
2/12/25 9:06:15 AM			5.25600E+03				
2/13/25 8:11:52 AM			4.79000E+03				
2/14/25 4:38:13 PM			5.19000E+03				
2/17/25 8:08:27 AM			5.03600E+03				
2/18/25 10:14:05 AM			4.63400E+03				
2/19/25 3:44:35 PM			5.27000E+03				
2/20/25 9:54:33 AM			4.97500E+03				
2/21/25 8:32:20 AM			5.21700E+03				
2/24/25 8:23:46 AM			4.62500E+03				
2/25/25 8:46:41 AM			4.92800E+03				
2/26/25 8:58:22 AM			5.29100E+03				
2/26/25 4:15:12 PM			4.91800E+03				
2/28/25 8:38:56 AM			4.79300E+03				
3/3/25 8:34:54 AM			4.96700E+03				
3/4/25 8:39:17 AM			5.39600E+03				
3/5/25 9:28:35 AM			4.45100E+03		In		
3/6/25 8:27:20 AM			4.82100E+03				
3/7/25 9:00:12 AM			5.09600E+03				
3/10/25 8:22:59 AM			5.25000E+03				
3/11/25 10:31:50 AM			4.74400E+03				
3/12/25 8:59:41 AM			5.08400E+03				
3/13/25 8:32:32 AM			4.65400E+03				
3/14/25 8:30:08 AM			4.91800E+03				
3/17/25 9:04:57 AM			4.90900E+03				
3/18/25 9:05:53 AM			5.12500E+03				
3/19/25 9:25:43 AM			5.01600E+03				
3/20/25 9:00:11 AM			5.60600E+03		In		
3/21/25 8:35:59 AM			5.05900E+03				
3/24/25 8:57:08 AM			4.67200E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:33:36 AM			4.88600E+03				
3/26/25 8:00:36 AM			4.78700E+03				
3/31/25 8:03:21 AM			5.07800E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\27_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:03:48 PM - 3/31/25 8:03:21 AM
Sample Mean +/- Std Dev : 5012.316 +/- 2.66e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:43:33 AM

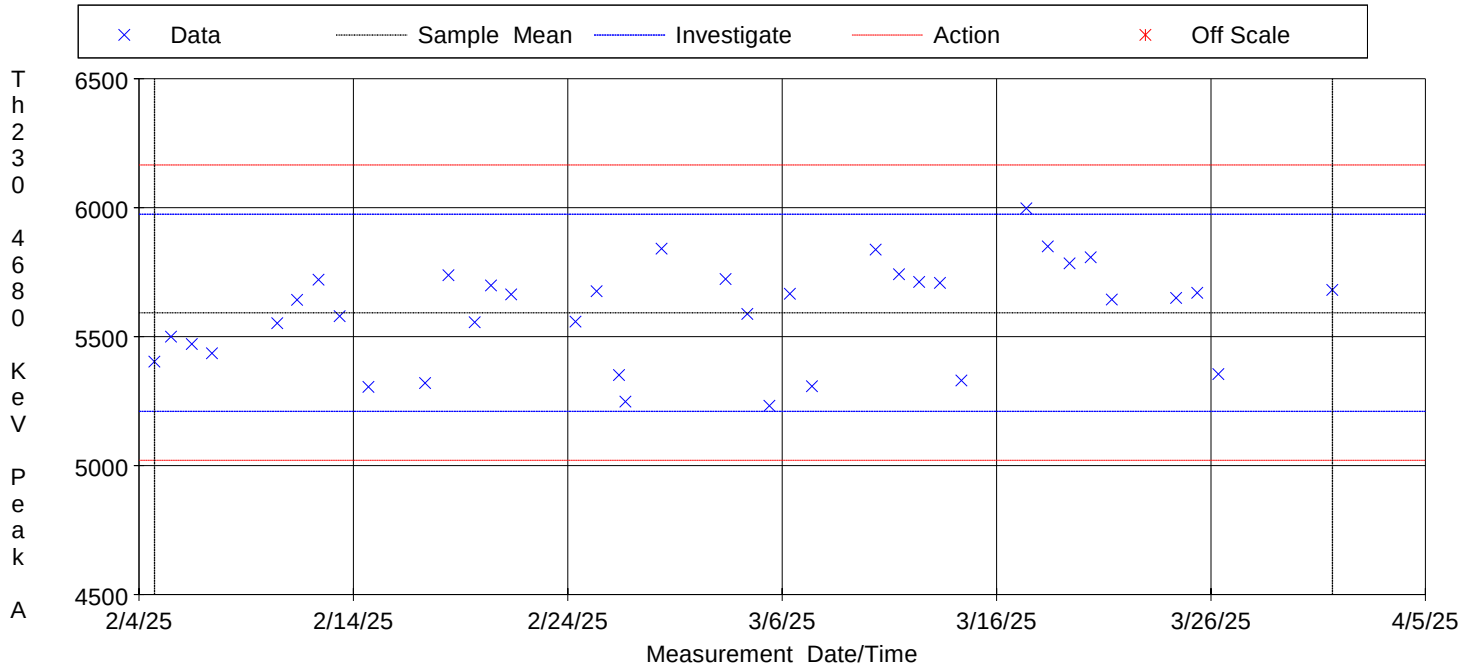
QA File: O:\alpha_sp\2025_QAF\4_April\28
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:04:23 PM
Sample End Date: 3/31/25 3:30:03 PM
Sample Mean: 5.59279E+03
Sample Std. Deviation: 1.90954E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:04:23 PM			5.40300E+03				
2/5/25 11:34:21 AM			5.50000E+03				
2/6/25 10:48:38 AM			5.47100E+03				
2/7/25 9:27:30 AM			5.43500E+03				
2/10/25 10:35:49 AM			5.55200E+03				
2/11/25 8:41:42 AM			5.64200E+03				
2/12/25 8:43:33 AM			5.72000E+03				
2/13/25 8:35:19 AM			5.57900E+03				
2/14/25 4:38:15 PM			5.30500E+03				
2/17/25 8:08:28 AM			5.31900E+03				
2/18/25 10:14:06 AM			5.73800E+03				
2/19/25 3:45:05 PM			5.55500E+03				
2/20/25 9:54:34 AM			5.69800E+03				
2/21/25 8:32:21 AM			5.66300E+03				
2/24/25 8:23:48 AM			5.55800E+03				
2/25/25 8:06:49 AM			5.67500E+03				
2/26/25 8:58:23 AM			5.35000E+03				
2/26/25 4:15:13 PM			5.24700E+03				
2/28/25 8:38:57 AM			5.84100E+03				
3/3/25 8:34:54 AM			5.72300E+03				
3/4/25 8:39:19 AM			5.58700E+03				
3/5/25 9:28:36 AM			5.23200E+03				
3/6/25 8:27:21 AM			5.66600E+03				
3/7/25 9:00:12 AM			5.30700E+03				
3/10/25 8:22:32 AM			5.83700E+03				
3/11/25 10:31:51 AM			5.74100E+03				
3/12/25 8:59:42 AM			5.71200E+03				
3/13/25 8:32:33 AM			5.70800E+03				
3/14/25 8:30:09 AM			5.33000E+03				
3/17/25 9:04:58 AM			5.99700E+03	In			
3/18/25 9:05:54 AM			5.84900E+03				
3/19/25 9:25:44 AM			5.78400E+03				
3/20/25 9:00:12 AM			5.80700E+03				
3/21/25 8:36:00 AM			5.64300E+03				
3/24/25 8:57:09 AM			5.64900E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:33:37 AM			5.66900E+03				
3/26/25 8:00:37 AM			5.35400E+03				
3/31/25 3:30:03 PM			5.68000E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\28_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:04:23 PM - 3/31/25 3:30:03 PM
Sample Mean +/- Std Dev : 5592.790 +/- 1.91e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

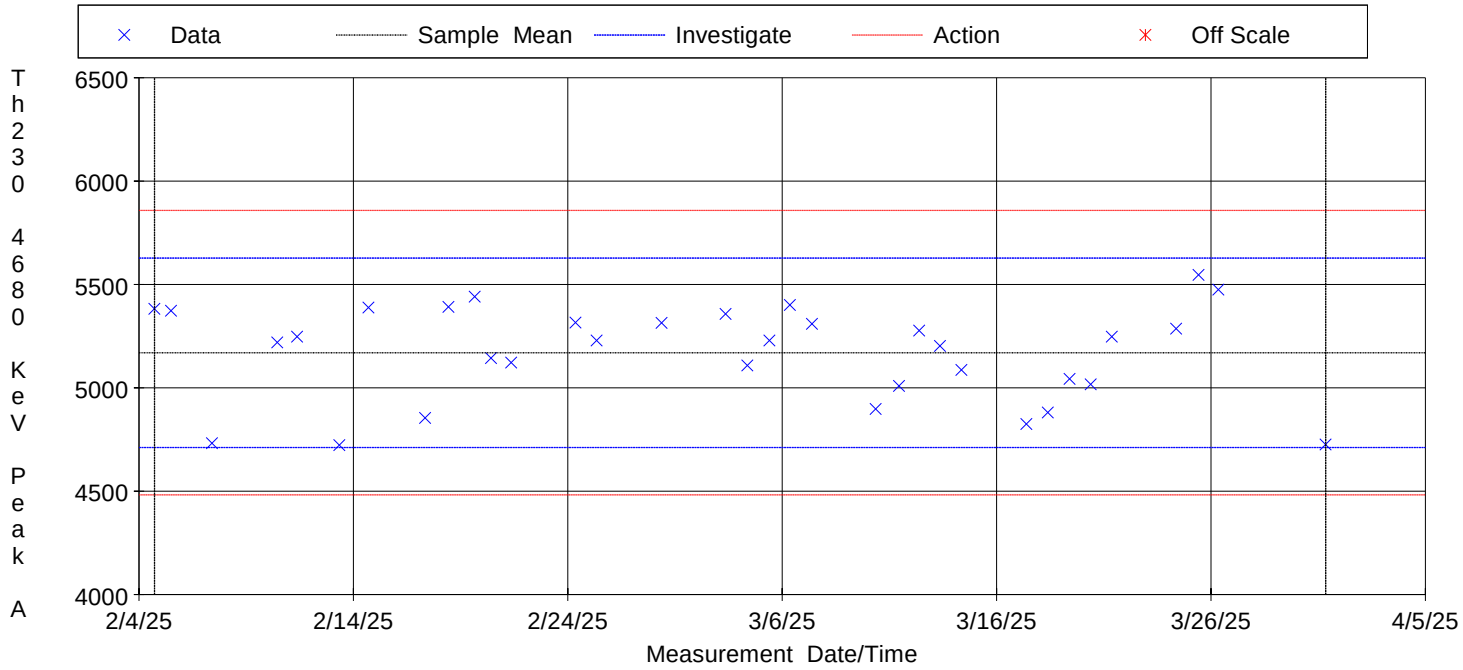
Full Parameter Results Report
4/2/25 10:44:12 AM

QA File: O:\alpha_sp\2025_QAF\4_April\29
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:04:25 PM
Sample End Date: 3/31/25 8:03:24 AM
Sample Mean: 5.17006E+03
Sample Std. Deviation: 2.29212E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:04:25 PM			5.38100E+03				
2/5/25 11:34:22 AM			5.37200E+03				
2/7/25 9:27:33 AM			4.73200E+03				
2/10/25 10:35:50 AM			5.21900E+03				
2/11/25 8:41:43 AM			5.24700E+03				
2/13/25 8:11:54 AM			4.72200E+03				
2/14/25 4:40:33 PM			5.38800E+03				
2/17/25 8:08:29 AM			4.85300E+03				
2/18/25 10:14:07 AM			5.39100E+03				
2/19/25 3:44:38 PM			5.44100E+03				
2/20/25 9:54:36 AM			5.14300E+03				
2/21/25 8:32:22 AM			5.12200E+03				
2/24/25 8:23:50 AM			5.31500E+03				
2/25/25 8:06:50 AM			5.22800E+03				
2/28/25 8:38:58 AM			5.31400E+03				
3/3/25 8:34:55 AM			5.35700E+03				
3/4/25 8:39:20 AM			5.10800E+03				
3/5/25 9:28:37 AM			5.22800E+03				
3/6/25 8:27:22 AM			5.40000E+03				
3/7/25 9:00:13 AM			5.30900E+03				
3/10/25 8:22:34 AM			4.89700E+03				
3/11/25 10:31:52 AM			5.00900E+03				
3/12/25 8:59:43 AM			5.27700E+03				
3/13/25 8:32:34 AM			5.20200E+03				
3/14/25 8:30:11 AM			5.08600E+03				
3/17/25 9:04:59 AM			4.82400E+03				
3/18/25 9:05:55 AM			4.88000E+03				
3/19/25 9:25:45 AM			5.04300E+03				
3/20/25 9:00:13 AM			5.01600E+03				
3/21/25 8:36:01 AM			5.24700E+03				
3/24/25 8:57:11 AM			5.28600E+03				
3/25/25 9:51:30 AM			5.54500E+03				
3/26/25 8:00:38 AM			5.47500E+03				
3/31/25 8:03:24 AM			4.72500E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\29_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:04:25 PM - 3/31/25 8:03:24 AM
Sample Mean +/- Std Dev : 5170.059 +/- 2.29e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:45:00 AM

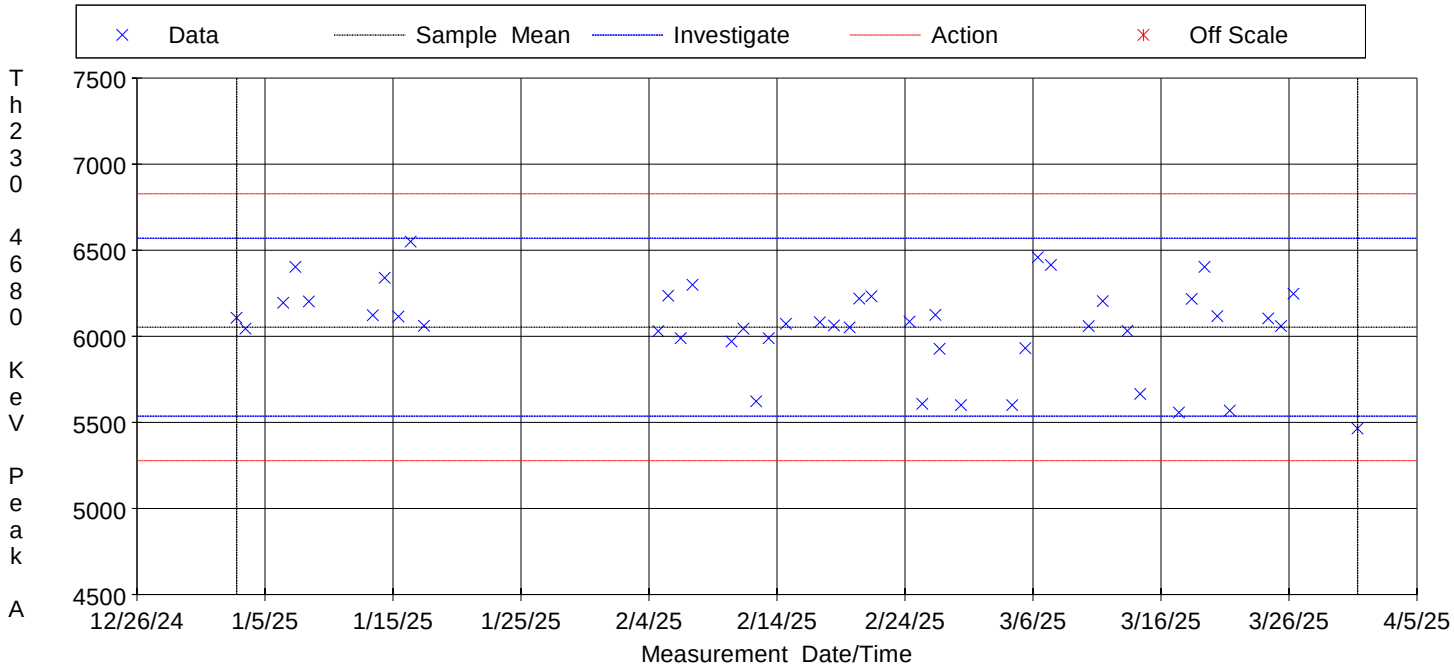
QA File: O:\alpha_sp\2025_QAF\4_April\30
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 1/2/25 6:04:32 PM
Sample End Date: 3/31/25 8:22:01 AM
Sample Mean: 6.05335E+03
Sample Std. Deviation: 2.58253E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
1/2/25 6:04:32 PM			6.10700E+03				
1/3/25 11:23:55 AM			6.04400E+03				
1/6/25 9:40:22 AM			6.19400E+03				
1/7/25 8:36:34 AM			6.40300E+03				
1/8/25 9:36:48 AM			6.20100E+03				
1/13/25 9:47:25 AM			6.12100E+03				
1/14/25 7:53:25 AM			6.33900E+03				
1/15/25 9:58:49 AM			6.11400E+03				
1/16/25 8:38:57 AM			6.55000E+03				
1/17/25 9:49:12 AM			6.06000E+03				
2/4/25 5:04:33 PM			6.02900E+03				
2/5/25 11:34:23 AM			6.23500E+03				
2/6/25 10:48:41 AM			5.98700E+03				
2/7/25 9:27:35 AM			6.29900E+03				
2/10/25 10:35:52 AM			5.96900E+03				
2/11/25 8:41:44 AM			6.04400E+03				
2/12/25 8:43:35 AM			5.62100E+03				
2/13/25 8:11:55 AM			5.98800E+03				
2/14/25 4:38:18 PM			6.07200E+03				
2/17/25 8:08:30 AM			6.08100E+03				
2/18/25 10:14:09 AM			6.06300E+03				
2/19/25 3:44:40 PM			6.05100E+03				
2/20/25 9:54:37 AM			6.21900E+03				
2/21/25 8:32:24 AM			6.23100E+03				
2/24/25 8:23:53 AM			6.08500E+03				
2/25/25 8:06:52 AM			5.60600E+03				
2/26/25 8:58:26 AM			6.12400E+03				
2/26/25 4:38:10 PM			5.92700E+03				
2/28/25 8:38:59 AM			5.59900E+03				
3/4/25 8:39:21 AM			5.59900E+03				
3/5/25 9:28:38 AM			5.93000E+03				
3/6/25 8:27:23 AM			6.45900E+03				
3/7/25 9:00:15 AM			6.41300E+03				
3/10/25 8:22:35 AM			6.05900E+03				
3/11/25 10:31:53 AM			6.20400E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/13/25 8:32:35 AM			6.03100E+03				
3/14/25 8:30:12 AM			5.66500E+03				
3/17/25 9:05:00 AM			5.55700E+03				
3/18/25 9:05:56 AM			6.21600E+03				
3/19/25 9:25:46 AM			6.40300E+03				
3/20/25 9:00:14 AM			6.11600E+03				
3/21/25 8:36:02 AM			5.56700E+03				
3/24/25 8:57:12 AM			6.10300E+03				
3/25/25 8:33:39 AM			6.05800E+03				
3/26/25 8:00:39 AM			6.24700E+03				
3/31/25 8:22:01 AM			5.46400E+03		In		

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\30_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 1/02/25 6:04:32 PM - 3/31/25 8:22:01 AM
Sample Mean +/- Std Dev : 6053.348 +/- 2.58e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:45:59 AM

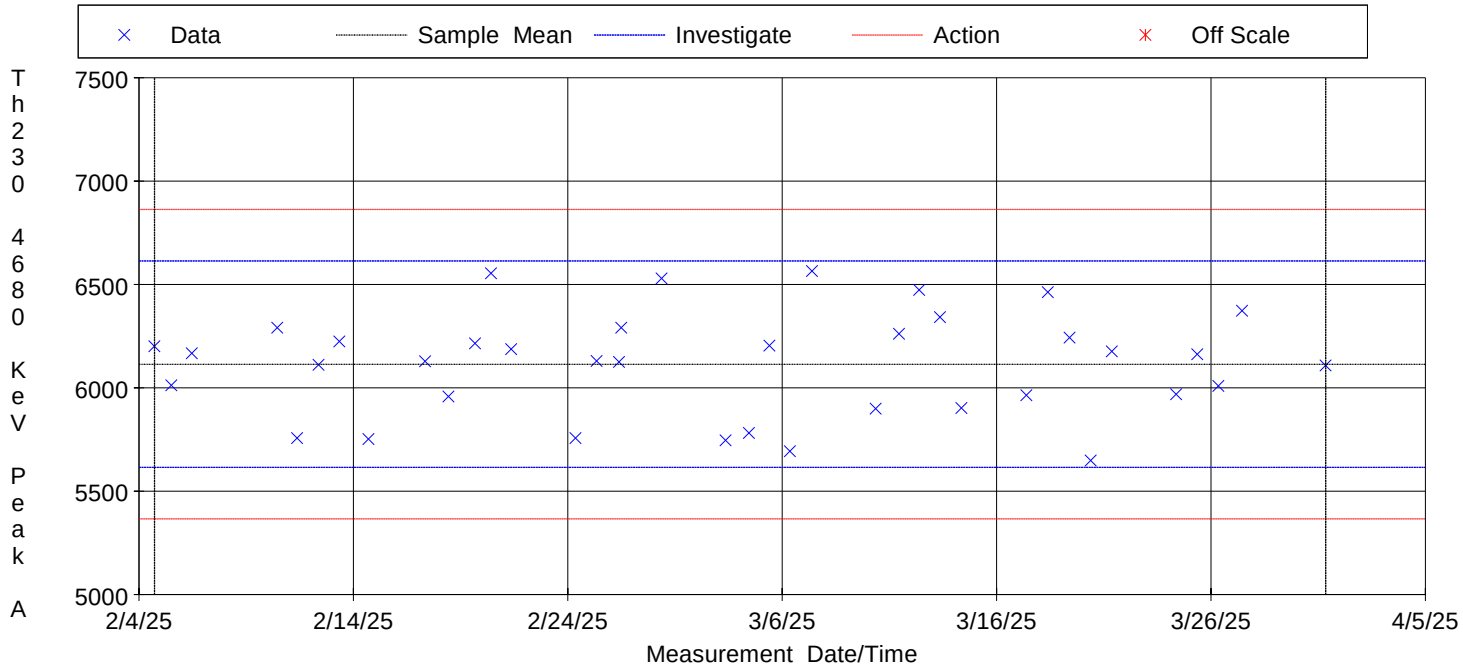
QA File: O:\alpha_sp\2025_QAF\4_April\32
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:04:38 PM
Sample End Date: 3/31/25 8:03:27 AM
Sample Mean: 6.11453E+03
Sample Std. Deviation: 2.49290E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:04:38 PM			6.20100E+03				
2/5/25 11:55:32 AM			6.01200E+03				
2/6/25 10:48:42 AM			6.16600E+03				
2/10/25 10:35:53 AM			6.29000E+03				
2/11/25 8:41:45 AM			5.75600E+03				
2/12/25 8:43:36 AM			6.11100E+03				
2/13/25 8:11:56 AM			6.22300E+03				
2/14/25 4:38:19 PM			5.75100E+03				
2/17/25 8:08:31 AM			6.12800E+03				
2/18/25 10:14:10 AM			5.95800E+03				
2/19/25 3:46:29 PM			6.21400E+03				
2/20/25 9:54:38 AM			6.55400E+03				
2/21/25 8:32:25 AM			6.18600E+03				
2/24/25 8:23:55 AM			5.75600E+03				
2/25/25 8:06:53 AM			6.13000E+03				
2/26/25 8:58:27 AM			6.12400E+03				
2/26/25 11:46:21 AM			6.29000E+03				
2/28/25 8:39:00 AM			6.52900E+03				
3/3/25 8:34:57 AM			5.74600E+03				
3/4/25 10:31:41 AM			5.78100E+03				
3/5/25 9:28:39 AM			6.20400E+03				
3/6/25 8:27:24 AM			5.69300E+03				
3/7/25 9:00:16 AM			6.56500E+03				
3/10/25 8:22:36 AM			5.89900E+03				
3/11/25 10:31:54 AM			6.26100E+03				
3/12/25 8:59:45 AM			6.47300E+03				
3/13/25 8:32:36 AM			6.34100E+03				
3/14/25 8:30:13 AM			5.90100E+03				
3/17/25 9:05:01 AM			5.96400E+03				
3/18/25 9:05:57 AM			6.46200E+03				
3/19/25 9:25:47 AM			6.24300E+03				
3/20/25 9:00:15 AM			5.64800E+03				
3/21/25 8:36:03 AM			6.17500E+03				
3/24/25 8:57:14 AM			5.96900E+03				
3/25/25 8:33:40 AM			6.16100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/26/25 8:00:40 AM			6.00800E+03				
3/27/25 10:30:52 AM			6.37200E+03				
3/31/25 8:03:27 AM			6.10700E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\32_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:04:38 PM - 3/31/25 8:03:27 AM
Sample Mean +/- Std Dev : 6114.526 +/- 2.49e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:47:19 AM

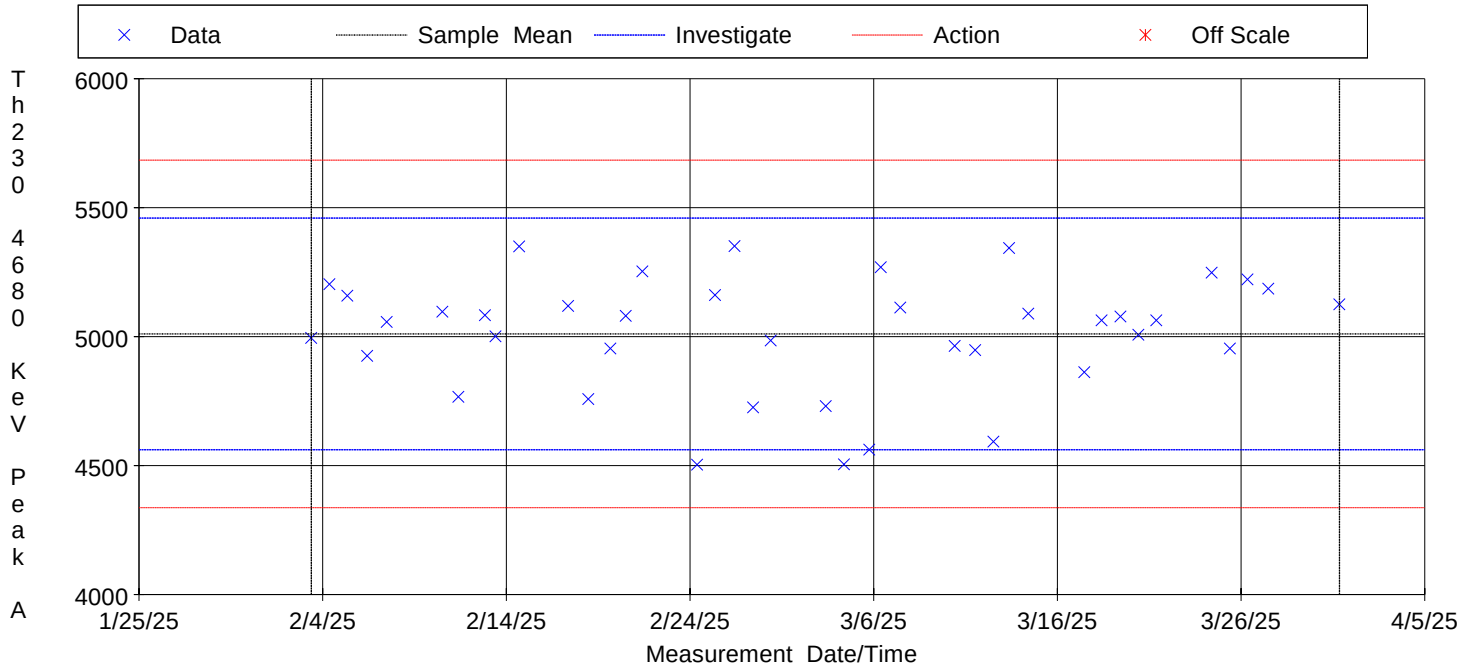
QA File: O:\alpha_sp\2025_QAF\4_April\33
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:40 AM
Sample End Date: 3/31/25 8:15:39 AM
Sample Mean: 5.01083E+03
Sample Std. Deviation: 2.24553E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:40 AM			4.99500E+03				
2/4/25 8:28:44 AM			5.20300E+03				
2/5/25 8:10:08 AM			5.15800E+03				
2/6/25 9:56:57 AM			4.92500E+03				
2/7/25 11:14:13 AM			5.05700E+03				
2/10/25 11:57:39 AM			5.09600E+03				
2/11/25 9:01:59 AM			4.76600E+03				
2/12/25 7:43:37 PM			5.08200E+03				
2/13/25 9:25:17 AM			5.00100E+03				
2/14/25 4:35:51 PM			5.34900E+03				
2/17/25 8:36:27 AM			5.11800E+03				
2/18/25 10:45:26 AM			4.75700E+03				
2/19/25 3:32:29 PM			4.95300E+03				
2/20/25 11:53:46 AM			5.08000E+03				
2/21/25 9:17:43 AM			5.25300E+03				
2/24/25 8:57:40 AM			4.50300E+03	In			
2/25/25 8:26:33 AM			5.16100E+03				
2/26/25 10:03:48 AM			5.35000E+03				
2/27/25 9:58:37 AM			4.72500E+03				
2/28/25 8:58:37 AM			4.98500E+03				
3/3/25 8:57:54 AM			4.73000E+03				
3/4/25 9:01:45 AM			4.50400E+03	In			
3/5/25 5:51:26 PM			4.56200E+03				
3/6/25 8:47:00 AM			5.26800E+03				
3/7/25 10:20:38 AM			5.11200E+03				
3/10/25 9:40:31 AM			4.96400E+03				
3/11/25 12:11:21 PM			4.94700E+03				
3/12/25 12:03:46 PM			4.59200E+03				
3/13/25 8:51:48 AM			5.34300E+03				
3/14/25 9:34:23 AM			5.08900E+03				
3/17/25 10:56:41 AM			4.86200E+03				
3/18/25 9:33:58 AM			5.06300E+03				
3/19/25 10:00:10 AM			5.07800E+03				
3/20/25 9:23:39 AM			5.00700E+03				
3/21/25 8:58:08 AM			5.06300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 9:21:32 AM			5.24800E+03				
3/25/25 9:03:48 AM			4.95300E+03				
3/26/25 8:19:18 AM			5.22100E+03				
3/27/25 11:22:24 AM			5.18500E+03				
3/31/25 8:15:39 AM			5.12500E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\33_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:40 AM - 3/31/25 8:15:39 AM
Sample Mean +/- Std Dev : 5010.825 +/- 2.25e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:48:43 AM

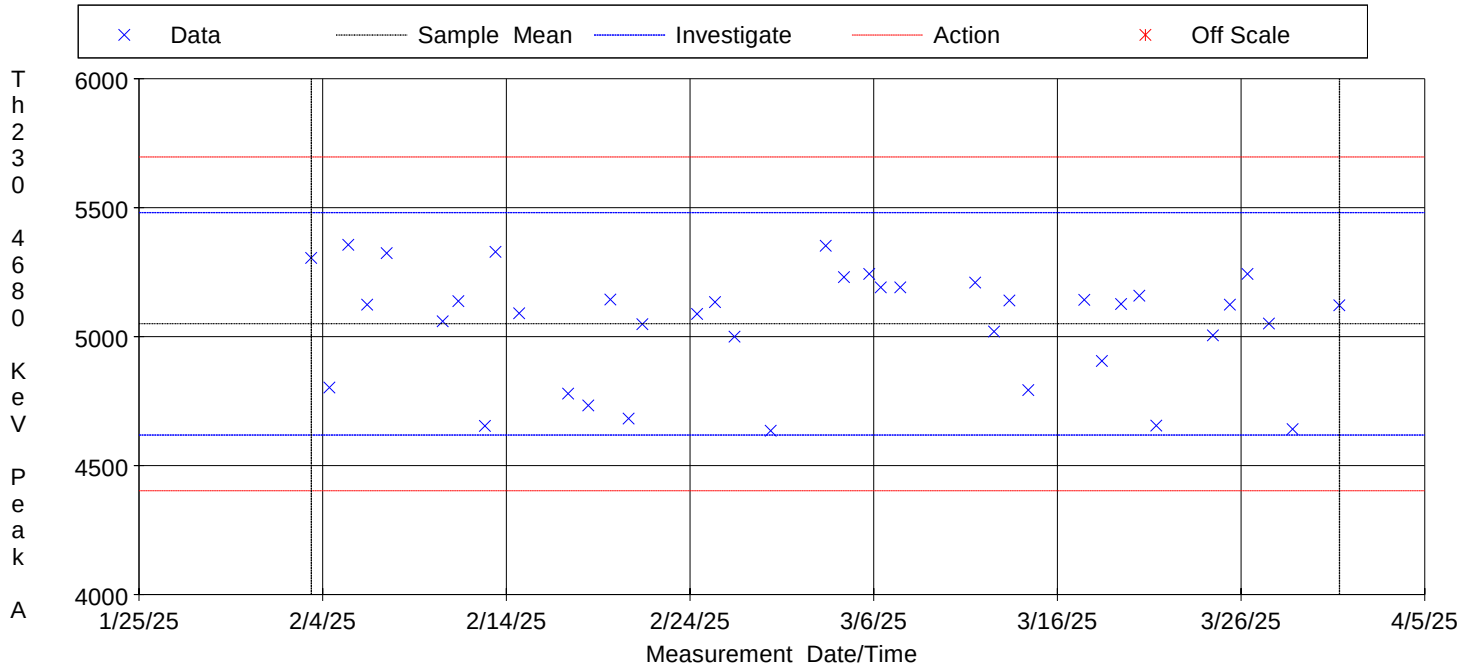
QA File: O:\alpha_sp\2025_QAF\4_April\34
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:41 AM
Sample End Date: 3/31/25 8:15:40 AM
Sample Mean: 5.04995E+03
Sample Std. Deviation: 2.15695E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:41 AM			5.30500E+03				
2/4/25 8:28:45 AM			4.80200E+03				
2/5/25 9:18:07 AM			5.35600E+03				
2/6/25 9:57:06 AM			5.12300E+03				
2/7/25 11:14:14 AM			5.32300E+03				
2/10/25 12:22:36 PM			5.05900E+03				
2/11/25 9:02:01 AM			5.13700E+03				
2/12/25 7:43:39 PM			4.65300E+03				
2/13/25 9:25:18 AM			5.32800E+03				
2/14/25 4:36:08 PM			5.09000E+03				
2/17/25 8:36:28 AM			4.77900E+03				
2/18/25 10:45:27 AM			4.73300E+03				
2/19/25 3:32:33 PM			5.14300E+03				
2/20/25 3:29:10 PM			4.68200E+03				
2/21/25 9:17:44 AM			5.04800E+03				
2/24/25 8:57:41 AM			5.08800E+03				
2/25/25 8:26:34 AM			5.13300E+03				
2/26/25 10:03:49 AM			4.99900E+03				
2/28/25 8:58:38 AM			4.63400E+03				
3/3/25 8:57:55 AM			5.35200E+03				
3/4/25 9:01:46 AM			5.23000E+03				
3/5/25 5:51:28 PM			5.24200E+03				
3/6/25 8:47:03 AM			5.19100E+03				
3/7/25 10:20:39 AM			5.19000E+03				
3/11/25 12:22:08 PM			5.20900E+03				
3/12/25 12:51:43 PM			5.01900E+03				
3/13/25 8:52:16 AM			5.14000E+03				
3/14/25 9:34:25 AM			4.79200E+03				
3/17/25 10:56:43 AM			5.14200E+03				
3/18/25 9:59:24 AM			4.90500E+03				
3/19/25 11:01:08 AM			5.12600E+03				
3/20/25 11:01:01 AM			5.15800E+03				
3/21/25 8:58:09 AM			4.65400E+03				
3/24/25 10:48:25 AM			5.00400E+03				
3/25/25 9:03:51 AM			5.12400E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/26/25 8:19:21 AM			5.24300E+03				
3/27/25 12:06:45 PM			5.05000E+03				
3/28/25 6:55:08 PM			4.64100E+03				
3/31/25 8:15:40 AM			5.12100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\34_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:41 AM - 3/31/25 8:15:40 AM
Sample Mean +/- Std Dev : 5049.949 +/- 2.16e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:50:35 AM

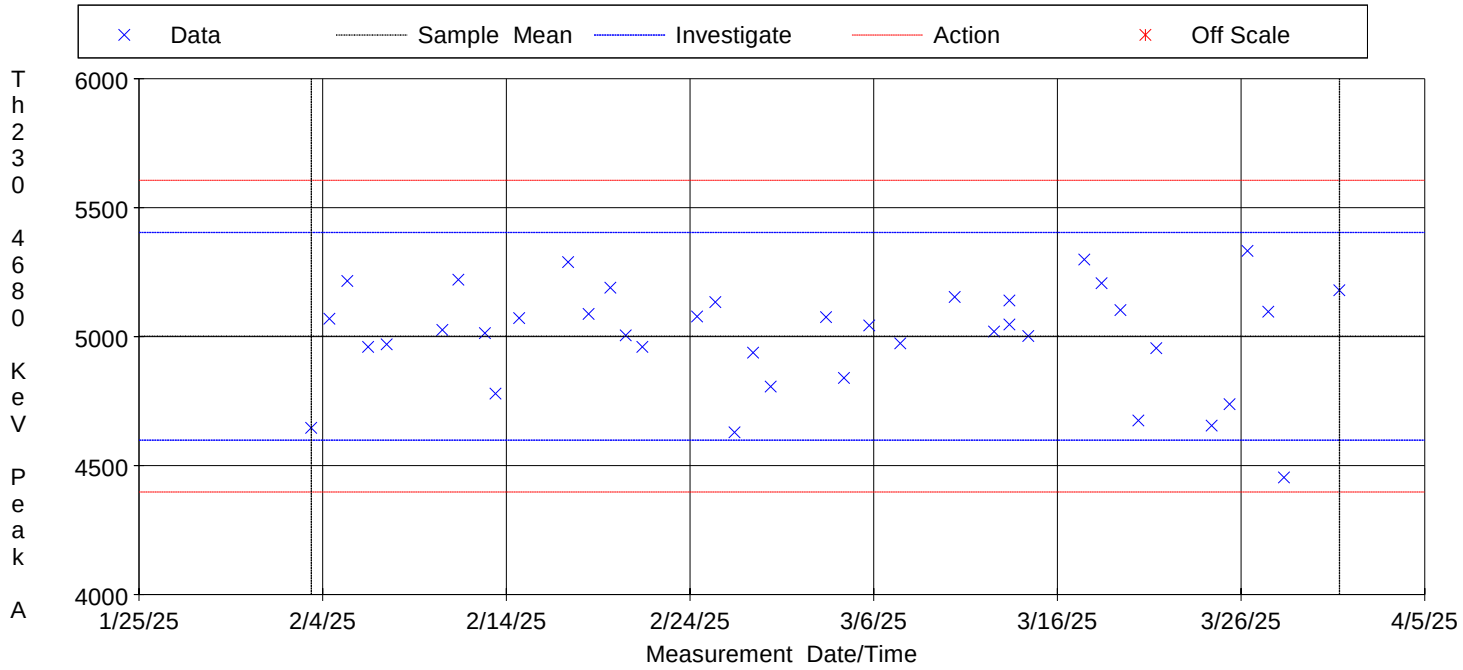
QA File: O:\alpha_sp\2025_QAF\4_April\35
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:42 AM
Sample End Date: 3/31/25 8:19:25 AM
Sample Mean: 5.00155E+03
Sample Std. Deviation: 2.01318E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:42 AM			4.64600E+03				
2/4/25 8:28:46 AM			5.06900E+03				
2/5/25 8:10:10 AM			5.21500E+03				
2/6/25 11:10:43 AM			4.96000E+03				
2/7/25 11:14:15 AM			4.97000E+03				
2/10/25 11:57:41 AM			5.02600E+03				
2/11/25 9:02:02 AM			5.22000E+03				
2/12/25 7:45:42 PM			5.01300E+03				
2/13/25 9:25:19 AM			4.77900E+03				
2/14/25 4:36:29 PM			5.07100E+03				
2/17/25 8:36:29 AM			5.28900E+03				
2/18/25 11:09:16 AM			5.08800E+03				
2/19/25 3:49:14 PM			5.18900E+03				
2/20/25 11:53:53 AM			5.00400E+03				
2/21/25 9:34:11 AM			4.96000E+03				
2/24/25 8:57:42 AM			5.07700E+03				
2/25/25 8:54:28 AM			5.13300E+03				
2/26/25 10:03:50 AM			4.62900E+03				
2/27/25 9:58:39 AM			4.93700E+03				
2/28/25 8:58:39 AM			4.80600E+03				
3/3/25 9:22:53 AM			5.07500E+03				
3/4/25 9:01:46 AM			4.83900E+03				
3/5/25 5:51:29 PM			5.04300E+03				
3/7/25 10:20:40 AM			4.97300E+03				
3/10/25 9:40:33 AM			5.15300E+03				
3/12/25 12:51:43 PM			5.01900E+03				
3/13/25 8:51:51 AM			5.04700E+03				
3/13/25 8:52:16 AM			5.14000E+03				
3/14/25 9:34:30 AM			5.00200E+03				
3/17/25 10:59:16 AM			5.29800E+03				
3/18/25 9:34:00 AM			5.20700E+03				
3/19/25 10:00:13 AM			5.10200E+03				
3/20/25 9:23:44 AM			4.67400E+03				
3/21/25 8:58:10 AM			4.95500E+03				
3/24/25 9:21:43 AM			4.65500E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:56:22 AM			4.73800E+03				
3/26/25 8:19:25 AM			5.33200E+03				
3/27/25 11:22:27 AM			5.09600E+03				
3/28/25 7:41:27 AM			4.45400E+03		In		
3/31/25 8:19:25 AM			5.17900E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\35_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:42 AM - 3/31/25 8:19:25 AM
Sample Mean +/- Std Dev : 5001.550 +/- 2.01e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:51:31 AM

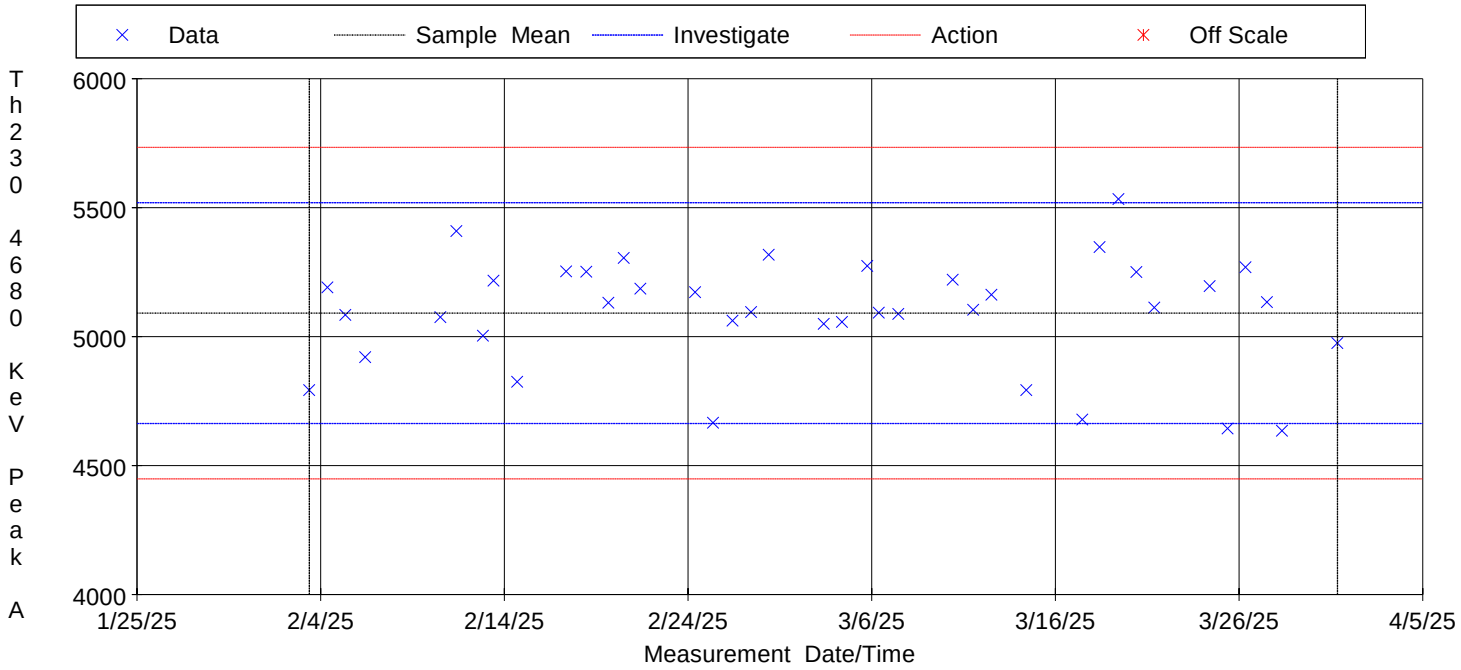
QA File: O:\alpha_sp\2025_QAF\4_April\36
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:43 AM
Sample End Date: 3/31/25 8:19:26 AM
Sample Mean: 5.09105E+03
Sample Std. Deviation: 2.14105E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:43 AM			4.79200E+03				
2/4/25 8:28:47 AM			5.19000E+03				
2/5/25 8:10:11 AM			5.08400E+03				
2/6/25 9:57:10 AM			4.92000E+03				
2/10/25 11:57:42 AM			5.07500E+03				
2/11/25 9:02:03 AM			5.40900E+03				
2/12/25 7:43:42 PM			5.00300E+03				
2/13/25 9:25:20 AM			5.21600E+03				
2/14/25 4:36:50 PM			4.82500E+03				
2/17/25 8:36:31 AM			5.25200E+03				
2/18/25 10:45:29 AM			5.25100E+03				
2/19/25 3:49:16 PM			5.13100E+03				
2/20/25 11:56:46 AM			5.30400E+03				
2/21/25 9:17:46 AM			5.18500E+03				
2/24/25 8:57:43 AM			5.17200E+03				
2/25/25 8:26:37 AM			4.66600E+03				
2/26/25 10:03:51 AM			5.06100E+03				
2/27/25 9:58:40 AM			5.09500E+03				
2/28/25 8:58:41 AM			5.31700E+03				
3/3/25 8:57:57 AM			5.04900E+03				
3/4/25 9:01:48 AM			5.05600E+03				
3/5/25 5:51:31 PM			5.27300E+03				
3/6/25 8:47:05 AM			5.09200E+03				
3/7/25 10:20:41 AM			5.08800E+03				
3/10/25 9:40:34 AM			5.22000E+03				
3/11/25 12:11:24 PM			5.10300E+03				
3/12/25 12:03:49 PM			5.16200E+03				
3/14/25 9:34:25 AM			4.79200E+03				
3/17/25 10:59:19 AM			4.67800E+03				
3/18/25 9:34:01 AM			5.34700E+03				
3/19/25 10:00:14 AM			5.53300E+03		In		
3/20/25 9:23:46 AM			5.25000E+03				
3/21/25 8:58:11 AM			5.11200E+03				
3/24/25 9:21:46 AM			5.19500E+03				
3/25/25 8:56:23 AM			4.64300E+03		In		

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/26/25 8:19:27 AM			5.26800E+03				
3/27/25 12:06:57 PM			5.13300E+03				
3/28/25 7:41:30 AM			4.63400E+03	In			
3/31/25 8:19:26 AM			4.97500E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\36_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:43 AM - 3/31/25 8:19:26 AM
Sample Mean +/- Std Dev : 5091.051 +/- 2.14e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:52:39 AM

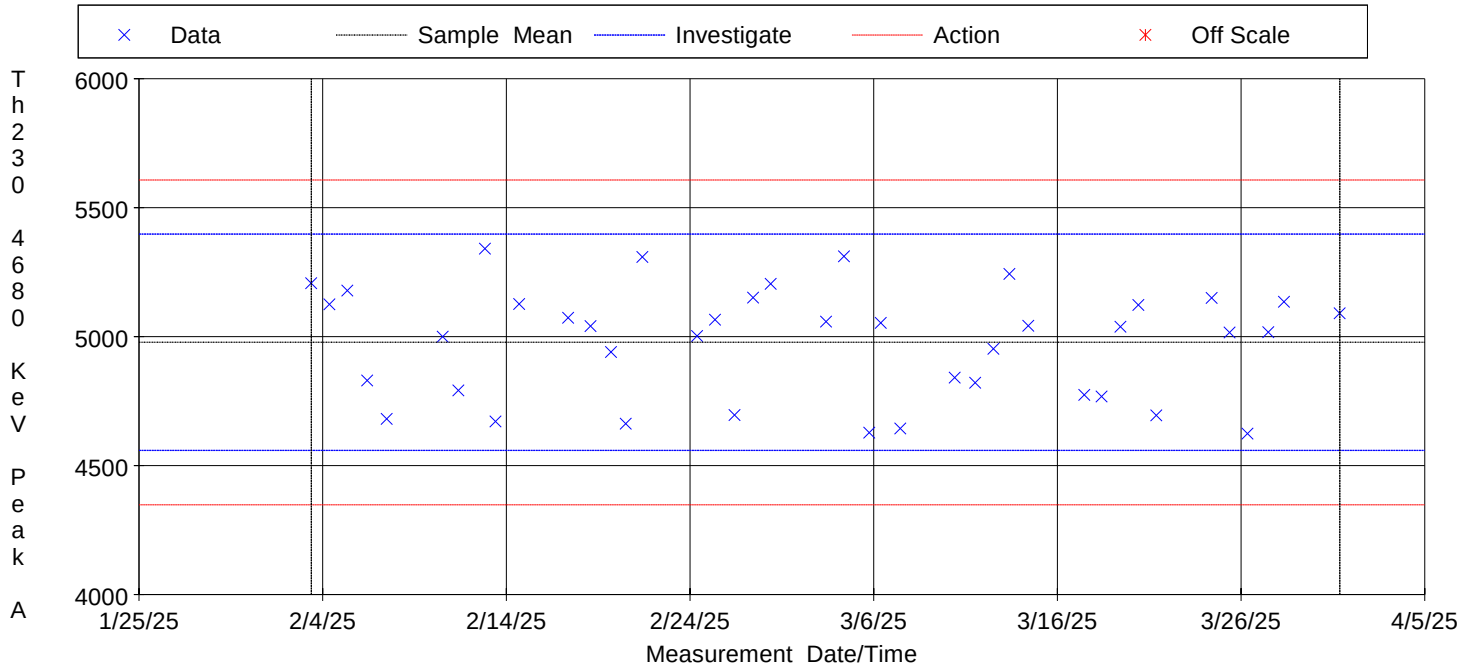
QA File: O:\alpha_sp\2025_QAF\4_April\37
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:44 AM
Sample End Date: 3/31/25 8:26:12 AM
Sample Mean: 4.97805E+03
Sample Std. Deviation: 2.09856E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:44 AM			5.20600E+03				
2/4/25 8:28:47 AM			5.12500E+03				
2/5/25 8:10:12 AM			5.17800E+03				
2/6/25 9:57:11 AM			4.82900E+03				
2/7/25 11:27:19 AM			4.68100E+03				
2/10/25 12:23:02 PM			4.99900E+03				
2/11/25 9:02:04 AM			4.79100E+03				
2/12/25 7:43:43 PM			5.34000E+03				
2/13/25 9:25:21 AM			4.67100E+03				
2/14/25 4:37:17 PM			5.12600E+03				
2/17/25 8:36:32 AM			5.07200E+03				
2/18/25 1:45:04 PM			5.04000E+03				
2/19/25 4:30:04 PM			4.94000E+03				
2/20/25 11:56:50 AM			4.66200E+03				
2/21/25 9:17:47 AM			5.30800E+03				
2/24/25 8:57:44 AM			5.00200E+03				
2/25/25 8:26:38 AM			5.06500E+03				
2/26/25 10:03:52 AM			4.69600E+03				
2/27/25 9:58:41 AM			5.15100E+03				
2/28/25 8:58:42 AM			5.20400E+03				
3/3/25 9:26:02 AM			5.05800E+03				
3/4/25 9:01:48 AM			5.31100E+03				
3/5/25 5:51:32 PM			4.62700E+03				
3/6/25 8:47:06 AM			5.05300E+03				
3/7/25 10:20:42 AM			4.64300E+03				
3/10/25 9:40:35 AM			4.84000E+03				
3/11/25 12:11:25 PM			4.82100E+03				
3/12/25 12:03:51 PM			4.95200E+03				
3/13/25 8:51:53 AM			5.24300E+03				
3/14/25 9:34:32 AM			5.04100E+03				
3/17/25 10:56:47 AM			4.77300E+03				
3/18/25 9:34:02 AM			4.76700E+03				
3/19/25 10:00:15 AM			5.03800E+03				
3/20/25 9:23:47 AM			5.12200E+03				
3/21/25 8:58:13 AM			4.69400E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 9:21:48 AM			5.15000E+03				
3/25/25 8:56:24 AM			5.01500E+03				
3/26/25 8:19:28 AM			4.62400E+03				
3/27/25 11:22:31 AM			5.01700E+03				
3/28/25 7:55:26 AM			5.13500E+03				
3/31/25 8:26:12 AM			5.09000E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\37_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:44 AM - 3/31/25 8:26:12 AM
Sample Mean +/- Std Dev : 4978.049 +/- 2.10e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:53:36 AM

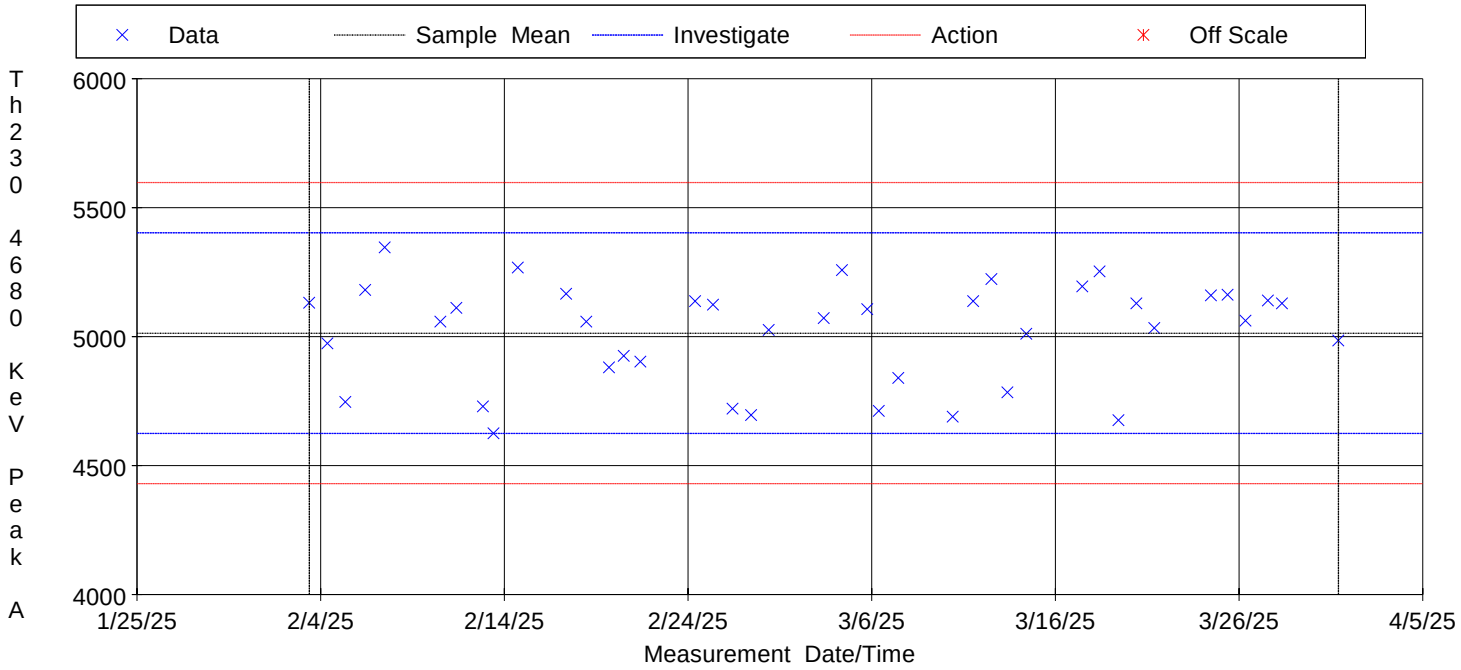
QA File: O:\alpha_sp\2025_QAF\4_April\38
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:45 AM
Sample End Date: 3/31/25 9:21:20 AM
Sample Mean: 5.01332E+03
Sample Std. Deviation: 1.94578E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:45 AM			5.13100E+03				
2/4/25 8:28:48 AM			4.97300E+03				
2/5/25 8:10:13 AM			4.74600E+03				
2/6/25 9:57:13 AM			5.18100E+03				
2/7/25 11:14:18 AM			5.34500E+03				
2/10/25 11:57:44 AM			5.05800E+03				
2/11/25 9:02:05 AM			5.11100E+03				
2/12/25 7:43:44 PM			4.72900E+03				
2/13/25 9:25:22 AM			4.62500E+03				
2/14/25 5:10:22 PM			5.26700E+03				
2/17/25 8:36:33 AM			5.16600E+03				
2/18/25 10:45:31 AM			5.05800E+03				
2/19/25 4:30:06 PM			4.88000E+03				
2/20/25 11:56:56 AM			4.92500E+03				
2/21/25 9:17:48 AM			4.90200E+03				
2/24/25 8:57:45 AM			5.13700E+03				
2/25/25 8:26:38 AM			5.12400E+03				
2/26/25 10:03:53 AM			4.72000E+03				
2/27/25 9:58:42 AM			4.69500E+03				
2/28/25 8:58:43 AM			5.02500E+03				
3/3/25 8:57:59 AM			5.07100E+03				
3/4/25 9:01:49 AM			5.25800E+03				
3/5/25 5:51:34 PM			5.10600E+03				
3/6/25 8:47:08 AM			4.71100E+03				
3/7/25 10:20:44 AM			4.83900E+03				
3/10/25 9:40:36 AM			4.68900E+03				
3/11/25 12:11:26 PM			5.13700E+03				
3/12/25 12:03:52 PM			5.22300E+03				
3/13/25 8:51:54 AM			4.78400E+03				
3/14/25 9:34:33 AM			5.01100E+03				
3/17/25 10:56:48 AM			5.19400E+03				
3/18/25 9:34:04 AM			5.25200E+03				
3/19/25 10:00:16 AM			4.67600E+03				
3/20/25 9:23:48 AM			5.12900E+03				
3/21/25 8:58:14 AM			5.03300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:48:30 AM			5.15900E+03				
3/25/25 8:56:26 AM			5.16200E+03				
3/26/25 8:19:29 AM			5.06200E+03				
3/27/25 1:19:07 PM			5.13900E+03				
3/28/25 7:55:24 AM			5.12900E+03				
3/31/25 9:21:20 AM			4.98400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\38_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:45 AM - 3/31/25 9:21:20 AM
Sample Mean +/- Std Dev : 5013.317 +/- 1.95e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:54:30 AM

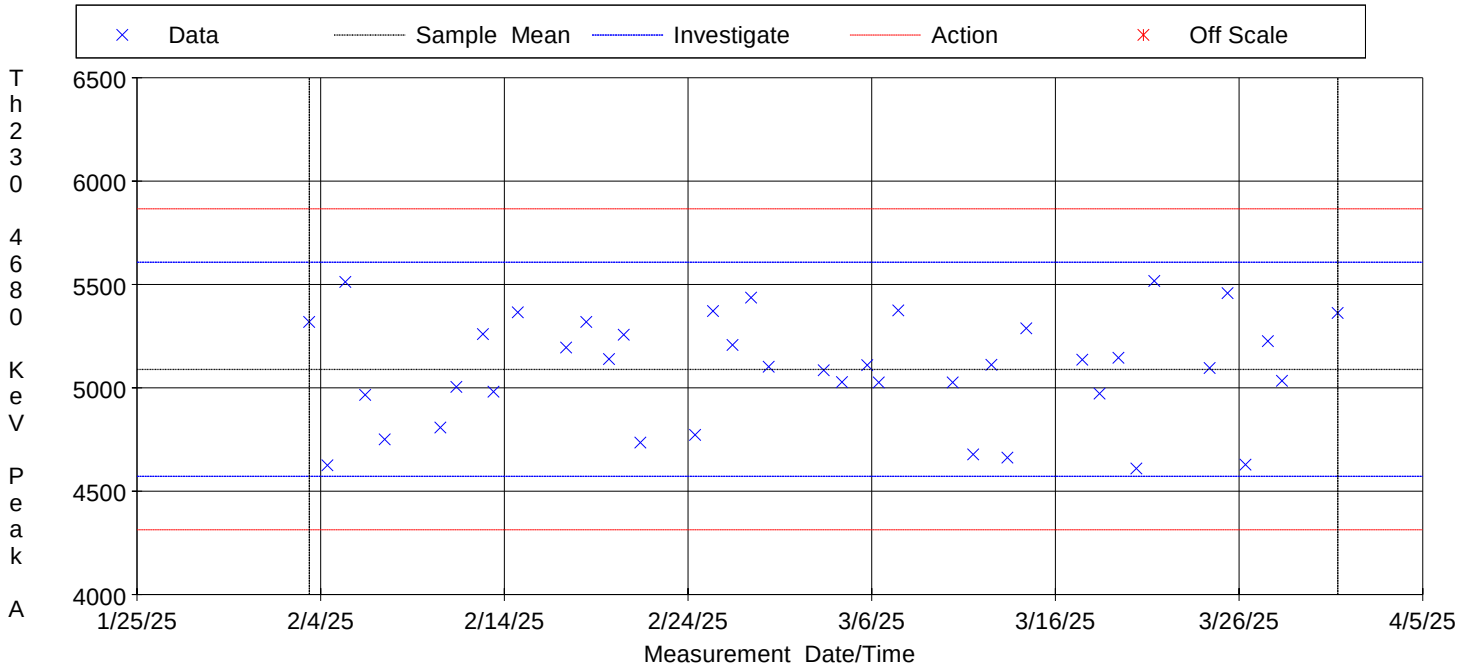
QA File: O:\alpha_sp\2025_QAF\4_April\39
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:46 AM
Sample End Date: 3/31/25 8:26:14 AM
Sample Mean: 5.08956E+03
Sample Std. Deviation: 2.58679E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:46 AM			5.31800E+03				
2/4/25 8:28:50 AM			4.62400E+03				
2/5/25 8:10:14 AM			5.51100E+03				
2/6/25 9:57:15 AM			4.96500E+03				
2/7/25 11:14:19 AM			4.75000E+03				
2/10/25 11:57:44 AM			4.80800E+03				
2/11/25 9:02:06 AM			5.00400E+03				
2/12/25 7:43:46 PM			5.26000E+03				
2/13/25 9:25:23 AM			4.98000E+03				
2/14/25 5:10:24 PM			5.36500E+03				
2/17/25 8:36:33 AM			5.19500E+03				
2/18/25 10:45:33 AM			5.31800E+03				
2/19/25 4:30:08 PM			5.13900E+03				
2/20/25 11:57:00 AM			5.25600E+03				
2/21/25 9:17:49 AM			4.73500E+03				
2/24/25 8:57:46 AM			4.77100E+03				
2/25/25 8:26:39 AM			5.37000E+03				
2/26/25 10:03:54 AM			5.20700E+03				
2/27/25 9:58:43 AM			5.43500E+03				
2/28/25 8:58:44 AM			5.10200E+03				
3/3/25 8:58:00 AM			5.08400E+03				
3/4/25 9:01:50 AM			5.02700E+03				
3/5/25 5:51:35 PM			5.10900E+03				
3/6/25 8:47:09 AM			5.02500E+03				
3/7/25 10:20:45 AM			5.37400E+03				
3/10/25 9:40:45 AM			5.02500E+03				
3/11/25 12:11:27 PM			4.67700E+03				
3/12/25 12:03:53 PM			5.11100E+03				
3/13/25 8:51:55 AM			4.66200E+03				
3/14/25 9:34:34 AM			5.28700E+03				
3/17/25 10:56:48 AM			5.13600E+03				
3/18/25 9:34:05 AM			4.97100E+03				
3/19/25 10:00:17 AM			5.14400E+03				
3/20/25 9:23:50 AM			4.60900E+03				
3/21/25 8:58:15 AM			5.51700E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 9:21:50 AM			5.09500E+03				
3/25/25 8:56:27 AM			5.45800E+03				
3/26/25 8:19:31 AM			4.62800E+03				
3/27/25 1:19:10 PM			5.22600E+03				
3/28/25 7:55:22 AM			5.03300E+03				
3/31/25 8:26:14 AM			5.36100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\39_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:46 AM - 3/31/25 8:26:14 AM
Sample Mean +/- Std Dev : 5089.561 +/- 2.59e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:55:30 AM

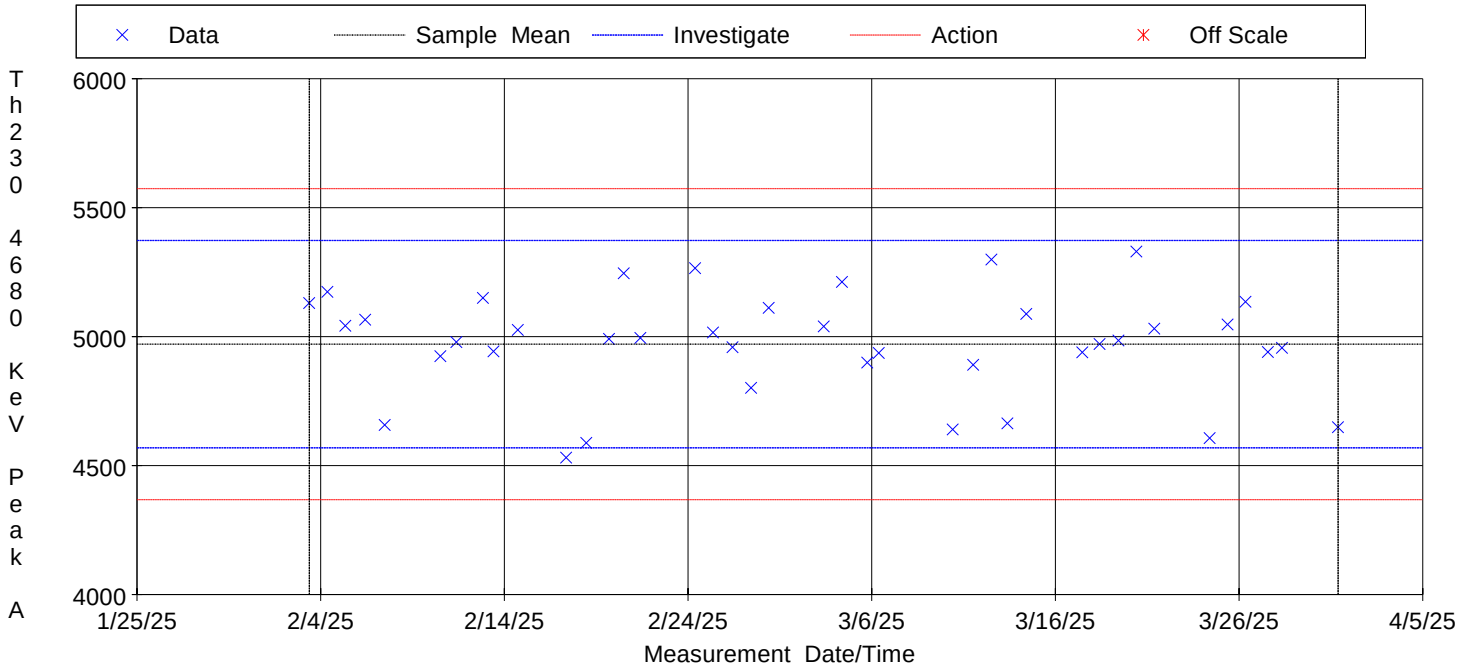
QA File: O:\alpha_sp\2025_QAF\4_April\40
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:47 AM
Sample End Date: 3/31/25 8:47:19 AM
Sample Mean: 4.97088E+03
Sample Std. Deviation: 2.01082E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:47 AM			5.13000E+03				
2/4/25 8:28:51 AM			5.17300E+03				
2/5/25 8:10:16 AM			5.04200E+03				
2/6/25 9:57:16 AM			5.06500E+03				
2/7/25 11:14:20 AM			4.65700E+03				
2/10/25 11:57:46 AM			4.92400E+03				
2/11/25 9:02:07 AM			4.97800E+03				
2/12/25 7:43:47 PM			5.15000E+03				
2/13/25 9:25:24 AM			4.94200E+03				
2/14/25 5:10:26 PM			5.02600E+03				
2/17/25 8:36:34 AM			4.53100E+03		In		
2/18/25 10:45:34 AM			4.58700E+03				
2/19/25 4:30:10 PM			4.99100E+03				
2/20/25 11:57:04 AM			5.24500E+03				
2/21/25 9:17:50 AM			4.99500E+03				
2/24/25 8:57:47 AM			5.26500E+03				
2/25/25 8:26:40 AM			5.01500E+03				
2/26/25 10:03:55 AM			4.95900E+03				
2/27/25 9:58:44 AM			4.80100E+03				
2/28/25 8:58:45 AM			5.11100E+03				
3/3/25 8:58:01 AM			5.03900E+03				
3/4/25 9:01:51 AM			5.21200E+03				
3/5/25 5:51:36 PM			4.89900E+03				
3/6/25 8:47:11 AM			4.93600E+03				
3/10/25 9:40:47 AM			4.63900E+03				
3/11/25 12:11:29 PM			4.89000E+03				
3/12/25 12:03:54 PM			5.29900E+03				
3/13/25 8:51:56 AM			4.66300E+03				
3/14/25 9:34:35 AM			5.08700E+03				
3/17/25 10:56:49 AM			4.93800E+03				
3/18/25 9:34:06 AM			4.97100E+03				
3/19/25 10:00:18 AM			4.98400E+03				
3/20/25 9:23:51 AM			5.32900E+03				
3/21/25 8:58:16 AM			5.03100E+03				
3/24/25 9:21:51 AM			4.60600E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:56:28 AM			5.04600E+03				
3/26/25 8:19:32 AM			5.13500E+03				
3/27/25 1:19:15 PM			4.94000E+03				
3/28/25 7:55:19 AM			4.95600E+03				
3/31/25 8:47:19 AM			4.64800E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\40_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:47 AM - 3/31/25 8:47:19 AM
Sample Mean +/- Std Dev : 4970.875 +/- 2.01e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:56:21 AM

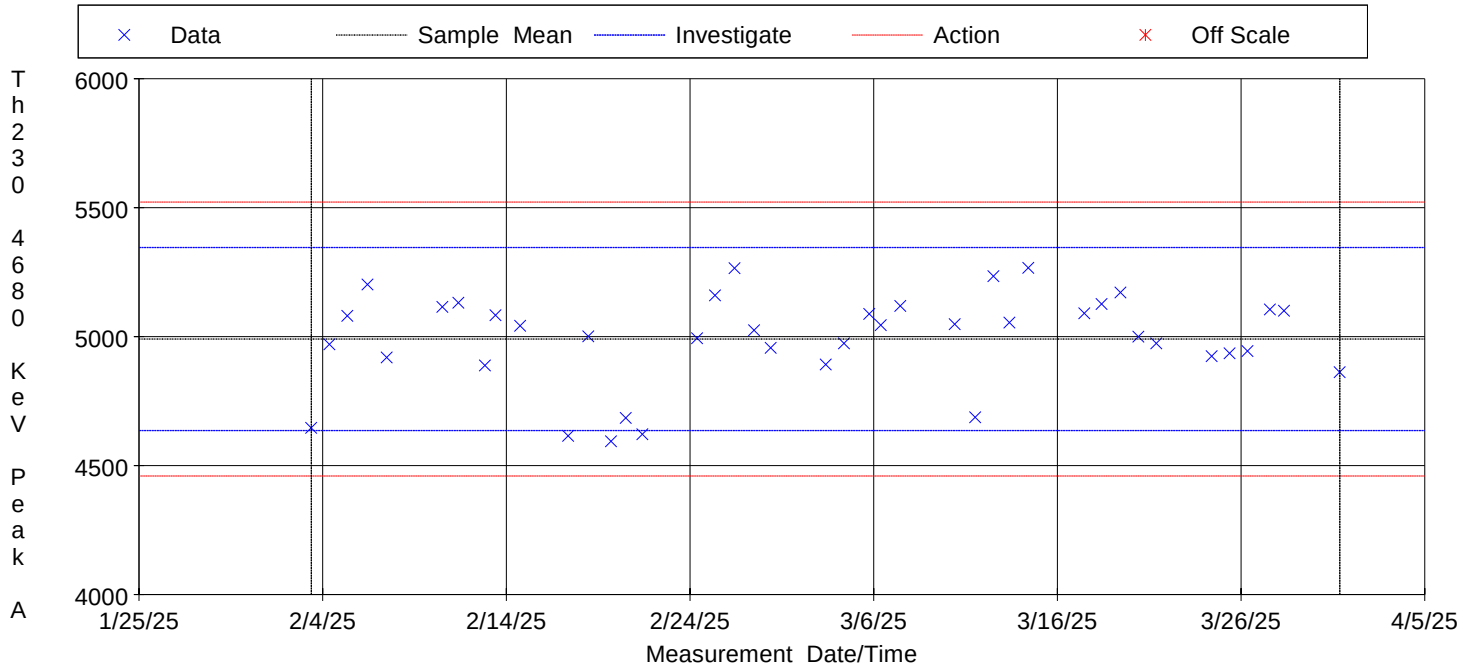
QA File: O:\alpha_sp\2025_QAF\4_April\41
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:48 AM
Sample End Date: 3/31/25 8:26:28 AM
Sample Mean: 4.99071E+03
Sample Std. Deviation: 1.77116E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:48 AM			4.64600E+03				
2/4/25 8:28:52 AM			4.96900E+03				
2/5/25 8:10:17 AM			5.08000E+03				
2/6/25 10:24:08 AM			5.20200E+03				
2/7/25 11:14:21 AM			4.91900E+03				
2/10/25 11:57:47 AM			5.11500E+03				
2/11/25 9:02:08 AM			5.13100E+03				
2/12/25 7:43:49 PM			4.88800E+03				
2/13/25 9:25:24 AM			5.08300E+03				
2/14/25 5:43:26 PM			5.04100E+03				
2/17/25 8:36:35 AM			4.61500E+03		In		
2/18/25 10:45:35 AM			5.00100E+03				
2/19/25 4:30:11 PM			4.59400E+03		In		
2/20/25 11:57:08 AM			4.68400E+03				
2/21/25 9:17:51 AM			4.62100E+03		In		
2/24/25 8:57:48 AM			4.99300E+03				
2/25/25 8:26:41 AM			5.16000E+03				
2/26/25 10:03:56 AM			5.26500E+03				
2/27/25 11:26:41 AM			5.02400E+03				
2/28/25 8:58:46 AM			4.95600E+03				
3/3/25 8:58:02 AM			4.89200E+03				
3/4/25 9:01:52 AM			4.97300E+03				
3/5/25 5:51:38 PM			5.08800E+03				
3/6/25 8:47:12 AM			5.04400E+03				
3/7/25 10:20:46 AM			5.11900E+03				
3/10/25 9:40:48 AM			5.04800E+03				
3/11/25 12:11:29 PM			4.68700E+03				
3/12/25 12:03:55 PM			5.23400E+03				
3/13/25 8:51:58 AM			5.05400E+03				
3/14/25 9:34:36 AM			5.26600E+03				
3/17/25 10:56:50 AM			5.09000E+03				
3/18/25 9:34:07 AM			5.12600E+03				
3/19/25 10:00:19 AM			5.17000E+03				
3/20/25 9:23:52 AM			4.99900E+03				
3/21/25 8:58:17 AM			4.97300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 9:21:52 AM			4.92400E+03				
3/25/25 8:56:30 AM			4.93500E+03				
3/26/25 8:19:33 AM			4.94300E+03				
3/27/25 1:19:18 PM			5.10500E+03				
3/28/25 7:55:17 AM			5.10000E+03				
3/31/25 8:26:28 AM			4.86200E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\41_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:48 AM - 3/31/25 8:26:28 AM
Sample Mean +/- Std Dev : 4990.708 +/- 1.77e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:57:20 AM

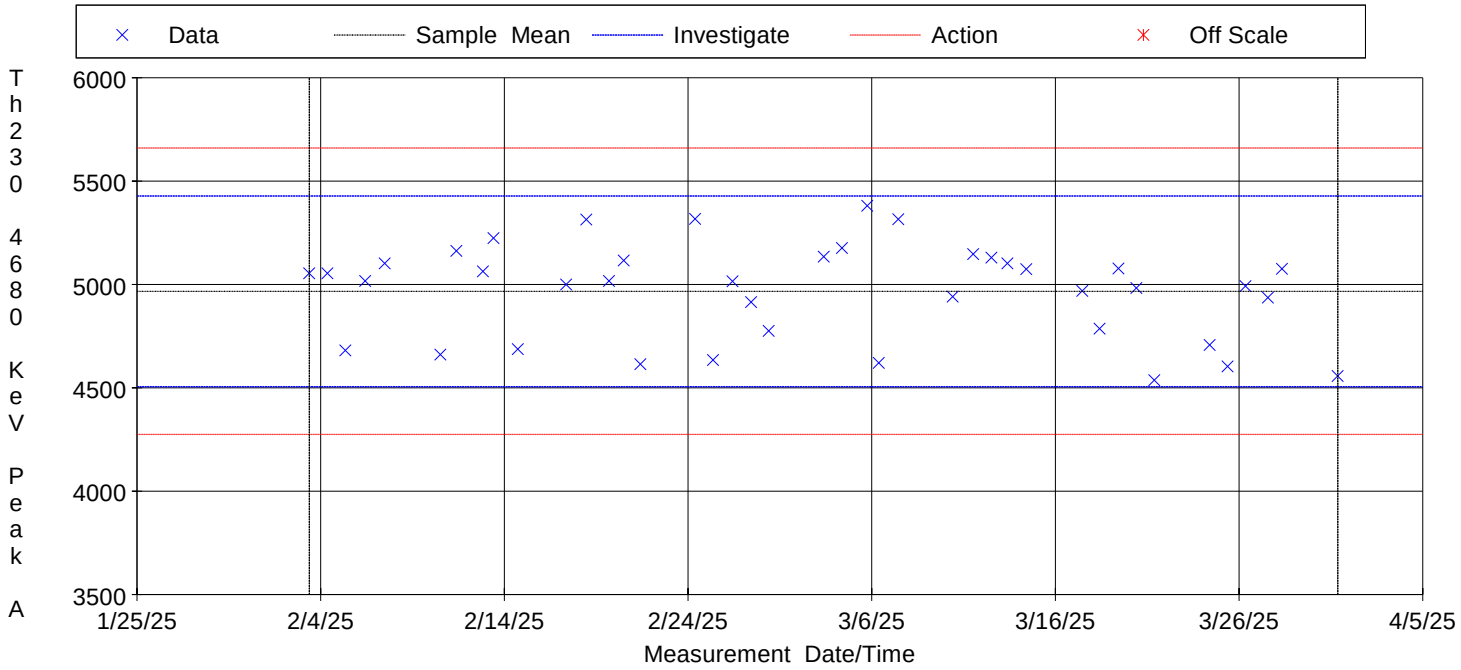
QA File: O:\alpha_sp\2025_QAF\4_April\42
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:49 AM
Sample End Date: 3/31/25 8:26:19 AM
Sample Mean: 4.96693E+03
Sample Std. Deviation: 2.30922E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:49 AM			5.05300E+03				
2/4/25 8:28:53 AM			5.05300E+03				
2/5/25 8:10:18 AM			4.68000E+03				
2/6/25 9:57:19 AM			5.01700E+03				
2/7/25 11:14:22 AM			5.10100E+03				
2/10/25 11:57:48 AM			4.66000E+03				
2/11/25 9:02:10 AM			5.16100E+03				
2/12/25 7:43:50 PM			5.06300E+03				
2/13/25 9:25:26 AM			5.22300E+03				
2/14/25 5:10:29 PM			4.68700E+03				
2/17/25 8:36:36 AM			4.99900E+03				
2/18/25 10:45:36 AM			5.31300E+03				
2/19/25 4:30:13 PM			5.01700E+03				
2/20/25 11:57:10 AM			5.11600E+03				
2/21/25 9:17:53 AM			4.61400E+03				
2/24/25 8:57:49 AM			5.31600E+03				
2/25/25 8:26:43 AM			4.63400E+03				
2/26/25 10:03:57 AM			5.01400E+03				
2/27/25 9:58:46 AM			4.91400E+03				
2/28/25 8:58:48 AM			4.77400E+03				
3/3/25 8:58:03 AM			5.13400E+03				
3/4/25 9:01:53 AM			5.17600E+03				
3/5/25 5:51:40 PM			5.38000E+03				
3/6/25 8:47:13 AM			4.62000E+03				
3/7/25 10:20:47 AM			5.31500E+03				
3/10/25 9:40:49 AM			4.94100E+03				
3/11/25 12:11:30 PM			5.14600E+03				
3/12/25 12:03:56 PM			5.13000E+03				
3/13/25 8:51:58 AM			5.10200E+03				
3/14/25 9:34:37 AM			5.07400E+03				
3/17/25 10:56:51 AM			4.96800E+03				
3/18/25 9:34:08 AM			4.78600E+03				
3/19/25 10:00:20 AM			5.07700E+03				
3/20/25 9:23:53 AM			4.98200E+03				
3/21/25 8:58:18 AM			4.53700E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 9:21:53 AM			4.70600E+03				
3/25/25 8:56:31 AM			4.60300E+03				
3/26/25 8:19:34 AM			4.99100E+03				
3/27/25 1:19:24 PM			4.93600E+03				
3/28/25 7:59:49 AM			5.07500E+03				
3/31/25 8:26:19 AM			4.55600E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\42_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:49 AM - 3/31/25 8:26:19 AM
Sample Mean +/- Std Dev : 4966.927 +/- 2.31e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:58:12 AM

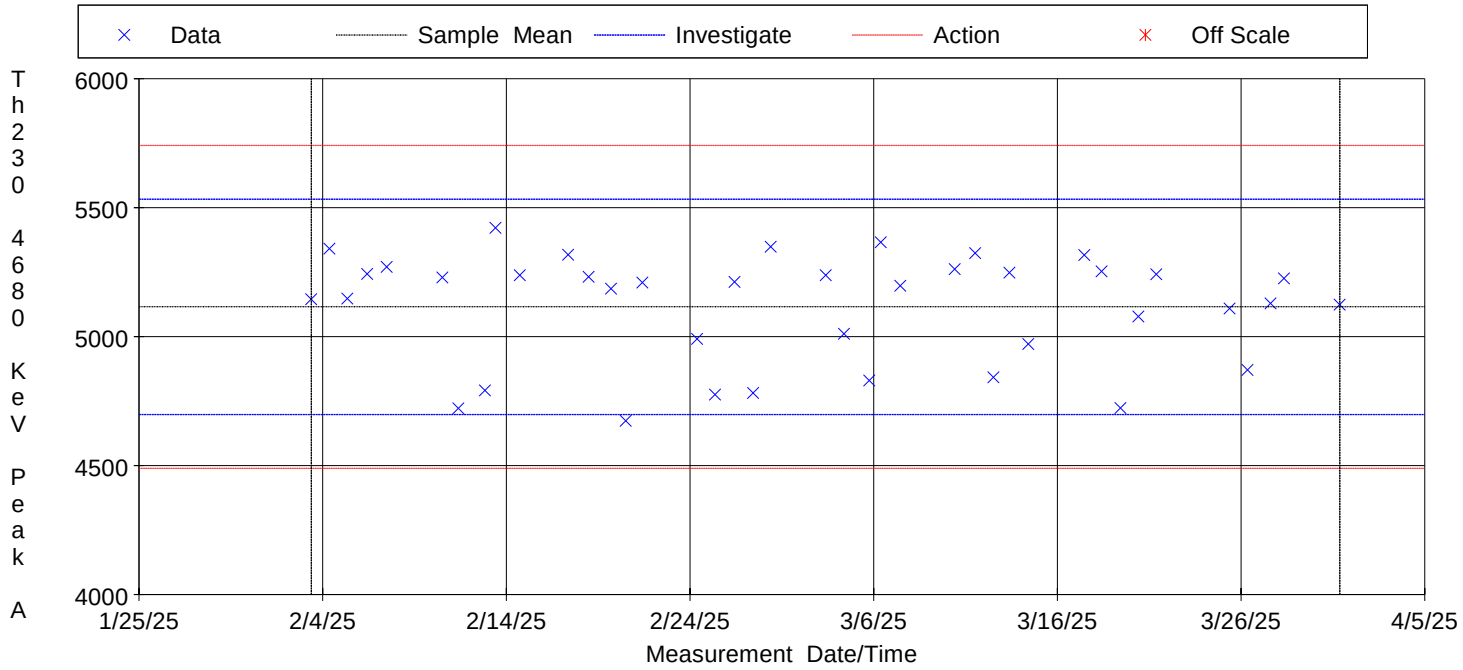
QA File: O:\alpha_sp\2025_QAF\4_April\43
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:50 AM
Sample End Date: 3/31/25 8:42:25 AM
Sample Mean: 5.11542E+03
Sample Std. Deviation: 2.08814E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:50 AM			5.14400E+03				
2/4/25 8:28:54 AM			5.34000E+03				
2/5/25 8:10:19 AM			5.14700E+03				
2/6/25 9:57:21 AM			5.24200E+03				
2/7/25 11:14:23 AM			5.27000E+03				
2/10/25 11:57:49 AM			5.22900E+03				
2/11/25 9:02:11 AM			4.72200E+03				
2/12/25 7:43:52 PM			4.79100E+03				
2/13/25 9:25:27 AM			5.42100E+03				
2/14/25 5:10:31 PM			5.23700E+03				
2/17/25 8:36:37 AM			5.31700E+03				
2/18/25 11:11:46 AM			5.23100E+03				
2/19/25 4:30:14 PM			5.18600E+03				
2/20/25 11:57:14 AM			4.67300E+03		In		
2/21/25 9:17:54 AM			5.20900E+03				
2/24/25 8:57:50 AM			4.99100E+03				
2/25/25 8:26:43 AM			4.77500E+03				
2/26/25 10:03:58 AM			5.21100E+03				
2/27/25 9:58:47 AM			4.78100E+03				
2/28/25 8:58:49 AM			5.34800E+03				
3/3/25 8:58:04 AM			5.23800E+03				
3/4/25 9:01:55 AM			5.01000E+03				
3/5/25 5:51:41 PM			4.83000E+03				
3/6/25 8:47:14 AM			5.36600E+03				
3/7/25 10:20:48 AM			5.19700E+03				
3/10/25 9:40:50 AM			5.26100E+03				
3/11/25 12:11:31 PM			5.32300E+03				
3/12/25 12:03:57 PM			4.84200E+03				
3/13/25 8:51:59 AM			5.24800E+03				
3/14/25 9:34:38 AM			4.97100E+03				
3/17/25 10:56:52 AM			5.31600E+03				
3/18/25 9:34:09 AM			5.25300E+03				
3/19/25 10:00:21 AM			4.72300E+03				
3/20/25 9:23:54 AM			5.07800E+03				
3/21/25 8:58:19 AM			5.24100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:56:32 AM			5.10800E+03				
3/26/25 8:19:35 AM			4.87000E+03				
3/27/25 2:21:17 PM			5.12800E+03				
3/28/25 7:59:51 AM			5.22500E+03				
3/31/25 8:42:25 AM			5.12400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\43_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:50 AM - 3/31/25 8:42:25 AM
Sample Mean +/- Std Dev : 5115.425 +/- 2.09e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:59:08 AM

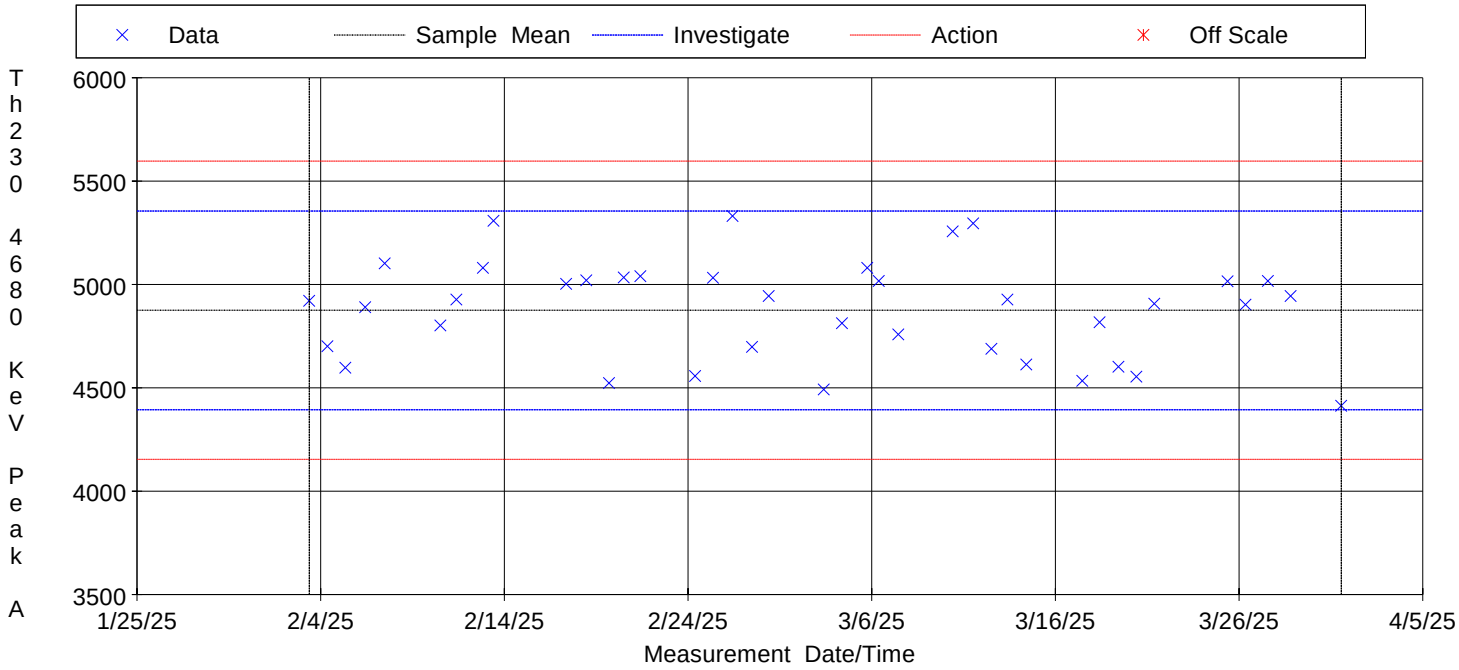
QA File: O:\alpha_sp\2025_QAF\4_April\44
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:51 AM
Sample End Date: 3/31/25 1:00:36 PM
Sample Mean: 4.87526E+03
Sample Std. Deviation: 2.40260E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:51 AM			4.92000E+03				
2/4/25 8:28:55 AM			4.70100E+03				
2/5/25 8:10:20 AM			4.59700E+03				
2/6/25 9:57:22 AM			4.88900E+03				
2/7/25 11:14:24 AM			5.10100E+03				
2/10/25 11:57:50 AM			4.80100E+03				
2/11/25 9:02:12 AM			4.92600E+03				
2/12/25 7:43:53 PM			5.07900E+03				
2/13/25 9:25:29 AM			5.30800E+03				
2/17/25 8:36:38 AM			5.00300E+03				
2/18/25 10:45:38 AM			5.02000E+03				
2/19/25 4:30:16 PM			4.52300E+03				
2/20/25 11:57:19 AM			5.03300E+03				
2/21/25 9:17:55 AM			5.03900E+03				
2/24/25 8:57:51 AM			4.55700E+03				
2/25/25 8:26:44 AM			5.03200E+03				
2/26/25 10:03:59 AM			5.33100E+03				
2/27/25 11:26:38 AM			4.69800E+03				
2/28/25 8:58:50 AM			4.94300E+03				
3/3/25 8:58:05 AM			4.49200E+03				
3/4/25 9:01:56 AM			4.81200E+03				
3/5/25 5:51:43 PM			5.07900E+03				
3/6/25 8:47:15 AM			5.01700E+03				
3/7/25 10:20:49 AM			4.75700E+03				
3/10/25 9:40:51 AM			5.25600E+03				
3/11/25 12:11:33 PM			5.29500E+03				
3/12/25 12:03:58 PM			4.68800E+03				
3/13/25 8:52:00 AM			4.92700E+03				
3/14/25 9:34:39 AM			4.61300E+03				
3/17/25 10:56:53 AM			4.53300E+03				
3/18/25 9:34:10 AM			4.81700E+03				
3/19/25 10:00:22 AM			4.60200E+03				
3/20/25 9:23:56 AM			4.55300E+03				
3/21/25 8:58:21 AM			4.90700E+03				
3/25/25 8:56:33 AM			5.01400E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/26/25 8:19:36 AM			4.90100E+03				
3/27/25 1:25:41 PM			5.01600E+03				
3/28/25 6:55:11 PM			4.94300E+03				
3/31/25 1:00:36 PM			4.41200E+03				

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\44_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:51 AM - 3/31/25 1:00:36 PM
Sample Mean +/- Std Dev : 4875.256 +/- 2.40e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:00:59 AM

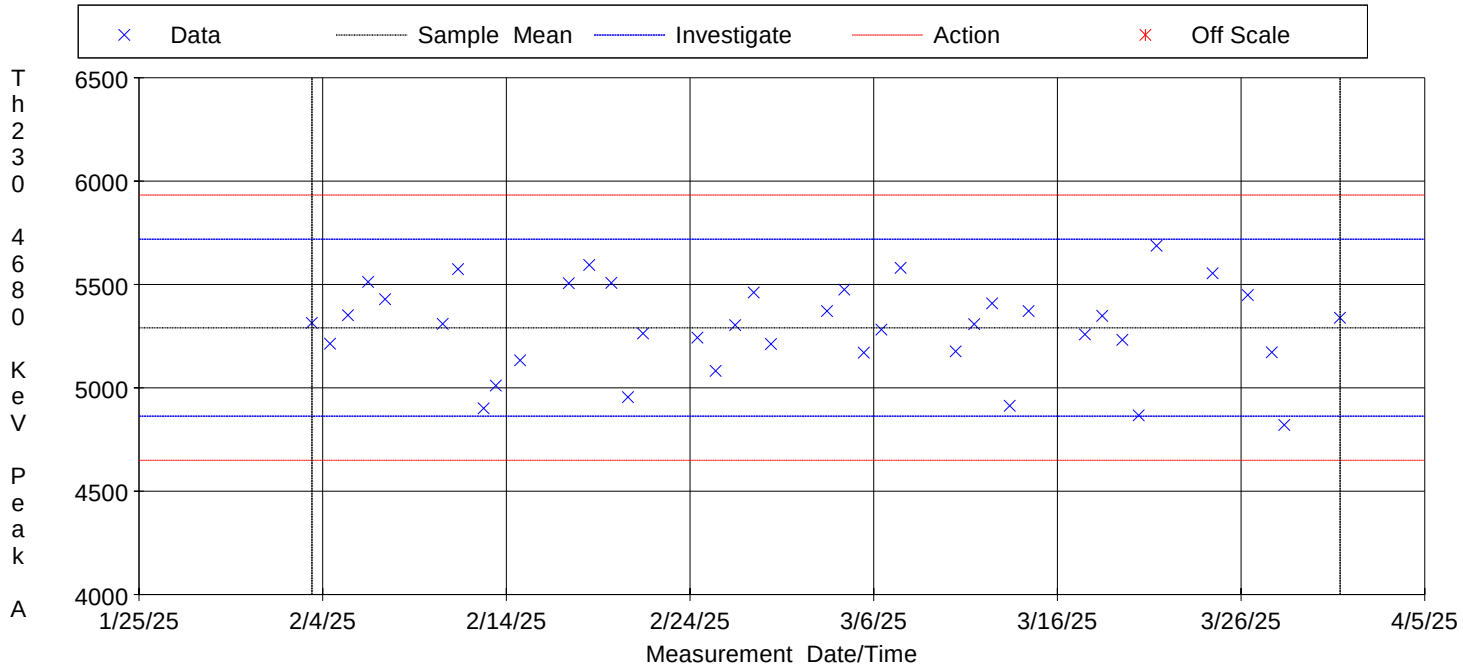
QA File: O:\alpha_sp\2025_QAF\4_April\51
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:44:17 AM
Sample End Date: 3/31/25 8:52:26 AM
Sample Mean: 5.29073E+03
Sample Std. Deviation: 2.13978E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:44:17 AM			5.31400E+03				
2/4/25 9:18:19 AM			5.21300E+03				
2/5/25 8:54:55 AM			5.35000E+03				
2/6/25 11:02:43 AM			5.51200E+03				
2/7/25 9:26:43 AM			5.42800E+03				
2/10/25 12:27:15 PM			5.30900E+03				
2/11/25 8:41:05 AM			5.57300E+03				
2/12/25 6:09:24 PM			4.90000E+03				
2/13/25 9:55:45 AM			5.01000E+03				
2/14/25 5:42:38 PM			5.13200E+03				
2/17/25 9:09:12 AM			5.50500E+03				
2/18/25 12:04:53 PM			5.59300E+03				
2/19/25 5:05:23 PM			5.50700E+03				
2/20/25 2:52:28 PM			4.95500E+03				
2/21/25 10:18:44 AM			5.26200E+03				
2/24/25 9:21:26 AM			5.24300E+03				
2/25/25 9:07:30 AM			5.08100E+03				
2/26/25 10:36:31 AM			5.30300E+03				
2/27/25 11:06:07 AM			5.46000E+03				
2/28/25 9:25:33 AM			5.21200E+03				
3/3/25 10:38:47 AM			5.37000E+03				
3/4/25 9:28:04 AM			5.47500E+03				
3/5/25 10:59:22 AM			5.16900E+03				
3/6/25 9:53:27 AM			5.28100E+03				
3/7/25 10:49:20 AM			5.57900E+03				
3/10/25 10:38:47 AM			5.17600E+03				
3/11/25 10:59:27 AM			5.30800E+03				
3/12/25 10:34:09 AM			5.40800E+03				
3/13/25 9:18:28 AM			4.91200E+03				
3/14/25 9:59:29 AM			5.37000E+03				
3/17/25 11:50:35 AM			5.25800E+03				
3/18/25 10:26:22 AM			5.34800E+03				
3/19/25 12:50:37 PM			5.23200E+03				
3/20/25 9:56:53 AM			4.86600E+03				
3/21/25 9:21:08 AM			5.68600E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:25:45 AM			5.55300E+03				
3/26/25 8:40:35 AM			5.44800E+03				
3/27/25 3:48:53 PM			5.17100E+03				
3/28/25 8:12:34 AM			4.81900E+03		In		
3/31/25 8:52:26 AM			5.33800E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\51_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:44:17 AM - 3/31/25 8:52:26 AM
Sample Mean +/- Std Dev : 5290.725 +/- 2.14e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:02:00 AM

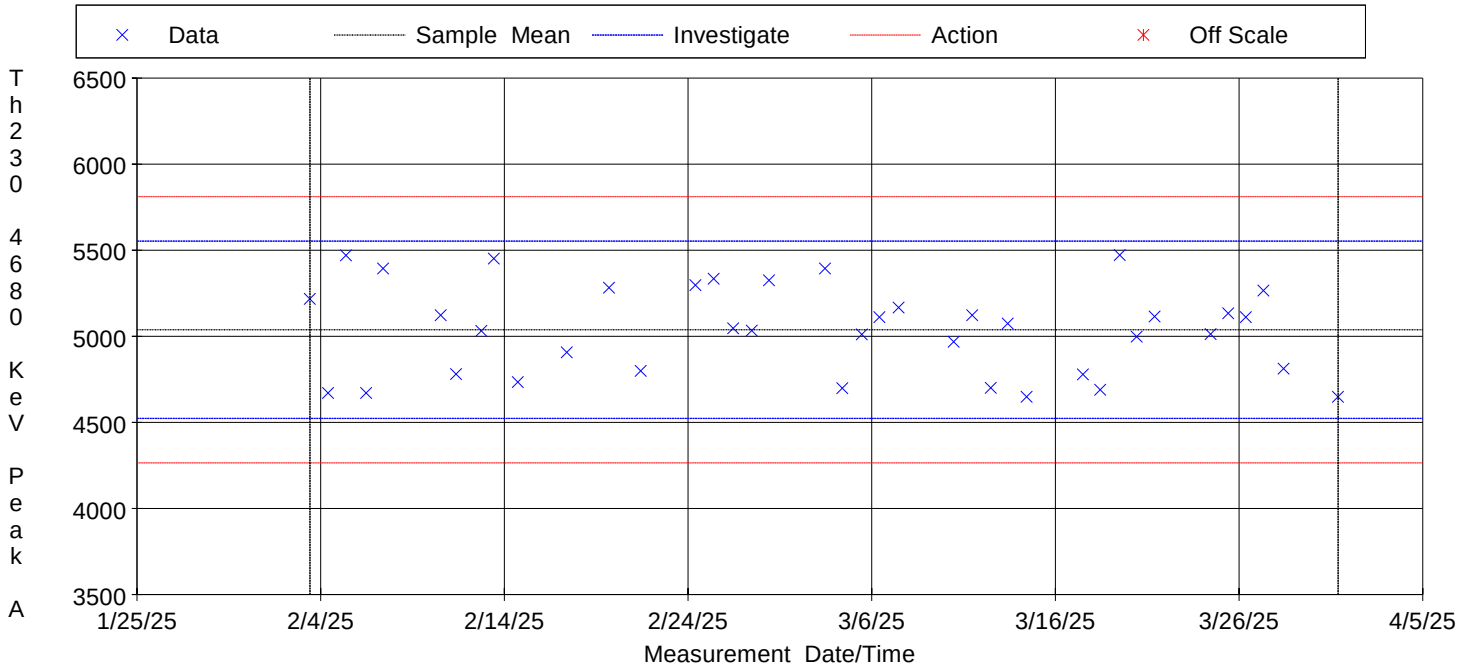
QA File: O:\alpha_sp\2025_QAF\4_April\52
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:44:26 AM
Sample End Date: 3/31/25 8:52:41 AM
Sample Mean: 5.03774E+03
Sample Std. Deviation: 2.57593E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:44:26 AM			5.21700E+03				
2/4/25 9:18:26 AM			4.67100E+03				
2/5/25 8:54:58 AM			5.47000E+03				
2/6/25 11:02:56 AM			4.67100E+03				
2/7/25 9:27:00 AM			5.39300E+03				
2/10/25 12:27:29 PM			5.12100E+03				
2/11/25 8:41:28 AM			4.77900E+03				
2/12/25 5:39:22 PM			5.03100E+03				
2/13/25 9:55:48 AM			5.45100E+03				
2/14/25 5:10:12 PM			4.73300E+03				
2/17/25 9:09:26 AM			4.90700E+03				
2/19/25 4:29:57 PM			5.28200E+03				
2/21/25 9:52:45 AM			4.79800E+03				
2/24/25 9:26:58 AM			5.29600E+03				
2/25/25 9:07:48 AM			5.33400E+03				
2/26/25 10:36:39 AM			5.04500E+03				
2/27/25 10:55:10 AM			5.03200E+03				
2/28/25 9:25:37 AM			5.32400E+03				
3/3/25 10:38:51 AM			5.39300E+03				
3/4/25 9:28:18 AM			4.69800E+03				
3/5/25 10:59:26 AM			5.01000E+03				
3/6/25 9:42:14 AM			5.11100E+03				
3/7/25 10:49:31 AM			5.16700E+03				
3/10/25 10:38:58 AM			4.96700E+03				
3/11/25 10:59:43 AM			5.12200E+03				
3/12/25 11:08:03 AM			4.70000E+03				
3/13/25 9:18:32 AM			5.07300E+03				
3/14/25 9:59:33 AM			4.64800E+03				
3/17/25 11:50:51 AM			4.77700E+03				
3/18/25 10:26:25 AM			4.68900E+03				
3/19/25 11:40:08 AM			5.47100E+03				
3/20/25 9:57:09 AM			4.99700E+03				
3/21/25 9:21:18 AM			5.11400E+03				
3/24/25 10:26:04 AM			5.01200E+03				
3/25/25 9:28:56 AM			5.13300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/26/25 8:40:40 AM			5.11100E+03				
3/27/25 7:39:21 AM			5.26500E+03				
3/28/25 9:44:43 AM			4.81200E+03				
3/31/25 8:52:41 AM			4.64700E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\52_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:44:26 AM - 3/31/25 8:52:41 AM
Sample Mean +/- Std Dev : 5037.744 +/- 2.58e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:03:09 AM

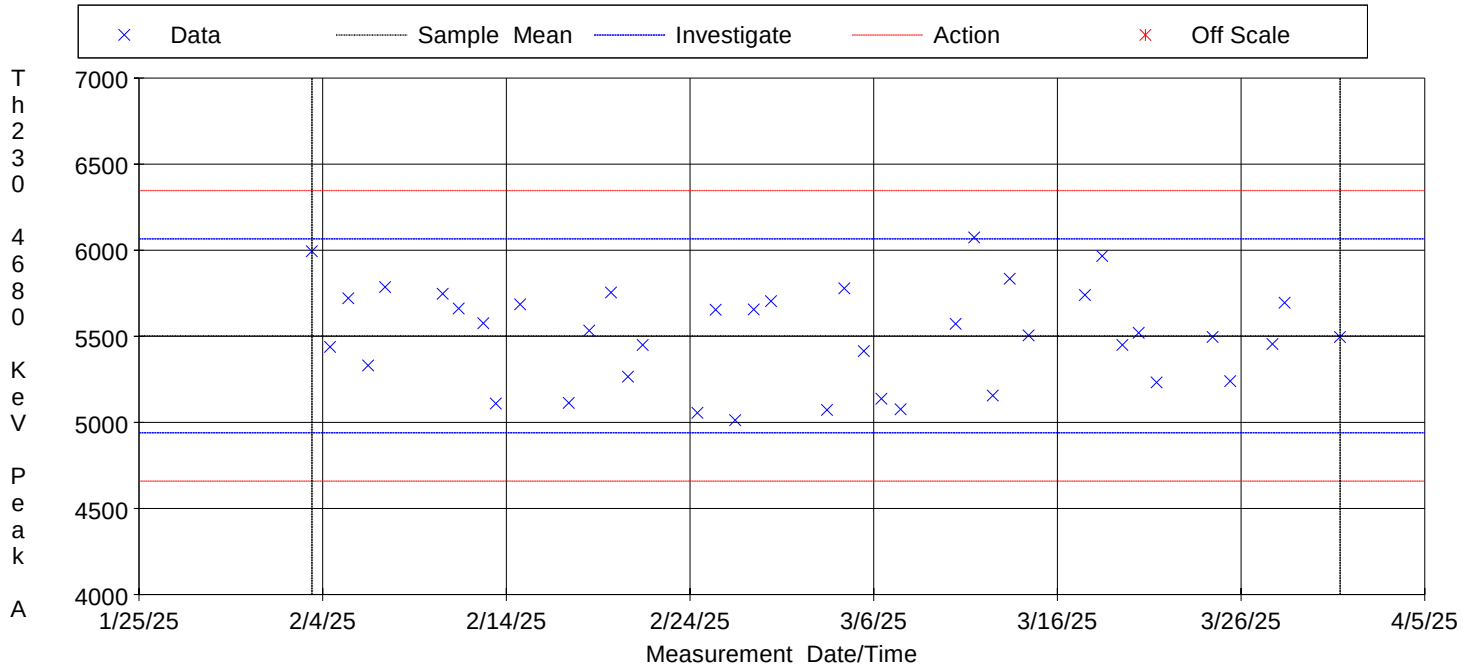
QA File: O:\alpha_sp\2025_QAF\4_April\55
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:44:39 AM
Sample End Date: 3/31/25 8:52:58 AM
Sample Mean: 5.50320E+03
Sample Std. Deviation: 2.81349E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:44:39 AM			5.99300E+03				
2/4/25 9:18:30 AM			5.43700E+03				
2/5/25 9:17:17 AM			5.72000E+03				
2/6/25 11:03:07 AM			5.32900E+03				
2/7/25 9:27:10 AM			5.78500E+03				
2/10/25 12:37:12 PM			5.74700E+03				
2/11/25 9:24:39 AM			5.66000E+03				
2/12/25 5:39:24 PM			5.57600E+03				
2/13/25 9:56:01 AM			5.10800E+03				
2/14/25 5:55:12 PM			5.68500E+03				
2/17/25 9:09:29 AM			5.11300E+03				
2/18/25 12:05:34 PM			5.53300E+03				
2/19/25 4:39:19 PM			5.75400E+03				
2/20/25 2:40:09 PM			5.26400E+03				
2/21/25 9:52:50 AM			5.44800E+03				
2/24/25 9:27:07 AM			5.05400E+03				
2/25/25 9:07:57 AM			5.65300E+03				
2/26/25 10:36:43 AM			5.01200E+03				
2/27/25 10:55:17 AM			5.65500E+03				
2/28/25 9:25:43 AM			5.70300E+03				
3/3/25 10:38:57 AM			5.07200E+03				
3/4/25 9:28:23 AM			5.77800E+03				
3/5/25 10:59:30 AM			5.41300E+03				
3/6/25 9:42:32 AM			5.13600E+03				
3/7/25 10:49:37 AM			5.07600E+03				
3/10/25 10:39:02 AM			5.57200E+03				
3/11/25 11:00:02 AM			6.07400E+03		In		
3/12/25 11:08:23 AM			5.15600E+03				
3/13/25 9:18:36 AM			5.83400E+03				
3/14/25 9:59:45 AM			5.50400E+03				
3/17/25 11:51:07 AM			5.73800E+03				
3/18/25 10:26:39 AM			5.96600E+03				
3/19/25 12:51:09 PM			5.44800E+03				
3/20/25 9:57:27 AM			5.52000E+03				
3/21/25 9:21:29 AM			5.23200E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:26:39 AM			5.49600E+03				
3/25/25 9:29:18 AM			5.23900E+03				
3/27/25 4:49:31 PM			5.45400E+03				
3/28/25 8:36:11 AM			5.69500E+03				
3/31/25 8:52:58 AM			5.49600E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\55_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:44:39 AM - 3/31/25 8:52:58 AM
Sample Mean +/- Std Dev : 5503.200 +/- 2.81e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:04:11 AM

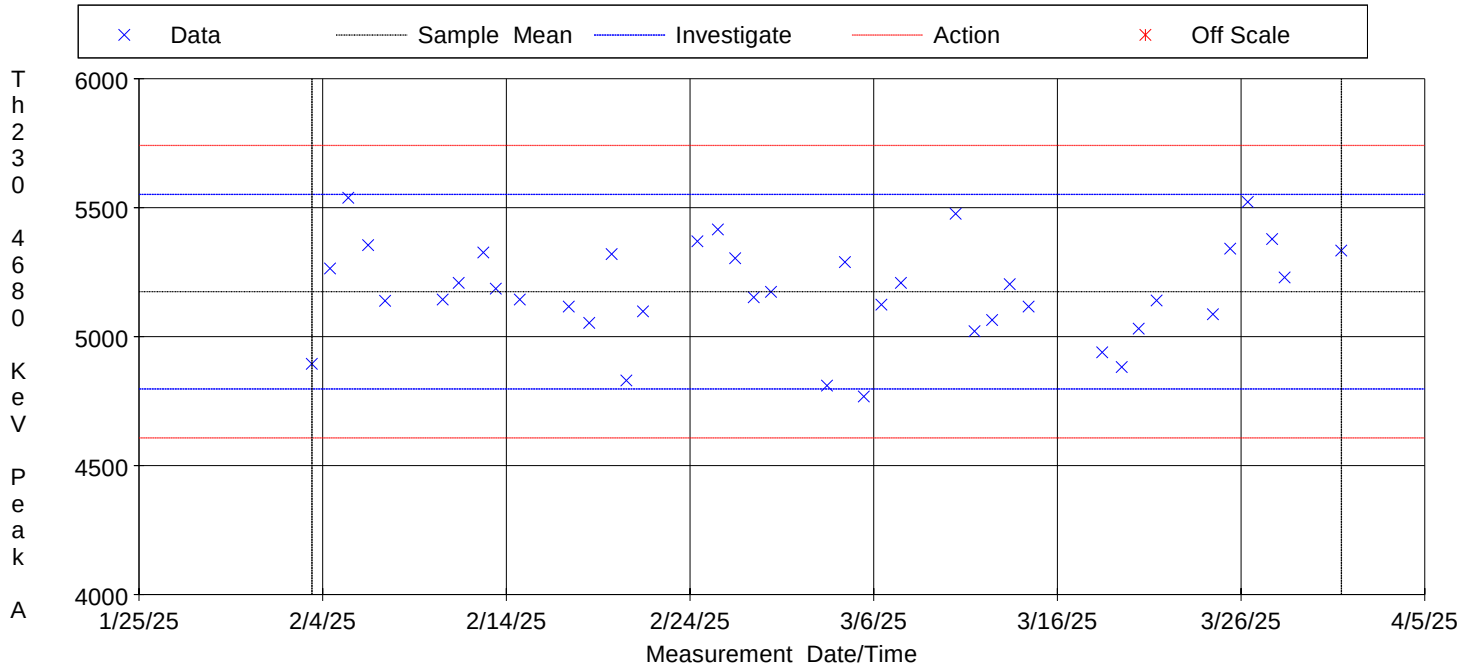
QA File: O:\alpha_sp\2025_QAF\4_April\56
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:44:14 AM
Sample End Date: 3/31/25 10:41:22 AM
Sample Mean: 5.17442E+03
Sample Std. Deviation: 1.88835E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:44:14 AM			4.89400E+03				
2/4/25 9:18:44 AM			5.26400E+03				
2/5/25 9:17:35 AM			5.53800E+03				
2/6/25 11:03:17 AM			5.35400E+03				
2/7/25 9:27:23 AM			5.13800E+03				
2/10/25 12:37:36 PM			5.14300E+03				
2/11/25 9:24:43 AM			5.20800E+03				
2/12/25 5:39:25 PM			5.32600E+03				
2/13/25 9:56:13 AM			5.18600E+03				
2/14/25 5:16:04 PM			5.14300E+03				
2/17/25 9:09:45 AM			5.11600E+03				
2/18/25 12:05:50 PM			5.05300E+03				
2/19/25 5:31:09 PM			5.32000E+03				
2/20/25 12:28:03 PM			4.83000E+03				
2/21/25 10:19:46 AM			5.09800E+03				
2/24/25 9:27:13 AM			5.36900E+03				
2/25/25 12:06:01 PM			5.41500E+03				
2/26/25 10:37:04 AM			5.30300E+03				
2/27/25 10:55:45 AM			5.15200E+03				
2/28/25 9:26:03 AM			5.17300E+03				
3/3/25 10:39:26 AM			4.81000E+03				
3/4/25 10:02:52 AM			5.28800E+03				
3/5/25 10:59:49 AM			4.76700E+03		In		
3/6/25 9:42:48 AM			5.12300E+03				
3/7/25 11:17:10 AM			5.20800E+03				
3/10/25 10:39:26 AM			5.47600E+03				
3/11/25 11:41:56 AM			5.02000E+03				
3/12/25 10:34:24 AM			5.06400E+03				
3/13/25 9:18:49 AM			5.20300E+03				
3/14/25 10:00:03 AM			5.11600E+03				
3/18/25 10:27:04 AM			4.93800E+03				
3/19/25 11:40:37 AM			4.88200E+03				
3/20/25 9:57:36 AM			5.03100E+03				
3/21/25 9:21:42 AM			5.14000E+03				
3/24/25 10:48:02 AM			5.08600E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:29:21 AM			5.34000E+03				
3/26/25 8:41:24 AM			5.52200E+03				
3/27/25 4:22:01 PM			5.37800E+03				
3/28/25 8:35:17 AM			5.22900E+03				
3/31/25 10:41:22 AM			5.33300E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\56_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:44:14 AM - 3/31/25 10:41:22 AM
Sample Mean +/- Std Dev : 5174.425 +/- 1.89e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

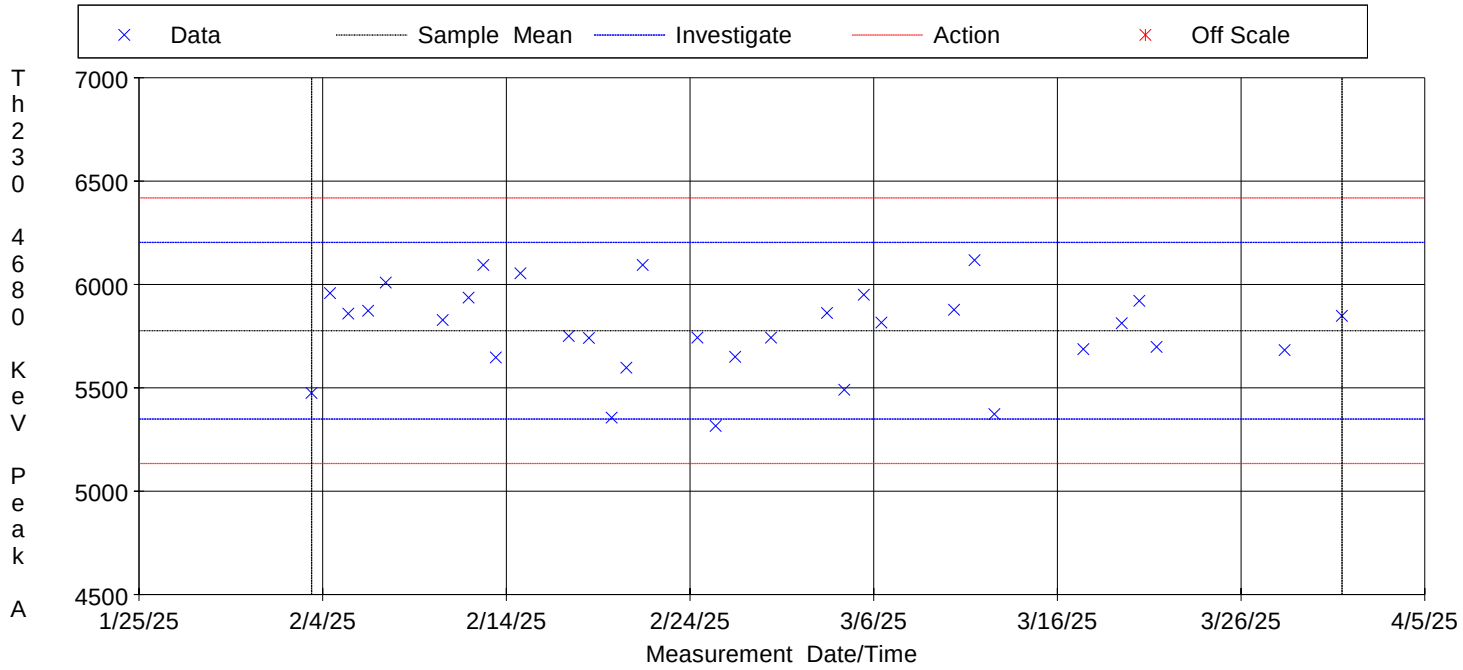
Full Parameter Results Report
4/2/25 11:05:19 AM

QA File: O:\alpha_sp\2025_QAF\4_April\57
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:14:48 AM
Sample End Date: 3/31/25 11:31:30 AM
Sample Mean: 5.77638E+03
Sample Std. Deviation: 2.13956E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:14:48 AM			5.47500E+03				
2/4/25 9:16:45 AM			5.95800E+03				
2/5/25 9:15:31 AM			5.85800E+03				
2/6/25 11:10:49 AM			5.87300E+03				
2/7/25 10:14:56 AM			6.00900E+03				
2/10/25 12:25:53 PM			5.82800E+03				
2/11/25 10:29:12 PM			5.93500E+03				
2/12/25 5:46:39 PM			6.09300E+03				
2/13/25 9:54:24 AM			5.64600E+03				
2/14/25 6:16:19 PM			6.05400E+03				
2/17/25 9:10:03 AM			5.75000E+03				
2/18/25 11:47:11 AM			5.74000E+03				
2/19/25 5:26:10 PM			5.35600E+03				
2/20/25 12:26:01 PM			5.59700E+03				
2/21/25 9:54:47 AM			6.09300E+03				
2/24/25 9:24:56 AM			5.74200E+03				
2/25/25 9:08:07 AM			5.31500E+03	In			
2/26/25 10:35:09 AM			5.65000E+03				
2/28/25 9:22:56 AM			5.74200E+03				
3/3/25 10:47:12 AM			5.86200E+03				
3/4/25 9:26:00 AM			5.49000E+03				
3/5/25 10:58:03 AM			5.94900E+03				
3/6/25 9:40:11 AM			5.81500E+03				
3/10/25 8:54:48 AM			5.87700E+03				
3/11/25 11:40:26 AM			6.11700E+03				
3/12/25 1:23:53 PM			5.37200E+03				
3/17/25 9:42:31 AM			5.68700E+03				
3/19/25 11:40:57 AM			5.81200E+03				
3/20/25 11:01:29 AM			5.92100E+03				
3/21/25 9:19:33 AM			5.69800E+03				
3/28/25 8:46:31 AM			5.68200E+03				
3/31/25 11:31:30 AM			5.84800E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\57_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:14:48 AM - 3/31/25 11:31:30 AM
Sample Mean +/- Std Dev : 5776.375 +/- 2.14e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:06:29 AM

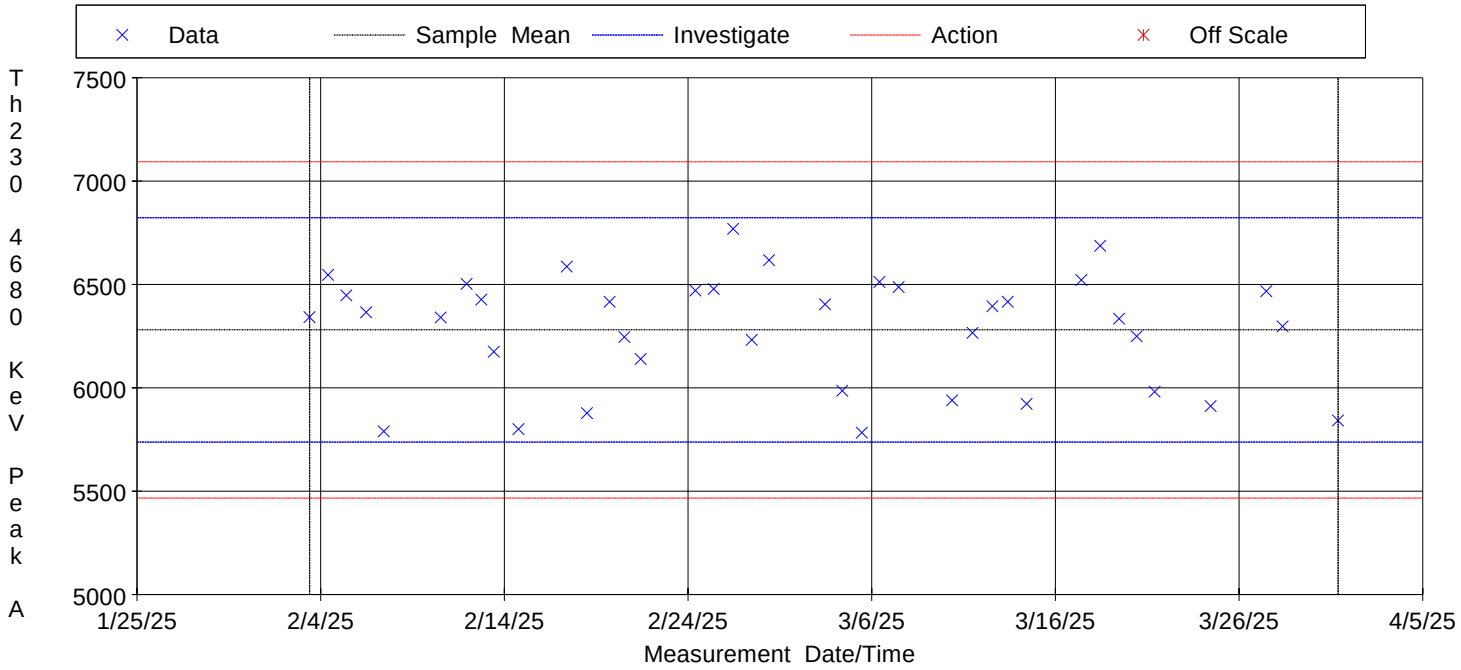
QA File: O:\alpha_sp\2025_QAF\4_April\58
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:17:24 AM
Sample End Date: 3/31/25 8:53:05 AM
Sample Mean: 6.28069E+03
Sample Std. Deviation: 2.71153E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:17:24 AM			6.34200E+03				
2/4/25 9:16:48 AM			6.54500E+03				
2/5/25 9:15:36 AM			6.44600E+03				
2/6/25 11:10:53 AM			6.36500E+03				
2/7/25 10:14:59 AM			5.78900E+03				
2/10/25 12:25:56 PM			6.34000E+03				
2/11/25 10:23:25 PM			6.50300E+03				
2/12/25 5:39:36 PM			6.42600E+03				
2/13/25 9:54:29 AM			6.17400E+03				
2/14/25 6:15:28 PM			5.80000E+03				
2/17/25 9:10:07 AM			6.58600E+03				
2/18/25 11:45:12 AM			5.87700E+03				
2/19/25 5:24:37 PM			6.41500E+03				
2/20/25 12:26:05 PM			6.24500E+03				
2/21/25 9:53:18 AM			6.13800E+03				
2/24/25 9:25:00 AM			6.47000E+03				
2/25/25 9:08:11 AM			6.47700E+03				
2/26/25 10:35:10 AM			6.76800E+03				
2/27/25 10:57:02 AM			6.23200E+03				
2/28/25 9:23:01 AM			6.61700E+03				
3/3/25 10:36:15 AM			6.40400E+03				
3/4/25 9:26:06 AM			5.98500E+03				
3/5/25 10:58:11 AM			5.78200E+03				
3/6/25 9:40:12 AM			6.51200E+03				
3/7/25 10:50:32 AM			6.48700E+03				
3/10/25 8:54:52 AM			5.93900E+03				
3/11/25 11:40:29 AM			6.26600E+03				
3/12/25 1:23:55 PM			6.39400E+03				
3/13/25 9:19:35 AM			6.41600E+03				
3/14/25 10:00:27 AM			5.92200E+03				
3/17/25 9:42:35 AM			6.52100E+03				
3/18/25 10:27:30 AM			6.68600E+03				
3/19/25 11:06:00 AM			6.33400E+03				
3/20/25 9:54:59 AM			6.24900E+03				
3/21/25 9:19:28 AM			5.98100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:23:22 AM			5.91100E+03				
3/27/25 11:11:16 AM			6.46600E+03				
3/28/25 8:45:21 AM			6.29600E+03				
3/31/25 8:53:05 AM			5.84100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\58_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:17:24 AM - 3/31/25 8:53:05 AM
Sample Mean +/- Std Dev : 6280.692 +/- 2.71e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:07:14 AM

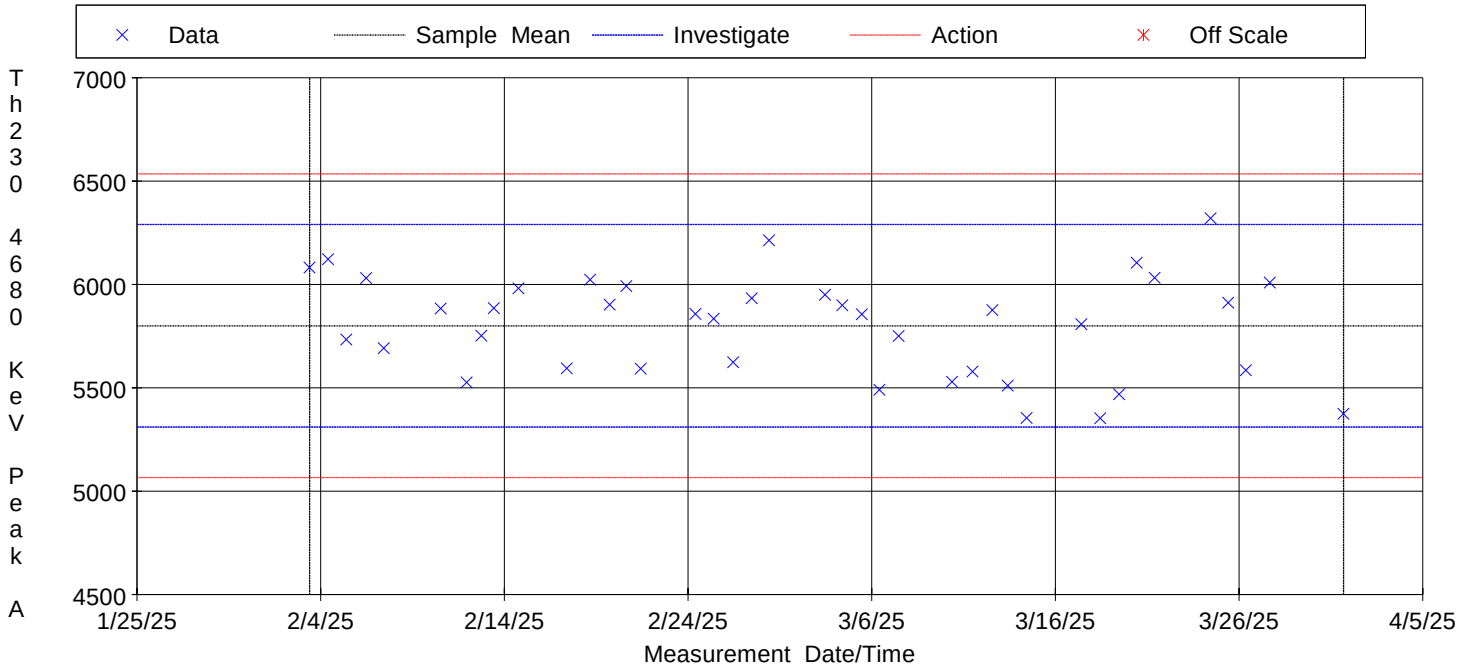
QA File: O:\alpha_sp\2025_QAF\4_April\61
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:17:58 AM
Sample End Date: 3/31/25 4:04:15 PM
Sample Mean: 5.79980E+03
Sample Std. Deviation: 2.44874E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:17:58 AM			6.08100E+03				
2/4/25 9:16:57 AM			6.12100E+03				
2/5/25 9:16:01 AM			5.73300E+03				
2/6/25 11:10:56 AM			6.03000E+03				
2/7/25 10:15:04 AM			5.69100E+03				
2/10/25 12:25:59 PM			5.88300E+03				
2/11/25 10:23:27 PM			5.52600E+03				
2/12/25 5:39:38 PM			5.75200E+03				
2/13/25 9:54:43 AM			5.88400E+03				
2/14/25 6:17:17 PM			5.98100E+03				
2/17/25 9:10:30 AM			5.59400E+03				
2/18/25 3:53:06 PM			6.02200E+03				
2/19/25 5:27:33 PM			5.90200E+03				
2/20/25 3:02:20 PM			5.99200E+03				
2/21/25 9:53:21 AM			5.59200E+03				
2/24/25 9:25:04 AM			5.85700E+03				
2/25/25 9:08:34 AM			5.83400E+03				
2/26/25 10:35:13 AM			5.62300E+03				
2/27/25 11:08:31 AM			5.93300E+03				
2/28/25 9:25:17 AM			6.21300E+03				
3/3/25 10:36:56 AM			5.95000E+03				
3/4/25 9:26:45 AM			5.89800E+03				
3/5/25 10:58:34 AM			5.85600E+03				
3/6/25 9:40:16 AM			5.49000E+03				
3/7/25 10:50:38 AM			5.75000E+03				
3/10/25 8:55:01 AM			5.52900E+03				
3/11/25 11:40:33 AM			5.57800E+03				
3/12/25 1:23:59 PM			5.87500E+03				
3/13/25 9:19:55 AM			5.51000E+03				
3/14/25 10:00:45 AM			5.35300E+03				
3/17/25 9:42:49 AM			5.80700E+03				
3/18/25 10:27:43 AM			5.35200E+03				
3/19/25 11:06:23 AM			5.46800E+03				
3/20/25 9:55:20 AM			6.10400E+03				
3/21/25 9:19:58 AM			6.03100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:23:29 AM			6.32000E+03		In		
3/25/25 9:30:51 AM			5.91100E+03				
3/26/25 8:38:43 AM			5.58400E+03				
3/27/25 3:49:53 PM			6.00800E+03				
3/31/25 4:04:15 PM			5.37400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\61_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:17:58 AM - 3/31/25 4:04:15 PM
Sample Mean +/- Std Dev : 5799.800 +/- 2.45e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:08:14 AM

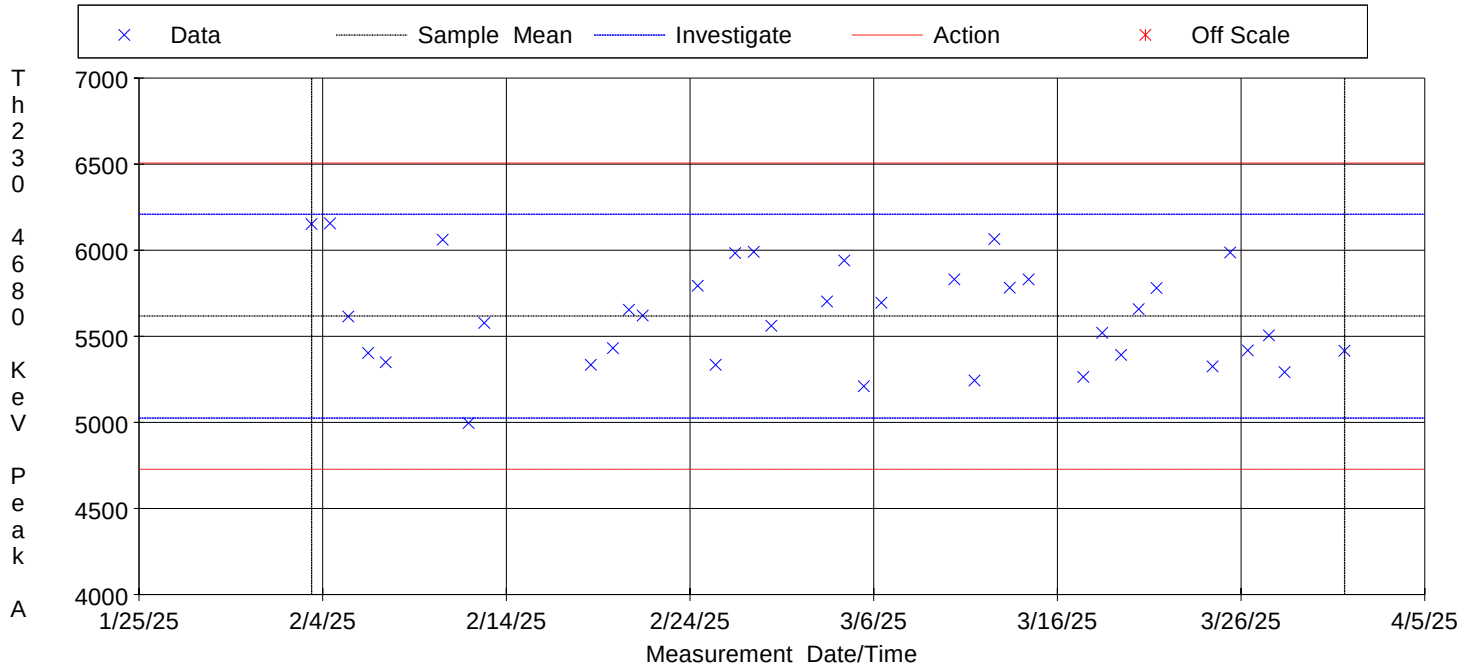
QA File: O:\alpha_sp\2025_QAF\4_April\62
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:18:10 AM
Sample End Date: 3/31/25 3:00:01 PM
Sample Mean: 5.61727E+03
Sample Std. Deviation: 2.96242E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:18:10 AM			6.15200E+03				
2/4/25 9:17:01 AM			6.15500E+03				
2/5/25 9:16:26 AM			5.61500E+03				
2/6/25 11:11:32 AM			5.40200E+03				
2/7/25 10:15:43 AM			5.34800E+03				
2/10/25 12:26:22 PM			6.06100E+03				
2/11/25 10:26:14 PM			4.99500E+03		In		
2/12/25 7:08:02 PM			5.57800E+03				
2/18/25 2:19:25 PM			5.33300E+03				
2/19/25 7:02:22 PM			5.43100E+03				
2/20/25 3:45:35 PM			5.65400E+03				
2/21/25 9:53:40 AM			5.61900E+03				
2/24/25 9:40:03 AM			5.79300E+03				
2/25/25 9:09:01 AM			5.33300E+03				
2/26/25 10:55:43 AM			5.98300E+03				
2/27/25 11:08:54 AM			5.98900E+03				
2/28/25 9:47:25 AM			5.56000E+03				
3/3/25 10:37:08 AM			5.70100E+03				
3/4/25 9:26:52 AM			5.93900E+03				
3/5/25 10:58:45 AM			5.21000E+03				
3/6/25 9:40:41 AM			5.69500E+03				
3/10/25 9:18:23 AM			5.83000E+03				
3/11/25 11:40:53 AM			5.24200E+03				
3/12/25 1:24:01 PM			6.06400E+03				
3/13/25 9:20:09 AM			5.78100E+03				
3/14/25 10:01:29 AM			5.82900E+03				
3/17/25 9:43:16 AM			5.26300E+03				
3/18/25 10:27:58 AM			5.52000E+03				
3/19/25 11:06:37 AM			5.39100E+03				
3/20/25 9:55:30 AM			5.65700E+03				
3/21/25 9:20:04 AM			5.77900E+03				
3/24/25 10:23:33 AM			5.32500E+03				
3/25/25 9:30:54 AM			5.98600E+03				
3/26/25 8:38:49 AM			5.41700E+03				
3/27/25 11:58:53 AM			5.50400E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/28/25 8:49:43 AM			5.29000E+03				
3/31/25 3:00:01 PM			5.41500E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\62_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:18:10 AM - 3/31/25 3:00:01 PM
Sample Mean +/- Std Dev : 5617.271 +/- 2.96e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:09:33 AM

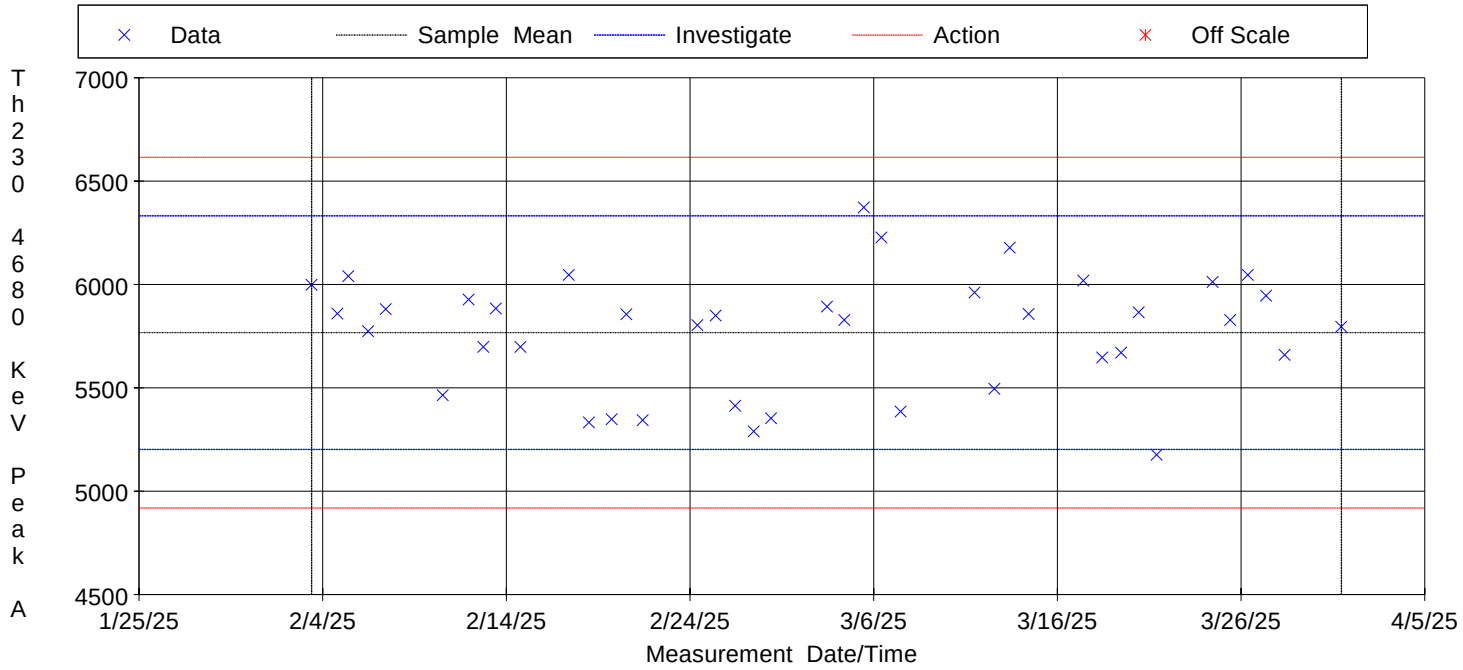
QA File: O:\alpha_sp\2025_QAF\4_April\65
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:18:14 AM
Sample End Date: 3/31/25 10:37:52 AM
Sample Mean: 5.76735E+03
Sample Std. Deviation: 2.82721E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:18:14 AM			5.99700E+03				
2/4/25 7:05:00 PM			5.85800E+03				
2/5/25 9:16:28 AM			6.03900E+03				
2/6/25 11:11:43 AM			5.77300E+03				
2/7/25 10:15:44 AM			5.88000E+03				
2/10/25 12:26:26 PM			5.46400E+03				
2/11/25 10:23:30 PM			5.92600E+03				
2/12/25 5:39:41 PM			5.69700E+03				
2/13/25 9:55:01 AM			5.88300E+03				
2/14/25 6:15:32 PM			5.69800E+03				
2/17/25 9:11:02 AM			6.04500E+03				
2/18/25 11:45:59 AM			5.33200E+03				
2/19/25 5:24:42 PM			5.34700E+03				
2/20/25 12:26:34 PM			5.85600E+03				
2/21/25 9:53:58 AM			5.34300E+03				
2/24/25 9:25:44 AM			5.80200E+03				
2/25/25 9:09:04 AM			5.84900E+03				
2/26/25 10:35:39 AM			5.41200E+03				
2/27/25 10:57:58 AM			5.28900E+03				
2/28/25 9:23:48 AM			5.35200E+03				
3/3/25 10:37:13 AM			5.89300E+03				
3/4/25 9:26:58 AM			5.82800E+03				
3/5/25 10:58:47 AM			6.37200E+03		In		
3/6/25 9:40:44 AM			6.22700E+03				
3/7/25 10:50:46 AM			5.38400E+03				
3/11/25 11:40:55 AM			5.96000E+03				
3/12/25 1:24:04 PM			5.49400E+03				
3/13/25 9:20:12 AM			6.17800E+03				
3/14/25 10:01:32 AM			5.85700E+03				
3/17/25 9:43:18 AM			6.01800E+03				
3/18/25 10:28:07 AM			5.64700E+03				
3/19/25 11:06:41 AM			5.67000E+03				
3/20/25 9:55:35 AM			5.86500E+03				
3/21/25 9:20:08 AM			5.17600E+03		In		
3/24/25 10:23:39 AM			6.01100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:30:59 AM			5.82800E+03				
3/26/25 8:38:59 AM			6.04600E+03				
3/27/25 8:15:03 AM			5.94500E+03				
3/28/25 8:45:27 AM			5.65800E+03				
3/31/25 10:37:52 AM			5.79500E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\65_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:18:14 AM - 3/31/25 10:37:52 AM
Sample Mean +/- Std Dev : 5767.350 +/- 2.83e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:10:56 AM

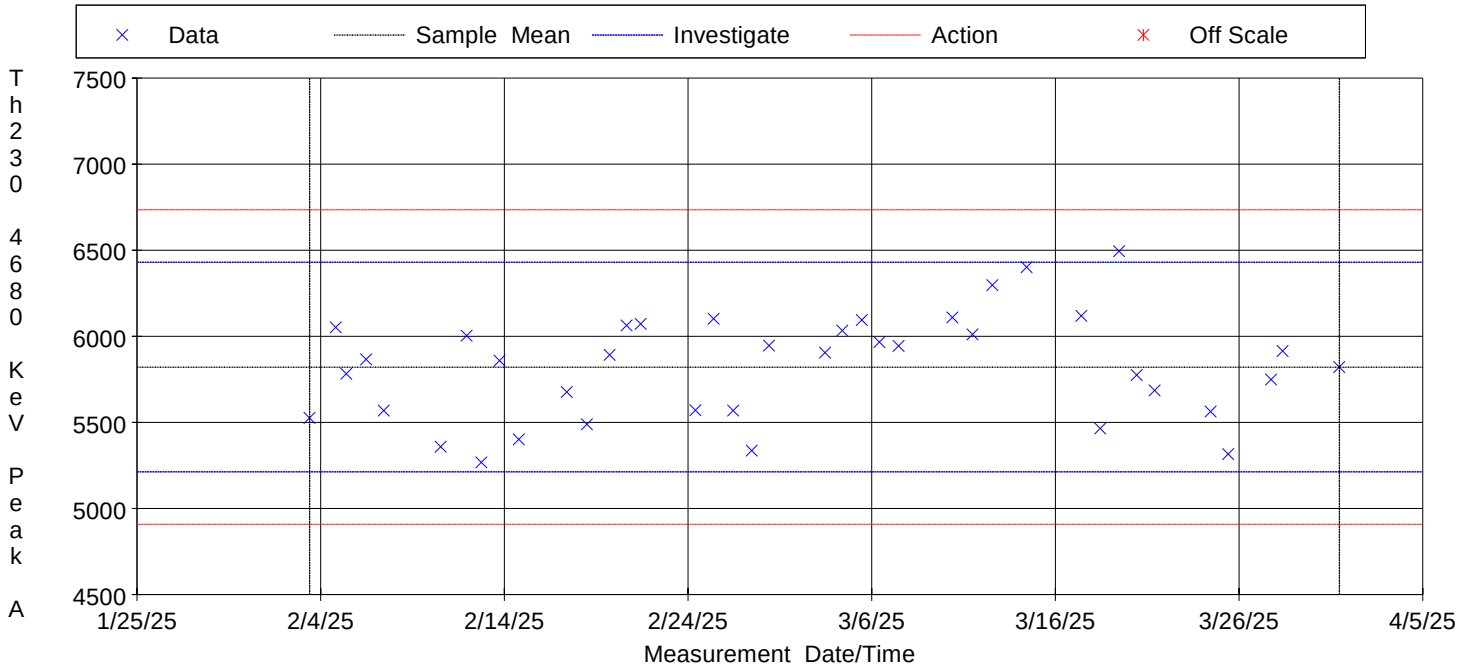
QA File: O:\alpha_sp\2025_QAF\4_April\66
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:18:18 AM
Sample End Date: 3/31/25 10:39:56 AM
Sample Mean: 5.82128E+03
Sample Std. Deviation: 3.04553E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:18:18 AM			5.52600E+03				
2/4/25 7:38:47 PM			6.05100E+03				
2/5/25 9:16:44 AM			5.78100E+03				
2/6/25 11:11:59 AM			5.86500E+03				
2/7/25 10:15:47 AM			5.56700E+03				
2/10/25 12:26:39 PM			5.35800E+03				
2/11/25 10:27:52 PM			6.00200E+03				
2/12/25 5:45:03 PM			5.26700E+03				
2/13/25 5:22:24 PM			5.85800E+03				
2/14/25 6:30:07 PM			5.40000E+03				
2/17/25 9:11:31 AM			5.67500E+03				
2/18/25 11:46:16 AM			5.48700E+03				
2/19/25 5:29:08 PM			5.89100E+03				
2/20/25 3:38:12 PM			6.06200E+03				
2/21/25 9:54:16 AM			6.07200E+03				
2/24/25 9:25:56 AM			5.56900E+03				
2/25/25 9:09:25 AM			6.10200E+03				
2/26/25 10:36:06 AM			5.56700E+03				
2/27/25 11:10:19 AM			5.33500E+03				
2/28/25 9:24:43 AM			5.94500E+03				
3/3/25 10:37:38 AM			5.90500E+03				
3/4/25 9:27:34 AM			6.03200E+03				
3/5/25 10:58:52 AM			6.09300E+03				
3/6/25 9:41:04 AM			5.96600E+03				
3/7/25 10:50:58 AM			5.94400E+03				
3/10/25 9:19:06 AM			6.10800E+03				
3/11/25 11:41:10 AM			6.01000E+03				
3/12/25 1:24:07 PM			6.29700E+03				
3/14/25 10:01:40 AM			6.40000E+03				
3/17/25 9:43:34 AM			6.11800E+03				
3/18/25 10:28:09 AM			5.46400E+03				
3/19/25 11:06:58 AM			6.49300E+03		In		
3/20/25 9:56:01 AM			5.77500E+03				
3/21/25 9:20:27 AM			5.68500E+03				
3/24/25 10:24:24 AM			5.56200E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:31:10 AM			5.31500E+03				
3/27/25 5:27:25 PM			5.74800E+03				
3/28/25 8:47:19 AM			5.91400E+03				
3/31/25 10:39:56 AM			5.82100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\66_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:18:18 AM - 3/31/25 10:39:56 AM
Sample Mean +/- Std Dev : 5821.282 +/- 3.05e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:11:50 AM

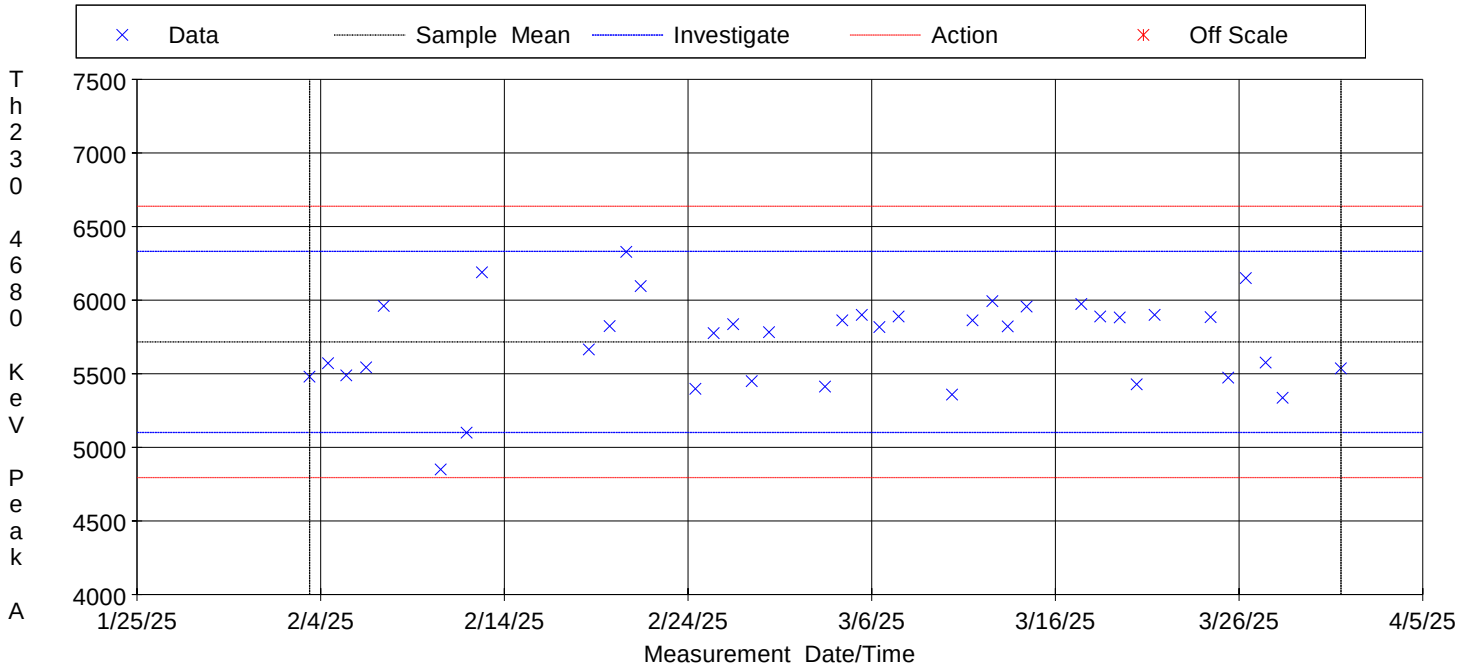
QA File: O:\alpha_sp\2025_QAF\4_April\67
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:18:37 AM
Sample End Date: 3/31/25 12:38:47 PM
Sample Mean: 5.71597E+03
Sample Std. Deviation: 3.07351E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:18:37 AM			5.47900E+03				
2/4/25 9:18:11 AM			5.57000E+03				
2/5/25 9:16:48 AM			5.48900E+03				
2/6/25 11:12:14 AM			5.54200E+03				
2/7/25 10:15:50 AM			5.95900E+03				
2/10/25 12:26:59 PM			4.84800E+03		In		
2/11/25 10:28:13 PM			5.10000E+03		In		
2/12/25 6:30:30 PM			6.18700E+03				
2/18/25 2:20:50 PM			5.66400E+03				
2/19/25 5:29:58 PM			5.82200E+03				
2/20/25 3:09:43 PM			6.32700E+03				
2/21/25 9:54:18 AM			6.09500E+03				
2/24/25 9:26:01 AM			5.39600E+03				
2/25/25 9:09:29 AM			5.77500E+03				
2/26/25 10:36:22 AM			5.83500E+03				
2/27/25 10:58:45 AM			5.44900E+03				
2/28/25 9:24:44 AM			5.78200E+03				
3/3/25 10:38:03 AM			5.41300E+03				
3/4/25 9:27:47 AM			5.86200E+03				
3/5/25 10:59:03 AM			5.89900E+03				
3/6/25 9:41:07 AM			5.81700E+03				
3/7/25 10:51:10 AM			5.88900E+03				
3/10/25 8:55:59 AM			5.35700E+03				
3/11/25 11:41:12 AM			5.86300E+03				
3/12/25 1:24:13 PM			5.99300E+03				
3/13/25 9:20:41 AM			5.82000E+03				
3/14/25 10:01:53 AM			5.95600E+03				
3/17/25 9:43:52 AM			5.97300E+03				
3/18/25 10:28:15 AM			5.88700E+03				
3/19/25 11:41:33 AM			5.88100E+03				
3/20/25 9:56:10 AM			5.42700E+03				
3/21/25 9:20:45 AM			5.89900E+03				
3/24/25 10:24:49 AM			5.88400E+03				
3/25/25 9:31:24 AM			5.47200E+03				
3/26/25 8:39:54 AM			6.15000E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/27/25 10:31:38 AM			5.57600E+03				
3/28/25 8:49:13 AM			5.33500E+03				
3/31/25 12:38:47 PM			5.53500E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\67_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:18:37 AM - 3/31/25 12:38:47 PM
Sample Mean +/- Std Dev : 5715.974 +/- 3.07e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:12:54 AM

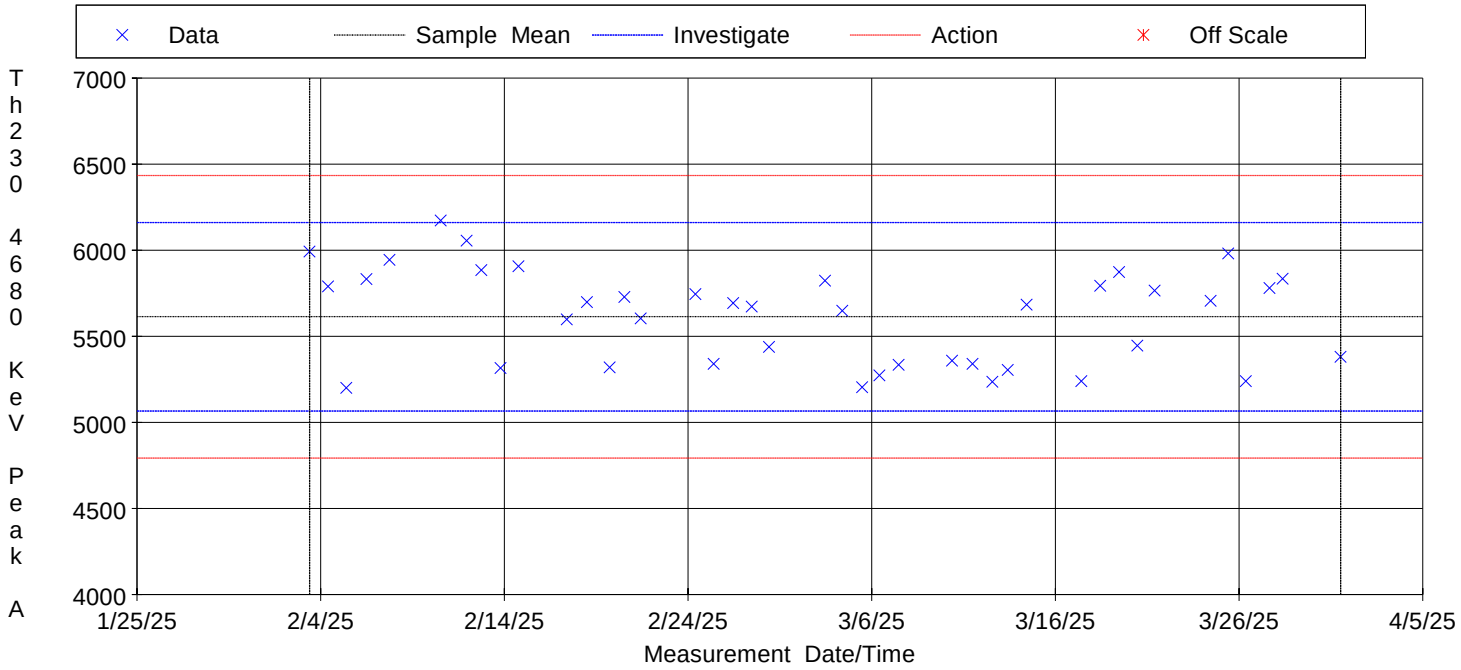
QA File: O:\alpha_sp\2025_QAF\4_April\68
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:18:42 AM
Sample End Date: 3/31/25 12:27:06 PM
Sample Mean: 5.61344E+03
Sample Std. Deviation: 2.73422E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:18:42 AM			5.99200E+03				
2/4/25 9:17:21 AM			5.78900E+03				
2/5/25 9:17:00 AM			5.20000E+03				
2/6/25 11:31:04 AM			5.83200E+03				
2/7/25 5:28:57 PM			5.94400E+03				
2/10/25 12:27:03 PM			6.17200E+03	In			
2/11/25 10:28:30 PM			6.05400E+03				
2/12/25 5:46:04 PM			5.88300E+03				
2/13/25 6:44:33 PM			5.31500E+03				
2/14/25 6:23:47 PM			5.90700E+03				
2/17/25 9:11:53 AM			5.59800E+03				
2/18/25 11:46:52 AM			5.69800E+03				
2/19/25 5:30:33 PM			5.31800E+03				
2/20/25 12:27:25 PM			5.72700E+03				
2/21/25 9:54:30 AM			5.60400E+03				
2/24/25 9:26:44 AM			5.74500E+03				
2/25/25 9:09:41 AM			5.34000E+03				
2/26/25 10:36:24 AM			5.69300E+03				
2/27/25 10:59:13 AM			5.67200E+03				
2/28/25 9:24:51 AM			5.43800E+03				
3/3/25 10:51:33 AM			5.82200E+03				
3/4/25 9:27:52 AM			5.64700E+03				
3/5/25 11:18:37 AM			5.20300E+03				
3/6/25 9:41:20 AM			5.27200E+03				
3/7/25 10:51:42 AM			5.33400E+03				
3/10/25 8:55:59 AM			5.35700E+03				
3/11/25 11:41:29 AM			5.34000E+03				
3/12/25 1:24:15 PM			5.23600E+03				
3/13/25 9:20:52 AM			5.30400E+03				
3/14/25 10:01:59 AM			5.68400E+03				
3/17/25 9:44:09 AM			5.23900E+03				
3/18/25 10:28:19 AM			5.79200E+03				
3/19/25 11:07:29 AM			5.87200E+03				
3/20/25 11:01:54 AM			5.44600E+03				
3/21/25 9:20:48 AM			5.76500E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:24:54 AM			5.70500E+03				
3/25/25 9:31:28 AM			5.98000E+03				
3/26/25 8:39:59 AM			5.23900E+03				
3/27/25 3:36:20 PM			5.77900E+03				
3/28/25 8:51:38 AM			5.83300E+03				
3/31/25 12:27:06 PM			5.38100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\68_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:18:42 AM - 3/31/25 12:27:06 PM
Sample Mean +/- Std Dev : 5613.439 +/- 2.73e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:20:21 AM

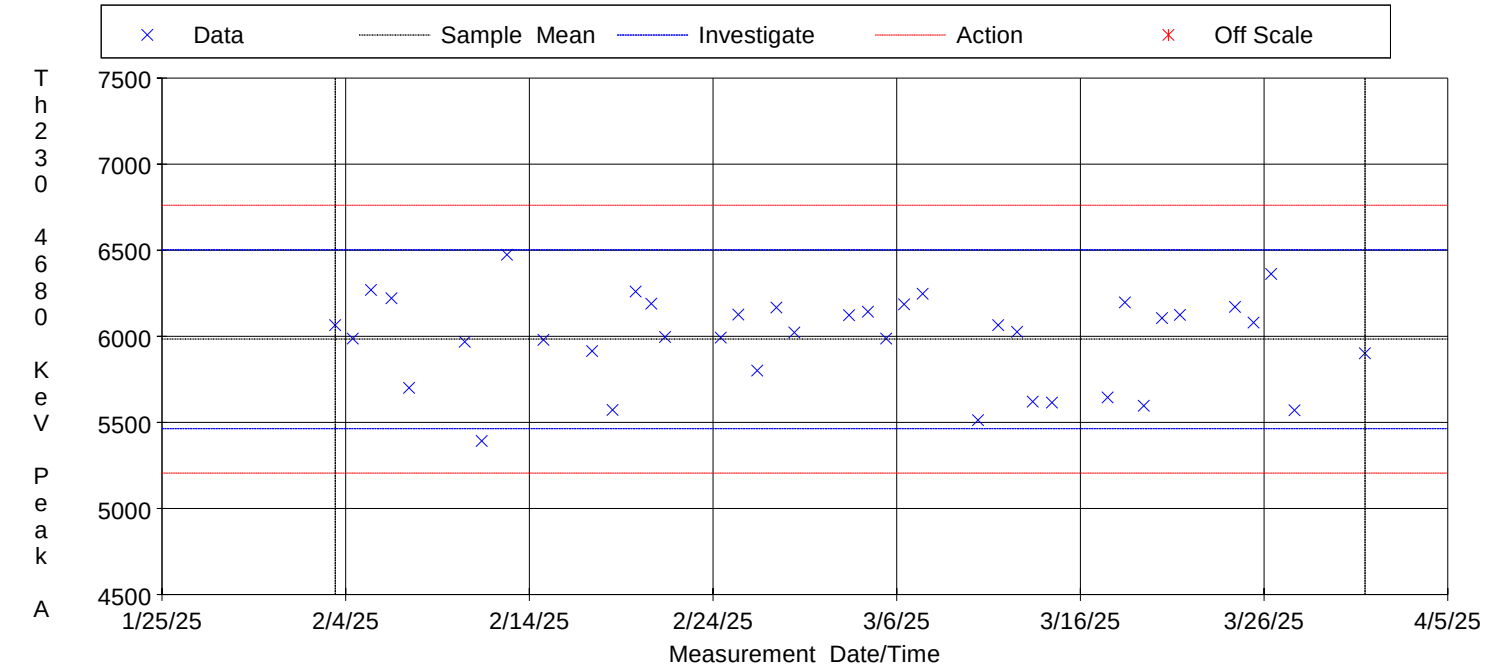
QA File: O:\alpha_sp\2025_QAF\4_April\69
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:48:37 AM
Sample End Date: 3/31/25 11:28:35 AM
Sample Mean: 5.98328E+03
Sample Std. Deviation: 2.59514E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:48:37 AM			6.06400E+03				
2/4/25 8:52:25 AM			5.98600E+03				
2/5/25 8:53:31 AM			6.26900E+03				
2/6/25 11:30:04 AM			6.22100E+03				
2/7/25 10:40:14 AM			5.70000E+03				
2/10/25 11:17:32 AM			5.96700E+03				
2/11/25 9:23:14 AM			5.39200E+03		In		
2/12/25 6:32:38 PM			6.47300E+03				
2/14/25 6:15:16 PM			5.97800E+03				
2/17/25 9:41:59 AM			5.91300E+03				
2/18/25 12:22:17 PM			5.57100E+03				
2/19/25 6:30:03 PM			6.25900E+03				
2/20/25 3:16:02 PM			6.18800E+03				
2/21/25 8:53:52 AM			5.99500E+03				
2/24/25 9:45:35 AM			5.99200E+03				
2/25/25 8:45:40 AM			6.12600E+03				
2/26/25 9:40:13 AM			5.80000E+03				
2/27/25 10:34:18 AM			6.16600E+03				
2/28/25 9:54:59 AM			6.02200E+03				
3/3/25 9:38:58 AM			6.12100E+03				
3/4/25 10:00:37 AM			6.14300E+03				
3/5/25 9:54:07 AM			5.98600E+03				
3/6/25 9:19:31 AM			6.18500E+03				
3/7/25 9:47:24 AM			6.24600E+03				
3/10/25 10:04:37 AM			5.51300E+03				
3/11/25 12:29:53 PM			6.06400E+03				
3/12/25 1:00:33 PM			6.02600E+03				
3/13/25 9:41:01 AM			5.62000E+03				
3/14/25 10:41:35 AM			5.61500E+03				
3/17/25 11:18:43 AM			5.64400E+03				
3/18/25 9:57:50 AM			6.19700E+03				
3/19/25 10:41:56 AM			5.59600E+03				
3/20/25 10:27:32 AM			6.10500E+03				
3/21/25 9:43:32 AM			6.12300E+03				
3/24/25 9:47:08 AM			6.17100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:49:28 AM			6.07900E+03				
3/26/25 9:01:07 AM			6.36200E+03				
3/27/25 3:41:25 PM			5.56900E+03				
3/31/25 11:28:35 AM			5.90100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\69_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:48:37 AM - 3/31/25 11:28:35 AM
Sample Mean +/- Std Dev : 5983.282 +/- 2.60e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:21:09 AM

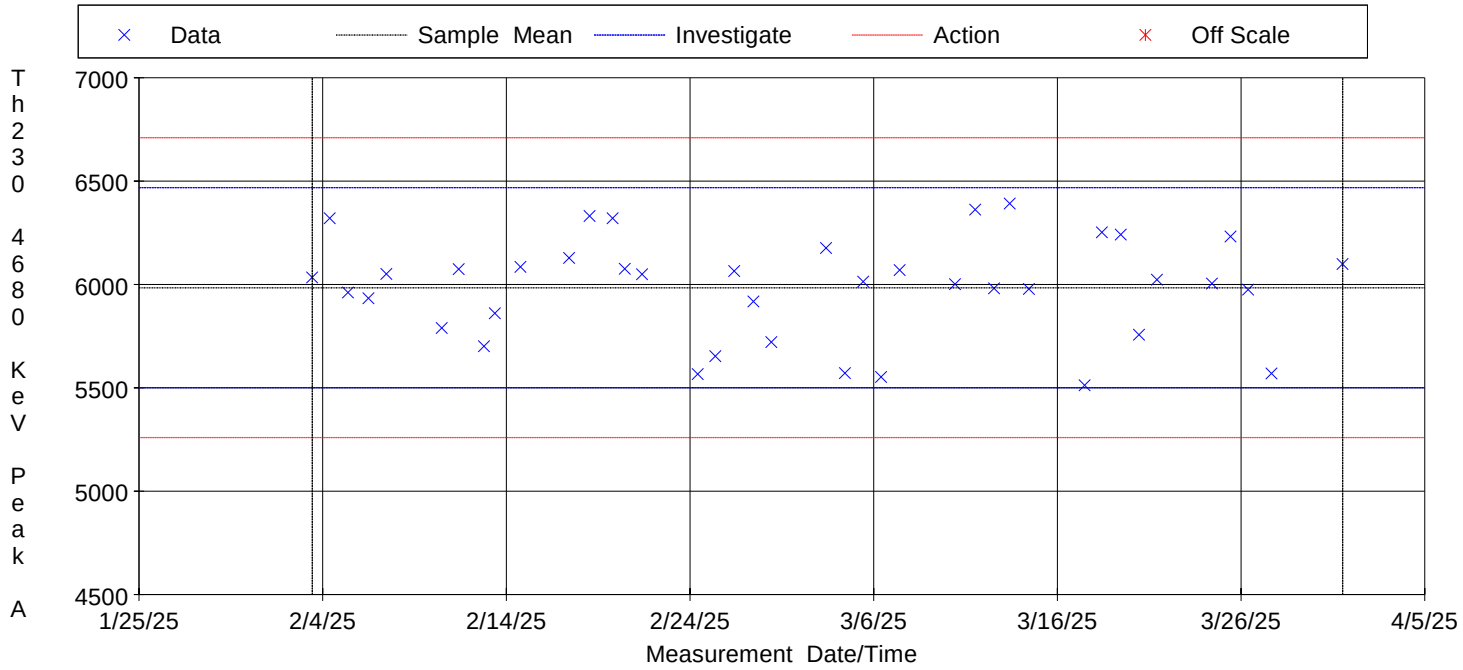
QA File: O:\alpha_sp\2025_QAF\4_April\70
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:48:41 AM
Sample End Date: 3/31/25 12:31:30 PM
Sample Mean: 5.98442E+03
Sample Std. Deviation: 2.41673E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:48:41 AM			6.03400E+03				
2/4/25 8:52:30 AM			6.32000E+03				
2/5/25 8:53:34 AM			5.96000E+03				
2/6/25 11:30:08 AM			5.93200E+03				
2/7/25 10:47:17 AM			6.05100E+03				
2/10/25 11:17:35 AM			5.78800E+03				
2/11/25 9:23:19 AM			6.07400E+03				
2/12/25 6:32:39 PM			5.70100E+03				
2/13/25 8:34:23 AM			5.86000E+03				
2/14/25 6:15:18 PM			6.08400E+03				
2/17/25 9:42:03 AM			6.12800E+03				
2/18/25 12:22:21 PM			6.33100E+03				
2/19/25 6:30:05 PM			6.31900E+03				
2/20/25 10:31:30 AM			6.07500E+03				
2/21/25 8:53:57 AM			6.04800E+03				
2/24/25 9:45:40 AM			5.56600E+03				
2/25/25 8:45:46 AM			5.65300E+03				
2/26/25 9:40:16 AM			6.06500E+03				
2/27/25 10:34:23 AM			5.91700E+03				
2/28/25 9:55:03 AM			5.72000E+03				
3/3/25 9:39:02 AM			6.17500E+03				
3/4/25 10:00:42 AM			5.57100E+03				
3/5/25 9:54:11 AM			6.01300E+03				
3/6/25 9:19:35 AM			5.55200E+03				
3/7/25 9:47:28 AM			6.06900E+03				
3/10/25 10:04:42 AM			6.00100E+03				
3/11/25 12:29:58 PM			6.36100E+03				
3/12/25 1:00:38 PM			5.98100E+03				
3/13/25 9:41:06 AM			6.39100E+03				
3/14/25 10:41:39 AM			5.97700E+03				
3/17/25 11:18:46 AM			5.51100E+03				
3/18/25 9:57:53 AM			6.25200E+03				
3/19/25 10:42:03 AM			6.24000E+03				
3/20/25 10:27:36 AM			5.75600E+03				
3/21/25 9:43:36 AM			6.02300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 9:47:12 AM			6.00400E+03				
3/25/25 9:49:31 AM			6.23200E+03				
3/26/25 9:01:14 AM			5.97400E+03				
3/27/25 3:41:25 PM			5.56900E+03				
3/31/25 12:31:30 PM			6.09900E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\70_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:48:41 AM - 3/31/25 12:31:30 PM
Sample Mean +/- Std Dev : 5984.425 +/- 2.42e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:22:20 AM

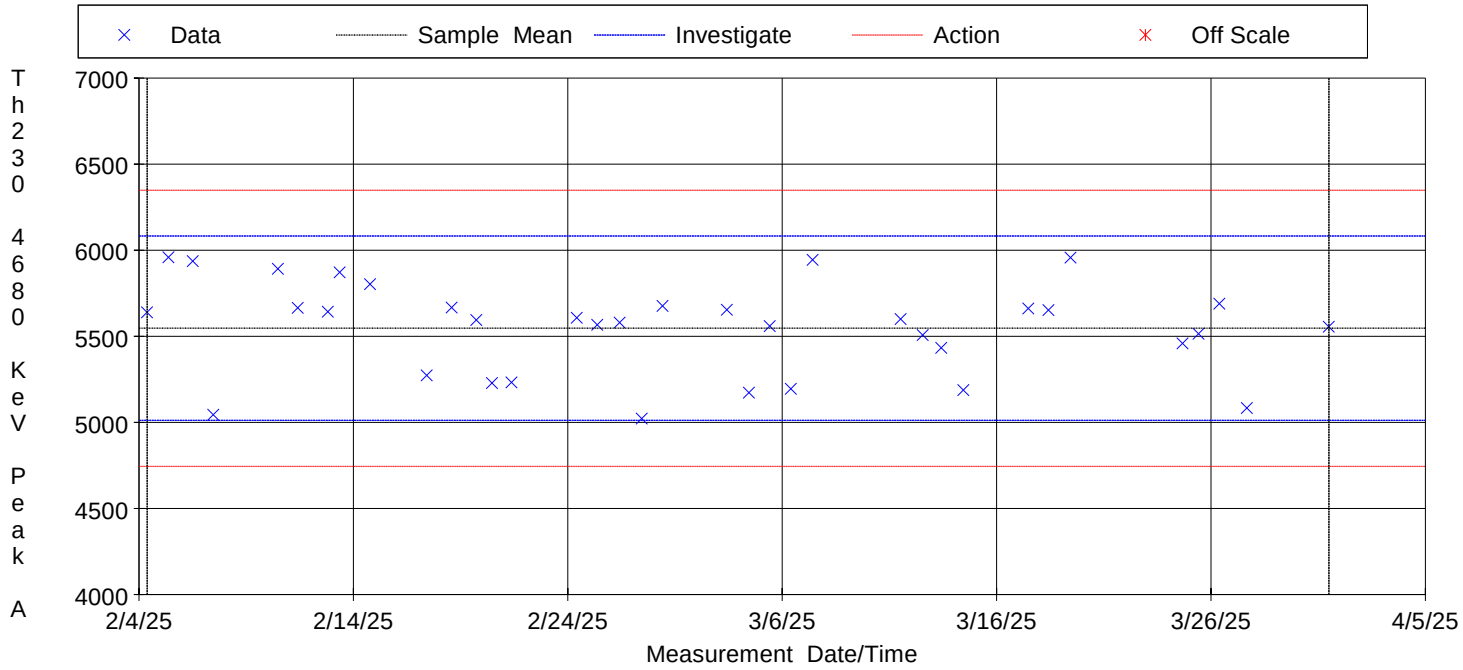
QA File: O:\alpha_sp\2025_QAF\4_April\71
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 8:52:35 AM
Sample End Date: 3/31/25 11:28:38 AM
Sample Mean: 5.54717E+03
Sample Std. Deviation: 2.67394E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 8:52:35 AM			5.63800E+03				
2/5/25 8:53:40 AM			5.95900E+03				
2/6/25 12:07:28 PM			5.93500E+03				
2/7/25 10:47:23 AM			5.04300E+03				
2/10/25 11:17:45 AM			5.89100E+03				
2/11/25 9:23:22 AM			5.66400E+03				
2/12/25 7:13:17 PM			5.64300E+03				
2/13/25 8:34:26 AM			5.87000E+03				
2/14/25 6:34:20 PM			5.80200E+03				
2/17/25 9:42:21 AM			5.27300E+03				
2/18/25 1:46:13 PM			5.66600E+03				
2/19/25 5:24:21 PM			5.59300E+03				
2/20/25 10:52:15 AM			5.22800E+03				
2/21/25 8:54:13 AM			5.23100E+03				
2/24/25 9:45:43 AM			5.60600E+03				
2/25/25 8:45:49 AM			5.56600E+03				
2/26/25 9:40:19 AM			5.57900E+03				
2/27/25 10:34:27 AM			5.02200E+03				
2/28/25 9:55:27 AM			5.67600E+03				
3/3/25 9:59:54 AM			5.65300E+03				
3/4/25 10:29:36 AM			5.17200E+03				
3/5/25 9:54:14 AM			5.55800E+03				
3/6/25 9:19:53 AM			5.19400E+03				
3/7/25 9:47:31 AM			5.94400E+03				
3/11/25 12:30:01 PM			5.60000E+03				
3/12/25 1:00:41 PM			5.50700E+03				
3/13/25 9:41:42 AM			5.43300E+03				
3/14/25 10:41:42 AM			5.18600E+03				
3/17/25 11:18:48 AM			5.66100E+03				
3/18/25 9:57:58 AM			5.65200E+03				
3/19/25 10:42:07 AM			5.95700E+03				
3/24/25 4:01:24 PM			5.45800E+03				
3/25/25 9:49:34 AM			5.51400E+03				
3/26/25 9:01:18 AM			5.68800E+03				
3/27/25 3:54:17 PM			5.08200E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/31/25 11:28:38 AM			5.55400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\71_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 8:52:35 AM - 3/31/25 11:28:38 AM
Sample Mean +/- Std Dev : 5547.167 +/- 2.67e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:23:03 AM

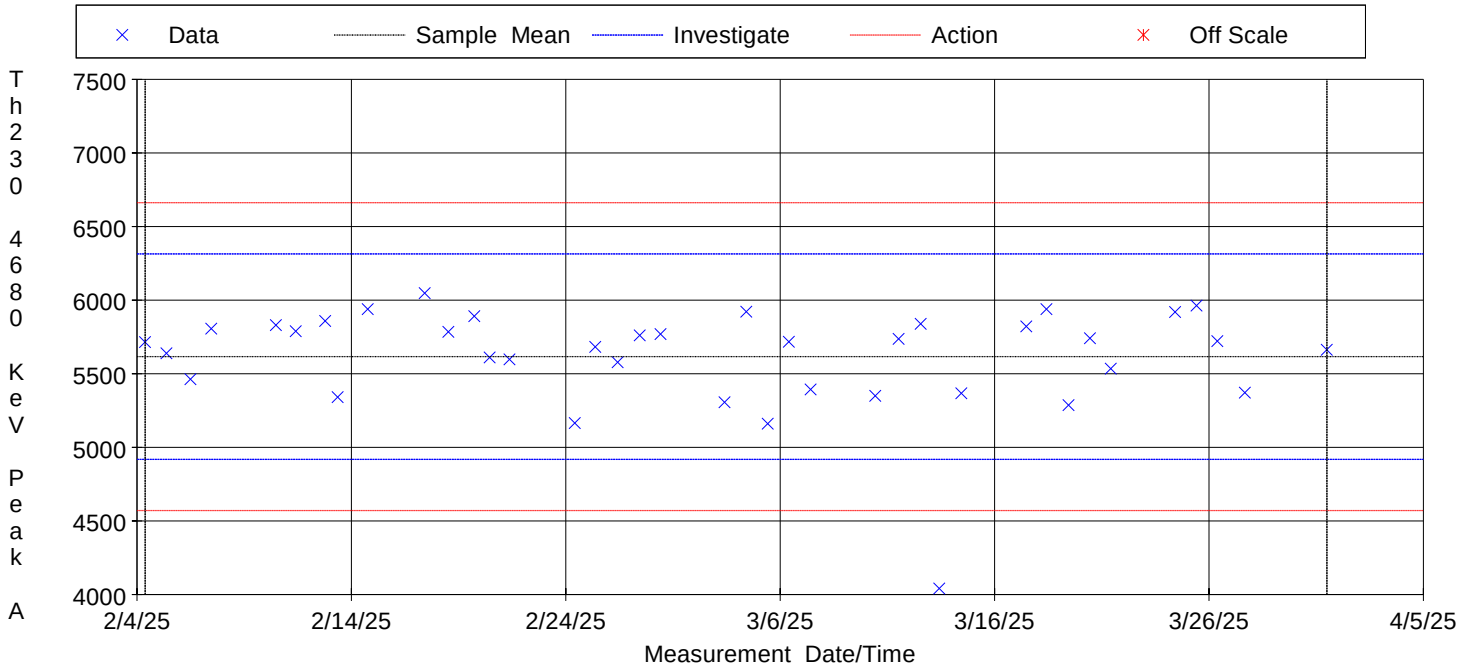
QA File: O:\alpha_sp\2025_QAF\4_April\72
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 8:52:38 AM
Sample End Date: 3/31/25 11:28:39 AM
Sample Mean: 5.61605E+03
Sample Std. Deviation: 3.48661E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 8:52:38 AM			5.71400E+03				
2/5/25 8:53:43 AM			5.63700E+03				
2/6/25 11:30:25 AM			5.46100E+03				
2/7/25 10:47:28 AM			5.80600E+03				
2/10/25 11:17:48 AM			5.83000E+03				
2/11/25 9:23:41 AM			5.78900E+03				
2/12/25 6:32:42 PM			5.85700E+03				
2/13/25 8:34:30 AM			5.34000E+03				
2/14/25 6:15:21 PM			5.93800E+03				
2/17/25 9:42:24 AM			6.04600E+03				
2/18/25 12:22:50 PM			5.78300E+03				
2/19/25 5:24:23 PM			5.89100E+03				
2/20/25 10:31:44 AM			5.60900E+03				
2/21/25 8:54:19 AM			5.59700E+03				
2/24/25 9:45:46 AM			5.16400E+03				
2/25/25 8:45:59 AM			5.68200E+03				
2/26/25 9:40:24 AM			5.57700E+03				
2/27/25 10:34:35 AM			5.76000E+03				
2/28/25 9:55:13 AM			5.76800E+03				
3/3/25 9:39:04 AM			5.30600E+03				
3/4/25 10:01:08 AM			5.92000E+03				
3/5/25 9:54:20 AM			5.16000E+03				
3/6/25 9:20:00 AM			5.71600E+03				
3/7/25 9:47:35 AM			5.39300E+03				
3/10/25 10:05:05 AM			5.35000E+03				
3/11/25 12:30:06 PM			5.73500E+03				
3/12/25 1:00:49 PM			5.83700E+03				
3/13/25 9:41:44 AM			4.04100E+03		Ac		
3/14/25 10:41:48 AM			5.36700E+03				
3/17/25 11:18:53 AM			5.82000E+03				
3/18/25 9:58:06 AM			5.93800E+03				
3/19/25 10:42:13 AM			5.28600E+03				
3/20/25 10:30:13 AM			5.74100E+03				
3/21/25 9:43:47 AM			5.53300E+03				
3/24/25 9:47:21 AM			5.91800E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:49:42 AM			5.96100E+03				
3/26/25 9:01:25 AM			5.72100E+03				
3/27/25 3:54:21 PM			5.37100E+03				
3/31/25 11:28:39 AM			5.66300E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\72_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 8:52:38 AM - 3/31/25 11:28:39 AM
Sample Mean +/- Std Dev : 5616.051 +/- 3.49e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

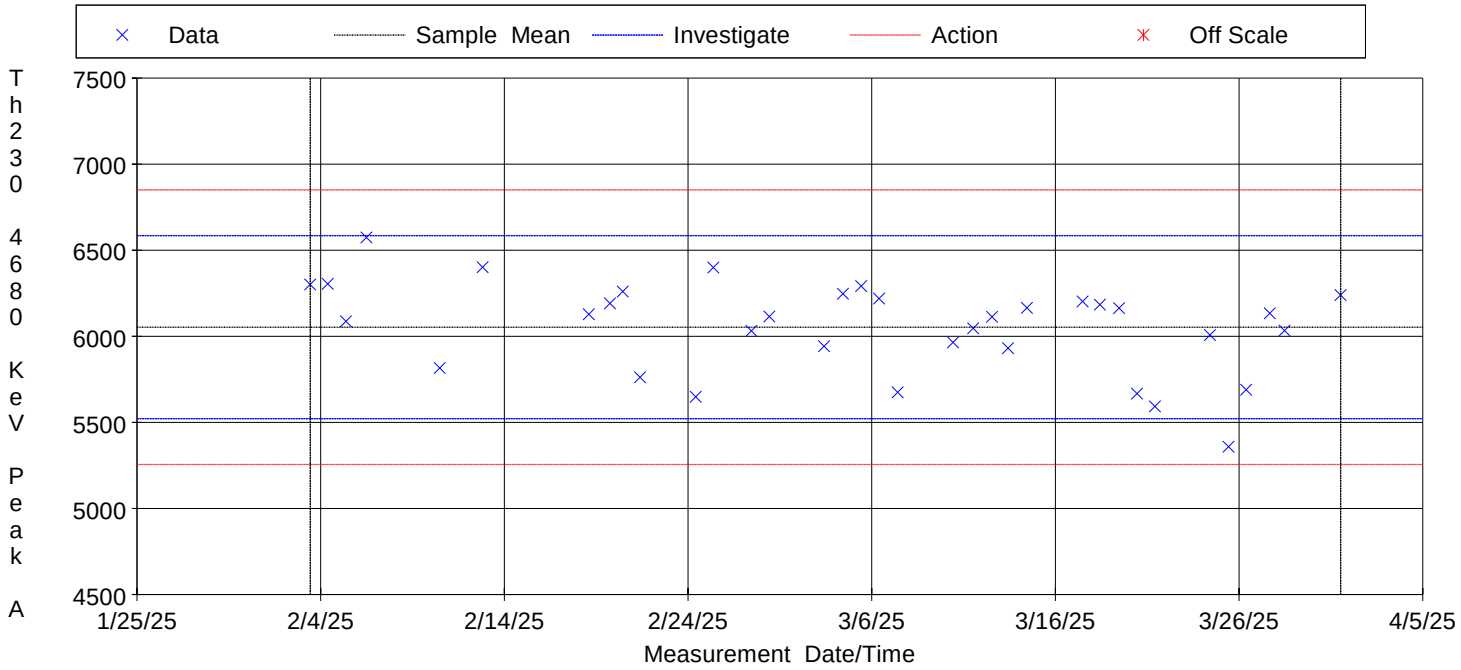
Full Parameter Results Report
4/2/25 11:24:00 AM

QA File: O:\alpha_sp\2025_QAF\4_April\75
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:48:57 AM
Sample End Date: 3/31/25 12:29:29 PM
Sample Mean: 6.05311E+03
Sample Std. Deviation: 2.65791E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:48:57 AM			6.30000E+03				
2/4/25 8:53:04 AM			6.30400E+03				
2/5/25 8:54:13 AM			6.08700E+03				
2/6/25 11:30:37 AM			6.57400E+03				
2/10/25 11:18:00 AM			5.81500E+03				
2/12/25 7:18:14 PM			6.40000E+03				
2/18/25 2:19:15 PM			6.12700E+03				
2/19/25 5:34:17 PM			6.19000E+03				
2/20/25 10:32:07 AM			6.26000E+03				
2/21/25 8:54:36 AM			5.76200E+03				
2/24/25 9:46:01 AM			5.64800E+03				
2/25/25 8:46:03 AM			6.39800E+03				
2/27/25 10:35:14 AM			6.03000E+03				
2/28/25 9:55:44 AM			6.11500E+03				
3/3/25 9:39:07 AM			5.94100E+03				
3/4/25 10:01:32 AM			6.24700E+03				
3/5/25 9:54:33 AM			6.29100E+03				
3/6/25 9:20:17 AM			6.21900E+03				
3/7/25 9:47:46 AM			5.67400E+03				
3/10/25 10:05:22 AM			5.96300E+03				
3/11/25 12:30:22 PM			6.04500E+03				
3/12/25 1:01:09 PM			6.11200E+03				
3/13/25 9:42:05 AM			5.93100E+03				
3/14/25 10:41:52 AM			6.16400E+03				
3/17/25 11:19:06 AM			6.20200E+03				
3/18/25 9:58:17 AM			6.18300E+03				
3/19/25 10:59:13 AM			6.16200E+03				
3/20/25 10:29:04 AM			5.66700E+03				
3/21/25 9:44:04 AM			5.59200E+03				
3/24/25 9:47:45 AM			6.00600E+03				
3/25/25 9:49:57 AM			5.35800E+03		In		
3/26/25 9:01:46 AM			5.68800E+03				
3/27/25 3:45:23 PM			6.13200E+03				
3/28/25 11:02:22 AM			6.03300E+03				
3/31/25 12:29:29 PM			6.23900E+03				

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\75_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:48:57 AM - 3/31/25 12:29:29 PM
Sample Mean +/- Std Dev : 6053.114 +/- 2.66e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:24:47 AM

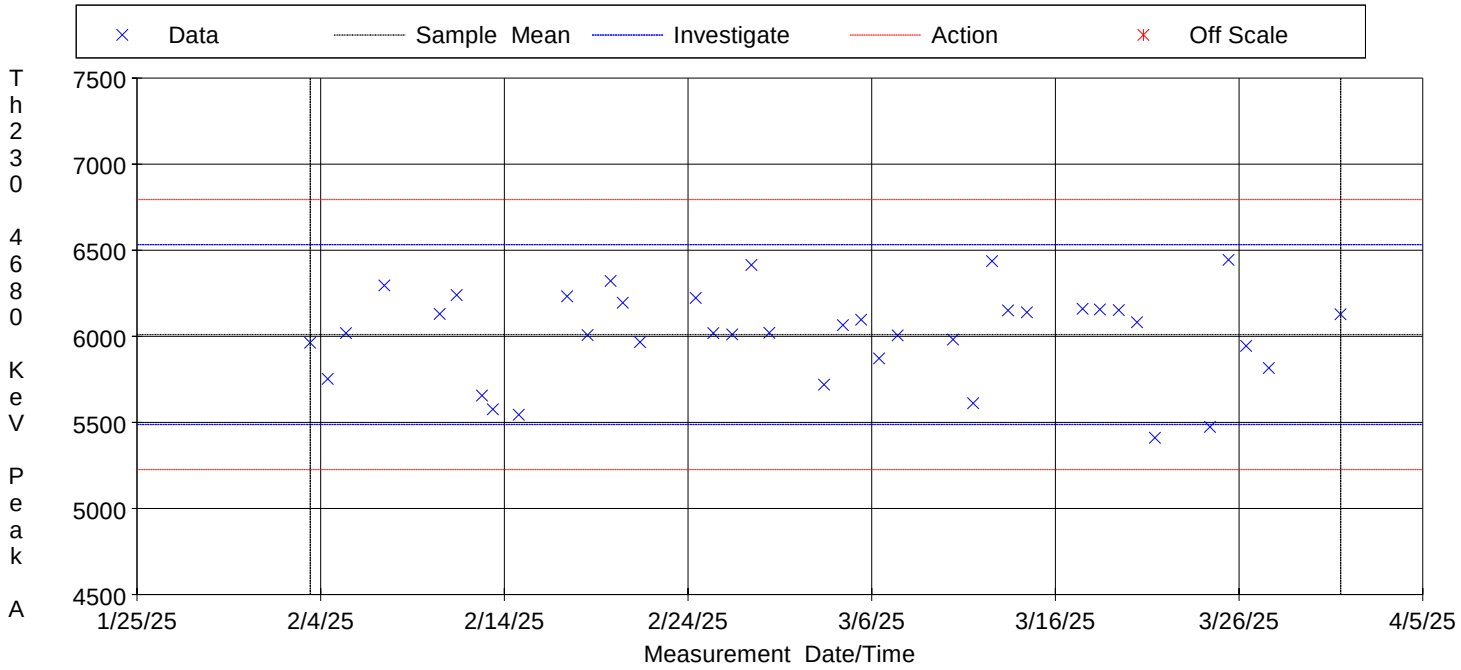
QA File: O:\alpha_sp\2025_QAF\4_April\76
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:49:01 AM
Sample End Date: 3/31/25 12:29:30 PM
Sample Mean: 6.01010E+03
Sample Std. Deviation: 2.61251E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:49:01 AM			5.96200E+03				
2/4/25 8:53:08 AM			5.75100E+03				
2/5/25 8:54:15 AM			6.01700E+03				
2/7/25 10:47:50 AM			6.29400E+03				
2/10/25 11:18:05 AM			6.13000E+03				
2/11/25 9:24:09 AM			6.23800E+03				
2/12/25 6:32:45 PM			5.65600E+03				
2/13/25 8:34:38 AM			5.57500E+03				
2/14/25 6:48:26 PM			5.54300E+03				
2/17/25 9:42:43 AM			6.23200E+03				
2/18/25 12:23:00 PM			6.00600E+03				
2/19/25 6:29:53 PM			6.32100E+03				
2/20/25 10:32:09 AM			6.19400E+03				
2/21/25 8:54:38 AM			5.96600E+03				
2/24/25 9:46:07 AM			6.22200E+03				
2/25/25 8:46:07 AM			6.01700E+03				
2/26/25 9:41:00 AM			6.01000E+03				
2/27/25 10:35:18 AM			6.41400E+03				
2/28/25 9:55:49 AM			6.02000E+03				
3/3/25 9:39:10 AM			5.71900E+03				
3/4/25 10:01:37 AM			6.06400E+03				
3/5/25 9:54:37 AM			6.09600E+03				
3/6/25 9:20:21 AM			5.87100E+03				
3/7/25 9:47:49 AM			6.00500E+03				
3/10/25 10:05:26 AM			5.98000E+03				
3/11/25 12:30:26 PM			5.61000E+03				
3/12/25 1:01:11 PM			6.43500E+03				
3/13/25 9:42:08 AM			6.14900E+03				
3/14/25 10:41:56 AM			6.13800E+03				
3/17/25 11:19:09 AM			6.15800E+03				
3/18/25 9:58:21 AM			6.15600E+03				
3/19/25 10:42:36 AM			6.15200E+03				
3/20/25 10:29:08 AM			6.08100E+03				
3/21/25 9:44:07 AM			5.40900E+03	In			
3/24/25 9:47:51 AM			5.47300E+03	In			

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:50:05 AM			6.44400E+03				
3/26/25 9:01:50 AM			5.94300E+03				
3/27/25 2:31:36 PM			5.81500E+03				
3/31/25 12:29:30 PM			6.12800E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\76_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:49:01 AM - 3/31/25 12:29:30 PM
Sample Mean +/- Std Dev : 6010.103 +/- 2.61e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:25:40 AM

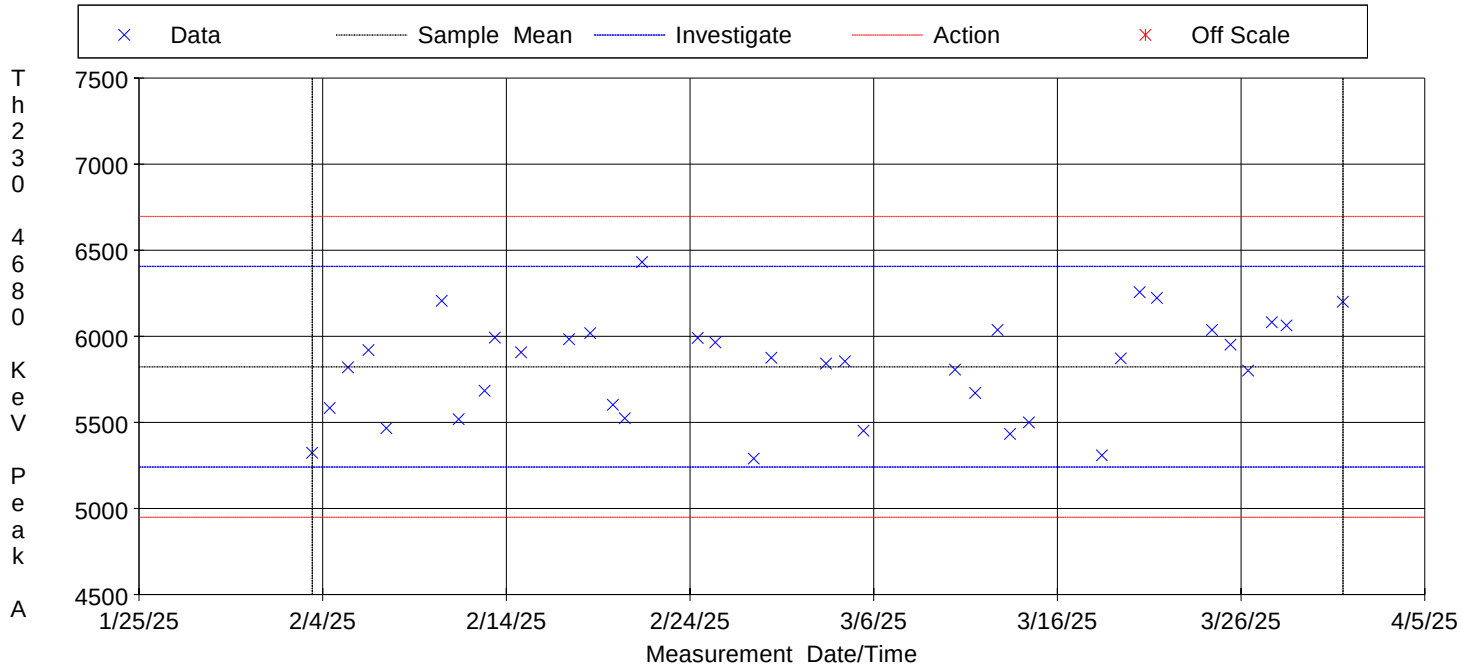
QA File: O:\alpha_sp\2025_QAF\4_April\77
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:49:06 AM
Sample End Date: 3/31/25 12:47:42 PM
Sample Mean: 5.82319E+03
Sample Std. Deviation: 2.91223E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:49:06 AM			5.32200E+03				
2/4/25 8:53:43 AM			5.58200E+03				
2/5/25 8:54:19 AM			5.81800E+03				
2/6/25 11:30:45 AM			5.91900E+03				
2/7/25 10:48:06 AM			5.46500E+03				
2/10/25 11:18:10 AM			6.20500E+03				
2/11/25 9:24:14 AM			5.51800E+03				
2/12/25 7:15:19 PM			5.68300E+03				
2/13/25 8:34:54 AM			5.99100E+03				
2/14/25 6:54:13 PM			5.90700E+03				
2/17/25 9:42:58 AM			5.98200E+03				
2/18/25 1:30:10 PM			6.01800E+03				
2/19/25 7:04:34 PM			5.60200E+03				
2/20/25 10:32:33 AM			5.52300E+03				
2/21/25 8:54:52 AM			6.43000E+03	In			
2/24/25 9:46:32 AM			5.99000E+03				
2/25/25 8:46:12 AM			5.96300E+03				
2/27/25 10:57:58 AM			5.28900E+03				
2/28/25 9:55:53 AM			5.87400E+03				
3/3/25 9:39:27 AM			5.84200E+03				
3/4/25 10:01:57 AM			5.85400E+03				
3/5/25 10:26:59 AM			5.45100E+03				
3/10/25 10:06:13 AM			5.80500E+03				
3/11/25 12:30:56 PM			5.67000E+03				
3/12/25 5:34:27 PM			6.03600E+03				
3/13/25 9:42:21 AM			5.43300E+03				
3/14/25 10:42:09 AM			5.50000E+03				
3/18/25 9:58:25 AM			5.30800E+03				
3/19/25 10:42:41 AM			5.87100E+03				
3/20/25 11:02:22 AM			6.25600E+03				
3/21/25 9:44:18 AM			6.22200E+03				
3/24/25 9:48:04 AM			6.03600E+03				
3/25/25 9:50:28 AM			5.95000E+03				
3/26/25 9:03:24 AM			5.80000E+03				
3/27/25 3:57:32 PM			6.08100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/28/25 11:03:05 AM			6.06300E+03				
3/31/25 12:47:42 PM			6.19900E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\77_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:49:06 AM - 3/31/25 12:47:42 PM
Sample Mean +/- Std Dev : 5823.189 +/- 2.91e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:27:07 AM

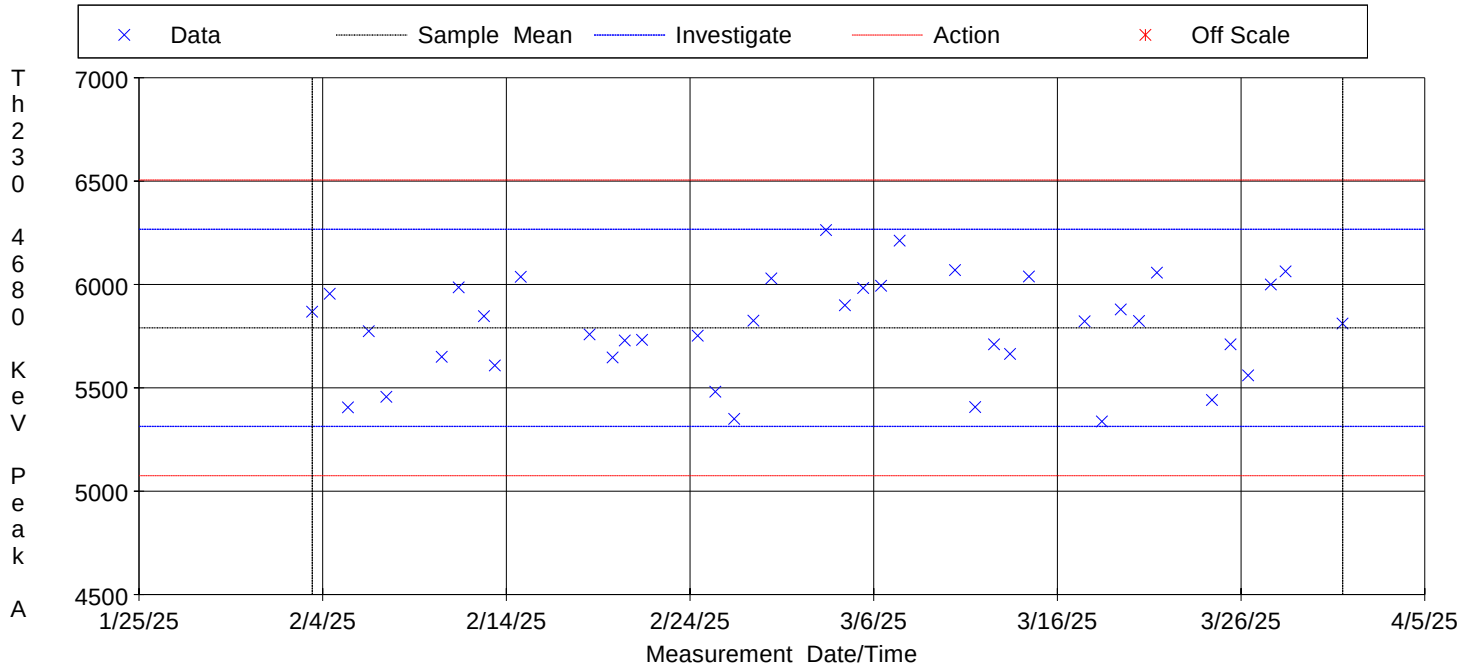
QA File: O:\alpha_sp\2025_QAF\4_April\78
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:49:10 AM
Sample End Date: 3/31/25 12:30:58 PM
Sample Mean: 5.79020E+03
Sample Std. Deviation: 2.38330E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:49:10 AM			5.86700E+03				
2/4/25 8:53:48 AM			5.95500E+03				
2/5/25 8:54:23 AM			5.40500E+03				
2/6/25 12:07:39 PM			5.77300E+03				
2/7/25 10:48:09 AM			5.45600E+03				
2/10/25 11:18:18 AM			5.64900E+03				
2/11/25 9:24:19 AM			5.98600E+03				
2/12/25 6:32:48 PM			5.84600E+03				
2/13/25 8:34:58 AM			5.60700E+03				
2/14/25 6:48:31 PM			6.03700E+03				
2/18/25 12:23:06 PM			5.75700E+03				
2/19/25 6:29:57 PM			5.64600E+03				
2/20/25 10:32:36 AM			5.72900E+03				
2/21/25 8:55:06 AM			5.73200E+03				
2/24/25 9:46:36 AM			5.75100E+03				
2/25/25 8:46:16 AM			5.48100E+03				
2/26/25 9:41:23 AM			5.34900E+03				
2/27/25 10:36:02 AM			5.82400E+03				
2/28/25 9:55:58 AM			6.02900E+03				
3/3/25 9:39:31 AM			6.26300E+03				
3/4/25 10:02:00 AM			5.89800E+03				
3/5/25 9:55:09 AM			5.98200E+03				
3/6/25 9:20:43 AM			5.99300E+03				
3/7/25 9:48:11 AM			6.21100E+03				
3/10/25 10:06:18 AM			6.06900E+03				
3/11/25 12:30:59 PM			5.40600E+03				
3/12/25 1:01:18 PM			5.71000E+03				
3/13/25 9:42:26 AM			5.66300E+03				
3/14/25 10:42:12 AM			6.03800E+03				
3/17/25 11:19:37 AM			5.82100E+03				
3/18/25 9:58:31 AM			5.33600E+03				
3/19/25 10:42:45 AM			5.87900E+03				
3/20/25 10:30:31 AM			5.82200E+03				
3/21/25 9:44:34 AM			6.05700E+03				
3/24/25 9:48:16 AM			5.44000E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:50:43 AM			5.70900E+03				
3/26/25 9:03:41 AM			5.56000E+03				
3/27/25 2:31:40 PM			5.99900E+03				
3/28/25 9:49:26 AM			6.06200E+03				
3/31/25 12:30:58 PM			5.81100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\78_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:49:10 AM - 3/31/25 12:30:58 PM
Sample Mean +/- Std Dev : 5790.200 +/- 2.38e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

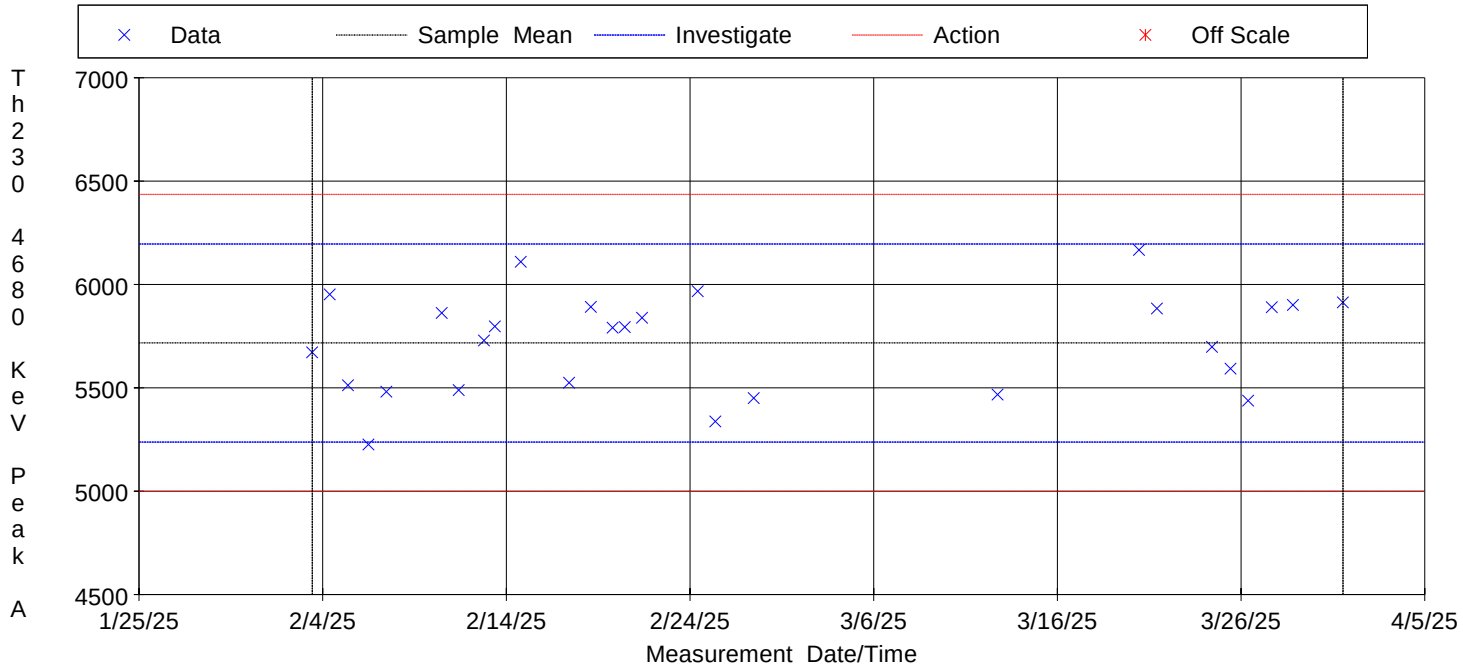
Full Parameter Results Report
4/2/25 11:27:59 AM

QA File: O:\alpha_sp\2025_QAF\4_April\79
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:49:29 AM
Sample End Date: 3/31/25 12:43:01 PM
Sample Mean: 5.71693E+03
Sample Std. Deviation: 2.39368E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:49:29 AM			5.67100E+03				
2/4/25 8:54:04 AM			5.95100E+03				
2/5/25 8:54:39 AM			5.51100E+03				
2/6/25 11:30:53 AM			5.22600E+03		In		
2/7/25 10:48:12 AM			5.48000E+03				
2/10/25 11:18:21 AM			5.86200E+03				
2/11/25 9:24:23 AM			5.48900E+03				
2/12/25 6:32:50 PM			5.72800E+03				
2/13/25 8:35:11 AM			5.79600E+03				
2/14/25 6:48:33 PM			6.10900E+03				
2/17/25 9:43:16 AM			5.52400E+03				
2/18/25 1:59:47 PM			5.89100E+03				
2/19/25 6:29:59 PM			5.79100E+03				
2/20/25 10:32:39 AM			5.79300E+03				
2/21/25 8:55:30 AM			5.83900E+03				
2/24/25 9:46:55 AM			5.96600E+03				
2/25/25 8:46:28 AM			5.33600E+03				
2/27/25 10:58:45 AM			5.44900E+03				
3/12/25 5:27:03 PM			5.46700E+03				
3/20/25 10:29:34 AM			6.16600E+03				
3/21/25 9:46:11 AM			5.88300E+03				
3/24/25 9:48:43 AM			5.69800E+03				
3/25/25 9:51:16 AM			5.59200E+03				
3/26/25 9:04:17 AM			5.43700E+03				
3/27/25 3:47:58 PM			5.89000E+03				
3/28/25 7:32:32 PM			5.90000E+03				
3/31/25 12:43:01 PM			5.91200E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\79_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:49:29 AM - 3/31/25 12:43:01 PM
Sample Mean +/- Std Dev : 5716.926 +/- 2.39e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:28:55 AM

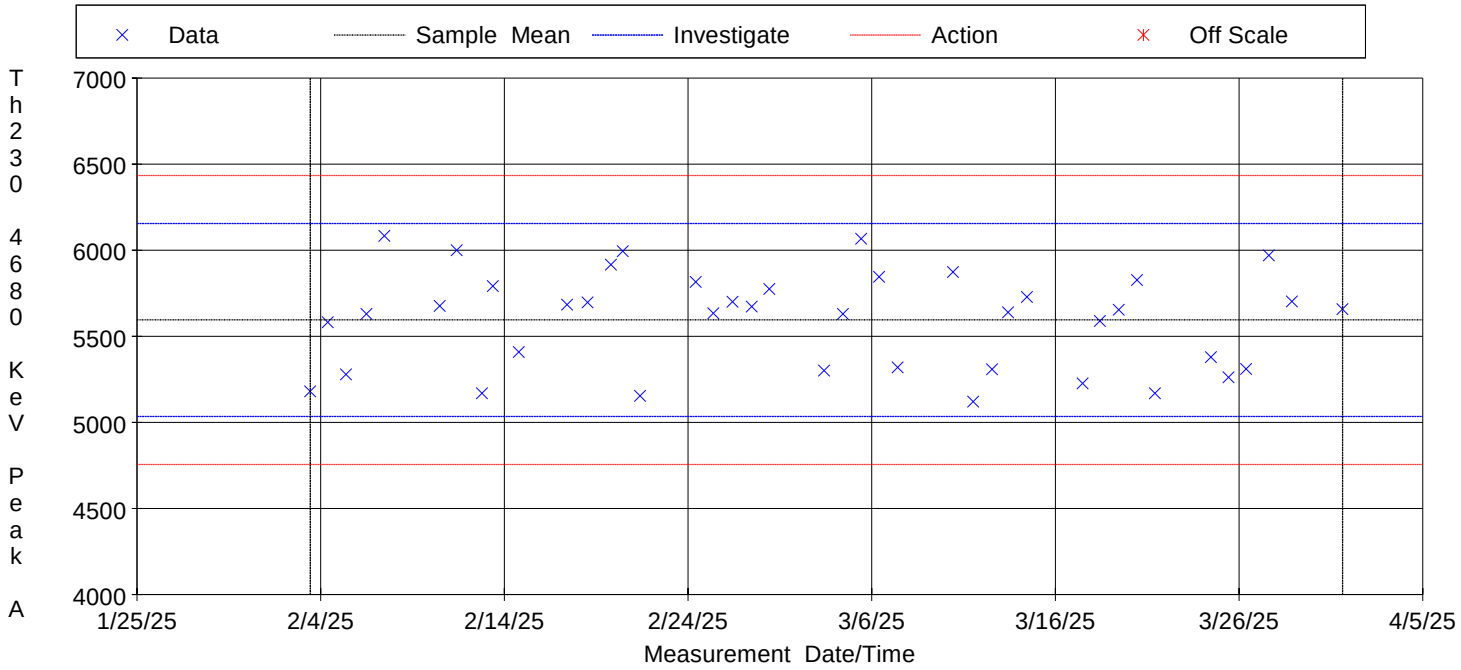
QA File: O:\alpha_sp\2025_QAF\4_April\80
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:49:32 AM
Sample End Date: 3/31/25 2:56:47 PM
Sample Mean: 5.59493E+03
Sample Std. Deviation: 2.79998E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:49:32 AM			5.17900E+03				
2/4/25 8:54:07 AM			5.58000E+03				
2/5/25 8:54:44 AM			5.27800E+03				
2/6/25 11:30:56 AM			5.62900E+03				
2/7/25 10:48:18 AM			6.08200E+03				
2/10/25 11:18:29 AM			5.67500E+03				
2/11/25 9:24:27 AM			6.00000E+03				
2/12/25 6:32:52 PM			5.16900E+03				
2/13/25 8:35:14 AM			5.79000E+03				
2/14/25 6:48:35 PM			5.40800E+03				
2/17/25 9:43:19 AM			5.68400E+03				
2/18/25 12:23:20 PM			5.69700E+03				
2/19/25 7:11:32 PM			5.91600E+03				
2/20/25 10:32:43 AM			5.99300E+03				
2/21/25 8:55:35 AM			5.15400E+03				
2/24/25 9:46:58 AM			5.81500E+03				
2/25/25 8:46:30 AM			5.63200E+03				
2/26/25 9:42:24 AM			5.70000E+03				
2/27/25 10:59:13 AM			5.67200E+03				
2/28/25 9:56:16 AM			5.77500E+03				
3/3/25 9:40:07 AM			5.30100E+03				
3/4/25 10:02:36 AM			5.63000E+03				
3/5/25 9:55:34 AM			6.06600E+03				
3/6/25 9:21:22 AM			5.84500E+03				
3/7/25 9:48:18 AM			5.31800E+03				
3/10/25 10:06:59 AM			5.87300E+03				
3/11/25 12:31:10 PM			5.11900E+03				
3/12/25 1:01:32 PM			5.30700E+03				
3/13/25 9:42:56 AM			5.63900E+03				
3/14/25 10:42:35 AM			5.72700E+03				
3/17/25 11:19:52 AM			5.22500E+03				
3/18/25 9:59:01 AM			5.58800E+03				
3/19/25 10:42:55 AM			5.65400E+03				
3/20/25 10:29:38 AM			5.82700E+03				
3/21/25 9:46:16 AM			5.16900E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:48:09 AM			5.37900E+03				
3/25/25 9:51:23 AM			5.26100E+03				
3/26/25 9:04:22 AM			5.30900E+03				
3/27/25 2:31:47 PM			5.96900E+03				
3/28/25 8:59:16 PM			5.70100E+03				
3/31/25 2:56:47 PM			5.65700E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
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BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\80_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:49:32 AM - 3/31/25 2:56:47 PM
Sample Mean +/- Std Dev : 5594.927 +/- 2.80e+002

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Haley & Aldrich-Phoenix, AZ

400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Billing Information:
Attn: Accounts Payable
70 Blanchard Rd., Ste. 204
Burlington, MA 01803-5100

Report to:
Samantha Kaney 602-760-2420

Email To: skaney@haleyaldrich.com

Project Description:

City/State Collected: Missouri

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
0213103-000

Lab Project #
HALALDPAZ-EVERGY

Collected by (print):
S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CR6,SULFATE,TS 4oz Clr-NoPres EPA 537.1 Mod,DoD	CR6ICFFP 50mlTube/plungerPres	Diss Metals CR6LL 250mlHDPE-NoPres	Metals 2ozClr-NoPres Mercury EPA SW 7470B SW6010B	SULFATE 125mlHDPE-NoPres	Total Metals Metals 250mlHDPE-HNO3	EPA 903.1 Ra-226, Ra-228 1LstHDPE 2Pres				
Monrose_School_Ditch_S_So	Comp	SS	0-1	3/10/25	1050	3	X			X			X				-01
Monrose-School Drains-S_So	Comp	SS	0-1	3/10/25	1120	3	X			X			X				-02
650_851_S_So	Comp	SS	0-1	3/10/25	1155	3	X			X			X				-03
601_T_S_So	Comp	SS	0-1	3/10/25	1235	3	X			X			X				-04
250_651_S_So	Comp	SS	0-1	3/10/25	1310	3	X			X			X				-05
Davis_School_Ditch_S_So	Comp	SS	0-1	3/10/25	1350	3	X			X			X				-06
Davis-School-Drains-S_So	Comp	SS	0-1	3/10/25	1415	3	X			X			X				-07
Davis-school-front-playground_S_So	Comp	SS	0-1	3/10/25	1445	3	X			X			X				-08
Davis_School_playground_S_So	~~Comp~~ Grab	SS	0-1	3/10/25	1510	3	X			X			X				-09
Davis_School_Track_S_So	Comp	SS	0-1	3/10/25	1535	3	X			X			X				-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:CR6LL has a 24hr hold time
No rush for rad

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	3/10/25	1800	FedEx
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Ei Davis

Trip Blank Received: Yes / No HCL / MeoH TBR

Temp: RAD °C Bottles Received: 33
2.7+0M=3.1

Date: 3-11-25 Time: 0900

Hold:

Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

If preservation required by Login: Date/Time

Chain of Custody Page 1 of 1

Pace PEOPLE ADVANCING SCIENCE
L1834667

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

L1834667

E125 TD

Acctnum: HALALDPAZ
Template: T269254
Prelogin: P1136136
PM: 288 - Daphne Richards
PB: 3/13/25 CAM
Shipped Via: FedEX Standard

Remarks | Sample # (lab only)

Company Name/Address:
Haley & Aldrich-Phoenix, AZ

400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Billing Information:
Attn: Accounts Payable
70 Blanchard Rd., Ste. 204
Burlington, MA 01803-5100

Report to:
Samantha Kaney 602-760-2420

Email To: **skaney@haleyaldrich.com**

Project Description:

City/State Collected: Missouri

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
D213103-000

Lab Project #
HALALDPAZ-EVERGY

Collected by (print):
S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CR6,SULFATE,TS 4ozClr-NoPres	CR6ICFFP 50mlTube/plungerPres	Diss Metals, CR6LL 250mlHDPE-NoPres	Metals 2ozClr-NoPres Mercury	SULFATE 125mlHDPE-NoPres	Total Metals 250mlHDPE-HNO3	Lead-226 and Radium-228			Remarks	Sample # (lab only)
Davis_school-Dup2_So	Grab	SS	0-1	3/10/25	1705	3	X			X			X				-11
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:CR6LL has a 24hr hold time
No rush for rad

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4439 2438 8561

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	3/10/25	1800	FedEx
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Date: 3-11-25 Time: 0900

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 2.7 °C Bottles Received: 33
2.7+0.4=3.1

Hold: Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: Y __N
RAD Screen <0.5 mR/hr: Y __N

If preservation required by Login: Date/Time

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

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SDG # L1834667
Table # L1834667
Acctnum: HALALDPAZ
Template: T269254
Prelogin: P1136136
PM: 288 - Daphne Richards
PB: 3/13/25 Cam
Shipped Via: FedEX Standard

ANALYTICAL REPORT

March 20, 2025

Haley & Aldrich-Phoenix, AZ

Sample Delivery Group:	L1835560
Samples Received:	03/12/2025
Project Number:	0213103-000
Description:	ESI-Env Sampling

Report To: Samantha Kaney
400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Entire Report Reviewed By: Daphne R Richards

Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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L1835560-08 03/15/25 14:45 LOGBAL1 21

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BLANK(R4187570-1) WG2470003 03/17/25 23:50 IC-10 391
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Al: Accreditations & Locations **523**
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CLINTON-SCHOOL-DITCH-S-SO L1835560-01 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 08:10 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469633	1	03/17/25 12:19	03/17/25 12:25	KDW	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:47	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2469046	1	03/16/25 19:57	03/17/25 21:56	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470122	1	03/17/25 17:24	03/19/25 14:52	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 11:54	DJS	Mt. Juliet, TN

18-901-S-SO L1835560-02 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 09:00 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469633	1	03/17/25 12:19	03/17/25 12:25	KDW	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:49	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2469046	1	03/16/25 19:57	03/17/25 22:11	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470122	1	03/17/25 17:24	03/19/25 14:55	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 11:56	DJS	Mt. Juliet, TN

K-18-S-SO L1835560-03 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 09:40 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469633	1	03/17/25 12:19	03/17/25 12:25	KDW	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:49	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2469046	1	03/16/25 19:57	03/17/25 22:32	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470122	1	03/17/25 17:24	03/19/25 14:57	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 11:58	DJS	Mt. Juliet, TN

P-230-S-SO L1835560-04 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 10:25 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:49	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2469046	1	03/16/25 19:57	03/17/25 22:47	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470122	1	03/17/25 17:24	03/19/25 15:00	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 11:59	DJS	Mt. Juliet, TN

P-350-S-SO L1835560-05 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 10:55 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:49	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2469046	1	03/16/25 19:57	03/17/25 23:03	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470122	1	03/17/25 17:24	03/19/25 15:03	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 12:01	DJS	Mt. Juliet, TN

NHR-S-SO L1835560-06 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 11:35 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:50	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2470003	1	03/17/25 19:35	03/18/25 00:38	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470122	1	03/17/25 17:24	03/19/25 15:05	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469953	1	03/16/25 08:56	03/16/25 17:54	DJS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469953	1	03/16/25 08:56	03/17/25 12:35	DJS	Mt. Juliet, TN

FLYASH-S-SO L1835560-07 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 15:08 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:52	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2470003	10.3	03/17/25 19:35	03/18/25 01:10	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470128	1	03/17/25 17:08	03/18/25 18:03	NDL	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 12:03	DJS	Mt. Juliet, TN

MONTROSE-LAKE-S-SO L1835560-08 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 13:30 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	CMB	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:52	PAN	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2470003	1	03/17/25 19:35	03/18/25 01:26	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470127	1	03/17/25 17:20	03/19/25 17:07	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 12:04	DJS	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

Report Revision History

Level II Report - Version 1: 03/20/25 08:48

2540 G-2011 Total Solids

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-S-SO

Lab Sample ID:	L1835560-01	**SDG:**	L1835560
Client Sample ID:	CLINTON-SCHOOL-DITCH-S-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	10	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/17/25 12:19
Analytical Batch:	WG2469633	**Analysis Date/Time:**	03/17/25 12:25
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.729 g
Total Solids (%):	72.6	**Final Wt/Vol:**	7.423 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	72.6	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-02	**SDG:**	L1835560
Client Sample ID:	18-901-S-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	11	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/17/25 12:19
Analytical Batch:	WG2469633	**Analysis Date/Time:**	03/17/25 12:25
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.675 g
Total Solids (%):	71.1	**Final Wt/Vol:**	7.257 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	71.1	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-03	**SDG:**	L1835560
Client Sample ID:	K-18-S-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	12	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/17/25 12:19
Analytical Batch:	WG2469633	**Analysis Date/Time:**	03/17/25 12:25
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.227 g
Total Solids (%):	63.3	**Final Wt/Vol:**	7.587 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	63.3	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-04	**SDG:**	L1835560
Client Sample ID:	P-230-S-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	07	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	6.729 g
Total Solids (%):	64.8	**Final Wt/Vol:**	4.814 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	64.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-05	**SDG:**	L1835560
Client Sample ID:	P-350-S-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	08	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.381 g
Total Solids (%):	66.4	**Final Wt/Vol:**	6.664 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	66.4	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-06	**SDG:**	L1835560
Client Sample ID:	NHR-S-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	09	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.153 g
Total Solids (%):	80.6	**Final Wt/Vol:**	7.632 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	80.6	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-07	**SDG:**	L1835560
Client Sample ID:	FLYASH-S-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	10	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	8.724 g
Total Solids (%):	67.6	**Final Wt/Vol:**	6.314 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	67.6	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-S-SO

Lab Sample ID:	L1835560-08	**SDG:**	L1835560
Client Sample ID:	MONTROSE-LAKE-S-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	11	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.826 g
Total Solids (%):	73.0	**Final Wt/Vol:**	7.522 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	73.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187078-1	**SDG:**	L1835560
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:30
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.286 g
Total Solids (%):		**Final Wt/Vol:**	1.287 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.00100	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187495-1	**SDG:**	L1835560
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/17/25 12:18
Analytical Batch:	WG2469633	**Analysis Date/Time:**	03/17/25 12:25
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.298 g
Total Solids (%):		**Final Wt/Vol:**	1.297 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.00100	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187078-3	**SDG:**	L1835560
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	02	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	4.565 g
Total Solids (%):	64.8	**Final Wt/Vol:**	3.35 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	62.9	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187495-3	**SDG:**	L1835560
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 13:36
Lab File ID:	02	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/17/25 12:18
Analytical Batch:	WG2469633	**Analysis Date/Time:**	03/17/25 12:25
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	8.835 g
Total Solids (%):	94.4	**Final Wt/Vol:**	8.414 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	94.4	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187078-2	**SDG:**	L1835560
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:30
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.296 g
Total Solids (%):		**Final Wt/Vol:**	6.298 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187495-2	**SDG:**	L1835560
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/17/25 12:18
Analytical Batch:	WG2469633	**Analysis Date/Time:**	03/17/25 12:25
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.298 g
Total Solids (%):		**Final Wt/Vol:**	6.295 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SDG:	L1835560	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL1	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2469634

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.00100	

SDG:	L1835560	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2469633

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.00100	

DUP Sample / File ID:	R4187078-3 / 02	**SDG:**	L1835560
OS Sample / File ID:	L1835560-04 / 07	**Analytical Batch:**	WG2469634
Instrument ID:	LOGBAL1	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	64.8	62.9	3.04	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187495-3 / 02	**SDG:**	L1835560
OS Sample / File ID:	L1835262-12 / 05	**Analytical Batch:**	WG2469633
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	94.4	94.4	0.0256	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835560-04,05,06,07,08

SAMPLE NO.:
R4187078-2

LCS Sample / File ID:	R4187078-2 / 03	**SDG:**	L1835560
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2469634
Instrument ID:	LOGBAL1	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835560-01,02,03

SAMPLE NO.:
R4187495-2

LCS Sample / File ID:	R4187495-2 / 03	**SDG:**	L1835560
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2469633
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs:	L1835560-01,02,03,04,05,06,07,08	**Analytical Method:**	2540 G-2011
Matrix:	Solid	**Prep Method:**	SM 2540 G

Analyte	CAS	Wavelength	Mass	MDL	RDL
				%	%
Total Solids	TSOLIDS				

ANALYSIS LOG

SDG:	L1835560	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL1	**Calibration Start Date:**	_____
Analytical Run:	WG2469634	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4187078-1	01	03/15/25 14:45	1	WG2469634
DUP	R4187078-3	02	03/15/25 14:45	1	WG2469634
LCS	R4187078-2	03	03/15/25 14:45	1	WG2469634
P-230-S-SO	L1835560-04	07	03/15/25 14:45	1	WG2469634
P-350-S-SO	L1835560-05	08	03/15/25 14:45	1	WG2469634
NHR-S-SO	L1835560-06	09	03/15/25 14:45	1	WG2469634
FLYASH-S-SO	L1835560-07	10	03/15/25 14:45	1	WG2469634
MONTROSE-LAKE-S-SO	L1835560-08	11	03/15/25 14:45	1	WG2469634

ANALYSIS LOG

SDG:	L1835560	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL3	**Calibration Start Date:**	_____
Analytical Run:	WG2469633	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4187495-1	01	03/17/25 12:25	1	WG2469633
DUP	R4187495-3	02	03/17/25 12:25	1	WG2469633
LCS	R4187495-2	03	03/17/25 12:25	1	WG2469633
OS	L1835262-12	05	03/17/25 12:25		
CLINTON-SCHOOL-DITCH-S-SO	L1835560-01	10	03/17/25 12:25	1	WG2469633
18-901-S-SO	L1835560-02	11	03/17/25 12:25	1	WG2469633
K-18-S-SO	L1835560-03	12	03/17/25 12:25	1	WG2469633

Total Solids WetChem Prep Benchsheet

Batch: WG2469633

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835262	WG2469549	BJM688	PREPREPBAL4	14-MAR-25
L1835347	WG2469565	BJM688	PREPREPBAL4	14-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25

Analyst: CMB3616 **Prep Start Date/Time:** 03/17/25 12:18-12:19 **Prep End Date/Time:** 03/18/25 08:07 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL3 **LCS True Value:** 50

LCS: 24L13176 Amt. Used: 50 Exp. Date:06/13/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				G1	1.298	1.298	1.297	1.297	0	0.001	99.999						KDW475	03/18/25 08:08:21
LCS				G2	1.296	11.298	6.295	6.295	0	49.98	50.02	99.96	100.04				KDW475	03/18/25 08:08:21
DUP(L1835262-12)				G3	1.305	8.835	8.414	8.414	0	94.409	5.591			0.03	0.43	0314PP4	KDW475	03/18/25 08:08:21
1. L1835262-11	SS		03/10/25 13:10	G4	1.313	10.132	9.384	9.383	0.001	91.507	8.493					0314PP4	KDW475	03/18/25 08:08:21
2. L1835262-12	SS		03/10/25 13:36	G5	1.302	9.031	8.599	8.597	0.002	94.3848	5.6152						KDW475	03/18/25 08:08:21
3. L1835262-13	SS		03/10/25 13:36	G6	1.301	9.721	9.240	9.239	0.001	94.2755	5.7245					0314PP4	KDW475	03/18/25 08:08:21
4. L1835262-14	SS		03/10/25 13:48	G7	1.298	7.931	6.713	6.711	0.002	81.6071	18.3929					0314PP4	KDW475	03/18/25 08:08:21
5. L1835347-01	SS	AL	03/11/25 08:05	G8	1.301	10.389	9.454	9.452	0.002	89.6897	10.3103					0314PP4	KDW475	03/18/25 08:08:21
6. L1835347-02	SS	AL	03/11/25 08:10	G9	1.297	9.511	8.689	8.688	0.001	89.9805	10.0195					0314PP4	KDW475	03/18/25 08:08:21
7. L1835560-01	SS	MO	03/11/25 08:10	G10	1.315	9.729	7.422	7.423	0.001	72.5933	27.4067					0314PP4	KDW475	03/18/25 08:08:21
8. L1835560-02	SS	MO	03/11/25 09:00	G11	1.300	9.675	7.257	7.257	0	71.1284	28.8716					0314PP4	KDW475	03/18/25 08:08:21
9. L1835560-03	SS	MO	03/11/25 09:40	G12	1.299	11.227	7.586	7.587	0.001	63.336	36.664						KDW475	03/18/25 08:08:21

Comments:

Reviewed By:KDW475 on 03/18/25 08:08:21

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/17/25 12:25:14	104	104	03/18/25 05:46:02	104	104	BLANK, LCS, DUP(L1835262-12), L1835262-11, L1835560-03, L1835560-02, L1835560-01, L1835347-02, L1835347-01, L1835262-14, L1835262-13, L1835262-12
2	Oven-1hr	03/18/25 05:48:10	104	104	03/18/25 08:04:44	104	104	BLANK, LCS, DUP(L1835262-12), L1835262-11, L1835262-12, L1835262-13, L1835262-14, L1835347-01, L1835347-02, L1835560-01, L1835560-02, L1835560-03

Total Solids WetChem Prep Benchsheet

Batch: WG2469634

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835095	WG2469547	BJM688	PREPREPBAL4	14-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25

Analyst: MT3521 **Prep Start Date/Time:** 03/15/25 14:30-14:32 **Prep End Date/Time:** 03/17/25 09:27 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL1 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				BB1	1.286	1.286	1.286	1.287	0.001	0.001	99.999						CMB3616	03/17/25 09:27:27
LCS				BB2	1.294	11.296	6.296	6.298	0.002	50.03	49.97	100.06	99.94				CMB3616	03/17/25 09:27:27
DUP(L1835560-04)				BB3	1.294	4.565	3.348	3.350	0.002	62.8554	37.1446			3.04	5.37		CMB3616	03/17/25 09:27:27
1. L1835095-05	SS	OR	02/27/25 13:12	BB4	1.282	6.942	6.514	6.514	0	92.4382	7.5618					0314PP4	CMB3616	03/17/25 09:27:27
2. L1835095-06	SS	OR	02/27/25 13:35	BB5	1.286	10.157	9.576	9.575	0.001	93.4393	6.5607					0314PP4	CMB3616	03/17/25 09:27:27
3. L1835095-07	SS	OR	02/27/25 14:06	BB6	1.290	11.270	7.846	7.846	0	65.6914	34.3086					0314PP4	CMB3616	03/17/25 09:27:27
4. L1835560-04	SS	MO	03/11/25 10:25	BB7	1.289	6.729	4.811	4.814	0.003	64.7978	35.2022					0314PP4	CMB3616	03/17/25 09:27:27
5. L1835560-05	SS	MO	03/11/25 10:55	BB8	1.283	9.381	6.662	6.664	0.002	66.4485	33.5515					0314PP4	CMB3616	03/17/25 09:27:27
6. L1835560-06	SS	MO	03/11/25 11:35	BB9	1.294	9.153	7.628	7.632	0.004	80.6464	19.3536					0314PP4	CMB3616	03/17/25 09:27:27
7. L1835560-07	SS	MO	03/11/25 15:08	BB10	1.286	8.724	6.310	6.314	0.004	67.5988	32.4012					0314PP4	CMB3616	03/17/25 09:27:27
8. L1835560-08	SS	MO	03/11/25 13:30	BB11	1.287	9.826	7.519	7.522	0.003	73.0179	26.9821					0314PP4	CMB3616	03/17/25 09:27:27
9. L1835568-01	SS	MO	03/11/25 08:10	BB12	1.289	9.833	7.029	7.032	0.003	67.2168	32.7832					0314PP4	CMB3616	03/17/25 09:27:27
10. L1835568-02	SS	MO	03/11/25 09:00	BB13	1.292	11.928	8.618	8.623	0.005	68.9263	31.0737					0314PP4	CMB3616	03/17/25 09:27:27

Comments:

Reviewed By:CMB3616 on 03/17/25 09:27:27

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/15/25 14:45:23	104	104	03/17/25 07:50:49	104	104	BLANK, LCS, DUP(L1835560-04), L1835095-05, L1835568-02, L1835568-01, L1835560-08, L1835560-07, L1835560-06, L1835560-05, L1835560-04, L1835095-07, L1835095-06
2	Oven-1hr	03/17/25 07:53:39	104	104	03/17/25 09:22:46	104	104	BLANK, LCS, DUP(L1835560-04), L1835095-05, L1835095-06, L1835095-07, L1835560-04, L1835560-05, L1835560-06, L1835560-07, L1835560-08, L1835568-01, L1835568-02

3060A/7196A Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-S-SO

Lab Sample ID:	L1835560-01	**SDG:**	L1835560
Client Sample ID:	CLINTON-SCHOOL-DITCH-S-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250317124734	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:47
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.4465 g
Total Solids (%):	72.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.03	2.76

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-02	**SDG:**	L1835560
Client Sample ID:	18-901-S-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	20250317124901	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:49
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5207 g
Total Solids (%):	71.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.06	2.81

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-03	**SDG:**	L1835560
Client Sample ID:	K-18-S-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	20250317124918	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:49
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.6053 g
Total Solids (%):	63.3	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.19	3.16

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-04	**SDG:**	L1835560
Client Sample ID:	P-230-S-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	20250317124937	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:49
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4293 g
Total Solids (%):	64.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.16	3.09

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-05	**SDG:**	L1835560
Client Sample ID:	P-350-S-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	20250317124953	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:49
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.6062 g
Total Solids (%):	66.4	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.13	3.01

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
NHR-S-SO

Lab Sample ID:	L1835560-06	**SDG:**	L1835560
Client Sample ID:	NHR-S-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125031	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:50
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4553 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6 O1	0.931	2.48

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-07	**SDG:**	L1835560
Client Sample ID:	FLYASH-S-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	20250317125215	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:52
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4352 g
Total Solids (%):	67.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.11	2.96

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-S-SO

Lab Sample ID:	L1835560-08	**SDG:**	L1835560
Client Sample ID:	MONTROSE-LAKE-S-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	20250317125223	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:52
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4388 g
Total Solids (%):	73.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.03	2.74

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-1	**SDG:**	L1835560
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250317124404	**Received Date/Time:**	
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:44
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.4222 g
Total Solids (%):		**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-3	**SDG:**	L1835560
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	20250317124631	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:46
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4416 g
Total Solids (%):	67.3	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	1.56	J	1.12	2.97

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-2	**SDG:**	L1835560
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250317124412	**Received Date/Time:**	
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:44
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.4413 g
Total Solids (%):		**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	26.5		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-8	**SDG:**	L1835560
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125556	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:55
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4605 g
Total Solids (%):	83.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.904	2.41

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-5	**SDG:**	L1835560
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125104	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:51
Dilution Factor:	50	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4358 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	304	J6	46.6	124

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-6	**SDG:**	L1835560
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125114	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:51
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4279 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6	0.931	2.48

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-7	**SDG:**	L1835560
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125154	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:51
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4128 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6	0.931	2.48

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-4	**SDG:**	L1835560
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125050	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:50
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4553 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	1.77	J O1	0.931	2.48

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844
Concentration Units:	mg/L		

		ICV				CCV				CCV			
Sample ID:		DR6000-3031725124355				DR6000-3031725124813				DR6000-3031725125016			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20.50	21.03798	103		20.50	20.99705	102		20.50	20.99705	102	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844
Concentration Units:	mg/L		

		CCV				CCV				CCV			
Sample ID:		DR6000-3031725125243				DR6000-3031725125444				DR6000-3031725125714			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20.50	20.87426	102		20.50	20.95612	102		20.50	20.87426	102	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1835560	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250317124404		20250317124822		20250317125023		20250317125251	
Analyte	mg/kg		mg/L		mg/L		mg/L	
CHROMIUM,HEXAVALENT	U		-0.002000		-0.001000		0.0000	

SDG:	L1835560	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250317125451		20250317125721	
Analyte	mg/L		mg/L	
CHROMIUM,HEXAVALENT	0.0000		0.001000	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835560-01,02,03,04,05,06,07,08

SAMPLE NO.: R4187196-5

MS Sample / File ID:	R4187196-5 / 20250317125104	**SDG:**	L1835560
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2467844
OS Sample / File ID:	L1835560-06 / 20250317125031	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	818	U	304		37.2*		50	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835560-01,02,03,04,05,06,07,08

SAMPLE NO.:
R4187196-6
R4187196-7

MS Sample / File ID:	R4187196-6 / 20250317125114	**SDG:**	L1835560
MSD Sample / File ID:	R4187196-7 / 20250317125154	**Analytical Batch:**	WG2467844
OS Sample / File ID:	L1835560-06 / 20250317125031	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	24.8	U	U	U	0.000*	0.000*	1	75.0 - 125	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5B-IN

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1835560-01,02,03,04,05,06,07,08

SAMPLE NO.: R4187196-4

PS Sample / File ID:	R4187196-4 / 20250317125050	**SDG:**	L1835560
OS Sample / File ID:	L1835560-06 / 20250317125031	**Analytical Batch:**	WG2467844
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	31.0	U	1.77		5.70*		1	75.0 - 125	*	

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187196-3 / 20250317124631	**SDG:**	L1835560
OS Sample / File ID:	L1834664-10 / 20250317124602	**Analytical Batch:**	WG2467844
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	1.65	1.56	5.68	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187196-8 / 20250317125556	**SDG:**	L1835560
OS Sample / File ID:	L1835568-06 / 20250317125514	**Analytical Batch:**	WG2467844
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835560-01,02,03,04,05,06,07,08

SAMPLE NO.:
R4187196-2

LCS Sample / File ID:	R4187196-2 / 20250317124412	**SDG:**	L1835560
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467844
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Chromium,Hexavalent	24.0	26.5		110		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835560-01,02,03,04,05,06,07,08
Matrix: Solid
Analytical Method: 3060A/7196A
Prep Method: 3060A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Chromium,Hexavalent	18540-29-9			0.7510	2

ANALYSIS LOG

SDG:	L1835560	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	_____
Analytical Run:	WG2420318	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0	50	12/19/24 15:00		
CAL	.01	51	12/19/24 15:00		
CAL	.02	52	12/19/24 15:00		
CAL	.05	53	12/19/24 15:00		
CAL	.1	54	12/19/24 15:00		
CAL	.5	55	12/19/24 15:00		
CAL	1	56	12/19/24 15:00		

ANALYSIS LOG

SDG:	L1835560	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	12/19/24 15:00
Analytical Run:	WG2467844	**Calibration End Date:**	12/19/24 15:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-3031725124355	20250317124355	03/17/25 12:43		
BLANK	R4187196-1	20250317124404	03/17/25 12:44	1	WG2467844
LCS	R4187196-2	20250317124412	03/17/25 12:44	1	WG2467844
OS	L1834664-10	20250317124602	03/17/25 12:46		
L1834664-10	L1834664-10	20250317124602	03/17/25 12:46	1	WG2467844
DUP	R4187196-3	20250317124631	03/17/25 12:46	1	WG2467844
L1834664-11	L1834664-11	20250317124640	03/17/25 12:46	1	WG2467844
L1835388-02	L1835388-02	20250317124706	03/17/25 12:47	10	WG2467844
CLINTON-SCHOOL-DITCH-S-SO	L1835560-01	20250317124734	03/17/25 12:47	1	WG2467844
CCV	DR6000-3031725124813	20250317124813	03/17/25 12:48		
CCB	DR6000-3031725124822	20250317124822	03/17/25 12:48		
18-901-S-SO	L1835560-02	20250317124901	03/17/25 12:49	1	WG2467844
K-18-S-SO	L1835560-03	20250317124918	03/17/25 12:49	1	WG2467844
P-230-S-SO	L1835560-04	20250317124937	03/17/25 12:49	1	WG2467844
P-350-S-SO	L1835560-05	20250317124953	03/17/25 12:49	1	WG2467844
CCV	DR6000-3031725125016	20250317125016	03/17/25 12:50		
CCB	DR6000-3031725125023	20250317125023	03/17/25 12:50		
NHR-S-SO	L1835560-06	20250317125031	03/17/25 12:50	1	WG2467844
PS	R4187196-4	20250317125050	03/17/25 12:50	1	WG2467844
MS	R4187196-5	20250317125104	03/17/25 12:51	50	WG2467844
MS	R4187196-6	20250317125114	03/17/25 12:51	1	WG2467844
MSD	R4187196-7	20250317125154	03/17/25 12:51	1	WG2467844
FLYASH-S-SO	L1835560-07	20250317125215	03/17/25 12:52	1	WG2467844
MONTROSE-LAKE-S-SO	L1835560-08	20250317125223	03/17/25 12:52	1	WG2467844
CCV	DR6000-3031725125243	20250317125243	03/17/25 12:52		
CCB	DR6000-3031725125251	20250317125251	03/17/25 12:52		
CCV	DR6000-3031725125444	20250317125444	03/17/25 12:54		
CCB	DR6000-3031725125451	20250317125451	03/17/25 12:54		
OS	L1835568-06	20250317125514	03/17/25 12:55		
L1835568-06	L1835568-06	20250317125514	03/17/25 12:55	1	WG2467844
DUP	R4187196-8	20250317125556	03/17/25 12:55	1	WG2467844
L1835568-07	L1835568-07	20250317125633	03/17/25 12:56	1	WG2467844
L1835568-08	L1835568-08	20250317125649	03/17/25 12:56	1	WG2467844
L1835568-09	L1835568-09	20250317125657	03/17/25 12:56	1	WG2467844
CCV	DR6000-3031725125714	20250317125714	03/17/25 12:57		
CCB	DR6000-3031725125721	20250317125721	03/17/25 12:57		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.01	.007658858	76.60	0.02	.018552278	92.80
File ID:		51			52	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.05	.047964512	95.90	0.10	.094806218	94.80
File ID:		53			54	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.50	.529453676	106	1	.984798632	98.50
File ID:		55			56	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1835560	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CHROMIUM,HEXAVALENT	0	5	0.999332			1.089342	-0.003235	

Calibration Type

0 = Linear Regression

Weightage

5 = None

Created: 12/19/24 15:26

Instrument: DR6000-3

Calibration Date: 12/19/24 15:00

Program Name: CR6 SS 12/19/2024 ARV4164

Wavelength: 540.0 nm

Analytical Method: 7196A SS

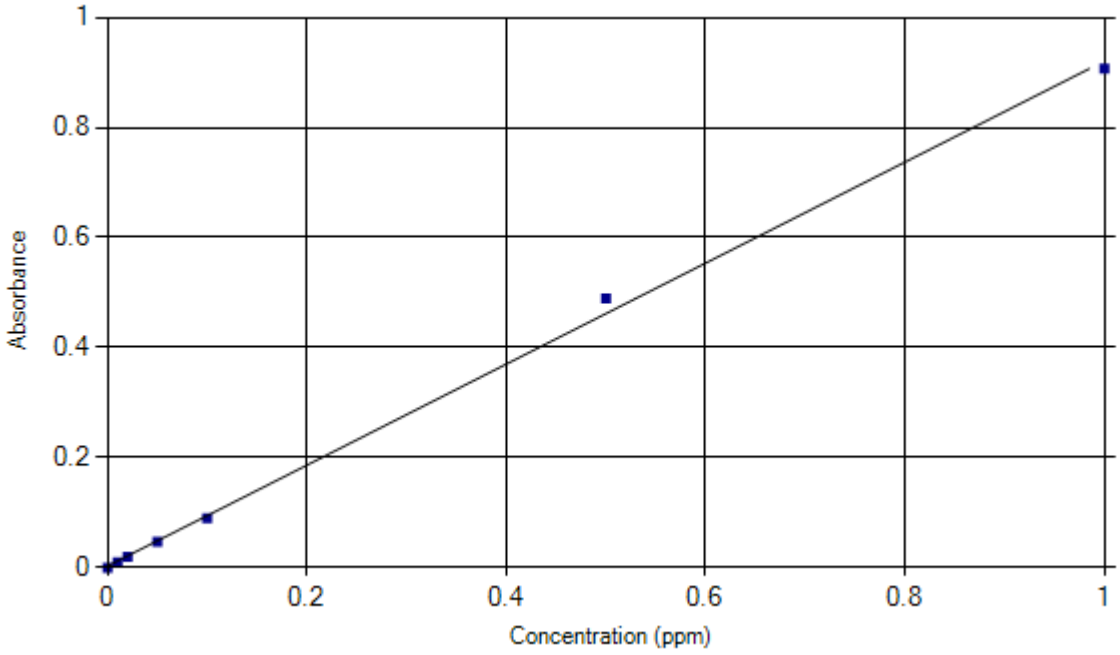
Analyte: CR6

Calibration Equation: Concentration = -0.003234562 + 1.089342 * Absorbance

Standard ID: 24L19163

ppm	Absorbance
0	0
0.01	0.01
0.02	0.02
0.05	0.047
0.1	0.090
0.5	0.489
1	0.907

R = 0.9993323



Instrument: DR6000-3

Created: 03/17/25 13:00

Serial Number: 1894098

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/17/25 12:43:55	CR6	CR6 SS 12/19/2024 ARV4164	ICV	1	0.514	mg/L	0.475
03/17/25 12:44:04	CR6	CR6 SS 12/19/2024 ARV4164	BLANK WG2467844	1	-0.002	mg/L	0.001
03/17/25 12:44:12	CR6	CR6 SS 12/19/2024 ARV4164	LCS WG2467844	1	0.646	mg/L	0.596
03/17/25 12:46:02	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-10 WG2467844	1	0.081	mg/L	0.077
03/17/25 12:46:22	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-10-SB WG2467844	1	0.054	mg/L	0.052
03/17/25 12:46:31	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1834664-10 WG2467844	1	0.080	mg/L	0.076
03/17/25 12:46:40	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-11 WG2467844	1	0.072	mg/L	0.068
03/17/25 12:46:49	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-11-SB WG2467844	1	0.069	mg/L	0.067
03/17/25 12:47:06	CR6	CR6 SS 12/19/2024 ARV4164	L1835388-02 WG2467844	10.000	0.5167	mg/L	0.477
03/17/25 12:47:15	CR6	CR6 SS 12/19/2024 ARV4164	L1835388-02-SB WG2467844	10.000	-0.0044	mg/L	-0.001
03/17/25 12:47:34	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-01 WG2467844	1	0.039	mg/L	0.039
03/17/25 12:48:13	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.513	mg/L	0.473
03/17/25 12:48:22	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.002	mg/L	0.001
03/17/25 12:48:31	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-01-SB WG2467844	1	0.040	mg/L	0.040
03/17/25 12:49:01	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-02 WG2467844	1	0.031	mg/L	0.031
03/17/25 12:49:10	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-02-SB WG2467844	1	0.033	mg/L	0.033
03/17/25 12:49:18	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-03 WG2467844	1	0.137	mg/L	0.128
03/17/25 12:49:28	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-03-SB WG2467844	1	0.143	mg/L	0.134
03/17/25 12:49:37	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-04 WG2467844	1	0.163	mg/L	0.152
03/17/25 12:49:45	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-04-SB WG2467844	1	0.162	mg/L	0.151
03/17/25 12:49:53	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-05 WG2467844	1	0.110	mg/L	0.103
03/17/25 12:50:02	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-05-SB WG2467844	1	0.128	mg/L	0.120
03/17/25 12:50:16	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.513	mg/L	0.474
03/17/25 12:50:23	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.001	mg/L	0.002
03/17/25 12:50:31	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-06 WG2467844	1	0.081	mg/L	0.077
03/17/25 12:50:41	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-06-SB WG2467844	1	0.077	mg/L	0.073
03/17/25 12:50:50	CR6	CR6 SS 12/19/2024 ARV4164	PS L1835560-06 WG2467844	1	0.112	mg/L	0.105
03/17/25 12:51:04	CR6	CR6 SS 12/19/2024 ARV4164	IMS L1835560-06 WG2467844	50.000	0.11956	mg/L	0.113
03/17/25 12:51:14	CR6	CR6 SS 12/19/2024 ARV4164	MS L1835560-06 WG2467844	1	0.087	mg/L	0.083
03/17/25 12:51:54	CR6	CR6 SS 12/19/2024 ARV4164	MSD L1835560-06 WG2467844	1	0.089	mg/L	0.084
03/17/25 12:52:15	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-07 WG2467844	1	0.001	mg/L	0.004
03/17/25 12:52:23	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-08 WG2467844	1	0.023	mg/L	0.024
03/17/25 12:52:31	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-08-SB WG2467844	1	0.023	mg/L	0.024
03/17/25 12:52:43	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.510	mg/L	0.471
03/17/25 12:52:51	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	0.000	mg/L	0.002
03/17/25 12:53:00	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-01 WG2467844	1	0.047	mg/L	0.046
03/17/25 12:53:08	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-01-SB WG2467844	1	0.045	mg/L	0.044
03/17/25 12:53:16	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-02 WG2467844	1	0.088	mg/L	0.084
03/17/25 12:53:25	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-02-SB WG2467844	1	0.099	mg/L	0.094

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/17/25 12:53:51	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-03 WG2467844	1	0.087	mg/L	0.083
03/17/25 12:54:06	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-03-SB WG2467844	1	0.095	mg/L	0.090
03/17/25 12:54:17	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-04 WG2467844	1	0.037	mg/L	0.037
03/17/25 12:54:25	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-04-SB WG2467844	1	0.042	mg/L	0.041
03/17/25 12:54:34	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-05 WG2467844	1	0.082	mg/L	0.078
03/17/25 12:54:44	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.512	mg/L	0.473
03/17/25 12:54:51	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	0.000	mg/L	0.003
03/17/25 12:55:01	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-05-SB WG2467844	1	0.086	mg/L	0.082
03/17/25 12:55:14	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-06 WG2467844	1	0.099	mg/L	0.094
03/17/25 12:55:25	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-06-SB WG2467844	1	0.109	mg/L	0.103
03/17/25 12:55:56	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1835568-06 WG2467844	1	0.100	mg/L	0.095
03/17/25 12:56:33	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-07 WG2467844	1	0.070	mg/L	0.067
03/17/25 12:56:41	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-07-SB WG2467844	1	0.072	mg/L	0.069
03/17/25 12:56:49	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-08 WG2467844	1	0.001	mg/L	0.003
03/17/25 12:56:57	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-09 WG2467844	1	0.017	mg/L	0.018
03/17/25 12:57:05	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-09-SB WG2467844	1	0.015	mg/L	0.017
03/17/25 12:57:14	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.510	mg/L	0.471
03/17/25 12:57:21	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	0.001	mg/L	0.004

CR6 SS WetChem Prep Benchsheet

Batch: WG2467844

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25

Analyst: DLS4135 **Prep Start Date/Time:** 03/15/25 12:00 **Prep End Date/Time:** 03/17/25 11:50 **Dig Start Date/Time:** 03/15/25 15:53:00
Dig End Date/Time: 03/15/25 18:24:00 **Dig Start Analyst:** DLS4135 **Dig End Analyst:** DLS4135 **Digest Soln. pH:** 13.13 **Phosphate Buffer pH:** 6.66
SOP: MTJL-0153 **Method:** 3060A **Balance ID:** WETBAL9 **1mL Auto Pipette SN:** VU32730 **0.5mL/1mL Auto Pipette Tips Lot#:** 25010044 **ThermoID:** 1053718
ThermoCorrectFact: -0.5 **ThermoPosition/Temp1(C°)/Temp2(C°):** C4/91.3/93.7 **10mL Pipette Lot #:** NA **Transfer Pipette Lot#:** 24500406 **Filter Lot#:** 329076081
pH Strip Lot#: 10BDH40241 **Tongue Depressor Lot#:** P00638 **0.5mL Auto Pipette S/N:** NA **1mL glass pipette Lot#:** NA **Cuvette Lot#:** NA
Cal and Stds Workgroup: NA **Hotblock ID:** 2021CECW5460 **Centrifuge Tube Lot#:** 25009600 **10mL Syringe Lot#:** 241125 **IR Gun ID:** CP52532
Thermometer Location: C4 **Tmer SN:** 240243854

ICV Standard: 25C17479 Amt. Used: 5 mL Exp. Date:03/18/25 **LCS/D Standard:** 25C17470 Amt. Used: 6 mL Exp. Date:03/18/25
MS/D Standard: 25C17470 Amt. Used: 5 mL Exp. Date:03/18/25 **Post spike:** 25C17470 Amt. Used: 0.60 mL Exp. Date:03/18/25
Digestion Solution: 25C15308 Amt. Used: 50 mL Exp. Date:09/15/25 **5N HNO3:** 25B18331 Amt. Used: 3 Exp. Date:07/07/25
Phosphate Buffer: 25B18330 Amt. Used: 0.50 mL Exp. Date:04/03/25 **H2SO4:** 25B20586 Amt. Used: 3 Exp. Date:08/20/25
Color Reagent: 25C13008 Amt. Used: 0.50 mL Exp. Date:03/20/25 **PbCrO4:** 25A21864 Amt. Used: 0.01 g Exp. Date:01/01/34
Sand: 25A29129 Amt. Used: 2.50 g Exp. Date:07/29/25 **MgCl2:** 25A31532 Amt. Used: 0.40 g Exp. Date:07/31/25
Acetone: 25B26662 Amt. Used: 0.50 mL Exp. Date:08/26/25

Sample Number	Initial Sample Wt. (g)	Final Volume (mL)	Dilution Factor	Adjusted pH	Review Analyst	Review Date
ICV	2.4432	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
BLANK	2.4222	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
LCS	2.4413	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
1. L1834664-10	2.4266	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
2. L1834664-11	2.4561	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
3. L1835388-02	2.5269	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
4. L1835560-01	2.4465	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
5. L1835560-02	2.5207	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
6. L1835560-03	2.6053	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
7. L1835560-04	2.4293	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
8. L1835560-05	2.6062	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
9. L1835560-06	2.4553	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
10. L1835560-07	2.4352	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
11. L1835560-08	2.4388	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
12. L1835568-01	2.5163	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
13. L1835568-02	2.6772	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
14. L1835568-03	2.4339	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
15. L1835568-04	2.5219	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
16. L1835568-05	2.4573	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
17. L1835568-06	2.4633	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
18. L1835568-07	2.4112	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
19. L1835568-08	2.4753	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
20. L1835568-09	2.6825	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
DUP(L1834664-10)	2.4416	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
DUP(L1835568-06)	2.4605	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
MS(L1835560-06)	2.4279	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
MSD(L1835560-06)	2.4128	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
Ins MS(L1835560-06)	2.4358	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00

Comments:

Reviewed By:PAN4313 on 03/17/25 12:34:00

#	Type	Thermometer	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	IR Gun 1	1053718	-0.6	03/15/25 15:23:07	91.3	90.7	03/15/25 15:53:32	93.7	93.1	ICV, BLANK, LCS, L1834664-10, L1835568-09, L1835568-08, L1835568-07, L1835568-06, L1835568-05, L1835568-04, L1835568-03, L1835568-02, L1835568-01, L1835560-08, L1835560-07, L1835560-06, L1835560-05, L1835560-04, L1835560-03, L1835560-02, L1835560-01, L1835388-02, L1834664-11, DUP(L1834664-10), DUP(L1835568-06), MS(L1835560-06), MSD(L1835560-06), Ins MS(L1835560-06)
2	IR Gun 1	1053718	-0.6	03/15/25 15:53:25	93.7	93.1	03/15/25 16:24:47	95.0	94.4	ICV, BLANK, LCS, L1834664-10, L1834664-11, L1835388-02, L1835560-01, L1835560-02, L1835560-03, L1835560-04, L1835560-05, L1835560-06, L1835560-07, L1835560-08, L1835568-01, L1835568-02, L1835568-03, L1835568-04, L1835568-05, L1835568-06, L1835568-07, L1835568-08, L1835568-09, DUP(L1834664-10), DUP(L1835568-06), MS(L1835560-06), MSD(L1835560-06), Ins MS(L1835560-06)

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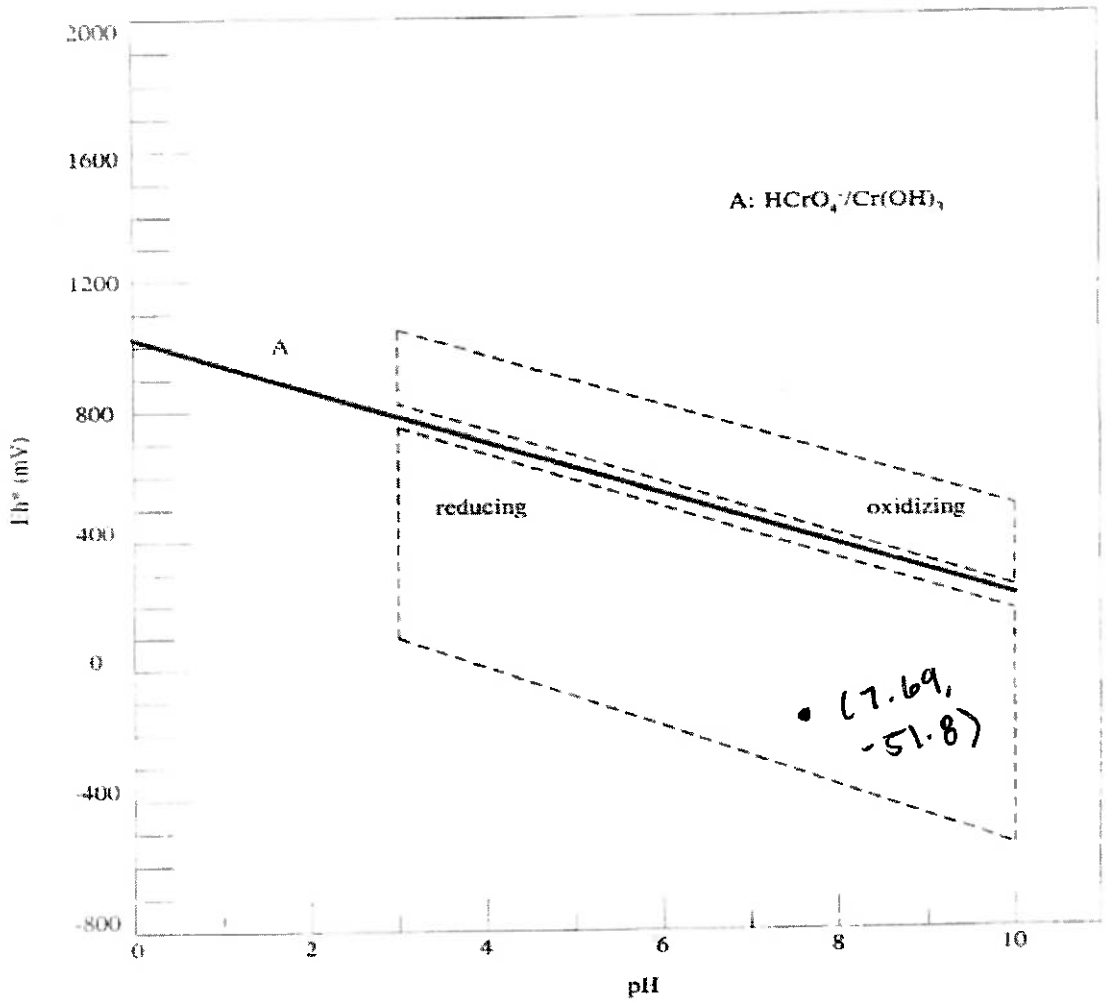
STANDARD OPERATING PROCEDURE
TITLE: ENV-SOP-MTJL-0153 Hexavalent Chromium (colorimetric) in Solid Material (EPA Methods 7196A and 3060A)
ISSUER: Pace National – Mt. Juliet, Tennessee

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PAN4313
03/17/25

Attachment III: Eh/pH Phase Diagram

The dashed lines define Eh-pH boundaries commonly encountered in soils and sediments



* Note the Eh values plotted on this diagram are corrected for the reference electrode voltage: 244 mV units must be added to the measured value when a separate calomel electrode is used, or 199 mV units must be added if a combination platinum electrode is used

WG2467844
L1835560-06

pH = 7.69
mV = -51.8

6010D Metals (ICP)

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-S-SO

Lab Sample ID:	L1835560-01	**SDG:**	L1835560
Client Sample ID:	CLINTON-SCHOOL-DITCH-S-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250317115456	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:54
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	72.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.42	J	1.15	2.76
Barium	7440-39-3	71.0		0.117	0.689
Boron	7440-42-8	U		6.20	27.6
Cadmium	7440-43-9	0.326	J	0.0900	0.689
Chromium	7440-47-3	11.1		0.295	1.38
Cobalt	7440-48-4	6.95		0.244	1.38
Lead	7439-92-1	29.2		0.449	0.689
Lithium	7439-93-2	6.48	J	0.558	6.89
Selenium	7782-49-2	U		1.47	2.76
Silver	7440-22-4	U		0.175	1.38

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-02	**SDG:**	L1835560
Client Sample ID:	18-901-S-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	20250317115636	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:56
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	71.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	3.40		1.18	2.81
Barium	7440-39-3	105		0.120	0.703
Boron	7440-42-8	U		6.33	28.1
Cadmium	7440-43-9	0.123	J	0.0918	0.703
Chromium	7440-47-3	17.4		0.301	1.41
Cobalt	7440-48-4	8.18		0.249	1.41
Lead	7439-92-1	16.8		0.458	0.703
Lithium	7439-93-2	11.6		0.569	7.03
Selenium	7782-49-2	U		1.50	2.81
Silver	7440-22-4	0.343	J	0.179	1.41

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-03	**SDG:**	L1835560
Client Sample ID:	K-18-S-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	20250317115817	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:58
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	63.3	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	5.32		1.32	3.16
Barium	7440-39-3	143		0.134	0.789
Boron	7440-42-8	U		7.10	31.6
Cadmium	7440-43-9	0.435	J	0.103	0.789
Chromium	7440-47-3	18.4		0.338	1.58
Cobalt	7440-48-4	9.17		0.279	1.58
Lead	7439-92-1	48.0		0.515	0.789
Lithium	7439-93-2	10.0		0.639	7.89
Selenium	7782-49-2	U		1.69	3.16
Silver	7440-22-4	0.703	J	0.201	1.58

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-04	**SDG:**	L1835560
Client Sample ID:	P-230-S-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	20250317115957	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:59
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	64.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	6.60		1.29	3.09
Barium	7440-39-3	195		0.131	0.772
Boron	7440-42-8	U		6.94	30.9
Cadmium	7440-43-9	0.343	J	0.101	0.772
Chromium	7440-47-3	24.8		0.330	1.54
Cobalt	7440-48-4	14.0		0.273	1.54
Lead	7439-92-1	28.9		0.503	0.772
Lithium	7439-93-2	12.4		0.625	7.72
Selenium	7782-49-2	U		1.65	3.09
Silver	7440-22-4	1.08	J	0.196	1.54

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-05	**SDG:**	L1835560
Client Sample ID:	P-350-S-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	20250317120138	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 12:01
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.52 g
Total Solids (%):	66.4	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	3.28		1.26	3.01
Barium	7440-39-3	177		0.128	0.752
Boron	7440-42-8	U		6.77	30.1
Cadmium	7440-43-9	0.372	J	0.0983	0.752
Chromium	7440-47-3	15.8		0.322	1.50
Cobalt	7440-48-4	6.30		0.266	1.50
Lead	7439-92-1	23.2		0.491	0.752
Lithium	7439-93-2	9.08		0.609	7.52
Selenium	7782-49-2	U		1.61	3.01
Silver	7440-22-4	0.400	J	0.191	1.50

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
NHR-S-SO

Lab Sample ID:	L1835560-06	**SDG:**	L1835560
Client Sample ID:	NHR-S-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250316175421	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:56
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/16/25 17:54
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	1.42	J	1.04	2.48
Barium	7440-39-3	136	O1	0.105	0.620
Boron	7440-42-8	11.3	J	5.58	24.8
Cadmium	7440-43-9	1.37		0.0810	0.620
Chromium	7440-47-3	12.6		0.265	1.24
Cobalt	7440-48-4	6.80		0.219	1.24
Lead	7439-92-1	35.0		0.404	0.620
Selenium	7782-49-2	U		1.33	2.48
Silver	7440-22-4	U		0.157	1.24

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-06	**SDG:**	L1835560
Client Sample ID:	NHR-S-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317123520	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:56
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/17/25 12:35
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Lithium	7439-93-2	9.73		0.502	6.20

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
FLYASH-S-SO

Lab Sample ID:	L1835560-07	**SDG:**	L1835560
Client Sample ID:	FLYASH-S-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	20250317120319	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 12:03
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	67.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	11.9		1.24	2.96
Barium	7440-39-3	2760		0.126	0.740
Boron	7440-42-8	376		6.66	29.6
Cadmium	7440-43-9	0.946		0.0966	0.740
Chromium	7440-47-3	42.4		0.317	1.48
Cobalt	7440-48-4	21.8		0.262	1.48
Lead	7439-92-1	28.1		0.482	0.740
Lithium	7439-93-2	30.9		0.599	7.40
Selenium	7782-49-2	2.23	J	1.58	2.96
Silver	7440-22-4	0.482	J	0.188	1.48

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-S-SO

Lab Sample ID:	L1835560-08	**SDG:**	L1835560
Client Sample ID:	MONTROSE-LAKE-S-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	20250317120459	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 12:04
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	73.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	9.53		1.15	2.74
Barium	7440-39-3	133		0.116	0.685
Boron	7440-42-8	U		6.16	27.4
Cadmium	7440-43-9	0.902		0.0894	0.685
Chromium	7440-47-3	15.8		0.293	1.37
Cobalt	7440-48-4	13.4		0.242	1.37
Lead	7439-92-1	27.5		0.446	0.685
Lithium	7439-93-2	6.33	J	0.555	6.85
Selenium	7782-49-2	U		1.47	2.74
Silver	7440-22-4	1.12	J	0.174	1.37

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187055-1	**SDG:**	L1835560
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250316175101	**Received Date/Time:**	_____
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:55
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/16/25 17:51
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**MDL**	**RDL**
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		0.837	2.00
Barium	7440-39-3	U		0.0850	0.500
Boron	7440-42-8	U		4.50	20.0
Cadmium	7440-43-9	U		0.0653	0.500
Chromium	7440-47-3	U		0.214	1.00
Cobalt	7440-48-4	U		0.177	1.00
Lead	7439-92-1	U		0.326	0.500
Selenium	7782-49-2	U		1.07	2.00
Silver	7440-22-4	U		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187246-1	**SDG:**	L1835560
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250317123158	**Received Date/Time:**	
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:55
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/17/25 12:31
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Lithium	7439-93-2	U		0.405	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187254-1	**SDG:**	L1835560
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250317113449	**Received Date/Time:**	
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:42
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:34
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		0.837	2.00
Barium	7440-39-3	U		0.0850	0.500
Boron	7440-42-8	U		4.50	20.0
Cadmium	7440-43-9	U		0.0653	0.500
Chromium	7440-47-3	U		0.214	1.00
Cobalt	7440-48-4	U		0.177	1.00
Lead	7439-92-1	U		0.326	0.500
Lithium	7439-93-2	U		0.405	5.00
Selenium	7782-49-2	U		1.07	2.00
Silver	7440-22-4	U		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187055-2	**SDG:**	L1835560
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250316175241	**Received Date/Time:**	_____
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:55
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/16/25 17:52
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**MDL**	**RDL**
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	95.9		0.837	2.00
Barium	7440-39-3	92.1		0.0850	0.500
Boron	7440-42-8	88.9		4.50	20.0
Cadmium	7440-43-9	95.4		0.0653	0.500
Chromium	7440-47-3	89.3		0.214	1.00
Cobalt	7440-48-4	87.2		0.177	1.00
Lead	7439-92-1	91.8		0.326	0.500
Selenium	7782-49-2	93.1		1.07	2.00
Silver	7440-22-4	17.4		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187246-2	**SDG:**	L1835560
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250317123339	**Received Date/Time:**	_____
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:55
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/17/25 12:33
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Lithium	7439-93-2	89.8		0.405	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187254-2	**SDG:**	L1835560
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250317113630	**Received Date/Time:**	
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:42
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:36
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	113		0.837	2.00
Barium	7440-39-3	102		0.0850	0.500
Boron	7440-42-8	102		4.50	20.0
Cadmium	7440-43-9	111		0.0653	0.500
Chromium	7440-47-3	101		0.214	1.00
Cobalt	7440-48-4	99.0		0.177	1.00
Lead	7439-92-1	106		0.326	0.500
Lithium	7439-93-2	95.4		0.405	5.00
Selenium	7782-49-2	112		1.07	2.00
Silver	7440-22-4	19.8		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187055-5	**SDG:**	L1835560
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250316175922	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:55
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/16/25 17:59
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.52 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	116		1.04	2.48
Barium	7440-39-3	258		0.105	0.620
Boron	7440-42-8	118		5.58	24.8
Cadmium	7440-43-9	112		0.0810	0.620
Chromium	7440-47-3	120		0.265	1.24
Cobalt	7440-48-4	126		0.219	1.24
Lead	7439-92-1	153		0.404	0.620
Selenium	7782-49-2	109		1.33	2.48
Silver	7440-22-4	21.9		0.157	1.24

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187246-5	**SDG:**	L1835560
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317124022	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:55
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/17/25 12:40
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.52 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Lithium	7439-93-2	148		0.502	6.20

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187254-5	**SDG:**	L1835560
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 09:20
Lab File ID:	20250317114312	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:43
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	98.6		0.837	2.00
Barium	7440-39-3	238		0.0850	0.500
Boron	7440-42-8	95.4		4.50	20.0
Cadmium	7440-43-9	93.0		0.0653	0.500
Chromium	7440-47-3	101		0.214	1.00
Cobalt	7440-48-4	113		0.177	1.00
Lead	7439-92-1	134		0.326	0.500
Lithium	7439-93-2	119		0.405	5.00
Selenium	7782-49-2	88.4		1.07	2.00
Silver	7440-22-4	18.4		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187055-6	**SDG:**	L1835560
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250316180102	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:55
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/16/25 18:01
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	122		1.04	2.48
Barium	7440-39-3	262		0.105	0.620
Boron	7440-42-8	124		5.58	24.8
Cadmium	7440-43-9	117		0.0810	0.620
Chromium	7440-47-3	127		0.265	1.24
Cobalt	7440-48-4	134		0.219	1.24
Lead	7439-92-1	170		0.404	0.620
Selenium	7782-49-2	115		1.33	2.48
Silver	7440-22-4	23.2		0.157	1.24

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187246-6	**SDG:**	L1835560
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317124203	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:55
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/17/25 12:42
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Lithium	7439-93-2	155		0.502	6.20

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187254-6	**SDG:**	L1835560
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 09:20
Lab File ID:	20250317114452	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:44
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.54 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	96.7		0.837	2.00
Barium	7440-39-3	240		0.0850	0.500
Boron	7440-42-8	93.2		4.50	20.0
Cadmium	7440-43-9	90.6		0.0653	0.500
Chromium	7440-47-3	99.0		0.214	1.00
Cobalt	7440-48-4	111		0.177	1.00
Lead	7439-92-1	134		0.326	0.500
Lithium	7439-93-2	120		0.405	5.00
Selenium	7782-49-2	85.2		1.07	2.00
Silver	7440-22-4	18.2		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187055-4	**SDG:**	L1835560
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250316175742	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:56
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/16/25 17:57
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	129		1.04	2.48
Barium	7440-39-3	251		0.105	0.620
Boron	7440-42-8	128		5.58	24.8
Cadmium	7440-43-9	122		0.0810	0.620
Chromium	7440-47-3	131		0.265	1.24
Cobalt	7440-48-4	141		0.219	1.24
Lead	7439-92-1	165		0.404	0.620
Selenium	7782-49-2	122		1.33	2.48
Silver	7440-22-4	24.2		0.157	1.24

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187246-4	**SDG:**	L1835560
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317123841	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:56
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/17/25 12:38
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Lithium	7439-93-2	154		0.502	6.20

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187254-4	**SDG:**	L1835560
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 09:20
Lab File ID:	20250317114132	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:41
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	105		0.837	2.00
Barium	7440-39-3	232		0.0850	0.500
Boron	7440-42-8	101		4.50	20.0
Cadmium	7440-43-9	97.1		0.0653	0.500
Chromium	7440-47-3	105		0.214	1.00
Cobalt	7440-48-4	118		0.177	1.00
Lead	7439-92-1	139		0.326	0.500
Lithium	7439-93-2	124		0.405	5.00
Selenium	7782-49-2	95.3		1.07	2.00
Silver	7440-22-4	19.5		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187055-3	**SDG:**	L1835560
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250316175601	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:56
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/16/25 17:56
Dilution Factor:	5	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result (dry)** *mg/kg*	**Qualifier**	**MDL (dry)** *mg/kg*	**RDL (dry)** *mg/kg*
Arsenic	7440-38-2	U		5.20	12.4
Barium	7440-39-3	154	O1	0.527	3.10
Boron	7440-42-8	U		27.9	124
Cadmium	7440-43-9	1.91	J	0.405	3.10
Chromium	7440-47-3	15.0		1.33	6.20
Cobalt	7440-48-4	7.02		1.10	6.20
Lead	7439-92-1	36.8		2.02	3.10
Selenium	7782-49-2	U		6.63	12.4
Silver	7440-22-4	U		0.787	6.20

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187246-3	**SDG:**	L1835560
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317123701	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 08:56
Analytical Batch:	WG2469953	**Analysis Date/Time:**	03/17/25 12:37
Dilution Factor:	5	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Lithium	7439-93-2	9.85	J	2.52	31.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187254-3	**SDG:**	L1835560
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 09:20
Lab File ID:	20250317113951	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:39
Dilution Factor:	5	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**MDL**	**RDL**
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	5.75	J	4.19	10.0
Barium	7440-39-3	143		0.425	2.50
Boron	7440-42-8	U		22.5	100
Cadmium	7440-43-9	0.555	J	0.327	2.50
Chromium	7440-47-3	10.6		1.07	5.00
Cobalt	7440-48-4	9.88		0.885	5.00
Lead	7439-92-1	28.3		1.63	2.50
Lithium	7439-93-2	19.1	J	2.03	25.0
Selenium	7782-49-2	U		5.35	10.0
Silver	7440-22-4	U		0.635	5.00

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/16/25 05:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/16/25 05:48
Analytical Method:	6010D	**Analytical Run:**	031625ICP16
Concentration Units:	mg/l		

		ICV				**ICVLL**				**CCV**		
Sample ID:		ICP160316250550-2				ICP160316250602-2				ICP160316251740		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.003228	100	1.060000	0.01	0.01016895	102	78.900000	1	1.037387	104	0.662000
BARIUM	1	1.018967	102	0.769000	0.0050	0.005040119	101	4.830000	0.50	0.499665	99.90	0.430000
BORON	1	0.9870374	98.70	0.832000	0.20	0.1955043	97.80	1.550000	1	0.984605	98.50	0.509000
CADMIUM	1	1.003317	100	0.592000	0.0020	0.001992609	99.60	9.350000	0.50	0.5098297	102	0.613000
CHROMIUM	1	0.9991311	99.90	0.479000	0.01	0.01119358	112	9.380000	1	0.9827902	98.30	0.661000
COBALT	1	0.9506085	95.10	0.616000	0.01	0.01060119	106	5.460000	1	0.9738715	97.40	1.240000
LEAD	1	0.9856196	98.60	0.342000	0.0050	0.005984469	120	23.600000	0.50	0.4970076	99.40	0.372000
SELENIUM	1	0.9764317	97.60	0.875000	0.01	0.008426749	84.30	58.400000	1	1.016738	102	0.347000
SILVER	1	0.9779996	97.80	0.602000	0.0050	0.004351527	87	3.050000	0.50	0.5165223	103	0.238000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/16/25 05:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/16/25 05:48
Analytical Method:	6010D	**Analytical Run:**	031625ICP16
Concentration Units:	mg/l		

CCV

Sample ID: ICP160316251807

Analyte	True	Found	%R	%RSD
ARSENIC	1	1.004244	100	0.656000
BARIUM	0.50	0.471345	94.30	0.220000
BORON	1	0.9322944	93.20	0.488000
CADMIUM	0.50	0.4906876	98.10	0.675000
CHROMIUM	1	0.9294844	92.90	0.506000
COBALT	1	0.9231738	92.30	0.510000
LEAD	0.50	0.4807828	96.20	0.699000
SELENIUM	1	1.004403	100	0.339000
SILVER	0.50	0.478192	95.60	0.347000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16
Concentration Units:	mg/l		

		ICV				ICVLL				CCV		
Sample ID:		ICP160317250544				ICP160317250559				ICP160317251131		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.026874	103	0.950000	0.01	0.009668983	96.70	65.100000	1	1.088466	109	0.088800
BARIUM	1	0.9985948	99.90	0.560000	0.0050	0.005075451	102	4.940000	0.50	0.5067253	101	0.481000
BORON	1	0.9788266	97.90	0.591000	0.20	0.2007582	100	2.120000	1	1.031407	103	0.050700
CADMIUM	1	1.029184	103	1.010000	0.0020	0.00227067	114	13.100000	0.50	0.5343441	107	0.633000
CHROMIUM	1	0.9789612	97.90	0.566000	0.01	0.0112524	113	8.900000	1	1.004599	100	0.197000
COBALT	1	0.9512029	95.10	0.817000	0.01	0.01026739	103	3.750000	1	0.9884408	98.80	0.103000
LEAD	1	1.013596	101	0.464000	0.0050	0.005175568	104	59.100000	0.50	0.5208368	104	0.767000
LITHIUM	1	0.9109842	91.10	0.957000	0.0150	0.01688436	113	41.800000	1	0.9792755	97.90	1.480000
SELENIUM	1	1.002359	100	0.959000	0.01	0.01063927	106	75.100000	1	1.099469	110	0.407000
SILVER	1	0.9870163	98.70	0.465000	0.0050	0.005253756	105	14.700000	0.50	0.5266057	105	0.403000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16
Concentration Units:	mg/l		

		CCV				**CCV**				**CCV**		
Sample ID:		ICP160317251151				ICP160317251211				ICP160317251228		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.076992	108	1.910000	1	1.077934	108	0.654000	1	1.087871	109	1.370000
BARIUM	0.50	0.5036869	101	0.415000	0.50	0.5071542	101	0.365000	0.50	0.5092537	102	0.248000
BORON	1	1.024206	102	0.819000	1	1.027036	103	0.098000	1	1.02551	103	0.406000
CADMIUM	0.50	0.5317758	106	0.196000	0.50	0.5318901	106	0.169000	0.50	0.5338599	107	0.564000
CHROMIUM	1	0.9945938	99.50	0.728000	1	1.004034	100	0.392000	1	1.008337	101	0.911000
COBALT	1	0.9875392	98.80	0.916000	1	0.9950837	99.50	1.080000	1	0.9906375	99.10	0.957000
LEAD	0.50	0.522942	105	0.484000	0.50	0.5251793	105	0.966000	0.50	0.5156088	103	0.476000
LITHIUM	1	0.971035	97.10	1.280000	1	0.955589	95.60	0.616000	1	0.9890857	98.90	1.250000
SELENIUM	1	1.090999	109	1.370000	1	1.09659	110	1.140000	1	1.100269	110	1.790000
SILVER	0.50	0.529161	106	0.364000	0.50	0.529959	106	0.377000	0.50	0.5287199	106	0.366000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16
Concentration Units:	mg/l		

CCV

Sample ID: ICP160317251250

Analyte	True	Found	%R	%RSD
ARSENIC	1	1.101577	110	0.916000
BARIUM	0.50	0.5092504	102	0.351000
BORON	1	1.030845	103	0.767000
CADMIUM	0.50	0.5289974	106	0.292000
CHROMIUM	1	1.011841	101	0.455000
COBALT	1	0.9854809	98.50	0.239000
LEAD	0.50	0.5193218	104	0.113000
LITHIUM	1	1.014572	101	0.945000
SELENIUM	1	1.09234	109	1.690000
SILVER	0.50	0.5228141	105	0.910000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110

SDG:	L1835560	**Calibration (begin) date/time:**	03/16/25 05:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/16/25 05:48
Analytical Method:	6010D	**Analytical Run:**	031625ICP16

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250316055731-2		20250316174230		20250316175101		20250316180925	
Analyte	mg/l		mg/l		mg/kg		mg/l	
ARSENIC	0.0007982536	U	-0.01128564	U	U		-0.008600319	U
BARIUM	-0.0003257435	U	-0.0004154259	U	U		-0.0006070424	U
BORON	0.000487068	U	0.0003939783	U	U		0.002316026	U
CADMIUM	0.0001884325	U	0.00007086652	U	U		-0.000111132	U
CHROMIUM	0.001354798	U	0.001793512	U	U		0.001503064	U
COBALT	-0.0001554786	U	0.002168466	U	U		0.001848458	U
LEAD	0.0003020214	U	-0.001244224	U	U		-0.004306754	U
SELENIUM	-0.007473532	U	-0.003655266	U	U		-0.009885335	U
SILVER	0.001657312	U	-0.001218722	U	U		-0.0002337263	U

SDG:	L1835560	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250317055030		20250317113306		20250317113449		20250317115315	
Analyte	mg/l		mg/l		mg/kg		mg/l	
ARSENIC	0.003906087	U	-0.00228941	U	U		-0.002358912	U
BARIUM	0.00001961531	U	0.0007833847	U	U		0.00006437754	U
BORON	0.004031129	U	0.002553567	U	U		0.006013927	U
CADMIUM	0.0004079453	U	0.0004324283	U	U		0.0008078316	U
CHROMIUM	0.001525766	U	0.0002792002	U	U		0.001258055	U
COBALT	-0.0003682242	U	-0.0009135078	U	U		0.0001058165	U
LEAD	0.0004382644	U	0.0001075668	U	U		0.0001105338	U
LITHIUM	0.001671803	U	0.0009166649	U	U		0.003018161	U
SELENIUM	0.002341215	U	0.0006317098	U	U		-0.001983138	U
SILVER	0.002240822	U	-0.0002839557	U	U		-0.000873451	U

SDG:	L1835560	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**
File ID:	20250317121323		20250317123015		20250317125221		20250317123158	
Analyte	mg/l		mg/l		mg/l		mg/kg	
ARSENIC	-0.000430667	U	0.00343468	U	0.003377434	U		
BARIUM	0.0003489514	U	0.000607837	U	0.0004206022	U		
BORON	0.002350736	U	0.005385583	U	0.008170704	U		
CADMIUM	0.0004861679	U	-0.0004672836	U	-0.0003596825	U		
CHROMIUM	0.001065887	U	0.002190257	U	0.001556681	U		
COBALT	-0.00009366228	U	-0.000931425	U	-0.002562327	U		
LEAD	0.000707892	U	-0.004832462	U	-0.003714487	U		
LITHIUM	0.002377289	U	0.004434174	U	0.00897517	U	U	
SELENIUM	-0.004642003	U	0.001846339	U	-0.00530135	U		
SILVER	-0.0007011001	U	-0.001656353	U	-0.001844598	U		

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835560	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/16/25 06:04
Instrument Run:	031625ICP16		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	507.4704	101	500	506.1119	101
ANTIMONY	0	-0.0001958409		0.50	0.4805983	96.10
ARSENIC	0	-0.01316824		0.50	0.46478	93
BARIUM	0	0.002111885		0.50	0.5008288	100
BERYLLIUM	0	0.00008042018		0.50	0.4863073	97.30
BORON	0	-0.03575599		1	0.9378103	93.80
CADMIUM	0	-0.0005566033		1	0.9648954	96.50
CALCIUM	500	508.0004	102	500	508.6238	102
CERIUM	0	0.0333194		0	0.04473683	
CHROMIUM	0	0.002375323		0.50	0.4935894	98.70
COBALT	0	0.005599143		0.50	0.4650892	93
COPPER	0	-0.0003677711		0.50	0.4911014	98.20
IRON	200	202.8127	101	200	201.6831	101
LANTHANUM	0	-0.006121188		0	-0.01332609	
LEAD	0	0.002775865		1	1.073286	107
LITHIUM	0	-0.001519056		0	-0.002623887	
MAGNESIUM	500	515.1685	103	500	512.7504	103
MANGANESE	0	-0.006530504		0.50	0.5000146	100
MOLYBDENUM	0	0.0006187101		0.50	0.4746569	94.90
NICKEL	0	0.002364387		1	1.025957	103
PHOSPHORUS	0	0.008357779		0	0.007497304	
POTASSIUM	0	0.1332627		0	0.119392	
SELENIUM	0	-0.004995748		0.50	0.4356399	87.10
SILICON	0	-0.01394214		1	0.8487207	84.90
SILVER	0	0.006228122		1	1.04866	105
SODIUM	0	0.05453532		0	0.06389033	
STRONTIUM	0	0.006782238		0	0.006701876	
SULFUR	0	0.01405061		0	0.02342399	
THALLIUM	0	-0.006574276		0.50	0.4256598	85.10
TIN	0	0.002271462		0.50	0.5096439	102
TITANIUM	0	-0.003284425		0.50	0.4857184	97.10
VANADIUM	0	0.00186409		0.50	0.4696584	93.90
ZINC	0	0.02936218		1	0.8869943	88.70

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835560	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/16/25 17:44
Instrument Run:	031625ICP16		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	497.8073	99.60	500	500.1472	100
ANTIMONY	0	-0.006434311		0.50	0.4951016	99
ARSENIC	0	-0.01782603		0.50	0.4746757	94.90
BARIUM	0	0.001893061		0.50	0.4897804	98
BERYLLIUM	0	-0.000002604802		0.50	0.4812259	96.20
BORON	0	-0.03767201		1	0.9452978	94.50
CADMIUM	0	-0.0005904635		1	1.006719	101
CALCIUM	500	497.1405	99.40	500	499.4934	99.90
CERIUM	0	0.04746048		0	0.03421823	
CHROMIUM	0	0.0005021282		0.50	0.4863323	97.30
COBALT	0	0.00647463		0.50	0.5046429	101
COPPER	0	-0.001879785		0.50	0.4975194	99.50
IRON	200	198.7999	99.40	200	200.0453	100
LANTHANUM	0	-0.003998997		0	-0.01194756	
LEAD	0	-0.001818894		1	1.061893	106
LITHIUM	0	0.01011518		0	0.01316495	
MAGNESIUM	500	502.0706	100	500	504.1081	101
MANGANESE	0	-0.007360305		0.50	0.4849231	97
MOLYBDENUM	0	-0.001247625		0.50	0.4763113	95.30
NICKEL	0	0.0008080131		1	1.038711	104
PHOSPHORUS	0	0.004868671		0	0.006528497	
POTASSIUM	0	0.104337		0	0.08030426	
SELENIUM	0	-0.01706813		0.50	0.4473783	89.50
SILICON	0	-0.01303344		1	0.8745963	87.50
SILVER	0	0.004215974		1	0.9387934	93.90
SODIUM	0	0.07495561		0	0.06375975	
STRONTIUM	0	0.007132692		0	0.007037754	
SULFUR	0	0.02064688		0	0.03974473	
THALLIUM	0	-0.007083891		0.50	0.4344973	86.90
TIN	0	0.002213007		0.50	0.5190412	104
TITANIUM	0	-0.004512312		0.50	0.4766613	95.30
VANADIUM	0	-0.003028137		0.50	0.4688403	93.80
ZINC	0	0.0315236		1	0.9251608	92.50

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835560	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/16/25 21:43
Instrument Run:	031625ICP16		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	501.2117	100	500	500.9027	100
ANTIMONY	0	-0.01457796		0.50	0.5083812	102
ARSENIC	0	-0.01924786		0.50	0.4901034	98
BARIUM	0	0.002068761		0.50	0.4836743	96.70
BERYLLIUM	0	0.00002265911		0.50	0.483946	96.80
BORON	0	-0.04220688		1	0.9524801	95.20
CADMIUM	0	-0.00005667118		1	1.018812	102
CALCIUM	500	501.7167	100	500	501.0822	100
CERIUM	0	0.08755091		0	0.08165907	
CHROMIUM	0	0.00076702		0.50	0.4829781	96.60
COBALT	0	0.00793189		0.50	0.519558	104
COPPER	0	-0.004458539		0.50	0.5046622	101
IRON	200	201.8563	101	200	202.0535	101
LANTHANUM	0	-0.01002076		0	-0.01227489	
LEAD	0	0.002566967		1	1.070681	107
LITHIUM	0	0.01723962		0	0.02097579	
MAGNESIUM	500	508.4802	102	500	509.9429	102
MANGANESE	0	-0.007743538		0.50	0.4800275	96
MOLYBDENUM	0	-0.003346823		0.50	0.4801526	96
NICKEL	0	-0.001509779		1	1.057583	106
PHOSPHORUS	0	0.008122355		0	0.009291482	
POTASSIUM	0	0.07536815		0	0.04678033	
SELENIUM	0	-0.01329058		0.50	0.4852889	97.10
SILICON	0	-0.01530367		1	0.9072627	90.70
SILVER	0	0.007421485		1	0.9149162	91.50
SODIUM	0	0.2630037		0	0.2662527	
STRONTIUM	0	0.007266457		0	0.00721979	
SULFUR	0	0.04107182		0	0.06044169	
THALLIUM	0	-0.01006578		0.50	0.4576597	91.50
TIN	0	-0.003697834		0.50	0.5201057	104
TITANIUM	0	-0.002599849		0.50	0.4793704	95.90
VANADIUM	0	-0.0007016194		0.50	0.4731138	94.60
ZINC	0	0.03376668		1	0.9616701	96.20

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835560	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/17/25 06:01
Instrument Run:	031725ICP16		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	507.9395	102	500	512.0392	102
ANTIMONY	0	-0.001021929		0.50	0.4816248	96.30
ARSENIC	0	-0.007323747		0.50	0.4849305	97
BARIUM	0	0.002114987		0.50	0.4874725	97.50
BERYLLIUM	0	-0.00007303524		0.50	0.5033725	101
BORON	0	-0.03201524		1	0.973351	97.30
CADMIUM	0	0.0001791805		1	0.9861751	98.60
CALCIUM	500	503.8431	101	500	515.1129	103
CERIUM	0	0.09399739		0	0.1052184	
CHROMIUM	0	-0.000001793727		0.50	0.4883062	97.70
COBALT	0	0.003602234		0.50	0.5349673	107
COPPER	0	-0.001721835		0.50	0.5133725	103
IRON	200	201.6069	101	200	203.5575	102
LANTHANUM	0	-0.008068083		0	-0.01176386	
LEAD	0	-0.0006905332		1	1.043786	104
LITHIUM	0	0.002007994		0	0.001713506	
MAGNESIUM	500	511.0575	102	500	514.4994	103
MANGANESE	0	-0.007751766		0.50	0.4896851	97.90
MOLYBDENUM	0	-0.00134845		0.50	0.4737898	94.80
NICKEL	0	0.002376791		1	1.072614	107
PHOSPHORUS	0	0.002437698		0	-0.001221167	
POTASSIUM	0	0.08962172		0	0.05904314	
SELENIUM	0	-0.003923936		0.50	0.4779742	95.60
SILICON	0	-0.01498583		1	0.9324984	93.20
SILVER	0	0.005846697		1	0.8788705	87.90
SODIUM	0	0.05668188		0	0.06796401	
STRONTIUM	0	0.006793096		0	0.006816121	
SULFUR	0	-0.01927311		0	0.00008507571	
THALLIUM	0	-0.003684261		0.50	0.4954285	99.10
TIN	0	-0.001041403		0.50	0.5264181	105
TITANIUM	0	-0.003692463		0.50	0.4900986	98
VANADIUM	0	0.005567498		0.50	0.4964587	99.30
ZINC	0	0.0199295		1	0.9611641	96.10

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835560	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/17/25 12:59
Instrument Run:	031725ICP16		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	519.542	104	500	524.5761	105
ANTIMONY	0	0.01019599		0.50	0.4992857	99.90
ARSENIC	0	-0.006815824		0.50	0.5020655	100
BARIUM	0	0.002558191		0.50	0.4881282	97.60
BERYLLIUM	0	-0.00003595719		0.50	0.5174664	103
BORON	0	-0.03123782		1	0.9977762	99.80
CADMIUM	0	-0.001136757		1	0.9808325	98.10
CALCIUM	500	518.1376	104	500	522.479	104
CERIUM	0	0.01847703		0	-0.003644077	
CHROMIUM	0	0.001293955		0.50	0.4918094	98.40
COBALT	0	-0.0001994762		0.50	0.5562862	111
COPPER	0	0.002022274		0.50	0.5305778	106
IRON	200	205.6024	103	200	207.1748	104
LANTHANUM	0	-0.004709134		0	-0.007841304	
LEAD	0	-0.001779968		1	1.069251	107
LITHIUM	0	0.007408578		0	0.007700622	
MAGNESIUM	500	518.9011	104	500	522.9251	105
MANGANESE	0	-0.00654487		0.50	0.5007001	100
MOLYBDENUM	0	-0.001826804		0.50	0.4525296	90.50
NICKEL	0	0.006871768		1	1.101804	110
PHOSPHORUS	0	0.006003712		0	-0.002752027	
POTASSIUM	0	0.2360705		0	0.2425474	
SELENIUM	0	-0.01663706		0.50	0.4611706	92.20
SILICON	0	-0.008070137		1	0.9453838	94.50
SILVER	0	0.005228986		1	0.8415965	84.20
SODIUM	0	0.115185		0	0.1188805	
STRONTIUM	0	0.006178854		0	0.006315543	
SULFUR	0	-0.01037077		0	-0.0007869804	
THALLIUM	0	-0.006176272		0.50	0.5054937	101
TIN	0	0.006568911		0.50	0.536124	107
TITANIUM	0	-0.004340072		0.50	0.5038608	101
VANADIUM	0	0.0132592		0.50	0.5068133	101
ZINC	0	0.01920309		1	0.9451248	94.50

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835560-06

SAMPLE NO.:
R4187055-5
R4187055-6

MS Sample / File ID: R4187055-5 / 20250316175922
MSD Sample / File ID: R4187055-6 / 20250316180102
OS Sample / File ID: L1835560-06 / 20250316175421
Instrument ID: ICP16
Analytical Method: 6010D

SDG: L1835560
Analytical Batch: WG2469953
Matrix: Solid

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	124	1.42	116	122	92.3	97.6	1	75.0 - 125	5.52	20
Barium	124	136	258	262	98.0	101	1	75.0 - 125	1.58	20
Boron	124	11.3	118	124	86.3	90.9	1	75.0 - 125	4.67	20
Cadmium	124	1.37	112	117	88.9	93.2	1	75.0 - 125	4.62	20
Chromium	124	12.6	120	127	86.6	92.4	1	75.0 - 125	5.83	20
Cobalt	124	6.80	126	134	96.0	103	1	75.0 - 125	6.42	20
Lead	124	35.0	153	170	94.8	109	1	75.0 - 125	10.7	20
Selenium	124	U	109	115	87.6	93.1	1	75.0 - 125	6.10	20
Silver	24.8	U	21.9	23.2	88.2	93.5	1	75.0 - 125	5.77	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835560-06

SAMPLE NO.:
R4187246-5
R4187246-6

MS Sample / File ID:	R4187246-5 / 20250317124022	**SDG:**	L1835560
MSD Sample / File ID:	R4187246-6 / 20250317124203	**Analytical Batch:**	WG2469953
OS Sample / File ID:	L1835560-06 / 20250317123520	**Matrix:**	Solid
Instrument ID:	ICP16		
Analytical Method:	6010D		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Lithium	124	9.73	148	155	112	118	1	75.0 - 125	4.76	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835560-01,02,03,04,05,07,08

SAMPLE NO.:
R4187254-5
R4187254-6

MS Sample / File ID: R4187254-5 / 20250317114312
MSD Sample / File ID: R4187254-6 / 20250317114452
OS Sample / File ID: L1835037-06 / 20250317113811
Instrument ID: ICP16
Analytical Method: 6010D

SDG: L1835560
Analytical Batch: WG2469957
Matrix: Solid

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	100	6.20	98.6	96.7	92.4	90.4	1	75.0 - 125	1.95	20
Barium	100	138	238	240	100	101	1	75.0 - 125	0.450	20
Boron	100	U	95.4	93.2	95.4	93.2	1	75.0 - 125	2.30	20
Cadmium	100	0.256	93.0	90.6	92.7	90.3	1	75.0 - 125	2.61	20
Chromium	100	10.4	101	99.0	90.8	88.6	1	75.0 - 125	2.26	20
Cobalt	100	10.0	113	111	102	101	1	75.0 - 125	1.04	20
Lead	100	29.3	134	134	105	104	1	75.0 - 125	0.480	20
Lithium	100	18.1	119	120	101	102	1	75.0 - 125	0.856	20
Selenium	100	U	88.4	85.2	88.4	85.2	1	75.0 - 125	3.72	20
Silver	20.0	0.506	18.4	18.2	89.4	88.7	1	75.0 - 125	0.756	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1835560-06

PS Sample / File ID:	R4187055-4 / 20250316175742	**SDG:**	L1835560
OS Sample / File ID:	L1835560-06 / 20250316175421	**Analytical Batch:**	WG2469953
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Arsenic	124	1.42	129		103		1	80.0 - 120		
Barium	124	136	251		92.4		1	80.0 - 120		
Boron	124	11.3	128		94.4		1	80.0 - 120		
Cadmium	124	1.37	122		97.5		1	80.0 - 120		
Chromium	124	12.6	131		95.2		1	80.0 - 120		
Cobalt	124	6.80	141		108		1	80.0 - 120		
Lead	124	35.0	165		105		1	80.0 - 120		
Selenium	124	U	122		98.5		1	80.0 - 120		
Silver	24.8	U	24.2		97.4		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1835560-06

PS Sample / File ID:	R4187246-4 / 20250317123841	**SDG:**	L1835560
OS Sample / File ID:	L1835560-06 / 20250317123520	**Analytical Batch:**	WG2469953
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Lithium	124	9.73	154		116		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1835560-01,02,03,04,05,07,08

SAMPLE NO.: R4187254-4

PS Sample / File ID:	R4187254-4 / 20250317114132	**SDG:**	L1835560
OS Sample / File ID:	L1835037-06 / 20250317113811	**Analytical Batch:**	WG2469957
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	OS Result	PD Result	DS Result	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Arsenic	100	6.20	105		98.5		1	80.0 - 120		
Barium	100	138	232		93.4		1	80.0 - 120		
Boron	100	U	101		101		1	80.0 - 120		
Cadmium	100	0.256	97.1		96.9		1	80.0 - 120		
Chromium	100	10.4	105		94.9		1	80.0 - 120		
Cobalt	100	10.0	118		108		1	80.0 - 120		
Lead	100	29.3	139		109		1	80.0 - 120		
Lithium	100	18.1	124		106		1	80.0 - 120		
Selenium	100	U	95.3		95.3		1	80.0 - 120		
Silver	20.0	0.506	19.5		95.0		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835560-06

SAMPLE NO.:
R4187055-2

LCS Sample / File ID:	R4187055-2 / 20250316175241	**SDG:**	L1835560
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2469953
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Arsenic	100	95.9		95.9		80.0 - 120		
Barium	100	92.1		92.1		80.0 - 120		
Boron	100	88.9		88.9		80.0 - 120		
Cadmium	100	95.4		95.4		80.0 - 120		
Chromium	100	89.3		89.3		80.0 - 120		
Cobalt	100	87.2		87.2		80.0 - 120		
Lead	100	91.8		91.8		80.0 - 120		
Selenium	100	93.1		93.1		80.0 - 120		
Silver	20.0	17.4		86.8		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835560-06

SAMPLE NO.:
R4187246-2

LCS Sample / File ID:	R4187246-2 / 20250317123339	**SDG:**	L1835560
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2469953
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Lithium	100	89.8		89.8		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835560-01,02,03,04,05,07,08

SAMPLE NO.:
R4187254-2

LCS Sample / File ID:	R4187254-2 / 20250317113630	**SDG:**	L1835560
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2469957
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Arsenic	100	113		113		80.0 - 120		
Barium	100	102		102		80.0 - 120		
Boron	100	102		102		80.0 - 120		
Cadmium	100	111		111		80.0 - 120		
Chromium	100	101		101		80.0 - 120		
Cobalt	100	99.0		99.0		80.0 - 120		
Lead	100	106		106		80.0 - 120		
Lithium	100	95.4		95.4		80.0 - 120		
Selenium	100	112		112		80.0 - 120		
Silver	20.0	19.8		99.0		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4187055-3 / 20250316175601	**SDG:**	L1835560
OS Sample / File ID:	L1835560-06 / 20250316175421	**Analytical Batch:**	WG2469953
Lab File ID:	20250316175601	**Dilution Factor:**	5
Instrument ID:	ICP16	**Matrix:**	Solid
Analytical Method:	6010D		

Analyte	OS Result (dry)	SD Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Arsenic	1.42	U	0.000	10
Barium	136	154	12.8*	10
Boron	11.3	U	0.000	10
Cadmium	1.37	1.91	39.8	10
Chromium	12.6	15.0	18.5	10
Cobalt	6.80	7.02	3.23	10
Lead	35.0	36.8	5.14	10
Selenium	U	U	0.000	10
Silver	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4187246-3 / 20250317123701	**SDG:**	L1835560
OS Sample / File ID:	L1835560-06 / 20250317123520	**Analytical Batch:**	WG2469953
Lab File ID:	20250317123701	**Dilution Factor:**	5
Instrument ID:	ICP16	**Matrix:**	Solid
Analytical Method:	6010D		

Analyte	OS Result (dry)	SD Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Lithium	9.73	9.85	1.28	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ICP AND ICP/MS SERIAL DILUTIONS

L1835560-01,02,03,04,05,07,08

SD Sample / File ID:	R4187254-3 / 20250317113951	**SDG:**	L1835560
OS Sample / File ID:	L1835037-06 / 20250317113811	**Analytical Batch:**	WG2469957
Lab File ID:	20250317113951	**Dilution Factor:**	5
Instrument ID:	ICP16	**Matrix:**	Solid
Analytical Method:	6010D		

Analyte	OS Result	SD Result	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Arsenic	6.20	5.75	7.39	10
Barium	138	143	3.64	10
Boron	U	U	0.000	10
Cadmium	0.256	0.555	0.000	10
Chromium	10.4	10.6	1.77	10
Cobalt	10.0	9.88	1.38	10
Lead	29.3	28.3	3.52	10
Lithium	18.1	19.1	5.13	10
Selenium	U	U	0.000	10
Silver	0.506	U	0.000	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835560-01,02,03,04,05,06,07,08
Matrix: Solid
Analytical Method: 6010D
Prep Method: 3050B

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Cobalt	7440-48-4		228.6160	0.1770	1
Lead	7439-92-1		220.3530	0.3260	0.50
Lithium	7439-93-2		670.7840	0.4050	5
Selenium	7782-49-2		196.09	1.07	2
Silver	7440-22-4		328.0680	0.1270	1
Arsenic	7440-38-2		189.0420	0.8370	2
Barium	7440-39-3		233.5270	0.0850	0.50
Boron	7440-42-8		249.6780	4.50	20
Cadmium	7440-43-9		228.8020	0.0653	0.50
Chromium	7440-47-3		267.7160	0.2140	1

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1835560	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	02/03/25 09:04

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	200
POTASSIUM	500
SELENIUM	10
SILICON	100
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

ANALYSIS LOG

SDG:	L1835560	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Calibration Start Date:**	03/16/25 05:38
Analytical Run:	031625ICP16	**Calibration End Date:**	03/16/25 05:48

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP160316250537	20250316053706	03/16/25 05:37		
CAL	STD1	20250316053844	03/16/25 05:38		
CAL	STD2	20250316054022	03/16/25 05:40		
CAL	STD3	20250316054200	03/16/25 05:42		
CAL	STD4	20250316054337	03/16/25 05:43		
CAL	STD5	20250316054515	03/16/25 05:45		
CAL	STD6	20250316054652	03/16/25 05:46		
CAL	STD7	20250316054830	03/16/25 05:48		
ICV	ICP160316250550-2	20250316055020-2	03/16/25 05:50		
ICB	ICP160316250557-2	20250316055731-2	03/16/25 05:57		
ICVLL	ICP160316250602-2	20250316060224-2	03/16/25 06:02		
ICSA	ICP160316250604-2	20250316060402-2	03/16/25 06:04		
ICSAB	ICP160316250605-2	20250316060540-2	03/16/25 06:05		
CCV	ICP160316251740	20250316174048	03/16/25 17:40		
CCB	ICP160316251742	20250316174230	03/16/25 17:42		
ICSA	ICP160316251744	20250316174413	03/16/25 17:44		
ICSAB	ICP160316251745	20250316174553	03/16/25 17:45		
BLANK	R4187055-1	20250316175101	03/16/25 17:51	1	WG2469953
LCS	R4187055-2	20250316175241	03/16/25 17:52	1	WG2469953
NHR-S-SO	L1835560-06	20250316175421	03/16/25 17:54	1	WG2469953
SD	R4187055-3	20250316175601	03/16/25 17:56	5	WG2469953
PS	R4187055-4	20250316175742	03/16/25 17:57	1	WG2469953
MS	R4187055-5	20250316175922	03/16/25 17:59	1	WG2469953
MSD	R4187055-6	20250316180102	03/16/25 18:01	1	WG2469953
L1834834-01	L1834834-01	20250316180242	03/16/25 18:02	1	WG2469953
CCV	ICP160316251807	20250316180744	03/16/25 18:07		
CCB	ICP160316251809	20250316180925	03/16/25 18:09		
ICSA	ICP160316252143	20250316214346	03/16/25 21:43		
ICSAB	ICP160316252145	20250316214529	03/16/25 21:45		

ANALYSIS LOG

SDG:	L1835560	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Calibration Start Date:**	03/17/25 05:33
Analytical Run:	031725ICP16	**Calibration End Date:**	03/17/25 05:43

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP160317250531	20250317053143	03/17/25 05:31		
CAL	STD1	20250317053321	03/17/25 05:33		
CAL	STD2	20250317053459	03/17/25 05:34		
CAL	STD3	20250317053637	03/17/25 05:36		
CAL	STD4	20250317053814	03/17/25 05:38		
CAL	STD5	20250317053952	03/17/25 05:39		
CAL	STD6	20250317054129	03/17/25 05:41		
CAL	STD7	20250317054307	03/17/25 05:43		
ICV	ICP160317250544	20250317054457	03/17/25 05:44		
ICB	ICP160317250550	20250317055030	03/17/25 05:50		
ICVLL	ICP160317250559	20250317055930	03/17/25 05:59		
ICSA	ICP160317250601	20250317060108	03/17/25 06:01		
ICSAB	ICP160317250602	20250317060245	03/17/25 06:02		
CCV	ICP160317251131	20250317113125	03/17/25 11:31		
CCB	ICP160317251133	20250317113306	03/17/25 11:33		
BLANK	R4187254-1	20250317113449	03/17/25 11:34	1	WG2469957
LCS	R4187254-2	20250317113630	03/17/25 11:36	1	WG2469957
OS	L1835037-06	20250317113811	03/17/25 11:38		
L1835037-06	L1835037-06	20250317113811	03/17/25 11:38	1	WG2469957
SD	R4187254-3	20250317113951	03/17/25 11:39	5	WG2469957
PS	R4187254-4	20250317114132	03/17/25 11:41	1	WG2469957
MS	R4187254-5	20250317114312	03/17/25 11:43	1	WG2469957
MSD	R4187254-6	20250317114452	03/17/25 11:44	1	WG2469957
L1835037-04	L1835037-04	20250317114632	03/17/25 11:46	1	WG2469957
L1835037-05	L1835037-05	20250317114813	03/17/25 11:48	1	WG2469957
CCV	ICP160317251151	20250317115134	03/17/25 11:51		
CCB	ICP160317251153	20250317115315	03/17/25 11:53		
CLINTON-SCHOOL-DITCH-S-SO	L1835560-01	20250317115456	03/17/25 11:54	1	WG2469957
18-901-S-SO	L1835560-02	20250317115636	03/17/25 11:56	1	WG2469957
K-18-S-SO	L1835560-03	20250317115817	03/17/25 11:58	1	WG2469957
P-230-S-SO	L1835560-04	20250317115957	03/17/25 11:59	1	WG2469957
P-350-S-SO	L1835560-05	20250317120138	03/17/25 12:01	1	WG2469957
FLYASH-S-SO	L1835560-07	20250317120319	03/17/25 12:03	1	WG2469957
MONTROSE-LAKE-S-SO	L1835560-08	20250317120459	03/17/25 12:04	1	WG2469957
L1835568-01	L1835568-01	20250317120640	03/17/25 12:06	1	WG2469957
L1835568-02	L1835568-02	20250317120820	03/17/25 12:08	1	WG2469957
L1835568-03	L1835568-03	20250317121001	03/17/25 12:10	1	WG2469957
CCV	ICP160317251211	20250317121142	03/17/25 12:11		
CCB	ICP160317251213	20250317121323	03/17/25 12:13		
CCV	ICP160317251228	20250317122834	03/17/25 12:28		
CCB	ICP160317251230	20250317123015	03/17/25 12:30		
BLANK	R4187246-1	20250317123158	03/17/25 12:31	1	WG2469953
LCS	R4187246-2	20250317123339	03/17/25 12:33	1	WG2469953
NHR-S-SO	L1835560-06	20250317123520	03/17/25 12:35	1	WG2469953
SD	R4187246-3	20250317123701	03/17/25 12:37	5	WG2469953
PS	R4187246-4	20250317123841	03/17/25 12:38	1	WG2469953
MS	R4187246-5	20250317124022	03/17/25 12:40	1	WG2469953
MSD	R4187246-6	20250317124203	03/17/25 12:42	1	WG2469953
L1836698-01	L1836698-01	20250317124344	03/17/25 12:43	10	WG2469953
L1836698-01	L1836698-01	20250317124525	03/17/25 12:45	25	WG2469953

ANALYSIS LOG

SDG:	L1835560	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Calibration Start Date:**	03/17/25 05:33
Analytical Run:	031725ICP16	**Calibration End Date:**	03/17/25 05:43

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CCV	ICP160317251250	20250317125040	03/17/25 12:50		
CCB	ICP160317251252	20250317125221	03/17/25 12:52		
ICSA	ICP160317251259	20250317125913	03/17/25 12:59		
ICSAB	ICP160317251300	20250317130054	03/17/25 13:00		

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/16/25 05:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/16/25 05:48
Analytical Method:	6010D	**Analytical Run:**	031625ICP16

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.01008929	101	0.20	.1963095	98.20
BARIUM	0.0050	.005043715	101	0.10	.1023204	102
BORON	0.20	.200973	100			
CADMIUM	0.0020	.002104715	105	0.10	.1013443	101
CHROMIUM	0.01	.0107653	108	0.20	.1988997	99.40
COBALT	0.01	.009742476	97.40	0.20	.190042	95
LEAD	0.0050	.004173208	83.50	0.10	.09879966	98.80
SELENIUM	0.01	.008354605	83.50	0.20	.190554	95.30
SILVER	0.0050	.004836625	96.70	0.10	.1003104	100
File ID:		20250316053844			20250316054022	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/16/25 05:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/16/25 05:48
Analytical Method:	6010D	**Analytical Run:**	031625ICP16

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.4022231	101	1	.9849859	98.50
BARIUM	0.20	.2050378	103	0.50	.5027843	101
BORON	0.40	.3998692	100	1	.9918855	99.20
CADMIUM	0.20	.2027388	101	0.50	.4874164	97.50
CHROMIUM	0.40	.4033575	101	1	.9919894	99.20
COBALT	0.40	.3800277	95	1	.9596923	96
LEAD	0.20	.2034208	102	0.50	.4910052	98.20
SELENIUM	0.40	.3950619	98.80	1	.9650108	96.50
SILVER	0.20	.2032452	102	0.50	.497615	99.50
File ID:		20250316054200			20250316054337	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/16/25 05:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/16/25 05:48
Analytical Method:	6010D	**Analytical Run:**	031625ICP16

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.000478	100	4	4.003477	100
BARIUM	1	1.011431	101	2	1.992968	99.60
BORON	2	2.011604	101	4	3.996191	99.90
CADMIUM	1	.9952671	99.50	2	2.005171	100
CHROMIUM	2	2.015337	101	4	3.994052	99.90
COBALT	2	1.959053	98	4	4.033046	101
LEAD	1	1.008986	101	2	1.997476	99.90
SELENIUM	2	1.989018	99.50	4	4.015208	100
SILVER	1	.9929024	99.30	2	2.003805	100
File ID:		20250316054515			20250316054652	

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.009423762	94.20	0.20	.205544	103
BARIUM	0.0050	.005373559	107	0.10	.101528	102
BORON	0.20	.2029191	101			
CADMIUM	0.0020	.002397649	120	0.10	.106047	106
CHROMIUM	0.01	.009914651	99.10	0.20	.1968533	98.40
COBALT	0.01	.009549633	95.50	0.20	.1890604	94.50
LEAD	0.0050	.005428977	109	0.10	.1029553	103
LITHIUM	0.0150	.0159804	107	0.20	.1808979	90.40
SELENIUM	0.01	.01186726	119	0.20	.2069453	103
SILVER	0.0050	.004579881	91.60	0.10	.1020205	102
File ID:		20250317053321			20250317053459	

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.4070408	102	1	1.022365	102
BARIUM	0.20	.1987557	99.40	0.50	.5130964	103
BORON	0.40	.3977123	99.40	1	1.021254	102
CADMIUM	0.20	.205722	103	0.50	.5179268	104
CHROMIUM	0.40	.3925631	98.10	1	1.010594	101
COBALT	0.40	.379828	95	1	.9898022	99
LEAD	0.20	.2045265	102	0.50	.5172496	103
LITHIUM	0.40	.365285	91.30	1	.9936661	99.40
SELENIUM	0.40	.407241	102	1	1.036422	104
SILVER	0.20	.2014081	101	0.50	.513352	103
File ID:		20250317053637			20250317053814	

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	1.9684	98.40	4	4.009229	100
BARIUM	1	.9874199	98.70	2	2.003063	100
BORON	2	1.965462	98.30	4	4.012038	100
CADMIUM	1	.9871812	98.70	2	2.001053	100
CHROMIUM	2	1.970144	98.50	4	4.013181	100
COBALT	2	1.927725	96.40	4	4.041252	101
LEAD	1	.9824366	98.20	2	2.003868	100
LITHIUM	2	2.012013	101			
SELENIUM	2	1.966604	98.30	4	4.006517	100
SILVER	1	.9777496	97.80	2	2.007546	100
File ID:		20250317053952			20250317054129	

16A-IN

INITIAL CALIBRATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/16/25 05:38
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/16/25 05:48
Analytical Method:	6010D	**Analytical Run:**	031625ICP16

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.99999	197.8601	2.633754
BARIUM	233.527	8	5	0.999966	6023.068	-3.85056
BORON	249.678	8	5	0.999991	223.6793	0.78757
CADMIUM	228.802	8	5	0.999967	2431.731	-1.366256
CHROMIUM	267.716	8	5	0.999987	2408.896	4.238742
COBALT	228.616	8	5	0.999813	842.2992	4.636597
LEAD	220.353	8	5	0.999972	452.9	0.444327
SELENIUM	196.09	8	5	0.999935	129.8896	0.647426
SILVER	328.068	8	5	0.999987	4845.257	-25.64981

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

INITIAL CALIBRATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999936	180.4201	1.375095
ARSENIC	189.042	8	5	0.999936	180.4201	1.375095
BARIUM	233.527	8	5	0.999947	5051.006	-7.310431
BARIUM	233.527	8	5	0.999947	5051.006	-7.310431
BORON	249.678	8	5	0.999922	217.0791	-0.506002
BORON	249.678	8	5	0.999922	217.0791	-0.506002
CADMIUM	228.802	8	5	0.999914	1620.748	2.670379
CADMIUM	228.802	8	5	0.999914	1620.748	2.670379
CHROMIUM	267.716	8	5	0.999952	2025.001	7.872863
CHROMIUM	267.716	8	5	0.999952	2025.001	7.872863
COBALT	228.616	8	5	0.999711	906.5096	5.404272
COBALT	228.616	8	5	0.999711	906.5096	5.404272
LEAD	220.353	8	5	0.999899	413.2392	0.278895
LEAD	220.353	8	5	0.999899	413.2392	0.278895
LITHIUM	670.784	8	5	0.999715	925.6218	-12.25309
LITHIUM	670.784	8	5	0.999715	925.6218	-12.25309
SELENIUM	196.09	8	5	0.9999	123.6363	0.486919
SELENIUM	196.09	8	5	0.9999	123.6363	0.486919
SILVER	328.068	8	5	0.999886	4242.44	-19.57929
SILVER	328.068	8	5	0.999886	4242.44	-19.57929

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

Sample ID: CALBLK Units: mg/l
Analyzed: 03/16/25 05:37 Sequence: 2 Standard ID: 25C10350

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5384.256	5365.372	5407.345	5380.051
YTTRIUM	360.073	Axial	55505.69	55102.30	55775.03	55639.75
YTTRIUM	360.073	Radial	4427.420	4454.808	4448.729	4378.724
INDIUM	230.606	Axial	1284.080	1271.381	1289.865	1290.993

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	-2.37538	-3.788145	-1.550295	-1.787728
ANTIMONY	206.833	Axial	1.312627	0.5378717	2.368947	1.031061
ARSENIC	189.042	Axial	2.633069	2.322009	2.074011	3.503188
BARIUM	233.527	Axial	-3.85317	-3.231682	-5.092074	-3.235764
BERYLLIUM	313.042	Radial	3.366131	2.194035	4.525129	3.379227
BORON	249.678	Radial	0.7863010	0.4997397	0.8670838	0.9920796
CADMIUM	228.802	Axial	-1.36555	-1.781643	-1.185328	-1.129706
CALCIUM	317.933	Radial	20.27946	19.87428	20.09352	20.87057
CALCIUM	373.690	Radial	2.059972	3.272415	1.564185	1.343316
CERIUM	535.353	Radial	9.149381	10.73609	8.658196	8.053854
CHROMIUM	267.716	Axial	4.238683	5.148080	4.722594	2.845373
COBALT	228.616	Axial	4.633027	5.308209	4.247931	4.342941
COPPER	324.754	Axial	8.974602	7.365578	7.724524	11.83370
IRON	259.940	Radial	1.203286	0.6613229	1.047091	1.901444
IRON	271.441	Radial	1.935944	2.177427	0.5116756	3.118731
LANTHANUM	333.749	Radial	1.248439	-0.6177048	1.146481	3.216540
LEAD	220.353	Axial	0.4504480	-0.7666010	0.7299814	1.387964
LITHIUM	670.784	Radial	58.10296	55.56064	60.85791	57.89033
MAGNESIUM	279.079	Radial	-0.5990073	-0.7566623	-0.09609621	-0.9442634
MANGANESE	257.610	Axial	-2.38690	-4.627706	-0.7924255	-1.740594
MOLYBDENUM	202.030	Axial	-1.53826	-1.124486	-2.611254	-0.8790441
NICKEL	231.604	Axial	0.5888976	0.7501113	1.060594	-0.04401220
PHOSPHORUS	177.495	Axial	0.4842729	0.4094670	1.004502	0.03884928
POTASSIUM	766.490	Radial	-29.5930	-29.34868	-26.26834	-33.16210
SELENIUM	196.090	Axial	0.6486880	-0.3127082	0.8812789	1.377493
SILICON	251.611	Axial	7.780171	6.614301	7.297258	9.428954
SILVER	328.068	Axial	-25.6484	-26.01104	-26.34319	-24.59124
SODIUM	589.592	Radial	-73.0757	-76.63535	-68.91364	-73.67821
SODIUM	818.326	Radial	-11.6164	-11.48728	-14.19847	-9.163521
STRONTIUM	421.552	Radial	-4.92902	-6.660353	-5.007827	-3.118880
SULFUR	182.034	Axial	3.339761	3.442108	3.195345	3.381830
THALLIUM	190.856	Axial	1.022747	1.126971	0.8650131	1.076257
TIN	189.989	Axial	0.5914706	0.06837193	0.4627511	1.243289
TITANIUM	334.941	Radial	-4.13934	-1.374619	-7.293325	-3.750100
VANADIUM	292.402	Radial	1.769417	3.713650	2.093211	-0.4986105
ZINC	206.200	Axial	111.2576	111.2301	110.9764	111.5664

Sample ID: STD1 Units: mg/l
Analyzed: 03/16/25 05:38 Sequence: 3 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5360.013	5325.974	5385.483	5368.581
YTTRIUM	360.073	Axial	55098.49	55071.07	55050.34	55174.06
YTTRIUM	360.073	Radial	4381.397	4354.362	4400.455	4389.374
INDIUM	230.606	Axial	1273.414	1262.689	1279.986	1277.568

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	10.52215	9.699471	10.20366	11.66333
ANTIMONY	206.833	Axial	2.547234	2.372835	3.436482	1.832386
ARSENIC	189.042	Axial	4.609481	4.129734	3.775571	5.923139
BARIUM	233.527	Axial	26.41037	26.60226	29.11716	23.51169
BERYLLIUM	313.042	Radial	38.13478	38.70595	36.85080	38.84758
BORON	249.678	Radial	45.26297	45.71471	44.68291	45.39130
CADMIUM	228.802	Axial	3.732429	4.146984	2.451310	4.598992
CALCIUM	317.933	Radial	265.3200	263.9912	265.3159	266.6531
CHROMIUM	267.716	Axial	30.04388	27.50218	32.33527	30.29419
COBALT	228.616	Axial	12.73687	12.33900	12.36613	13.50547
COPPER	324.754	Axial	58.60591	56.43863	62.69985	56.67925
IRON	259.940	Radial	28.71659	29.83419	27.44677	28.86881
LEAD	220.353	Axial	2.318911	1.425882	3.140067	2.390783
LITHIUM	670.784	Radial	78.02766	82.34006	76.57142	75.17149
MAGNESIUM	279.079	Radial	93.56452	93.51448	95.11223	92.06685
MANGANESE	257.610	Axial	217.0183	212.1035	220.7218	218.2296
MOLYBDENUM	202.030	Axial	3.552083	3.754301	4.497122	2.404825
NICKEL	231.604	Axial	8.982472	7.359995	9.574675	10.01275
PHOSPHORUS	177.495	Axial	20.51613	20.34188	20.84955	20.35695
POTASSIUM	766.490	Radial	79.04239	74.88465	80.18910	82.05341
SELENIUM	196.090	Axial	1.728114	0.5633978	1.967428	2.653515
SILICON	251.611	Axial	215.0818	211.1263	217.3756	216.7433
SILVER	328.068	Axial	-2.20185	3.218652	-2.719663	-7.104545
SODIUM	589.592	Radial	344.3949	337.1540	351.5553	344.4753
STRONTIUM	421.552	Radial	111.6897	108.8285	114.7056	111.5350
SULFUR	182.034	Axial	57.78929	57.71322	57.78982	57.86484
THALLIUM	190.856	Axial	2.664887	2.107110	3.548241	2.339312
TIN	189.989	Axial	22.11876	21.26536	23.43364	21.65727
TITANIUM	334.941	Radial	88.16296	86.86925	86.72141	90.89821
VANADIUM	292.402	Radial	13.92121	13.32305	14.45924	13.98134
ZINC	206.200	Axial	228.3076	227.5977	228.3002	229.0250

Sample ID: STD2 Units: mg/l
Analyzed: 03/16/25 05:40 Sequence: 4 Standard ID: 25C15262

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5435.096	5422.548	5387.614	5495.126
YTTRIUM	360.073	Axial	55370.45	55043.49	55295.37	55772.50
YTTRIUM	360.073	Radial	4356.075	4378.229	4329.877	4360.119
INDIUM	230.606	Axial	1261.331	1259.974	1259.231	1264.787

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	115.0714	115.7701	113.8151	115.6291
ANTIMONY	206.833	Axial	15.60306	16.67724	14.64478	15.48716
ARSENIC	189.042	Axial	41.86726	38.79585	43.48785	43.31808
BARIUM	233.527	Axial	618.1768	615.4851	619.4192	619.6262
BERYLLIUM	313.042	Radial	692.1758	695.8766	690.7145	689.9364
CADMIUM	228.802	Axial	247.3817	245.6250	247.2490	249.2712
CALCIUM	317.933	Radial	2426.252	2442.942	2408.125	2427.688
CHROMIUM	267.716	Axial	487.9245	486.6175	484.8664	492.2896
COBALT	228.616	Axial	161.7911	159.4528	163.2404	162.6800
COPPER	324.754	Axial	1001.953	986.9348	1000.793	1018.133
IRON	259.940	Radial	518.7708	520.1675	515.5854	520.5595
LEAD	220.353	Axial	44.39019	44.03771	44.51706	44.61579
LITHIUM	670.784	Radial	277.7427	278.8434	279.4444	274.9404
MAGNESIUM	279.079	Radial	186.8698	186.1229	185.2895	189.1970
MANGANESE	257.610	Axial	4471.355	4448.578	4481.362	4484.125
MOLYBDENUM	202.030	Axial	45.71622	45.95665	44.80452	46.38747
NICKEL	231.604	Axial	180.4798	178.3595	179.7779	183.3020
PHOSPHORUS	177.495	Axial	39.01951	38.32040	39.51154	39.22659
POTASSIUM	766.490	Radial	971.8049	975.5462	969.3608	970.5076
SELENIUM	196.090	Axial	25.63797	25.51057	25.49909	25.90426
SILICON	251.611	Axial	426.9419	420.8637	427.3293	432.6326
SILVER	328.068	Axial	459.2462	457.4267	461.5064	458.8055
SODIUM	589.592	Radial	3866.932	3900.271	3855.565	3844.959
STRONTIUM	421.552	Radial	2282.816	2293.293	2267.730	2287.424
THALLIUM	190.856	Axial	31.43423	31.88253	31.90553	30.51464
TIN	189.989	Axial	41.33376	42.01767	40.73061	41.25300
TITANIUM	334.941	Radial	353.8201	354.1113	353.1850	354.1638
VANADIUM	292.402	Radial	128.4963	129.5928	127.6957	128.2004
ZINC	206.200	Axial	579.9785	575.5937	577.2093	587.1325

Sample ID: STD3 Units: mg/l
Analyzed: 03/16/25 05:42 Sequence: 5 Standard ID: 25C15263

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5408.413	5441.372	5332.032	5451.834
YTTRIUM	360.073	Axial	54840.49	55089.13	54355.57	55076.77
YTTRIUM	360.073	Radial	4341.829	4361.002	4345.216	4319.269
INDIUM	230.606	Axial	1245.277	1243.192	1238.909	1253.731

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	234.5745	236.4654	231.6850	235.5730
ANTIMONY	206.833	Axial	31.34199	31.82207	31.87169	30.33220
ARSENIC	189.042	Axial	82.57084	80.92351	83.70023	83.08877
BARIUM	233.527	Axial	1236.515	1229.823	1235.650	1244.072
BERYLLIUM	313.042	Radial	1387.849	1397.770	1382.745	1383.032
BORON	249.678	Radial	88.48625	88.76562	89.01680	87.67634
CADMIUM	228.802	Axial	493.8062	491.2608	492.6234	497.5343
CALCIUM	317.933	Radial	4839.730	4870.788	4813.161	4835.240
CHROMIUM	267.716	Axial	980.2017	974.2666	975.7078	990.6307
COBALT	228.616	Axial	314.9470	314.9534	306.3357	323.5520
COPPER	324.754	Axial	1979.281	1979.142	1955.653	2003.047
IRON	259.940	Radial	1043.680	1034.747	1040.273	1056.020
LEAD	220.353	Axial	89.77742	90.93074	88.08454	90.31697
LITHIUM	670.784	Radial	499.7964	502.9867	495.6298	500.7726
MAGNESIUM	279.079	Radial	372.8285	374.2221	370.2386	374.0247
MANGANESE	257.610	Axial	9008.543	8977.356	9008.766	9039.507
MOLYBDENUM	202.030	Axial	90.76450	90.27708	90.35830	91.65811
NICKEL	231.604	Axial	363.1275	361.2293	360.5439	367.6094
PHOSPHORUS	177.495	Axial	76.26552	75.56818	75.44417	77.78420
POTASSIUM	766.490	Radial	1972.001	1975.408	1964.213	1976.382
SELENIUM	196.090	Axial	52.20106	52.66172	50.63512	53.30633
SILICON	251.611	Axial	840.3986	839.7303	825.0185	856.4471
SILVER	328.068	Axial	947.6394	949.5447	937.3157	956.0577
SODIUM	589.592	Radial	7773.194	7808.897	7727.230	7783.454
SODIUM	818.326	Radial	165.2214	165.0957	169.4495	161.1191
STRONTIUM	421.552	Radial	4542.374	4617.282	4546.912	4462.927
SULFUR	182.034	Axial	109.0088	108.3702	108.2760	110.3801
THALLIUM	190.856	Axial	61.14135	60.55425	60.85106	62.01874
TIN	189.989	Axial	81.29983	81.18326	79.71539	83.00084
TITANIUM	334.941	Radial	715.7023	716.6882	713.9569	716.4618
VANADIUM	292.402	Radial	258.4339	259.6470	258.8021	256.8528
ZINC	206.200	Axial	1043.288	1052.204	1025.334	1052.325

Sample ID: STD4 Units: mg/l
Analyzed: 03/16/25 05:43 Sequence: 6 Standard ID: 25C15264

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5468.011	5461.677	5488.908	5453.449
YTTRIUM	360.073	Axial	54667.71	54485.67	54829.65	54687.82
YTTRIUM	360.073	Radial	4368.767	4379.679	4385.970	4340.651
INDIUM	230.606	Axial	1230.578	1224.320	1234.109	1233.305

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	579.9155	583.4982	581.7360	574.5125
ANTIMONY	206.833	Axial	73.02142	71.28729	73.85682	73.92014
ARSENIC	189.042	Axial	200.5961	199.6143	201.7122	200.4619
BARIUM	233.527	Axial	3071.485	3039.290	3082.757	3092.408
BERYLLIUM	313.042	Radial	3458.561	3477.974	3462.448	3435.260
BORON	249.678	Radial	219.7021	221.0232	219.8990	218.1842
CADMIUM	228.802	Axial	1202.315	1193.198	1208.159	1205.587
CALCIUM	317.933	Radial	11863.19	11882.08	11909.80	11797.69
CALCIUM	373.690	Radial	5429.331	5445.039	5442.608	5400.347
CHROMIUM	267.716	Axial	2431.082	2410.775	2447.082	2435.389
COBALT	228.616	Axial	779.1030	778.1838	777.0765	782.0488
COPPER	324.754	Axial	4762.898	4731.092	4784.087	4773.516
IRON	259.940	Radial	2594.045	2586.489	2598.269	2597.377
IRON	271.441	Radial	219.6996	220.2770	219.7857	219.0360
LEAD	220.353	Axial	213.5400	210.9606	212.6864	216.9730
LITHIUM	670.784	Radial	1199.277	1198.917	1209.967	1188.946
MAGNESIUM	279.079	Radial	920.1825	926.5684	921.6840	912.2951
MANGANESE	257.610	Axial	22334.38	22186.99	22354.93	22461.22
MOLYBDENUM	202.030	Axial	223.2622	221.3824	223.4524	224.9519
NICKEL	231.604	Axial	897.3285	892.2815	902.4862	897.2177
PHOSPHORUS	177.495	Axial	187.8830	183.9453	189.5125	190.1912
POTASSIUM	766.490	Radial	4901.316	4880.683	4924.984	4898.281
SELENIUM	196.090	Axial	127.9520	126.3903	128.6756	128.7900
SILICON	251.611	Axial	2061.793	2039.335	2067.493	2078.552
SILVER	328.068	Axial	2349.424	2331.304	2357.754	2359.213
SODIUM	818.326	Radial	418.7514	419.9297	418.7577	417.5667
STRONTIUM	421.552	Radial	11176.16	11259.16	11209.49	11059.82
SULFUR	182.034	Axial	265.7561	261.5683	268.2675	267.4325
THALLIUM	190.856	Axial	147.2029	144.5753	148.6859	148.3474
TIN	189.989	Axial	198.3657	197.1932	199.7630	198.1408
TITANIUM	334.941	Radial	1768.682	1778.316	1770.190	1757.541
VANADIUM	292.402	Radial	642.9218	650.7047	642.8392	635.2215
ZINC	206.200	Axial	2395.841	2389.404	2402.908	2395.212

Sample ID: STD5 Units: mg/l
Analyzed: 03/16/25 05:45 Sequence: 7 Standard ID: 25C15265

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5383.760	5369.463	5369.541	5412.276
YTTRIUM	360.073	Axial	53922.11	53876.44	53400.28	54489.61
YTTRIUM	360.073	Radial	4368.955	4343.356	4377.274	4386.236
INDIUM	230.606	Axial	1195.295	1192.607	1189.730	1203.547

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1180.358	1168.903	1180.159	1192.013
ANTIMONY	206.833	Axial	145.2784	144.5647	144.9420	146.3286
ARSENIC	189.042	Axial	398.4125	397.1250	397.3164	400.7961
BARIUM	233.527	Axial	6087.560	6061.002	6061.849	6139.830
BERYLLIUM	313.042	Radial	6953.815	6903.622	7003.630	6954.193
BORON	249.678	Radial	444.7931	440.8432	446.7307	446.8055
CADMIUM	228.802	Axial	2418.675	2413.896	2394.712	2447.417
CALCIUM	373.690	Radial	10809.93	10740.39	10797.44	10891.97
CHROMIUM	267.716	Axial	4858.578	4844.616	4828.235	4902.884
COBALT	228.616	Axial	1540.339	1530.874	1536.010	1554.132
COPPER	324.754	Axial	9356.956	9334.229	9271.369	9465.270
IRON	271.441	Radial	439.8538	438.9843	440.1373	440.4397
LEAD	220.353	Axial	425.8081	423.8953	419.1674	434.3615
LITHIUM	670.784	Radial	2437.944	2429.824	2432.929	2451.079
MAGNESIUM	279.079	Radial	1855.880	1844.537	1856.978	1866.126
MANGANESE	257.610	Axial	44664.49	44567.40	44186.77	45239.30
MOLYBDENUM	202.030	Axial	444.0657	444.4911	440.7485	446.9574
NICKEL	231.604	Axial	1790.078	1785.219	1781.563	1803.454
PHOSPHORUS	177.495	Axial	376.0321	375.9435	377.3874	374.7655
POTASSIUM	766.490	Radial	9921.847	9772.127	9990.291	10003.12
SELENIUM	196.090	Axial	258.9820	259.0820	255.3588	262.5052
SILICON	251.611	Axial	4131.924	4103.149	4094.022	4198.602
SILVER	328.068	Axial	4648.773	4651.767	4588.345	4706.206
SODIUM	818.326	Radial	858.3158	851.1235	862.4149	861.4088
STRONTIUM	421.552	Radial	22367.24	22499.94	22195.79	22405.99
SULFUR	182.034	Axial	532.0086	531.9394	533.0864	531.0001
THALLIUM	190.856	Axial	284.9718	286.4659	280.2290	288.2204
TIN	189.989	Axial	389.3295	387.6357	389.6033	390.7494
TITANIUM	334.941	Radial	3568.286	3564.089	3561.831	3578.938
VANADIUM	292.402	Radial	1295.048	1283.687	1297.248	1304.210
ZINC	206.200	Axial	4672.473	4655.424	4629.665	4732.329

Sample ID: STD6 Units: mg/l
Analyzed: 03/16/25 05:46 Sequence: 8 Standard ID: 25C15266

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5269.668	5198.136	5310.571	5300.298
YTTRIUM	360.073	Axial	52078.93	51609.71	52358.08	52268.98
YTTRIUM	360.073	Radial	4375.526	4353.216	4369.202	4404.160
INDIUM	230.606	Axial	1152.092	1136.516	1162.379	1157.382

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	2374.726	2371.900	2371.654	2380.625
ANTIMONY	206.833	Axial	278.9585	274.0258	280.7856	282.0641
ARSENIC	189.042	Axial	777.8580	765.6272	782.7725	785.1744
BARIUM	233.527	Axial	11744.49	11591.92	11810.21	11831.34
BERYLLIUM	313.042	Radial	13842.67	13811.28	13790.08	13926.66
BORON	249.678	Radial	884.1652	880.8450	881.5697	890.0810
CADMIUM	228.802	Axial	4771.007	4692.953	4795.648	4824.419
CALCIUM	373.690	Radial	21353.82	21299.82	21278.68	21482.95
CERIUM	535.353	Radial	919.5249	918.2726	916.7120	923.5901
CHROMIUM	267.716	Axial	9420.393	9329.567	9476.200	9455.413
COBALT	228.616	Axial	3052.052	3000.185	3056.892	3099.080
COPPER	324.754	Axial	18017.93	17734.09	18004.54	18315.15
IRON	271.441	Radial	864.8693	866.7367	859.7151	868.1561
LANTHANUM	333.749	Radial	5524.471	5442.946	5542.158	5588.308
LEAD	220.353	Axial	812.0715	798.9997	812.8527	824.3621
LITHIUM	670.784	Radial	5002.930	4998.476	4985.717	5024.597
MAGNESIUM	279.079	Radial	3668.680	3662.931	3654.245	3688.865
MANGANESE	257.610	Axial	87299.25	85808.03	87812.78	88276.96
MOLYBDENUM	202.030	Axial	857.7788	839.7148	865.3463	868.2755
NICKEL	231.604	Axial	3503.918	3443.456	3528.345	3539.953
PHOSPHORUS	177.495	Axial	737.3775	734.8367	743.6347	733.6611
POTASSIUM	766.490	Radial	19713.15	19503.96	19708.08	19927.41
SELENIUM	196.090	Axial	511.0948	500.1726	516.2332	516.8787
SILICON	251.611	Axial	8069.993	7838.358	8113.469	8258.153
SILVER	328.068	Axial	9085.565	8983.510	9127.799	9145.386
SODIUM	818.326	Radial	1746.964	1730.873	1748.070	1761.948
STRONTIUM	421.552	Radial	44757.99	45037.86	44496.65	44739.45
SULFUR	182.034	Axial	1034.798	1030.173	1038.219	1036.002
THALLIUM	190.856	Axial	542.5090	532.6079	545.1249	549.7941
TIN	189.989	Axial	741.1991	730.6761	748.9708	743.9503
TITANIUM	334.941	Radial	7042.538	7066.833	6984.575	7076.205
VANADIUM	292.402	Radial	2578.518	2576.391	2567.763	2591.400
ZINC	206.200	Axial	9428.095	9231.064	9506.364	9546.857

Sample ID: STD7 Units: mg/l
Analyzed: 03/16/25 05:48 Sequence: 9 Standard ID: 25C09297

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5137.675	5142.020	5117.637	5153.369
YTTRIUM	360.073	Axial	50868.99	50933.97	50711.25	50961.75
YTTRIUM	360.073	Radial	4349.603	4346.241	4352.511	4350.059
INDIUM	230.606	Axial	1036.410	1038.845	1038.481	1031.905

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	29809.00	29809.36	29809.63	29808.02
CALCIUM	373.690	Radial	51713.80	51704.79	51883.57	51553.05
IRON	271.441	Radial	4299.415	4295.095	4304.137	4299.013
MAGNESIUM	279.079	Radial	45607.32	45471.74	45622.32	45727.89
SODIUM	818.326	Radial	4583.849	4561.807	4619.389	4570.352
SULFUR	182.034	Axial	5279.001	5322.553	5254.717	5259.733

Sample ID: ICV-2 Units: mg/l
Analyzed: 03/16/25 05:50 Sequence: 10 Standard ID: 25C15267

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	5459.469	5480.922	5463.902	5488.227	5404.824
YTTRIUM	360.073	Axial	55100.96	55340.12	55215.37	55465.27	54383.09
YTTRIUM	360.073	Radial	4383.435	4409.590	4400.173	4345.451	4378.526
INDIUM	230.606	Axial	1247.699	1249.980	1248.180	1255.585	1237.052

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	607.0112	10.14212	10.19402	10.14302	10.09845	10.13297
ANTIMONY	206.833	Axial	150.1579	1.031651	1.021479	1.029608	1.034946	1.040569
ARSENIC	189.042	Axial	203.9376	1.003228	0.9885986	1.001964	1.011680	1.010667
BARIUM	233.527	Axial	6218.928	1.018967	1.009296	1.021743	1.016973	1.027856
BERYLLIUM	313.042	Radial	17335.24	0.9988865	0.9965476	0.9996884	0.9984866	1.000823
BORON	249.678	Radial	219.3698	0.9870374	0.9818668	0.9941277	0.9782272	0.9939278
CADMIUM	228.802	Axial	2472.435	1.003317	1.000091	0.9978526	1.003926	1.011398
CALCIUM	317.933	Radial	2458.585	10.22142	10.26635	10.23190	10.17007	10.21736
CHROMIUM	267.716	Axial	2444.679	0.9991311	0.9931121	0.9981782	1.000704	1.004530
COBALT	228.616	Axial	782.5156	0.9506085	0.9452198	0.9460050	0.9567551	0.9544540
COPPER	324.754	Axial	4924.277	1.030724	1.026502	1.025483	1.032161	1.038748
IRON	259.940	Radial	2663.428	10.21671	10.33939	10.12397	10.10618	10.29731
LEAD	220.353	Axial	434.1663	0.9856196	0.9876178	0.9852481	0.9810217	0.9885910
LITHIUM	670.784	Radial	1197.379	0.9643840	0.9693514	0.9594445	0.9593934	0.9693467
MAGNESIUM	279.079	Radial	939.3231	10.22455	10.23490	10.22270	10.22230	10.21830
MANGANESE	257.610	Axial	22143.65	0.9797668	0.9739846	0.9786878	0.9796117	0.9867831
MOLYBDENUM	202.030	Axial	933.8120	1.046838	1.043526	1.040685	1.048919	1.054225
NICKEL	231.604	Axial	906.8535	0.9605766	0.9539112	0.9583353	0.9590709	0.9709890
PHOSPHORUS	177.495	Axial	189.0351	0.9891897	0.9845909	0.9794469	0.9748342	1.017887
POTASSIUM	766.490	Radial	1000.478	10.39235	10.46656	10.34805	10.33294	10.42185
SELENIUM	196.090	Axial	129.2555	0.9764317	0.9842101	0.9647458	0.9757188	0.9810519
SILICON	251.611	Axial	1085.568	1.014786	0.9997499	1.001875	1.031575	1.025943
SILVER	328.068	Axial	4678.465	0.9779996	0.9749498	0.9792435	0.9721367	0.9856686
SODIUM	589.592	Radial	3999.851	10.28020	10.32596	10.24315	10.26173	10.28995
STRONTIUM	421.552	Radial	4577.748	0.4085662	0.4060800	0.4099940	0.4102792	0.4079116
SULFUR	182.034	Axial	537.1078	9.543662	9.445096	9.493147	9.407824	9.828579
THALLIUM	190.856	Axial	155.1221	1.048178	1.048934	1.048040	1.041321	1.054418
TIN	189.989	Axial	406.4277	1.009643	0.9976474	1.008189	1.001309	1.031429
TITANIUM	334.941	Radial	1794.900	1.015754	1.011794	1.013634	1.021941	1.015647
VANADIUM	292.402	Radial	645.8032	0.9971248	0.9998589	0.9945532	0.9980605	0.9960264
ZINC	206.200	Axial	2445.494	0.9769735	0.9769570	0.9707560	0.9860082	0.9741728
CERIUM	535.353	Radial	10.24010	0.01293750	0.002088822	0.03874317	-0.02359230	0.03451031
LANTHANUM	333.749	Radial	-4.64546	-0.01066138	-0.01234646	-0.006900968	-0.01579113	-0.007606945

Sample ID: ICB-2 Units: mg/l
Analyzed: 03/16/25 05:57 Sequence: 11

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5335.873	5307.671	5330.067	5369.880
YTTRIUM	360.073	Axial	54951.42	54338.51	55241.97	55273.77
YTTRIUM	360.073	Radial	4433.907	4426.663	4421.884	4453.172
INDIUM	230.606	Axial	1292.324	1285.134	1293.569	1298.269

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-0.3226813	0.03378037	0.02296808	0.04543718	0.03293585
ANTIMONY	206.833	Axial	0.1999917	-0.007787556	-0.008048477	-0.006428748	-0.008885444
ARSENIC	189.042	Axial	2.763147	0.0007982536	0.003132363	0.004251669	-0.004989271
BARIUM	233.527	Axial	-5.75753	-0.0003257435	-0.0004524885	-0.0003144098	-0.0002103322
BERYLLIUM	313.042	Radial	5.709001	0.0001332348	0.0001316613	0.0001655690	0.0001024742
BORON	249.678	Radial	0.8995626	0.0004870680	-0.005171741	0.001994541	0.004638403
CADMIUM	228.802	Axial	-0.9000140	0.0001884325	-0.0002764071	0.0009371734	-0.00009546884
CALCIUM	317.933	Radial	18.28751	-0.008379493	0.00008760667	-0.008212345	-0.01701374
CERIUM	535.353	Radial	13.70393	0.04925000	0.02301065	0.05725821	0.06748115
CHROMIUM	267.716	Axial	7.433842	0.001354798	0.0007947467	0.002407221	0.0008624269
COBALT	228.616	Axial	4.532628	-0.0001554786	0.0002264652	0.0006622752	-0.001355176
COPPER	324.754	Axial	6.909969	-0.0004120401	0.00001392247	-0.0005108350	-0.0007392078
IRON	259.940	Radial	2.430603	0.004640560	0.0009384057	0.01032433	0.002658943
LANTHANUM	333.749	Radial	1.422887	0.0002893738	0.0007548754	0.0004359108	-0.0003226649
LEAD	220.353	Axial	0.5781408	0.0003020214	0.004901034	-0.0004218056	-0.003573164
LITHIUM	670.784	Radial	66.92203	0.007310993	0.009701159	0.008919205	0.003312616
MAGNESIUM	279.079	Radial	-2.22774	-0.01753131	-0.01117887	-0.04166064	0.0002455697
MANGANESE	257.610	Axial	-2.53347	-0.000007249312	0.0001075191	-0.0001293197	0.00000005269071
MOLYBDENUM	202.030	Axial	-1.32679	0.0002230629	-0.0001390840	0.0004714525	0.0003368203
NICKEL	231.604	Axial	0.9695951	0.0003898700	0.001273365	0.002208195	-0.002311950
PHOSPHORUS	177.495	Axial	0.7279589	0.001329580	0.0003735148	0.0001128085	0.003502417
POTASSIUM	766.490	Radial	-37.0157	-0.07338764	-0.09017764	-0.04745385	-0.08253142
SELENIUM	196.090	Axial	-0.3183685	-0.007473532	-0.01378017	-0.003974619	-0.004665813
SILICON	251.611	Axial	5.089683	-0.002470128	-0.003648564	-0.001773048	-0.001988771
SILVER	328.068	Axial	-17.4188	0.001657312	0.0007392614	0.001686713	0.002545961
SODIUM	589.592	Radial	-48.9442	0.06047946	0.05563396	0.05216366	0.07364075
STRONTIUM	421.552	Radial	2.251142	0.0006328957	0.0006768775	0.0007203414	0.0005014682
SULFUR	182.034	Axial	4.030908	0.01317412	0.008298911	0.01606548	0.01515798
THALLIUM	190.856	Axial	0.3881761	-0.004223842	-0.007291534	-0.004524536	-0.0008554555
TIN	189.989	Axial	1.068376	0.001141662	0.0005963361	0.001795065	0.001033584
TITANIUM	334.941	Radial	-4.50678	-0.0002017298	-0.0005493586	0.0002174754	-0.0002733062
VANADIUM	292.402	Radial	1.217740	-0.0008243692	0.00003951278	0.0002920646	-0.002804685
ZINC	206.200	Axial	111.8298	0.0006740713	0.001023580	0.0005784367	0.0004201970

Sample ID: ICVLL-2 Units: mg/l
Analyzed: 03/16/25 06:02 Sequence: 14 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5443.291	5408.395	5418.664	5502.813
YTTRIUM	360.073	Axial	55644.74	55442.18	55520.67	55971.37
YTTRIUM	360.073	Radial	4409.559	4439.328	4389.275	4400.074
INDIUM	230.606	Axial	1279.781	1272.632	1274.467	1292.244

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	10.29842	0.2094088	0.2297421	0.1992716	0.1992128
ANTIMONY	206.833	Axial	2.947579	0.01126944	0.005771757	0.01465418	0.01338240
ARSENIC	189.042	Axial	4.686596	0.01016895	0.01634875	0.01305900	0.001099108
BARIUM	233.527	Axial	26.80544	0.005040119	0.004790500	0.005052651	0.005277205
BERYLLIUM	313.042	Radial	37.43042	0.001952362	0.001923933	0.001903239	0.002029913
BORON	249.678	Radial	44.33972	0.1955043	0.1979927	0.1963853	0.1921349
CADMIUM	228.802	Axial	3.516115	0.001992609	0.001890058	0.002207573	0.001880196
CALCIUM	317.933	Radial	266.5624	1.026584	1.022034	1.034525	1.023193
CHROMIUM	267.716	Axial	31.56081	0.01119358	0.01027743	0.01096428	0.01233903
COBALT	228.616	Axial	13.51977	0.01060119	0.01123597	0.01010229	0.01046530
COPPER	324.754	Axial	62.78752	0.01116986	0.01159746	0.01069613	0.01121600
IRON	259.940	Radial	28.54827	0.1043286	0.1040218	0.1074189	0.1015450
LEAD	220.353	Axial	3.140539	0.005984469	0.006841363	0.006758309	0.004353735
LITHIUM	670.784	Radial	74.22293	0.01374497	0.01651708	0.01518964	0.009528199
MAGNESIUM	279.079	Radial	93.59648	1.018631	1.005925	1.016279	1.033690
MANGANESE	257.610	Axial	216.4587	0.009712115	0.009726349	0.009740612	0.009669384
MOLYBDENUM	202.030	Axial	3.690410	0.005884196	0.005808131	0.005711296	0.006133163
NICKEL	231.604	Axial	9.937536	0.009655914	0.009726840	0.008464822	0.01077608
PHOSPHORUS	177.495	Axial	19.89033	0.1020761	0.09818753	0.1052447	0.1027961
POTASSIUM	766.490	Radial	86.34882	1.162207	1.133806	1.134986	1.217828
SELENIUM	196.090	Axial	1.758781	0.008426749	0.01410606	0.005440920	0.005733265
SILICON	251.611	Axial	211.2073	0.1896347	0.1882318	0.1921170	0.1885553
SILVER	328.068	Axial	-4.57654	0.004351527	0.004214166	0.004479165	0.004361249
SODIUM	589.592	Radial	351.4904	1.064705	1.076394	1.063858	1.053865
STRONTIUM	421.552	Radial	111.4112	0.01030813	0.01031401	0.01032248	0.01028790
SULFUR	182.034	Axial	58.50563	0.9886384	0.9992811	0.9829850	0.9836489
THALLIUM	190.856	Axial	2.441892	0.009428856	0.01294341	0.005697634	0.009645527
TIN	189.989	Axial	21.67608	0.05113914	0.04861091	0.05264394	0.05216257
TITANIUM	334.941	Radial	86.41116	0.05081162	0.05133823	0.05080305	0.05029358
VANADIUM	292.402	Radial	14.46456	0.01956770	0.01939963	0.01799834	0.02130512
ZINC	206.200	Axial	226.2653	0.04780062	0.04761670	0.04843107	0.04735409
CERIUM	535.353	Radial	5.870320	-0.03530742	-0.02599279	-0.04860189	-0.03132757
LANTHANUM	333.749	Radial	0.04059337	-0.002174309	-0.003922679	0.00003572912	-0.002635976

Sample ID: ICSA-2 Units: mg/l
Analyzed: 03/16/25 06:04 Sequence: 15 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5051.012	5050.743	5018.433	5083.862
YTTRIUM	360.073	Axial	49911.50	49682.42	49870.76	50181.33
YTTRIUM	360.073	Radial	4236.313	4233.492	4217.584	4257.861
INDIUM	230.606	Axial	1039.177	1036.203	1033.716	1047.613

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	29463.90	507.4704	507.2977	506.8324	508.2810
ANTIMONY	206.833	Axial	1.206025	-0.0001958409	-0.004467308	-0.003409979	0.007289764
ARSENIC	189.042	Axial	0.02807865	-0.01316824	-0.01227429	-0.01554804	-0.01168239
BARIUM	233.527	Axial	8.331123	0.002111885	0.002141771	0.001661941	0.002531942
BERYLLIUM	313.042	Radial	4.574346	0.00008042018	0.00001699523	0.00004007094	0.0001841944
BORON	249.678	Radial	-6.89836	-0.03575599	-0.03930742	-0.03465001	-0.03331054
CADMIUM	228.802	Axial	-2.54251	-0.0005566033	-0.001055238	-0.001209454	0.0005948821
CALCIUM	373.690	Radial	51437.17	508.0004	507.2073	507.5883	509.2055
CERIUM	535.353	Radial	11.69118	0.03331940	0.05944806	-0.001251989	0.04176212
CHROMIUM	267.716	Axial	9.344381	0.002375323	0.002901694	0.002086525	0.002137750
COBALT	228.616	Axial	7.566424	0.005599143	0.007727373	0.004691075	0.004378981
COPPER	324.754	Axial	6.483121	-0.0003677711	-0.0009228318	-0.00006912080	-0.0001113608
IRON	271.441	Radial	4246.674	202.8127	201.9560	203.1834	203.2988
LANTHANUM	333.749	Radial	-2.06812	-0.006121188	-0.005391739	-0.006371349	-0.006600477
LEAD	220.353	Axial	1.374651	0.002775865	0.001027768	0.005648305	0.001651520
LITHIUM	670.784	Radial	53.86152	-0.001519056	-0.003573415	0.0001976327	-0.001181385
MAGNESIUM	279.079	Radial	45768.02	515.1685	513.5742	516.1203	515.8111
MANGANESE	257.610	Axial	-138.824	-0.006530504	-0.006525689	-0.006422772	-0.006643050
MOLYBDENUM	202.030	Axial	-0.9248825	0.0006187101	0.0002582990	-0.0005044004	0.002102232
NICKEL	231.604	Axial	2.330531	0.002364387	0.002740712	0.003435244	0.0009172033
PHOSPHORUS	177.495	Axial	1.926423	0.008357779	0.01147358	0.008087351	0.005512411
POTASSIUM	766.490	Radial	-15.5746	0.1332627	0.1427127	0.1303137	0.1267616
SELENIUM	196.090	Axial	-0.0003571047	-0.004995748	-0.002348957	-0.008277917	-0.004360371
SILICON	251.611	Axial	-6.42485	-0.01394214	-0.01311480	-0.01339032	-0.01532131
SILVER	328.068	Axial	4.072285	0.006228122	0.006248392	0.006028934	0.006407040
SODIUM	589.592	Radial	-49.0506	0.05453532	0.03256086	0.06849179	0.06255330
STRONTIUM	421.552	Radial	68.82016	0.006782238	0.006843839	0.006540188	0.006962686
SULFUR	182.034	Axial	3.858916	0.01405061	0.003169682	0.02647027	0.01251187
THALLIUM	190.856	Axial	0.02610889	-0.006574276	-0.01491117	-0.005498427	0.0006867637
TIN	189.989	Axial	1.240200	0.002271462	0.001555269	0.0007311170	0.004528001
TITANIUM	334.941	Radial	-9.58142	-0.003284425	-0.004631810	-0.002584252	-0.002637212
VANADIUM	292.402	Radial	2.840850	0.001864090	0.0007961245	0.004323120	0.0004730266
ZINC	206.200	Axial	169.2313	0.02936218	0.02876858	0.02992661	0.02939134

Sample ID: ICSAB-2 Units: mg/l
Analyzed: 03/16/25 06:05 Sequence: 16 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5047.388	5092.714	4995.034	5054.417
YTTRIUM	360.073	Axial	49855.34	50140.99	49457.91	49967.12
YTTRIUM	360.073	Radial	4219.059	4226.567	4209.229	4221.381
INDIUM	230.606	Axial	1035.006	1041.379	1027.406	1036.232

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	29265.15	506.1119	505.2221	506.6498	506.4638
ANTIMONY	206.833	Axial	65.33051	0.4805983	0.4744087	0.4746301	0.4927560
ARSENIC	189.042	Axial	88.66493	0.4647800	0.4597582	0.4778506	0.4567312
BARIUM	233.527	Axial	2824.098	0.5008288	0.4970551	0.5023707	0.5030606
BERYLLIUM	313.042	Radial	8124.835	0.4863073	0.4862214	0.4861363	0.4865641
BORON	249.678	Radial	200.6451	0.9378103	0.9254584	0.9425001	0.9454725
CADMIUM	228.802	Axial	2198.300	0.9648954	0.9614495	0.9608890	0.9723477
CALCIUM	373.690	Radial	51290.12	508.6238	508.7044	510.0884	507.0785
CERIUM	535.353	Radial	12.64102	0.04473683	0.04745043	0.04242727	0.04433279
CHROMIUM	267.716	Axial	1118.516	0.4935894	0.4893690	0.4991499	0.4922494
COBALT	228.616	Axial	319.5229	0.4650892	0.4791651	0.4586011	0.4575016
COPPER	324.754	Axial	2127.147	0.4911014	0.4923785	0.4920524	0.4888733
IRON	271.441	Radial	4205.837	201.6831	201.1330	200.6418	203.2745
LANTHANUM	333.749	Radial	-5.89560	-0.01332609	-0.01308490	-0.01479063	-0.01210273
LEAD	220.353	Axial	392.1423	1.073286	1.059003	1.083832	1.077022
LITHIUM	670.784	Radial	52.38674	-0.002623887	-0.002279398	-0.002250556	-0.003341707
MAGNESIUM	279.079	Radial	45367.62	512.7504	510.8635	512.3562	515.0316
MANGANESE	257.610	Axial	10446.16	0.5000146	0.4940695	0.5061200	0.4998542
MOLYBDENUM	202.030	Axial	390.6757	0.4746569	0.4765819	0.4741821	0.4732067
NICKEL	231.604	Axial	803.4571	1.025957	1.030263	1.028217	1.019392
PHOSPHORUS	177.495	Axial	1.777512	0.007497304	0.007246298	0.002815851	0.01242976
POTASSIUM	766.490	Radial	-16.8354	0.1193920	0.1031707	0.1360547	0.1189506
SELENIUM	196.090	Axial	53.65905	0.4356399	0.4407190	0.4236206	0.4425802
SILICON	251.611	Axial	822.6607	0.8487207	0.8475989	0.8462805	0.8522827
SILVER	328.068	Axial	4540.680	1.048660	1.042537	1.051439	1.052004
SODIUM	589.592	Radial	-45.2818	0.06389033	0.06482444	0.06011530	0.06673126
STRONTIUM	421.552	Radial	67.66521	0.006701876	0.006746177	0.006727561	0.006631891
SULFUR	182.034	Axial	4.337002	0.02342399	0.01540586	0.04473807	0.01012804
THALLIUM	190.856	Axial	52.75489	0.4256598	0.4391723	0.4101758	0.4276314
TIN	189.989	Axial	170.4282	0.5096439	0.5111552	0.5109033	0.5068732
TITANIUM	334.941	Radial	824.0637	0.4857184	0.4812337	0.4864000	0.4895216
VANADIUM	292.402	Radial	293.6639	0.4696584	0.4727665	0.4651728	0.4710359
ZINC	206.200	Axial	2062.235	0.8869943	0.8864190	0.8883232	0.8862408

Sample ID: CCV Units: mg/l
Analyzed: 03/16/25 17:40 Sequence: 182 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5159.167	5157.073	5192.274	5128.153
YTTRIUM	360.073	Axial	51855.95	52217.32	51832.52	51518.00
YTTRIUM	360.073	Radial	4246.245	4248.330	4255.367	4235.037
INDIUM	230.606	Axial	1166.599	1164.576	1173.136	1162.084

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	554.0728	9.559098	9.529285	9.596852	9.551156
ANTIMONY	206.833	Axial	72.54941	0.5229541	0.5266248	0.5190112	0.5232263
ARSENIC	189.042	Axial	199.1950	1.037387	1.036419	1.031059	1.044684
BARIUM	233.527	Axial	2879.963	0.4996650	0.5002590	0.4972806	0.5014554
BERYLLIUM	313.042	Radial	3271.564	0.1944486	0.1942048	0.1946548	0.1944861
BORON	249.678	Radial	211.9791	0.9846050	0.9792374	0.9891526	0.9854250
CADMIUM	228.802	Axial	1186.609	0.5098297	0.5124191	0.5063616	0.5107085
CALCIUM	317.933	Radial	11326.05	48.92575	48.99331	48.89652	48.88741
CHROMIUM	267.716	Axial	2272.472	0.9827902	0.9806328	0.9776518	0.9900859
COBALT	228.616	Axial	749.4280	0.9738715	0.9711455	0.9633425	0.9871264
COPPER	324.754	Axial	4853.297	1.079459	1.086037	1.081429	1.070912
IRON	259.940	Radial	2494.135	9.876627	9.886494	9.836601	9.906787
LEAD	220.353	Axial	204.9067	0.4970076	0.4973635	0.4986549	0.4950043
LITHIUM	670.784	Radial	1163.115	0.9672062	0.9679618	0.9632440	0.9704129
MAGNESIUM	279.079	Radial	883.3995	9.926689	9.914923	9.943860	9.921283
MANGANESE	257.610	Axial	20777.79	0.9728333	0.9734930	0.9699015	0.9751053
MOLYBDENUM	202.030	Axial	211.1709	0.2518358	0.2528178	0.2502762	0.2524134
NICKEL	231.604	Axial	858.6818	0.9727635	0.9687683	0.9730102	0.9765120
PHOSPHORUS	177.495	Axial	189.9018	1.051708	1.035820	1.038981	1.080323
POTASSIUM	766.490	Radial	4841.832	50.73770	50.89791	50.53357	50.78163
SELENIUM	196.090	Axial	127.1624	1.016738	1.013124	1.016919	1.020172
SILICON	251.611	Axial	2026.114	2.019699	1.999264	2.021726	2.038108
SILVER	328.068	Axial	2314.139	0.5165223	0.5151662	0.5175607	0.5168399
SODIUM	818.326	Radial	397.5845	45.96701	45.73474	46.28794	45.87835
STRONTIUM	421.552	Radial	10785.67	0.9930937	0.9873590	0.9949907	0.9969314
SULFUR	182.034	Axial	271.4139	5.074785	4.989601	5.082144	5.152609
THALLIUM	190.856	Axial	139.9787	1.011352	1.007012	1.010839	1.016206
TIN	189.989	Axial	192.0175	0.5094300	0.5019427	0.5116631	0.5146842
TITANIUM	334.941	Radial	1687.223	0.9857122	0.9852958	0.9879015	0.9839392
VANADIUM	292.402	Radial	613.3660	0.9775864	0.9755802	0.9788820	0.9782971
ZINC	206.200	Axial	2345.997	0.9925255	0.9906569	0.9900348	0.9968847
CERIUM	535.353	Radial	5.830554	-0.03327651	-0.07805424	0.007357530	-0.02913283
LANTHANUM	333.749	Radial	-5.28628	-0.01211690	-0.01347458	-0.01122617	-0.01164994

Sample ID: CCB Units: mg/l
Analyzed: 03/16/25 17:42 Sequence: 183

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4987.137	4963.294	4992.937	5005.180
YTTRIUM	360.073	Axial	51198.71	51006.39	51315.55	51274.20
YTTRIUM	360.073	Radial	4249.816	4298.267	4219.127	4232.053
INDIUM	230.606	Axial	1179.424	1169.881	1184.456	1183.935

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-2.80877	-0.009068380	-0.02604724	-0.02992475	0.02876686
ANTIMONY	206.833	Axial	1.192364	-0.0001665968	-0.002186090	-0.0006383035	0.002324604
ARSENIC	189.042	Axial	0.3724260	-0.01128564	-0.01477481	-0.007413618	-0.01166849
BARIUM	233.527	Axial	-5.88965	-0.0004154259	0.00003945650	-0.0007670075	-0.0005187265
BERYLLIUM	313.042	Radial	2.288035	-0.00005685675	0.00006130144	-0.0001919016	-0.00003997007
BORON	249.678	Radial	0.8433179	0.0003939783	0.002072288	-0.003647634	0.002757281
CADMIUM	228.802	Axial	-1.10142	0.00007086652	-0.0007530144	0.0004798670	0.0004857469
CALCIUM	317.933	Radial	21.15050	0.007309474	0.0003921137	0.01642636	0.005109951
CERIUM	535.353	Radial	3.998674	-0.05399260	-0.07067072	-0.1040073	0.01270024
CHROMIUM	267.716	Axial	7.924301	0.001793512	0.002581404	0.001038233	0.001760900
COBALT	228.616	Axial	5.935557	0.002168466	0.002350157	0.0002290482	0.003926192
COPPER	324.754	Axial	29.28046	0.004740423	0.004874994	0.005496650	0.003849625
IRON	259.940	Radial	2.009325	0.003400641	-0.002578930	0.006506349	0.006274503
LANTHANUM	333.749	Radial	1.014180	-0.0003697753	0.0004226837	-0.002343810	0.0008118007
LEAD	220.353	Axial	-0.1078563	-0.001244224	-0.002232702	-0.001586118	0.00008614857
LITHIUM	670.784	Radial	75.01588	0.01680394	0.01425087	0.01698405	0.01917690
MAGNESIUM	279.079	Radial	-2.56960	-0.02235716	-0.02091438	-0.01143196	-0.03472514
MANGANESE	257.610	Axial	3.393371	0.0002718786	0.0003683089	0.0002502737	0.0001970531
MOLYBDENUM	202.030	Axial	-2.00001	-0.0007078035	-0.001035891	-0.0003546607	-0.0007328586
NICKEL	231.604	Axial	0.2030911	-0.0003739108	0.001148945	0.0008162467	-0.003086924
PHOSPHORUS	177.495	Axial	1.617235	0.006729815	0.01231708	0.003947651	0.003924711
POTASSIUM	766.490	Radial	-27.2048	0.01296404	-0.03372910	0.02404215	0.04857908
SELENIUM	196.090	Axial	0.1610032	-0.003655266	-0.005459938	-0.008573352	0.003067494
SILICON	251.611	Axial	7.218800	0.00005059425	0.002180533	-0.003724457	0.001695707
SILVER	328.068	Axial	-29.0967	-0.001218722	-0.002316931	-0.0003739820	-0.0009652518
SODIUM	589.592	Radial	-52.4984	0.04593519	0.05141050	0.04690818	0.03948690
STRONTIUM	421.552	Radial	2.763343	0.0006885058	0.0006535620	0.0007146116	0.0006973438
SULFUR	182.034	Axial	4.595038	0.02940668	0.03597746	0.03470104	0.01754153
THALLIUM	190.856	Axial	0.4517478	-0.003518432	-0.005160372	-0.002535938	-0.002858986
TIN	189.989	Axial	-0.4202106	-0.002514726	0.001032178	-0.003281833	-0.005294521
TITANIUM	334.941	Radial	-3.58027	0.0002299787	-0.0001124781	-0.0001341377	0.0009365518
VANADIUM	292.402	Radial	-0.3878676	-0.003301197	-0.004471285	0.001262392	-0.006694699
ZINC	206.200	Axial	118.1296	0.006913404	0.007152510	0.007319726	0.006267977

Sample ID: ICSA Units: mg/l
Analyzed: 03/16/25 17:44 Sequence: 184 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4919.909	4907.735	4911.703	4940.289
YTTRIUM	360.073	Axial	48828.58	48795.12	48717.86	48972.76
YTTRIUM	360.073	Radial	4086.984	4071.452	4072.751	4116.750
INDIUM	230.606	Axial	1000.700	997.2979	1001.435	1003.369

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	27883.44	497.8073	499.0837	498.6164	495.7219
ANTIMONY	206.833	Axial	0.3609497	-0.006434311	-0.008271550	-0.005558519	-0.005472865
ARSENIC	189.042	Axial	-0.8138007	-0.01782603	-0.01854066	-0.02405087	-0.01088656
BARIUM	233.527	Axial	6.899403	0.001893061	0.001945746	0.001910110	0.001823327
BERYLLIUM	313.042	Radial	3.069153	-0.000002604802	-0.00006927843	0.00001007950	0.00005138453
BORON	249.678	Radial	-7.04779	-0.03767201	-0.03751156	-0.04283869	-0.03266577
CADMIUM	228.802	Axial	-2.56200	-0.0005904635	0.0001209387	-0.001039083	-0.0008532468
CALCIUM	373.690	Radial	48561.81	497.1405	499.2454	498.2216	493.9544
CERIUM	535.353	Radial	12.48363	0.04746048	0.02123959	0.05161203	0.06952981
CHROMIUM	267.716	Axial	4.976892	0.0005021282	0.001585577	-0.0003672389	0.0002880470
COBALT	228.616	Axial	7.866080	0.006474630	0.003992300	0.007941550	0.007490040
COPPER	324.754	Axial	-0.05208082	-0.001879785	-0.001047253	-0.002543915	-0.002048188
IRON	271.441	Radial	4015.842	198.7999	199.1665	199.8261	197.4072
LANTHANUM	333.749	Radial	-0.8997770	-0.003998997	-0.004748783	-0.003402636	-0.003845572
LEAD	220.353	Axial	-0.2918525	-0.001818894	-0.007263610	-0.001697470	0.003504396
LITHIUM	670.784	Radial	64.77834	0.01011518	0.01335017	0.008587024	0.008408354
MAGNESIUM	279.079	Radial	43031.05	502.0706	503.0691	504.3825	498.7601
MANGANESE	257.610	Axial	-152.113	-0.007360305	-0.007314143	-0.007443792	-0.007322979
MOLYBDENUM	202.030	Axial	-2.40877	-0.001247625	-0.001764523	-0.0003139833	-0.001664370
NICKEL	231.604	Axial	1.071382	0.0008080131	0.0008455208	0.0002156180	0.001362901
PHOSPHORUS	177.495	Axial	1.277370	0.004868671	0.008298157	0.002899217	0.003408638
POTASSIUM	766.490	Radial	-17.6939	0.1043370	0.04757685	0.1529273	0.1125070
SELENIUM	196.090	Axial	-1.43453	-0.01706813	-0.01585187	-0.01692455	-0.01842796
SILICON	251.611	Axial	-5.42737	-0.01303344	-0.01300710	-0.01248996	-0.01360326
SILVER	328.068	Axial	-4.59362	0.004215974	0.005111189	0.003527246	0.004009488
SODIUM	589.592	Radial	-39.7857	0.07495561	0.07920540	0.07561810	0.07004332
STRONTIUM	421.552	Radial	70.04469	0.007132692	0.007172640	0.007299928	0.006925509
SULFUR	182.034	Axial	4.093100	0.02064688	0.01815987	0.01965463	0.02412614
THALLIUM	190.856	Axial	-0.03751214	-0.007083891	-0.007847881	-0.01102010	-0.002383693
TIN	189.989	Axial	1.171165	0.002213007	0.004156659	0.001929792	0.0005525713
TITANIUM	334.941	Radial	-11.2756	-0.004512312	-0.004512123	-0.003895475	-0.005129339
VANADIUM	292.402	Radial	-0.2004558	-0.003028137	-0.004873668	-0.001895103	-0.002315641
ZINC	206.200	Axial	169.4904	0.03152360	0.03166584	0.03169982	0.03120515

Sample ID: ICSAB Units: mg/l
Analyzed: 03/16/25 17:45 Sequence: 185 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4910.123	4898.435	4931.802	4900.131
YTTRIUM	360.073	Axial	49170.57	49121.73	49417.28	48972.71
YTTRIUM	360.073	Radial	4082.511	4100.657	4085.470	4061.406
INDIUM	230.606	Axial	997.5278	994.3283	1003.458	994.7974

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	27984.15	500.1472	499.1200	500.6177	500.7040
ANTIMONY	206.833	Axial	65.43758	0.4951016	0.4822258	0.5049615	0.4981174
ARSENIC	189.042	Axial	88.05458	0.4746757	0.4735456	0.4845024	0.4659791
BARIUM	233.527	Axial	2686.697	0.4897804	0.4890317	0.4898123	0.4904971
BERYLLIUM	313.042	Radial	7779.787	0.4812259	0.4810543	0.4823215	0.4803019
BORON	249.678	Radial	195.6978	0.9452978	0.9491242	0.9395316	0.9472376
CADMIUM	228.802	Axial	2231.240	1.006719	1.004764	1.004903	1.010489
CALCIUM	373.690	Radial	48739.18	499.4934	498.1581	500.6025	499.7195
CERIUM	535.353	Radial	11.33766	0.03421823	0.08811031	-0.05593443	0.07047882
CHROMIUM	267.716	Axial	1072.236	0.4863323	0.4825021	0.4882148	0.4882798
COBALT	228.616	Axial	333.8029	0.5046429	0.5006513	0.5023294	0.5109480
COPPER	324.754	Axial	2125.207	0.4975194	0.4970038	0.4942505	0.5013038
IRON	271.441	Radial	4036.679	200.0453	200.0722	200.3006	199.7630
LANTHANUM	333.749	Radial	-4.99504	-0.01194756	-0.01360323	-0.009109649	-0.01312979
LEAD	220.353	Axial	373.9503	1.061893	1.068777	1.059363	1.057541
LITHIUM	670.784	Radial	68.07415	0.01316495	0.01270547	0.01504058	0.01174879
MAGNESIUM	279.079	Radial	43159.65	504.1081	505.3380	503.4158	503.5704
MANGANESE	257.610	Axial	9856.181	0.4849231	0.4817112	0.4875549	0.4855031
MOLYBDENUM	202.030	Axial	381.3741	0.4763113	0.4753561	0.4755966	0.4779810
NICKEL	231.604	Axial	783.9859	1.038711	1.034948	1.039526	1.041660
PHOSPHORUS	177.495	Axial	1.557676	0.006528497	0.009647147	0.0002875842	0.009650759
POTASSIUM	766.490	Radial	-19.9045	0.08030426	0.05537447	0.07295297	0.1125854
SELENIUM	196.090	Axial	53.58112	0.4473783	0.4394022	0.4391682	0.4635645
SILICON	251.611	Axial	835.8872	0.8745963	0.8687843	0.8787155	0.8762892
SILVER	328.068	Axial	4006.840	0.9387934	0.9306953	0.9438348	0.9418501
SODIUM	589.592	Radial	-43.8679	0.06375975	0.06932176	0.05194203	0.07001546
STRONTIUM	421.552	Radial	68.98667	0.007037754	0.007136357	0.007003846	0.006973058
SULFUR	182.034	Axial	5.044860	0.03974473	0.03728523	0.03601633	0.04593263
THALLIUM	190.856	Axial	51.87624	0.4344973	0.4175699	0.4349485	0.4509737
TIN	189.989	Axial	167.2771	0.5190412	0.5153145	0.5183710	0.5234379
TITANIUM	334.941	Radial	782.4776	0.4766613	0.4794311	0.4784032	0.4721496
VANADIUM	292.402	Radial	283.6724	0.4688403	0.4706936	0.4728852	0.4629422
ZINC	206.200	Axial	2088.122	0.9251608	0.9175151	0.9245243	0.9334430

Sample ID: BLANK DF: 1x Batch: WG2469953 Units: mg/kg
Analyzed: 03/16/25 17:51 Sequence: 188

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5082.062	5054.437	5027.352	5164.396
YTTRIUM	360.073	Axial	52545.02	52145.55	52411.87	53077.64
YTTRIUM	360.073	Radial	4339.962	4329.315	4356.950	4333.621
INDIUM	230.606	Axial	1229.256	1222.750	1214.854	1250.163

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.80648	-0.04174546	-0.04880211	-0.02725729	-0.04917698
ANTIMONY	206.833	Axial	1.342847	0.0008758511	0.01020933	0.002827566	-0.01040934
ARSENIC	189.042	Axial	1.393351	-0.005845371	-0.01085549	-0.001271498	-0.005409126
BARIUM	233.527	Axial	-5.31241	-0.0002925670	-0.0002240426	-0.00005953994	-0.0005941184
BERYLLIUM	313.042	Radial	2.427231	-0.00005059150	-0.0000004844373	-0.0001737424	0.00002245230
BORON	249.678	Radial	1.056568	0.001301350	-0.002077575	-0.001306464	0.007288089
CADMIUM	228.802	Axial	-1.93904	-0.0002889864	-0.0008161817	-0.0005361256	0.0004853480
CHROMIUM	267.716	Axial	8.055770	0.001781140	0.001897170	0.001435575	0.002010673
COBALT	228.616	Axial	4.686636	0.0003058062	-0.0003417440	0.0006249962	0.0006341665
COPPER	324.754	Axial	-3.32028	-0.002597219	-0.002834918	-0.002220516	-0.002736221
IRON	259.940	Radial	2.811762	0.006317324	0.01034657	0.003889171	0.004716230
LEAD	220.353	Axial	0.1006454	-0.0007529740	-0.005107540	0.002205935	0.0006426830
LITHIUM	670.784	Radial	77.96222	0.01794866	0.01759112	0.01780387	0.01845098
MANGANESE	257.610	Axial	-7.14460	-0.0002319302	-0.0001850890	-0.0002322455	-0.0002784560
MOLYBDENUM	202.030	Axial	-2.26629	-0.0009988490	-0.001638995	-0.002410997	0.001053445
NICKEL	231.604	Axial	-1.65790	-0.002394220	-0.001949193	-0.003071666	-0.002161801
POTASSIUM	766.490	Radial	-33.0921	-0.04141900	-0.03176807	-0.03824556	-0.05424337
SELENIUM	196.090	Axial	-1.06472	-0.01360127	-0.02465576	0.002805031	-0.01895308
SILVER	328.068	Axial	-22.7321	0.0003369855	0.0008850037	-0.0006264762	0.0007524288
SODIUM	589.592	Radial	-54.8715	0.04273775	0.04364773	0.05038506	0.03418044
THALLIUM	190.856	Axial	1.274615	0.001976034	0.008119109	-0.009098010	0.006907002
VANADIUM	292.402	Radial	0.7388007	-0.001545726	-0.005473980	0.002441591	-0.001604789
ZINC	206.200	Axial	111.5362	0.002942178	0.002854782	0.003900597	0.002071154
CALCIUM	317.933	Radial	20.87813	0.004223643	0.009552390	-0.001445175	0.004563714
CERIUM	535.353	Radial	4.688107	-0.04730599	-0.03505175	-0.06046203	-0.04640419
LANTHANUM	333.749	Radial	-1.40741	-0.004829183	-0.006391874	-0.001866005	-0.006229671
MAGNESIUM	279.079	Radial	-2.13531	-0.01699798	-0.01904471	-0.01308955	-0.01885969
PHOSPHORUS	177.495	Axial	2.686219	0.01255469	0.01383694	0.01013068	0.01369644
SILICON	251.611	Axial	10.08320	0.002677217	0.001697448	0.001884274	0.004449930
STRONTIUM	421.552	Radial	4.204775	0.0008126913	0.0006879786	0.0008597838	0.0008903115
SULFUR	182.034	Axial	5.793825	0.05072280	0.03955694	0.05894169	0.05366978
TIN	189.989	Axial	3.622033	0.007720422	0.008233627	0.007160364	0.007767276
TITANIUM	334.941	Radial	-3.21377	0.0004816053	0.0009195611	0.0001566570	0.0003685978

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2469953 Units: mg/kg
Analyzed: 03/16/25 17:52 Sequence: 189

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5257.537	5247.304	5270.274	5255.032
YTTRIUM	360.073	Axial	53150.58	53127.51	53026.35	53297.88
YTTRIUM	360.073	Radial	4271.618	4299.629	4251.292	4263.934
INDIUM	230.606	Axial	1206.007	1205.309	1206.775	1205.938

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	583.1775	9.999558	10.03868	9.983608	9.976390
ANTIMONY	206.833	Axial	151.6989	1.082704	1.082034	1.067720	1.098360
ARSENIC	189.042	Axial	206.4588	1.055314	1.062951	1.041496	1.061497
BARIUM	233.527	Axial	5955.206	1.013204	1.009902	1.010240	1.019471
BERYLLIUM	313.042	Radial	16689.71	0.9868714	0.9831527	0.9886276	0.9888340
BORON	249.678	Radial	211.7943	0.9778926	0.9745769	0.9806794	0.9784214
CADMIUM	228.802	Axial	2489.762	1.049114	1.045591	1.036399	1.065352
CHROMIUM	267.716	Axial	2313.425	0.9817573	0.9787382	0.9773732	0.9891605
COBALT	228.616	Axial	763.4444	0.9595487	0.9498606	0.9692102	0.9595753
COPPER	324.754	Axial	4911.310	1.065754	1.062212	1.062347	1.072704
IRON	259.940	Radial	2582.890	10.16774	10.09288	10.28456	10.12578
LEAD	220.353	Axial	429.8609	1.009592	1.004537	1.006973	1.017265
LITHIUM	670.784	Radial	1175.623	0.9720438	0.9663302	0.9743192	0.9754822
MANGANESE	257.610	Axial	21190.46	0.9735845	0.9713950	0.9681523	0.9812061
MOLYBDENUM	202.030	Axial	913.8479	1.063761	1.057896	1.055877	1.077511
NICKEL	231.604	Axial	883.4530	0.9681165	0.9623995	0.9663577	0.9755924
POTASSIUM	766.490	Radial	982.4051	10.47008	10.37121	10.59632	10.44271
SELENIUM	196.090	Axial	130.5326	1.024184	1.017743	1.025124	1.029685
SILVER	328.068	Axial	861.2405	0.1909194	0.1922196	0.1903069	0.1902318
SODIUM	589.592	Radial	3850.782	10.15865	10.08411	10.18592	10.20593
THALLIUM	190.856	Axial	149.9299	1.048096	1.050366	1.036470	1.057451
VANADIUM	292.402	Radial	621.9771	0.9854743	0.9776972	0.9942641	0.9844616
ZINC	206.200	Axial	2429.866	1.009518	0.9882437	1.014996	1.025313
CALCIUM	317.933	Radial	2334.201	9.956498	9.921257	10.01010	9.938134
CERIUM	535.353	Radial	10.09960	0.01447099	-0.01318381	0.03150488	0.02509191
LANTHANUM	333.749	Radial	-13.1941	-0.02672446	-0.02667599	-0.02672756	-0.02676985
MAGNESIUM	279.079	Radial	892.6749	9.971422	9.942398	9.994710	9.977158
PHOSPHORUS	177.495	Axial	198.2286	1.077291	1.105725	1.061059	1.065087
SILICON	251.611	Axial	986.7188	0.9557699	0.9400055	0.9596529	0.9676512
STRONTIUM	421.552	Radial	11052.51	1.011620	1.006685	1.010277	1.017898
SULFUR	182.034	Axial	556.3982	10.26995	10.49416	10.07450	10.24119
TIN	189.989	Axial	405.9319	1.043251	1.036904	1.045568	1.047281
TITANIUM	334.941	Radial	1759.214	1.021603	1.016815	1.026530	1.021464

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-06 DF: 1x Batch: WG2469953 Units: mg/kg
Analyzed: 03/16/25 17:54 Sequence: 190

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5467.367	5515.383	5449.433	5437.285
YTTRIUM	360.073	Axial	52924.22	53012.28	53018.05	52742.31
YTTRIUM	360.073	Radial	4380.562	4362.882	4366.525	4412.277
INDIUM	230.606	Axial	1053.863	1057.156	1053.414	1051.020

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	4682.081	78.01960	77.81470	78.23286	78.01124
ANTIMONY	206.833	Axial	1.139593	-0.001322885	-0.002268444	0.007935092	-0.009635303
ARSENIC	189.042	Axial	5.020682	0.01168345	0.01008091	0.01460630	0.01036315
BARIUM	233.527	Axial	6846.194	1.120096	1.103590	1.126954	1.129745
BERYLLIUM	313.042	Radial	84.71400	0.004693541	0.004616590	0.004822740	0.004641292
BORON	249.678	Radial	21.36996	0.09304500	0.09320158	0.09448434	0.09144910
CADMIUM	228.802	Axial	26.39171	0.01124849	0.01150934	0.01149600	0.01074014
CHROMIUM	267.716	Axial	258.3266	0.1038635	0.1006804	0.1043888	0.1065214
COBALT	228.616	Axial	42.49333	0.05596420	0.05577640	0.05767612	0.05444008
COPPER	324.754	Axial	426.5341	0.09125059	0.09071399	0.09153315	0.09150462
IRON	271.441	Radial	2732.998	126.1933	127.0352	125.8711	125.6737
LEAD	220.353	Axial	107.5057	0.2882454	0.2865885	0.2913367	0.2868111
LITHIUM	670.784	Radial	147.3800	0.07612028	0.07868350	0.07858775	0.07108960
MANGANESE	257.610	Axial	82404.02	3.640581	3.597264	3.670448	3.654031
MOLYBDENUM	202.030	Axial	10.93832	0.01397167	0.01305814	0.01360747	0.01524941
NICKEL	231.604	Axial	119.4359	0.1492670	0.1471644	0.1498687	0.1507679
POTASSIUM	766.490	Radial	1336.127	13.78880	13.76535	13.84368	13.75738
SELENIUM	196.090	Axial	0.5056121	-0.001156888	-0.00001881146	-0.0004875548	-0.002964299
SILVER	328.068	Axial	-31.1931	-0.001456015	-0.003154889	-0.0009926735	-0.0002204819
SODIUM	589.592	Radial	745.5665	2.066134	2.084773	2.062708	2.050921
THALLIUM	190.856	Axial	0.08893566	-0.006045224	-0.004412540	-0.01084351	-0.002879620
VANADIUM	292.402	Radial	105.3838	0.1605701	0.1646526	0.1569943	0.1600633
ZINC	206.200	Axial	4752.264	1.940069	1.981505	1.924922	1.913779
CALCIUM	373.690	Radial	153623.9	1467.305	1466.360	1471.438	1464.116
CERIUM	535.353	Radial	29.47932	0.2239498	0.2068382	0.1837289	0.2812824
LANTHANUM	333.749	Radial	48.80867	0.08601170	0.08439847	0.08644232	0.08719430
MAGNESIUM	279.079	Radial	9568.221	104.1597	104.3490	104.0662	104.0639
PHOSPHORUS	177.495	Axial	725.5241	3.798013	3.782987	3.840392	3.770659
SILICON	251.611	Axial	22054.77	21.61015	21.90754	21.52104	21.40186
STRONTIUM	421.552	Radial	20849.34	1.860469	1.860305	1.862562	1.858541
SULFUR	182.034	Axial	1509.557	26.89437	25.98729	27.58986	27.10597
TIN	189.989	Axial	5.123265	0.01366733	0.01318318	0.01207468	0.01574413
TITANIUM	334.941	Radial	2246.951	1.271811	1.279853	1.266774	1.268805

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1835560-06 Batch: WG2469953 Units: mg/kg
Analyzed: 03/16/25 17:56 Sequence: 191

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5374.559	5288.017	5387.048	5448.612
YTTRIUM	360.073	Axial	53205.73	52342.20	53347.87	53927.13
YTTRIUM	360.073	Radial	4328.622	4377.291	4317.667	4290.908
INDIUM	230.606	Axial	1161.879	1141.967	1166.229	1177.441

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	1002.559	16.93770	84.37115	84.41100	85.28331
ANTIMONY	206.833	Axial	0.8120499	-0.003516498	-0.01337396	-0.06250017	0.02312666
ARSENIC	189.042	Axial	1.683755	-0.004780210	-0.02020731	-0.02593614	-0.02555970
BARIUM	233.527	Axial	1516.100	0.2527990	1.258280	1.265880	1.267825
BERYLLIUM	313.042	Radial	18.81196	0.0009062272	0.004078187	0.004944432	0.004570789
BORON	249.678	Radial	5.428681	0.02130646	0.1088377	0.09046090	0.1202983
CADMIUM	228.802	Axial	6.263442	0.003144534	0.01733895	0.01455499	0.01527406
CHROMIUM	267.716	Axial	63.41940	0.02461664	0.1228244	0.1258437	0.1205814
COBALT	228.616	Axial	13.01368	0.01155474	0.04869502	0.06205735	0.06256865
COPPER	324.754	Axial	100.1594	0.01988996	0.1028742	0.09968161	0.09579353
IRON	271.441	Radial	605.8934	28.24306	141.1155	141.0818	141.4485
LEAD	220.353	Axial	25.24333	0.06061374	0.3048142	0.2906667	0.3137251
LITHIUM	670.784	Radial	92.35455	0.03043598	0.1654791	0.1534983	0.1375621
MANGANESE	257.610	Axial	18211.68	0.8185008	4.081792	4.093705	4.102015
MOLYBDENUM	202.030	Axial	0.03131029	0.001772828	0.005306430	0.01042097	0.01086502
NICKEL	231.604	Axial	25.29747	0.02819056	0.1452438	0.1356540	0.1419604
POTASSIUM	766.490	Radial	245.7538	2.807574	13.84853	14.23168	14.03338
SELENIUM	196.090	Axial	-0.3919805	-0.008015162	-0.04205119	-0.04472860	-0.03344763
SILVER	328.068	Axial	-33.5310	-0.001923882	-0.009671447	-0.006931435	-0.01225535
SODIUM	589.592	Radial	112.5489	0.4703712	2.357977	2.374805	2.322786
THALLIUM	190.856	Axial	0.2033437	-0.005241170	0.007653867	-0.07803048	-0.008240949
VANADIUM	292.402	Radial	23.69123	0.03445622	0.1660218	0.1776677	0.1731540
ZINC	206.200	Axial	1149.994	0.4419632	2.187263	2.208673	2.233513
CALCIUM	373.690	Radial	34257.83	331.1262	1646.228	1658.624	1662.040
CERIUM	535.353	Radial	13.84930	0.05452318	0.2330100	0.3685980	0.2162398
LANTHANUM	333.749	Radial	11.18305	0.01822862	0.07856528	0.09384456	0.1010194
MAGNESIUM	279.079	Radial	2162.816	23.83246	118.7085	119.1388	119.6396
PHOSPHORUS	177.495	Axial	160.9999	0.8555774	4.393934	4.252961	4.186766
SILICON	251.611	Axial	5269.291	5.129932	25.64498	25.17257	26.13142
STRONTIUM	421.552	Radial	4477.057	0.4046316	2.026156	2.028230	2.015088
SULFUR	182.034	Axial	324.8819	5.841202	29.86275	29.14756	28.60773
TIN	189.989	Axial	0.9100071	0.001011187	0.006439789	0.006032400	0.002695612
TITANIUM	334.941	Radial	482.2664	0.2780820	1.367623	1.396509	1.407100

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1835560-06 Batch: WG2469953 Units: mg/kg
Analyzed: 03/16/25 17:57 Sequence: 192

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5398.784	5320.051	5492.049	5384.251
YTTRIUM	360.073	Axial	52340.21	51777.72	52930.95	52311.96
YTTRIUM	360.073	Radial	4378.572	4375.072	4370.278	4390.367
INDIUM	230.606	Axial	1045.260	1039.288	1054.721	1041.771

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5237.670	87.31296	87.28000	87.54581	87.11307
ANTIMONY	206.833	Axial	144.0431	1.000426	0.9927715	1.000941	1.007567
ARSENIC	189.042	Axial	213.1102	1.060830	1.056907	1.063872	1.061711
BARIUM	233.527	Axial	12455.68	2.063080	2.057619	2.058444	2.073177
BERYLLIUM	313.042	Radial	17012.38	0.9813704	0.9842962	0.9822166	0.9775983
BORON	249.678	Radial	234.2577	1.055464	1.057428	1.059556	1.049408
CADMIUM	228.802	Axial	2452.139	1.006217	1.000337	1.006247	1.012068
CHROMIUM	267.716	Axial	2600.022	1.074753	1.081272	1.067369	1.075617
COBALT	228.616	Axial	796.8534	1.156722	1.153721	1.148892	1.167554
COPPER	324.754	Axial	4957.135	1.092356	1.081324	1.096471	1.099272
IRON	271.441	Radial	2929.766	135.3456	134.7671	136.4157	134.8540
LEAD	220.353	Axial	500.3040	1.356018	1.340589	1.367973	1.359493
LITHIUM	670.784	Radial	1524.318	1.242448	1.241915	1.245785	1.239642
MANGANESE	257.610	Axial	102355.5	4.579420	4.593896	4.557467	4.586899
MOLYBDENUM	202.030	Axial	870.4213	0.9868054	0.9825749	0.9871283	0.9907130
NICKEL	231.604	Axial	983.1123	1.243176	1.240207	1.243188	1.246132
POTASSIUM	766.490	Radial	2525.661	25.81274	25.66640	25.92380	25.84803
SELENIUM	196.090	Axial	131.4657	1.004382	0.9950829	1.005574	1.012488
SILVER	328.068	Axial	883.5402	0.1986789	0.1997746	0.1983341	0.1979279
SODIUM	589.592	Radial	5038.382	12.91620	12.94627	12.91663	12.88569
THALLIUM	190.856	Axial	128.7600	1.038388	1.003190	1.050428	1.061547
VANADIUM	292.402	Radial	721.8999	1.116184	1.110043	1.125344	1.113164
ZINC	206.200	Axial	6879.741	2.866432	2.857205	2.880938	2.861152
CALCIUM	373.690	Radial	151707.4	1449.653	1448.596	1454.106	1446.257
CERIUM	535.353	Radial	30.44976	0.2349622	0.2124582	0.2587714	0.2336570
LANTHANUM	333.749	Radial	34.57263	0.06029681	0.06138356	0.05818191	0.06132497
MAGNESIUM	279.079	Radial	10307.29	112.2558	112.2547	112.6302	111.8825
PHOSPHORUS	177.495	Axial	905.2086	4.799248	4.776134	4.817195	4.804416
SILICON	251.611	Axial	22964.56	22.75232	22.53291	22.84044	22.88362
STRONTIUM	421.552	Radial	31590.37	2.819988	2.830132	2.817146	2.812686
SULFUR	182.034	Axial	2055.998	37.11416	37.38510	37.08006	36.87732
TIN	189.989	Axial	370.2966	1.098046	1.086431	1.108573	1.099133
TITANIUM	334.941	Radial	3974.540	2.248884	2.238872	2.263779	2.244001

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1835560-06 Batch: WG2469953 Units: mg/kg
Analyzed: 03/16/25 17:59 Sequence: 193

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5415.780	5406.163	5412.835	5428.343
YTTRIUM	360.073	Axial	52446.08	52334.66	52563.02	52440.55
YTTRIUM	360.073	Radial	4330.594	4323.373	4332.652	4335.758
INDIUM	230.606	Axial	1051.876	1049.680	1047.565	1058.383

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5720.331	96.41105	96.41407	96.38816	96.43092
ANTIMONY	206.833	Axial	123.4085	0.8531049	0.8526637	0.8515009	0.8551501
ARSENIC	189.042	Axial	196.0686	0.9718703	0.9708300	0.9775455	0.9672355
BARIUM	233.527	Axial	13088.85	2.161105	2.146174	2.177803	2.159337
BERYLLIUM	313.042	Radial	15448.60	0.9010196	0.9047546	0.9019148	0.8963895
BORON	249.678	Radial	217.8682	0.9922753	0.9882925	0.9990938	0.9894395
CADMIUM	228.802	Axial	2288.713	0.9362710	0.9325423	0.9423214	0.9339492
CHROMIUM	267.716	Axial	2441.939	1.006054	1.001988	1.009198	1.006977
COBALT	228.616	Axial	732.2985	1.055813	1.061233	1.048857	1.057350
COPPER	324.754	Axial	4620.068	1.015941	1.011363	1.016404	1.020054
IRON	271.441	Radial	2498.553	116.6909	116.8624	116.8409	116.3693
LEAD	220.353	Axial	475.1118	1.279688	1.270360	1.300867	1.267836
LITHIUM	670.784	Radial	1415.561	1.163614	1.167807	1.171051	1.151984
MANGANESE	257.610	Axial	97149.75	4.332679	4.305332	4.364162	4.328543
MOLYBDENUM	202.030	Axial	802.3719	0.9069578	0.9029141	0.9094268	0.9085324
NICKEL	231.604	Axial	918.2718	1.153843	1.151467	1.157041	1.153019
POTASSIUM	766.490	Radial	2689.839	27.77243	27.68711	27.77466	27.85553
SELENIUM	196.090	Axial	119.6586	0.9108865	0.9107991	0.9110037	0.9108567
SILVER	328.068	Axial	815.9480	0.1835175	0.1823765	0.1849926	0.1831835
SODIUM	589.592	Radial	4692.244	12.17270	12.12367	12.17244	12.22199
THALLIUM	190.856	Axial	117.7216	0.9428284	0.9445970	0.9352478	0.9486403
VANADIUM	292.402	Radial	672.2098	1.050710	1.055938	1.049259	1.046932
ZINC	206.200	Axial	9075.024	3.784274	3.806024	3.744288	3.802510
CALCIUM	373.690	Radial	150097.4	1450.157	1454.388	1450.386	1445.697
CERIUM	535.353	Radial	27.83462	0.2096716	0.2466931	0.2176511	0.1646707
LANTHANUM	333.749	Radial	37.49293	0.06633064	0.06220091	0.06834736	0.06844366
MAGNESIUM	279.079	Radial	11516.83	126.8170	126.7917	126.9412	126.7180
PHOSPHORUS	177.495	Axial	934.6028	4.939861	4.973283	4.922271	4.924030
SILICON	251.611	Axial	26061.92	25.77166	26.03513	25.33487	25.94498
STRONTIUM	421.552	Radial	30025.86	2.710060	2.735416	2.717589	2.677174
SULFUR	182.034	Axial	1231.805	22.14084	21.97548	22.04591	22.40113
TIN	189.989	Axial	345.5766	1.018258	1.014958	1.025265	1.014552
TITANIUM	334.941	Radial	4030.404	2.305699	2.317194	2.303400	2.296503

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1835560-06 Batch: WG2469953 Units: mg/kg
Analyzed: 03/16/25 18:01 Sequence: 194

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5387.359	5393.203	5385.505	5383.370
YTTRIUM	360.073	Axial	51970.80	51779.06	52415.96	51717.39
YTTRIUM	360.073	Radial	4380.214	4366.211	4366.590	4407.840
INDIUM	230.606	Axial	1041.025	1040.880	1044.164	1038.032

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	6032.379	100.5182	101.0258	100.3986	100.1302
ANTIMONY	206.833	Axial	120.5314	0.8374548	0.8236298	0.8393014	0.8494333
ARSENIC	189.042	Axial	198.1365	0.9875047	0.9963601	0.9777523	0.9884018
BARIUM	233.527	Axial	12718.91	2.111131	2.098707	2.109318	2.125367
BERYLLIUM	313.042	Radial	15884.50	0.9159533	0.9209789	0.9126593	0.9142216
BORON	249.678	Radial	222.0112	0.9997285	1.007019	0.9956106	0.9965559
CADMIUM	228.802	Axial	2292.756	0.9428741	0.9312257	0.9502277	0.9471688
CHROMIUM	267.716	Axial	2475.927	1.025478	1.019588	1.027216	1.029629
COBALT	228.616	Axial	742.9593	1.082522	1.088638	1.066788	1.092138
COPPER	324.754	Axial	4669.384	1.036238	1.034674	1.031383	1.042657
IRON	271.441	Radial	2771.048	127.9613	128.5750	127.8652	127.4436
LEAD	220.353	Axial	502.9873	1.368906	1.349766	1.378913	1.378038
LITHIUM	670.784	Radial	1439.537	1.170184	1.171133	1.171756	1.167662
MANGANESE	257.610	Axial	94464.57	4.235176	4.203586	4.259364	4.242579
MOLYBDENUM	202.030	Axial	808.5262	0.9187214	0.9102563	0.9187676	0.9271401
NICKEL	231.604	Axial	920.1710	1.168291	1.169584	1.163672	1.171618
POTASSIUM	766.490	Radial	2757.325	28.14294	28.13455	28.19012	28.10414
SELENIUM	196.090	Axial	121.6362	0.9309381	0.9240018	0.9343709	0.9344418
SILVER	328.068	Axial	824.0394	0.1869390	0.1862237	0.1856224	0.1889710
SODIUM	589.592	Radial	4886.654	12.52819	12.57826	12.51642	12.48990
THALLIUM	190.856	Axial	118.1966	0.9566446	0.9708469	0.9366730	0.9624139
VANADIUM	292.402	Radial	709.2993	1.096255	1.103566	1.095203	1.089997
ZINC	206.200	Axial	7454.661	3.116769	3.101722	3.115569	3.133015
CALCIUM	373.690	Radial	142035.3	1356.729	1360.638	1357.154	1352.396
CERIUM	535.353	Radial	26.47910	0.1911825	0.1821601	0.1744215	0.2169660
LANTHANUM	333.749	Radial	40.34291	0.07071868	0.07048647	0.07316770	0.06850188
MAGNESIUM	279.079	Radial	10958.77	119.3071	119.9556	119.2081	118.7575
PHOSPHORUS	177.495	Axial	958.2001	5.091329	5.151669	4.984874	5.137445
SILICON	251.611	Axial	25554.01	25.50084	25.50977	25.29128	25.70148
STRONTIUM	421.552	Radial	30270.23	2.701141	2.692914	2.709420	2.701088
SULFUR	182.034	Axial	1271.424	22.97597	23.31514	22.66266	22.95012
TIN	189.989	Axial	348.2910	1.036977	1.044858	1.026446	1.039627
TITANIUM	334.941	Radial	4077.903	2.306437	2.310175	2.303524	2.305610

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1834834-01 DF: 1x Batch: WG2469953 Units: mg/kg
Analyzed: 03/16/25 18:02 Sequence: 195

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5452.458	5477.178	5460.247	5419.948
YTTRIUM	360.073	Axial	54562.34	54586.78	54414.57	54685.68
YTTRIUM	360.073	Radial	4443.294	4431.778	4457.489	4440.615
INDIUM	230.606	Axial	1063.576	1060.303	1066.595	1063.829

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ANTIMONY	206.833	Axial	0.2080258	-0.007749027	-0.005976543	-0.01654208	-0.0007284597
ARSENIC	189.042	Axial	17.16122	0.07235180	0.07172474	0.06765111	0.07767954
BARIUM	233.527	Axial	16417.41	2.692344	2.692720	2.673683	2.710631
BERYLLIUM	313.042	Radial	96.00315	0.005266506	0.005477961	0.005185745	0.005135812
CADMIUM	228.802	Axial	0.1230018	0.0006092663	0.001932519	-0.0002437256	0.0001390049
CHROMIUM	267.716	Axial	1434.140	0.5861668	0.5815811	0.5838118	0.5931076
COBALT	228.616	Axial	132.3243	0.1841596	0.1814913	0.1865133	0.1844741
COPPER	324.754	Axial	2242.207	0.4729398	0.4693559	0.4760573	0.4734063
LEAD	220.353	Axial	39.87276	0.1053137	0.1068753	0.1032835	0.1057822
MOLYBDENUM	202.030	Axial	-1.20769	0.0003898309	-0.00006219534	0.001019709	0.0002119794
NICKEL	231.604	Axial	676.6304	0.8406831	0.8375435	0.8452355	0.8392704
SELENIUM	196.090	Axial	-0.3595116	-0.007734852	-0.004294831	-0.005631295	-0.01327843
SILVER	328.068	Axial	30.39368	0.01167486	0.01229538	0.01129007	0.01143913
THALLIUM	190.856	Axial	-3.71416	-0.03639269	-0.03625673	-0.03633267	-0.03658868
VANADIUM	292.402	Radial	560.1722	0.8528773	0.8582711	0.8495212	0.8508395
ZINC	206.200	Axial	1623.661	0.6336648	0.6249173	0.6438063	0.6322707
ALUMINUM	308.215	Radial	16586.41	272.3904	273.7850	270.6046	272.7815
BORON	249.678	Radial	26.24517	0.1134058	0.1194216	0.1070992	0.1136965
CALCIUM	373.690	Radial	7267.920	68.41904	68.67309	68.39977	68.18428
CERIUM	535.353	Radial	31.14624	0.2376009	0.2468541	0.2550460	0.2109026
IRON	271.441	Radial	7534.306	343.1254	342.9934	342.0350	344.3479
LANTHANUM	333.749	Radial	22.43408	0.03774041	0.03724782	0.04109884	0.03487457
LITHIUM	670.784	Radial	458.0196	0.3336299	0.3365693	0.3302085	0.3341118
MAGNESIUM	279.079	Radial	10059.13	107.9584	108.5647	107.2381	108.0724
MANGANESE	257.610	Axial	345934.1	15.32437	15.27873	15.20770	15.48668
PHOSPHORUS	177.495	Axial	519.3004	2.725247	2.676083	2.751958	2.747700
POTASSIUM	766.490	Radial	1930.056	19.51128	19.51158	19.52318	19.49908
SILICON	251.611	Axial	13484.54	12.81355	12.67526	13.04579	12.71961
SODIUM	589.592	Radial	1496.993	3.910946	3.926152	3.883581	3.923104
STRONTIUM	421.552	Radial	5881.235	0.5177151	0.5227467	0.5148170	0.5155817
SULFUR	182.034	Axial	112.6467	1.956159	1.942803	1.952242	1.973432
TIN	189.989	Axial	6.025505	0.01616190	0.01778289	0.01637352	0.01432927
TITANIUM	334.941	Radial	14169.47	7.894895	7.944730	7.819859	7.920095

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/16/25 18:07 Sequence: 198 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4999.977	4984.551	4987.300	5028.079
YTTRIUM	360.073	Axial	50583.95	50206.25	50589.91	50955.70
YTTRIUM	360.073	Radial	4154.397	4168.433	4129.263	4165.493
INDIUM	230.606	Axial	1128.676	1124.566	1128.605	1132.856

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	515.4141	9.090487	9.139581	9.026201	9.105679
ANTIMONY	206.833	Axial	67.41754	0.5010509	0.5049738	0.4985030	0.4996760
ARSENIC	189.042	Axial	186.9606	1.004244	1.005100	1.010357	0.9972739
BARIUM	233.527	Axial	2632.747	0.4713450	0.4704296	0.4724732	0.4711323
BERYLLIUM	313.042	Radial	3046.027	0.1850348	0.1857941	0.1843155	0.1849946
BORON	249.678	Radial	196.4110	0.9322944	0.9296871	0.9375456	0.9296504
CADMIUM	228.802	Axial	1106.804	0.4906876	0.4868643	0.4925437	0.4926549
CALCIUM	317.933	Radial	10568.66	46.65895	46.69857	46.48114	46.79715
CHROMIUM	267.716	Axial	2083.180	0.9294844	0.9241264	0.9329422	0.9313845
COBALT	228.616	Axial	687.5640	0.9231738	0.9177891	0.9265197	0.9252125
COPPER	324.754	Axial	4326.377	0.9863102	0.9817718	0.9874909	0.9896678
IRON	259.940	Radial	2328.484	9.423937	9.481263	9.320079	9.470469
LEAD	220.353	Axial	191.7854	0.4807828	0.4780661	0.4845414	0.4797410
LITHIUM	670.784	Radial	1064.654	0.9017484	0.9069030	0.8972141	0.9011279
MAGNESIUM	279.079	Radial	821.8302	9.439331	9.462448	9.437086	9.418457
MANGANESE	257.610	Axial	19069.54	0.9212734	0.9168401	0.9259155	0.9210646
MOLYBDENUM	202.030	Axial	195.2924	0.2403897	0.2391063	0.2416579	0.2404049
NICKEL	231.604	Axial	793.2929	0.9288471	0.9265398	0.9282458	0.9317559
PHOSPHORUS	177.495	Axial	177.7783	1.015737	1.005354	1.023416	1.018441
POTASSIUM	766.490	Radial	4542.300	48.66344	48.48057	48.71157	48.79818
SELENIUM	196.090	Axial	121.7519	1.004403	1.000722	1.007443	1.005044
SILICON	251.611	Axial	1888.412	1.929316	1.917023	1.935698	1.935227
SILVER	328.068	Axial	2088.152	0.4781920	0.4767691	0.4800114	0.4777953
SODIUM	818.326	Radial	364.8684	43.19507	43.51945	43.24073	42.82503
STRONTIUM	421.552	Radial	9962.027	0.9375478	0.9363114	0.9340548	0.9422773
SULFUR	182.034	Axial	254.6588	4.911012	4.901954	4.907071	4.924010
THALLIUM	190.856	Axial	127.8345	0.9542567	0.9530127	0.9542943	0.9554629
TIN	189.989	Axial	176.4535	0.4838060	0.4879864	0.4821752	0.4812564
TITANIUM	334.941	Radial	1561.822	0.9327425	0.9397355	0.9304514	0.9280405
VANADIUM	292.402	Radial	566.8083	0.9231872	0.9267279	0.9171370	0.9256967
ZINC	206.200	Axial	2210.835	0.9637987	0.9528308	0.9735687	0.9649966
CERIUM	535.353	Radial	9.652516	0.01241069	0.01274676	0.01218597	0.01229934
LANTHANUM	333.749	Radial	-6.92089	-0.01546320	-0.01340232	-0.01912310	-0.01386417

Sample ID: CCB Units: mg/l
Analyzed: 03/16/25 18:09 Sequence: 199

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5010.017	4998.217	5052.901	4978.932
YTTRIUM	360.073	Axial	51664.15	51602.11	51867.25	51523.10
YTTRIUM	360.073	Radial	4248.739	4289.545	4235.544	4221.127
INDIUM	230.606	Axial	1194.300	1200.004	1190.972	1191.923

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.39876	-0.03647843	-0.03032679	-0.04124003	-0.03786847
ANTIMONY	206.833	Axial	1.037489	-0.001341358	-0.0002537933	-0.007791801	0.004021521
ARSENIC	189.042	Axial	0.8646669	-0.008600319	-0.01074998	-0.01095445	-0.004096523
BARIUM	233.527	Axial	-6.98198	-0.0006070424	-0.0006170364	-0.0004932593	-0.0007108313
BERYLLIUM	313.042	Radial	4.353281	0.00006656443	0.00008931631	0.0001026754	0.000007701547
BORON	249.678	Radial	1.252258	0.002316026	0.001442914	0.003711808	0.001793357
CADMIUM	228.802	Axial	-1.52799	-0.0001111320	0.0001781033	-0.0006574346	0.0001459355
CALCIUM	317.933	Radial	25.96482	0.02809879	0.02839224	0.03460320	0.02130093
CERIUM	535.353	Radial	6.815254	-0.02214100	-0.02324436	-0.03319901	-0.009979617
CHROMIUM	267.716	Axial	7.313594	0.001503064	0.002568736	0.001262297	0.0006781578
COBALT	228.616	Axial	5.761886	0.001848458	0.002561430	0.001300055	0.001683890
COPPER	324.754	Axial	2.771183	-0.001248811	-0.001897850	-0.0005443619	-0.001304223
IRON	259.940	Radial	2.708781	0.006146158	0.004373757	0.007259568	0.006805149
LANTHANUM	333.749	Radial	-0.6347034	-0.003444102	-0.002029911	-0.004501153	-0.003801242
LEAD	220.353	Axial	-1.40020	-0.004306754	-0.003990382	-0.007790105	-0.001139774
LITHIUM	670.784	Radial	71.98414	0.01416080	0.01371751	0.01617325	0.01259165
MAGNESIUM	279.079	Radial	-1.57835	-0.01115806	-0.02558301	-0.01797583	0.01008466
MANGANESE	257.610	Axial	-6.18930	-0.0001911651	0.00003356702	-0.0002352867	-0.0003717755
MOLYBDENUM	202.030	Axial	-3.02495	-0.001943385	-0.002004337	-0.002449166	-0.001376651
NICKEL	231.604	Axial	-0.5113289	-0.001176005	-0.0002665688	-0.002221988	-0.001039458
PHOSPHORUS	177.495	Axial	1.178529	0.004150907	0.003376975	0.007450314	0.001625433
POTASSIUM	766.490	Radial	-20.5874	0.08139636	0.1026198	0.1050697	0.03649957
SELENIUM	196.090	Axial	-0.5948001	-0.009885335	-0.01263036	-0.01332167	-0.003703979
SILICON	251.611	Axial	7.463331	0.0002252813	-0.0001776769	0.0004170380	0.0004364829
SILVER	328.068	Axial	-24.9220	-0.0002337263	-0.001655924	0.0007537868	0.0002009580
SODIUM	589.592	Radial	-51.9152	0.04740445	0.05272764	0.05966080	0.02982492
STRONTIUM	421.552	Radial	5.766537	0.0009656406	0.0007579108	0.001029982	0.001109029
SULFUR	182.034	Axial	4.479311	0.02676358	0.02845423	0.01715212	0.03468440
THALLIUM	190.856	Axial	1.486636	0.003805364	0.002102645	0.008631536	0.0006819113
TIN	189.989	Axial	0.6418804	0.0002374590	0.003362233	-0.001464399	-0.001185456
TITANIUM	334.941	Radial	-2.21569	0.001025708	0.0006560126	0.0003162210	0.002104892
VANADIUM	292.402	Radial	-0.06509845	-0.002808406	-0.0002582914	-0.004395593	-0.003771333
ZINC	206.200	Axial	117.6904	0.006465679	0.006210593	0.006318357	0.006868089

Sample ID: ICSA Units: mg/l
Analyzed: 03/16/25 21:43 Sequence: 325 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4821.770	4724.927	4857.338	4883.046
YTTRIUM	360.073	Axial	47770.52	47411.87	47869.35	48030.33
YTTRIUM	360.073	Radial	4068.606	4093.612	4049.005	4063.202
INDIUM	230.606	Axial	973.9368	954.5205	981.1183	986.1717

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	27948.34	501.2117	501.0413	500.6336	501.9601
ANTIMONY	206.833	Axial	-0.6953898	-0.01457796	-0.006252089	-0.01629511	-0.02118668
ARSENIC	189.042	Axial	-1.03512	-0.01924786	-0.02799194	-0.01881031	-0.01094134
BARIUM	233.527	Axial	7.710842	0.002068761	0.002093710	0.001857141	0.002255433
BERYLLIUM	313.042	Radial	3.455258	0.00002265911	-0.00001365145	0.0001443071	-0.00006267831
BORON	249.678	Radial	-7.95673	-0.04220688	-0.04952849	-0.03783755	-0.03925461
CADMIUM	228.802	Axial	-1.32873	-0.00005667118	-0.0008964941	0.0004051338	0.0003213468
CALCIUM	373.690	Radial	48789.27	501.7167	500.6189	502.0717	502.4594
CERIUM	535.353	Radial	15.81203	0.08755091	0.06406058	0.06466136	0.1339308
CHROMIUM	267.716	Axial	5.452823	0.0007670200	0.0005031488	0.001803527	-0.000005616056
COBALT	228.616	Axial	8.568726	0.007931890	0.01066976	0.004683375	0.008442539
COPPER	324.754	Axial	-10.6918	-0.004458539	-0.005512450	-0.005072633	-0.002790535
IRON	271.441	Radial	4059.276	201.8563	201.3893	202.8161	201.3635
LANTHANUM	333.749	Radial	-3.99112	-0.01002076	-0.01165555	-0.009355082	-0.009051652
LEAD	220.353	Axial	1.195842	0.002566967	0.009505760	-0.002265179	0.0004603200
LITHIUM	670.784	Radial	72.31500	0.01723962	0.01874663	0.01651287	0.01645937
MAGNESIUM	279.079	Radial	43385.42	508.4802	508.8557	509.8538	506.7310
MANGANESE	257.610	Axial	-156.784	-0.007743538	-0.007456170	-0.008010970	-0.007763473
MOLYBDENUM	202.030	Axial	-4.00432	-0.003346823	-0.004946714	-0.002414223	-0.002679531
NICKEL	231.604	Axial	-0.6649901	-0.001509779	-0.001493106	-0.001243183	-0.001793049
PHOSPHORUS	177.495	Axial	1.796495	0.008122355	0.009771742	0.01071529	0.003880029
POTASSIUM	766.490	Radial	-20.3036	0.07536815	0.01436365	0.1471008	0.06464002
SELENIUM	196.090	Axial	-0.9671730	-0.01329058	-0.01431614	-0.002148066	-0.02340754
SILICON	251.611	Axial	-7.39810	-0.01530367	-0.01501950	-0.01769693	-0.01319459
SILVER	328.068	Axial	8.877997	0.007421485	0.006888046	0.008301810	0.007074599
SODIUM	589.592	Radial	29.56217	0.2630037	0.2837815	0.2537952	0.2514344
STRONTIUM	421.552	Radial	71.13658	0.007266457	0.007362591	0.006938893	0.007497887
SULFUR	182.034	Axial	5.017502	0.04107182	0.04676307	0.03475054	0.04170185
THALLIUM	190.856	Axial	-0.3708810	-0.01006578	-0.01714126	-0.007891471	-0.005164614
TIN	189.989	Axial	-0.7131589	-0.003697834	-0.004021488	-0.002854281	-0.004217731
TITANIUM	334.941	Radial	-8.07600	-0.002599849	-0.002141322	-0.002308955	-0.003349269
VANADIUM	292.402	Radial	1.193493	-0.0007016194	-0.0004964568	-0.00009157309	-0.001516828
ZINC	206.200	Axial	170.8168	0.03376668	0.03496795	0.03282715	0.03350496

Sample ID: ICSAB Units: mg/l
Analyzed: 03/16/25 21:45 Sequence: 326 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4878.894	4876.495	4887.538	4872.648
YTTRIUM	360.073	Axial	48308.78	48419.40	48225.46	48281.47
YTTRIUM	360.073	Radial	4071.782	4071.599	4064.142	4079.606
INDIUM	230.606	Axial	982.7230	983.7711	982.5086	981.8892

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	27952.94	500.9027	501.0559	500.3551	501.2972
ANTIMONY	206.833	Axial	66.73190	0.5083812	0.4983671	0.5213008	0.5054757
ARSENIC	189.042	Axial	90.25769	0.4901034	0.4869028	0.4960774	0.4873301
BARIUM	233.527	Axial	2636.276	0.4836743	0.4855636	0.4817923	0.4836672
BERYLLIUM	313.042	Radial	7803.157	0.4839460	0.4861242	0.4828064	0.4829074
BORON	249.678	Radial	196.6608	0.9524801	0.9516908	0.9530524	0.9526972
CADMIUM	228.802	Axial	2243.701	1.018812	1.018099	1.017782	1.020554
CALCIUM	373.690	Radial	48765.86	501.0822	503.5393	500.3080	499.3994
CERIUM	535.353	Radial	15.33089	0.08165907	0.09485810	0.04663432	0.1034848
CHROMIUM	267.716	Axial	1058.090	0.4829781	0.4833327	0.4851916	0.4804099
COBALT	228.616	Axial	338.4677	0.5195580	0.5181121	0.5268833	0.5136787
COPPER	324.754	Axial	2117.863	0.5046622	0.5035153	0.5046720	0.5057993
IRON	271.441	Radial	4066.458	202.0535	202.7191	201.7013	201.7400
LANTHANUM	333.749	Radial	-5.14998	-0.01227489	-0.01453639	-0.01158368	-0.01070461
LEAD	220.353	Axial	371.4492	1.070681	1.070034	1.072439	1.069571
LITHIUM	670.784	Radial	76.47094	0.02097579	0.01845833	0.02040414	0.02406490
MAGNESIUM	279.079	Radial	43544.43	509.9429	512.8836	506.6779	510.2671
MANGANESE	257.610	Axial	9694.460	0.4800275	0.4809064	0.4787644	0.4804117
MOLYBDENUM	202.030	Axial	382.0191	0.4801526	0.4801245	0.4827282	0.4776052
NICKEL	231.604	Axial	786.3723	1.057583	1.053433	1.068494	1.050823
PHOSPHORUS	177.495	Axial	2.021059	0.009291482	0.01559473	0.009169826	0.003109887
POTASSIUM	766.490	Radial	-22.9295	0.04678033	0.02819422	0.05889262	0.05325414
SELENIUM	196.090	Axial	57.70484	0.4852889	0.4939403	0.4874130	0.4745134
SILICON	251.611	Axial	851.6476	0.9072627	0.9053682	0.9125193	0.9039004
SILVER	328.068	Axial	3835.914	0.9149162	0.9233673	0.9230106	0.8983708
SODIUM	589.592	Radial	30.74935	0.2662527	0.2497937	0.2927849	0.2561793
STRONTIUM	421.552	Radial	70.69785	0.007219790	0.007511548	0.007187632	0.006960191
SULFUR	182.034	Axial	6.048565	0.06044169	0.04674832	0.08215148	0.05242527
THALLIUM	190.856	Axial	53.78859	0.4576597	0.4580127	0.4608527	0.4541137
TIN	189.989	Axial	165.1322	0.5201057	0.5188890	0.5268804	0.5145478
TITANIUM	334.941	Radial	784.8644	0.4793704	0.4780598	0.4769764	0.4830751
VANADIUM	292.402	Radial	285.4807	0.4731138	0.4723583	0.4761403	0.4708427
ZINC	206.200	Axial	2152.751	0.9616701	0.9554373	0.9670349	0.9625381

Sample ID: CALBLK Units: mg/l
Analyzed: 03/17/25 05:31 Sequence: 2 Standard ID: 25C17417

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4416.752	4407.984	4422.504	4419.767
YTTRIUM	360.073	Axial	47109.94	46825.93	47174.94	47328.95
YTTRIUM	360.073	Radial	4318.192	4319.253	4334.939	4300.382
INDIUM	230.606	Axial	1065.202	1062.008	1065.052	1068.546

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	-5.51437	-6.677198	-5.718820	-4.147102
ANTIMONY	206.833	Axial	0.1644945	-1.997449	1.133374	1.357558
ARSENIC	189.042	Axial	1.376047	0.4208441	1.881449	1.825849
BARIUM	233.527	Axial	-7.30962	-8.091441	-6.843372	-6.994059
BERYLLIUM	313.042	Radial	4.473396	5.611612	5.658846	2.149729
BORON	249.678	Radial	-0.5082295	-2.180583	-0.4285406	1.084435
CADMIUM	228.802	Axial	2.669886	3.203594	2.612339	2.193726
CALCIUM	317.933	Radial	18.18788	19.99365	15.92926	18.64074
CALCIUM	373.690	Radial	-2.05057	-3.657024	-3.960301	1.465588
CERIUM	535.353	Radial	13.53322	10.07020	13.53977	16.98969
CHROMIUM	267.716	Axial	7.869894	10.47362	4.794021	8.342044
COBALT	228.616	Axial	5.405426	4.217017	6.546089	5.453172
COPPER	324.754	Axial	-2.27570	-4.925791	-2.840380	0.9390673
IRON	259.940	Radial	3.760271	3.921763	4.115791	3.243257
IRON	271.441	Radial	0.9626185	0.7636031	0.9560742	1.168178
LANTHANUM	333.749	Radial	-0.7159153	-1.678131	-0.2040604	-0.2655544
LEAD	220.353	Axial	0.2801466	-0.8105340	1.177502	0.4734718
LITHIUM	670.784	Radial	-12.2526	-9.896865	-13.43242	-13.42869
MAGNESIUM	279.079	Radial	-2.79166	-2.337037	-2.803551	-3.234402
MANGANESE	257.610	Axial	-15.0056	-17.79291	-14.44256	-12.78159
MOLYBDENUM	202.030	Axial	0.04317322	-0.01217761	0.06180013	0.07989713
NICKEL	231.604	Axial	-2.28248	-1.754105	-3.231697	-1.861652
PHOSPHORUS	177.495	Axial	1.686707	1.901701	0.7892794	2.369140
POTASSIUM	766.490	Radial	-33.2179	-30.52925	-36.66979	-32.45469
SELENIUM	196.090	Axial	0.4867249	0.6952819	0.4522041	0.3126887
SILICON	251.611	Axial	4.298707	4.804253	1.620796	6.471072
SILVER	328.068	Axial	-19.5784	-18.73692	-22.77490	-17.22347
SODIUM	589.592	Radial	-62.0356	-61.36806	-60.53506	-64.20371
SODIUM	818.326	Radial	-13.2005	-11.99179	-15.00391	-12.60598
STRONTIUM	421.552	Radial	3.680263	6.919948	1.572402	2.548439
SULFUR	182.034	Axial	4.195224	4.322487	3.804104	4.459082
THALLIUM	190.856	Axial	0.5800692	0.2016700	0.2100798	1.328458
TIN	189.989	Axial	-0.8213930	-1.757995	0.08146649	-0.7876509
TITANIUM	334.941	Radial	-2.77447	-1.893117	-4.211235	-2.219059
VANADIUM	292.402	Radial	-2.64069	-3.644727	-2.109329	-2.168034
ZINC	206.200	Axial	119.9733	119.5200	120.0810	120.3188

Sample ID: STD1 Units: mg/l
Analyzed: 03/17/25 05:33 Sequence: 3 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4324.972	4322.827	4321.664	4330.424
YTTRIUM	360.073	Axial	46404.90	46397.26	46313.32	46504.13
YTTRIUM	360.073	Radial	4224.101	4232.101	4190.411	4249.790
INDIUM	230.606	Axial	1033.547	1030.948	1031.061	1038.633

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	5.599815	1.837626	8.215999	6.745820
ANTIMONY	206.833	Axial	1.551975	1.400145	2.408603	0.8471781
ARSENIC	189.042	Axial	3.011735	2.595924	2.911835	3.527446
BARIUM	233.527	Axial	19.41884	19.77154	19.85012	18.63487
BERYLLIUM	313.042	Radial	36.03556	36.99839	35.52645	35.58184
BORON	249.678	Radial	42.59573	41.42963	42.40460	43.95296
CADMIUM	228.802	Axial	6.420300	6.176791	6.361995	6.722114
CALCIUM	317.933	Radial	246.8415	246.8315	245.3028	248.3901
CHROMIUM	267.716	Axial	27.36898	27.31510	27.77811	27.01372
COBALT	228.616	Axial	13.63991	12.19636	16.40616	12.31722
COPPER	324.754	Axial	45.25492	43.07495	47.72194	44.96788
IRON	259.940	Radial	26.33739	25.61992	26.73796	26.65430
LEAD	220.353	Axial	2.449226	0.8535769	3.308665	3.185435
LITHIUM	670.784	Radial	2.466514	1.665522	6.281925	-0.5479071
MAGNESIUM	279.079	Radial	86.48017	85.25492	87.04314	87.14246
MANGANESE	257.610	Axial	158.7872	159.3947	157.0290	159.9378
MOLYBDENUM	202.030	Axial	1.894421	1.697409	2.308977	1.676877
NICKEL	231.604	Axial	6.523501	6.155316	6.757920	6.657268
PHOSPHORUS	177.495	Axial	20.54731	20.34927	21.69413	19.59854
POTASSIUM	766.490	Radial	73.37135	74.60556	75.52906	69.97944
SELENIUM	196.090	Axial	1.914006	1.260869	1.782351	2.698798
SILICON	251.611	Axial	194.2719	191.8827	194.4395	196.4937
SILVER	328.068	Axial	-0.1464490	-8.446320	3.961421	4.045552
SODIUM	589.592	Radial	325.8220	322.3277	316.4117	338.7266
STRONTIUM	421.552	Radial	111.4345	105.0388	116.4144	112.8502
SULFUR	182.034	Axial	59.80078	58.58422	61.56484	59.25327
THALLIUM	190.856	Axial	1.864273	1.907434	2.588196	1.097189
TIN	189.989	Axial	17.38241	17.14896	18.01792	16.98035
TITANIUM	334.941	Radial	80.65883	82.93643	78.55175	80.48832
VANADIUM	292.402	Radial	11.83996	11.33806	10.72408	13.45775
ZINC	206.200	Axial	228.0314	228.4322	228.4163	227.2457

Sample ID: STD2 Units: mg/l
Analyzed: 03/17/25 05:34 Sequence: 4 Standard ID: 25C17419

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4626.505	4625.362	4596.057	4658.096
YTTRIUM	360.073	Axial	49397.62	49441.83	49375.04	49375.99
YTTRIUM	360.073	Radial	4274.238	4296.208	4284.209	4242.298
INDIUM	230.606	Axial	1108.878	1105.914	1112.148	1108.571

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	108.3338	111.9185	109.5976	103.4853
ANTIMONY	206.833	Axial	14.33046	14.75824	14.88583	13.34732
ARSENIC	189.042	Axial	40.28508	40.66318	39.97920	40.21286
BARIUM	233.527	Axial	529.5158	528.2605	526.3697	533.9172
BERYLLIUM	313.042	Radial	657.9291	663.1522	657.0188	653.6163
CADMIUM	228.802	Axial	182.8337	183.2355	181.7081	183.5574
CALCIUM	317.933	Radial	2313.001	2336.875	2320.335	2281.792
CHROMIUM	267.716	Axial	425.7990	425.2737	424.7742	427.3490
COBALT	228.616	Axial	184.0375	184.0048	184.3730	183.7346
COPPER	324.754	Axial	908.8407	905.7060	914.9458	905.8702
IRON	259.940	Radial	508.1520	502.2939	509.4385	512.7237
LEAD	220.353	Axial	44.57978	44.18024	44.36192	45.19719
LITHIUM	670.784	Radial	153.6034	153.8107	152.6163	154.3833
MAGNESIUM	279.079	Radial	177.6785	178.1376	179.2353	175.6626
MANGANESE	257.610	Axial	3825.783	3830.154	3820.701	3826.496
MOLYBDENUM	202.030	Axial	23.03015	22.48396	22.56544	24.04104
NICKEL	231.604	Axial	161.6528	163.7055	161.6672	159.5857
PHOSPHORUS	177.495	Axial	40.15004	41.04137	39.28989	40.11885
POTASSIUM	766.490	Radial	969.8336	975.3624	971.0533	963.0852
SELENIUM	196.090	Axial	27.31036	27.48858	27.19779	27.24471
SILICON	251.611	Axial	406.4204	404.1142	409.8450	405.3021
SILVER	328.068	Axial	433.3036	433.7873	432.4973	433.6260
SODIUM	589.592	Radial	3710.527	3727.992	3734.516	3669.074
STRONTIUM	421.552	Radial	2145.032	2196.149	2152.002	2086.947
THALLIUM	190.856	Axial	35.36732	35.87093	34.66329	35.56773
TIN	189.989	Axial	36.82705	35.40947	38.07162	37.00006
TITANIUM	334.941	Radial	331.4248	335.0849	332.8800	326.3095
VANADIUM	292.402	Radial	122.6215	122.9516	125.0387	119.8743
ZINC	206.200	Axial	573.3936	571.2072	576.0992	572.8744

Sample ID: STD3 Units: mg/l
Analyzed: 03/17/25 05:36 Sequence: 5 Standard ID: 25C17420

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4669.710	4666.335	4663.688	4679.106
YTTRIUM	360.073	Axial	49332.45	49215.22	49248.61	49533.52
YTTRIUM	360.073	Radial	4248.348	4273.573	4241.062	4230.410
INDIUM	230.606	Axial	1105.581	1100.807	1106.032	1109.904

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	219.0094	221.7154	217.3025	218.0103
ANTIMONY	206.833	Axial	29.37418	29.97910	29.93591	28.20754
ARSENIC	189.042	Axial	79.09753	79.47999	79.23169	78.58091
BARIUM	233.527	Axial	1053.687	1044.388	1056.622	1060.049
BERYLLIUM	313.042	Radial	1298.002	1311.210	1292.710	1290.085
BORON	249.678	Radial	84.44023	84.74647	84.41022	84.16399
CADMIUM	228.802	Axial	355.3430	356.6139	353.3805	356.0347
CALCIUM	317.933	Radial	4550.273	4613.656	4537.933	4499.229
CHROMIUM	267.716	Axial	848.7923	840.6703	854.1367	851.5699
COBALT	228.616	Axial	362.9728	364.4687	361.3144	363.1352
COPPER	324.754	Axial	1780.118	1777.729	1782.268	1780.357
IRON	259.940	Radial	996.7040	1004.203	982.0502	1003.859
LEAD	220.353	Axial	88.01378	86.96833	87.82533	89.24768
LITHIUM	670.784	Radial	320.5978	322.7168	325.9398	313.1367
MAGNESIUM	279.079	Radial	351.4480	355.4057	348.9051	350.0331
MANGANESE	257.610	Axial	7623.300	7592.164	7588.680	7689.056
MOLYBDENUM	202.030	Axial	44.10068	44.00081	43.83423	44.46699
NICKEL	231.604	Axial	323.0413	322.3909	322.6516	324.0813
PHOSPHORUS	177.495	Axial	77.98086	78.14974	77.92273	77.87010
POTASSIUM	766.490	Radial	1934.862	1952.761	1928.281	1923.543
SELENIUM	196.090	Axial	53.74953	52.70385	53.34751	55.19723
SILICON	251.611	Axial	784.1348	786.7430	777.9222	787.7393
SILVER	328.068	Axial	874.2635	876.0355	871.8740	874.8808
SODIUM	589.592	Radial	7328.273	7372.152	7268.842	7343.825
SODIUM	818.326	Radial	92.44807	90.28564	92.73658	94.32200
STRONTIUM	421.552	Radial	4237.324	4305.111	4254.275	4152.585
SULFUR	182.034	Axial	113.1507	112.5785	114.4646	112.4090
THALLIUM	190.856	Axial	68.60506	67.77861	68.94786	69.08869
TIN	189.989	Axial	72.20784	72.43362	73.17353	71.01637
TITANIUM	334.941	Radial	662.3586	668.2080	660.9569	657.9108
VANADIUM	292.402	Radial	242.7229	245.5760	239.5661	243.0266
ZINC	206.200	Axial	980.9727	992.3694	970.2150	980.3336

Sample ID: STD4 Units: mg/l
Analyzed: 03/17/25 05:38 Sequence: 6 Standard ID: 25C17421

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4769.199	4766.877	4776.300	4764.419
YTTRIUM	360.073	Axial	50053.29	49886.90	49955.79	50317.19
YTTRIUM	360.073	Radial	4229.692	4220.100	4242.663	4226.312
INDIUM	230.606	Axial	1110.873	1109.777	1109.131	1113.711

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	565.7871	565.1182	565.9824	566.2607
ANTIMONY	206.833	Axial	73.69982	74.10524	74.13729	72.85693
ARSENIC	189.042	Axial	200.6578	199.9981	199.2995	202.6757
BARIUM	233.527	Axial	2790.564	2778.619	2792.858	2800.216
BERYLLIUM	313.042	Radial	3349.259	3341.219	3356.101	3350.456
BORON	249.678	Radial	216.6535	215.5480	216.8421	217.5704
CADMIUM	228.802	Axial	909.2946	901.8611	909.3122	916.7106
CALCIUM	317.933	Radial	11477.60	11429.53	11491.51	11511.75
CALCIUM	373.690	Radial	5220.294	5206.935	5223.905	5230.043
CHROMIUM	267.716	Axial	2218.249	2207.701	2213.464	2233.581
COBALT	228.616	Axial	941.3748	939.3124	938.6115	946.2006
COPPER	324.754	Axial	4574.918	4550.160	4552.229	4622.366
IRON	259.940	Radial	2559.331	2589.398	2532.761	2555.833
IRON	271.441	Radial	217.1104	217.8962	216.3502	217.0850
LEAD	220.353	Axial	223.2040	223.5459	221.7105	224.3557
LITHIUM	670.784	Radial	888.9097	882.3206	892.1174	892.2911
MAGNESIUM	279.079	Radial	902.1022	902.6230	904.9567	898.7268
MANGANESE	257.610	Axial	20199.19	20039.01	20229.05	20329.51
MOLYBDENUM	202.030	Axial	111.1529	110.2850	110.9185	112.2551
NICKEL	231.604	Axial	843.1998	837.5184	845.7020	846.3790
PHOSPHORUS	177.495	Axial	198.6869	197.5204	199.0893	199.4509
POTASSIUM	766.490	Radial	4999.146	4990.341	4987.607	5019.491
SELENIUM	196.090	Axial	138.8910	137.7313	140.0769	138.8649
SILICON	251.611	Axial	2027.980	1986.498	2035.795	2061.646
SILVER	328.068	Axial	2293.151	2268.023	2301.526	2309.905
SODIUM	818.326	Radial	252.5938	255.1860	248.1984	254.3969
STRONTIUM	421.552	Radial	10747.52	10661.69	10822.47	10758.39
SULFUR	182.034	Axial	283.4059	282.5682	283.4262	284.2232
THALLIUM	190.856	Axial	173.3072	172.0325	173.1456	174.7435
TIN	189.989	Axial	186.1017	186.4482	184.0177	187.8393
TITANIUM	334.941	Radial	1713.047	1705.119	1719.632	1714.391
VANADIUM	292.402	Radial	622.3264	621.3108	624.9402	620.7282
ZINC	206.200	Axial	2371.126	2334.391	2393.863	2385.123

Sample ID: STD5 Units: mg/l
Analyzed: 03/17/25 05:39 Sequence: 7 Standard ID: 25C17422

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4786.085	4758.891	4795.511	4803.852
YTTRIUM	360.073	Axial	49894.27	49482.48	50240.97	49959.37
YTTRIUM	360.073	Radial	4207.353	4212.651	4199.839	4209.571
INDIUM	230.606	Axial	1106.049	1099.015	1109.564	1109.568

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1090.393	1092.420	1085.227	1093.531
ANTIMONY	206.833	Axial	140.4656	138.8501	141.7884	140.7582
ARSENIC	189.042	Axial	386.3208	385.4126	389.1014	384.4485
BARIUM	233.527	Axial	5396.704	5330.392	5417.960	5441.760
BERYLLIUM	313.042	Radial	6410.422	6413.493	6402.951	6414.823
BORON	249.678	Radial	415.2164	415.1770	414.2278	416.2444
CADMIUM	228.802	Axial	1736.680	1718.307	1745.480	1746.254
CALCIUM	373.690	Radial	9886.368	9890.885	9893.875	9874.346
CHROMIUM	267.716	Axial	4331.692	4307.781	4323.778	4363.518
COBALT	228.616	Axial	1820.147	1801.283	1824.762	1834.395
COPPER	324.754	Axial	8639.921	8543.962	8710.850	8664.951
IRON	271.441	Radial	415.0777	417.9630	412.6124	414.6576
LEAD	220.353	Axial	421.8555	414.0052	426.5447	425.0164
LITHIUM	670.784	Radial	1802.587	1767.285	1832.370	1808.106
MAGNESIUM	279.079	Radial	1732.676	1735.351	1722.105	1740.571
MANGANESE	257.610	Axial	39098.89	38657.76	39262.14	39376.78
MOLYBDENUM	202.030	Axial	211.0756	209.0210	211.9852	212.2205
NICKEL	231.604	Axial	1633.985	1621.112	1637.458	1643.387
PHOSPHORUS	177.495	Axial	385.0820	384.3840	389.7534	381.1087
POTASSIUM	766.490	Radial	9701.979	9735.422	9675.144	9695.372
SELENIUM	196.090	Axial	264.0122	258.8834	268.5433	264.6101
SILICON	251.611	Axial	3866.077	3793.971	3917.914	3886.347
SILVER	328.068	Axial	4372.631	4296.506	4420.980	4400.407
SODIUM	818.326	Radial	499.7328	524.2439	482.8645	492.0902
STRONTIUM	421.552	Radial	20456.42	20283.51	20619.00	20466.76
SULFUR	182.034	Axial	550.9353	553.9209	548.7424	550.1425
THALLIUM	190.856	Axial	328.1771	324.3734	330.2098	329.9482
TIN	189.989	Axial	357.1566	356.2327	355.2842	359.9528
TITANIUM	334.941	Radial	3279.001	3257.236	3275.025	3304.743
VANADIUM	292.402	Radial	1189.703	1191.366	1186.227	1191.517
ZINC	206.200	Axial	4369.178	4252.373	4454.194	4400.966

Sample ID: STD6 Units: mg/l
Analyzed: 03/17/25 05:41 Sequence: 8 Standard ID: 25C17423

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4768.627	4773.061	4802.198	4730.621
YTTRIUM	360.073	Axial	48897.15	48905.79	49195.79	48589.87
YTTRIUM	360.073	Radial	4199.747	4203.496	4209.466	4186.278
INDIUM	230.606	Axial	1077.618	1077.333	1082.528	1072.993

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	2242.513	2251.872	2254.107	2221.560
ANTIMONY	206.833	Axial	280.9949	279.8583	282.3052	280.8212
ARSENIC	189.042	Axial	782.4235	780.0535	782.9302	784.2869
BARIUM	233.527	Axial	10915.52	10864.18	11007.22	10875.17
BERYLLIUM	313.042	Radial	12974.11	13006.01	12991.19	12925.13
BORON	249.678	Radial	846.5543	850.7477	849.1322	839.7830
CADMIUM	228.802	Axial	3504.329	3485.348	3515.013	3512.626
CALCIUM	373.690	Radial	19903.32	20003.30	19848.04	19858.63
CERIUM	535.353	Radial	897.9970	905.3182	889.8374	898.8354
CHROMIUM	267.716	Axial	8782.567	8781.612	8836.270	8729.819
COBALT	228.616	Axial	3711.626	3685.980	3748.032	3700.867
COPPER	324.754	Axial	17215.68	17137.41	17357.47	17152.14
IRON	271.441	Radial	833.7248	842.1187	830.5813	828.4746
LANTHANUM	333.749	Radial	5258.420	5295.710	5256.846	5222.705
LEAD	220.353	Axial	838.0149	831.6359	846.0311	836.3778
LITHIUM	670.784	Radial	3849.881	3854.402	3822.782	3872.459
MAGNESIUM	279.079	Radial	3517.278	3546.928	3505.535	3499.371
MANGANESE	257.610	Axial	79741.47	79283.15	80393.31	79547.94
MOLYBDENUM	202.030	Axial	425.6653	425.7664	425.9340	425.2957
NICKEL	231.604	Axial	3334.475	3322.327	3361.301	3319.798
PHOSPHORUS	177.495	Axial	773.1482	778.8672	769.2392	771.3383
POTASSIUM	766.490	Radial	19791.04	19802.74	19807.71	19762.65
SELENIUM	196.090	Axial	535.3149	529.6476	537.6522	538.6449
SILICON	251.611	Axial	7731.679	7579.956	7817.194	7797.886
SILVER	328.068	Axial	8819.721	8807.797	8890.873	8760.493
SODIUM	818.326	Radial	1020.825	1039.238	1011.334	1011.904
STRONTIUM	421.552	Radial	41454.04	41169.22	41962.88	41230.04
SULFUR	182.034	Axial	1107.965	1107.216	1107.723	1108.955
THALLIUM	190.856	Axial	637.8616	637.8019	636.5536	639.2292
TIN	189.989	Axial	711.5795	709.1910	718.8690	706.6785
TITANIUM	334.941	Radial	6649.186	6684.805	6616.521	6646.231
VANADIUM	292.402	Radial	2423.407	2433.300	2436.985	2399.934
ZINC	206.200	Axial	8969.151	8857.507	9048.927	9001.018

Sample ID: STD7 Units: mg/l
Analyzed: 03/17/25 05:43 Sequence: 9 Standard ID: 25C09297

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4832.613	4832.832	4811.160	4853.848
YTTRIUM	360.073	Axial	49390.65	49344.17	49447.62	49380.18
YTTRIUM	360.073	Radial	4214.983	4184.658	4247.709	4212.583
INDIUM	230.606	Axial	1005.162	1001.483	1011.456	1002.547

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	28557.00	28363.15	28862.35	28445.49
CALCIUM	373.690	Radial	49297.34	49054.09	49645.56	49192.37
IRON	271.441	Radial	4172.148	4155.159	4214.032	4147.253
MAGNESIUM	279.079	Radial	44030.32	43887.59	44388.56	43814.82
SODIUM	818.326	Radial	2630.969	2601.169	2670.215	2621.524
SULFUR	182.034	Axial	5499.553	5472.625	5511.905	5514.129

Sample ID: ICV Units: mg/l
Analyzed: 03/17/25 05:44 Sequence: 10 Standard ID: 25C17424

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	4738.054	4718.566	4760.710	4752.543	4720.396
YTTRIUM	360.073	Axial	49870.13	49801.96	50004.51	49736.22	49937.81
YTTRIUM	360.073	Radial	4214.107	4230.862	4195.830	4244.489	4185.246
INDIUM	230.606	Axial	1108.164	1107.082	1108.372	1110.060	1107.142

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	557.1331	9.850542	9.846317	9.832411	9.885717	9.837723
ANTIMONY	206.833	Axial	144.5305	1.032767	1.035604	1.021633	1.031660	1.042169
ARSENIC	189.042	Axial	200.2207	1.026874	1.031528	1.035876	1.013357	1.026737
BARIUM	233.527	Axial	5402.924	0.9985948	0.9970923	0.9958670	0.9945775	1.006842
BERYLLIUM	313.042	Radial	16003.42	0.9850738	0.9860969	0.9829089	0.9848961	0.9863933
BORON	249.678	Radial	206.8714	0.9788266	0.9820802	0.9817512	0.9813197	0.9701552
CADMIUM	228.802	Axial	1792.205	1.029184	1.030742	1.022322	1.020434	1.043239
CALCIUM	317.933	Radial	2251.951	9.807505	9.853338	9.756579	9.758687	9.861418
CHROMIUM	267.716	Axial	2135.029	0.9789612	0.9771911	0.9762294	0.9752446	0.9871798
COBALT	228.616	Axial	902.6705	0.9512029	0.9460938	0.9509312	0.9455076	0.9622789
COPPER	324.754	Axial	4524.307	1.032068	1.031057	1.030503	1.026541	1.040172
IRON	259.940	Radial	2537.650	10.00379	9.996022	10.18549	9.866686	9.966972
LEAD	220.353	Axial	436.0408	1.013596	1.010187	1.010745	1.013055	1.020399
LITHIUM	670.784	Radial	810.9626	0.9109842	0.9171478	0.8980574	0.9143745	0.9143570
MAGNESIUM	279.079	Radial	871.6752	9.930842	9.938191	9.916442	9.923226	9.945508
MANGANESE	257.610	Axial	19218.92	0.9746307	0.9731005	0.9724495	0.9669394	0.9860333
MOLYBDENUM	202.030	Axial	446.2545	1.054674	1.060715	1.042741	1.044008	1.071231
NICKEL	231.604	Axial	822.8961	0.9713895	0.9696667	0.9748953	0.9630515	0.9779445
PHOSPHORUS	177.495	Axial	197.0941	1.019974	1.024466	1.027016	1.004003	1.024411
POTASSIUM	766.490	Radial	971.8337	10.13266	10.16733	10.11679	10.11151	10.13500
SELENIUM	196.090	Axial	133.4647	1.002359	0.9951604	1.004693	0.9945939	1.014990
SILICON	251.611	Axial	998.7699	1.011954	0.9957953	1.004197	1.013324	1.034498
SILVER	328.068	Axial	4411.953	0.9870163	0.9826508	0.9840853	0.9927781	0.9885512
SODIUM	589.592	Radial	3725.576	10.29957	10.31797	10.33178	10.24522	10.30332
STRONTIUM	421.552	Radial	4181.799	0.4023532	0.4046172	0.3939997	0.4043228	0.4064733
SULFUR	182.034	Axial	564.6669	10.38914	10.40449	10.50087	10.31600	10.33518
THALLIUM	190.856	Axial	172.6428	1.046773	1.048667	1.046365	1.043453	1.048608
TIN	189.989	Axial	372.4021	1.022036	1.023575	1.031776	1.015312	1.017480
TITANIUM	334.941	Radial	1656.859	0.9963286	0.9988817	0.9919014	0.9995817	0.9949496
VANADIUM	292.402	Radial	599.8690	0.9923711	0.9965310	0.9912964	0.9893454	0.9923116
ZINC	206.200	Axial	2320.133	1.005816	1.008906	0.9958044	0.9947808	1.023774
CERIUM	535.353	Radial	15.44077	0.02516717	-0.01786754	0.07166423	0.03133288	0.01553909
LANTHANUM	333.749	Radial	-6.83143	-0.01163063	-0.007020568	-0.01435845	-0.01212060	-0.01302290

Sample ID: ICB Units: mg/l
Analyzed: 03/17/25 05:50 Sequence: 11

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4349.336	4334.635	4292.133	4421.239
YTTRIUM	360.073	Axial	46425.34	46183.89	46230.53	46861.60
YTTRIUM	360.073	Radial	4272.445	4315.083	4217.926	4284.327
INDIUM	230.606	Axial	1055.857	1048.119	1047.252	1072.200

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.00102	0.02482872	0.02836656	-0.02460959	0.07072919
ANTIMONY	206.833	Axial	0.8544004	0.005369501	0.005426160	0.0009705197	0.009711824
ARSENIC	189.042	Axial	2.051192	0.003906087	0.002213141	0.003275182	0.006229937
BARIUM	233.527	Axial	-7.09233	0.00001961531	-0.00004431767	-0.0001192464	0.0002224100
BERYLLIUM	313.042	Radial	4.530472	0.000006763802	-0.0001088085	-0.00002122614	0.0001503260
BORON	249.678	Radial	0.3635261	0.004031129	-0.001922147	0.002743838	0.01127170
CADMIUM	228.802	Axial	3.282089	0.0004079453	-0.0002669476	0.0007729327	0.0007178508
CALCIUM	317.933	Radial	17.81548	-0.0008363856	0.003274358	-0.007206567	0.001423053
CERIUM	535.353	Radial	14.90567	0.01700554	0.006230101	0.05509278	-0.01030625
CHROMIUM	267.716	Axial	10.77568	0.001525766	0.001964348	0.002221295	0.0003916547
COBALT	228.616	Axial	5.028918	-0.0003682242	-0.0003569272	-0.0007927663	0.00004502093
COPPER	324.754	Axial	-7.35169	-0.001251102	-0.0007815581	-0.002255135	-0.0007166114
IRON	259.940	Radial	2.056072	-0.006468569	-0.007497803	-0.005456476	-0.006451427
LANTHANUM	333.749	Radial	-1.26775	-0.001031613	-0.001772242	0.001341609	-0.002664206
LEAD	220.353	Axial	0.4562349	0.0004382644	0.001479775	-0.0006498432	0.0004848616
LITHIUM	670.784	Radial	-10.5972	0.001671803	0.0009775445	0.002409192	0.001628674
MAGNESIUM	279.079	Radial	-2.42967	0.003684159	0.01443405	-0.0004128830	-0.002968694
MANGANESE	257.610	Axial	-13.2371	0.00008615774	0.0002797248	0.00006116894	-0.00008242052
MOLYBDENUM	202.030	Axial	0.3078567	0.0006808396	-0.000009259159	0.0008918738	0.001159904
NICKEL	231.604	Axial	-1.05651	0.001505753	0.001263763	0.003772628	-0.0005191322
PHOSPHORUS	177.495	Axial	1.606279	-0.0003198859	0.004793866	-0.004419841	-0.001333683
POTASSIUM	766.490	Radial	-22.1610	0.1063352	0.1300851	0.08782837	0.1010922
SELENIUM	196.090	Axial	0.7597176	0.002341215	0.002217742	0.006416693	-0.001610791
SILICON	251.611	Axial	3.200641	-0.001133340	-0.003164705	0.0005752343	-0.0008105500
SILVER	328.068	Axial	-9.93340	0.002240822	0.001838340	0.003045056	0.001839069
SODIUM	589.592	Radial	-41.1877	0.05419566	0.05200212	0.05428634	0.05629850
STRONTIUM	421.552	Radial	2.624694	-0.00009601433	-0.0002131169	-0.00002813104	-0.00004679500
SULFUR	182.034	Axial	3.792585	-0.006842374	-0.01212887	-0.003000681	-0.005397568
THALLIUM	190.856	Axial	-0.1170227	-0.004398577	-0.002204913	-0.004861691	-0.006129128
TIN	189.989	Axial	-1.07664	-0.0007454925	-0.0001450436	-0.0005533585	-0.001538075
TITANIUM	334.941	Radial	-3.16669	-0.0002568775	0.0004273845	-0.001047138	-0.0001508786
VANADIUM	292.402	Radial	1.210835	0.006210574	0.006586231	0.006058065	0.005987427
ZINC	206.200	Axial	120.9702	0.001426259	0.001742846	0.002442016	0.00009391381

Sample ID: ICVLL Units: mg/l
Analyzed: 03/17/25 05:59 Sequence: 14 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4261.083	4199.455	4243.113	4340.682
YTTRIUM	360.073	Axial	45580.88	45142.16	45118.70	46481.80
YTTRIUM	360.073	Radial	4195.734	4179.288	4242.872	4165.041
INDIUM	230.606	Axial	1014.438	1004.931	1007.023	1031.359

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	6.264865	0.2044365	0.2508804	0.1887153	0.1737139
ANTIMONY	206.833	Axial	1.662080	0.01196290	0.008267154	0.01565041	0.01197113
ARSENIC	189.042	Axial	3.008638	0.009668983	0.005205028	0.01687318	0.006928737
BARIUM	233.527	Axial	17.67565	0.005075451	0.004953824	0.005363629	0.004908902
BERYLLIUM	313.042	Radial	35.90323	0.001951595	0.001999921	0.001970461	0.001884402
BORON	249.678	Radial	41.85762	0.2007582	0.1966562	0.2051497	0.2004687
CADMIUM	228.802	Axial	6.131962	0.002270670	0.001995652	0.002230919	0.002585439
CALCIUM	317.933	Radial	247.3681	1.012763	1.025261	0.9991522	1.013876
CHROMIUM	267.716	Axial	29.57160	0.01125240	0.01225738	0.01025433	0.01124548
COBALT	228.616	Axial	14.00823	0.01026739	0.01021248	0.01067696	0.009912739
COPPER	324.754	Axial	42.13716	0.01106403	0.01076122	0.01148258	0.01094828
IRON	259.940	Radial	26.13624	0.08913802	0.08753740	0.09099421	0.08888246
LEAD	220.353	Axial	2.308126	0.005175568	0.001657543	0.007184592	0.006684567
LITHIUM	670.784	Radial	3.318683	0.01688436	0.01151735	0.02487385	0.01426186
MAGNESIUM	279.079	Radial	85.75495	1.009099	1.007070	1.019016	1.001212
MANGANESE	257.610	Axial	157.1293	0.009668450	0.009786685	0.009491785	0.009726880
MOLYBDENUM	202.030	Axial	1.735164	0.004454185	0.005383813	0.003544348	0.004434392
NICKEL	231.604	Axial	5.880594	0.01036152	0.01044244	0.01094105	0.009701079
PHOSPHORUS	177.495	Axial	20.52636	0.1098035	0.1134404	0.1107350	0.1052351
POTASSIUM	766.490	Radial	81.64593	1.154243	1.138475	1.188333	1.135922
SELENIUM	196.090	Axial	1.743152	0.01063927	0.01358423	0.001593033	0.01674056
SILICON	251.611	Axial	191.7497	0.2089248	0.2097709	0.2099277	0.2070757
SILVER	328.068	Axial	2.607821	0.005253756	0.006141698	0.004715904	0.004903667
SODIUM	589.592	Radial	330.9140	1.068900	1.090324	1.054829	1.061547
STRONTIUM	421.552	Radial	115.5241	0.01082611	0.01087147	0.01107927	0.01052760
SULFUR	182.034	Axial	60.33796	1.161045	1.156396	1.191435	1.135304
THALLIUM	190.856	Axial	2.303382	0.01164348	0.005413589	0.01817735	0.01133950
TIN	189.989	Axial	17.88071	0.05583048	0.05695020	0.05517595	0.05536529
TITANIUM	334.941	Radial	81.39208	0.05071166	0.05110505	0.04923879	0.05179112
VANADIUM	292.402	Radial	10.23999	0.02117555	0.02504047	0.02224312	0.01624307
ZINC	206.200	Axial	227.8784	0.05724150	0.05878522	0.05710034	0.05583895
CERIUM	535.353	Radial	13.27666	0.001524667	-0.006960034	-0.01998659	0.03152063
LANTHANUM	333.749	Radial	-1.11523	-0.0007835085	0.0009093939	-0.003554499	0.0002945802

Sample ID: ICSA Units: mg/l
Analyzed: 03/17/25 06:01 Sequence: 15 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4678.369	4701.118	4648.652	4685.337
YTTRIUM	360.073	Axial	47520.22	47527.62	47607.43	47425.62
YTTRIUM	360.073	Radial	4074.079	4064.302	4121.908	4036.028
INDIUM	230.606	Axial	968.0438	965.1420	972.9275	966.0620

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28036.43	507.9395	507.3607	508.0895	508.3682
ANTIMONY	206.833	Axial	0.03033447	-0.001021929	0.001126673	0.001586566	-0.005779026
ARSENIC	189.042	Axial	0.05734912	-0.007323747	-0.005053862	-0.007191489	-0.009725891
BARIUM	233.527	Axial	3.574837	0.002114987	0.002346998	0.002021705	0.001976258
BERYLLIUM	313.042	Radial	3.063424	-0.00007303524	-0.0001691347	-0.00009389445	0.00004392341
BORON	249.678	Radial	-7.03406	-0.03201524	-0.03167416	-0.03192815	-0.03244341
CADMIUM	228.802	Axial	3.135886	0.0001791805	0.0001950816	0.0002474084	0.00009505161
CALCIUM	373.690	Radial	48125.96	503.8431	505.0319	499.7025	506.7951
CERIUM	535.353	Radial	20.84254	0.09399739	0.1129918	0.08953114	0.07946928
CHROMIUM	267.716	Axial	8.343079	-0.000001793727	0.0004468148	-0.001187826	0.0007356300
COBALT	228.616	Axial	7.880429	0.003602234	0.004016940	0.004413455	0.002376308
COPPER	324.754	Axial	-9.50110	-0.001721835	-0.001866130	-0.001489870	-0.001809505
IRON	271.441	Radial	4065.509	201.6069	201.6564	201.8495	201.3147
LANTHANUM	333.749	Radial	-4.80406	-0.008068083	-0.001264974	-0.01380531	-0.009133963
LEAD	220.353	Axial	0.0006245993	-0.0006905332	-0.003221873	0.006286406	-0.005136132
LITHIUM	670.784	Radial	-9.81709	0.002007994	0.001198165	0.0006031280	0.004222688
MAGNESIUM	279.079	Radial	43500.37	511.0575	509.3600	511.7316	512.0808
MANGANESE	257.610	Axial	-166.928	-0.007751766	-0.007423913	-0.008212226	-0.007619159
MOLYBDENUM	202.030	Axial	-0.5154773	-0.001348450	0.0003117247	-0.002633864	-0.001723210
NICKEL	231.604	Axial	-0.3121846	0.002376791	0.002671111	0.001350708	0.003108554
PHOSPHORUS	177.495	Axial	2.251106	0.002437698	0.006205521	-0.002498918	0.003606492
POTASSIUM	766.490	Radial	-22.7006	0.08962172	0.06201263	0.1693786	0.03747391
SELENIUM	196.090	Axial	-0.00009996767	-0.003923936	-0.005135453	0.001347673	-0.007984028
SILICON	251.611	Axial	-9.69552	-0.01498583	-0.01558887	-0.01572693	-0.01364171
SILVER	328.068	Axial	5.268637	0.005846697	0.005804769	0.005532510	0.006202811
SODIUM	589.592	Radial	-38.3569	0.05668188	0.06666985	0.06657663	0.03679916
STRONTIUM	421.552	Radial	71.67216	0.006793096	0.006879306	0.006793306	0.006706677
SULFUR	182.034	Axial	3.417023	-0.01927311	-0.02772875	-0.01690283	-0.01318775
THALLIUM	190.856	Axial	-0.001703802	-0.003684261	-0.007715247	-0.0008072780	-0.002530259
TIN	189.989	Axial	-1.08054	-0.001041403	0.002259239	-0.001895816	-0.003487632
TITANIUM	334.941	Radial	-8.56142	-0.003692463	-0.003216713	-0.003863885	-0.003996793
VANADIUM	292.402	Radial	0.7952656	0.005567498	0.007105827	0.009684458	-0.00008779183
ZINC	206.200	Axial	169.9538	0.01992950	0.01961817	0.02014562	0.02002469

Sample ID: ICSAB Units: mg/l
Analyzed: 03/17/25 06:02 Sequence: 16 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4651.772	4583.310	4639.405	4732.601
YTTRIUM	360.073	Axial	46958.03	46493.95	47295.56	47084.56
YTTRIUM	360.073	Radial	4049.358	4077.979	4062.117	4007.979
INDIUM	230.606	Axial	961.9216	949.2286	966.9718	969.5643

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28091.70	512.0392	512.9020	512.6637	510.5517
ANTIMONY	206.833	Axial	66.26252	0.4816248	0.4790505	0.4901009	0.4757229
ARSENIC	189.042	Axial	93.59620	0.4849305	0.4857574	0.4826431	0.4863909
BARIUM	233.527	Axial	2585.595	0.4874725	0.4855548	0.4891380	0.4877246
BERYLLIUM	313.042	Radial	7860.261	0.5033725	0.5057501	0.5028714	0.5014960
BORON	249.678	Radial	197.6754	0.9733510	0.9756288	0.9814861	0.9629380
CADMIUM	228.802	Axial	1685.998	0.9861751	0.9920338	0.9947667	0.9717248
CALCIUM	373.690	Radial	48907.74	515.1129	516.5824	516.1952	512.5612
CERIUM	535.353	Radial	21.67836	0.1052184	0.09871197	0.1295126	0.08743057
CHROMIUM	267.716	Axial	1049.726	0.4883062	0.4865836	0.4912562	0.4870788
COBALT	228.616	Axial	442.8164	0.5349673	0.5344516	0.5342914	0.5361589
COPPER	324.754	Axial	2117.884	0.5133725	0.5146657	0.5119329	0.5135188
IRON	271.441	Radial	4079.871	203.5575	203.3230	203.6460	203.7035
LANTHANUM	333.749	Radial	-6.64443	-0.01176386	-0.01498091	-0.01111604	-0.009194635
LEAD	220.353	Axial	389.7677	1.043786	1.042174	1.044779	1.044406
LITHIUM	670.784	Radial	-9.99725	0.001713506	0.004453675	-0.0003587374	0.001045580
MAGNESIUM	279.079	Radial	43527.81	514.4994	514.4780	515.1876	513.8328
MANGANESE	257.610	Axial	9472.554	0.4896851	0.4890319	0.4914811	0.4885423
MOLYBDENUM	202.030	Axial	196.7912	0.4737898	0.4826643	0.4818446	0.4568605
NICKEL	231.604	Axial	788.9768	1.072614	1.068531	1.069045	1.080267
PHOSPHORUS	177.495	Axial	1.541090	-0.001221167	0.003032370	-0.003081593	-0.003614280
POTASSIUM	766.490	Radial	-25.5272	0.05904314	0.04268027	0.06854094	0.06590822
SELENIUM	196.090	Axial	62.74977	0.4779742	0.4766438	0.4830320	0.4742468
SILICON	251.611	Axial	866.9650	0.9324984	0.9253262	0.9323455	0.9398235
SILVER	328.068	Axial	3696.852	0.8788705	0.8850097	0.8700780	0.8815239
SODIUM	589.592	Radial	-34.1174	0.06796401	0.09443277	0.06819334	0.04126592
STRONTIUM	421.552	Radial	71.45502	0.006816121	0.006775377	0.006644152	0.007028835
SULFUR	182.034	Axial	4.423047	0.00008507571	-0.004626678	0.007989820	-0.003107914
THALLIUM	190.856	Axial	71.20626	0.4954285	0.4918322	0.4955899	0.4988634
TIN	189.989	Axial	166.1478	0.5264181	0.5229677	0.5246877	0.5315990
TITANIUM	334.941	Radial	781.7951	0.4900986	0.4886351	0.4883486	0.4933122
VANADIUM	292.402	Radial	287.1161	0.4964587	0.4918282	0.4971316	0.5004164
ZINC	206.200	Axial	2182.433	0.9611641	0.9582518	0.9670287	0.9582120

Sample ID: CCV Units: mg/l
Analyzed: 03/17/25 11:31 Sequence: 189 Standard ID: 25C17425

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4511.826	4453.112	4561.459	4520.907
YTTRIUM	360.073	Axial	47444.08	46896.27	47699.35	47736.62
YTTRIUM	360.073	Radial	4149.365	4168.678	4146.722	4132.694
INDIUM	230.606	Axial	1054.642	1040.516	1062.028	1061.383

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	557.1234	10.00270	9.991578	10.02881	9.987717
ANTIMONY	206.833	Axial	72.02865	0.5398551	0.5335557	0.5417332	0.5442763
ARSENIC	189.042	Axial	202.0117	1.088466	1.089581	1.087891	1.087924
BARIUM	233.527	Axial	2607.160	0.5067253	0.5043246	0.5066549	0.5091964
BERYLLIUM	313.042	Radial	3296.676	0.2058766	0.2063483	0.2053997	0.2058819
BORON	249.678	Radial	214.6569	1.031407	1.031111	1.031100	1.032011
CADMIUM	228.802	Axial	887.4056	0.5343441	0.5330294	0.5318191	0.5381839
CALCIUM	373.690	Radial	5096.749	52.40614	52.52452	52.31590	52.37800
CHROMIUM	267.716	Axial	2086.168	1.004599	1.002573	1.004697	1.006526
COBALT	228.616	Axial	892.5060	0.9884408	0.9872973	0.9892393	0.9887859
COPPER	324.754	Axial	4484.592	1.075279	1.071083	1.077657	1.077096
IRON	259.940	Radial	2558.015	10.24135	10.16044	10.46282	10.10077
LEAD	220.353	Axial	213.3795	0.5208368	0.5184466	0.5254474	0.5186165
LITHIUM	670.784	Radial	859.2170	0.9792755	0.9819185	0.9636095	0.9922984
MAGNESIUM	279.079	Radial	881.1687	10.19465	10.25602	10.16110	10.16684
MANGANESE	257.610	Axial	18897.76	1.006340	1.003603	1.005809	1.009608
MOLYBDENUM	202.030	Axial	106.4151	0.2640260	0.2642578	0.2617532	0.2660671
NICKEL	231.604	Axial	810.3076	1.004955	1.002758	1.007141	1.004967
PHOSPHORUS	177.495	Axial	201.7141	1.096938	1.098060	1.091997	1.100756
POTASSIUM	766.490	Radial	4996.896	51.53231	51.09924	51.93192	51.56576
SELENIUM	196.090	Axial	139.3586	1.099469	1.096749	1.097028	1.104631
SILICON	251.611	Axial	2026.378	2.163359	2.161779	2.144435	2.183862
SILVER	328.068	Axial	2230.272	0.5266057	0.5245041	0.5287489	0.5265641
SODIUM	818.326	Radial	244.3230	49.54606	48.89419	51.32477	48.41922
STRONTIUM	421.552	Radial	10536.75	1.030186	1.029589	1.020992	1.039978
SULFUR	182.034	Axial	290.6688	5.577720	5.563602	5.577766	5.591791
THALLIUM	190.856	Axial	165.5505	1.054694	1.048686	1.065411	1.049986
TIN	189.989	Axial	179.3960	0.5184411	0.5121545	0.5223360	0.5208329
TITANIUM	334.941	Radial	1676.538	1.023858	1.031593	1.009057	1.030922
VANADIUM	292.402	Radial	612.1154	1.028271	1.027829	1.033910	1.023075
ZINC	206.200	Axial	2318.074	1.058264	1.063783	1.038044	1.072966
CERIUM	535.353	Radial	14.48366	0.01693012	-0.01871757	0.05227672	0.01723120
LANTHANUM	333.749	Radial	-7.12599	-0.01239534	-0.01001097	-0.01419650	-0.01297855

Sample ID: CCB Units: mg/l
Analyzed: 03/17/25 11:33 Sequence: 190

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4336.504	4312.646	4344.740	4352.127
YTTRIUM	360.073	Axial	46193.08	46019.36	45766.62	46793.26
YTTRIUM	360.073	Radial	4252.857	4257.998	4227.850	4272.724
INDIUM	230.606	Axial	1038.752	1027.994	1034.125	1054.137

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.61579	-0.003170273	-0.002990262	0.01804236	-0.02456291
ANTIMONY	206.833	Axial	0.3616991	0.001597941	0.008075346	-0.003409412	0.0001278893
ARSENIC	189.042	Axial	0.9452267	-0.002289410	-0.003947448	-0.00004940277	-0.002871378
BARIUM	233.527	Axial	-3.29110	0.0007833847	0.0007253491	0.0005539450	0.001070860
BERYLLIUM	313.042	Radial	5.065054	0.00004000127	0.00008151390	-0.0001192372	0.0001577271
BORON	249.678	Radial	0.05110229	0.002553567	0.009301543	-0.004328027	0.002687184
CADMIUM	228.802	Axial	3.309288	0.0004324283	0.0005279886	0.0006923028	0.00007699349
CALCIUM	317.933	Radial	18.05611	0.0006383561	-0.0006065831	0.009550288	-0.007028637
CERIUM	535.353	Radial	15.57021	0.02500707	0.04213081	0.03232677	0.0005636248
CHROMIUM	267.716	Axial	8.280227	0.0002792002	0.001161046	-0.0002687461	-0.00005469981
COBALT	228.616	Axial	4.461493	-0.0009135078	-0.0006128129	-0.001122120	-0.001005591
COPPER	324.754	Axial	-6.14226	-0.0009623623	-0.001158178	-0.001107216	-0.0006216933
IRON	259.940	Radial	3.074681	-0.002473641	-0.002981787	-0.007639876	0.003200740
LANTHANUM	333.749	Radial	-3.83424	-0.005872596	-0.005406705	-0.005125616	-0.007085467
LEAD	220.353	Axial	0.3191436	0.0001075668	-0.0006870093	-0.0003330437	0.001342753
LITHIUM	670.784	Radial	-11.2220	0.0009166649	0.007342829	-0.004320098	-0.0002727368
MAGNESIUM	279.079	Radial	-1.68163	0.01203468	0.01698057	0.01341712	0.005706362
MANGANESE	257.610	Axial	-8.92988	0.0003219143	0.0005026404	0.0002462348	0.0002168678
MOLYBDENUM	202.030	Axial	0.3668315	0.0008483608	0.004907395	-0.002552677	0.0001903644
NICKEL	231.604	Axial	-0.8329986	0.001755674	0.003645362	0.0003391610	0.001282499
PHOSPHORUS	177.495	Axial	1.702645	0.0002557286	-0.002484234	0.0008537998	0.002397620
POTASSIUM	766.490	Radial	-11.3987	0.2131088	0.2413625	0.2140552	0.1839086
SELENIUM	196.090	Axial	0.5539431	0.0006317098	0.002907156	0.0002507281	-0.001262754
SILICON	251.611	Axial	6.224785	0.002194299	0.002558781	-0.0001358245	0.004159939
SILVER	328.068	Axial	-20.3879	-0.0002839557	-0.0007105731	0.0003128105	-0.0004541044
SODIUM	589.592	Radial	-0.5871109	0.1631785	0.1753449	0.1754513	0.1387393
STRONTIUM	421.552	Radial	5.147880	0.0001454695	0.0001584130	0.0001979294	0.00008006614
SULFUR	182.034	Axial	4.095099	-0.0004951739	-0.002783300	-0.0002187910	0.001516569
THALLIUM	190.856	Axial	-0.8455250	-0.009178047	-0.008912797	-0.01348195	-0.005139391
TIN	189.989	Axial	0.03292652	0.002450015	0.003179094	0.003266500	0.0009044514
TITANIUM	334.941	Radial	-1.46914	0.0007527615	0.00001721730	0.001754219	0.0004868478
VANADIUM	292.402	Radial	-1.93694	0.001076214	-0.001155289	-0.0002447178	0.004628650
ZINC	206.200	Axial	120.5853	0.001400020	0.001331260	0.001678617	0.001190183

Sample ID: BLANK DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:34 Sequence: 191

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4252.613	4189.862	4269.496	4298.483
YTTRIUM	360.073	Axial	45568.34	44997.48	45707.36	46000.18
YTTRIUM	360.073	Radial	4295.146	4304.943	4274.035	4306.460
INDIUM	230.606	Axial	1039.159	1022.054	1045.477	1049.946

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.447919	0.0007798851	0.009500801	-0.002632086	-0.004529059
BARIUM	233.527	Axial	-7.01123	0.00001003830	0.0005940913	-0.0002512380	-0.0003127384
BORON	249.678	Radial	-0.5643534	-0.0002770696	-0.001156145	0.002022070	-0.001697134
CADMIUM	228.802	Axial	3.507180	0.0005971069	0.0004496006	-0.00004720066	0.001388921
CHROMIUM	267.716	Axial	8.786002	0.0006139244	-0.0002425462	0.001855245	0.0002290746
COBALT	228.616	Axial	4.112048	-0.001295262	0.0008522496	-0.003153413	-0.001584621
LEAD	220.353	Axial	1.395379	0.002785463	0.002791849	0.002084925	0.003479614
LITHIUM	670.784	Radial	-12.2189	-0.00003296389	0.005397887	0.0001061387	-0.005602917
SELENIUM	196.090	Axial	0.5954424	0.0009317568	-0.01272145	-0.005956456	0.02147318
SILVER	328.068	Axial	-24.6240	-0.001387204	-0.001708851	-0.001090618	-0.001362143
ALUMINUM	308.215	Radial	-4.78246	0.01204170	0.004292914	0.01613029	0.01570190
ANTIMONY	206.833	Axial	0.3833000	0.001800398	0.001223859	0.0001418852	0.004035449
BERYLLIUM	313.042	Radial	2.475625	-0.0001187809	-0.00007181995	-0.00005216954	-0.0002323533
CALCIUM	317.933	Radial	22.13672	0.01741368	0.02268997	0.01870244	0.01084862
CERIUM	535.353	Radial	14.59222	0.01261919	-0.02346774	0.08415683	-0.02283150
COPPER	324.754	Axial	-3.22011	-0.0002464455	0.0005396978	-0.0004416681	-0.0008373661
IRON	259.940	Radial	3.484463	-0.0009885393	-0.0008152144	-0.001956302	-0.0001941016
LANTHANUM	333.749	Radial	-1.30856	-0.001108113	0.002790932	-0.0009202399	-0.005195032
MAGNESIUM	279.079	Radial	-2.37397	0.004489170	-0.004048763	0.002316593	0.01519968
MANGANESE	257.610	Axial	-12.6246	0.0001026328	0.00004640364	0.0001170896	0.0001444053
MOLYBDENUM	202.030	Axial	-0.05245279	-0.0002513402	-0.001318961	0.002039747	-0.001474806
NICKEL	231.604	Axial	-1.43548	0.0009829348	-0.0004875442	0.003084592	0.0003517563
PHOSPHORUS	177.495	Axial	3.492254	0.01085133	0.007888529	0.01399711	0.01066834
POTASSIUM	766.490	Radial	-13.2814	0.1957216	0.1123219	0.2650172	0.2098257
SILICON	251.611	Axial	10.81931	0.007419022	0.007600473	0.005739137	0.008917458
SODIUM	589.592	Radial	15.04927	0.2048618	0.2197926	0.2008145	0.1939784
STRONTIUM	421.552	Radial	5.848685	0.0002071903	0.000001042501	0.0004324442	0.0001880842
SULFUR	182.034	Axial	5.276904	0.02551132	0.01999982	0.02066448	0.03586968
THALLIUM	190.856	Axial	-0.5406376	-0.007207569	-0.01194972	-0.002262191	-0.007410799
TIN	189.989	Axial	3.244777	0.01182117	0.01226287	0.01188636	0.01131429
TITANIUM	334.941	Radial	-1.77917	0.0005754630	0.001024020	0.0003120870	0.0003902816
VANADIUM	292.402	Radial	-0.4944447	0.003445886	0.003134660	0.003467604	0.003735395
ZINC	206.200	Axial	117.6828	0.001116129	0.002102227	0.0006727643	0.0005733958

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:36 Sequence: 192

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4477.911	4460.562	4463.175	4509.997
YTTRIUM	360.073	Axial	47284.69	46946.28	47043.11	47864.68
YTTRIUM	360.073	Radial	4222.140	4208.798	4250.236	4207.385
INDIUM	230.606	Axial	1056.490	1045.339	1054.409	1069.722

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	211.7109	1.149850	1.151134	1.167187	1.131228
BARIUM	233.527	Axial	5321.989	1.040687	1.030207	1.046241	1.045612
BORON	249.678	Radial	221.2490	1.044752	1.053606	1.037066	1.043583
CADMIUM	228.802	Axial	1870.492	1.136672	1.128388	1.142794	1.138836
CHROMIUM	267.716	Axial	2122.890	1.030120	1.020081	1.036696	1.033583
COBALT	228.616	Axial	913.5023	1.010053	1.009656	1.008874	1.011630
LEAD	220.353	Axial	445.0494	1.085217	1.089201	1.085667	1.080782
LITHIUM	670.784	Radial	868.8488	0.9732693	0.9705890	0.9697051	0.9795138
SELENIUM	196.090	Axial	143.2083	1.138511	1.135840	1.131698	1.147993
SILVER	328.068	Axial	840.6795	0.2020562	0.2018623	0.2046988	0.1996076
ALUMINUM	308.215	Radial	607.2510	10.70824	10.73676	10.65589	10.73208
ANTIMONY	206.833	Axial	150.0953	1.134970	1.132358	1.148200	1.124352
BERYLLIUM	313.042	Radial	17274.34	1.061295	1.060529	1.063477	1.059879
CALCIUM	317.933	Radial	2420.420	10.52679	10.54772	10.51002	10.52263
CERIUM	535.353	Radial	22.25950	0.1015340	0.1169093	0.06841868	0.1192741
COPPER	324.754	Axial	4781.108	1.150253	1.145871	1.159756	1.145132
IRON	259.940	Radial	2730.651	10.74500	10.80703	10.68660	10.74135
LANTHANUM	333.749	Radial	-14.3903	-0.02589075	-0.02410416	-0.02684045	-0.02672764
MAGNESIUM	279.079	Radial	921.5476	10.47730	10.50346	10.48498	10.44346
MANGANESE	257.610	Axial	19128.23	1.026310	1.020610	1.028487	1.029834
MOLYBDENUM	202.030	Axial	458.8781	1.147469	1.141007	1.152812	1.148587
NICKEL	231.604	Axial	840.2723	1.040259	1.040420	1.049667	1.030692
PHOSPHORUS	177.495	Axial	210.0491	1.151377	1.158179	1.149442	1.146510
POTASSIUM	766.490	Radial	1043.523	10.83621	10.92694	10.76194	10.81976
SILICON	251.611	Axial	976.4519	1.043623	1.033124	1.061389	1.036355
SODIUM	589.592	Radial	3966.771	10.93493	10.93544	10.96987	10.89949
STRONTIUM	421.552	Radial	11175.76	1.073814	1.071899	1.078954	1.070589
SULFUR	182.034	Axial	594.7325	11.58806	11.63246	11.65297	11.47875
THALLIUM	190.856	Axial	173.7330	1.105118	1.114970	1.091907	1.108478
TIN	189.989	Axial	383.1310	1.102757	1.100491	1.113675	1.094106
TITANIUM	334.941	Radial	1772.787	1.063914	1.069958	1.064929	1.056855
VANADIUM	292.402	Radial	645.7576	1.065942	1.066751	1.064430	1.066644
ZINC	206.200	Axial	2445.335	1.128427	1.113918	1.140370	1.130992

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835037-06 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:38 Sequence: 193

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5041.854	5068.452	5098.781	4958.329
YTTRIUM	360.073	Axial	51125.12	51195.20	51249.02	50931.14
YTTRIUM	360.073	Radial	4392.176	4414.515	4398.792	4363.221
INDIUM	230.606	Axial	1013.884	1013.422	1012.706	1015.524

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	15.10636	0.06575747	0.06150817	0.06572601	0.07003823
BARIUM	233.527	Axial	8442.523	1.465769	1.454683	1.463744	1.478881
BORON	249.678	Radial	8.498576	0.04080719	0.04353794	0.04205072	0.03683290
CADMIUM	228.802	Axial	8.064322	0.002708772	0.003179761	0.002596672	0.002349884
CHROMIUM	267.716	Axial	263.5019	0.1101211	0.1087231	0.1093007	0.1123397
COBALT	228.616	Axial	96.81166	0.1062397	0.1053865	0.1065590	0.1067735
LEAD	220.353	Axial	122.6287	0.3110994	0.3127657	0.3145456	0.3059868
LITHIUM	670.784	Radial	168.3799	0.1920886	0.1910653	0.1916617	0.1935390
SELENIUM	196.090	Axial	-0.8436525	-0.009846763	-0.01335652	-0.01454688	-0.001636888
SILVER	328.068	Axial	3.466445	0.005367685	0.005316016	0.005570426	0.005216613
ALUMINUM	308.215	Radial	10327.60	173.6182	173.0907	174.1055	173.6585
ANTIMONY	206.833	Axial	0.8208593	0.004304919	0.005790893	-0.0003464517	0.007470316
BERYLLIUM	313.042	Radial	160.2025	0.009195309	0.009312604	0.009054820	0.009218504
CALCIUM	373.690	Radial	13545.54	131.5494	131.5956	131.4334	131.6193
CERIUM	535.353	Radial	62.97236	0.5316791	0.5489717	0.5121148	0.5339506
COPPER	324.754	Axial	2317.442	0.5159540	0.5115658	0.5168054	0.5194907
IRON	271.441	Radial	4098.139	188.5037	188.8402	188.6939	187.9770
LANTHANUM	333.749	Radial	104.3878	0.1911188	0.1916035	0.1900234	0.1917295
MAGNESIUM	279.079	Radial	5987.496	65.27396	65.60241	65.47291	64.74658
MANGANESE	257.610	Axial	108702.0	5.176948	5.152795	5.172097	5.205953
MOLYBDENUM	202.030	Axial	3.979658	0.008743713	0.007369225	0.008341448	0.01052047
NICKEL	231.604	Axial	99.13379	0.1303317	0.1322912	0.1298256	0.1288783
PHOSPHORUS	177.495	Axial	1571.126	7.703931	7.566172	7.605937	7.939685
POTASSIUM	766.490	Radial	3639.717	35.56286	35.46648	35.48095	35.74115
SILICON	251.611	Axial	19816.24	19.67045	19.71584	19.45697	19.83854
SODIUM	589.592	Radial	2792.216	7.452483	7.448280	7.453967	7.455201
STRONTIUM	421.552	Radial	11083.12	1.023674	1.019927	1.033721	1.017375
SULFUR	182.034	Axial	243.7501	4.165720	4.112558	4.118223	4.266380
THALLIUM	190.856	Axial	-1.17178	-0.01145622	-0.01240900	-0.009945511	-0.01201415
TIN	189.989	Axial	5.331051	0.01829709	0.01926914	0.01761822	0.01800390
TITANIUM	334.941	Radial	9697.438	5.587473	5.591890	5.623482	5.547047
VANADIUM	292.402	Radial	243.4355	0.3889837	0.3889063	0.3890224	0.3890225
ZINC	206.200	Axial	1880.884	0.7523537	0.7451317	0.7375408	0.7743887

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1835037-06 Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:39 Sequence: 194

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4709.066	4758.148	4663.100	4705.949
YTTRIUM	360.073	Axial	49524.51	49772.00	49084.90	49716.64
YTTRIUM	360.073	Radial	4269.991	4282.270	4248.025	4279.677
INDIUM	230.606	Axial	1069.644	1076.613	1060.770	1071.550

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	3.809916	0.01217958	0.07039778	0.06442649	0.04786943
BARIUM	233.527	Axial	1628.439	0.3038370	1.513542	1.518203	1.525810
BORON	249.678	Radial	2.225979	0.01270092	0.06756527	0.06378905	0.05915941
CADMIUM	228.802	Axial	4.884013	0.001176207	0.007744854	0.003956275	0.005941982
CHROMIUM	267.716	Axial	56.78423	0.02241416	0.1095304	0.1107665	0.1159156
COBALT	228.616	Axial	24.50805	0.02095510	0.1117880	0.09820514	0.1043332
LEAD	220.353	Axial	25.19355	0.06003046	0.3027911	0.2902539	0.3074118
LITHIUM	670.784	Radial	24.85018	0.04038750	0.2070919	0.2018382	0.1968824
SELENIUM	196.090	Axial	0.2936944	-0.001705346	-0.005955796	0.002772336	-0.02239673
SILVER	328.068	Axial	-18.5120	0.0004624036	-0.001353816	-0.0002440650	0.008533935
ALUMINUM	308.215	Radial	2040.533	35.36026	176.8983	177.1850	176.3206
ANTIMONY	206.833	Axial	1.520986	0.009755358	-0.02214264	0.05006864	0.1184044
BERYLLIUM	313.042	Radial	33.79608	0.001785312	0.008173967	0.009265837	0.009339872
CALCIUM	317.933	Radial	6036.092	26.07150	131.1105	129.7220	130.2399
CERIUM	535.353	Radial	23.61705	0.1138330	0.5433341	0.8171975	0.3469641
COPPER	324.754	Axial	456.7981	0.1054270	0.5209283	0.5271816	0.5332945
IRON	271.441	Radial	810.0702	38.29218	192.0382	192.2767	190.0679
LANTHANUM	333.749	Radial	19.08183	0.03700692	0.1638280	0.1761123	0.2151637
MAGNESIUM	279.079	Radial	1194.579	13.42058	67.51705	67.13527	66.65636
MANGANESE	257.610	Axial	20704.83	1.056399	5.236348	5.290045	5.319595
MOLYBDENUM	202.030	Axial	0.2632118	0.0005110484	0.006413635	-0.001913283	0.003165374
NICKEL	231.604	Axial	16.73028	0.02319002	0.1174420	0.1070757	0.1233326
PHOSPHORUS	177.495	Axial	317.8415	1.661003	8.166271	8.406637	8.342135
POTASSIUM	766.490	Radial	669.1311	6.99012	35.01359	35.01306	34.82515
SILICON	251.611	Axial	4704.002	4.816886	24.03523	24.27629	23.94179
SODIUM	589.592	Radial	546.4219	1.631699	8.262334	8.183486	8.029668
STRONTIUM	421.552	Radial	2211.199	0.2097964	1.060795	1.031295	1.054855
SULFUR	182.034	Axial	51.76210	0.8825776	4.326887	4.510092	4.401683
THALLIUM	190.856	Axial	0.4081528	-0.001090266	-0.01814891	-0.009574732	0.01136965
TIN	189.989	Axial	-0.001796534	0.002334398	0.02237171	0.01226378	0.0003804861
TITANIUM	334.941	Radial	1935.300	1.148302	5.775103	5.740798	5.708632
VANADIUM	292.402	Radial	47.95504	0.08219512	0.4260979	0.3933765	0.4134523
ZINC	206.200	Axial	485.9404	0.1653465	0.8124931	0.8347995	0.8329047

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1835037-06 Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:41 Sequence: 195

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5012.317	5013.303	4988.336	5035.312
YTTRIUM	360.073	Axial	50717.55	50985.01	50565.37	50602.28
YTTRIUM	360.073	Radial	4370.186	4340.449	4366.182	4403.928
INDIUM	230.606	Axial	1005.696	1005.155	1004.832	1007.102

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	228.7997	1.109845	1.095408	1.116154	1.117972
BARIUM	233.527	Axial	14069.78	2.456031	2.445321	2.468142	2.454631
BORON	249.678	Radial	235.5932	1.074669	1.071771	1.066544	1.085691
CADMIUM	228.802	Axial	1896.244	1.029323	1.026515	1.033218	1.028238
CHROMIUM	267.716	Axial	2574.618	1.116449	1.112103	1.115818	1.121427
COBALT	228.616	Axial	1076.348	1.251645	1.250205	1.250556	1.254173
LEAD	220.353	Axial	574.3050	1.471321	1.469373	1.474122	1.470466
LITHIUM	670.784	Radial	1215.328	1.310681	1.319533	1.323144	1.289366
SELENIUM	196.090	Axial	142.2937	1.010280	0.9943688	1.038379	0.9980928
SILVER	328.068	Axial	923.3785	0.2067892	0.2055198	0.2075218	0.2073261
ALUMINUM	308.215	Radial	10829.64	182.9660	183.0219	182.1034	183.7726
ANTIMONY	206.833	Axial	151.9326	1.026213	1.010226	1.031163	1.037250
BERYLLIUM	313.042	Radial	17992.07	1.067968	1.073435	1.063950	1.066520
CALCIUM	373.690	Radial	14370.47	140.2633	140.6547	140.2119	139.9233
CERIUM	535.353	Radial	63.37530	0.5394262	0.5364415	0.5209295	0.5609075
COPPER	324.754	Axial	7124.204	1.597748	1.578688	1.601939	1.612618
IRON	271.441	Radial	4264.029	197.1251	197.6678	196.2325	197.4749
LANTHANUM	333.749	Radial	89.85259	0.1655183	0.1659970	0.1667879	0.1637700
MAGNESIUM	279.079	Radial	6810.650	74.61921	74.90178	74.21740	74.73844
MANGANESE	257.610	Axial	127403.3	6.102950	6.088618	6.109270	6.110961
MOLYBDENUM	202.030	Axial	453.2804	1.012636	1.009885	1.020930	1.007092
NICKEL	231.604	Axial	984.5578	1.279741	1.276747	1.280067	1.282410
PHOSPHORUS	177.495	Axial	1762.136	8.690950	8.625441	8.864054	8.583356
POTASSIUM	766.490	Radial	4772.165	46.75763	46.84186	46.59596	46.83506
SILICON	251.611	Axial	23208.61	23.22386	23.05172	23.38365	23.23622
SODIUM	589.592	Radial	6964.899	18.43473	18.45310	18.39134	18.45975
STRONTIUM	421.552	Radial	22078.51	2.049866	2.043149	2.056922	2.049527
SULFUR	182.034	Axial	851.8330	14.85122	14.75488	15.04042	14.75834
THALLIUM	190.856	Axial	168.2201	1.124153	1.115727	1.142412	1.114321
TIN	189.989	Axial	384.6195	1.162788	1.148831	1.174765	1.164770
TITANIUM	334.941	Radial	11391.86	6.596641	6.620870	6.557493	6.611559
VANADIUM	292.402	Radial	898.1567	1.430883	1.432752	1.427921	1.431976
ZINC	206.200	Axial	4143.552	1.738650	1.707769	1.771954	1.736227

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1835037-06 Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:43 Sequence: 196

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5032.735	5003.523	5071.301	5023.382
YTTRIUM	360.073	Axial	51109.53	50627.88	51655.60	51045.09
YTTRIUM	360.073	Radial	4403.201	4401.650	4422.134	4385.820
INDIUM	230.606	Axial	1011.607	994.9983	1018.497	1021.326

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	216.3386	1.044693	1.043972	1.046256	1.043850
BARIUM	233.527	Axial	14541.73	2.527994	2.518728	2.542062	2.523194
BORON	249.678	Radial	223.3163	1.011182	1.004913	1.021094	1.007540
CADMIUM	228.802	Axial	1822.881	0.9853895	0.9757926	0.9872223	0.9931536
CHROMIUM	267.716	Axial	2484.990	1.073054	1.064513	1.074231	1.080419
COBALT	228.616	Axial	1031.803	1.192626	1.199960	1.198546	1.179371
LEAD	220.353	Axial	559.3893	1.424765	1.430020	1.432750	1.411525
LITHIUM	670.784	Radial	1180.923	1.264385	1.263538	1.278297	1.251321
SELENIUM	196.090	Axial	132.5644	0.9370401	0.9332631	0.9354918	0.9423655
SILVER	328.068	Axial	875.6091	0.1948635	0.1946685	0.1929933	0.1969286
ALUMINUM	308.215	Radial	12701.81	212.9741	212.5764	213.2297	213.1162
ANTIMONY	206.833	Axial	68.93040	0.4630351	0.4667061	0.4581495	0.4642496
BERYLLIUM	313.042	Radial	17198.09	1.013159	1.013835	1.012292	1.013349
CALCIUM	373.690	Radial	14470.04	140.1749	140.3015	139.9906	140.2325
CERIUM	535.353	Radial	69.09795	0.5960558	0.5425704	0.6059893	0.6396078
COPPER	324.754	Axial	7025.005	1.563344	1.562276	1.572001	1.555756
IRON	271.441	Radial	4300.768	197.3325	196.6250	197.7448	197.6276
LANTHANUM	333.749	Radial	102.2154	0.1867114	0.1863984	0.1836438	0.1900919
MAGNESIUM	279.079	Radial	7100.480	77.21007	77.09283	77.25774	77.27963
MANGANESE	257.610	Axial	127014.6	6.059563	6.025498	6.073472	6.079720
MOLYBDENUM	202.030	Axial	425.5307	0.9467298	0.9358262	0.9511287	0.9532344
NICKEL	231.604	Axial	948.7280	1.226107	1.228905	1.225505	1.223911
PHOSPHORUS	177.495	Axial	1836.841	9.022397	8.970529	9.047460	9.049202
POTASSIUM	766.490	Radial	5124.273	49.81029	49.64252	49.66090	50.12744
SILICON	251.611	Axial	21512.37	21.36097	21.34577	21.26148	21.47567
SODIUM	589.592	Radial	7123.213	18.71011	18.65428	18.67629	18.79974
STRONTIUM	421.552	Radial	22881.73	2.108500	2.095449	2.126645	2.103406
SULFUR	182.034	Axial	825.0057	14.32169	14.32535	14.34323	14.29648
THALLIUM	190.856	Axial	161.1420	1.070407	1.073617	1.070526	1.067077
TIN	189.989	Axial	342.2374	1.028921	1.033506	1.027115	1.026142
TITANIUM	334.941	Radial	12316.42	7.078300	7.058457	7.131628	7.044815
VANADIUM	292.402	Radial	870.4275	1.376464	1.376491	1.378741	1.374161
ZINC	206.200	Axial	4164.192	1.740210	1.725488	1.736269	1.758871

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1835037-06 Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:44 Sequence: 197

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5077.665	5022.236	5079.124	5131.636
YTTRIUM	360.073	Axial	51145.16	50834.99	50702.22	51898.25
YTTRIUM	360.073	Radial	4417.716	4417.315	4427.939	4407.895
INDIUM	230.606	Axial	1010.956	1004.346	999.8662	1028.657

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	218.0927	1.043847	1.045860	1.040523	1.045158
BARIUM	233.527	Axial	15016.40	2.587313	2.576755	2.572898	2.612285
BORON	249.678	Radial	223.0798	1.006818	1.006159	1.010169	1.004126
CADMIUM	228.802	Axial	1825.597	0.9781230	0.9777196	0.9764405	0.9802089
CHROMIUM	267.716	Axial	2497.361	1.068824	1.068045	1.062044	1.076384
COBALT	228.616	Axial	1039.716	1.202511	1.199954	1.203217	1.204364
LEAD	220.353	Axial	566.8628	1.444698	1.437157	1.452391	1.444544
LITHIUM	670.784	Radial	1217.851	1.299312	1.306424	1.293005	1.298507
SELENIUM	196.090	Axial	131.3005	0.9198154	0.9265274	0.9038847	0.9290340
SILVER	328.068	Axial	886.2841	0.1970457	0.1968796	0.1976891	0.1965683
ALUMINUM	308.215	Radial	13150.07	219.7615	220.0111	220.5638	218.7097
ANTIMONY	206.833	Axial	66.81329	0.4447834	0.4496312	0.4374835	0.4472354
BERYLLIUM	313.042	Radial	17362.95	1.019505	1.021624	1.021879	1.015012
CALCIUM	373.690	Radial	14628.69	141.2458	141.5064	141.0391	141.1919
CERIUM	535.353	Radial	67.12388	0.5723832	0.5908606	0.5500924	0.5761967
COPPER	324.754	Axial	7139.688	1.587794	1.589245	1.587268	1.586870
IRON	271.441	Radial	4351.240	198.9929	199.0541	199.0044	198.9203
LANTHANUM	333.749	Radial	103.2608	0.1879788	0.1864091	0.1915649	0.1859624
MAGNESIUM	279.079	Radial	7225.645	78.31254	78.17403	78.34893	78.41466
MANGANESE	257.610	Axial	134298.2	6.350218	6.344865	6.305946	6.399843
MOLYBDENUM	202.030	Axial	413.9438	0.9127685	0.9134604	0.8948356	0.9300096
NICKEL	231.604	Axial	956.4382	1.236836	1.230276	1.244217	1.236015
PHOSPHORUS	177.495	Axial	1810.347	8.813336	8.861688	8.664472	8.913849
POTASSIUM	766.490	Radial	5281.519	51.16042	51.00589	51.32595	51.14942
SILICON	251.611	Axial	21496.75	21.33095	21.01887	21.70122	21.27278
SODIUM	589.592	Radial	7229.487	18.92480	18.82571	18.96782	18.98085
STRONTIUM	421.552	Radial	22958.95	2.108710	2.129124	2.092171	2.104834
SULFUR	182.034	Axial	861.3672	14.82393	14.95955	14.64574	14.86650
THALLIUM	190.856	Axial	160.8296	1.068868	1.053030	1.069738	1.083835
TIN	189.989	Axial	339.7489	1.021956	1.012911	1.017107	1.035851
TITANIUM	334.941	Radial	11970.46	6.857073	6.884931	6.820216	6.866074
VANADIUM	292.402	Radial	873.0718	1.376115	1.377298	1.376762	1.374286
ZINC	206.200	Axial	4221.766	1.748868	1.733050	1.757441	1.756113

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835037-04 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:46 Sequence: 198

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5283.051	5255.003	5303.408	5290.743
YTTRIUM	360.073	Axial	53344.13	52955.10	53298.29	53779.01
YTTRIUM	360.073	Radial	4598.719	4614.406	4581.669	4600.080
INDIUM	230.606	Axial	998.1677	983.0117	996.0686	1015.423

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	22.32266	0.09583102	0.1014893	0.09318752	0.09281621
BARIUM	233.527	Axial	14005.91	2.319677	2.328955	2.314016	2.316060
CADMIUM	228.802	Axial	13.19953	0.005161312	0.005230287	0.005000691	0.005252959
CHROMIUM	267.716	Axial	436.4123	0.1762873	0.1766994	0.1748361	0.1773265
LEAD	220.353	Axial	291.7530	0.7529310	0.7660761	0.7583001	0.7344168
SELENIUM	196.090	Axial	-1.49042	-0.01402327	-0.01590431	-0.01083122	-0.01533430
SILVER	328.068	Axial	28.08292	0.01045614	0.01021829	0.009241879	0.01190826
ALUMINUM	308.215	Radial	21673.09	347.8869	348.6243	347.4952	347.5412
ANTIMONY	206.833	Axial	2.372619	0.01399931	0.02207198	0.008648633	0.01127730
BERYLLIUM	313.042	Radial	338.5909	0.01883494	0.01898651	0.01871983	0.01879847
BORON	249.678	Radial	22.64714	0.1002829	0.1029199	0.09432307	0.1036057
CALCIUM	373.690	Radial	15462.74	143.4228	143.4803	143.9764	142.8117
CERIUM	535.353	Radial	101.4307	0.8980204	0.9350393	0.8981795	0.8608425
COBALT	228.616	Axial	153.9154	0.1752490	0.1773410	0.1746823	0.1737238
COPPER	324.754	Axial	4804.967	1.024722	1.025037	1.025253	1.023875
IRON	271.441	Radial	6445.697	283.1928	284.3016	282.8096	282.4673
LANTHANUM	333.749	Radial	201.8787	0.3518822	0.3564312	0.3521564	0.3470590
LITHIUM	670.784	Radial	359.2761	0.3777046	0.3764722	0.3756855	0.3809562
MAGNESIUM	279.079	Radial	9396.481	97.82395	97.93508	97.70325	97.83351
MANGANESE	257.610	Axial	231125.6	10.50373	10.56867	10.48022	10.46230
MOLYBDENUM	202.030	Axial	7.689936	0.01619239	0.01581381	0.01356447	0.01919890
NICKEL	231.604	Axial	172.7737	0.2285864	0.2294919	0.2298503	0.2264170
PHOSPHORUS	177.495	Axial	2079.753	9.732687	9.767321	9.523211	9.907529
POTASSIUM	766.490	Radial	7798.231	72.42942	72.42951	72.57649	72.28227
SILICON	251.611	Axial	20512.91	19.51507	19.68964	19.38028	19.47530
SODIUM	589.592	Radial	6695.575	16.85542	16.89955	16.85307	16.81363
STRONTIUM	421.552	Radial	13571.06	1.197249	1.189786	1.194344	1.207616
SULFUR	182.034	Axial	269.7045	4.402672	4.403797	4.370328	4.433891
THALLIUM	190.856	Axial	-1.00298	-0.01041910	-0.009960680	-0.008044089	-0.01325254
TIN	189.989	Axial	6.510547	0.02215337	0.02522739	0.02003602	0.02119670
TITANIUM	334.941	Radial	9311.596	5.124434	5.116512	5.119632	5.137157
VANADIUM	292.402	Radial	324.5933	0.4941971	0.4989485	0.4889533	0.4946896
ZINC	206.200	Axial	3376.367	1.330690	1.326456	1.313567	1.352049

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835037-05 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:48 Sequence: 199

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5117.136	5149.731	5133.252	5068.426
YTTRIUM	360.073	Axial	51878.29	51669.02	52096.97	51868.89
YTTRIUM	360.073	Radial	4502.155	4505.805	4507.452	4493.208
INDIUM	230.606	Axial	997.4212	993.8597	1002.918	995.4855

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	17.82543	0.07766580	0.07733531	0.07557743	0.08008465
BARIUM	233.527	Axial	11003.50	1.881836	1.870790	1.876432	1.898286
CADMIUM	228.802	Axial	10.51172	0.003951960	0.004046628	0.003463180	0.004346072
CHROMIUM	267.716	Axial	341.2108	0.1415519	0.1402232	0.1424711	0.1419612
LEAD	220.353	Axial	190.9110	0.4927194	0.5006812	0.4893170	0.4881601
SELENIUM	196.090	Axial	-0.8503094	-0.009872092	-0.009026712	-0.01150057	-0.009088991
SILVER	328.068	Axial	16.13921	0.008071076	0.008912497	0.007845584	0.007455149
ALUMINUM	308.215	Radial	15428.39	252.9878	252.3660	253.6699	252.9274
ANTIMONY	206.833	Axial	1.545122	0.009000079	0.001468963	0.01581379	0.009717485
BERYLLIUM	313.042	Radial	237.0628	0.01339387	0.01336996	0.01332720	0.01348445
BORON	249.678	Radial	16.09544	0.07344584	0.07428384	0.07360927	0.07244440
CALCIUM	373.690	Radial	20421.84	193.4745	193.1640	194.3192	192.9402
CERIUM	535.353	Radial	84.76951	0.7448735	0.7542358	0.7272944	0.7530903
COBALT	228.616	Axial	120.2198	0.1356738	0.1364845	0.1339066	0.1366303
COPPER	324.754	Axial	3461.842	0.7592791	0.7555088	0.7592270	0.7631015
IRON	271.441	Radial	5184.254	232.6496	233.0704	232.3895	232.4890
LANTHANUM	333.749	Radial	148.7464	0.2651621	0.2693126	0.2617025	0.2644711
LITHIUM	670.784	Radial	257.3828	0.2799371	0.2805488	0.2825705	0.2766920
MAGNESIUM	279.079	Radial	7911.800	84.13842	84.19873	84.24993	83.96659
MANGANESE	257.610	Axial	165950.9	7.786849	7.747329	7.734820	7.878398
MOLYBDENUM	202.030	Axial	5.930130	0.01286573	0.01192880	0.01467967	0.01198872
NICKEL	231.604	Axial	135.8138	0.1804072	0.1805066	0.1789833	0.1817318
PHOSPHORUS	177.495	Axial	1972.503	9.530508	9.302010	9.611472	9.678042
POTASSIUM	766.490	Radial	5726.173	54.40669	54.17278	54.53223	54.51505
SILICON	251.611	Axial	18799.15	18.38949	18.45255	18.29919	18.41675
SODIUM	589.592	Radial	5485.424	14.13211	14.10407	14.13585	14.15639
STRONTIUM	421.552	Radial	14551.21	1.311277	1.305191	1.319647	1.308995
SULFUR	182.034	Axial	368.4227	6.243577	6.203042	6.244162	6.283525
THALLIUM	190.856	Axial	-0.6186282	-0.007859887	-0.01633037	-0.004217467	-0.003031820
TIN	189.989	Axial	5.089398	0.01781688	0.01452488	0.02046062	0.01846514
TITANIUM	334.941	Radial	9368.949	5.266525	5.281248	5.265803	5.252523
VANADIUM	292.402	Radial	276.3182	0.4302882	0.4313439	0.4264424	0.4330783
ZINC	206.200	Axial	2588.155	1.040866	1.028848	1.037942	1.055807

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/17/25 11:51 Sequence: 201 Standard ID: 25C17425

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4519.279	4446.810	4563.926	4547.101
YTTRIUM	360.073	Axial	47164.09	46383.20	47353.59	47755.49
YTTRIUM	360.073	Radial	4186.159	4189.673	4181.054	4187.750
INDIUM	230.606	Axial	1046.121	1027.452	1052.854	1058.057

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	559.3030	9.954049	9.936907	9.979148	9.946091
ANTIMONY	206.833	Axial	72.70864	0.5440553	0.5388109	0.5488737	0.5444813
ARSENIC	189.042	Axial	200.2004	1.076992	1.093745	1.054052	1.083178
BARIUM	233.527	Axial	2595.777	0.5036869	0.5017047	0.5034870	0.5058691
BERYLLIUM	313.042	Radial	3326.842	0.2059357	0.2059922	0.2066619	0.2051531
BORON	249.678	Radial	215.0446	1.024206	1.028318	1.029742	1.014558
CADMIUM	228.802	Axial	884.5991	0.5317758	0.5329305	0.5314964	0.5309004
CALCIUM	373.690	Radial	5101.261	51.99197	52.10152	52.15381	51.72059
CHROMIUM	267.716	Axial	2068.792	0.9945938	0.9977714	0.9863086	0.9997015
COBALT	228.616	Axial	884.4252	0.9875392	0.9960615	0.9780492	0.9885069
COPPER	324.754	Axial	4471.590	1.078597	1.084348	1.076165	1.075279
IRON	259.940	Radial	2575.879	10.22225	10.16707	10.27645	10.22322
LEAD	220.353	Axial	212.4936	0.5229420	0.5257011	0.5207327	0.5223923
LITHIUM	670.784	Radial	859.4503	0.9710350	0.9810767	0.9748687	0.9571597
MAGNESIUM	279.079	Radial	885.9557	10.16019	10.16550	10.16936	10.14572
MANGANESE	257.610	Axial	18784.74	0.9987223	1.001513	0.9891003	1.005554
MOLYBDENUM	202.030	Axial	105.8187	0.2621167	0.2635258	0.2607942	0.2620300
NICKEL	231.604	Axial	806.9461	1.009020	1.017640	1.005376	1.004045
PHOSPHORUS	177.495	Axial	199.1616	1.081222	1.095820	1.082864	1.064981
POTASSIUM	766.490	Radial	5018.889	51.30496	51.12230	51.47828	51.31430
SELENIUM	196.090	Axial	138.5059	1.090999	1.103084	1.095600	1.074313
SILICON	251.611	Axial	2055.162	2.207276	2.204932	2.234427	2.182468
SILVER	328.068	Axial	2227.831	0.5291610	0.5312551	0.5287554	0.5274723
SODIUM	818.326	Radial	242.0765	48.70339	47.36979	49.23849	49.50189
STRONTIUM	421.552	Radial	10525.79	1.020054	1.025559	1.021124	1.013480
SULFUR	182.034	Axial	288.7950	5.532937	5.639887	5.431326	5.527597
THALLIUM	190.856	Axial	163.9498	1.053105	1.060704	1.047495	1.051117
TIN	189.989	Axial	177.2285	0.5164137	0.5176565	0.5170111	0.5145735
TITANIUM	334.941	Radial	1681.212	1.017700	1.024161	1.013740	1.015200
VANADIUM	292.402	Radial	616.9674	1.027323	1.029915	1.030595	1.021457
ZINC	206.200	Axial	2298.055	1.046689	1.047537	1.061553	1.030977
CERIUM	535.353	Radial	19.64189	0.07392515	0.02847336	0.1161909	0.07711118
LANTHANUM	333.749	Radial	-8.71561	-0.01530453	-0.01206694	-0.01843113	-0.01541552

Sample ID: CCB Units: mg/l
Analyzed: 03/17/25 11:53 Sequence: 202

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4362.391	4320.257	4368.240	4398.676
YTTRIUM	360.073	Axial	46574.85	46112.33	46674.88	46937.34
YTTRIUM	360.073	Radial	4332.119	4304.011	4324.077	4368.268
INDIUM	230.606	Axial	1041.128	1029.189	1039.473	1054.722

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.56838	-0.0007665902	-0.0005213236	-0.03407882	0.03230038
ANTIMONY	206.833	Axial	0.4453516	0.002244508	0.007809128	0.0008772604	-0.001952864
ARSENIC	189.042	Axial	0.9393556	-0.002358912	-0.002332603	-0.006146866	0.001402734
BARIUM	233.527	Axial	-6.90994	0.00006437754	0.0005837017	-0.0003547892	-0.00003577991
BERYLLIUM	313.042	Radial	5.072287	0.00003502195	0.00000004725814	0.000006228234	0.00009879036
BORON	249.678	Radial	0.7974722	0.006013927	0.008675568	0.008358550	0.001007662
CADMIUM	228.802	Axial	3.927615	0.0008078316	0.001378843	0.0001622706	0.0008823813
CALCIUM	317.933	Radial	19.83879	0.006750486	-0.0009973598	0.008246642	0.01300218
CERIUM	535.353	Radial	19.21882	0.06157151	0.05115308	0.02215923	0.1114022
CHROMIUM	267.716	Axial	10.28949	0.001258055	0.001637913	0.0008552099	0.001281043
COBALT	228.616	Axial	5.389003	0.0001058165	-0.0004675016	-0.001966160	0.002751111
COPPER	324.754	Axial	-3.30433	-0.0002490814	0.001000867	-0.001033332	-0.0007147794
IRON	259.940	Radial	2.269983	-0.005767385	-0.008080260	-0.003074380	-0.006147515
LANTHANUM	333.749	Radial	0.1195641	0.001543508	0.0008469542	0.002326811	0.001456758
LEAD	220.353	Axial	0.3127603	0.0001105338	0.001800115	-0.0004483192	-0.001020195
LITHIUM	670.784	Radial	-9.49205	0.003018161	0.002858873	0.003925646	0.002269962
MAGNESIUM	279.079	Radial	-2.80764	-0.00008993574	-0.0006695446	-0.005174381	0.005574119
MANGANESE	257.610	Axial	-7.07799	0.0004275760	0.0007048986	0.0002809206	0.0002969087
MOLYBDENUM	202.030	Axial	0.06020546	0.00003488031	-0.002859911	0.003046750	-0.00008219765
NICKEL	231.604	Axial	-3.23918	-0.001266589	-0.001269227	-0.001944666	-0.0005858728
PHOSPHORUS	177.495	Axial	1.661422	-0.00002667478	0.0001701603	-0.00005120644	-0.0001989782
POTASSIUM	766.490	Radial	-7.95989	0.2485836	0.1927250	0.2339196	0.3191060
SELENIUM	196.090	Axial	0.2412638	-0.001983138	-0.005175530	-0.002589855	0.001815972
SILICON	251.611	Axial	12.44477	0.008927360	0.008075798	0.008945193	0.009761089
SILVER	328.068	Axial	-23.0152	-0.0008734510	-0.001354512	-0.00001298945	-0.001252851
SODIUM	589.592	Radial	-2.01571	0.1593798	0.1491718	0.1771297	0.1518378
STRONTIUM	421.552	Radial	3.185084	-0.00004685253	0.0001115564	-0.00006159047	-0.0001905235
SULFUR	182.034	Axial	3.791758	-0.007099185	-0.009707149	-0.003782583	-0.007807823
THALLIUM	190.856	Axial	-0.2896278	-0.005544407	-0.005829847	-0.005968189	-0.004835185
TIN	189.989	Axial	-1.39250	-0.001718699	-0.003345699	0.0004338371	-0.002244235
TITANIUM	334.941	Radial	-1.24437	0.0008934639	0.0003477887	0.0005451207	0.001787482
VANADIUM	292.402	Radial	-0.8462718	0.002892865	0.002467632	0.004667463	0.001543500
ZINC	206.200	Axial	126.8296	0.004157609	0.004870921	0.003905692	0.003696213

Sample ID: L1835560-01 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:54 Sequence: 203

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4963.656	4927.787	4948.578	5014.604
YTTRIUM	360.073	Axial	50455.88	49949.43	50399.07	51019.15
YTTRIUM	360.073	Radial	4374.175	4387.106	4366.739	4368.682
INDIUM	230.606	Axial	1011.219	1006.987	1009.095	1017.575

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.179756	0.01793970	0.02343463	0.01413630	0.01624819
BARIUM	233.527	Axial	2975.011	0.5255197	0.5213782	0.5253563	0.5298247
BORON	249.678	Radial	3.970541	0.02038385	0.02234594	0.01354599	0.02525962
CADMIUM	228.802	Axial	7.406479	0.002413284	0.001834953	0.001960982	0.003443918
CHROMIUM	267.716	Axial	195.7218	0.08211037	0.08050787	0.08306322	0.08276001
COBALT	228.616	Axial	49.43896	0.05148786	0.05079572	0.05246459	0.05120326
LEAD	220.353	Axial	84.94471	0.2158539	0.2180515	0.2120443	0.2174660
LITHIUM	670.784	Radial	32.60853	0.04801616	0.04790401	0.05083808	0.04530639
SELENIUM	196.090	Axial	0.3325360	-0.001550694	-0.002609098	-0.001435927	-0.0006070567
SILVER	328.068	Axial	-22.1425	-0.0002470429	0.001697964	-0.0009056773	-0.001533416
ALUMINUM	308.215	Radial	4153.679	70.17076	70.36812	69.90173	70.24242
ANTIMONY	206.833	Axial	1.100062	0.006283818	0.008927491	0.006792143	0.003131820
BERYLLIUM	313.042	Radial	60.38775	0.003313468	0.003373537	0.003291556	0.003275311
CALCIUM	373.690	Radial	99564.11	970.7762	973.5873	969.8256	968.9157
CERIUM	535.353	Radial	35.74554	0.2390225	0.2641601	0.2183737	0.2345337
COPPER	324.754	Axial	211.7812	0.04827615	0.04872337	0.04746246	0.04864261
IRON	271.441	Radial	1763.969	81.44696	81.49155	81.26884	81.58048
LANTHANUM	333.749	Radial	52.21269	0.09664507	0.09709781	0.09745532	0.09538208
MAGNESIUM	279.079	Radial	4716.175	51.63360	51.81167	51.42344	51.66569
MANGANESE	257.610	Axial	62332.89	3.015511	2.999666	3.017800	3.029066
MOLYBDENUM	202.030	Axial	0.6018566	0.001244087	0.002517206	-0.001431008	0.002646064
NICKEL	231.604	Axial	58.99458	0.07888078	0.07538654	0.07935822	0.08189758
PHOSPHORUS	177.495	Axial	493.4443	2.450669	2.452265	2.453508	2.446235
POTASSIUM	766.490	Radial	756.4611	7.680223	7.725797	7.656290	7.658581
SILICON	251.611	Axial	22747.35	22.87950	22.86877	22.82107	22.94866
SODIUM	589.592	Radial	599.8440	1.736762	1.733880	1.744297	1.732110
STRONTIUM	421.552	Radial	6333.638	0.5872702	0.5823537	0.5872840	0.5921730
SULFUR	182.034	Axial	321.2352	5.604005	5.643341	5.644205	5.524468
THALLIUM	190.856	Axial	-0.5496153	-0.007329905	-0.007916527	-0.006915601	-0.007157587
TIN	189.989	Axial	2.722941	0.01051480	0.009719436	0.01212771	0.009697256
TITANIUM	334.941	Radial	792.5604	0.4600464	0.4537472	0.4635205	0.4628716
VANADIUM	292.402	Radial	94.00541	0.1534276	0.1531552	0.1513545	0.1557732
ZINC	206.200	Axial	1129.716	0.4358394	0.4348797	0.4328372	0.4398014

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-02 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:56 Sequence: 204

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4976.457	4918.654	4994.139	5016.579
YTTRIUM	360.073	Axial	51088.84	50564.73	50944.95	51756.85
YTTRIUM	360.073	Radial	4357.111	4357.140	4353.966	4360.226
INDIUM	230.606	Axial	1033.111	1023.493	1032.633	1043.206

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	6.370255	0.02371073	0.02304575	0.02366394	0.02442251
BARIUM	233.527	Axial	4167.945	0.7338013	0.7327711	0.7318458	0.7367872
BORON	249.678	Radial	3.997380	0.02057874	0.02131888	0.01578061	0.02463674
CADMIUM	228.802	Axial	4.584002	0.0008586442	0.0002923197	0.0006981722	0.001585441
CHROMIUM	267.716	Axial	285.7797	0.1213585	0.1204725	0.1206504	0.1229526
COBALT	228.616	Axial	55.36782	0.05701128	0.05803714	0.05440019	0.05859651
LEAD	220.353	Axial	47.26217	0.1172317	0.1114299	0.1233321	0.1169331
LITHIUM	670.784	Radial	62.89029	0.08057533	0.08247848	0.08112441	0.07812310
SELENIUM	196.090	Axial	-0.03835914	-0.004239551	-0.007471630	-0.007349377	0.002102355
SILVER	328.068	Axial	-10.2284	0.002391484	0.002498204	0.002156569	0.002519677
ALUMINUM	308.215	Radial	6106.569	103.5218	103.3545	103.5261	103.6849
ANTIMONY	206.833	Axial	1.545795	0.009330204	0.01812946	0.002413355	0.007447795
BERYLLIUM	313.042	Radial	88.26328	0.004987600	0.005046409	0.005015763	0.004900628
CALCIUM	373.690	Radial	44543.33	436.0228	435.3344	435.7774	436.9565
CERIUM	535.353	Radial	42.26686	0.3116216	0.2929625	0.3269990	0.3149033
COPPER	324.754	Axial	317.7106	0.07126581	0.07204483	0.07115391	0.07059867
IRON	271.441	Radial	2788.196	129.2688	129.0271	129.1652	129.6143
LANTHANUM	333.749	Radial	65.96023	0.1222154	0.1179903	0.1244714	0.1241845
MAGNESIUM	279.079	Radial	2473.147	27.19732	27.17962	27.15790	27.25443
MANGANESE	257.610	Axial	52453.44	2.531189	2.525124	2.523674	2.544769
MOLYBDENUM	202.030	Axial	2.104273	0.004630918	0.006127061	0.001418403	0.006347289
NICKEL	231.604	Axial	85.76323	0.1110702	0.1101250	0.1110797	0.1120060
PHOSPHORUS	177.495	Axial	731.8526	3.629727	3.606545	3.640509	3.642127
POTASSIUM	766.490	Radial	1417.986	14.16466	14.10071	14.14464	14.24865
SILICON	251.611	Axial	14461.14	14.36251	14.22850	14.38542	14.47361
SODIUM	589.592	Radial	606.4846	1.760385	1.740755	1.769218	1.771183
STRONTIUM	421.552	Radial	10547.94	0.9820816	0.9773788	0.9837358	0.9851301
SULFUR	182.034	Axial	166.1104	2.849677	2.838044	2.857048	2.853938
THALLIUM	190.856	Axial	-0.5094256	-0.007003278	-0.009898504	-0.005772095	-0.005339236
TIN	189.989	Axial	4.016516	0.01414569	0.01563730	0.01325257	0.01354719
TITANIUM	334.941	Radial	1196.747	0.6965272	0.6946404	0.6966623	0.6982788
VANADIUM	292.402	Radial	134.6438	0.2187553	0.2159092	0.2190377	0.2213190
ZINC	206.200	Axial	877.5802	0.3244152	0.3263691	0.3199128	0.3269637

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-03 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:58 Sequence: 205

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5005.220	4910.735	5041.426	5063.499
YTTRIUM	360.073	Axial	51413.40	50671.83	52140.21	51428.14
YTTRIUM	360.073	Radial	4450.026	4447.422	4480.338	4422.320
INDIUM	230.606	Axial	1050.084	1028.019	1067.794	1054.440

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	8.842340	0.03570165	0.04423819	0.02809844	0.03476831
BARIUM	233.527	Axial	5499.852	0.9622241	0.9545263	0.9696128	0.9625332
BORON	249.678	Radial	3.702837	0.01888701	0.01449984	0.01989975	0.02226144
CADMIUM	228.802	Axial	8.390464	0.002917742	0.002676573	0.002619817	0.003456836
CHROMIUM	267.716	Axial	292.5306	0.1235842	0.1233856	0.1227895	0.1245777
COBALT	228.616	Axial	60.33938	0.06157275	0.06232396	0.05980403	0.06259028
LEAD	220.353	Axial	131.6634	0.3225043	0.3219242	0.3262354	0.3193533
LITHIUM	670.784	Radial	51.38047	0.06710751	0.06739377	0.06579138	0.06813740
SELENIUM	196.090	Axial	0.9692125	0.002959621	0.0009002446	0.003864105	0.004114514
SILVER	328.068	Axial	0.4602735	0.004716690	0.005106592	0.004658959	0.004384517
ALUMINUM	308.215	Radial	6652.941	110.4213	110.2284	110.9091	110.1264
ANTIMONY	206.833	Axial	0.6207074	0.002926206	0.0004255408	-0.001029588	0.009382666
BERYLLIUM	313.042	Radial	110.9710	0.006202165	0.006216768	0.006120271	0.006269454
CALCIUM	373.690	Radial	18526.05	177.5734	177.3799	177.3803	177.9600
CERIUM	535.353	Radial	45.27465	0.3340203	0.3444110	0.3445628	0.3130871
COPPER	324.754	Axial	715.3424	0.1587526	0.1592575	0.1589495	0.1580507
IRON	271.441	Radial	3622.081	164.4350	163.8424	164.9576	164.5051
LANTHANUM	333.749	Radial	66.80766	0.1212075	0.1238324	0.1210743	0.1187157
MAGNESIUM	279.079	Radial	1688.382	18.18976	18.21061	18.19242	18.16626
MANGANESE	257.610	Axial	61614.35	2.956022	2.945384	2.980602	2.942079
MOLYBDENUM	202.030	Axial	2.911058	0.006413157	0.007228543	0.007131671	0.004879257
NICKEL	231.604	Axial	90.61008	0.1153569	0.1163399	0.1148310	0.1148998
PHOSPHORUS	177.495	Axial	880.4901	4.344603	4.425443	4.305598	4.302769
POTASSIUM	766.490	Radial	1214.721	11.93352	11.87798	11.97198	11.95061
SILICON	251.611	Axial	23901.05	23.59158	23.64390	23.88282	23.24802
SODIUM	589.592	Radial	726.5750	2.036364	2.021619	2.058572	2.028902
STRONTIUM	421.552	Radial	4940.851	0.4502350	0.4481363	0.4506560	0.4519126
SULFUR	182.034	Axial	221.9740	3.813762	3.832740	3.744902	3.863643
THALLIUM	190.856	Axial	-0.05018751	-0.003928100	0.001695284	-0.006595229	-0.006884353
TIN	189.989	Axial	4.490788	0.01532853	0.01676764	0.01593127	0.01328668
TITANIUM	334.941	Radial	1567.178	0.8926452	0.8860043	0.8901225	0.9018089
VANADIUM	292.402	Radial	163.5319	0.2593341	0.2587390	0.2608775	0.2583858
ZINC	206.200	Axial	2125.502	0.8645335	0.8765766	0.8869770	0.8300471

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-04 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:59 Sequence: 206

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5016.508	4962.980	5048.465	5038.078
YTTRIUM	360.073	Axial	51797.29	50696.65	52329.25	52365.96
YTTRIUM	360.073	Radial	4443.886	4457.777	4451.890	4421.992
INDIUM	230.606	Axial	1029.761	1011.402	1040.465	1037.415

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	11.20442	0.04702652	0.04105002	0.04585821	0.05417133
BARIUM	233.527	Axial	7961.316	1.389110	1.373676	1.391404	1.402250
BORON	249.678	Radial	-1.22564	-0.003173179	-0.001666225	0.002941154	-0.01079447
CADMIUM	228.802	Axial	7.528775	0.002442352	0.002290072	0.001203262	0.003833722
CHROMIUM	267.716	Axial	414.7273	0.1764249	0.1755103	0.1773181	0.1764462
COBALT	228.616	Axial	92.48532	0.09957322	0.09961359	0.09994875	0.09915733
LEAD	220.353	Axial	82.43695	0.2056630	0.2034289	0.2044673	0.2090927
LITHIUM	670.784	Radial	71.51137	0.08829946	0.09294952	0.08748448	0.08446439
SELENIUM	196.090	Axial	0.5773522	0.0001952325	0.003731099	-0.006238153	0.003092751
SILVER	328.068	Axial	14.51959	0.007733187	0.008246700	0.006977238	0.007975623
ALUMINUM	308.215	Radial	9465.086	157.2758	156.7132	157.6116	157.5026
ANTIMONY	206.833	Axial	1.118893	0.006323218	0.007234726	-0.00008881422	0.01182374
BERYLLIUM	313.042	Radial	168.9800	0.009597943	0.009503760	0.009628490	0.009661580
CALCIUM	373.690	Radial	10267.89	98.56157	98.65650	98.95301	98.07520
CERIUM	535.353	Radial	57.26179	0.4627825	0.4977241	0.4210521	0.4695712
COPPER	324.754	Axial	522.4295	0.1152309	0.1151841	0.1139978	0.1165108
IRON	271.441	Radial	5005.138	227.5559	227.9324	227.0884	227.6468
LANTHANUM	333.749	Radial	80.46119	0.1459082	0.1498356	0.1433256	0.1445633
MAGNESIUM	279.079	Radial	1729.221	18.65483	18.63783	18.63848	18.68817
MANGANESE	257.610	Axial	70293.66	3.364683	3.340201	3.361978	3.391870
MOLYBDENUM	202.030	Axial	3.804044	0.008373949	0.006402150	0.006652385	0.01206731
NICKEL	231.604	Axial	149.1619	0.1917305	0.1911426	0.1896491	0.1943999
PHOSPHORUS	177.495	Axial	1030.196	5.072740	5.114721	5.098916	5.004581
POTASSIUM	766.490	Radial	1626.066	15.88543	15.88549	15.87923	15.89158
SILICON	251.611	Axial	24841.00	24.34019	24.46237	24.26858	24.28961
SODIUM	589.592	Radial	425.0116	1.261073	1.267652	1.260260	1.255306
STRONTIUM	421.552	Radial	3979.757	0.3630746	0.3626183	0.3694542	0.3571514
SULFUR	182.034	Axial	230.9318	3.961942	3.992659	4.001673	3.891495
THALLIUM	190.856	Axial	-1.50758	-0.01349816	-0.009131783	-0.01406270	-0.01730001
TIN	189.989	Axial	4.339852	0.01513963	0.01598975	0.01301472	0.01641441
TITANIUM	334.941	Radial	1562.846	0.8914019	0.8915666	0.8843702	0.8982688
VANADIUM	292.402	Radial	223.0150	0.3526079	0.3510675	0.3547269	0.3520291
ZINC	206.200	Axial	4115.767	1.724960	1.707728	1.724543	1.742609

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-05 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:01 Sequence: 207

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4994.827	4952.445	5088.002	4944.036
YTTRIUM	360.073	Axial	51112.97	50470.23	51629.52	51239.18
YTTRIUM	360.073	Radial	4417.151	4433.960	4422.834	4394.658
INDIUM	230.606	Axial	1041.104	1034.236	1047.798	1041.280

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	6.178138	0.02263441	0.02586808	0.02493429	0.01710086
BARIUM	233.527	Axial	6971.837	1.221968	1.208466	1.224704	1.232735
BORON	249.678	Radial	4.450202	0.02237504	0.02311599	0.01993610	0.02407302
CADMIUM	228.802	Axial	7.745524	0.002572421	0.002023312	0.003212765	0.002481185
CHROMIUM	267.716	Axial	259.2906	0.1093512	0.1091644	0.1079420	0.1109473
COBALT	228.616	Axial	43.87570	0.04356124	0.04468894	0.04388074	0.04211404
LEAD	220.353	Axial	64.88840	0.1599959	0.1605449	0.1546408	0.1648019
LITHIUM	670.784	Radial	46.90135	0.06277055	0.06561379	0.05977314	0.06292471
SELENIUM	196.090	Axial	-0.7696829	-0.009402412	-0.009545566	-0.01363931	-0.005022362
SILVER	328.068	Axial	-8.50538	0.002764401	0.002164394	0.002713668	0.003415141
ALUMINUM	308.215	Radial	6582.763	110.0743	109.5150	109.6279	111.0801
ANTIMONY	206.833	Axial	1.043376	0.005850184	0.01236837	0.003844880	0.001337299
BERYLLIUM	313.042	Radial	88.40094	0.004924401	0.004786439	0.005029498	0.004957267
CALCIUM	373.690	Radial	31630.12	305.4208	304.2278	305.0790	306.9556
CERIUM	535.353	Radial	42.62925	0.3092631	0.2889394	0.3334627	0.3053871
COPPER	324.754	Axial	375.5226	0.08408630	0.08363612	0.08361162	0.08501115
IRON	271.441	Radial	2410.140	110.2170	109.8838	110.0560	110.7112
LANTHANUM	333.749	Radial	76.79630	0.1401553	0.1414783	0.1416733	0.1373142
MAGNESIUM	279.079	Radial	1933.589	20.98219	20.89075	20.94273	21.11310
MANGANESE	257.610	Axial	53600.93	2.577191	2.557331	2.567449	2.606794
MOLYBDENUM	202.030	Axial	1.167978	0.002519213	0.002901889	0.001466602	0.003189148
NICKEL	231.604	Axial	70.31317	0.09089105	0.09169397	0.09025080	0.09072838
PHOSPHORUS	177.495	Axial	925.4815	4.576658	4.652581	4.483291	4.594103
POTASSIUM	766.490	Radial	1358.147	13.40062	13.38686	13.40769	13.40731
SILICON	251.611	Axial	21211.86	21.06098	21.01456	20.87348	21.29490
SODIUM	589.592	Radial	450.8265	1.334716	1.328729	1.345797	1.329621
STRONTIUM	421.552	Radial	7451.072	0.6842146	0.6850732	0.6802560	0.6873148
SULFUR	182.034	Axial	281.1772	4.864095	4.966289	4.781150	4.844846
THALLIUM	190.856	Axial	-0.5816496	-0.007432135	-0.004811596	-0.004192494	-0.01329231
TIN	189.989	Axial	4.396974	0.01516810	0.01637503	0.01140385	0.01772542
TITANIUM	334.941	Radial	1942.326	1.114132	1.117637	1.106298	1.118462
VANADIUM	292.402	Radial	148.6762	0.2378837	0.2411047	0.2374465	0.2350999
ZINC	206.200	Axial	1414.489	0.5569114	0.5570806	0.5400668	0.5735867

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-07 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:03 Sequence: 208

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5213.992	5133.694	5223.124	5285.159
YTTRIUM	360.073	Axial	51614.27	51389.72	51966.87	51486.20
YTTRIUM	360.073	Radial	4520.159	4561.169	4520.935	4478.372
INDIUM	230.606	Axial	966.1763	959.1662	970.8413	968.5215

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	19.73992	0.08507917	0.08636008	0.08681301	0.08206442
BARIUM	233.527	Axial	117920.1	19.77852	19.81363	19.91472	19.60720
BORON	249.678	Radial	612.1019	2.696116	2.680764	2.708390	2.699192
CADMIUM	228.802	Axial	16.11300	0.006777067	0.006871996	0.007329431	0.006129772
CHROMIUM	267.716	Axial	736.3321	0.3041458	0.3046188	0.3060495	0.3017692
COBALT	228.616	Axial	133.4057	0.1562726	0.1528758	0.1589137	0.1570283
LEAD	220.353	Axial	75.61083	0.2010645	0.2045625	0.1962025	0.2024286
LITHIUM	670.784	Radial	201.9521	0.2216548	0.2263849	0.2169807	0.2215987
SELENIUM	196.090	Axial	2.901543	0.01594543	0.01595083	0.01688687	0.01499860
SILVER	328.068	Axial	-5.42068	0.003451529	0.004665777	0.002841180	0.002847630
ALUMINUM	308.215	Radial	22929.94	374.4601	372.9377	374.9642	375.4783
ANTIMONY	206.833	Axial	2.534707	0.01516118	0.009160283	0.01190403	0.02441921
BERYLLIUM	313.042	Radial	285.1005	0.01609638	0.01623139	0.01597272	0.01608502
CALCIUM	373.690	Radial	132100.4	1246.436	1244.232	1244.081	1250.996
CERIUM	535.353	Radial	65.32144	0.5370505	0.5367280	0.5509521	0.5234714
COPPER	324.754	Axial	3326.348	0.7333183	0.7313019	0.7325054	0.7361476
IRON	271.441	Radial	3595.934	160.7173	160.6706	160.1712	161.3100
LANTHANUM	333.749	Radial	64.87605	0.1159301	0.1181519	0.1145141	0.1151242
MAGNESIUM	279.079	Radial	9674.860	102.4733	102.3147	102.1808	102.9244
MANGANESE	257.610	Axial	17058.15	0.7862219	0.7833064	0.7902290	0.7851305
MOLYBDENUM	202.030	Axial	20.78692	0.04452313	0.04428700	0.04169379	0.04758860
NICKEL	231.604	Axial	202.0563	0.2755712	0.2739611	0.2757254	0.2770270
PHOSPHORUS	177.495	Axial	3890.036	18.45330	18.40908	18.52759	18.42324
POTASSIUM	766.490	Radial	1706.689	16.38175	16.31760	16.35661	16.47105
SILICON	251.611	Axial	9101.439	8.946272	8.906868	8.904987	9.026959
SODIUM	818.326	Radial	184.0070	35.00915	35.06649	34.63990	35.32106
STRONTIUM	421.552	Radial	129466.8	11.62350	11.54629	11.65751	11.66670
SULFUR	182.034	Axial	14979.56	252.3898	253.6718	252.1553	251.3424
THALLIUM	190.856	Axial	-2.10156	-0.01834373	-0.02301126	-0.02039504	-0.01162489
TIN	189.989	Axial	8.617312	0.02940211	0.02855835	0.03020720	0.02944078
TITANIUM	334.941	Radial	49113.74	27.49218	27.38964	27.42139	27.66551
VANADIUM	292.402	Radial	682.0712	1.051715	1.052170	1.047811	1.055163
ZINC	206.200	Axial	1765.322	0.6772601	0.6868903	0.6728937	0.6719962

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-08 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:04 Sequence: 209

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4866.371	4886.776	4868.380	4843.958
YTTRIUM	360.073	Axial	50592.37	50897.44	50360.38	50519.29
YTTRIUM	360.073	Radial	4428.628	4427.576	4410.660	4447.649
INDIUM	230.606	Axial	1035.977	1037.471	1029.013	1041.446

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	16.17481	0.07374267	0.07562730	0.07245607	0.07314464
BARIUM	233.527	Axial	5736.168	1.032195	1.023362	1.032531	1.040692
BORON	249.678	Radial	5.617394	0.02755124	0.03225429	0.02083303	0.02956639
CADMIUM	228.802	Axial	15.40117	0.006977922	0.006550805	0.007126098	0.007256862
CHROMIUM	267.716	Axial	281.1055	0.1221098	0.1204954	0.1213957	0.1244382
COBALT	228.616	Axial	96.43675	0.1034295	0.1033179	0.1053555	0.1016152
LEAD	220.353	Axial	85.86629	0.2129858	0.2169374	0.2143627	0.2076574
LITHIUM	670.784	Radial	33.95127	0.04900179	0.04892807	0.04881090	0.04926640
SELENIUM	196.090	Axial	0.7000758	0.001198309	0.003704243	-0.001646286	0.001536971
SILVER	328.068	Axial	18.31403	0.008638811	0.007104565	0.008799857	0.01001201
ALUMINUM	308.215	Radial	4287.636	71.54194	71.55051	71.64537	71.42993
ANTIMONY	206.833	Axial	0.5923862	0.002905940	-0.005116298	0.001542106	0.01229201
BERYLLIUM	313.042	Radial	137.8502	0.007808077	0.007813852	0.007865998	0.007744381
CALCIUM	317.933	Radial	3409.596	14.16422	14.22070	14.16751	14.10444
CERIUM	535.353	Radial	39.48179	0.2742988	0.2099563	0.2963570	0.3165830
COPPER	324.754	Axial	823.8430	0.1857029	0.1860090	0.1864758	0.1846239
IRON	271.441	Radial	4668.945	213.0011	212.9369	213.6106	212.4558
LANTHANUM	333.749	Radial	42.18898	0.07740090	0.07855802	0.07751378	0.07613091
MAGNESIUM	279.079	Radial	554.2747	6.021074	6.025286	6.016225	6.021711
MANGANESE	257.610	Axial	107396.5	5.299062	5.273802	5.288004	5.335382
MOLYBDENUM	202.030	Axial	11.76507	0.02696535	0.02825329	0.02427927	0.02836349
NICKEL	231.604	Axial	160.9214	0.2054058	0.2037549	0.2059388	0.2065238
PHOSPHORUS	177.495	Axial	1012.442	5.139154	5.090862	5.163303	5.163298
POTASSIUM	766.490	Radial	738.7044	7.419680	7.453767	7.503964	7.301310
SILICON	251.611	Axial	23078.18	23.15066	22.84873	23.05578	23.54746
SODIUM	589.592	Radial	243.2429	0.7943892	0.8011392	0.8050175	0.7770110
STRONTIUM	421.552	Radial	1824.268	0.1668227	0.1678774	0.1667814	0.1658092
SULFUR	182.034	Axial	655.1780	11.74772	11.65440	11.79425	11.79451
THALLIUM	190.856	Axial	0.4422305	-0.0007850279	0.002446347	-0.001550396	-0.003251035
TIN	189.989	Axial	4.800715	0.01640752	0.01681935	0.01728420	0.01511901
TITANIUM	334.941	Radial	1839.846	1.052697	1.054569	1.051501	1.052021
VANADIUM	292.402	Radial	141.6486	0.2262751	0.2293587	0.2259741	0.2234926
ZINC	206.200	Axial	3412.224	1.465757	1.463352	1.439424	1.494496

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835568-01 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:06 Sequence: 210

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5005.959	4997.380	4986.903	5033.593
YTTRIUM	360.073	Axial	50922.30	51000.98	50858.24	50907.69
YTTRIUM	360.073	Radial	4377.548	4394.220	4393.899	4344.525
INDIUM	230.606	Axial	1020.742	1020.698	1022.438	1019.091

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.761135	0.01566848	0.01483640	0.01855966	0.01360938
BARIUM	233.527	Axial	2434.675	0.4267348	0.4284180	0.4266120	0.4251745
BORON	249.678	Radial	6.124941	0.03014987	0.02742031	0.03655736	0.02647193
CADMIUM	228.802	Axial	7.058310	0.002192425	0.001938076	0.001637066	0.003002133
CHROMIUM	267.716	Axial	191.7320	0.07965364	0.08084869	0.07977943	0.07833278
COBALT	228.616	Axial	40.14085	0.04024869	0.03793470	0.04048330	0.04232806
LEAD	220.353	Axial	63.72759	0.1602577	0.1647467	0.1573288	0.1586977
LITHIUM	670.784	Radial	33.20445	0.04862889	0.04821834	0.04770576	0.04996257
SELENIUM	196.090	Axial	0.6613925	0.0007658041	0.003823642	-0.006668607	0.005142377
SILVER	328.068	Axial	-26.5996	-0.001185542	-0.001121705	-0.001517830	-0.0009170925
ALUMINUM	308.215	Radial	4177.274	70.51401	70.72037	70.53159	70.29006
ANTIMONY	206.833	Axial	0.09924867	-0.0005502431	0.002156003	0.005017637	-0.008824370
BERYLLIUM	313.042	Radial	57.09603	0.003116076	0.003100743	0.003028711	0.003218773
CALCIUM	373.690	Radial	111673.0	1087.988	1090.714	1089.531	1083.718
CERIUM	535.353	Radial	34.64313	0.2267037	0.2248458	0.2566143	0.1986511
COPPER	324.754	Axial	204.8673	0.04629526	0.04623738	0.04573657	0.04691182
IRON	271.441	Radial	1507.619	69.54954	69.51207	69.84815	69.28840
LANTHANUM	333.749	Radial	52.55158	0.09720463	0.09724715	0.09336712	0.1009996
MAGNESIUM	279.079	Radial	4142.207	45.31824	45.35014	45.42745	45.17714
MANGANESE	257.610	Axial	56507.05	2.710753	2.731850	2.702742	2.697667
MOLYBDENUM	202.030	Axial	0.9588031	0.002036124	0.001777404	0.002418836	0.001912131
NICKEL	231.604	Axial	54.56184	0.07251783	0.07490858	0.07082861	0.07181630
PHOSPHORUS	177.495	Axial	440.9184	2.170185	2.130800	2.195795	2.183960
POTASSIUM	766.490	Radial	807.9069	8.174385	8.164610	8.167951	8.190593
SILICON	251.611	Axial	23322.04	23.24305	23.35486	23.39359	22.98069
SODIUM	589.592	Radial	521.0723	1.529261	1.533456	1.525314	1.529014
STRONTIUM	421.552	Radial	6097.015	0.5648479	0.5705636	0.5662030	0.5577771
SULFUR	182.034	Axial	277.4177	4.786325	4.730763	4.817869	4.810343
THALLIUM	190.856	Axial	0.3990858	-0.001035050	-0.003102257	0.006284161	-0.006287055
TIN	189.989	Axial	3.248364	0.01200160	0.01336238	0.008725582	0.01391684
TITANIUM	334.941	Radial	823.1128	0.4773300	0.4813858	0.4763612	0.4742429
VANADIUM	292.402	Radial	84.55956	0.1383463	0.1392323	0.1341997	0.1416067
ZINC	206.200	Axial	1026.830	0.3870055	0.3900873	0.3918324	0.3790967

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835568-02 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:08 Sequence: 211

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4972.401	4932.161	4993.513	4991.530
YTTRIUM	360.073	Axial	51369.34	50794.71	51606.00	51707.29
YTTRIUM	360.073	Radial	4392.519	4366.853	4383.622	4427.083
INDIUM	230.606	Axial	1030.334	1022.823	1028.960	1039.219

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	7.370291	0.02868512	0.03409900	0.03308276	0.01887359
BARIUM	233.527	Axial	5402.626	0.9515211	0.9479119	0.9496479	0.9570036
BORON	249.678	Radial	3.454356	0.01799486	0.01852342	0.02341104	0.01205012
CADMIUM	228.802	Axial	6.076027	0.001683514	0.001967541	0.001458036	0.001624966
CHROMIUM	267.716	Axial	294.9612	0.1254964	0.1258343	0.1245558	0.1260992
COBALT	228.616	Axial	61.40805	0.06405230	0.05944723	0.06546020	0.06724946
LEAD	220.353	Axial	65.45888	0.1630985	0.1634916	0.1650087	0.1607953
LITHIUM	670.784	Radial	55.39566	0.07207530	0.07213038	0.07301278	0.07108275
SILVER	328.068	Axial	-10.7310	0.002288428	0.001059428	0.002786792	0.003019065
ALUMINUM	308.215	Radial	6895.143	115.9371	115.8328	116.2352	115.7434
ANTIMONY	206.833	Axial	1.192133	0.006896440	0.01051031	-0.004205630	0.01438464
BERYLLIUM	313.042	Radial	99.78747	0.005626759	0.005849945	0.005567064	0.005463268
CALCIUM	373.690	Radial	43968.05	426.9333	429.3453	426.7891	424.6656
CERIUM	535.353	Radial	52.78499	0.4215102	0.4248313	0.4015924	0.4381069
COPPER	324.754	Axial	353.6063	0.07881849	0.07862150	0.07910267	0.07873130
IRON	271.441	Radial	2953.252	135.8242	136.6242	135.9982	134.8502
LANTHANUM	333.749	Radial	81.59217	0.1496599	0.1506086	0.1483451	0.1500260
MAGNESIUM	279.079	Radial	2652.466	28.93311	29.10718	28.96664	28.72551
MANGANESE	257.610	Axial	83897.66	4.051362	4.029115	4.065202	4.059770
MOLYBDENUM	202.030	Axial	1.283429	0.002783825	0.003477099	0.003315830	0.001558546
NICKEL	231.604	Axial	76.49557	0.09963594	0.09930658	0.1003007	0.09930049
PHOSPHORUS	177.495	Axial	933.4125	4.636060	4.661071	4.594047	4.653062
POTASSIUM	766.490	Radial	1586.682	15.68628	15.69387	15.72225	15.64270
SELENIUM	196.090	Axial	0.5271186	-0.0001561149	-0.001341002	0.0007292035	0.0001434538
SILICON	251.611	Axial	23355.93	23.07481	23.20344	22.76963	23.25135
SODIUM	589.592	Radial	526.8298	1.539669	1.550989	1.533616	1.534403
STRONTIUM	421.552	Radial	10440.35	0.9642079	0.9635975	0.9605446	0.9684815
SULFUR	182.034	Axial	173.3107	2.979481	3.003910	2.968062	2.966471
THALLIUM	190.856	Axial	-0.9925296	-0.01017109	-0.01140218	-0.01170106	-0.007410023
TIN	189.989	Axial	3.116917	0.01152568	0.009597210	0.01579411	0.009185711
TITANIUM	334.941	Radial	1577.117	0.9100233	0.9142256	0.9077987	0.9080456
VANADIUM	292.402	Radial	166.9882	0.2681377	0.2662554	0.2695881	0.2685696
ZINC	206.200	Axial	863.6252	0.3186212	0.3189290	0.3119807	0.3249539

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835568-03 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:10 Sequence: 212

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4955.482	4892.866	4973.939	4999.643
YTTRIUM	360.073	Axial	51150.01	50518.24	51298.07	51633.74
YTTRIUM	360.073	Radial	4438.518	4433.641	4445.881	4436.031
INDIUM	230.606	Axial	1030.066	1014.546	1042.926	1032.727

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	7.554096	0.02965836	0.02509869	0.02680224	0.03707415
BARIUM	233.527	Axial	4963.794	0.8773115	0.8732300	0.8754709	0.8832336
BORON	249.678	Radial	4.696857	0.02338452	0.02724573	0.01958929	0.02331853
CADMIUM	228.802	Axial	7.669102	0.002565129	0.001829839	0.002923400	0.002942149
CHROMIUM	267.716	Axial	304.0990	0.1299533	0.1290480	0.1306799	0.1301321
COBALT	228.616	Axial	64.30709	0.06740581	0.06797070	0.06584628	0.06840045
LEAD	220.353	Axial	133.4903	0.3333626	0.3306876	0.3331641	0.3362362
LITHIUM	670.784	Radial	49.17477	0.06492427	0.06966002	0.06525356	0.05985923
SILVER	328.068	Axial	-0.8065239	0.004438076	0.003972038	0.005104179	0.004238011
ALUMINUM	308.215	Radial	6345.540	105.5986	105.9563	105.0895	105.7499
ANTIMONY	206.833	Axial	0.8710960	0.004737994	0.007746255	0.007064923	-0.0005971980
BERYLLIUM	313.042	Radial	111.0322	0.006222166	0.006306109	0.006275361	0.006085029
CALCIUM	373.690	Radial	30306.48	291.2283	292.5546	290.9403	290.1901
CERIUM	535.353	Radial	50.57832	0.3920045	0.3409594	0.4447491	0.3903050
COPPER	324.754	Axial	535.8289	0.1196593	0.1198374	0.1180857	0.1210548
IRON	271.441	Radial	3647.859	166.0365	166.1584	165.7960	166.1552
LANTHANUM	333.749	Radial	63.14915	0.1149430	0.1178532	0.1121015	0.1148743
MAGNESIUM	279.079	Radial	1983.398	21.41815	21.47615	21.32952	21.44878
MANGANESE	257.610	Axial	59620.49	2.889118	2.882974	2.889024	2.895357
MOLYBDENUM	202.030	Axial	1.947629	0.004305722	0.006177354	0.004474778	0.002265033
NICKEL	231.604	Axial	90.44457	0.1173221	0.1172340	0.1177905	0.1169416
PHOSPHORUS	177.495	Axial	752.5282	3.748744	3.783815	3.734647	3.727770
POTASSIUM	766.490	Radial	1114.405	11.00261	10.92829	11.08844	10.99111
SELENIUM	196.090	Axial	-0.05019007	-0.004295597	-0.002519247	-0.009052546	-0.001314997
SILICON	251.611	Axial	23587.41	23.40315	23.46656	23.29774	23.44516
SODIUM	589.592	Radial	832.2851	2.314319	2.306454	2.302305	2.334199
STRONTIUM	421.552	Radial	6487.141	0.5927831	0.6010824	0.5907053	0.5865615
SULFUR	182.034	Axial	201.5635	3.490997	3.512184	3.490867	3.469940
THALLIUM	190.856	Axial	-0.1939781	-0.004873937	0.002892279	-0.009242835	-0.008271255
TIN	189.989	Axial	5.724288	0.01917589	0.01569028	0.02171551	0.02012187
TITANIUM	334.941	Radial	1516.557	0.8660831	0.8746033	0.8601448	0.8635011
VANADIUM	292.402	Radial	151.2434	0.2407830	0.2397198	0.2396709	0.2429583
ZINC	206.200	Axial	1806.070	0.7335153	0.7390997	0.7347595	0.7266868

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/17/25 12:11 Sequence: 213 Standard ID: 25C17425

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4533.551	4508.912	4518.106	4573.635
YTTRIUM	360.073	Axial	47593.86	47487.59	47286.89	48007.10
YTTRIUM	360.073	Radial	4200.926	4186.741	4218.483	4197.553
INDIUM	230.606	Axial	1055.483	1055.321	1051.410	1059.718

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	565.0977	10.02114	9.993916	10.02694	10.04255
ANTIMONY	206.833	Axial	72.50059	0.5407807	0.5383211	0.5321357	0.5518854
ARSENIC	189.042	Axial	201.0375	1.077934	1.082433	1.069812	1.081556
BARIUM	233.527	Axial	2621.918	0.5071542	0.5051519	0.5075126	0.5087979
BERYLLIUM	313.042	Radial	3341.979	0.2061453	0.2059842	0.2061282	0.2063233
BORON	249.678	Radial	216.4011	1.027036	1.028140	1.026801	1.026168
CADMIUM	228.802	Axial	887.6022	0.5318901	0.5308518	0.5324155	0.5324030
CALCIUM	373.690	Radial	5131.269	52.11323	51.85364	52.35951	52.12655
CHROMIUM	267.716	Axial	2095.046	1.004034	0.9995231	1.005784	1.006794
COBALT	228.616	Axial	899.1921	0.9950837	0.9847046	0.9944049	1.006141
COPPER	324.754	Axial	4500.429	1.075685	1.070155	1.075968	1.080932
IRON	259.940	Radial	2587.189	10.23103	10.11627	10.16409	10.41272
LEAD	220.353	Axial	215.3238	0.5251793	0.5201425	0.5251113	0.5302841
LITHIUM	670.784	Radial	848.5844	0.9555890	0.9540890	0.9620774	0.9506005
MAGNESIUM	279.079	Radial	893.3350	10.20866	10.18416	10.19563	10.24618
MANGANESE	257.610	Axial	19046.00	1.009367	1.005462	1.010076	1.012565
MOLYBDENUM	202.030	Axial	107.0768	0.2643836	0.2639981	0.2640484	0.2651043
NICKEL	231.604	Axial	815.6133	1.010729	1.007549	1.012763	1.011876
PHOSPHORUS	177.495	Axial	202.0304	1.093312	1.085435	1.095154	1.099348
POTASSIUM	766.490	Radial	5021.862	51.15512	50.97715	51.42771	51.06051
SELENIUM	196.090	Axial	139.6564	1.096590	1.109959	1.094746	1.085067
SILICON	251.611	Axial	2100.345	2.235390	2.223488	2.234555	2.248127
SILVER	328.068	Axial	2251.650	0.5299590	0.5276660	0.5308666	0.5313445
SODIUM	818.326	Radial	251.0365	50.24782	49.36473	48.95622	52.42250
STRONTIUM	421.552	Radial	10469.44	1.011023	1.014599	1.013090	1.005381
SULFUR	182.034	Axial	292.0699	5.577864	5.604248	5.558357	5.570987
THALLIUM	190.856	Axial	166.0734	1.057248	1.060363	1.061099	1.050282
TIN	189.989	Axial	180.4647	0.5211467	0.5210945	0.5221119	0.5202336
TITANIUM	334.941	Radial	1704.907	1.028403	1.031047	1.029258	1.024904
VANADIUM	292.402	Radial	622.3855	1.032679	1.034573	1.032712	1.030753
ZINC	206.200	Axial	2321.348	1.054387	1.054598	1.052706	1.055857
CERIUM	535.353	Radial	17.28649	0.04652924	0.04624724	0.02922124	0.06411925
LANTHANUM	333.749	Radial	-7.93874	-0.01377364	-0.01527829	-0.01063245	-0.01541017

Sample ID: CCB Units: mg/l
Analyzed: 03/17/25 12:13 Sequence: 214

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4400.999	4371.847	4374.456	4456.694
YTTRIUM	360.073	Axial	47084.40	46873.24	46761.59	47618.36
YTTRIUM	360.073	Radial	4366.560	4373.708	4348.975	4376.998
INDIUM	230.606	Axial	1054.243	1046.576	1051.716	1064.437

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-3.72991	0.03116663	0.04841618	0.03003519	0.01504853
ANTIMONY	206.833	Axial	0.05675584	-0.0007620955	0.007382168	-0.001637307	-0.008031147
ARSENIC	189.042	Axial	1.292375	-0.0004306670	0.005036316	-0.005720534	-0.0006077823
BARIUM	233.527	Axial	-5.51312	0.0003489514	-0.0001735591	0.0004105946	0.0008098186
BERYLLIUM	313.042	Radial	1.301598	-0.0001910776	-0.0001833695	-0.0001525625	-0.0002373009
BORON	249.678	Radial	0.004613815	0.002350736	0.002357275	0.001770616	0.002924318
CADMIUM	228.802	Axial	3.448083	0.0004861679	0.0004433753	0.0003232820	0.0006918463
CALCIUM	317.933	Radial	21.25183	0.01209887	0.01470814	0.01044813	0.01114035
CERIUM	535.353	Radial	15.98710	0.02505607	-0.02229509	0.07170688	0.02575642
CHROMIUM	267.716	Axial	10.00860	0.001065887	0.0003743191	0.0007374510	0.002085891
COBALT	228.616	Axial	5.266804	-0.00009366228	0.0003319395	-0.001290455	0.0006775281
COPPER	324.754	Axial	-3.16278	-0.0002154815	0.00003024900	-0.0009907097	0.0003140161
IRON	259.940	Radial	1.944761	-0.007072420	-0.008156355	-0.006711838	-0.006349068
LANTHANUM	333.749	Radial	-1.53994	-0.001491835	0.001134791	-0.001535746	-0.004074549
LEAD	220.353	Axial	0.5602569	0.0007078920	0.0003948253	0.004362108	-0.002633258
LITHIUM	670.784	Radial	-10.1589	0.002377289	-0.0005390972	-0.0003994971	0.008070462
MAGNESIUM	279.079	Radial	-2.95053	-0.001371624	0.006803875	0.006833335	-0.01775208
MANGANESE	257.610	Axial	-4.30108	0.0005807804	0.0006206941	0.0004801154	0.0006415316
MOLYBDENUM	202.030	Axial	-0.2034220	-0.0006151965	0.002999344	-0.002457794	-0.002387140
NICKEL	231.604	Axial	-1.23167	0.001270468	0.001446451	0.0008854594	0.001479493
PHOSPHORUS	177.495	Axial	1.855953	0.0009857113	0.0002602464	0.002111308	0.0005855798
POTASSIUM	766.490	Radial	-17.9251	0.1526266	0.1659629	0.2156759	0.07624109
SELENIUM	196.090	Axial	-0.08480645	-0.004642003	-0.008305917	-0.003318079	-0.002302013
SILICON	251.611	Axial	10.94519	0.007163992	0.007224131	0.006296419	0.007971427
SILVER	328.068	Axial	-22.5356	-0.0007011001	-0.000005245293	-0.001529619	-0.0005684355
SODIUM	589.592	Radial	-5.88329	0.1492586	0.1440086	0.1500674	0.1536998
STRONTIUM	421.552	Radial	3.981740	0.00002428470	-0.0003213974	0.0001510225	0.0002432290
SULFUR	182.034	Axial	4.827200	0.01288143	0.01234296	0.008291248	0.01801007
THALLIUM	190.856	Axial	-0.06848299	-0.004083675	-0.005665039	0.002769100	-0.009355084
TIN	189.989	Axial	-0.3742959	0.001272888	0.002332412	0.001702102	-0.0002158502
TITANIUM	334.941	Radial	-1.46478	0.0007770169	0.001287260	0.001486921	-0.0004431305
VANADIUM	292.402	Radial	-0.1919613	0.003938400	0.006639413	0.002965623	0.002210165
ZINC	206.200	Axial	126.9840	0.003681970	0.004411999	0.003955831	0.002678080

Sample ID: CCV Units: mg/l
Analyzed: 03/17/25 12:28 Sequence: 223 Standard ID: 25C17425

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4515.722	4522.991	4530.192	4493.982
YTTRIUM	360.073	Axial	47629.17	47351.87	47749.57	47786.07
YTTRIUM	360.073	Radial	4248.381	4245.093	4254.615	4245.434
INDIUM	230.606	Axial	1055.119	1047.948	1064.676	1052.733

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	570.3692	10.00184	9.980831	10.01280	10.01190
ANTIMONY	206.833	Axial	72.31145	0.5415606	0.5379878	0.5397993	0.5468945
ARSENIC	189.042	Axial	202.0739	1.087871	1.070890	1.093727	1.098996
BARIUM	233.527	Axial	2622.401	0.5092537	0.5077949	0.5099784	0.5099877
BERYLLIUM	313.042	Radial	3381.820	0.2062728	0.2066316	0.2065490	0.2056379
BORON	249.678	Radial	218.5206	1.025510	1.021572	1.029876	1.025082
CADMIUM	228.802	Axial	887.3575	0.5338599	0.5317725	0.5324965	0.5373106
CALCIUM	373.690	Radial	5184.122	52.06251	52.33750	52.12450	51.72554
CHROMIUM	267.716	Axial	2095.675	1.008337	0.9977751	1.014462	1.012775
COBALT	228.616	Axial	894.8480	0.9906375	0.9890511	0.9820457	1.000816
COPPER	324.754	Axial	4522.182	1.080099	1.079748	1.080756	1.079793
IRON	259.940	Radial	2582.406	10.09774	10.13023	10.23690	9.926095
LEAD	220.353	Axial	211.3253	0.5156088	0.5156560	0.5131294	0.5180410
LITHIUM	670.784	Radial	888.6654	0.9890857	0.9992656	0.9926358	0.9753558
MAGNESIUM	279.079	Radial	899.0685	10.15953	10.13425	10.20082	10.14353
MANGANESE	257.610	Axial	19029.94	1.012526	1.003905	1.014107	1.019566
MOLYBDENUM	202.030	Axial	107.5452	0.2665980	0.2665962	0.2646321	0.2685657
NICKEL	231.604	Axial	814.5332	1.009752	1.008588	1.006485	1.014183
PHOSPHORUS	177.495	Axial	201.6948	1.095866	1.079934	1.105196	1.102469
POTASSIUM	766.490	Radial	5069.116	51.06094	51.06161	51.02810	51.09310
SELENIUM	196.090	Axial	139.5749	1.100269	1.078827	1.104497	1.117485
SILICON	251.611	Axial	2121.019	2.255773	2.242637	2.267945	2.256738
SILVER	328.068	Axial	2247.966	0.5287199	0.5306698	0.5267959	0.5286939
SODIUM	818.326	Radial	255.9850	50.64408	50.18618	50.83707	50.90899
STRONTIUM	421.552	Radial	10760.35	1.027523	1.034741	1.016776	1.031053
SULFUR	182.034	Axial	288.6109	5.532883	5.426035	5.609459	5.563157
THALLIUM	190.856	Axial	165.8455	1.056170	1.053967	1.048122	1.066422
TIN	189.989	Axial	182.5063	0.5271508	0.5197940	0.5358235	0.5258348
TITANIUM	334.941	Radial	1701.423	1.014859	1.017148	1.013095	1.014335
VANADIUM	292.402	Radial	623.2172	1.022551	1.025997	1.019528	1.022130
ZINC	206.200	Axial	2333.362	1.064604	1.052917	1.063054	1.077841
CERIUM	535.353	Radial	10.61142	-0.03027381	-0.04610193	-0.005405346	-0.03931414
LANTHANUM	333.749	Radial	-5.64833	-0.009294688	-0.01043409	-0.007392280	-0.01005769

Sample ID: CCB Units: mg/l
Analyzed: 03/17/25 12:30 Sequence: 224

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4419.985	4356.295	4435.623	4468.038
YTTRIUM	360.073	Axial	47494.11	46845.67	47521.11	48115.55
YTTRIUM	360.073	Radial	4371.781	4327.872	4405.231	4382.239
INDIUM	230.606	Axial	1069.905	1052.829	1074.424	1082.462

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.03922	0.02598908	0.01735869	0.02245482	0.03815374
ANTIMONY	206.833	Axial	0.7108279	0.004112553	-0.006499586	0.002808845	0.01602840
ARSENIC	189.042	Axial	1.993661	0.003434680	0.004359503	0.006092410	-0.0001478733
BARIUM	233.527	Axial	-4.25449	0.0006078370	0.0008068628	0.0008241861	0.0001924619
BERYLLIUM	313.042	Radial	3.696174	-0.00004837886	0.0001176716	-0.00008753853	-0.0001752697
BORON	249.678	Radial	0.6671577	0.005385583	0.01158577	0.009231619	-0.004660637
CADMIUM	228.802	Axial	1.921059	-0.0004672836	-0.001127016	0.0001351072	-0.0004099424
CALCIUM	317.933	Radial	22.25163	0.01622098	0.01808015	0.02277989	0.007802905
CERIUM	535.353	Radial	9.827415	-0.04223372	-0.07798846	-0.05819529	0.009482581
CHROMIUM	267.716	Axial	12.29611	0.002190257	0.003757764	0.001033161	0.001779845
COBALT	228.616	Axial	4.581347	-0.0009314250	-0.001004121	-0.001228643	-0.0005615116
COPPER	324.754	Axial	2.329169	0.001108390	0.0009788177	0.001168430	0.001177924
IRON	259.940	Radial	2.643557	-0.004404259	-0.001393299	-0.007759967	-0.004059510
LANTHANUM	333.749	Radial	-0.3863613	0.0006009195	-0.003877840	-0.0001642451	0.005844844
LEAD	220.353	Axial	-1.72267	-0.004832462	-0.005263011	-0.006108195	-0.003126181
LITHIUM	670.784	Radial	-8.24946	0.004434174	0.005034845	0.006084604	0.002183073
MAGNESIUM	279.079	Radial	-2.33065	0.005305413	-0.01826588	0.02269858	0.01148354
MANGANESE	257.610	Axial	-2.55668	0.0006775003	0.0007207667	0.0007717563	0.0005399781
MOLYBDENUM	202.030	Axial	-0.8590679	-0.002279917	-0.001363450	-0.002998888	-0.002477411
NICKEL	231.604	Axial	-1.64429	0.0007869004	0.0004245366	0.0007714548	0.001164710
PHOSPHORUS	177.495	Axial	0.8024971	-0.004978646	-0.006616093	-0.007140726	-0.001179119
POTASSIUM	766.490	Radial	-17.3345	0.1583980	0.1485722	0.1600704	0.1665514
SELENIUM	196.090	Axial	0.7103361	0.001846339	0.007435439	0.0003693054	-0.002265726
SILICON	251.611	Axial	15.93939	0.01242181	0.01431219	0.01246898	0.01048427
SILVER	328.068	Axial	-26.7788	-0.001656353	-0.003490250	-0.0002249402	-0.001253868
SODIUM	589.592	Radial	-13.3345	0.1297576	0.1362724	0.1340038	0.1189967
STRONTIUM	421.552	Radial	1.794580	-0.0001803063	-0.0003524860	-0.00005249124	-0.0001359415
SULFUR	182.034	Axial	4.370328	0.003407747	-0.001642940	0.01735772	-0.005491539
THALLIUM	190.856	Axial	0.3105153	-0.001709014	-0.0008918167	-0.005349262	0.001114037
TIN	189.989	Axial	0.8127076	0.004638495	0.003674317	0.004652691	0.005588477
TITANIUM	334.941	Radial	-3.19170	-0.0002204339	0.0007898538	0.0006999097	-0.002151065
VANADIUM	292.402	Radial	-0.4854862	0.003478600	0.003810410	0.001696601	0.004928790
ZINC	206.200	Axial	126.6644	0.003252786	0.003697426	0.003335289	0.002725643

Sample ID: BLANK DF: 1x Batch: WG2469953 Units: mg/kg
Analyzed: 03/17/25 12:31 Sequence: 225

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4377.059	4257.577	4406.776	4466.826
YTTRIUM	360.073	Axial	47072.28	46157.50	47487.67	47571.69
YTTRIUM	360.073	Radial	4441.564	4461.909	4431.809	4430.973
INDIUM	230.606	Axial	1075.521	1045.312	1081.263	1099.989

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.57169	0.01816593	0.05181790	-0.0007808914	0.003460785
ANTIMONY	206.833	Axial	0.7738316	0.004765411	0.006900614	0.001451460	0.005944159
ARSENIC	189.042	Axial	1.159210	-0.001139963	-0.001170732	-0.001395431	-0.0008537251
BARIUM	233.527	Axial	-6.34908	0.0001790351	0.0001494052	0.0003053307	0.00008236929
BERYLLIUM	313.042	Radial	2.562439	-0.0001188890	-0.00008644760	-0.0001009257	-0.0001692939
BORON	249.678	Radial	0.0003010456	0.002334592	0.001175170	0.008797158	-0.002968553
CADMIUM	228.802	Axial	1.848247	-0.0004883073	0.0001213577	-0.0007308140	-0.0008554656
CHROMIUM	267.716	Axial	11.00969	0.001590245	0.0008777012	0.002300607	0.001592426
COBALT	228.616	Axial	4.935601	-0.0005841288	-0.001872615	0.0006137248	-0.0004934957
COPPER	324.754	Axial	-3.24022	-0.0002229007	0.0005588784	0.0001971213	-0.001424702
IRON	259.940	Radial	5.448778	0.005924590	0.006861032	-0.0001649273	0.01107766
LEAD	220.353	Axial	-0.4278587	-0.001641678	0.002824690	-0.004574418	-0.003175307
LITHIUM	670.784	Radial	-10.0119	0.002724361	0.001657655	-0.001187403	0.007702831
MANGANESE	257.610	Axial	-8.50265	0.0003519182	0.0004915098	0.0004113681	0.0001528769
MOLYBDENUM	202.030	Axial	-0.8990566	-0.002400020	-0.001567151	-0.003220968	-0.002411940
NICKEL	231.604	Axial	-0.5544485	0.002112371	0.001384855	0.002492067	0.002460191
POTASSIUM	766.490	Radial	-17.9707	0.1549544	0.1750330	0.1312743	0.1585559
SELENIUM	196.090	Axial	0.09845858	-0.003116839	-0.003875316	0.003439674	-0.008914874
SILVER	328.068	Axial	-26.8115	-0.001704383	-0.001145979	-0.001995281	-0.001971889
SODIUM	589.592	Radial	-7.20312	0.1461673	0.1223246	0.1555225	0.1606549
THALLIUM	190.856	Axial	0.1478725	-0.002834717	-0.009426067	-0.0003766001	0.001298515
VANADIUM	292.402	Radial	-0.8705974	0.002887773	0.001337929	0.005360317	0.001965073
ZINC	206.200	Axial	114.6709	-0.002077466	-0.0006236418	-0.002538611	-0.003070144
CALCIUM	317.933	Radial	20.54835	0.007653133	0.007061411	0.003832591	0.01206540
CERIUM	535.353	Radial	6.917276	-0.07489955	-0.06902453	-0.1092532	-0.04642089
LANTHANUM	333.749	Radial	0.5059472	0.002227754	0.004699026	0.003187339	-0.001203101
MAGNESIUM	279.079	Radial	-1.53492	0.01444154	0.0003558852	0.01691681	0.02605192
PHOSPHORUS	177.495	Axial	2.753258	0.006118863	0.005990719	0.007727309	0.004638561
SILICON	251.611	Axial	19.68032	0.01655284	0.01269771	0.01659620	0.02036461
STRONTIUM	421.552	Radial	3.235241	-0.00004955053	-0.0004012967	0.0001449861	0.0001076590
SULFUR	182.034	Axial	7.327544	0.06352995	0.05935012	0.05437546	0.07686426
TIN	189.989	Axial	3.024611	0.01085876	0.009941067	0.01062766	0.01200755
TITANIUM	334.941	Radial	-3.29191	-0.0002494363	-0.0009837734	0.0009625963	-0.0007271318

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2469953 Units: mg/kg
Analyzed: 03/17/25 12:33 Sequence: 226

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4691.214	4595.995	4680.957	4796.692
YTTRIUM	360.073	Axial	50006.13	49087.96	49983.36	50947.07
YTTRIUM	360.073	Radial	4383.077	4404.986	4404.402	4339.844
INDIUM	230.606	Axial	1116.798	1093.063	1121.126	1136.204

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	615.6343	10.45962	10.38924	10.50585	10.48377
ANTIMONY	206.833	Axial	153.1376	1.105414	1.126347	1.088389	1.101505
ARSENIC	189.042	Axial	213.6996	1.107754	1.122015	1.109473	1.091775
BARIUM	233.527	Axial	5536.205	1.033389	1.034370	1.032638	1.033160
BERYLLIUM	313.042	Radial	17515.11	1.036576	1.038510	1.034842	1.036375
BORON	249.678	Radial	223.9181	1.018622	1.012683	1.013179	1.030004
CADMIUM	228.802	Axial	1901.501	1.103020	1.109722	1.101585	1.097754
CHROMIUM	267.716	Axial	2198.231	1.018151	1.013599	1.026457	1.014396
COBALT	228.616	Axial	940.1066	0.9831668	0.9818814	0.9820597	0.9855593
COPPER	324.754	Axial	4901.802	1.115173	1.124296	1.108740	1.112484
IRON	259.940	Radial	2736.637	10.37271	10.39912	10.29559	10.42342
LEAD	220.353	Axial	451.7566	1.042172	1.054632	1.038451	1.033432
LITHIUM	670.784	Radial	915.8219	0.9880398	0.9923363	0.9762890	0.9954941
MANGANESE	257.610	Axial	19909.63	1.019749	1.021097	1.025471	1.012679
MOLYBDENUM	202.030	Axial	478.8576	1.143071	1.149948	1.141145	1.138121
NICKEL	231.604	Axial	866.6000	1.015026	1.022086	1.013857	1.009136
POTASSIUM	766.490	Radial	1043.983	10.45491	10.39932	10.43936	10.52606
SELENIUM	196.090	Axial	143.6504	1.090274	1.114549	1.085841	1.070431
SILVER	328.068	Axial	846.8222	0.1926664	0.1924953	0.1937016	0.1918023
SODIUM	589.592	Radial	4020.298	10.67987	10.65331	10.64920	10.73709
THALLIUM	190.856	Axial	179.6039	1.080674	1.079125	1.084355	1.078541
VANADIUM	292.402	Radial	650.3628	1.034252	1.031834	1.035552	1.035371
ZINC	206.200	Axial	2503.712	1.101803	1.120410	1.105850	1.079149
CALCIUM	317.933	Radial	2449.213	10.25895	10.27205	10.23085	10.27395
CERIUM	535.353	Radial	10.59764	-0.03390314	-0.04812421	-0.04903807	-0.004547143
LANTHANUM	333.749	Radial	-12.9038	-0.02218134	-0.02110433	-0.02423672	-0.02120297
MAGNESIUM	279.079	Radial	931.8234	10.20623	10.20567	10.15274	10.26028
PHOSPHORUS	177.495	Axial	210.7065	1.102230	1.106781	1.116745	1.083166
SILICON	251.611	Axial	1031.990	1.042956	1.045789	1.043589	1.039489
STRONTIUM	421.552	Radial	11298.63	1.045774	1.040512	1.049530	1.047280
SULFUR	182.034	Axial	592.5614	11.01797	11.09212	11.08891	10.87288
TIN	189.989	Axial	396.3426	1.079314	1.087831	1.081073	1.069038
TITANIUM	334.941	Radial	1814.626	1.049101	1.044829	1.045788	1.056686

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-06 DF: 1x Batch: WG2469953 Units: mg/kg
Analyzed: 03/17/25 12:35 Sequence: 227

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5111.196	5046.252	5119.826	5167.510
YTTRIUM	360.073	Axial	51947.57	51403.89	52328.43	52110.39
YTTRIUM	360.073	Radial	4506.203	4573.642	4509.975	4434.990
INDIUM	230.606	Axial	1024.107	1015.929	1025.816	1030.577

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5001.778	82.01592	81.11232	82.07544	82.86001
ANTIMONY	206.833	Axial	0.9824621	0.005278590	0.007167609	0.003430898	0.005237263
ARSENIC	189.042	Axial	6.350789	0.02276710	0.01630968	0.02994311	0.02204850
BARIUM	233.527	Axial	6930.158	1.187001	1.177740	1.188968	1.194294
BERYLLIUM	313.042	Radial	88.29060	0.004815631	0.004754114	0.004859617	0.004833161
BORON	249.678	Radial	23.62492	0.1066335	0.1019683	0.1130346	0.1048976
CADMIUM	228.802	Axial	24.89703	0.01162703	0.01195944	0.01088552	0.01203612
CHROMIUM	267.716	Axial	269.7870	0.1112426	0.1113239	0.1122375	0.1101665
COBALT	228.616	Axial	51.69841	0.05336264	0.05511403	0.05159340	0.05338049
COPPER	324.754	Axial	450.9573	0.09925227	0.09859390	0.09993936	0.09922354
IRON	271.441	Radial	2933.520	131.5163	130.5831	131.6462	132.3197
LEAD	220.353	Axial	121.1408	0.3042265	0.3009613	0.3070341	0.3046842
LITHIUM	670.784	Radial	64.50723	0.08001499	0.08031469	0.08049110	0.07923918
MANGANESE	257.610	Axial	83749.64	3.934484	3.918674	3.967849	3.916930
MOLYBDENUM	202.030	Axial	6.724312	0.01461629	0.01479471	0.01182597	0.01722818
NICKEL	231.604	Axial	122.4993	0.1588133	0.1583335	0.1576202	0.1604861
POTASSIUM	766.490	Radial	1492.155	14.40935	14.16793	14.37883	14.68129
SELENIUM	196.090	Axial	-0.06727953	-0.004394209	-0.002257015	-0.005216907	-0.005708705
SILVER	328.068	Axial	-36.3314	-0.003153477	-0.003686425	-0.003253431	-0.002520574
SODIUM	589.592	Radial	851.9362	2.332131	2.322821	2.328739	2.344832
THALLIUM	190.856	Axial	0.8660920	0.002047633	0.004816419	-0.0001875710	0.001514052
VANADIUM	292.402	Radial	113.2191	0.1787119	0.1719581	0.1808648	0.1833128
ZINC	206.200	Axial	4938.050	2.042019	2.066691	2.038213	2.021153
CALCIUM	373.690	Radial	160642.9	1520.567	1505.811	1520.252	1535.637
CERIUM	535.353	Radial	31.24531	0.1805833	0.1502726	0.1848695	0.2066078
LANTHANUM	333.749	Radial	50.59043	0.09098271	0.09083208	0.09038566	0.09173039
MAGNESIUM	279.079	Radial	10101.28	107.3267	106.5754	107.1091	108.2955
PHOSPHORUS	177.495	Axial	796.0324	3.845062	3.902853	3.826719	3.805613
SILICON	251.611	Axial	22082.55	21.57360	21.65373	21.46544	21.60162
STRONTIUM	421.552	Radial	21625.98	1.947465	1.927163	1.944330	1.970904
SULFUR	182.034	Axial	1704.917	29.22992	29.36715	29.27464	29.04797
TIN	189.989	Axial	4.411577	0.01539695	0.01160802	0.01638731	0.01819552
TITANIUM	334.941	Radial	2310.042	1.298690	1.288473	1.300229	1.307368

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1835560-06 Batch: WG2469953 Units: mg/kg
Analyzed: 03/17/25 12:37 Sequence: 228

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4972.981	4940.738	4965.679	5012.528
YTTRIUM	360.073	Axial	52261.55	52427.87	52256.30	52100.50
YTTRIUM	360.073	Radial	4396.953	4418.888	4362.636	4409.336
INDIUM	230.606	Axial	1123.845	1121.267	1123.463	1126.804

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	1102.669	18.60095	93.06085	92.94296	93.01050
ANTIMONY	206.833	Axial	1.501263	0.008985932	0.04600359	0.04205234	0.04673304
ARSENIC	189.042	Axial	3.826695	0.01121646	0.05014511	0.06600200	0.05209986
BARIUM	233.527	Axial	1500.364	0.2652618	1.322899	1.325450	1.330577
BERYLLIUM	313.042	Radial	22.89380	0.001081840	0.005852610	0.004614007	0.005760981
BORON	249.678	Radial	4.848853	0.02425310	0.1160047	0.09965046	0.1481414
CADMIUM	228.802	Axial	7.500313	0.002462650	0.01379257	0.01035332	0.01279385
CHROMIUM	267.716	Axial	66.55814	0.02529988	0.1200624	0.1297177	0.1297180
COBALT	228.616	Axial	13.80653	0.008474820	0.04618068	0.03986292	0.04107870
COPPER	324.754	Axial	109.6164	0.02440182	0.1189539	0.1199467	0.1271267
IRON	271.441	Radial	658.0198	30.19756	150.3060	151.9762	150.6813
LEAD	220.353	Axial	28.66301	0.06506500	0.3156578	0.3283751	0.3319420
LITHIUM	670.784	Radial	2.803112	0.01620755	0.08270274	0.07537877	0.08503169
MANGANESE	257.610	Axial	18378.23	0.8880106	4.429054	4.432719	4.458387
MOLYBDENUM	202.030	Axial	0.7922384	0.001676846	0.01006403	0.009231643	0.005857017
NICKEL	231.604	Axial	28.61273	0.03600258	0.1820550	0.1713866	0.1865972
POTASSIUM	766.490	Radial	267.7046	2.915632	14.81363	14.38387	14.53698
SELENIUM	196.090	Axial	0.5434838	-0.00004364634	-0.002499591	-0.01182387	0.01366877
SILVER	328.068	Axial	-31.1809	-0.002012096	-0.004799195	-0.01148309	-0.01389915
SODIUM	589.592	Radial	206.2345	0.7024082	3.497247	3.524458	3.514417
THALLIUM	190.856	Axial	0.4821811	-0.0007735698	-0.01160783	-0.001747227	0.001751507
VANADIUM	292.402	Radial	25.42861	0.04438548	0.2222388	0.2155505	0.2279928
ZINC	206.200	Axial	1211.849	0.4708452	2.348476	2.362655	2.351546
CALCIUM	373.690	Radial	36466.82	353.7398	1762.573	1776.417	1767.106
CERIUM	535.353	Radial	17.32408	0.03827456	0.3200137	0.3241212	-0.07001649
LANTHANUM	333.749	Radial	10.66150	0.02068774	0.1134325	0.1063426	0.09054110
MAGNESIUM	279.079	Radial	2325.960	25.34926	126.7144	127.0490	126.4755
PHOSPHORUS	177.495	Axial	178.1912	0.8772316	4.320763	4.431589	4.406122
SILICON	251.611	Axial	4375.007	4.24478	20.97334	21.21643	21.48194
STRONTIUM	421.552	Radial	4799.292	0.4426074	2.217153	2.215348	2.206609
SULFUR	182.034	Axial	356.6942	6.21953	30.98366	31.29791	31.01139
TIN	189.989	Axial	1.341052	0.005962374	0.03174380	0.02226856	0.03542324
TITANIUM	334.941	Radial	512.8863	0.2967338	1.485277	1.477710	1.488020

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1835560-06 Batch: WG2469953 Units: mg/kg
Analyzed: 03/17/25 12:38 Sequence: 229

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5086.185	4983.096	5145.918	5129.543
YTTRIUM	360.073	Axial	51894.57	51189.68	52216.71	52277.31
YTTRIUM	360.073	Radial	4458.889	4455.561	4455.937	4465.168
INDIUM	230.606	Axial	1014.964	1001.070	1021.889	1021.934

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5971.593	98.92708	98.92673	98.89351	98.96101
ANTIMONY	206.833	Axial	144.5698	0.9623414	0.9721925	0.9460847	0.9687471
ARSENIC	189.042	Axial	208.9308	0.9979916	0.9978472	0.9909113	1.005216
BARIUM	233.527	Axial	12549.54	2.159234	2.181936	2.141864	2.153902
BERYLLIUM	313.042	Radial	16711.17	0.9721664	0.9739474	0.9708723	0.9716796
BORON	249.678	Radial	236.1413	1.055815	1.052661	1.054783	1.060002
CADMIUM	228.802	Axial	1793.188	0.9592738	0.9732313	0.9464610	0.9581290
CHROMIUM	267.716	Axial	2464.483	1.053054	1.061775	1.041367	1.056019
COBALT	228.616	Axial	962.7408	1.108693	1.116984	1.097844	1.111251
COPPER	324.754	Axial	4875.867	1.068957	1.083255	1.060740	1.062877
IRON	271.441	Radial	3296.335	149.3462	149.4483	149.0784	149.5119
LEAD	220.353	Axial	533.5399	1.354441	1.368050	1.342449	1.352824
LITHIUM	670.784	Radial	1194.749	1.263271	1.277499	1.260732	1.251581
MANGANESE	257.610	Axial	108148.0	5.106225	5.177656	5.039763	5.101255
MOLYBDENUM	202.030	Axial	448.6563	0.9879147	1.005609	0.9689780	0.9891574
NICKEL	231.604	Axial	946.9842	1.219851	1.227944	1.209140	1.222470
POTASSIUM	766.490	Radial	2836.324	27.37397	27.31419	27.40501	27.40271
SELENIUM	196.090	Axial	136.7496	0.9566582	0.9675724	0.9505707	0.9518315
SILVER	328.068	Axial	845.2374	0.1854844	0.1861918	0.1848398	0.1854217
SODIUM	589.592	Radial	5113.660	13.31185	13.34664	13.32122	13.26768
THALLIUM	190.856	Axial	147.7056	0.9775292	0.9721572	0.9777824	0.9826481
VANADIUM	292.402	Radial	721.7834	1.127922	1.126460	1.128305	1.129001
ZINC	206.200	Axial	7764.981	3.261505	3.327803	3.202053	3.254659
CALCIUM	373.690	Radial	169697.7	1623.155	1620.594	1626.527	1622.345
CERIUM	535.353	Radial	30.87817	0.1798870	0.1710258	0.1988523	0.1697830
LANTHANUM	333.749	Radial	42.90018	0.07815649	0.08068609	0.07581117	0.07797221
MAGNESIUM	279.079	Radial	11527.54	123.7657	124.3349	123.6126	123.3496
PHOSPHORUS	177.495	Axial	1036.795	5.035487	5.081430	5.024606	5.000424
SILICON	251.611	Axial	26009.70	25.43843	25.73805	25.23993	25.33730
STRONTIUM	421.552	Radial	33347.46	3.034706	3.034519	3.018810	3.050789
SULFUR	182.034	Axial	2303.942	39.72435	39.92882	39.67947	39.56477
TIN	189.989	Axial	356.3442	1.067682	1.070747	1.065640	1.066659
TITANIUM	334.941	Radial	4203.624	2.386792	2.398261	2.382728	2.379387

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1835560-06 Batch: WG2469953 Units: mg/kg
Analyzed: 03/17/25 12:40 Sequence: 230

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5145.107	5080.801	5203.499	5151.022
YTTRIUM	360.073	Axial	52131.76	51304.52	52634.77	52455.99
YTTRIUM	360.073	Radial	4447.044	4462.539	4464.089	4414.505
INDIUM	230.606	Axial	1041.226	1025.340	1049.085	1049.255

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	6044.449	100.3993	100.4098	100.3901	100.3981
ANTIMONY	206.833	Axial	128.4364	0.8449188	0.8422402	0.8379389	0.8545773
ARSENIC	189.042	Axial	204.0040	0.9630765	0.9676812	0.9547860	0.9667622
BARIUM	233.527	Axial	12927.73	2.198481	2.187168	2.207577	2.200697
BERYLLIUM	313.042	Radial	16273.55	0.9492133	0.9494217	0.9516192	0.9465990
BORON	249.678	Radial	232.0539	1.040348	1.039903	1.038836	1.042304
CADMIUM	228.802	Axial	1778.246	0.9401986	0.9355830	0.9370954	0.9479173
CHROMIUM	267.716	Axial	2449.411	1.034475	1.033736	1.030752	1.038935
COBALT	228.616	Axial	938.0021	1.052610	1.053346	1.050019	1.054466
COPPER	324.754	Axial	4755.774	1.037827	1.039994	1.034725	1.038760
IRON	271.441	Radial	2634.154	119.6545	119.6396	119.5121	119.8119
LEAD	220.353	Axial	524.5977	1.298046	1.299685	1.294707	1.299746
LITHIUM	670.784	Radial	1172.739	1.243467	1.238542	1.257533	1.234326
MANGANESE	257.610	Axial	96805.18	4.517785	4.513301	4.501632	4.538423
MOLYBDENUM	202.030	Axial	426.6087	0.9283859	0.9221050	0.9313011	0.9317518
NICKEL	231.604	Axial	931.7496	1.169988	1.166315	1.173434	1.170215
POTASSIUM	766.490	Radial	2920.399	28.24974	28.28231	28.26082	28.20609
SELENIUM	196.090	Axial	132.8109	0.9181487	0.9107243	0.9233001	0.9204216
SILVER	328.068	Axial	840.2993	0.1836093	0.1841795	0.1834536	0.1831949
SODIUM	589.592	Radial	4981.152	13.00543	13.04735	12.91748	13.05145
THALLIUM	190.856	Axial	145.2697	0.9370430	0.9369232	0.9454997	0.9287061
VANADIUM	292.402	Radial	705.5908	1.105617	1.103346	1.113807	1.099699
ZINC	206.200	Axial	9417.145	3.920937	3.888084	3.915829	3.958898
CALCIUM	373.690	Radial	155612.2	1492.374	1492.395	1497.602	1487.126
CERIUM	535.353	Radial	25.00019	0.1178990	0.09703019	0.1706510	0.08601577
LANTHANUM	333.749	Radial	40.06168	0.07325039	0.07580045	0.07437376	0.06957696
MAGNESIUM	279.079	Radial	12077.12	130.0111	130.2095	129.4698	130.3540
PHOSPHORUS	177.495	Axial	994.6078	4.774648	4.798570	4.720871	4.804503
SILICON	251.611	Axial	25976.17	25.28722	25.20428	25.44369	25.21370
STRONTIUM	421.552	Radial	31219.79	2.848613	2.831114	2.872497	2.842229
SULFUR	182.034	Axial	1330.200	22.63821	22.93211	22.24797	22.73455
TIN	189.989	Axial	347.2819	1.014400	1.016755	1.011856	1.014589
TITANIUM	334.941	Radial	4162.487	2.369741	2.365127	2.372758	2.371340

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1835560-06 Batch: WG2469953 Units: mg/kg
Analyzed: 03/17/25 12:42 Sequence: 231

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5230.967	5128.585	5447.032	5117.284
YTTRIUM	360.073	Axial	52559.58	51719.97	54553.32	51405.46
YTTRIUM	360.073	Radial	4469.971	4477.892	4469.370	4462.652
INDIUM	230.606	Axial	1044.511	1024.019	1086.702	1022.813

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	6292.456	103.9790	104.3523	103.8607	103.7240
ANTIMONY	206.833	Axial	124.4469	0.8057281	0.8137939	0.7787317	0.8246586
ARSENIC	189.042	Axial	209.3145	0.9728222	0.9940820	0.9304918	0.9938928
BARIUM	233.527	Axial	12563.16	2.103395	2.131625	2.014972	2.163587
BERYLLIUM	313.042	Radial	16641.20	0.9656901	0.9699645	0.9635302	0.9635755
BORON	249.678	Radial	235.7676	1.051537	1.057258	1.050591	1.046763
CADMIUM	228.802	Axial	1785.320	0.9292301	0.9426988	0.8909348	0.9540566
CHROMIUM	267.716	Axial	2505.270	1.041834	1.063632	0.9877086	1.074163
COBALT	228.616	Axial	951.0223	1.064889	1.084858	1.017183	1.092625
COPPER	324.754	Axial	4839.587	1.048309	1.061447	1.006238	1.077242
IRON	271.441	Radial	2908.448	131.4393	132.4222	131.1665	130.7293
LEAD	220.353	Axial	561.2232	1.385478	1.403984	1.329082	1.423368
LITHIUM	670.784	Radial	1188.754	1.253913	1.245158	1.260485	1.256094
MANGANESE	257.610	Axial	94844.52	4.357824	4.445588	4.155112	4.472772
MOLYBDENUM	202.030	Axial	431.7445	0.9249585	0.9316694	0.8876064	0.9555998
NICKEL	231.604	Axial	945.4175	1.184475	1.206658	1.131992	1.214775
POTASSIUM	766.490	Radial	2971.218	28.59001	28.69345	28.50181	28.57476
SELENIUM	196.090	Axial	133.5267	0.9086597	0.9211941	0.8745920	0.9301929
SILVER	328.068	Axial	853.3875	0.1850662	0.1875094	0.1771589	0.1905303
SODIUM	589.592	Radial	5103.467	13.25301	13.32585	13.23072	13.20246
THALLIUM	190.856	Axial	146.5008	0.9429226	0.9476446	0.8991342	0.9819890
VANADIUM	292.402	Radial	737.6454	1.149772	1.147870	1.149373	1.152073
ZINC	206.200	Axial	7619.075	3.110346	3.145614	3.009997	3.175428
CALCIUM	373.690	Radial	146856.6	1401.198	1404.893	1397.687	1401.014
CERIUM	535.353	Radial	28.16934	0.1503181	0.1412284	0.1392183	0.1705076
LANTHANUM	333.749	Radial	41.04496	0.07465194	0.07430513	0.07434868	0.07530202
MAGNESIUM	279.079	Radial	11359.55	121.6590	122.5922	121.3795	121.0055
PHOSPHORUS	177.495	Axial	1034.098	4.887424	5.005161	4.656599	5.000511
SILICON	251.611	Axial	24434.05	23.61037	23.90243	22.70190	24.22679
STRONTIUM	421.552	Radial	30917.02	2.806548	2.797652	2.806659	2.815334
SULFUR	182.034	Axial	1397.721	23.42055	23.85851	22.28184	24.12129
TIN	189.989	Axial	357.0799	1.040584	1.057406	0.9950783	1.069268
TITANIUM	334.941	Radial	4173.511	2.363805	2.385129	2.363817	2.342468

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1836698-01 DF: 10x Batch: WG2469953 Units: mg/kg
Analyzed: 03/17/25 12:43 Sequence: 232

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4666.736	4664.360	4650.417	4685.431
YTTRIUM	360.073	Axial	50330.08	50028.32	50314.56	50647.35
YTTRIUM	360.073	Radial	4330.714	4377.587	4333.502	4281.053
INDIUM	230.606	Axial	1140.373	1138.004	1137.980	1145.133

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CHROMIUM	267.716	Axial	48.49482	0.01877576	0.1859321	0.1823667	0.1949740
COPPER	324.754	Axial	272079.3	61.46463	609.8909	614.8282	619.2198
POTASSIUM	766.490	Radial	149.4166	1.794254	17.90177	17.46236	18.46350
SILVER	328.068	Axial	624.8634	0.1424740	1.409257	1.425482	1.439481
SODIUM	818.326	Radial	201.7269	39.7030	397.6262	403.0238	390.4399
ALUMINUM	308.215	Radial	7.043108	0.2142487	2.127748	2.095949	2.203764
ANTIMONY	206.833	Axial	1.411936	0.009006804	0.1654269	0.03436505	0.07041219
ARSENIC	189.042	Axial	2.070767	0.003230492	0.03647356	-0.01233180	0.07277299
BARIUM	233.527	Axial	336.9668	0.06458641	0.6363211	0.6512219	0.6500492
BERYLLIUM	313.042	Radial	3.482517	-0.00005900890	-0.002171641	0.0002212647	0.0001801094
BORON	249.678	Radial	2.157657	0.01227476	0.05431643	0.1668355	0.1470909
CADMIUM	228.802	Axial	3.224088	0.0002353080	0.003634286	0.002498149	0.0009268046
CALCIUM	317.933	Radial	88.88029	0.3017086	3.088475	2.917179	3.045603
CERIUM	535.353	Radial	6.151027	-0.08135637	-0.8398402	-0.8581191	-0.7427319
COBALT	228.616	Axial	6.187442	0.0004110753	-0.001599925	-0.004260769	0.01819295
IRON	259.940	Radial	1451.034	5.559816	55.08680	55.83358	55.87409
LANTHANUM	333.749	Radial	-10.4425	-0.01794241	-0.1365124	-0.2320954	-0.1696646
LEAD	220.353	Axial	1.040427	0.001681751	0.02900986	0.02799825	-0.006555596
LITHIUM	670.784	Radial	-7.01506	0.005724046	0.01517057	0.02764276	0.1289081
MAGNESIUM	279.079	Radial	0.3836367	0.03522608	0.3005499	0.3546856	0.4015470
MANGANESE	257.610	Axial	112.9179	0.006625002	0.06870994	0.06633970	0.06370042
MOLYBDENUM	202.030	Axial	10.90878	0.02607058	0.2570697	0.2731681	0.2518795
NICKEL	231.604	Axial	9.470051	0.01362717	0.1546353	0.1196821	0.1344978
PHOSPHORUS	177.495	Axial	436.8012	2.306796	23.08092	23.02399	23.09897
SELENIUM	196.090	Axial	0.1176353	-0.003035902	-0.06311152	-0.002985251	-0.02498029
SILICON	251.611	Axial	1318.390	1.324976	13.14836	13.23393	13.36699
STRONTIUM	421.552	Radial	33.02197	0.002746995	0.02762419	0.03075637	0.02402930
SULFUR	182.034	Axial	1762.223	33.09949	330.3332	331.4770	331.1744
THALLIUM	190.856	Axial	0.5354455	-0.0004974067	-0.03548849	0.03040008	-0.009833791
TIN	189.989	Axial	4.630788	0.01466298	0.1652001	0.1226545	0.1520347
TITANIUM	334.941	Radial	35.71503	0.02247962	0.2393560	0.2206936	0.2143389
VANADIUM	292.402	Radial	-0.03899523	0.004181302	0.03280208	0.06127550	0.03136149
ZINC	206.200	Axial	212.9277	0.04015034	0.3994453	0.4034945	0.4015704

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1836698-01 DF: 25x Batch: WG2469953 Units: mg/kg
Analyzed: 03/17/25 12:45 Sequence: 233

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4505.163	4450.623	4532.084	4532.782
YTTRIUM	360.073	Axial	48349.88	47674.78	48295.24	49079.63
YTTRIUM	360.073	Radial	4308.970	4309.128	4330.541	4287.242
INDIUM	230.606	Axial	1096.958	1080.194	1100.856	1109.824

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CHROMIUM	267.716	Axial	21.96087	0.006736556	0.1368445	0.1777068	0.1906903
COPPER	324.754	Axial	113596.3	26.71416	667.4020	667.7466	668.4138
POTASSIUM	766.490	Radial	36.94425	0.6915940	17.92878	16.93882	17.00196
SILVER	328.068	Axial	245.4330	0.06097952	1.500751	1.549479	1.523235
SODIUM	589.592	Radial	5897.344	15.85439	394.8125	395.4707	398.7963
ALUMINUM	308.215	Radial	-0.02888247	0.09379656	3.483427	1.103217	2.448099
ANTIMONY	206.833	Axial	0.6887012	0.003911360	-0.003510725	0.2744463	0.02241646
ARSENIC	189.042	Axial	2.338526	0.005074952	0.08318745	0.1305081	0.1669257
BARIUM	233.527	Axial	128.7087	0.02643037	0.6662110	0.6528823	0.6631846
BERYLLIUM	313.042	Radial	5.303948	0.00005116564	0.0005978885	-0.0005504941	0.003790028
BORON	249.678	Radial	0.5171846	0.004724336	-0.03161745	0.1504275	0.2355151
CADMIUM	228.802	Axial	2.541590	-0.0001006576	0.03711658	-0.03065199	-0.01401392
CALCIUM	317.933	Radial	45.40673	0.1170120	2.940109	2.852000	2.983787
CERIUM	535.353	Radial	15.16516	0.01816654	-0.6976040	1.562451	0.4976441
COBALT	228.616	Axial	3.682914	-0.002003022	-0.007550743	-0.06693220	-0.07574367
IRON	259.940	Radial	593.2489	2.275942	57.03627	56.72991	56.92943
LANTHANUM	333.749	Radial	-4.76238	-0.007496036	-0.2113924	-0.2204165	-0.1303937
LEAD	220.353	Axial	1.261667	0.002289966	0.04374899	0.1030849	0.02491351
LITHIUM	670.784	Radial	-14.8135	-0.002794104	0.09119211	-0.1985910	-0.1021590
MAGNESIUM	279.079	Radial	-0.4414477	0.02606219	0.8256601	0.4397360	0.6892681
MANGANESE	257.610	Axial	37.45838	0.002811524	0.06894784	0.06882404	0.07309239
MOLYBDENUM	202.030	Axial	3.831503	0.009405008	0.1947896	0.2879231	0.2226628
NICKEL	231.604	Axial	4.579675	0.008239296	0.1962310	0.2272358	0.1944803
PHOSPHORUS	177.495	Axial	185.8304	1.011324	25.36317	25.34474	25.14142
SELENIUM	196.090	Axial	-0.02851262	-0.004183760	-0.1844158	-0.07789301	-0.05147313
SILICON	251.611	Axial	542.0117	0.5643668	14.03243	14.09831	14.19676
STRONTIUM	421.552	Radial	10.53294	0.0006465740	0.01583342	0.01232716	0.02033248
SULFUR	182.034	Axial	735.1773	14.25690	357.9964	360.2989	350.9726
THALLIUM	190.856	Axial	0.5882957	-0.00004236160	0.04147580	-0.08711186	0.04245894
TIN	189.989	Axial	1.724300	0.007086224	0.09237785	0.2199679	0.2191211
TITANIUM	334.941	Radial	12.35643	0.008879876	0.2173170	0.2187372	0.2299364
VANADIUM	292.402	Radial	-0.2474758	0.003842535	0.07781498	0.1333328	0.07704229
ZINC	206.200	Axial	157.4719	0.01694558	0.4429587	0.4097431	0.4182163

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/17/25 12:50 Sequence: 235 Standard ID: 25C17425

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4566.974	4482.070	4618.713	4600.139
YTTRIUM	360.073	Axial	47957.77	47131.05	48219.53	48522.74
YTTRIUM	360.073	Radial	4218.639	4252.292	4198.963	4204.662
INDIUM	230.606	Axial	1070.483	1053.416	1080.235	1077.797

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	569.2027	10.05147	10.01000	10.09763	10.04679
ANTIMONY	206.833	Axial	73.52611	0.5444128	0.5397947	0.5588166	0.5346269
ARSENIC	189.042	Axial	206.9091	1.101577	1.112963	1.098037	1.093731
BARIUM	233.527	Axial	2652.236	0.5092504	0.5077338	0.5112174	0.5087999
BERYLLIUM	313.042	Radial	3377.992	0.2074910	0.2081881	0.2072562	0.2070285
BORON	249.678	Radial	218.1179	1.030845	1.027282	1.039909	1.025345
CADMIUM	228.802	Axial	889.2656	0.5289974	0.5307807	0.5280413	0.5281702
CALCIUM	373.690	Radial	5221.352	52.80549	52.90688	52.90053	52.60907
CHROMIUM	267.716	Axial	2126.838	1.011841	1.011010	1.016801	1.007711
COBALT	228.616	Axial	903.2102	0.9854809	0.9849128	0.9834606	0.9880693
COPPER	324.754	Axial	4590.042	1.088838	1.092663	1.093360	1.080492
IRON	259.940	Radial	2598.511	10.23147	10.52491	10.08430	10.08521
LEAD	220.353	Axial	215.9473	0.5193218	0.5195516	0.5186556	0.5197583
LITHIUM	670.784	Radial	905.4584	1.014572	1.005496	1.013620	1.024600
MAGNESIUM	279.079	Radial	902.9723	10.27500	10.34239	10.25521	10.22739
MANGANESE	257.610	Axial	19353.99	1.018169	1.015718	1.019927	1.018861
MOLYBDENUM	202.030	Axial	106.9737	0.2622369	0.2666284	0.2616883	0.2583939
NICKEL	231.604	Axial	830.7820	1.015124	1.020111	1.018380	1.006881
PHOSPHORUS	177.495	Axial	206.0347	1.107197	1.130400	1.086869	1.104321
POTASSIUM	766.490	Radial	5035.502	51.08032	50.95356	51.20703	51.08038
SELENIUM	196.090	Axial	140.1274	1.092340	1.112167	1.089137	1.075715
SILICON	251.611	Axial	2113.412	2.232281	2.230871	2.244197	2.221776
SILVER	328.068	Axial	2237.851	0.5228141	0.5256516	0.5254718	0.5173190
SODIUM	818.326	Radial	256.5737	51.09120	52.33806	51.58370	49.35184
STRONTIUM	421.552	Radial	10742.49	1.033118	1.015284	1.048417	1.035652
SULFUR	182.034	Axial	293.7786	5.570079	5.663491	5.562901	5.483845
THALLIUM	190.856	Axial	167.3980	1.050720	1.051934	1.051596	1.048630
TIN	189.989	Axial	184.7699	0.5261115	0.5306777	0.5278745	0.5197823
TITANIUM	334.941	Radial	1725.480	1.036413	1.040417	1.035078	1.033744
VANADIUM	292.402	Radial	628.5213	1.038472	1.034953	1.043954	1.036507
ZINC	206.200	Axial	2350.693	1.060340	1.072673	1.047287	1.061061
CERIUM	535.353	Radial	8.311301	-0.05524945	-0.06781175	-0.05248247	-0.04545413
LANTHANUM	333.749	Radial	-5.23634	-0.008616670	-0.001186113	-0.009622730	-0.01504117

Sample ID: CCB Units: mg/l
Analyzed: 03/17/25 12:52 Sequence: 236

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4473.212	4409.417	4484.836	4525.384
YTTRIUM	360.073	Axial	47558.15	47041.64	47575.45	48057.35
YTTRIUM	360.073	Radial	4343.725	4342.303	4359.555	4329.317
INDIUM	230.606	Axial	1079.539	1069.252	1083.297	1086.069

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.20004	0.02289191	0.04439466	-0.006101142	0.03038221
ANTIMONY	206.833	Axial	1.594742	0.01081683	0.009658267	0.007021480	0.01577076
ARSENIC	189.042	Axial	2.004357	0.003377434	0.006466922	0.004436615	-0.0007712351
BARIUM	233.527	Axial	-5.27646	0.0004206022	0.001088145	0.00007739182	0.00009626960
BERYLLIUM	313.042	Radial	1.332517	-0.0001889629	-0.0002650176	-0.0001328670	-0.0001690041
BORON	249.678	Radial	1.274271	0.008170704	0.001971769	0.009032544	0.01350780
CADMIUM	228.802	Axial	2.105553	-0.0003596825	0.0002199749	-0.0002926691	-0.001006353
CALCIUM	317.933	Radial	20.59075	0.009757225	0.01152040	0.01008793	0.007663346
CERIUM	535.353	Radial	7.850715	-0.06302864	-0.07041739	-0.05765095	-0.06101759
CHROMIUM	267.716	Axial	11.17434	0.001556681	0.0009524909	0.001951226	0.001766328
COBALT	228.616	Axial	3.125734	-0.002562327	-0.003042312	-0.003161215	-0.001483455
COPPER	324.754	Axial	7.268864	0.002283108	0.0009779883	0.003134711	0.002736625
IRON	259.940	Radial	1.479440	-0.008808182	-0.007794483	-0.01265656	-0.005973508
LANTHANUM	333.749	Radial	1.350807	0.003808899	0.005302301	0.002463897	0.003660498
LEAD	220.353	Axial	-1.27426	-0.003714487	-0.003380350	-0.002176778	-0.005586333
LITHIUM	670.784	Radial	-3.97008	0.008975170	0.01143798	0.007327639	0.008159895
MAGNESIUM	279.079	Radial	-2.11483	0.007667423	0.01570789	-0.004679851	0.01197423
MANGANESE	257.610	Axial	-2.70953	0.0006715231	0.0007559944	0.0008165652	0.0004420097
MOLYBDENUM	202.030	Axial	-0.01574064	-0.0001665432	-0.002751565	0.001333320	0.0009186160
NICKEL	231.604	Axial	0.09345794	0.002902320	0.001516171	0.004865213	0.002325578
PHOSPHORUS	177.495	Axial	1.847164	0.0007401940	-0.002335188	0.0009069937	0.003648777
POTASSIUM	766.490	Radial	-19.7491	0.1336422	0.09773856	0.1808876	0.1223005
SELENIUM	196.090	Axial	-0.1748299	-0.005301350	-0.001570896	-0.004988954	-0.009344201
SILICON	251.611	Axial	11.40339	0.007545063	0.007730370	0.008523033	0.006381787
SILVER	328.068	Axial	-27.6584	-0.001844598	-0.002145417	-0.001705094	-0.001683284
SODIUM	589.592	Radial	-28.0590	0.09062259	0.09958939	0.09942020	0.07285817
STRONTIUM	421.552	Radial	-2.04028	-0.0005369997	-0.0003686937	-0.0004239609	-0.0008183443
SULFUR	182.034	Axial	4.096172	-0.002972390	-0.0004250426	0.00001011294	-0.008502242
THALLIUM	190.856	Axial	0.2785016	-0.001917718	-0.000006563928	-0.005170054	-0.0005765348
TIN	189.989	Axial	0.3269840	0.003264993	0.004543247	-0.0004593561	0.005711089
TITANIUM	334.941	Radial	-2.30144	0.0002860955	-0.00006090633	-0.0006429170	0.001562110
VANADIUM	292.402	Radial	-1.44754	0.001934717	0.004036372	-0.0002808346	0.002048614
ZINC	206.200	Axial	119.7440	-0.0008498728	0.00005644807	-0.001117845	-0.001488221

Sample ID: ICSA Units: mg/l
Analyzed: 03/17/25 12:59 Sequence: 240 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4825.495	4754.977	4850.073	4871.436
YTTRIUM	360.073	Axial	47855.19	47481.52	48187.35	47896.69
YTTRIUM	360.073	Radial	4198.019	4168.380	4212.080	4213.596
INDIUM	230.606	Axial	978.3293	968.5870	984.4182	981.9827

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	29549.60	519.5420	518.4792	518.3443	521.8026
ANTIMONY	206.833	Axial	1.627814	0.01019599	0.01093520	0.01129661	0.008356146
ARSENIC	189.042	Axial	0.1541119	-0.006815824	-0.003619615	-0.007992748	-0.008835110
BARIUM	233.527	Axial	6.123706	0.002558191	0.002716451	0.002501782	0.002456340
BERYLLIUM	313.042	Radial	3.764872	-0.00003595719	-0.00007600246	-0.00006546126	0.00003359215
BORON	249.678	Radial	-7.08447	-0.03123782	-0.03097019	-0.03157418	-0.03116909
CADMIUM	228.802	Axial	0.9019778	-0.001136757	-0.0008840376	-0.001508636	-0.001017598
CALCIUM	373.690	Radial	50999.36	518.1376	519.0625	516.3499	519.0004
CERIUM	535.353	Radial	14.79668	0.01847703	0.01612119	0.01516461	0.02414528
CHROMIUM	267.716	Axial	11.44829	0.001293955	0.002376087	0.0002680906	0.001237687
COBALT	228.616	Axial	4.798689	-0.0001994762	-0.0005136777	-0.0001295996	0.00004484861
COPPER	324.754	Axial	6.197070	0.002022274	0.001813415	0.002617193	0.001636216
IRON	271.441	Radial	4272.106	205.6024	206.2759	204.4748	206.0564
LANTHANUM	333.749	Radial	-3.16848	-0.004709134	-0.006323576	-0.004526469	-0.003277357
LEAD	220.353	Axial	-0.4181197	-0.001779968	-0.002603193	-0.002197253	-0.0005394577
LITHIUM	670.784	Radial	-5.23017	0.007408578	0.002629924	0.009461008	0.01013480
MAGNESIUM	279.079	Radial	45511.25	518.9011	520.2489	514.9815	521.4729
MANGANESE	257.610	Axial	-147.905	-0.006544870	-0.006814934	-0.006617510	-0.006202166
MOLYBDENUM	202.030	Axial	-0.7367778	-0.001826804	-0.003128482	0.0001001694	-0.002452100
NICKEL	231.604	Axial	3.054104	0.006871768	0.008146311	0.007921786	0.004547207
PHOSPHORUS	177.495	Axial	3.009145	0.006003712	0.008992126	0.006291598	0.002727412
POTASSIUM	766.490	Radial	-8.98085	0.2360705	0.2343075	0.2657206	0.2081833
SELENIUM	196.090	Axial	-1.71566	-0.01663706	-0.01605910	-0.01808489	-0.01576719
SILICON	251.611	Axial	-3.23817	-0.008070137	-0.008337128	-0.006116706	-0.009756577
SILVER	328.068	Axial	2.627256	0.005228986	0.005905731	0.004095915	0.005685312
SODIUM	589.592	Radial	-18.1343	0.1151850	0.1156536	0.1113812	0.1185202
STRONTIUM	421.552	Radial	67.49476	0.006178854	0.006226763	0.006049055	0.006260744
SULFUR	182.034	Axial	4.011589	-0.01037077	-0.004853161	-0.008253650	-0.01800550
THALLIUM	190.856	Axial	-0.3637784	-0.006176272	-0.007774308	-0.009147733	-0.001606775
TIN	189.989	Axial	1.359212	0.006568911	0.008350740	0.003347928	0.008008064
TITANIUM	334.941	Radial	-9.89457	-0.004340072	-0.004611642	-0.004747573	-0.003661000
VANADIUM	292.402	Radial	5.448798	0.01325920	0.01458350	0.01009654	0.01509756
ZINC	206.200	Axial	173.6702	0.01920309	0.02029995	0.01884860	0.01846073

Sample ID: ICSAB Units: mg/l
Analyzed: 03/17/25 13:00 Sequence: 241 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4769.891	4729.836	4839.858	4739.978
YTTRIUM	360.073	Axial	48064.25	47622.51	48630.27	47939.98
YTTRIUM	360.073	Radial	4166.273	4174.308	4174.541	4149.969
INDIUM	230.606	Axial	966.6351	961.8842	970.6325	967.3886

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	29610.06	524.5761	525.3453	523.2918	525.0912
ANTIMONY	206.833	Axial	70.42266	0.4992857	0.5089289	0.4883287	0.5005994
ARSENIC	189.042	Axial	99.31537	0.5020655	0.4946997	0.5050891	0.5064077
BARIUM	233.527	Axial	2654.738	0.4881282	0.4842908	0.4867987	0.4932949
BERYLLIUM	313.042	Radial	8313.353	0.5174664	0.5199868	0.5157515	0.5166610
BORON	249.678	Radial	208.4858	0.9977762	1.000034	0.9900109	1.003284
CADMIUM	228.802	Axial	1719.613	0.9808325	0.9775190	0.9759516	0.9890268
CALCIUM	373.690	Radial	51038.25	522.4790	525.2621	520.5060	521.6690
CERIUM	535.353	Radial	12.74385	-0.003644077	-0.0006951206	0.002719260	-0.01295637
CHROMIUM	267.716	Axial	1084.021	0.4918094	0.4868336	0.4897759	0.4988187
COBALT	228.616	Axial	462.5392	0.5562862	0.5479846	0.5627605	0.5581135
COPPER	324.754	Axial	2240.519	0.5305778	0.5299594	0.5292997	0.5324744
IRON	271.441	Radial	4272.278	207.1748	207.8924	206.7823	206.8497
LANTHANUM	333.749	Radial	-4.78199	-0.007841304	-0.007213431	-0.008802502	-0.007507979
LEAD	220.353	Axial	401.2368	1.069251	1.056405	1.080231	1.071118
LITHIUM	670.784	Radial	-4.95173	0.007700622	0.007734399	0.003782047	0.01158542
MAGNESIUM	279.079	Radial	45517.73	522.9251	524.1637	521.5400	523.0716
MANGANESE	257.610	Axial	9932.252	0.5007001	0.4963845	0.5018146	0.5039013
MOLYBDENUM	202.030	Axial	192.7823	0.4525296	0.4552220	0.4481894	0.4541775
NICKEL	231.604	Axial	814.4713	1.101804	1.088344	1.103668	1.113400
PHOSPHORUS	177.495	Axial	1.291173	-0.002752027	-0.004018136	-0.003143117	-0.001094829
POTASSIUM	766.490	Radial	-8.27972	0.2425474	0.2407449	0.2383388	0.2485587
SELENIUM	196.090	Axial	62.09422	0.4611706	0.4669229	0.4533053	0.4632837
SILICON	251.611	Axial	899.5463	0.9453838	0.9408584	0.9399252	0.9553677
SILVER	328.068	Axial	3622.806	0.8415965	0.8320554	0.8387694	0.8539647
SODIUM	589.592	Radial	-16.6535	0.1188805	0.1034285	0.1343047	0.1189084
STRONTIUM	421.552	Radial	68.38787	0.006315543	0.006074115	0.006485864	0.006386652
SULFUR	182.034	Axial	4.490361	-0.0007869804	-0.009521134	0.004156032	0.003004161
THALLIUM	190.856	Axial	72.99820	0.5054937	0.5007408	0.5201974	0.4955429
TIN	189.989	Axial	170.0516	0.5361240	0.5286092	0.5401068	0.5396560
TITANIUM	334.941	Radial	827.0609	0.5038608	0.5045915	0.5043590	0.5026320
VANADIUM	292.402	Radial	301.6327	0.5068133	0.5093179	0.5026393	0.5084827
ZINC	206.200	Axial	2202.497	0.9451248	0.9407341	0.9324189	0.9622215

3050B ICP SS Metals Prep Benchsheet

Workgroup: WG2469953

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834834	WG2468886	CMW844	PREPREPBAL2	14-MAR-25
L1835040	WG2469299	BJM688	PREPREPBAL2	14-MAR-25
L1835127	WG2468891	CMW844	PREPREPBAL2	14-MAR-25
L1835141	WG2468891	CMW844	PREPREPBAL2	14-MAR-25
L1835285	WG2469408	BJM688	PREPREPBAL4	15-MAR-25
L1835452	WG2468821	KMT967	PREPREPBAL3	14-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835978	WG2469859	KMT967	PREPREPBAL4	15-MAR-25
L1836148	WG2469299	BJM688	PREPREPBAL2	14-MAR-25
L1836188	WG2469299	BJM688	PREPREPBAL2	14-MAR-25
L1836698	WG2469859	KMT967	PREPREPBAL4	15-MAR-25

Prep Start Date/Time: 03/16/25 08:55-08:56 **Analyst:** SRC4252 **Balance ID:** METBAL6 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Pipette ID:** 101109445
Hotblock ID: MPD **Digestion Chips Lot #:** 25C06845 **Thermometer ID#:** 718470 **Thermometer Location:** H5 **Prep Start Analyst:** SRC4252
Dig. Start Date/Time: 03/16/25 09:35:00 **Prep End Date/Time:** 03/16/25 14:56 **Prep End Analyst:** SRC4252 **Dig. End Date/Time:** 03/16/25 14:05:00
Pipette Tip Lot#: 24440172 **Method:** 3050B **SOP:** ENV-SOP-MTJL-0217 **Sieve ID:** N/A **Sieve Size:** N/A

1:1 Nitric Acid: 25C12740 Amt. Used: 5 mL Exp. Date:08/06/25 **Nitric Acid:** 25C12738 Amt. Used: 2.50 mL Exp. Date:09/12/25
Hydrogen Peroxide: 25C10403 Amt. Used: 1.50 mL Exp. Date:09/10/25 **Hydrochloric Acid:** 25C12739 Amt. Used: 2.50 mL Exp. Date:09/12/25
High Spike: 25B24106 Amt. Used: 0.50 mL Exp. Date:08/24/25 **High Spike 2:** 25B24107 Amt. Used: 0.50 mL Exp. Date:08/24/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Box ID	Spike Factor	Review Analyst	Review Date
BLANK	0.50	50	PELLETS		1	SRC4252	03/16/25 14:59:16
LCS	0.55	50	PELLETS		1	SRC4252	03/16/25 14:59:16
MS(L1835560-06)	0.52	50	SOIL		1	SRC4252	03/16/25 14:59:16
MSD(L1835560-06)	0.50	50	SOIL		1	SRC4252	03/16/25 14:59:16
1. L1834834-01	0.48	50	SOIL	FRI 4 - PP2 3/14	1	SRC4252	03/16/25 14:59:16
2. L1835040-01	0.50	50	SOIL	Fri-3/PP1 0314	1	SRC4252	03/16/25 14:59:16
3. L1835127-24	0.49	50	SOIL	FRI 4 - PP2 3/14	1	SRC4252	03/16/25 14:59:16
4. L1835127-26	0.53	50	SOIL	FRI 4 - PP2 3/14	1	SRC4252	03/16/25 14:59:16
5. L1835127-27	0.46	50	SOIL	FRI 4 - PP2 3/14	1	SRC4252	03/16/25 14:59:16
6. L1835127-28	0.45	50	SOIL	FRI 4 - PP2 3/14	1	SRC4252	03/16/25 14:59:16
7. L1835141-01	0.49	50	SOIL	FRI 4 - PP2 3/14	1	SRC4252	03/16/25 14:59:16
8. L1835285-16	0.53	50	SOIL		1	SRC4252	03/16/25 14:59:16
9. L1835285-18	0.55	50	SOIL		1	SRC4252	03/16/25 14:59:16
10. L1835285-19	0.51	50	SOIL		1	SRC4252	03/16/25 14:59:16
11. L1835452-02	0.54	50	SOIL	fri 1 / pp3 3-14	1	SRC4252	03/16/25 14:59:16
12. L1835452-03	0.54	50	SOIL	fri 1 / pp3 3-14	1	SRC4252	03/16/25 14:59:16
13. L1835452-04	0.51	50	SOIL	fri 1 / pp3 3-14	1	SRC4252	03/16/25 14:59:16
14. L1835560-06	0.51	50	SOIL		1	SRC4252	03/16/25 14:59:16
15. L1835978-01	0.52	50	SOIL		1	SRC4252	03/16/25 14:59:16
16. L1835978-02	0.55	50	SOIL		1	SRC4252	03/16/25 14:59:16
17. L1836148-01	0.50	50	SOIL	Fri-3/PP1 0314	1	SRC4252	03/16/25 14:59:16
18. L1836188-01	0.52	50	SOIL	Fri-3/PP1 0314	1	SRC4252	03/16/25 14:59:16
19. L1836698-01	0.49	50	SOIL		1	SRC4252	03/16/25 14:59:16

Comments:
PEER REVIEWED BY BAR4050 3/16

Reviewed By:SRC4252 on 03/16/25 14:59:16

3050B ICP SS Metals Prep Benchsheet

Workgroup: WG2469957

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835037	WG2469385	BJM688	PREPREPBAL4	14-MAR-25
L1835042	WG2469385	BJM688	PREPREPBAL4	14-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25

Prep Start Date/Time: 03/16/25 22:42-22:43 **Analyst:** CLW4046 **Balance ID:** METBAL6 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Pipette ID:** 101109445
Hotblock ID: MPF **Digestion Chips Lot #:** 25C10377 **Thermometer ID#:** 1042830 **Thermometer Location:** A2 **Prep Start Analyst:** CLW4046
Dig. Start Date/Time: 03/16/25 23:17:56 **Prep End Date/Time:** 03/17/25 06:01 **Prep End Analyst:** CLW4046 **Dig. End Date/Time:** 03/17/25 03:46:56
Pipette Tip Lot#: 24440172 **Method:** 3050B **SOP:** ENV-SOP-MTJL-0217 **Sieve ID:** NA **Sieve Size:** NA

1:1 Nitric Acid: 25C12740 Amt. Used: 5 mL Exp. Date:08/06/25 **Nitric Acid:** 25C16351 Amt. Used: 2.50 mL Exp. Date:09/16/25
Hydrogen Peroxide: 25C10403 Amt. Used: 1.50 mL Exp. Date:09/10/25 **Hydrochloric Acid:** 25C12739 Amt. Used: 2.50 mL Exp. Date:09/12/25
High Spike: 25B24106 Amt. Used: 0.50 mL Exp. Date:08/24/25 **High Spike 2:** 25B24107 Amt. Used: 0.50 mL Exp. Date:08/24/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Spike Factor	Review Analyst	Review Date
BLANK	0.51	50	PELLETS	1	VSS117	03/17/25 06:21:05
LCS	0.51	50	PELLETS	1	VSS117	03/17/25 06:21:05
MS(L1835037-06)	0.53	50	SOIL	1	VSS117	03/17/25 06:21:05
MSD(L1835037-06)	0.54	50	SOIL	1	VSS117	03/17/25 06:21:05
1. L1835037-04	0.54	50	SOIL	1	VSS117	03/17/25 06:21:05
2. L1835037-05	0.51	50	SOIL	1	VSS117	03/17/25 06:21:05
3. L1835037-06	0.53	50	SOIL	1	VSS117	03/17/25 06:21:05
4. L1835042-03	0.51	50	SOIL	1	VSS117	03/17/25 06:21:05
5. L1835560-01	0.51	50	SOIL	1	VSS117	03/17/25 06:21:05
6. L1835560-02	0.49	50	SOIL	1	VSS117	03/17/25 06:21:05
7. L1835560-03	0.53	50	SOIL	1	VSS117	03/17/25 06:21:05
8. L1835560-04	0.55	50	SOIL	1	VSS117	03/17/25 06:21:05
9. L1835560-05	0.52	50	SOIL	1	VSS117	03/17/25 06:21:05
10. L1835560-07	0.53	50	SOIL	1	VSS117	03/17/25 06:21:05
11. L1835560-08	0.53	50	SOIL	1	VSS117	03/17/25 06:21:05
12. L1835568-01	0.48	50	SOIL	1	VSS117	03/17/25 06:21:05
13. L1835568-02	0.55	50	SOIL	1	VSS117	03/17/25 06:21:05
14. L1835568-03	0.48	50	SOIL	1	VSS117	03/17/25 06:21:05
15. L1835568-04	0.50	50	SOIL	1	VSS117	03/17/25 06:21:05
16. L1835568-05	0.53	50	SOIL	1	VSS117	03/17/25 06:21:05
17. L1835568-06	0.50	50	SOIL	1	VSS117	03/17/25 06:21:05
18. L1835568-07	0.50	50	SOIL	1	VSS117	03/17/25 06:21:05
19. L1835568-08	0.50	50	SOIL	1	VSS117	03/17/25 06:21:05
20. L1835568-09	0.50	50	SOIL	1	VSS117	03/17/25 06:21:05

Comments:
peer review by VS117 3/17/25

Reviewed By:VSS117 on 03/17/25 06:21:05

#	Type	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Hotblock	0	03/16/25 23:17:52	95	95	03/17/25 03:46:07	96	96	BLANK, LCS, MS(L1835037-06), MSD(L1835037-06), L1835037-04, L1835037-05, L1835037-06, L1835042-03, L1835560-01, L1835560-02, L1835560-03, L1835560-04, L1835560-05, L1835560-07, L1835560-08, L1835568-01, L1835568-02, L1835568-03, L1835568-04, L1835568-05, L1835568-06, L1835568-07, L1835568-08, L1835568-09

7471B Mercury

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-S-SO

Lab Sample ID:	L1835560-01	**SDG:**	L1835560
Client Sample ID:	CLINTON-SCHOOL-DITCH-S-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250319145228	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:24
Analytical Batch:	WG2470122	**Analysis Date/Time:**	03/19/25 14:52
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.33 g
Total Solids (%):	72.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0284	0.0551

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-02	**SDG:**	L1835560
Client Sample ID:	18-901-S-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	20250319145508	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:24
Analytical Batch:	WG2470122	**Analysis Date/Time:**	03/19/25 14:55
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.35 g
Total Solids (%):	71.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0290	0.0562

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-03	**SDG:**	L1835560
Client Sample ID:	K-18-S-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	20250319145748	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:24
Analytical Batch:	WG2470122	**Analysis Date/Time:**	03/19/25 14:57
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.28 g
Total Solids (%):	63.3	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0325	0.0632

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-04	**SDG:**	L1835560
Client Sample ID:	P-230-S-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	20250319150028	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:24
Analytical Batch:	WG2470122	**Analysis Date/Time:**	03/19/25 15:00
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.32 g
Total Solids (%):	64.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0318	0.0617

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-05	**SDG:**	L1835560
Client Sample ID:	P-350-S-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	20250319150309	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:24
Analytical Batch:	WG2470122	**Analysis Date/Time:**	03/19/25 15:03
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.35 g
Total Solids (%):	66.4	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0310	0.0602

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-06	**SDG:**	L1835560
Client Sample ID:	NHR-S-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250319150549	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:24
Analytical Batch:	WG2470122	**Analysis Date/Time:**	03/19/25 15:05
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.33 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0255	0.0496

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-07	**SDG:**	L1835560
Client Sample ID:	FLYASH-S-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	20250318180351	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:08
Analytical Batch:	WG2470128	**Analysis Date/Time:**	03/18/25 18:03
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.35 g
Total Solids (%):	67.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.955		0.0305	0.0592

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-S-SO

Lab Sample ID:	L1835560-08	**SDG:**	L1835560
Client Sample ID:	MONTROSE-LAKE-S-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	20250319170759	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:20
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 17:07
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.31 g
Total Solids (%):	73.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0282	0.0548

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187888-1	**SDG:**	L1835560
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250318164420	**Received Date/Time:**	_____
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:07
Analytical Batch:	WG2470128	**Analysis Date/Time:**	03/18/25 16:44
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188270-5	**SDG:**	L1835560
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250319135133	**Received Date/Time:**	
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:22
Analytical Batch:	WG2470122	**Analysis Date/Time:**	03/19/25 13:51
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188475-1	**SDG:**	L1835560
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250319162757	**Received Date/Time:**	
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:19
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 16:27
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187888-2	**SDG:**	L1835560
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250318164648	**Received Date/Time:**	_____
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:07
Analytical Batch:	WG2470128	**Analysis Date/Time:**	03/18/25 16:46
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.587		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188270-6	**SDG:**	L1835560
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250319135412	**Received Date/Time:**	_____
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:22
Analytical Batch:	WG2470122	**Analysis Date/Time:**	03/19/25 13:54
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.404		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188475-2	**SDG:**	L1835560
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250319163038	**Received Date/Time:**	
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:19
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 16:30
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.434		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187888-4	**SDG:**	L1835560
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 12:30
Lab File ID:	20250318165932	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:07
Analytical Batch:	WG2470128	**Analysis Date/Time:**	03/18/25 16:59
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.27 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.654	J5	0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188270-8	**SDG:**	L1835560
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 09:55
Lab File ID:	20250319140211	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:22
Analytical Batch:	WG2470122	**Analysis Date/Time:**	03/19/25 14:02
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.29 g
Total Solids (%):	83.7	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.649		0.0246	0.0478

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188475-4	**SDG:**	L1835560
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 10:17
Lab File ID:	20250319163841	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:19
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 16:38
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.31 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.464		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187888-5	**SDG:**	L1835560
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 12:30
Lab File ID:	20250318170215	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:07
Analytical Batch:	WG2470128	**Analysis Date/Time:**	03/18/25 17:02
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.29 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.603		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188270-9	**SDG:**	L1835560
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 09:55
Lab File ID:	20250319141005	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:22
Analytical Batch:	WG2470122	**Analysis Date/Time:**	03/19/25 14:10
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.28 g
Total Solids (%):	83.7	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.709		0.0246	0.0478

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188475-5	**SDG:**	L1835560
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 10:17
Lab File ID:	20250319164120	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:19
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 16:41
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.29 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.510		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187888-6	**SDG:**	L1835560
Client Sample ID:	PS	**Collected Date/Time:**	03/10/25 12:30
Lab File ID:	20250318184934	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:08
Analytical Batch:	WG2470128	**Analysis Date/Time:**	03/18/25 18:49
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.27 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.383	O1	0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187888-3	**SDG:**	L1835560
Client Sample ID:	SD	**Collected Date/Time:**	03/10/25 12:30
Lab File ID:	20250318165702	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:08
Analytical Batch:	WG2470128	**Analysis Date/Time:**	03/18/25 16:57
Dilution Factor:	5	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.27 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.103	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188270-7	**SDG:**	L1835560
Client Sample ID:	SD	**Collected Date/Time:**	03/10/25 09:55
Lab File ID:	20250319135932	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:24
Analytical Batch:	WG2470122	**Analysis Date/Time:**	03/19/25 13:59
Dilution Factor:	5	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	83.7	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.123	0.239

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188475-3	**SDG:**	L1835560
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 10:17
Lab File ID:	20250319163600	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:20
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 16:36
Dilution Factor:	5	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.103	0.200

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/18/25 09:16
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/18/25 09:29
Analytical Method:	7471B	**Analytical Run:**	031825CVAA9 S
Concentration Units:	mg/kg		

	ICV				**ICVLL**				**CCV**			
Sample ID:	CVAA90318250939				CVAA90318250958				CVAA90318251618			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.005028659	101	2.390000	0.0002	0.0002052953	103	8.750000	0.0050	0.005070129	101	2.780000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/18/25 09:16
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/18/25 09:29
Analytical Method:	7471B	**Analytical Run:**	031825CVAA9 S
Concentration Units:	mg/kg		

		CCV				CCV				CCV			
Sample ID:		CVAA90318251649				CVAA90318251721				CVAA90318251753			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.005047426	101	2.340000	0.0050	0.004985944	99.70	2.340000	0.0050	0.004975346	99.50	2.610000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/18/25 09:16
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/18/25 09:29
Analytical Method:	7471B	**Analytical Run:**	031825CVAA9 S
Concentration Units:	mg/kg		

		CCV				**CCV**		
Sample ID:		CVAA90318251825				CVAA90318251900		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.004910622	98.20	1.870000	0.0050	0.00520034	104	2.150000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S
Concentration Units:	mg/kg		

		ICV				ICVLL				CCV			
Sample ID:		CVAA90319251126				CVAA90319251143				CVAA90319251331			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.005000227	100	0.944000	0.0002	0.0001856904	92.80	4.180000	0.0050	0.004866173	97.30	1.760000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110 CCVLL Limits: 70 - 130

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S
Concentration Units:	mg/kg		

		CCV				**CCV**				**CCV**			
Sample ID:		CVAA90319251404				CVAA90319251436				CVAA90319251508			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.004896157	97.90	2.170000	0.0050	0.004887138	97.70	1.670000	0.0050	0.004858446	97.20	1.760000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110 CCVLL Limits: 70 - 130

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S
Concentration Units:	mg/kg		

	CCV				**CCV**				**CCV**			
Sample ID:	CVAA90319251616				CVAA90319251649				CVAA90319251721			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.004854121	97.10	1.990000	0.0050	0.004858395	97.20	1.670000	0.0050	0.004820355	96.40	1.960000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110 CCVLL Limits: 70 - 130

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S
Concentration Units:	mg/kg		

CCVLL

Sample ID: CVAA90319251727

Analyte	True	Found	%R	%RSD
MERCURY	0.0002	0.0001711067	85.60	1.000000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110 CCVLL Limits: 70 - 130

SDG:	L1835560	**Calibration (begin) date/time:**	03/18/25 09:16
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/18/25 09:29
Analytical Method:	7471B	**Analytical Run:**	031825CVAA9 S

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250318094158		20250318162047		20250318164420		20250318165209	
Analyte	mg/kg		mg/kg		mg/kg		mg/kg	
MERCURY	0.00001458104	U	-0.00006272753	U	U		-0.00004921666	U

SDG:	L1835560	**Calibration (begin) date/time:**	03/18/25 09:16
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/18/25 09:29
Analytical Method:	7471B	**Analytical Run:**	031825CVAA9 S

	Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
	File ID:	20250318172351		20250318175601		20250318182801		20250318190303	
Analyte		mg/kg		mg/kg		mg/kg		mg/kg	
MERCURY		-0.00005025819	U	-0.00005348383	U	-0.00004853611	U	-0.00009622193	U

SDG:	L1835560	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250319112917		20250319133339		20250319135133		20250319140728	
Analyte	mg/kg		mg/kg		mg/kg		mg/kg	
MERCURY	-0.00006264097	U	-0.0000616416	U	U		-0.00005795081	U

SDG:	L1835560	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**
File ID:	20250319143910		20250319151108		20250319161845		20250319162757	
Analyte	mg/kg		mg/kg		mg/kg		mg/kg	
MERCURY	-0.00005592728	U	-0.00005573983	U	-0.00005947694	U	U	

SDG:	L1835560	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250319165159		20250319172402	
Analyte	mg/kg		mg/kg	
MERCURY	-0.00006129555	U	-0.00005975434	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835560-07

SAMPLE NO.:
R4187888-4
R4187888-5

MS Sample / File ID:	R4187888-4 / 20250318165932	**SDG:**	L1835560
MSD Sample / File ID:	R4187888-5 / 20250318170215	**Analytical Batch:**	WG2470128
OS Sample / File ID:	L1835321-05 / 20250318165433	**Matrix:**	Solid
Instrument ID:	CVAA9		
Analytical Method:	7471B		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Mercury	0.500	U	0.654	0.603	131*	121	1	75.0 - 125	8.18	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835560-01,02,03,04,05,06

SAMPLE NO.:
R4188270-8
R4188270-9

MS Sample / File ID:	R4188270-8 / 20250319140211	**SDG:**	L1835560
MSD Sample / File ID:	R4188270-9 / 20250319141005	**Analytical Batch:**	WG2470122
OS Sample / File ID:	L1835126-02 / 20250319135652	**Matrix:**	Solid
Instrument ID:	CVAA9		
Analytical Method:	7471B		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Mercury	0.597	0.0620	0.649	0.709	98.2	108	1	75.0 - 125	8.92	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835560-08

SAMPLE NO.:
R4188475-4
R4188475-5

MS Sample / File ID:	R4188475-4 / 20250319163841	**SDG:**	L1835560
MSD Sample / File ID:	R4188475-5 / 20250319164120	**Analytical Batch:**	WG2470127
OS Sample / File ID:	L1835378-09 / 20250319163319	**Matrix:**	Solid
Instrument ID:	CVAA9		
Analytical Method:	7471B		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Mercury	0.500	U	0.464	0.510	92.8	102	1	75.0 - 125	9.42	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1835560-07

PS Sample / File ID:	R4187888-6 / 20250318184934	**SDG:**	L1835560
OS Sample / File ID:	L1835321-05 / 20250318165433	**Analytical Batch:**	WG2470128
Instrument ID:	CVAA9	**Dilution Factor:**	1
Analytical Method:	7471B	**Matrix:**	Solid

Analyte	Spike Amount	OS Result	PD Result	DS Result	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Mercury	0.500	U	0.383		76.6*		1	80.0 - 120	*	

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835560-07

SAMPLE NO.:
R4187888-2

LCS Sample / File ID:	R4187888-2 / 20250318164648	**SDG:**	L1835560
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2470128
Instrument ID:	CVAA9	**Dilution Factor:**	1
Analytical Method:	7471B	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Mercury	0.500	0.587		117		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835560-01,02,03,04,05,06

SAMPLE NO.:
R4188270-6

LCS Sample / File ID:	R4188270-6 / 20250319135412	**SDG:**	L1835560
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2470122
Instrument ID:	CVAA9	**Dilution Factor:**	1
Analytical Method:	7471B	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Mercury	0.500	0.404		80.9		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835560-08

SAMPLE NO.:
R4188475-2

LCS Sample / File ID:	R4188475-2 / 20250319163038	**SDG:**	L1835560
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2470127
Instrument ID:	CVAA9	**Dilution Factor:**	1
Analytical Method:	7471B	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Mercury	0.500	0.434		86.9		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4187888-3 / 20250318165702	**SDG:**	L1835560
OS Sample / File ID:	L1835321-05 / 20250318165433	**Analytical Batch:**	WG2470128
Lab File ID:	20250318165702	**Dilution Factor:**	5
Instrument ID:	CVAA9	**Matrix:**	Solid
Analytical Method:	7471B		

Analyte	OS Result	SD Result	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Mercury	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4188270-7 / 20250319135932	**SDG:**	L1835560
OS Sample / File ID:	L1835126-02 / 20250319135652	**Analytical Batch:**	WG2470122
Lab File ID:	20250319135932	**Dilution Factor:**	5
Instrument ID:	CVAA9	**Matrix:**	Solid
Analytical Method:	7471B		

Analyte	OS Result (dry)	SD Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Mercury	0.0620	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4188475-3 / 20250319163600	**SDG:**	L1835560
OS Sample / File ID:	L1835378-09 / 20250319163319	**Analytical Batch:**	WG2470127
Lab File ID:	20250319163600	**Dilution Factor:**	5
Instrument ID:	CVAA9	**Matrix:**	Solid
Analytical Method:	7471B		

Analyte	OS Result	SD Result	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Mercury	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835560-01,02,03,04,05,06,07,08
Matrix: Solid
Analytical Method: 7471B
Prep Method: 7471A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Mercury	7439-97-6		253.70	0.0206	0.04

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1835560	**Analytical Method:**	7471B
Instrument ID:	CVAA9	**Date:**	07/10/23 14:11

Analyte	LDR
	ppm
MERCURY	0.01

ANALYSIS LOG

SDG:	L1835560	**Analytical Method:**	7471B
Instrument ID:	CVAA9	**Calibration Start Date:**	03/18/25 09:16
Analytical Run:	031825CVAA9 S	**Calibration End Date:**	03/18/25 09:29

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	CVAA90318250914	20250318091405	03/18/25 09:14		
CAL	STD 0.2	20250318091643	03/18/25 09:16		
CAL	STD 0.4	20250318091920	03/18/25 09:19		
CAL	STD 1.0	20250318092159	03/18/25 09:21		
CAL	STD 2.0	20250318092438	03/18/25 09:24		
CAL	STD 5.0	20250318092718	03/18/25 09:27		
CAL	STD 10.0	20250318092956	03/18/25 09:29		
ICV	CVAA90318250939	20250318093919	03/18/25 09:39		
ICB	CVAA90318250941	20250318094158	03/18/25 09:41		
ICVLL	CVAA90318250958	20250318095832	03/18/25 09:58		
CCV	CVAA90318251618	20250318161809	03/18/25 16:18		
CCB	CVAA90318251620	20250318162047	03/18/25 16:20		
BLANK	R4187888-1	20250318164420	03/18/25 16:44	1	WG2470128
LCS	R4187888-2	20250318164648	03/18/25 16:46	1	WG2470128
CCV	CVAA90318251649	20250318164931	03/18/25 16:49		
CCB	CVAA90318251652	20250318165209	03/18/25 16:52		
OS	L1835321-05	20250318165433	03/18/25 16:54		
L1835321-05	L1835321-05	20250318165433	03/18/25 16:54	1	WG2470128
SD	R4187888-3	20250318165702	03/18/25 16:57	5	WG2470128
MS	R4187888-4	20250318165932	03/18/25 16:59	1	WG2470128
MSD	R4187888-5	20250318170215	03/18/25 17:02	1	WG2470128
CCV	CVAA90318251721	20250318172112	03/18/25 17:21		
CCB	CVAA90318251723	20250318172351	03/18/25 17:23		
CCV	CVAA90318251753	20250318175322	03/18/25 17:53		
CCB	CVAA90318251756	20250318175601	03/18/25 17:56		
FLYASH-S-SO	L1835560-07	20250318180351	03/18/25 18:03	1	WG2470128
BLANK	R4187915-1	20250318180634	03/18/25 18:06	1	WG2470129
LCS	R4187915-2	20250318180904	03/18/25 18:09	1	WG2470129
OS	L1835267-01	20250318181147	03/18/25 18:11		
L1835267-01	L1835267-01	20250318181147	03/18/25 18:11	1	WG2470129
SD	R4187915-3	20250318181430	03/18/25 18:14	5	WG2470129
MS	R4187915-4	20250318181713	03/18/25 18:17	1	WG2470129
MSD	R4187915-5	20250318181956	03/18/25 18:19	1	WG2470129
L1835267-02	L1835267-02	20250318182240	03/18/25 18:22	1	WG2470129
CCV	CVAA90318251825	20250318182523	03/18/25 18:25		
CCB	CVAA90318251828	20250318182801	03/18/25 18:28		
L1835270-01	L1835270-01	20250318183025	03/18/25 18:30	1	WG2470129
L1835270-02	L1835270-02	20250318183308	03/18/25 18:33	1	WG2470129
L1835270-03	L1835270-03	20250318183551	03/18/25 18:35	1	WG2470129
L1835270-04	L1835270-04	20250318183834	03/18/25 18:38	1	WG2470129
L1835277-01	L1835277-01	20250318184118	03/18/25 18:41	1	WG2470129
PS	R4187888-6	20250318184934	03/18/25 18:49	1	WG2470128
CCV	CVAA90318251900	20250318190025	03/18/25 19:00		
CCB	CVAA90318251903	20250318190303	03/18/25 19:03		

ANALYSIS LOG

SDG:	L1835560	**Analytical Method:**	7471B
Instrument ID:	CVAA9	**Calibration Start Date:**	03/19/25 11:09
Analytical Run:	031925CVAA9 S	**Calibration End Date:**	03/19/25 11:22

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	CVAA90319251106	20250319110650	03/19/25 11:06		
CAL	STD 0.2	20250319110927	03/19/25 11:09		
CAL	STD 0.4	20250319111205	03/19/25 11:12		
CAL	STD 1.0	20250319111444	03/19/25 11:14		
CAL	STD 2.0	20250319111723	03/19/25 11:17		
CAL	STD 5.0	20250319112003	03/19/25 11:20		
CAL	STD 10.0	20250319112240	03/19/25 11:22		
ICV	CVAA90319251126	20250319112639	03/19/25 11:26		
ICB	CVAA90319251129	20250319112917	03/19/25 11:29		
ICVLL	CVAA90319251143	20250319114322	03/19/25 11:43		
CCV	CVAA90319251331	20250319133100	03/19/25 13:31		
CCB	CVAA90319251333	20250319133339	03/19/25 13:33		
BLANK	R4188270-5	20250319135133	03/19/25 13:51	1	WG2470122
LCS	R4188270-6	20250319135412	03/19/25 13:54	1	WG2470122
OS	L1835126-02	20250319135652	03/19/25 13:56		
L1835126-02	L1835126-02	20250319135652	03/19/25 13:56	1	WG2470122
SD	R4188270-7	20250319135932	03/19/25 13:59	5	WG2470122
MS	R4188270-8	20250319140211	03/19/25 14:02	1	WG2470122
CCV	CVAA90319251404	20250319140450	03/19/25 14:04		
CCB	CVAA90319251407	20250319140728	03/19/25 14:07		
MSD	R4188270-9	20250319141005	03/19/25 14:10	1	WG2470122
CCV	CVAA90319251436	20250319143631	03/19/25 14:36		
CCB	CVAA90319251439	20250319143910	03/19/25 14:39		
CLINTON-SCHOOL-DITCH-S-SO	L1835560-01	20250319145228	03/19/25 14:52	1	WG2470122
18-901-S-SO	L1835560-02	20250319145508	03/19/25 14:55	1	WG2470122
K-18-S-SO	L1835560-03	20250319145748	03/19/25 14:57	1	WG2470122
P-230-S-SO	L1835560-04	20250319150028	03/19/25 15:00	1	WG2470122
P-350-S-SO	L1835560-05	20250319150309	03/19/25 15:03	1	WG2470122
NHR-S-SO	L1835560-06	20250319150549	03/19/25 15:05	1	WG2470122
CCV	CVAA90319251508	20250319150830	03/19/25 15:08		
CCB	CVAA90319251511	20250319151108	03/19/25 15:11		
CCV	CVAA90319251616	20250319161606	03/19/25 16:16		
CCB	CVAA90319251618	20250319161845	03/19/25 16:18		
BLANK	R4188475-1	20250319162757	03/19/25 16:27	1	WG2470127
LCS	R4188475-2	20250319163038	03/19/25 16:30	1	WG2470127
OS	L1835378-09	20250319163319	03/19/25 16:33		
L1835378-09	L1835378-09	20250319163319	03/19/25 16:33	1	WG2470127
SD	R4188475-3	20250319163600	03/19/25 16:36	5	WG2470127
MS	R4188475-4	20250319163841	03/19/25 16:38	1	WG2470127
MSD	R4188475-5	20250319164120	03/19/25 16:41	1	WG2470127
CCV	CVAA90319251649	20250319164921	03/19/25 16:49		
CCB	CVAA90319251651	20250319165159	03/19/25 16:51		
MONTROSE-LAKE-S-SO	L1835560-08	20250319170759	03/19/25 17:07	1	WG2470127
L1835568-01	L1835568-01	20250319171040	03/19/25 17:10	1	WG2470127
L1835568-02	L1835568-02	20250319171321	03/19/25 17:13	1	WG2470127
L1835568-03	L1835568-03	20250319171602	03/19/25 17:16	1	WG2470127
L1835568-04	L1835568-04	20250319171843	03/19/25 17:18	1	WG2470127
CCV	CVAA90319251721	20250319172124	03/19/25 17:21		
CCB	CVAA90319251724	20250319172402	03/19/25 17:24		
CCVLL	CVAA90319251727	20250319172711	03/19/25 17:27		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/18/25 09:16
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/18/25 09:29
Analytical Method:	7471B	**Analytical Run:**	031825CVAA9 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0002	.0001792167	89.60	0.0004	.0003346563	83.70
File ID:		20250318091643			20250318091920	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/18/25 09:16
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/18/25 09:29
Analytical Method:	7471B	**Analytical Run:**	031825CVAA9 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0010	.0009569626	95.70	0.0020	.002085898	104
File ID:		20250318092159			20250318092438	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/18/25 09:16
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/18/25 09:29
Analytical Method:	7471B	**Analytical Run:**	031825CVAA9 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0050	.005024001	100	0.01	.009978152	99.80
File ID:		20250318092718			20250318092956	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0002	.0001690958	84.50	0.0004	.0003702083	92.60
File ID:		20250319110927			20250319111205	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0010	.001067663	107	0.0020	.002024634	101
File ID:		20250319111444			20250319111723	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0050	.00508807	102	0.01	.00994608	99.50
File ID:		20250319112003			20250319112240	

16A-IN

INITIAL CALIBRATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/18/25 09:16
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/18/25 09:29
Analytical Method:	7471B	**Analytical Run:**	031825CVAA9 S

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
MERCURY	253.7	0	5	0.999897	17.92086	-0.000737

Calibration Type

0 = Linear Regression

Weightage

5 = None

16A-IN

INITIAL CALIBRATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
MERCURY	253.7	0	5	0.999864	22.29176	0.001466
MERCURY	253.7	0	5	0.999864	22.29176	0.001466

Calibration Type

0 = Linear Regression

Weightage

5 = None

Sample ID: CALIBRATION BLANK Units: mg/kg
Analyzed: 03/18/25 09:14 Sequence: 1 Standard ID:

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.002645829	0.002664557	0.002741288	0.002531641

Sample ID: STD 0.2 Units: mg/kg
Analyzed: 03/18/25 09:16 Sequence: 2 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.002474955	0.002685824	0.002353477	0.002385564

Sample ID: STD 0.4 Units: mg/kg
Analyzed: 03/18/25 09:19 Sequence: 3 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.005260566	0.005429255	0.005091649	0.005260794

Sample ID: STD 1.0 Units: mg/kg
Analyzed: 03/18/25 09:21 Sequence: 4 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.01641283	0.01720713	0.01619528	0.01583610

Sample ID: STD 2.0 Units: mg/kg
Analyzed: 03/18/25 09:24 Sequence: 5 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.03664432	0.03843126	0.03460125	0.03690046

Sample ID: STD 5.0 Units: mg/kg
Analyzed: 03/18/25 09:27 Sequence: 6 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.08929766	0.09241327	0.08869422	0.08678550

Sample ID: STD 10.0 Units: mg/kg
Analyzed: 03/18/25 09:29 Sequence: 7 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.1780803	0.1820884	0.1753079	0.1768446

Sample ID: ICV Units: mg/kg
Analyzed: 03/18/25 09:39 Sequence: 8 Standard ID: 25C14191

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.08938113	0.005028659	0.005164166	0.004935488	0.004986324

Sample ID: ICB Units: mg/kg
Analyzed: 03/18/25 09:41 Sequence: 9

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0004754560	0.00001458104	0.00004028053	-0.000002805933	0.000006268534

Sample ID: ICVLL Units: mg/kg
Analyzed: 03/18/25 09:58 Sequence: 12 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002942307	0.0002052953	0.0002255622	0.0001913837	0.0001989400

Sample ID: CCV Units: mg/kg
Analyzed: 03/18/25 16:18 Sequence: 135 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.09012431	0.005070129	0.005233159	0.004987279	0.004989950

Sample ID: CCB Units: mg/kg
Analyzed: 03/18/25 16:20 Sequence: 136

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.001860892	-0.00006272753	-0.00005352360	-0.00006762716	-0.00006703184

Sample ID: BLANK DF: 1x Batch: WG2470128 Units: mg/kg
Analyzed: 03/18/25 16:44 Sequence: 145

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.002544204	-0.0001008569	-0.0001064032	-0.0001039262	-0.00009224144

Sample ID: LCS DF: 1x Batch: WG2470128 Units: mg/kg
Analyzed: 03/18/25 16:46 Sequence: 146

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06237388	0.003521631	0.003614641	0.003470713	0.003479538

Sample ID: CCV Units: mg/kg
Analyzed: 03/18/25 16:49 Sequence: 147 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.08971744	0.005047426	0.005183665	0.004987895	0.004970717

Sample ID: CCB Units: mg/kg
Analyzed: 03/18/25 16:52 Sequence: 148

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.001618766	-0.00004921666	-0.00003681400	-0.00004883974	-0.00006199625

Sample ID: L1835321-05 DF: 1x Batch: WG2470128 Units: mg/kg
Analyzed: 03/18/25 16:54 Sequence: 149

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0002549564	0.00002688512	0.00002846821	0.00002515176	0.00002703539

Sample ID: SD DF: 5x Ref Sample ID: L1835321-05 Batch: WG2470128 Units: mg/kg
Analyzed: 03/18/25 16:57 Sequence: 150

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.002075482	-0.00007470182	-0.0003865173	-0.0003575359	-0.0003764742

Sample ID: MS DF: 1x Ref Sample ID: L1835321-05 Batch: WG2470128 Units: mg/kg
Analyzed: 03/18/25 16:59 Sequence: 151

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06259714	0.003534088	0.003565376	0.003528625	0.003508265

Sample ID: MSD DF: 1x Ref Sample ID: L1835321-05 Batch: WG2470128 Units: mg/kg
Analyzed: 03/18/25 17:02 Sequence: 152

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06194073	0.003497460	0.003568582	0.003447689	0.003476110

Sample ID: CCV Units: mg/kg
Analyzed: 03/18/25 17:21 Sequence: 159 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.08861564	0.004985944	0.005119233	0.004936803	0.004901796

Sample ID: CCB Units: mg/kg
Analyzed: 03/18/25 17:23 Sequence: 160

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.001637431	-0.00005025819	-0.00004241117	-0.00005777084	-0.00005059256

Sample ID: CCV Units: mg/kg
Analyzed: 03/18/25 17:53 Sequence: 171 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.08842572	0.004975346	0.005125478	0.004896369	0.004904191

Sample ID: CCB Units: mg/kg
Analyzed: 03/18/25 17:56 Sequence: 172

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.001695237	-0.00005348383	-0.00003964766	-0.00006064797	-0.00006015587

Sample ID: L1835560-07 DF: 1x Batch: WG2470128 Units: mg/kg
Analyzed: 03/18/25 18:03 Sequence: 175

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.08024141	0.004518654	0.004669322	0.004387515	0.004499126

Sample ID: BLANK DF: 1x Batch: WG2470129 Units: mg/kg
Analyzed: 03/18/25 18:06 Sequence: 176

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.002260925	-0.00008504975	-0.00007626732	-0.00008684417	-0.00009203776

Sample ID: LCS DF: 1x Batch: WG2470129 Units: mg/kg
Analyzed: 03/18/25 18:09 Sequence: 177

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06119321	0.003455748	0.003540451	0.003408145	0.003418648

Sample ID: L1835267-01 DF: 1x Batch: WG2470129 Units: mg/kg
Analyzed: 03/18/25 18:11 Sequence: 178

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.01545008	0.0009032400	0.0009452114	0.0008925751	0.0008719336

Sample ID: SD DF: 5x Ref Sample ID: L1835267-01 Batch: WG2470129 Units: mg/kg
Analyzed: 03/18/25 18:14 Sequence: 179

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001533341	0.0001266737	0.0007306323	0.0006106989	0.0005587747

Sample ID: MS DF: 1x Ref Sample ID: L1835267-01 Batch: WG2470129 Units: mg/kg
Analyzed: 03/18/25 18:17 Sequence: 180

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.08078100	0.004548764	0.004620918	0.004503855	0.004521520

Sample ID: MSD DF: 1x Ref Sample ID: L1835267-01 Batch: WG2470129 Units: mg/kg
Analyzed: 03/18/25 18:19 Sequence: 181

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.07768784	0.004376163	0.004502135	0.004324886	0.004301469

Sample ID: L1835267-02 DF: 1x Batch: WG2470129 Units: mg/kg
Analyzed: 03/18/25 18:22 Sequence: 182

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.006610044	0.0004099583	0.0004827697	0.0003873044	0.0003598008

Sample ID: CCV Units: mg/kg
Analyzed: 03/18/25 18:25 Sequence: 183 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.08726580	0.004910622	0.005016630	0.004859631	0.004855605

Sample ID: CCB Units: mg/kg
Analyzed: 03/18/25 18:28 Sequence: 184

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.001606570	-0.00004853611	-0.00003862287	-0.00004706202	-0.00005992346

Sample ID: L1835270-01 DF: 1x Batch: WG2470129 Units: mg/kg
Analyzed: 03/18/25 18:30 Sequence: 185

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001830849	0.0001432750	0.0001628184	0.0001388502	0.0001281563

Sample ID: L1835270-02 DF: 1x Batch: WG2470129 Units: mg/kg
Analyzed: 03/18/25 18:33 Sequence: 186

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002201014	0.0001639305	0.0001688866	0.0001653095	0.0001575953

Sample ID: L1835270-03 DF: 1x Batch: WG2470129 Units: mg/kg
Analyzed: 03/18/25 18:35 Sequence: 187

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0004117621	0.00006408861	0.00006682438	0.00006215030	0.00006329116

Sample ID: L1835270-04 DF: 1x Batch: WG2470129 Units: mg/kg
Analyzed: 03/18/25 18:38 Sequence: 188

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002598352	0.0001861023	0.0001927868	0.0001794401	0.0001860799

Sample ID: L1835277-01 DF: 1x Batch: WG2470129 Units: mg/kg
Analyzed: 03/18/25 18:41 Sequence: 189

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.002095903	-0.00007584133	-0.00007633988	-0.00007599978	-0.00007518433

Sample ID: PS DF: 1x Ref Sample ID: L1835321-05 Batch: WG2470128 Units: mg/kg
Analyzed: 03/18/25 18:49 Sequence: 191

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03630727	0.002067090	0.002117104	0.002044758	0.002039408

Sample ID: CCV Units: mg/kg
Analyzed: 03/18/25 19:00 Sequence: 195 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.09245780	0.005200340	0.005328727	0.005149216	0.005123078

Sample ID: CCB Units: mg/kg
Analyzed: 03/18/25 19:03 Sequence: 196

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.002461140	-0.00009622193	-0.00008937392	-0.0001011921	-0.00009809974

Sample ID: CALIBRATION BLANK Units: mg/kg
Analyzed: 03/19/25 11:06 Sequence: 1 Standard ID:

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.0001849035	0.0001516996	0.0001541954	0.0002488155

Sample ID: STD 0.2 Units: mg/kg
Analyzed: 03/19/25 11:09 Sequence: 2 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.005235204	0.004852522	0.005684252	0.005168838

Sample ID: STD 0.4 Units: mg/kg
Analyzed: 03/19/25 11:12 Sequence: 3 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.009718356	0.009913081	0.009287603	0.009954383

Sample ID: STD 1.0 Units: mg/kg
Analyzed: 03/19/25 11:14 Sequence: 4 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.02526585	0.02543715	0.02492830	0.02543211

Sample ID: STD 2.0 Units: mg/kg
Analyzed: 03/19/25 11:17 Sequence: 5 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.04659842	0.04727747	0.04607168	0.04644612

Sample ID: STD 5.0 Units: mg/kg
Analyzed: 03/19/25 11:20 Sequence: 6 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.1148878	0.1160191	0.1144379	0.1142066

Sample ID: STD 10.0 Units: mg/kg
Analyzed: 03/19/25 11:22 Sequence: 7 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.2231814	0.2267777	0.2222505	0.2205159

Sample ID: ICV Units: mg/kg
Analyzed: 03/19/25 11:26 Sequence: 8 Standard ID: 25C14191

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.1129296	0.005000227	0.005054703	0.004974649	0.004971327

Sample ID: ICB Units: mg/kg
Analyzed: 03/19/25 11:29 Sequence: 9

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00006938984	-0.00006264097	-0.00006448654	-0.00006930579	-0.00005413058

Sample ID: ICVLL Units: mg/kg
Analyzed: 03/19/25 11:43 Sequence: 12 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.005605132	0.0001856904	0.0001853696	0.0001781021	0.0001935994

Sample ID: CCV Units: mg/kg
Analyzed: 03/19/25 13:31 Sequence: 48 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.1099413	0.004866173	0.004962753	0.004800201	0.004835566

Sample ID: CCB Units: mg/kg
Analyzed: 03/19/25 13:33 Sequence: 49

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00009166753	-0.00006164160	-0.00005937675	-0.00006247362	-0.00006307444

Sample ID: BLANK DF: 1x Batch: WG2470122 Units: mg/kg
Analyzed: 03/19/25 13:51 Sequence: 55

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00002224229	-0.00006475599	-0.00006571320	-0.00006557800	-0.00006297678

Sample ID: LCS DF: 1x Batch: WG2470122 Units: mg/kg
Analyzed: 03/19/25 13:54 Sequence: 56

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05555754	0.002426537	0.002474008	0.002400886	0.002404716

Sample ID: L1835126-02 DF: 1x Batch: WG2470122 Units: mg/kg
Analyzed: 03/19/25 13:56 Sequence: 57

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.008415013	0.0003117406	0.0003214814	0.0003069301	0.0003068102

Sample ID: SD DF: 5x Ref Sample ID: L1835126-02 Batch: WG2470122 Units: mg/kg
Analyzed: 03/19/25 13:59 Sequence: 58

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001654963	0.000008487270	0.00006444001	0.00003217321	0.00003069583

Sample ID: MS DF: 1x Ref Sample ID: L1835126-02 Batch: WG2470122 Units: mg/kg
Analyzed: 03/19/25 14:02 Sequence: 59

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.07169379	0.003150403	0.003206879	0.003130632	0.003113698

Sample ID: CCV Units: mg/kg
Analyzed: 03/19/25 14:04 Sequence: 60 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.1106097	0.004896157	0.005018722	0.004843330	0.004826418

Sample ID: CCB Units: mg/kg
Analyzed: 03/19/25 14:07 Sequence: 61

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001739417	-0.00005795081	-0.00005468583	-0.00005827975	-0.00006088686

Sample ID: MSD DF: 1x Ref Sample ID: L1835126-02 Batch: WG2470122 Units: mg/kg
Analyzed: 03/19/25 14:10 Sequence: 62

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.07560425	0.003325825	0.003383832	0.003309273	0.003284371

Sample ID: CCV Units: mg/kg
Analyzed: 03/19/25 14:36 Sequence: 72 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.1104087	0.004887138	0.004980287	0.004851874	0.004829252

Sample ID: CCB Units: mg/kg
Analyzed: 03/19/25 14:39 Sequence: 73

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002190497	-0.00005592728	-0.00005270647	-0.00005731420	-0.00005776118

Sample ID: L1835560-01 DF: 1x Batch: WG2470122 Units: mg/kg
Analyzed: 03/19/25 14:52 Sequence: 78

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001519816	0.000002424600	0.000001542860	0.000001773871	0.000003957069

Sample ID: L1835560-02 DF: 1x Batch: WG2470122 Units: mg/kg
Analyzed: 03/19/25 14:55 Sequence: 79

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001812560	0.00001555701	0.00001693502	0.00001564353	0.00001409248

Sample ID: L1835560-03 DF: 1x Batch: WG2470122 Units: mg/kg
Analyzed: 03/19/25 14:57 Sequence: 80

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001773326	0.00001379698	0.00001406524	0.00001536313	0.00001196256

Sample ID: L1835560-04 DF: 1x Batch: WG2470122 Units: mg/kg
Analyzed: 03/19/25 15:00 Sequence: 81

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002273186	0.00003622050	0.00003935148	0.00003276317	0.00003654685

Sample ID: L1835560-05 DF: 1x Batch: WG2470122 Units: mg/kg
Analyzed: 03/19/25 15:03 Sequence: 82

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002068519	0.00002703923	0.00002820778	0.00002429863	0.00002861128

Sample ID: L1835560-06 DF: 1x Batch: WG2470122 Units: mg/kg
Analyzed: 03/19/25 15:05 Sequence: 83

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002871412	0.00006305671	0.00006399267	0.00006204717	0.00006313028

Sample ID: CCV Units: mg/kg
Analyzed: 03/19/25 15:08 Sequence: 84 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.1097691	0.004858446	0.004956609	0.004798856	0.004819873

Sample ID: CCB Units: mg/kg
Analyzed: 03/19/25 15:11 Sequence: 85

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002232284	-0.00005573983	-0.00005671835	-0.00005367929	-0.00005682184

Sample ID: CCV Units: mg/kg
Analyzed: 03/19/25 16:16 Sequence: 108 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.1096727	0.004854121	0.004965569	0.004794989	0.004801807

Sample ID: CCB Units: mg/kg
Analyzed: 03/19/25 16:18 Sequence: 109

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001399217	-0.00005947694	-0.00005949612	-0.00005827673	-0.00006065795

Sample ID: BLANK DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:27 Sequence: 112

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001341814	-0.00005973444	-0.00005126989	-0.00006515282	-0.00006278062

Sample ID: LCS DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:30 Sequence: 113

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05955574	0.002605895	0.002644861	0.002585262	0.002587561

Sample ID: L1835378-09 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:33 Sequence: 114

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002225954	0.00003410171	0.00003751013	0.00003251467	0.00003228031

Sample ID: SD DF: 5x Ref Sample ID: L1835378-09 Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:36 Sequence: 115

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0003751392	-0.00004892517	-0.0002362893	-0.0002501280	-0.0002474602

Sample ID: MS DF: 1x Ref Sample ID: L1835378-09 Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:38 Sequence: 116

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06560915	0.002877448	0.002938182	0.002852096	0.002842068

Sample ID: MSD DF: 1x Ref Sample ID: L1835378-09 Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:41 Sequence: 117

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06740487	0.002958004	0.003021343	0.002929411	0.002923257

Sample ID: CCV Units: mg/kg
Analyzed: 03/19/25 16:49 Sequence: 120 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.1097679	0.004858395	0.004952259	0.004813696	0.004809229

Sample ID: CCB Units: mg/kg
Analyzed: 03/19/25 16:51 Sequence: 121

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00009938170	-0.00006129555	-0.00006056102	-0.00006011007	-0.00006321556

Sample ID: L1835560-08 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:07 Sequence: 127

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002127250	0.00002967387	0.00003231030	0.00002741178	0.00002929955

Sample ID: L1835568-01 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:10 Sequence: 128

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001796751	0.00001484783	0.00001736725	0.00001315114	0.00001402509

Sample ID: L1835568-02 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:13 Sequence: 129

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001886785	0.00001888672	0.00002089226	0.00001898190	0.00001678600

Sample ID: L1835568-03 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:16 Sequence: 130

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002174317	0.00003178527	0.00003494759	0.00002946317	0.00003094507

Sample ID: L1835568-04 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:18 Sequence: 131

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002731642	0.00005678668	0.00005870562	0.00005667573	0.00005497868

Sample ID: CCV Units: mg/kg
Analyzed: 03/19/25 17:21 Sequence: 132 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.1089200	0.004820355	0.004926031	0.004744516	0.004790519

Sample ID: CCB Units: mg/kg
Analyzed: 03/19/25 17:24 Sequence: 133

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001337378	-0.00005975434	-0.00005532885	-0.00005841480	-0.00006551939

Sample ID: CCVLL Units: mg/kg
Analyzed: 03/19/25 17:27 Sequence: 134 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.005280036	0.0001711067	0.0001705541	0.0001697324	0.0001730335

7471A SS HG Metals Prep Benchsheet

Batch: WG2470122

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835126	WG2469575	BJM688	PREPREPBAL1	15-MAR-25
L1835126	WG2469580	BJM688	PREPREPBAL1	15-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25

Analyst: NDL4057 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5017-IM **Hotblock ID:** HG2 **2min Cook Temp:** 96
15min KMNO4 HoldTime: 03/18/25 12:43:19 **Hotblock Time On:** 03/18/25 12:57:19 **Uncorrected Temp On:** 96 **Corrected Temp On:** 96
Hotblock Time Off: 03/18/25 13:27:19 **Uncorrected Temp Off:** 98 **Corrected Temp Off:** 98 **Thermometer Correction Factor:** 0.00 **Digestion Chips Lot #:** 25B02756
Prep Date: 03/17/25 17:22-17:24 **Prep End Date/Time:** 03/18/25 14:30 **Calibration and Instrument Stds:** 25C18674 **Method:** 7471A **SOP:** ENV-SOP-MTJL-0213
Thermometer ID#: 1042606 **Pipette Tip Lot#:** 24440172 **Cal and Stds Workgroup:** WG2470133 **Thermometer Location:** D4 **Pipette ID:** VU23217 **Sieve ID:** NA
Sieve Size: NA **Repeat Pipette ID:** 24B38914 **Repeat Pipette Tip Lot#:** N215100J

LCS/MS Spike: 25C14191 Amt. Used: 150 uL Exp. Date:03/21/25 **Aqua Regia:** 25C18675 Amt. Used: 2.50 mL Exp. Date:03/18/25
KMNO4: 25C16400 Amt. Used: 7.50 mL Exp. Date:03/23/25 **H8N2O6S:** 25C12815 Amt. Used: 3 mL Exp. Date:03/19/25 **SnCl:** 25C18676 mL Exp. Date:03/18/25
HCl: 25C18677 mL Exp. Date:03/18/25

Sample ID	Matrix	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Box ID	Review Analyst	Review Date
BLANK		0.30	50	RESIN PELLETS		NDL4057	03/18/25 14:30:09
LCS		0.30	50	RESIN PELLETS		NDL4057	03/18/25 14:30:09
MS(L1835126-02)		0.29	50	BROWN SOIL	3/15 PP1 SAT 4	NDL4057	03/18/25 14:30:09
MSD(L1835126-02)		0.28	50	BROWN SOIL	3/15 PP1 SAT 4	NDL4057	03/18/25 14:30:09
1. L1835126-01	SS	0.33	50	BROWN SOIL	3/15 PP1 SAT 4	NDL4057	03/18/25 14:30:09
2. L1835126-02	SS	0.30	50	BROWN SOIL	3/15 PP1 SAT 4	NDL4057	03/18/25 14:30:09
3. L1835126-04	SS	0.35	50	BROWN SOIL	3/15 PP1 SAT 4	NDL4057	03/18/25 14:30:09
4. L1835126-05	SS	0.30	50	BROWN SOIL	3/15 PP1 SAT 4	NDL4057	03/18/25 14:30:09
5. L1835126-06	SS	0.34	50	BROWN SOIL	3/15 PP1 SAT 4	NDL4057	03/18/25 14:30:09
6. L1835126-08	SS	0.33	50	BROWN SOIL	3/15 PP1 SAT 4	NDL4057	03/18/25 14:30:09
7. L1835126-10	SS	0.27	50	BROWN SOIL	3/15 PP1 SAT 4	NDL4057	03/18/25 14:30:09
8. L1835126-11	SS	0.27	50	BROWN SOIL	3/15 PP1 SAT 4	NDL4057	03/18/25 14:30:09
9. L1835126-12	SS	0.33	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:09
10. L1835126-14	SS	0.34	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:09
11. L1835126-16	SS	0.35	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:09
12. L1835126-17	SS	0.34	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:09
13. L1835126-18	SS	0.32	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:09
14. L1835126-20	SS	0.31	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:09
15. L1835560-01	SS	0.33	50	BROWN SOIL		NDL4057	03/18/25 14:30:09
16. L1835560-02	SS	0.35	50	BROWN SOIL		NDL4057	03/18/25 14:30:09
17. L1835560-03	SS	0.28	50	BROWN SOIL		NDL4057	03/18/25 14:30:09
18. L1835560-04	SS	0.32	50	BROWN SOIL		NDL4057	03/18/25 14:30:09
19. L1835560-05	SS	0.35	50	BROWN SOIL		NDL4057	03/18/25 14:30:09
20. L1835560-06	SS	0.33	50	BROWN SOIL		NDL4057	03/18/25 14:30:09

Comments:

Reviewed By:NDL4057 on 03/18/25 14:30:09

7471A SS HG Metals Prep Benchsheet

Batch: WG2470127

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835285	WG2469408	BJM688	PREPREPBAL4	15-MAR-25
L1835285	WG2469413	BJM688	PREPREPBAL1	15-MAR-25
L1835378	WG2469548	BJM688	PREPREPBAL1	14-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25
L1835978	WG2469859	KMT967	PREPREPBAL4	15-MAR-25

Analyst: NDL4057 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5017-IM **Hotblock ID:** HG2 **2min Cook Temp:** 96
15min KMNO4 HoldTime: 03/18/25 12:43:24 **Hotblock Time On:** 03/18/25 12:57:24 **Uncorrected Temp On:** 96 **Corrected Temp On:** 96
Hotblock Time Off: 03/18/25 13:27:24 **Uncorrected Temp Off:** 98 **Corrected Temp Off:** 98 **Thermometer Correction Factor:** 0.00 **Digestion Chips Lot #:** 25B02756
Prep Date: 03/17/25 17:19-17:20 **Prep End Date/Time:** 03/18/25 14:30 **Calibration and Instrument Stds:** 25C18674 **Method:** 7471A **SOP:** ENV-SOP-MTJL-0213
Thermometer ID#: 1042606 **Pipette Tip Lot#:** 24440172 **Cal and Stds Workgroup:** WG2470133 **Thermometer Location:** D4 **Pipette ID:** VU23217 **Sieve ID:** NA
Sieve Size: NA **Repeat Pipette ID:** 24B38914 **Repeat Pipette Tip Lot#:** N215100J

LCS/MS Spike: 25C14191 Amt. Used: 150 uL Exp. Date:03/21/25 **Aqua Regia:** 25C18675 Amt. Used: 2.50 mL Exp. Date:03/18/25
KMNO4: 25C16400 Amt. Used: 7.50 mL Exp. Date:03/23/25 **H8N2O6S:** 25C12815 Amt. Used: 3 mL Exp. Date:03/19/25 **SnCl:** 25C18676 mL Exp. Date:03/18/25
HCl: 25C18677 mL Exp. Date:03/18/25

Sample ID	Matrix	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Box ID	Review Analyst	Review Date
BLANK		0.30	50	RESIN PELLETS		NDL4057	03/18/25 14:30:52
LCS		0.30	50	RESIN PELLETS		NDL4057	03/18/25 14:30:52
MS(L1835378-09)		0.31	50	BROWN SOIL	Fri-7/PP1 0314	NDL4057	03/18/25 14:30:52
MSD(L1835378-09)		0.29	50	BROWN SOIL	Fri-7/PP1 0314	NDL4057	03/18/25 14:30:52
1. L1835285-16	SS	0.30	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
2. L1835285-18	SS	0.31	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
3. L1835285-19	SS	0.33	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
4. L1835285-20	SS	0.27	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:52
5. L1835285-21	SS	0.29	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:52
6. L1835285-22	SS	0.32	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:52
7. L1835285-23	SS	0.31	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:52
8. L1835378-09	SS	0.30	50	BROWN SOIL	Fri-7/PP1 0314	NDL4057	03/18/25 14:30:52
9. L1835560-08	SS	0.31	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
10. L1835568-01	SS	0.34	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
11. L1835568-02	SS	0.33	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
12. L1835568-03	SS	0.30	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
13. L1835568-04	SS	0.34	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
14. L1835568-05	SS	0.34	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
15. L1835568-06	SS	0.30	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
16. L1835568-07	SS	0.35	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
17. L1835568-08	SS	0.32	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
18. L1835568-09	SS	0.28	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
19. L1835978-01	SS	0.29	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
20. L1835978-02	SS	0.33	50	BROWN SOIL		NDL4057	03/18/25 14:30:52

Comments:

Reviewed By:NDL4057 on 03/18/25 14:30:52

7471A SS HG Metals Prep Benchsheet

Batch: WG2470128

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835285	WG2469413	BJM688	PREPREPBAL1	15-MAR-25
L1835285	WG2469419	BJM688	PREPREPBAL1	15-MAR-25
L1835321	WG2469551	BJM688	PREPREPBAL2	15-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25

Analyst: AKB3794 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5017-IM **Hotblock ID:** HG2 **2min Cook Temp:** 95
15min KMNO4 HoldTime: 03/17/25 20:10:30 **Hotblock Time On:** 03/17/25 20:25:30 **Uncorrected Temp On:** 95 **Corrected Temp On:** 95
Hotblock Time Off: 03/17/25 20:55:30 **Uncorrected Temp Off:** 97 **Corrected Temp Off:** 97 **Thermometer Correction Factor:** 0.0 **Digestion Chips Lot #:** 25B02756
Prep Date: 03/17/25 17:07-17:08 **Prep End Date/Time:** 03/17/25 22:06 **Calibration and Instrument Stds:** 25C17402 **Method:** 7471A **SOP:** ENV-SOP-MTJL-0213
Thermometer ID#: 1042606 **Pipette Tip Lot#:** 24440172 **Cal and Stds Workgroup:** WG2469489 **Thermometer Location:** D3 **Pipette ID:** VU23217 **Sieve ID:** NA
Sieve Size: NA **Repeat Pipette ID:** 24B38914 **Repeat Pipette Tip Lot#:** N215100J

LCS/MS Spike: 25C14191 Amt. Used: 150 uL Exp. Date:03/21/25 **Aqua Regia:** 25C17403 Amt. Used: 2.50 mL Exp. Date:03/17/25
KMNO4: 25C16400 Amt. Used: 7.50 mL Exp. Date:03/23/25 **H8N2O6S:** 25C12815 Amt. Used: 3 mL Exp. Date:03/19/25 **SnCl:** 25C17404 mL Exp. Date:03/17/25
HCl: 25C17405 mL Exp. Date:03/17/25

Sample ID	Matrix	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Box ID	Review Analyst	Review Date
BLANK		0.30	50	RESIN PELLETS		SDG4113	03/17/25 22:07:05
LCS		0.30	50	RESIN PELLETS		SDG4113	03/17/25 22:07:05
MS(L1835321-05)		0.27	50	BROWN SOIL	SAT 1 - PP2 3/15	SDG4113	03/17/25 22:07:05
MSD(L1835321-05)		0.29	50	BROWN SOIL	SAT 1 - PP2 3/15	SDG4113	03/17/25 22:07:05
1. L1835285-24	SS	0.29	50	BROWN SOIL	3/15 PP1 SAT 5	SDG4113	03/17/25 22:07:05
2. L1835285-25	SS	0.27	50	BROWN SOIL	3/15 PP1 SAT 5	SDG4113	03/17/25 22:07:05
3. L1835285-26	SS	0.25	50	BROWN SOIL	3/15 PP1 SAT 5	SDG4113	03/17/25 22:07:05
4. L1835285-27	SS	0.30	50	BROWN SOIL	3/15 PP1 SAT 5	SDG4113	03/17/25 22:07:05
5. L1835285-28	SS	0.29	50	BROWN SOIL	3/15 PP1 SAT 5	SDG4113	03/17/25 22:07:05
6. L1835285-29	SS	0.28	50	BROWN SOIL	3/15 PP1 SAT 5	SDG4113	03/17/25 22:07:05
7. L1835285-30	SS	0.27	50	BROWN SOIL	3/15 PP1 SAT 6	SDG4113	03/17/25 22:07:05
8. L1835285-31	SS	0.35	50	BROWN SOIL	3/15 PP1 SAT 6	SDG4113	03/17/25 22:07:05
9. L1835285-32	SS	0.34	50	BROWN SOIL	3/15 PP1 SAT 6	SDG4113	03/17/25 22:07:05
10. L1835285-33	SS	0.25	50	BROWN SOIL	3/15 PP1 SAT 6	SDG4113	03/17/25 22:07:05
11. L1835285-34	SS	0.29	50	BROWN SOIL	3/15 PP1 SAT 6	SDG4113	03/17/25 22:07:05
12. L1835285-35	SS	0.25	50	BROWN SOIL	3/15 PP1 SAT 6	SDG4113	03/17/25 22:07:05
13. L1835285-36	SS	0.32	50	BROWN SOIL	3/15 PP1 SAT 6	SDG4113	03/17/25 22:07:05
14. L1835285-37	SS	0.28	50	BROWN SOIL	3/15 PP1 SAT 6	SDG4113	03/17/25 22:07:05
15. L1835321-01	SS	0.27	50	BROWN SOIL	SAT 1 - PP2 3/15	SDG4113	03/17/25 22:07:05
16. L1835321-02	SS	0.29	50	BROWN SOIL	SAT 1 - PP2 3/15	SDG4113	03/17/25 22:07:05
17. L1835321-03	SS	0.33	50	BROWN SOIL	SAT 1 - PP2 3/15	SDG4113	03/17/25 22:07:05
18. L1835321-04	SS	0.34	50	BROWN SOIL	SAT 1 - PP2 3/15	SDG4113	03/17/25 22:07:05
19. L1835321-05	SS	0.27	50	BROWN SOIL	SAT 1 - PP2 3/15	SDG4113	03/17/25 22:07:05
20. L1835560-07	SS	0.35	50	BROWN SOIL		SDG4113	03/17/25 22:07:05

Comments:

Reviewed By:SDG4113 on 03/17/25 22:07:05

7471A SS HG Metals Prep Benchsheet

Batch: WG2470129

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835267	WG2469429	BJM688	PREPREPBAL3	15-MAR-25
L1835270	WG2469429	BJM688	PREPREPBAL3	15-MAR-25
L1835277	WG2469429	BJM688	PREPREPBAL3	15-MAR-25
L1835297	WG2469440	BJM688	PREPREPBAL3	15-MAR-25

Analyst: AKB3794 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5017-IM **Hotblock ID:** HG1 **2min Cook Temp:** 96
15min KMNO4 HoldTime: 03/17/25 20:10:18 **Hotblock Time On:** 03/17/25 20:25:18 **Uncorrected Temp On:** 96 **Corrected Temp On:** 96
Hotblock Time Off: 03/17/25 20:55:18 **Uncorrected Temp Off:** 98 **Corrected Temp Off:** 98 **Thermometer Correction Factor:** 0.0 **Digestion Chips Lot #:** 25B02756
Prep Date: 03/17/25 14:13-17:12 **Prep End Date/Time:** 03/17/25 22:07 **Calibration and Instrument Stds:** 25C17402 **Method:** 7471A **SOP:** ENV-SOP-MTJL-0213
Thermometer ID#: 1042439 **Pipette Tip Lot#:** 24440172 **Cal and Stds Workgroup:** WG2469489 **Thermometer Location:** D3 **Pipette ID:** VU23217 **Sieve ID:** NA
Sieve Size: NA **Repeat Pipette ID:** 24B38914 **Repeat Pipette Tip Lot#:** N215100J

LCS/MS Spike: 25C14191 Amt. Used: 150 uL Exp. Date:03/21/25 **Aqua Regia:** 25C17403 Amt. Used: 2.50 mL Exp. Date:03/17/25
KMNO4: 25C16400 Amt. Used: 7.50 mL Exp. Date:03/23/25 **H8N2O6S:** 25C12815 Amt. Used: 3 mL Exp. Date:03/19/25 **SnCl:** 25C17404 mL Exp. Date:03/17/25
HCl: 25C17405 mL Exp. Date:03/17/25

Sample ID	Matrix	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Box ID	Review Analyst	Review Date
BLANK		0.30	50	RESIN PELLETS		SDG4113	03/17/25 22:07:38
LCS		0.30	50	RESIN PELLETS		SDG4113	03/17/25 22:07:38
MS(L1835267-01)		0.30	50	BROWN SOIL	pp3 3-15	SDG4113	03/17/25 22:07:38
MSD(L1835267-01)		0.32	50	BROWN SOIL	pp3 3-15	SDG4113	03/17/25 22:07:38
1. L1835267-01	SS	0.31	50	BROWN SOIL	pp3 3-15	SDG4113	03/17/25 22:07:38
2. L1835267-02	SS	0.30	50	BROWN SOIL	pp3 3-15	SDG4113	03/17/25 22:07:38
3. L1835270-01	SS	0.33	50	BROWN SOIL	pp3 3-15	SDG4113	03/17/25 22:07:38
4. L1835270-02	SS	0.35	50	BROWN SOIL	pp3 3-15	SDG4113	03/17/25 22:07:38
5. L1835270-03	SS	0.32	50	BROWN SOIL	pp3 3-15	SDG4113	03/17/25 22:07:38
6. L1835270-04	SS	0.32	50	BROWN SOIL	pp3 3-15	SDG4113	03/17/25 22:07:38
7. L1835277-01	SS	0.33	50	PAPER	pp3 3-15	SDG4113	03/17/25 22:07:38
8. L1835297-03	SS	0.32	50	BROWN SOIL	sat 2 / pp3 3-15	SDG4113	03/17/25 22:07:38
9. L1835297-04	SS	0.31	50	BROWN SOIL	sat 2 / pp3 3-15	SDG4113	03/17/25 22:07:38
10. L1835297-05	SS	0.31	50	BROWN SOIL	sat 2 / pp3 3-15	SDG4113	03/17/25 22:07:38
11. L1835297-06	SS	0.33	50	BROWN SOIL	sat 2 / pp3 3-15	SDG4113	03/17/25 22:07:38
12. L1835297-07	SS	0.31	50	BROWN SOIL	sat 2 / pp3 3-15	SDG4113	03/17/25 22:07:38
13. L1835297-08	SS	0.31	50	BROWN SOIL	sat 2 / pp3 3-15	SDG4113	03/17/25 22:07:38
14. L1835297-09	SS	0.35	50	BROWN SOIL	sat 2 / pp3 3-15	SDG4113	03/17/25 22:07:38
15. L1835297-10	SS	0.30	50	BROWN SOIL	sat 2 / pp3 3-15	SDG4113	03/17/25 22:07:38
16. L1835297-11	SS	0.30	50	BROWN SOIL	sat 2 / pp3 3-15	SDG4113	03/17/25 22:07:38
17. L1835297-12	SS	0.30	50	BROWN SOIL	sat 2 / pp3 3-15	SDG4113	03/17/25 22:07:38
18. L1835297-13	SS	0.31	50	BROWN SOIL	sat 2 / pp3 3-15	SDG4113	03/17/25 22:07:38
19. L1835297-14	SS	0.35	50	BROWN SOIL	sat 2 / pp3 3-15	SDG4113	03/17/25 22:07:38
20. L1835297-15	SS	0.31	50	BROWN SOIL	sat 2 / pp3 3-15	SDG4113	03/17/25 22:07:38

Comments:

Reviewed By:SDG4113 on 03/17/25 22:07:38

9056A Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-S-SO

Lab Sample ID:	L1835560-01	**SDG:**	L1835560
Client Sample ID:	CLINTON-SCHOOL-DITCH-S-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	49.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 21:56
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.16 g
Total Solids (%):	72.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	57.0	J	11.4	68.9

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-02	**SDG:**	L1835560
Client Sample ID:	18-901-S-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	50.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 22:11
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.07 g
Total Solids (%):	71.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		11.6	70.3

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
K-18-S-SO

Lab Sample ID:	L1835560-03	**SDG:**	L1835560
Client Sample ID:	K-18-S-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	51.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 22:32
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.22 g
Total Solids (%):	63.3	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	37.9	J	13.0	78.9

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-04	**SDG:**	L1835560
Client Sample ID:	P-230-S-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	52.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 22:47
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.03 g
Total Solids (%):	64.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	14.0	J	12.7	77.2

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-05	**SDG:**	L1835560
Client Sample ID:	P-350-S-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	53.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 23:03
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.07 g
Total Solids (%):	66.4	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	15.8	J	12.4	75.2

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
NHR-S-SO

Lab Sample ID:	L1835560-06	**SDG:**	L1835560
Client Sample ID:	NHR-S-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	59.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 00:38
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.21 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	414		10.2	62.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835560-07	**SDG:**	L1835560
Client Sample ID:	FLYASH-S-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	61.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 01:10
Dilution Factor:	10.3	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.85 g
Total Solids (%):	67.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	629	J	126	762

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-S-SO

Lab Sample ID:	L1835560-08	**SDG:**	L1835560
Client Sample ID:	MONTROSE-LAKE-S-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	62.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 01:26
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.06 g
Total Solids (%):	73.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	581		11.3	68.5

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187569-1	**SDG:**	L1835560
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	16.0000.txt	**Received Date/Time:**	_____
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 13:13
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187570-1	**SDG:**	L1835560
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	56.0000.txt	**Received Date/Time:**	_____
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/17/25 23:50
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187569-4	**SDG:**	L1835560
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 13:17
Lab File ID:	28.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 16:23
Dilution Factor:	10	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.12 g
Total Solids (%):	85.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	6350		96.2	584

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187569-5	**SDG:**	L1835560
Client Sample ID:	DUP	**Collected Date/Time:**	02/27/25 09:00
Lab File ID:	36.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 18:29
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.99 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	14.9	J P1	8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187570-3	**SDG:**	L1835560
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	60.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 00:54
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	469		10.2	62.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187570-4	**SDG:**	L1835560
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	73.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 04:20
Dilution Factor:	100	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	58.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		1400	8490

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187569-2	**SDG:**	L1835560
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	17.0000.txt	**Received Date/Time:**	_____
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 13:28
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	191		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187570-2	**SDG:**	L1835560
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	57.0000.txt	**Received Date/Time:**	_____
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 00:06
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	186		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187569-6	**SDG:**	L1835560
Client Sample ID:	MS	**Collected Date/Time:**	02/27/25 09:00
Lab File ID:	37.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 18:45
Dilution Factor:	1.02	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.9 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	213		8.40	51.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187570-5	**SDG:**	L1835560
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	74.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 04:36
Dilution Factor:	100	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	58.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	U	J6	1400	8490

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187569-7	**SDG:**	L1835560
Client Sample ID:	MSD	**Collected Date/Time:**	02/27/25 09:00
Lab File ID:	38.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/16/25 19:57
Analytical Batch:	WG2469046	**Analysis Date/Time:**	03/17/25 19:01
Dilution Factor:	1.02	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	4.92 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	210		8.40	51.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187570-6	**SDG:**	L1835560
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	75.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 04:52
Dilution Factor:	100	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	58.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U	J6	1400	8490

2-IN

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031025
Concentration Units:	mg/l		

SSCV

Sample ID: IC-100310252108

Analyte	True	Found	%R	%RSD
BROMIDE	40	39.532	98.80	
CHLORATE	2.50	2.2999	92	
CHLORIDE	40	40.044	100	
FLUORIDE	8	8.1676	102	
NITRATE	8	8.2014	103	
NITRITE	8	8.2604	103	
SULFATE	40	40.7608	102	

SSCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725
Concentration Units:	mg/l		

		ICV				**CCV**				**CCV**			
Sample ID:		IC-100317250906				IC-100317251654				IC-100317252052			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
SULFATE	50	47.8774	95.80		50	47.9439	95.90		50	48.0094	96	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725
Concentration Units:	mg/l		

		CCV				CCV				CCV			
Sample ID:		IC-100317252319				IC-100318250317				IC-100318250643			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
SULFATE	50	47.9979	96		50	47.9429	95.90		50	47.9187	95.80	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1835560	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031025

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	11.0000.txt	
Analyte	mg/l	
BROMIDE	0.0000	U
CHLORATE	0.0000	U
CHLORIDE	0.1851	U
FLUORIDE	0.03480	U
NITRATE	0.0000	U
NITRITE	0.0000	U
SULFATE	0.2219	U

SDG:	L1835560	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	16.0000.txt		31.0000.txt		46.0000.txt		55.0000.txt	
Analyte	mg/kg		mg/l		mg/l		mg/l	
SULFATE	U		0.0000	U	0.0000	U	0.0000	U

SDG:	L1835560	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

	Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
	File ID:	56.0000.txt		70.0000.txt		83.0000.txt	
Analyte		mg/kg		mg/l		mg/l	
SULFATE		U		0.2092	U	0.0000	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835560-01,02,03,04,05

SAMPLE NO.:
R4187569-6
R4187569-7

MS Sample / File ID:	R4187569-6 / 37.0000.txt	**SDG:**	L1835560
MSD Sample / File ID:	R4187569-7 / 38.0000.txt	**Analytical Batch:**	WG2469046
OS Sample / File ID:	L1835412-01 / 35.0000.txt	**Matrix:**	Solid
Instrument ID:	IC-10		
Analytical Method:	9056A		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Sulfate	200	18.0	213	210	97.4	96.1	1.02	80.0 - 120	1.19	15

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835560-06,07,08

SAMPLE NO.:
R4187570-5
R4187570-6

MS Sample / File ID:	R4187570-5 / 74.0000.txt	**SDG:**	L1835560
MSD Sample / File ID:	R4187570-6 / 75.0000.txt	**Analytical Batch:**	WG2470003
OS Sample / File ID:	L1835568-08 / 72.0000.txt	**Matrix:**	Solid
Instrument ID:	IC-10		
Analytical Method:	9056A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Sulfate	200	U	U	U	0.000*	0.000*	100	80.0 - 120	0.000	15

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187569-4 / 28.0000.txt	**SDG:**	L1835560
OS Sample / File ID:	L1835396-02 / 27.0000.txt	**Analytical Batch:**	WG2469046
Instrument ID:	IC-10	**Dilution Factor:**	10
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Sulfate	5690	6350	11.0	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187569-5 / 36.0000.txt	**SDG:**	L1835560
OS Sample / File ID:	L1835412-01 / 35.0000.txt	**Analytical Batch:**	WG2469046
Instrument ID:	IC-10	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/kg	*mg/kg*	*%*	*%*
Sulfate	18.0	14.9	18.5*	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187570-3 / 60.0000.txt	**SDG:**	L1835560
OS Sample / File ID:	L1835560-06 / 59.0000.txt	**Analytical Batch:**	WG2470003
Instrument ID:	IC-10	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Sulfate	414	469	12.4	15

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187570-4 / 73.0000.txt	**SDG:**	L1835560
OS Sample / File ID:	L1835568-08 / 72.0000.txt	**Analytical Batch:**	WG2470003
Instrument ID:	IC-10	**Dilution Factor:**	100
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Sulfate	U	U	0.000	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835560-01,02,03,04,05

SAMPLE NO.:
R4187569-2

LCS Sample / File ID:	R4187569-2 / 17.0000.txt	**SDG:**	L1835560
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2469046
Instrument ID:	IC-10	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Sulfate	200	191		95.5		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835560-06,07,08

SAMPLE NO.:
R4187570-2

LCS Sample / File ID:	R4187570-2 / 57.0000.txt	**SDG:**	L1835560
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2470003
Instrument ID:	IC-10	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Sulfate	200	186		93.1		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835560-01,02,03,04,05,06,07,08
Matrix: Solid
Analytical Method: 9056A
Prep Method: 9056

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Sulfate	14808-79-8			8.24	50

ANALYSIS LOG

SDG:	L1835560	**Analytical Method:**	9056A
Instrument ID:	IC-10	**Calibration Start Date:**	_____
Analytical Run:	031025	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	STD 1	3.0000.TXT	03/10/25 19:17		
CAL	STD 2	4.0000.TXT	03/10/25 19:33		
CAL	STD 3	5.0000.TXT	03/10/25 19:49		
CAL	STD 4	6.0000.TXT	03/10/25 20:05		
CAL	STD 5	7.0000.TXT	03/10/25 20:20		
CAL	STD 6	8.0000.TXT	03/10/25 20:36		
CAL	STD 7	9.0000.TXT	03/10/25 20:52		
SSCV	IC-100310252108	10.0000.txt	03/10/25 21:08		
ICB	IC-100310252124	11.0000.txt	03/10/25 21:24		

ANALYSIS LOG

SDG:	L1835560	**Analytical Method:**	9056A
Instrument ID:	IC-10	**Calibration Start Date:**	03/10/25 19:17
Analytical Run:	031725	**Calibration End Date:**	03/10/25 20:52

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	IC-100317250906	14.0000.txt	03/17/25 09:06		
RL	IC-100317250922	15.0000.txt	03/17/25 09:22		
BLANK	R4187569-1	16.0000.txt	03/17/25 13:13	1	WG2469046
LCS	R4187569-2	17.0000.txt	03/17/25 13:28	1	WG2469046
L1834441-01	L1834441-01	18.0000.txt	03/17/25 13:44	5	WG2469046
L1834664-10	L1834664-10	19.0000.txt	03/17/25 14:00	1	WG2469046
L1834664-11	L1834664-11	20.0000.txt	03/17/25 14:16	1	WG2469046
L1834933-01	L1834933-01	21.0000.txt	03/17/25 14:32	1.02	WG2469046
L1835123-01	L1835123-01	22.0000.txt	03/17/25 14:47	1	WG2469046
L1835396-01	L1835396-01	23.0000.txt	03/17/25 15:03	1	WG2469046
L1835396-01	L1835396-01	24.0000.txt	03/17/25 15:19	10	WG2469046
OS	L1835396-02	25.0000.txt	03/17/25 15:35		
L1835396-02	L1835396-02	25.0000.txt	03/17/25 15:35	1	WG2469046
DUP	R4187569-3	26.0000.txt	03/17/25 15:51	1	WG2469046
OS	L1835396-02	27.0000.txt	03/17/25 16:07		
L1835396-02	L1835396-02	27.0000.txt	03/17/25 16:07	10	WG2469046
DUP	R4187569-4	28.0000.txt	03/17/25 16:23	10	WG2469046
L1835396-03	L1835396-03	29.0000.txt	03/17/25 16:38	1	WG2469046
CCV	IC-100317251654	30.0000.txt	03/17/25 16:54		
CCB	IC-100317251710	31.0000.txt	03/17/25 17:10		
L1835396-03	L1835396-03	32.0000.txt	03/17/25 17:26	10	WG2469046
L1835396-04	L1835396-04	33.0000.txt	03/17/25 17:42	1	WG2469046
L1835396-04	L1835396-04	34.0000.txt	03/17/25 17:58	10	WG2469046
OS	L1835412-01	35.0000.txt	03/17/25 18:14		
L1835412-01	L1835412-01	35.0000.txt	03/17/25 18:14	1.04	WG2469046
DUP	R4187569-5	36.0000.txt	03/17/25 18:29	1	WG2469046
MS	R4187569-6	37.0000.txt	03/17/25 18:45	1.02	WG2469046
MSD	R4187569-7	38.0000.txt	03/17/25 19:01	1.02	WG2469046
L1835452-01	L1835452-01	39.0000.txt	03/17/25 19:17	1	WG2469046
L1835452-01	L1835452-01	40.0000.txt	03/17/25 19:33	10	WG2469046
L1835452-02	L1835452-02	41.0000.txt	03/17/25 19:49	1	WG2469046
L1835452-02	L1835452-02	42.0000.txt	03/17/25 20:05	10	WG2469046
L1835452-03	L1835452-03	43.0000.txt	03/17/25 20:20	1	WG2469046
L1835452-03	L1835452-03	44.0000.txt	03/17/25 20:36	10	WG2469046
CCV	IC-100317252052	45.0000.txt	03/17/25 20:52		
CCB	IC-100317252108	46.0000.txt	03/17/25 21:08		
L1835452-04	L1835452-04	47.0000.txt	03/17/25 21:24	1	WG2469046
L1835452-04	L1835452-04	48.0000.txt	03/17/25 21:40	10	WG2469046
CLINTON-SCHOOL-DITCH-S-SO	L1835560-01	49.0000.txt	03/17/25 21:56	1	WG2469046
18-901-S-SO	L1835560-02	50.0000.txt	03/17/25 22:11	1	WG2469046
K-18-S-SO	L1835560-03	51.0000.txt	03/17/25 22:32	1	WG2469046
P-230-S-SO	L1835560-04	52.0000.txt	03/17/25 22:47	1	WG2469046
P-350-S-SO	L1835560-05	53.0000.txt	03/17/25 23:03	1	WG2469046
CCV	IC-100317252319	54.0000.txt	03/17/25 23:19		
CCB	IC-100317252335	55.0000.txt	03/17/25 23:35		
BLANK	R4187570-1	56.0000.txt	03/17/25 23:50	1	WG2470003
LCS	R4187570-2	57.0000.txt	03/18/25 00:06	1	WG2470003
L1835499-01	L1835499-01	58.0000.txt	03/18/25 00:22	1	WG2470003
NHR-S-SO	L1835560-06	59.0000.txt	03/18/25 00:38	1	WG2470003
DUP	R4187570-3	60.0000.txt	03/18/25 00:54	1	WG2470003

ANALYSIS LOG

SDG:	L1835560	**Analytical Method:**	9056A
Instrument ID:	IC-10	**Calibration Start Date:**	03/10/25 19:17
Analytical Run:	031725	**Calibration End Date:**	03/10/25 20:52

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
FLYASH-S-SO	L1835560-07	61.0000.txt	03/18/25 01:10	10.3	WG2470003
MONTROSE-LAKE-S-SO	L1835560-08	62.0000.txt	03/18/25 01:26	1	WG2470003
L1835568-01	L1835568-01	63.0000.txt	03/18/25 01:41	1	WG2470003
L1835568-02	L1835568-02	64.0000.txt	03/18/25 01:57	1	WG2470003
L1835568-03	L1835568-03	65.0000.txt	03/18/25 02:13	1	WG2470003
L1835568-04	L1835568-04	66.0000.txt	03/18/25 02:29	1	WG2470003
L1835568-05	L1835568-05	67.0000.txt	03/18/25 02:45	1	WG2470003
L1835568-06	L1835568-06	68.0000.txt	03/18/25 03:01	1	WG2470003
CCV	IC-100318250317	69.0000.txt	03/18/25 03:17		
CCB	IC-100318250332	70.0000.txt	03/18/25 03:32		
L1835568-07	L1835568-07	71.0000.txt	03/18/25 03:48	1	WG2470003
OS	L1835568-08	72.0000.txt	03/18/25 04:04		
L1835568-08	L1835568-08	72.0000.txt	03/18/25 04:04	100	WG2470003
DUP	R4187570-4	73.0000.txt	03/18/25 04:20	100	WG2470003
MS	R4187570-5	74.0000.txt	03/18/25 04:36	100	WG2470003
MSD	R4187570-6	75.0000.txt	03/18/25 04:52	100	WG2470003
L1835568-09	L1835568-09	76.0000.txt	03/18/25 05:08	1	WG2470003
L1836309-01	L1836309-01	78.0000.txt	03/18/25 05:39	1	WG2470003
CCV	IC-100318250643	82.0000.txt	03/18/25 06:43		
CCB	IC-100318250659	83.0000.txt	03/18/25 06:59		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	0	.2137		1	.9992	99.90
File ID:		3.0000.TXT			4.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	5	4.427	88.50	10	9.0186	90.20
File ID:		5.0000.TXT			6.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	25	24.4085	97.60	50	50.2038	100
File ID:		7.0000.TXT			8.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835560	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%
SULFATE	100	101.9429	102
File ID:		9.0000.TXT	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1835560	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
SULFATE	5	1	0.99926			0.089	-0.018	16.831
SULFATE	5	1	0.99926			0.089	-0.018	16.831

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

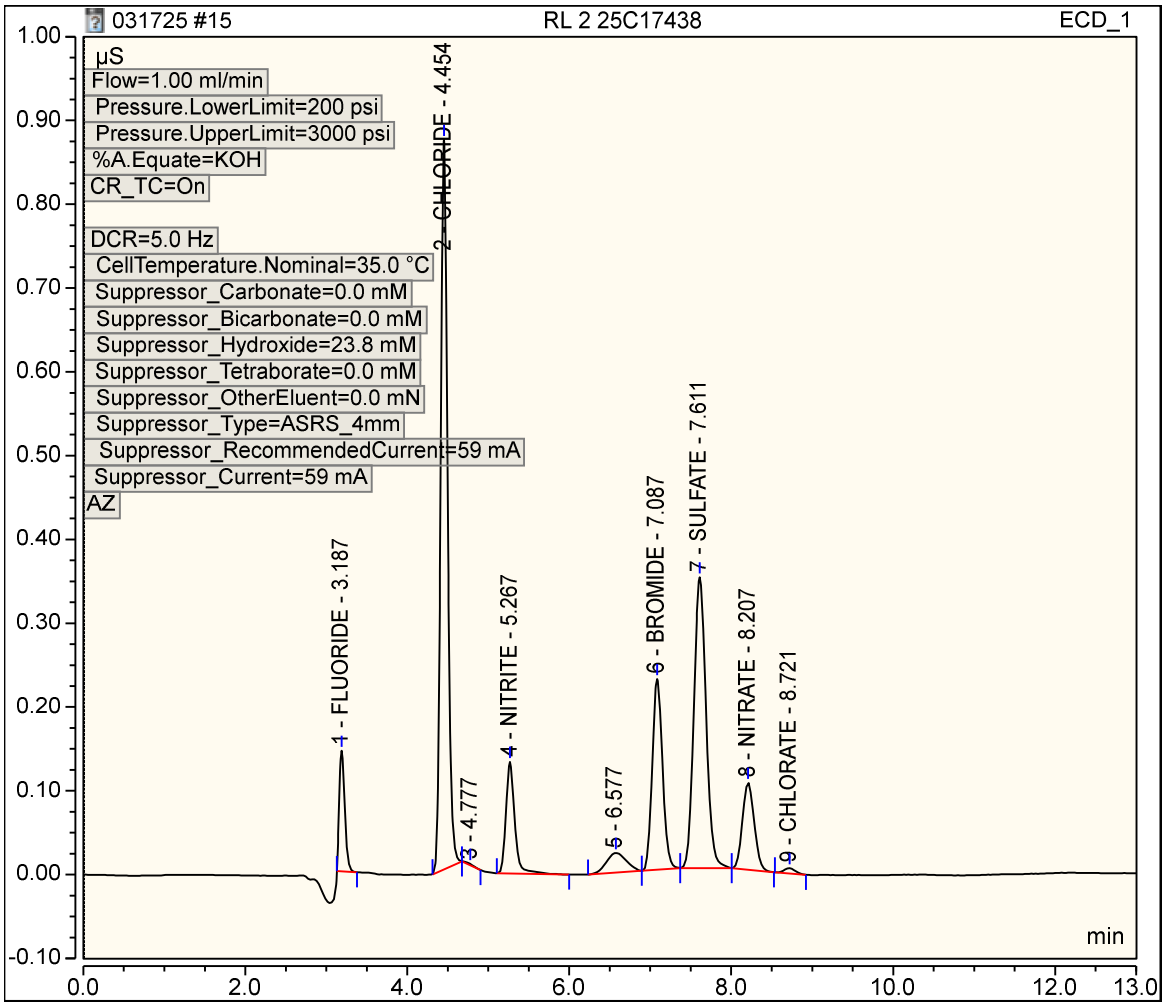
REPORTING LEVEL VERIFICATION
INORGANICS

SDG:	L1835560	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Lab File ID:	15.0000.txt	**Analysis date/time:**	03/17/25 09:22
Analytical Method:	9056A	**Sample ID:**	RL

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
SULFATE	1	0.8839	88.40	50 - 150

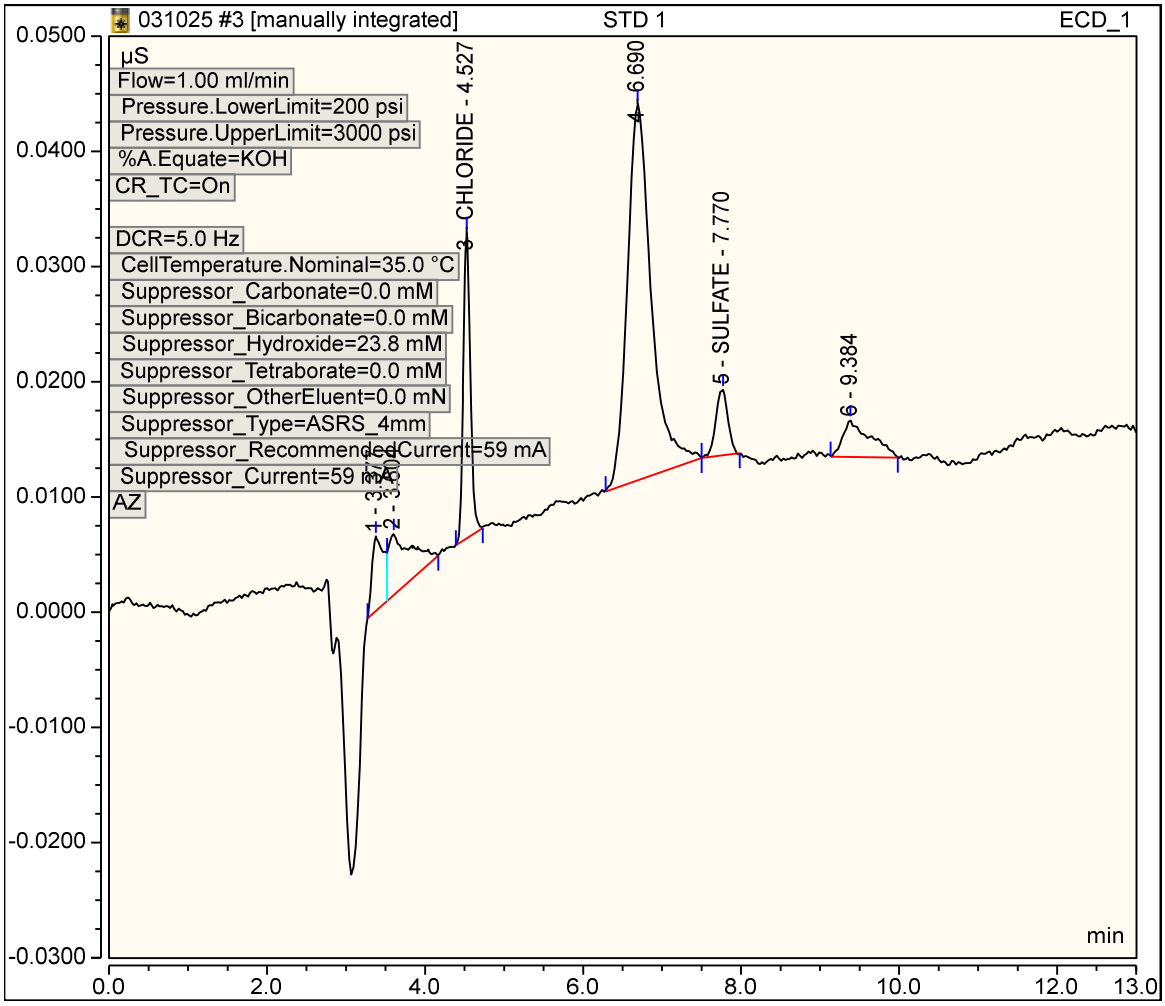
Sample Name:	**RL 2 25C17438**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 09:22**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.011	0.144	0.0915
2	4.45	CHLORIDE	BMB	0.086	0.870	0.8568
4	5.27	NITRITE	BMB	0.017	0.133	0.1134
6	7.09	BROMIDE	BMB	0.033	0.228	1.1706
7	7.61	SULFATE	BMB	0.060	0.347	0.8839
8	8.21	NITRATE	BMB	0.018	0.104	0.1255
9	8.72	CHLORATE	BMB	0.001	0.006	0.0620
		TOTAL:		0.23	1.83	3.30



Sample Name:	**STD 1**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**25B27874 BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 19:17**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.53	CHLORIDE	BMB	0.003	0.027	0.1993
5	7.77	SULFATE	bMB*	0.001	0.006	0.2137
		TOTAL:		0.00	0.03	0.41



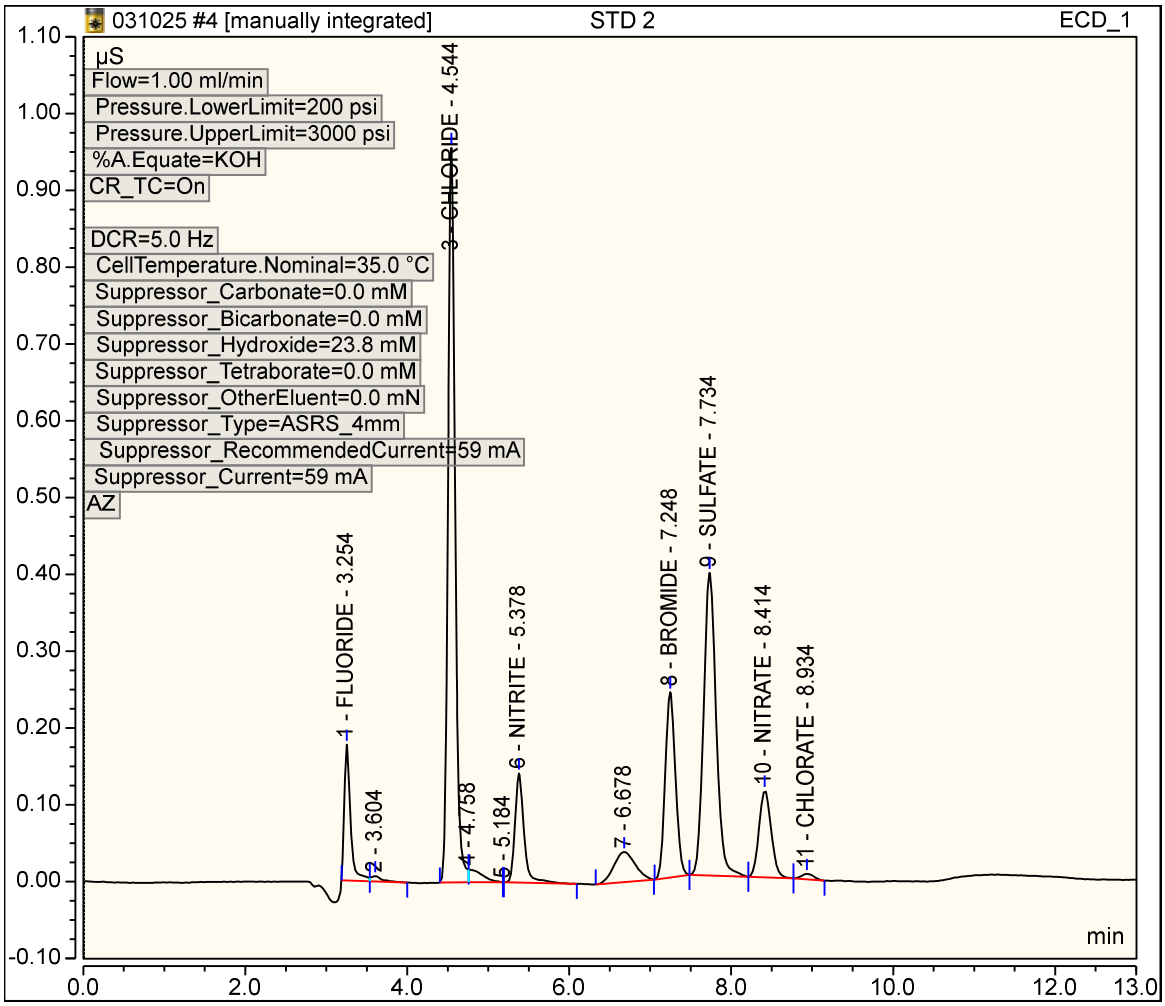
Sample Name:	**STD 1**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**25B27874**
Inj. Date/Time:	**03/10/25 19:17**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #3 - STD 1.

Sample Name:	**STD 2**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 19:33**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.25	FLUORIDE	BM	0.016	0.177	0.1154
3	4.54	CHLORIDE	BM *	0.097	0.957	0.9475
6	5.38	NITRITE	bMB*	0.018	0.142	0.1198
8	7.25	BROMIDE	BMB	0.035	0.241	1.2097
9	7.73	SULFATE	BMB	0.071	0.394	0.9992
10	8.41	NITRATE	BMB	0.020	0.113	0.1330
11	8.93	CHLORATE	BMB	0.001	0.007	0.0680
		TOTAL:		0.26	2.03	3.59



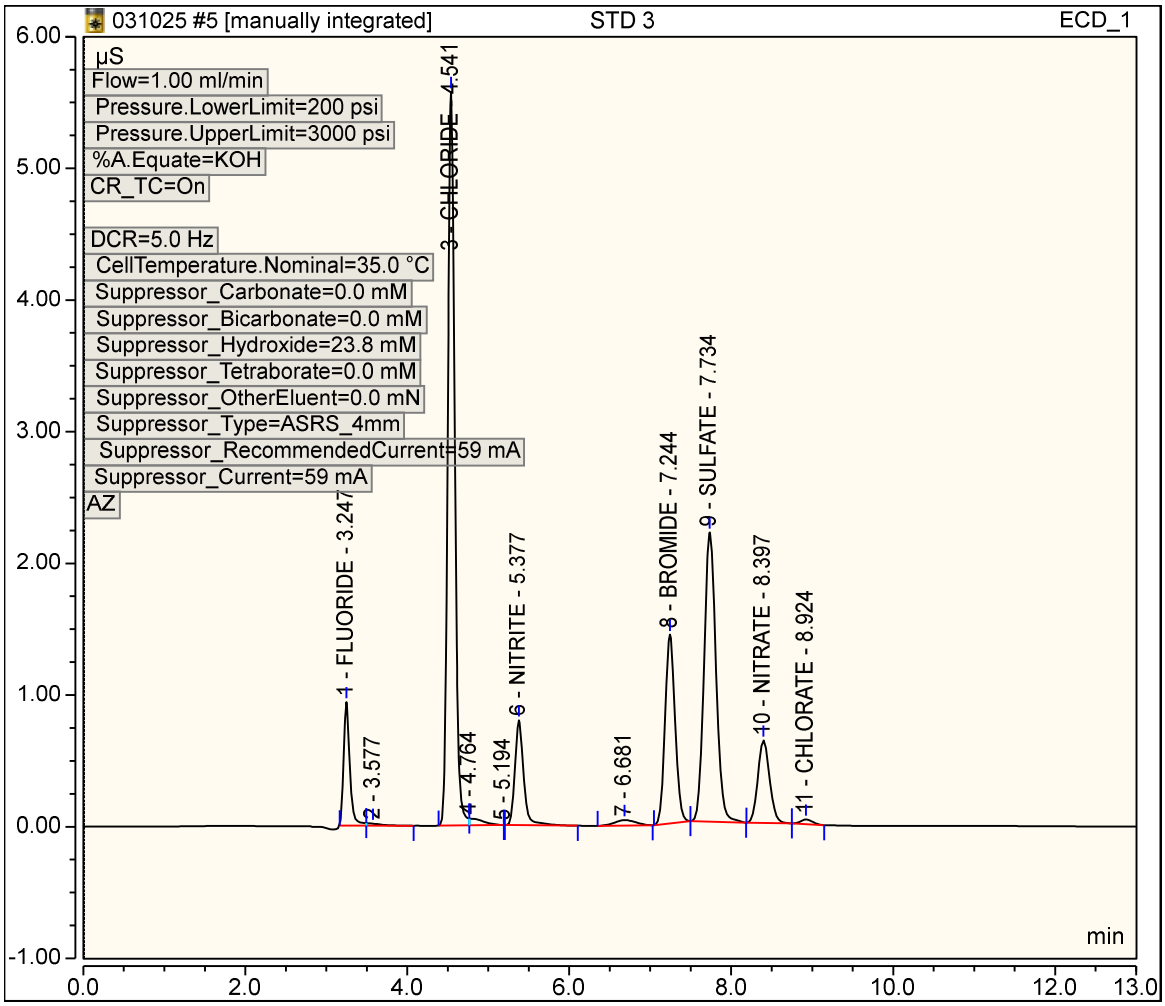
Sample Name:	**STD 2**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 19:33**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #4 - STD 2.

Sample Name:	**STD 3**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 19:49**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.25	FLUORIDE	BM	0.083	0.937	0.4599
3	4.54	CHLORIDE	BM *	0.557	5.571	4.6024
6	5.38	NITRITE	bMB*	0.099	0.796	0.4529
8	7.24	BROMIDE	BMB	0.205	1.433	4.4650
9	7.73	SULFATE	BMB	0.374	2.197	4.4270
10	8.40	NITRATE	BMB	0.105	0.626	0.4344
11	8.92	CHLORATE	BMB	0.006	0.036	0.2269
		TOTAL:		1.43	11.60	15.07



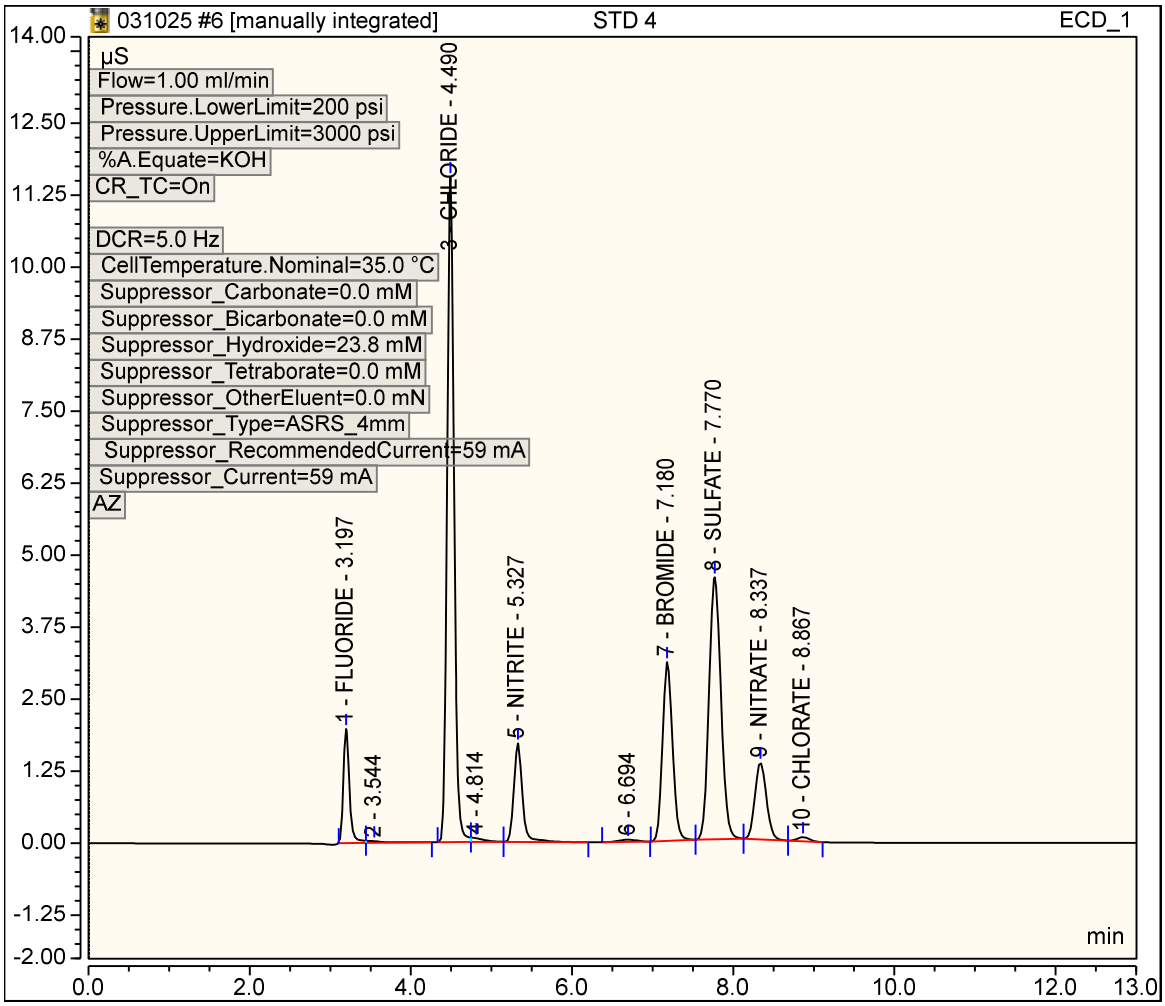
Sample Name:	**STD 3**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 19:49**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #5 - STD 3.

Sample Name:	**STD 4**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 20:05**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.20	FLUORIDE	BM	0.174	1.981	0.9294
3	4.49	CHLORIDE	BM *	1.161	11.547	9.3983
5	5.33	NITRITE	bMB*	0.211	1.709	0.9127
7	7.18	BROMIDE	BMB	0.446	3.107	9.0885
8	7.77	SULFATE	BMB	0.781	4.547	9.0186
9	8.34	NITRATE	BMB	0.221	1.336	0.8421
10	8.87	CHLORATE	BMB	0.012	0.071	0.4239
		TOTAL:		3.01	24.30	30.61



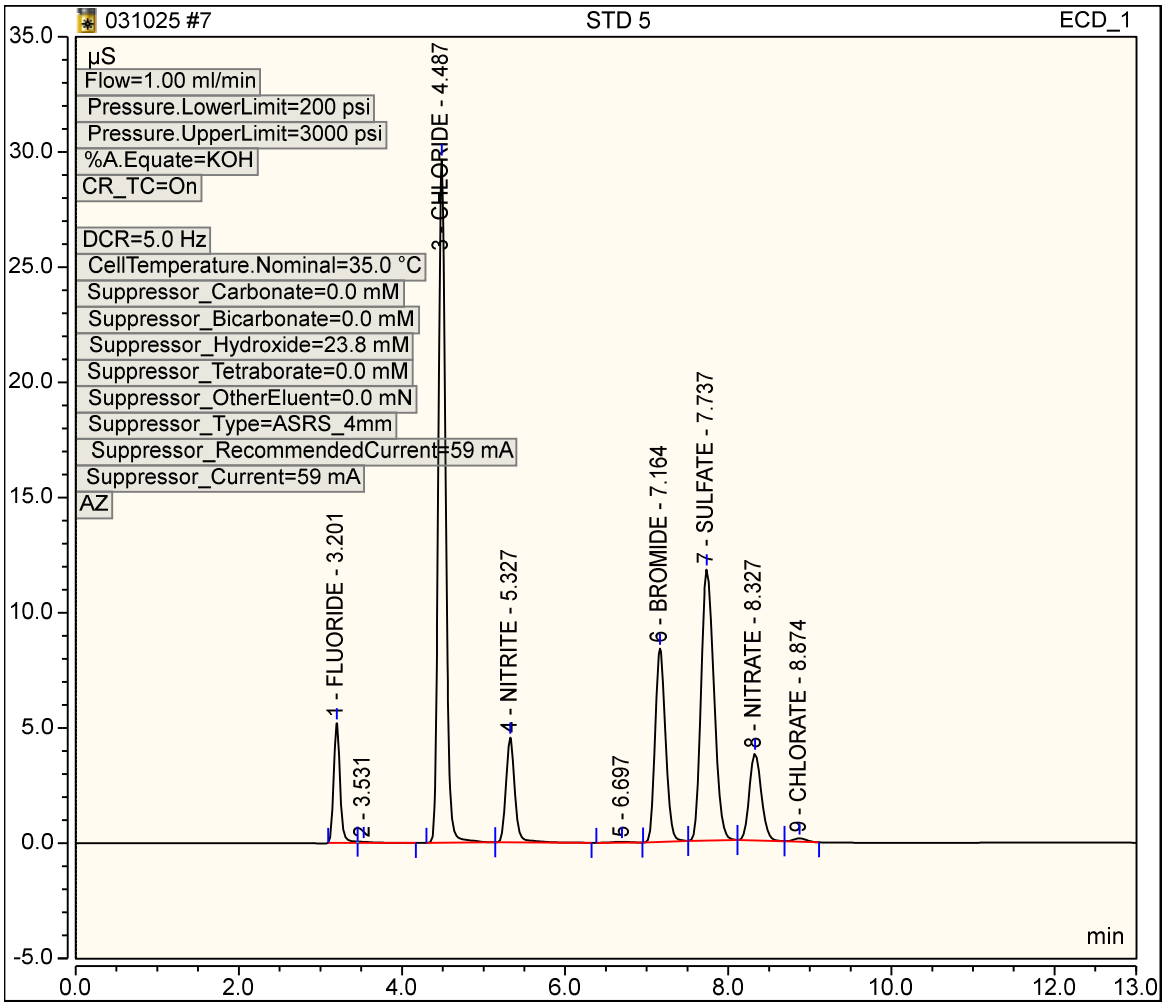
Sample Name:	**STD 4**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 20:05**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #6 - STD 4.

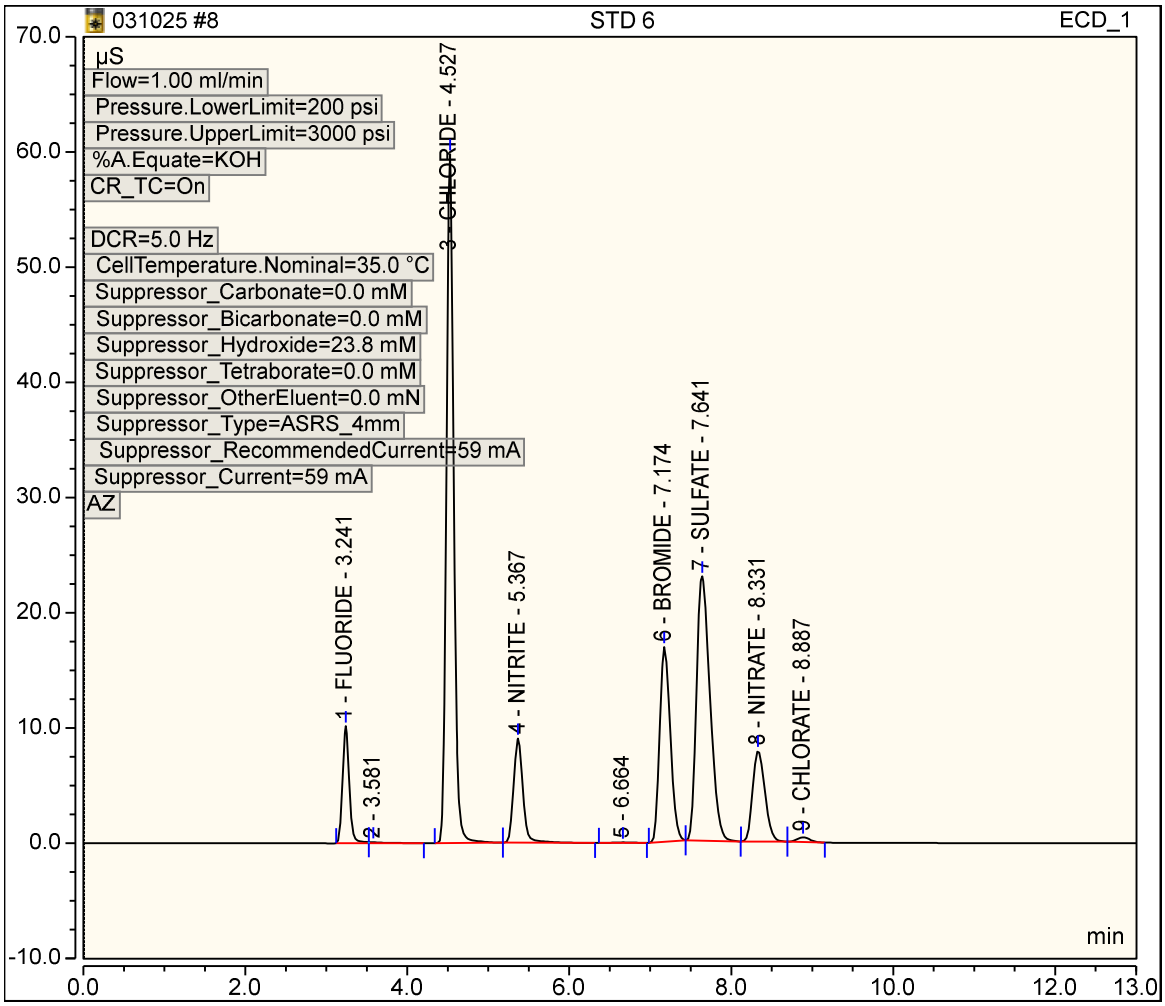
Sample Name:	**STD 5**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 20:20**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.20	FLUORIDE	BM	0.467	5.196	2.4429
3	4.49	CHLORIDE	BMB	3.053	29.665	24.4224
4	5.33	NITRITE	BMB	0.576	4.553	2.4105
6	7.16	BROMIDE	BMB	1.234	8.392	24.1968
7	7.74	SULFATE	BMB	2.144	11.774	24.4085
8	8.33	NITRATE	BMB	0.642	3.770	2.3231
9	8.87	CHLORATE	BMB	0.026	0.148	0.8602
		TOTAL:		8.14	63.50	81.06



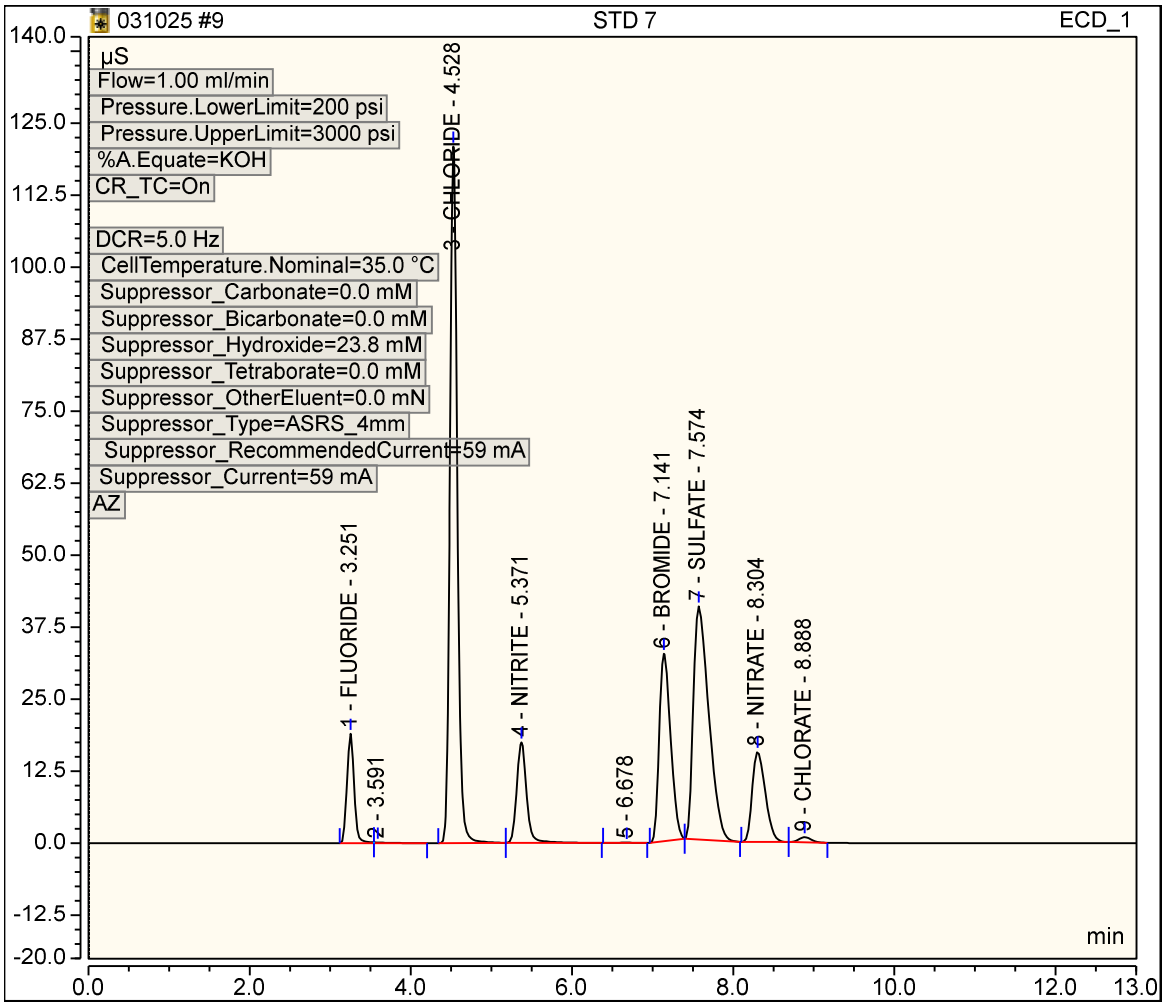
Sample Name:	**STD 6**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 20:36**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.24	FLUORIDE	BM	0.972	10.151	5.0468
3	4.53	CHLORIDE	BMB	6.270	59.777	49.9645
4	5.37	NITRITE	BMB	1.204	9.037	4.9934
6	7.17	BROMIDE	BMB	2.581	16.902	50.0198
7	7.64	SULFATE	BMB	4.428	22.924	50.2038
8	8.33	NITRATE	BMB	1.385	7.900	4.9364
9	8.89	CHLORATE	BMB	0.074	0.414	2.4024
		TOTAL:		16.91	127.11	167.57



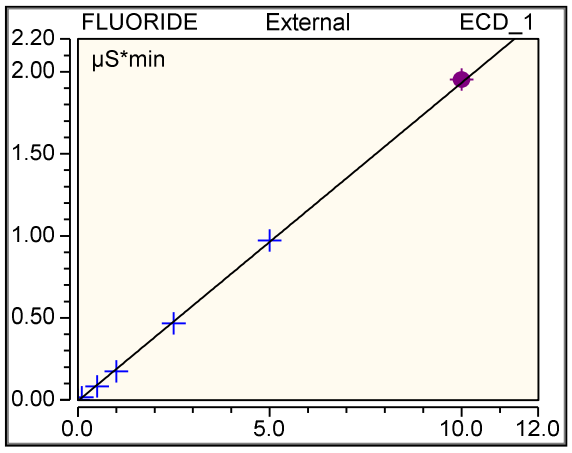
Sample Name:	**STD 7**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 20:52**	*Run Time:*	**13.00**

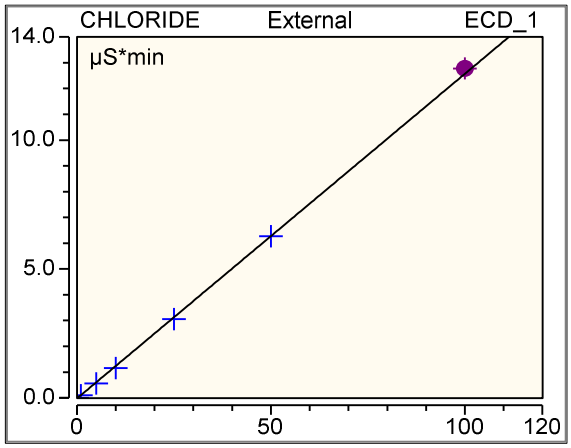
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.25	FLUORIDE	BM	1.953	19.003	10.1056
3	4.53	CHLORIDE	BMB	12.781	120.902	101.6648
4	5.37	NITRITE	BMB	2.474	17.454	10.2108
6	7.14	BROMIDE	BMB	5.293	32.513	102.0202
7	7.57	SULFATE	BMB	9.011	40.464	101.9429
8	8.30	NITRATE	BMB	2.947	15.701	10.4311
9	8.89	CHLORATE	BMB	0.164	0.908	5.3186
		TOTAL:		34.62	246.94	341.69

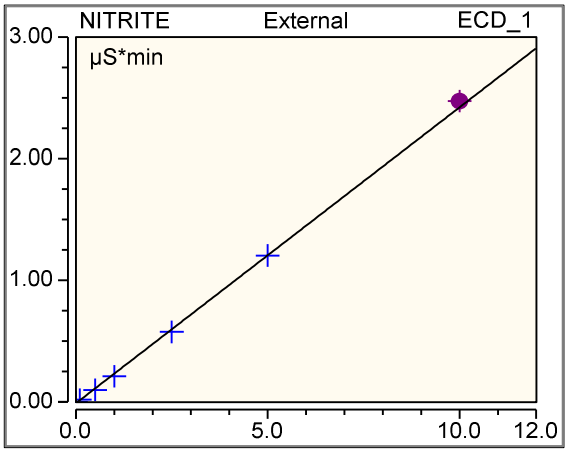


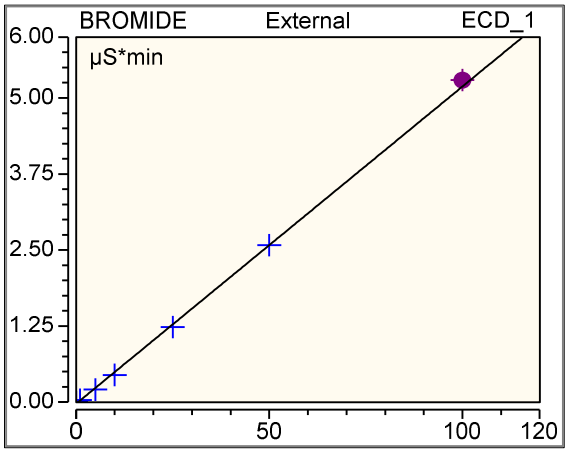
Calibration Batch Report

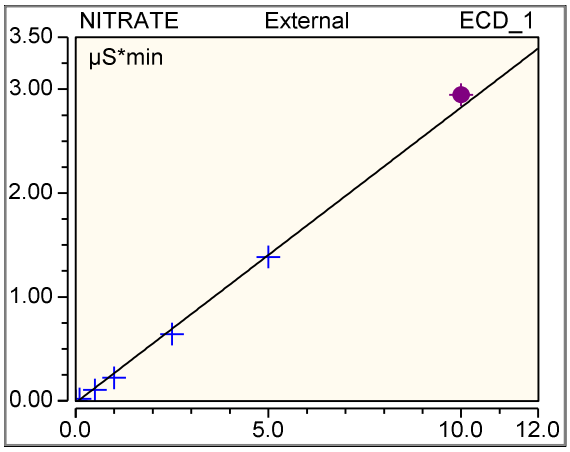
Sequence:	**031025**	Inj. Vol.:	**25.0**
Program:	**IC10CAL012725**	Operator:	**WETLABIC8**
Inj. Date/Time:	**03/10/25 20:52**	Run Time:	**13.00**

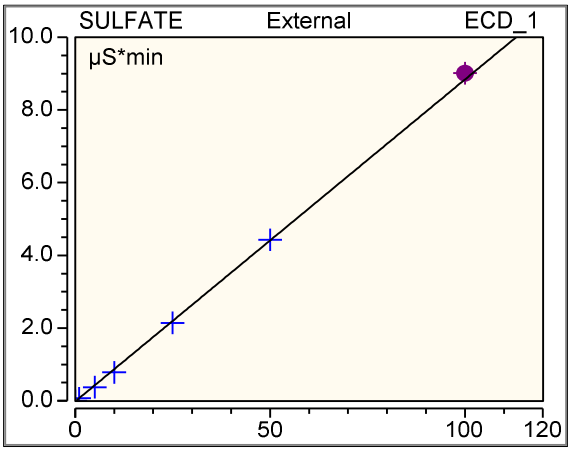




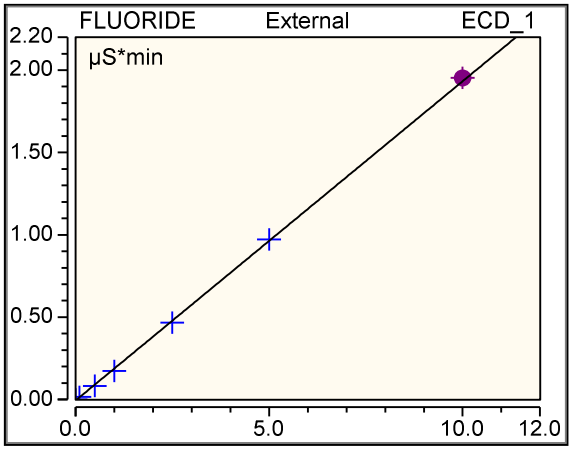








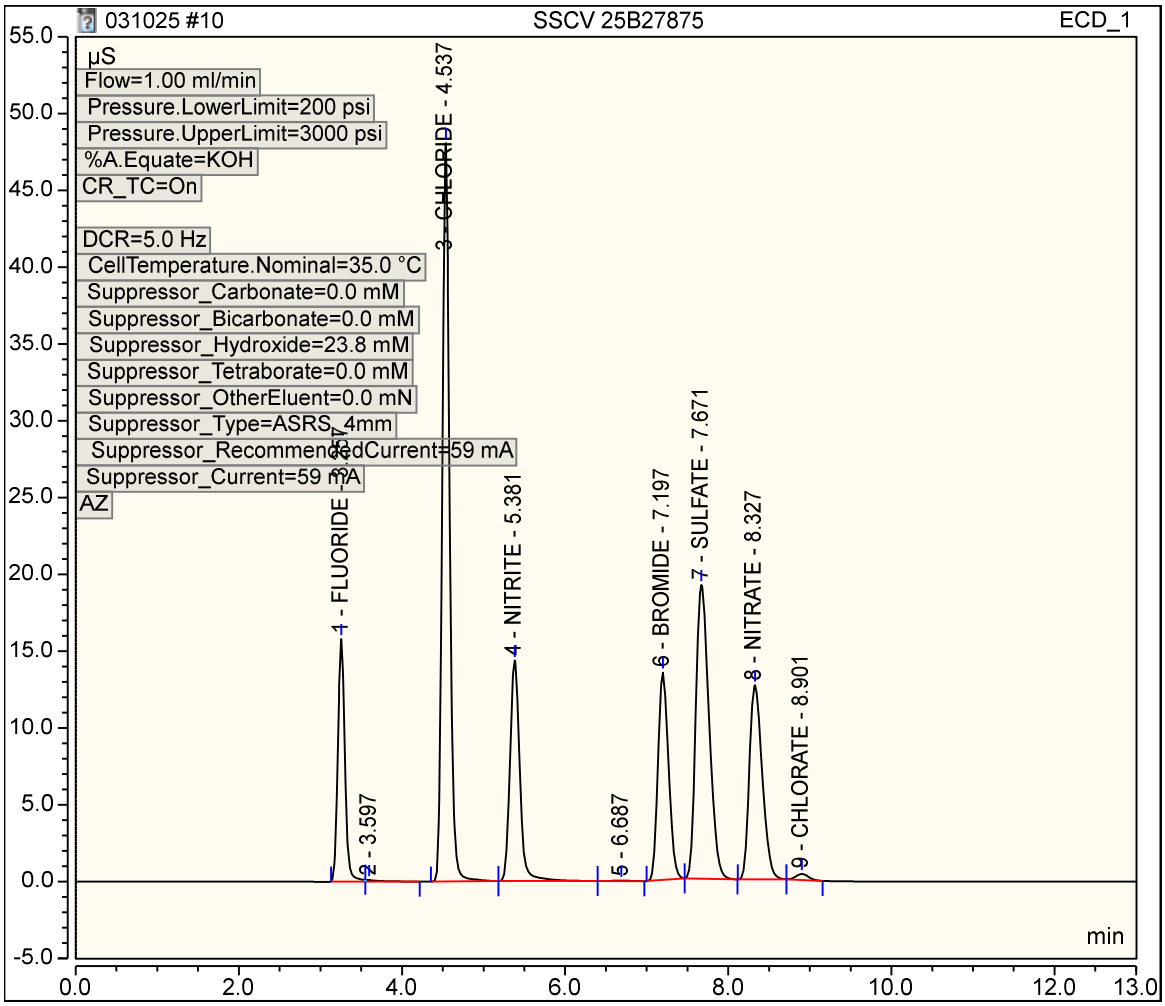
Sequence:	**031025**	*Inj. Vol.:*	**25.0**
Program:	**IC10CAL012725**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/10/25 20:52**	*Run Time:*	**13.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.25	FLUORIDE	, WithOffset,	6	-0.006	0.194	0.000	99.959
3	4.53	CHLORIDE	, WithOffset,	7	-0.022	0.126	0.000	99.957
4	5.37	NITRITE	, WithOffset,	6	-0.011	0.243	0.000	99.928
6	7.14	BROMIDE	, WithOffset,	6	-0.028	0.052	0.000	99.924
7	7.57	SULFATE	, WithOffset,	7	-0.018	0.089	0.000	99.926
8	8.30	NITRATE	, WithOffset,	6	-0.018	0.284	0.000	99.769
9	8.89	CHLORATE	, WithOffset,	6	-0.001	0.031	0.000	99.603
AVERAGE:					-0.0149	0.1456	0.0000	99.8667

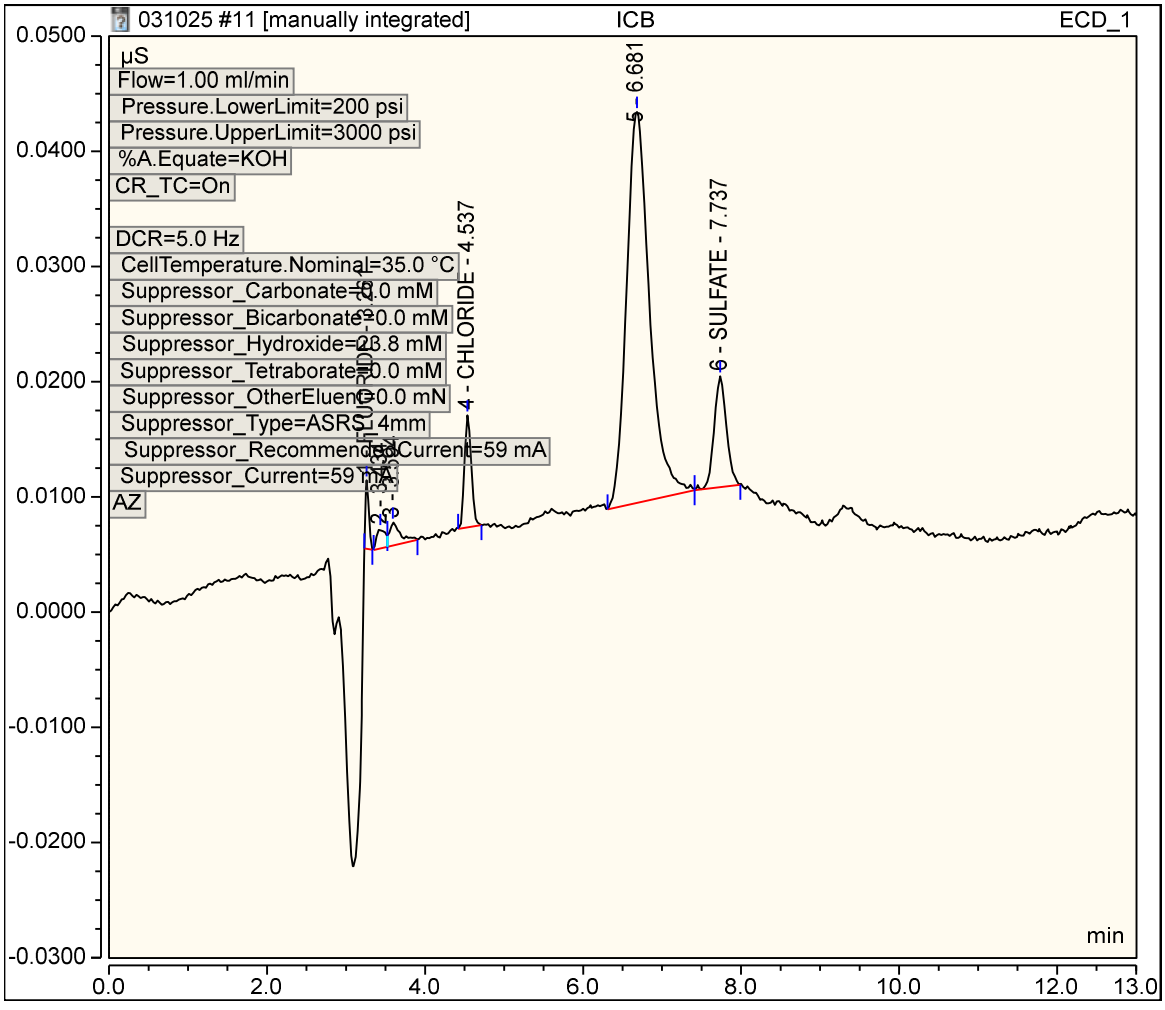
Sample Name:	**SSCV 25B27875**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 21:08**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.26	FLUORIDE	BM	1.577	15.782	8.1676
3	4.54	CHLORIDE	BMB	5.021	48.073	40.0440
4	5.38	NITRITE	BMB	1.999	14.354	8.2604
6	7.20	BROMIDE	BMB	2.034	13.529	39.5320
7	7.67	SULFATE	BMB	3.592	19.131	40.7608
8	8.33	NITRATE	BMB	2.313	12.635	8.2014
9	8.90	CHLORATE	BMB	0.070	0.398	2.2999
		TOTAL:		16.61	123.90	147.27



Sample Name:	**ICB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 21:24**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.26	FLUORIDE	BMB	0.000	0.006	0.0348
4	4.54	CHLORIDE	BMB	0.001	0.010	0.1851
6	7.74	SULFATE	bMB*	0.002	0.010	0.2219
		TOTAL:		0.00	0.03	0.44



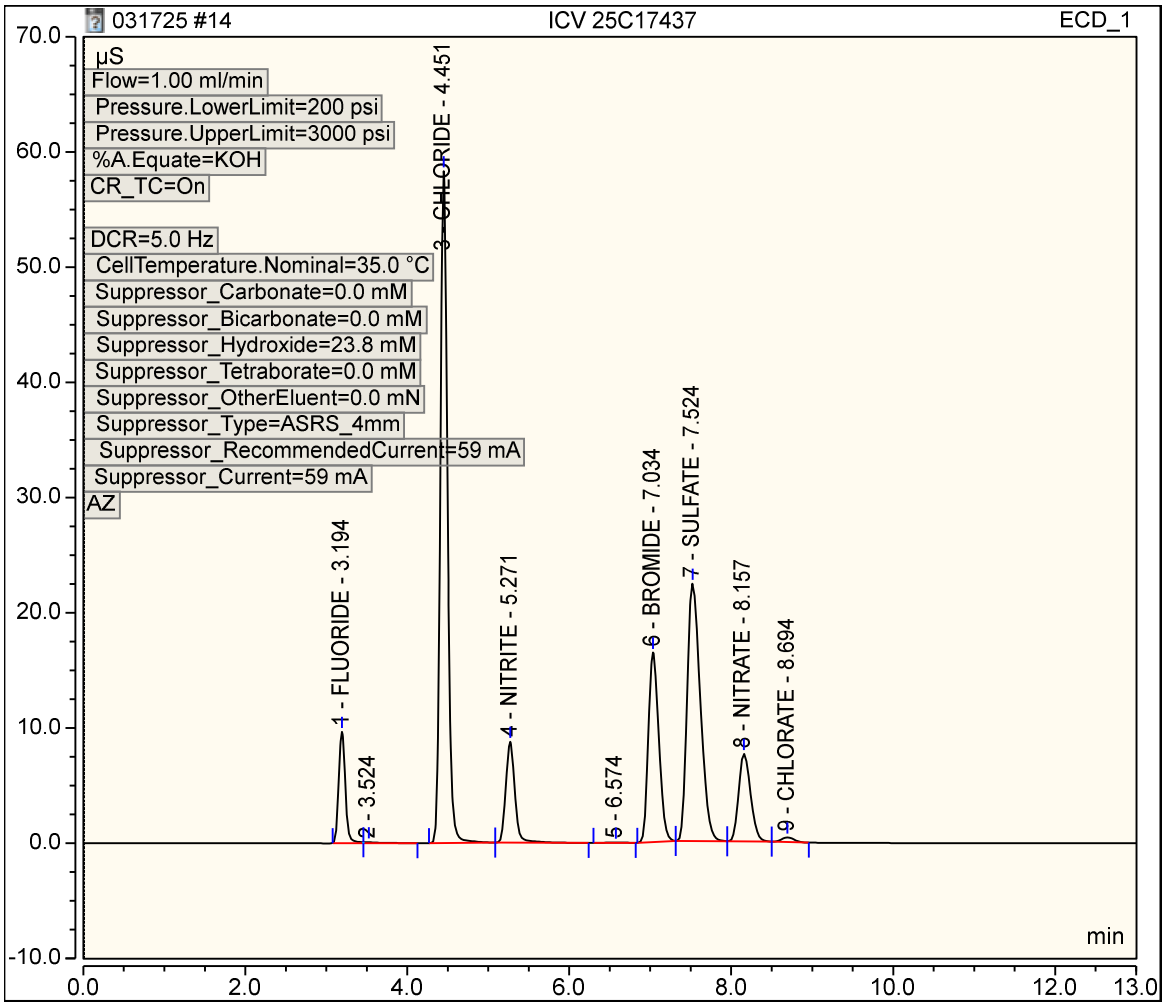
Sample Name:	**ICB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 21:24**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #11 - ICB.

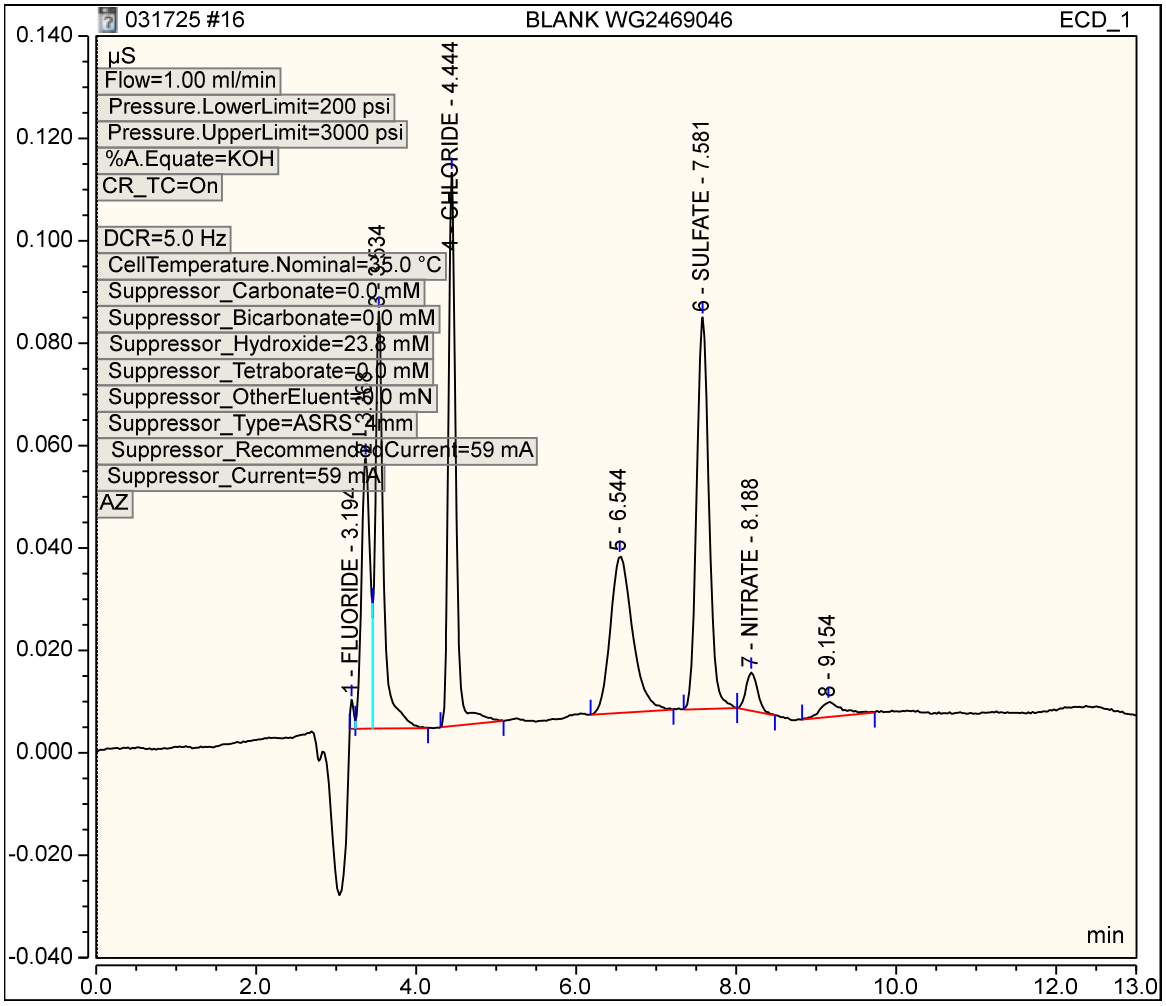
Sample Name:	**ICV 25C17437**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 09:06**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.904	9.655	4.6962
3	4.45	CHLORIDE	BMB	6.023	58.318	48.0038
4	5.27	NITRITE	BMB	1.139	8.761	4.7241
6	7.03	BROMIDE	BMB	2.462	16.440	47.7451
7	7.52	SULFATE	BMB	4.222	22.333	47.8774
8	8.16	NITRATE	BMB	1.296	7.586	4.6243
9	8.69	CHLORATE	BMB	0.071	0.406	2.3264
		TOTAL:		16.12	123.50	160.00



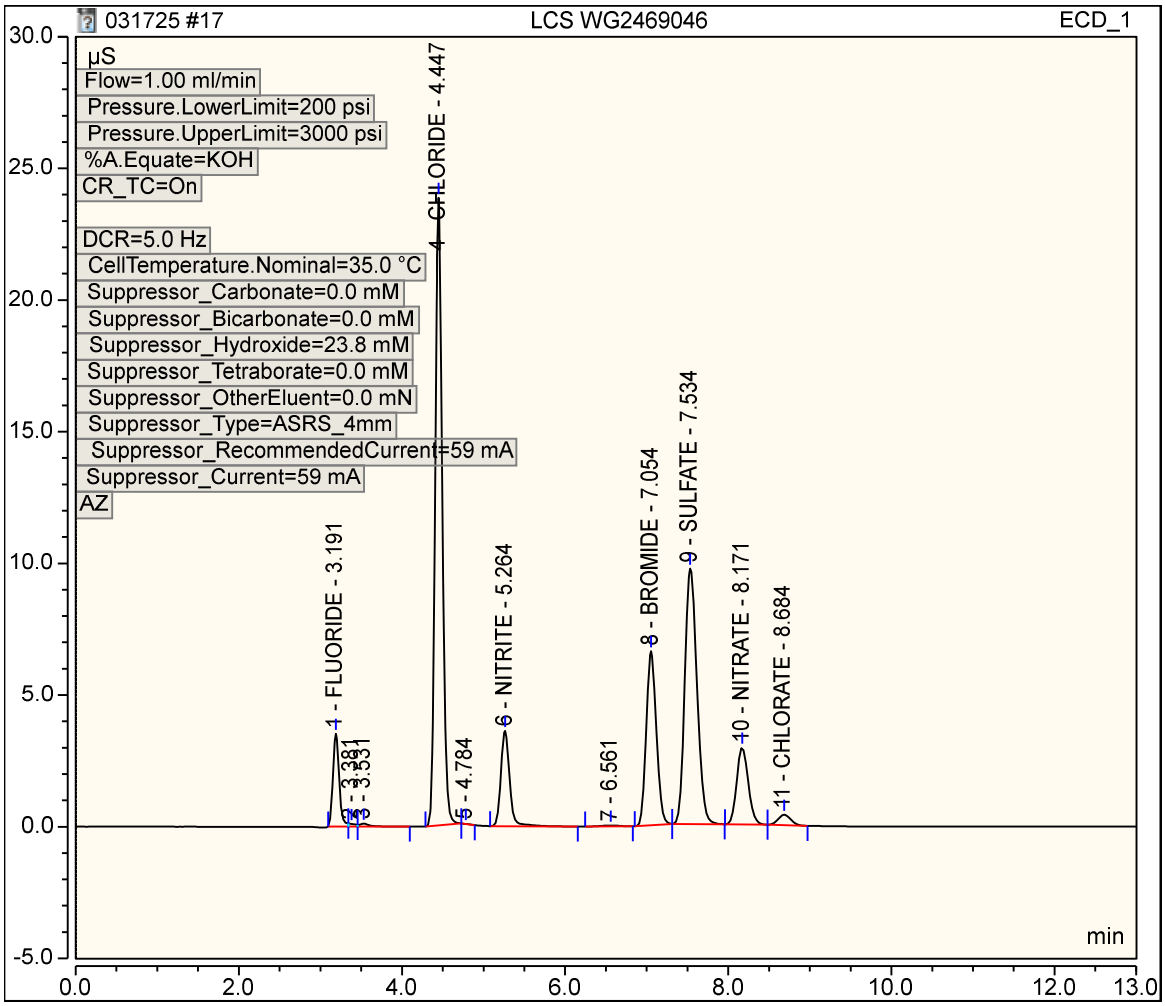
Sample Name:	**BLANK WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 13:13**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.000	0.006	0.0346
4	4.44	CHLORIDE	BMB	0.012	0.108	0.2708
6	7.58	SULFATE	BMB	0.014	0.077	0.3573
7	8.19	NITRATE	BMB	0.001	0.007	0.0684
		TOTAL:		0.03	0.20	0.73



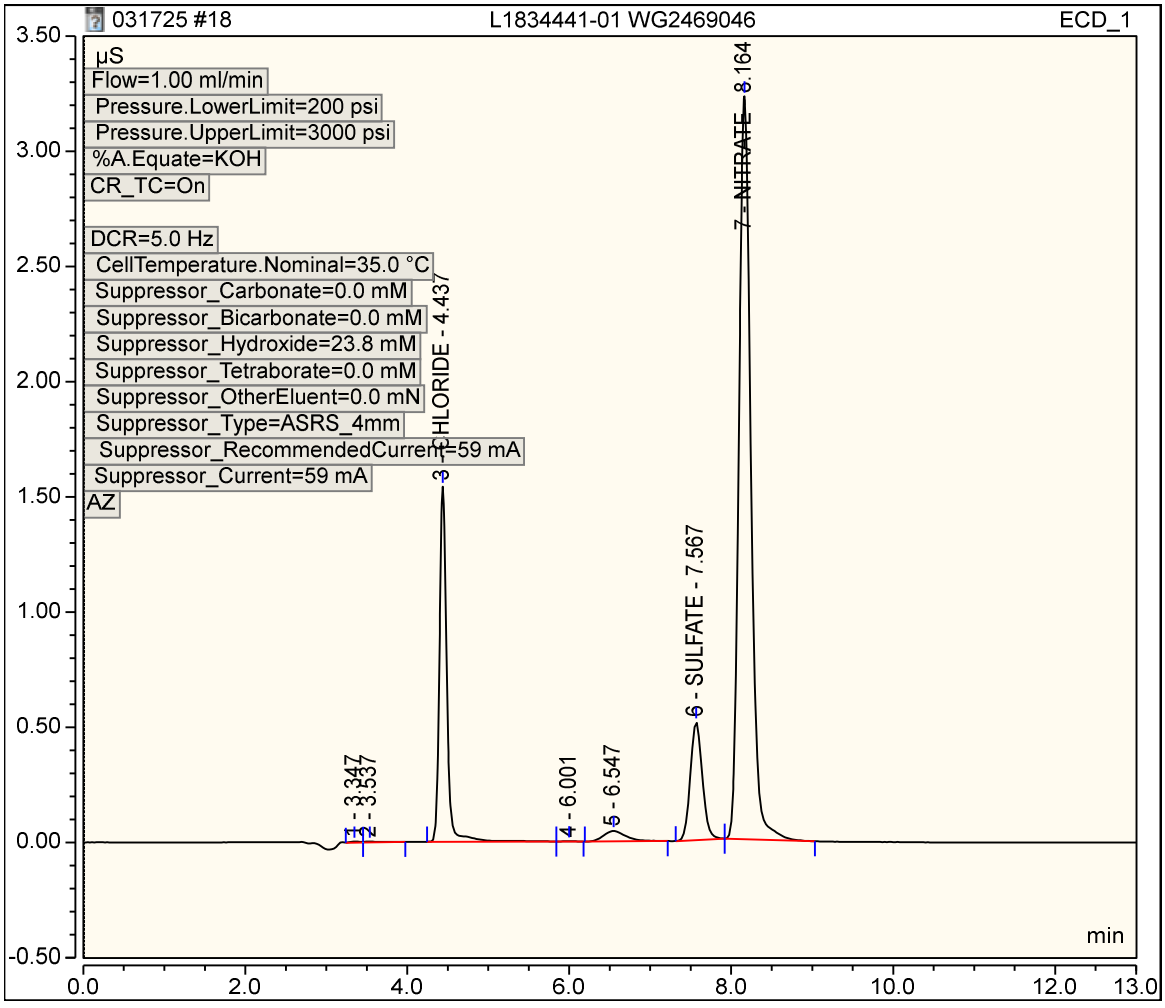
Sample Name:	**LCS WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 13:28**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.307	3.526	1.6154
4	4.45	CHLORIDE	BMB	2.399	23.842	19.2292
6	5.26	NITRITE	BMB	0.448	3.619	1.8874
8	7.05	BROMIDE	BMB	0.948	6.616	18.6999
9	7.53	SULFATE	BMB	1.674	9.702	19.1053
10	8.17	NITRATE	BMB	0.480	2.921	1.7526
11	8.68	CHLORATE	BMB	0.071	0.398	2.3162
		TOTAL:		6.33	50.62	64.61



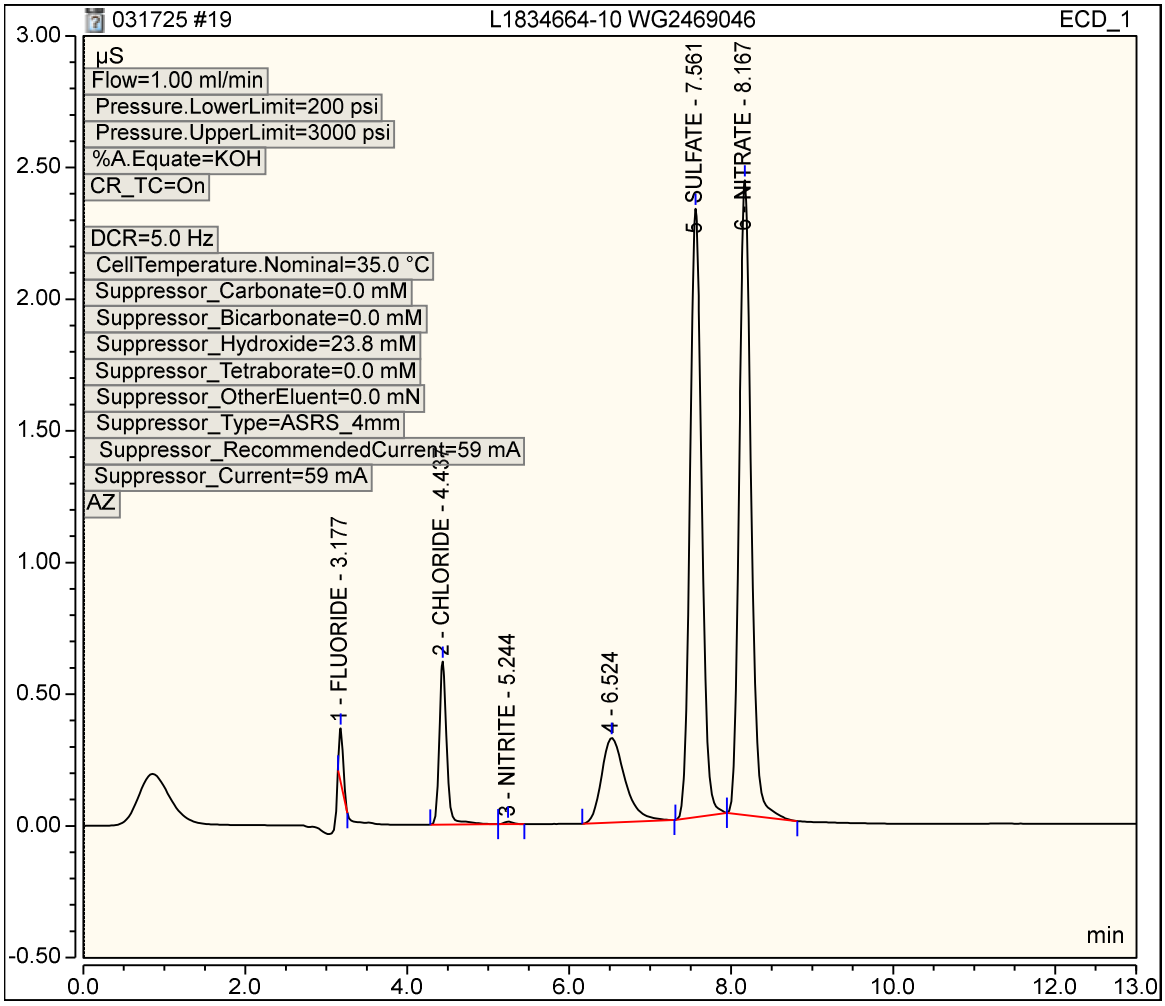
Sample Name:	**L1834441-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**5.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 13:44**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.44	CHLORIDE	BMB	0.161	1.541	7.2597
6	7.57	SULFATE	BMB	0.088	0.512	5.9759
7	8.16	NITRATE	BMB	0.552	3.224	10.0354
		TOTAL:		0.80	5.28	23.27



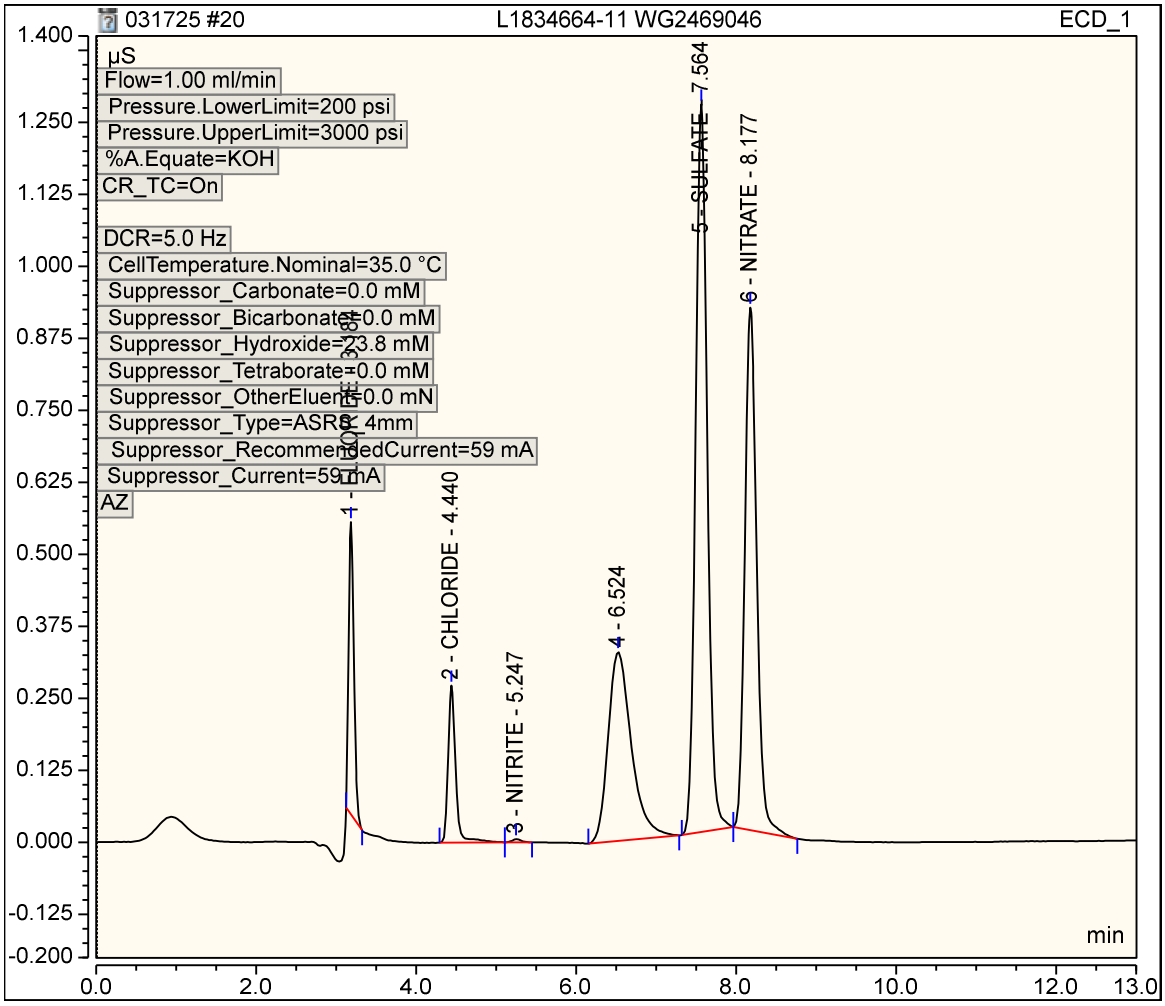
Sample Name:	**L1834664-10 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 14:00**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.012	0.206	0.0936
2	4.44	CHLORIDE	BMB	0.065	0.619	0.6957
3	5.24	NITRITE	BMB	0.001	0.010	0.0490
5	7.56	SULFATE	BMB	0.386	2.310	4.5653
6	8.17	NITRATE	BMB	0.408	2.410	1.4977
		TOTAL:		0.87	5.55	6.90



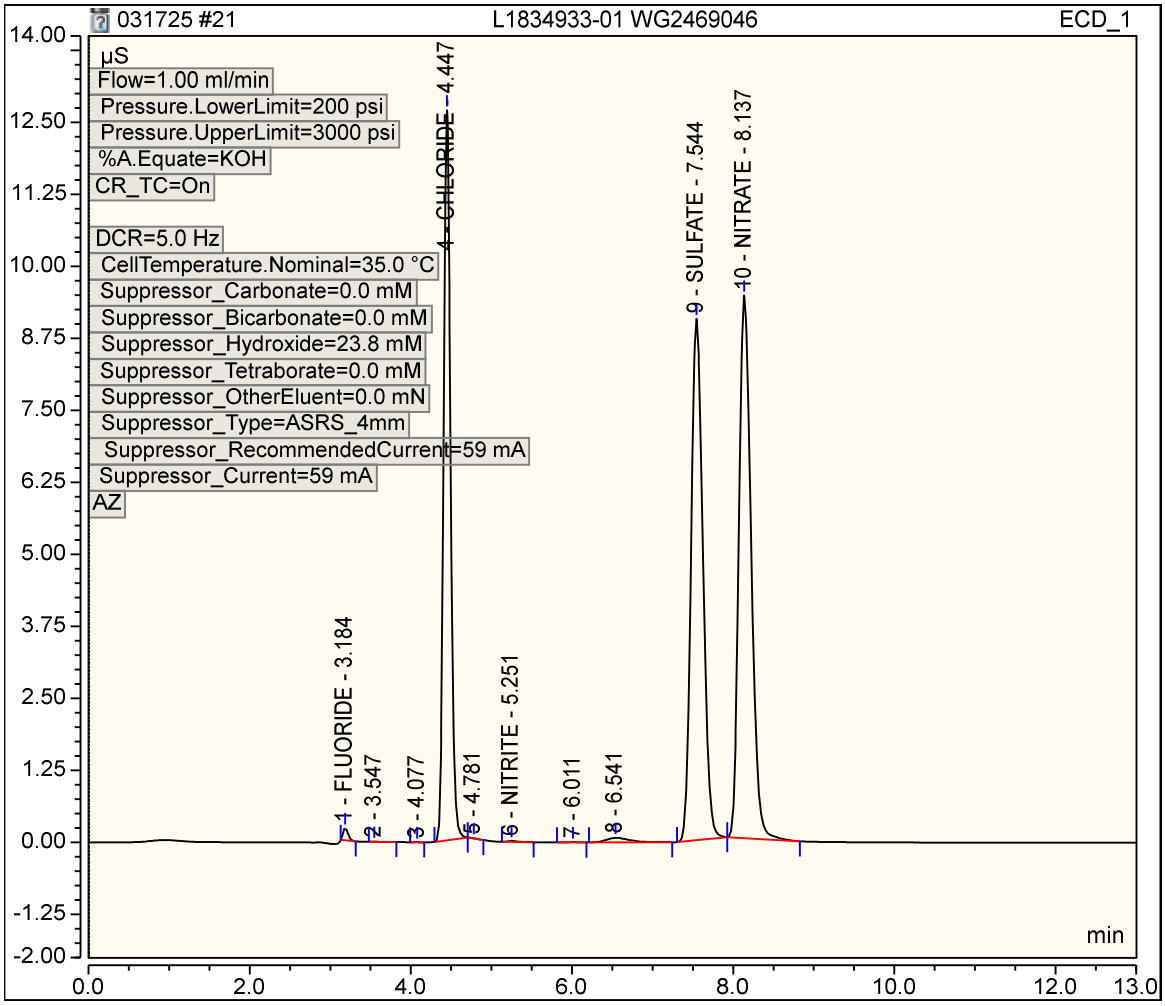
Sample Name:	**L1834664-11 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 14:16**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.039	0.507	0.2330
2	4.44	CHLORIDE	BMB	0.030	0.273	0.4126
3	5.25	NITRITE	BMB	0.001	0.006	0.0471
5	7.56	SULFATE	BMB	0.214	1.263	2.6176
6	8.18	NITRATE	BMB	0.155	0.907	0.6095
		TOTAL:		0.44	2.96	3.92



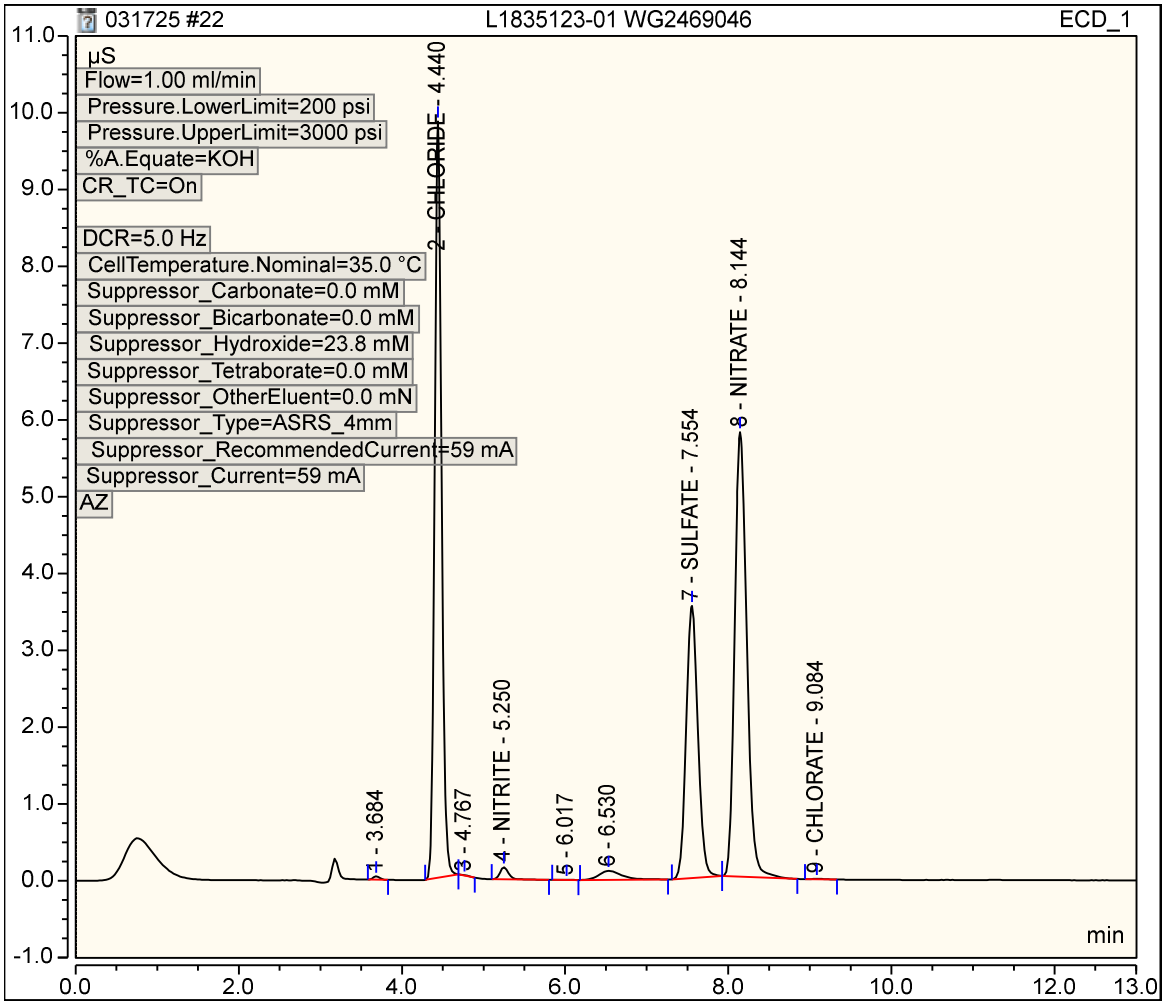
Sample Name:	**L1834933-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 14:32**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.016	0.213	0.1144
4	4.45	CHLORIDE	BMB	1.254	12.676	10.1338
6	5.25	NITRITE	BMB	0.002	0.018	0.0534
9	7.54	SULFATE	BMB	1.541	9.050	17.6024
10	8.14	NITRATE	BMB	1.662	9.423	5.9104
		TOTAL:		4.48	31.38	33.81



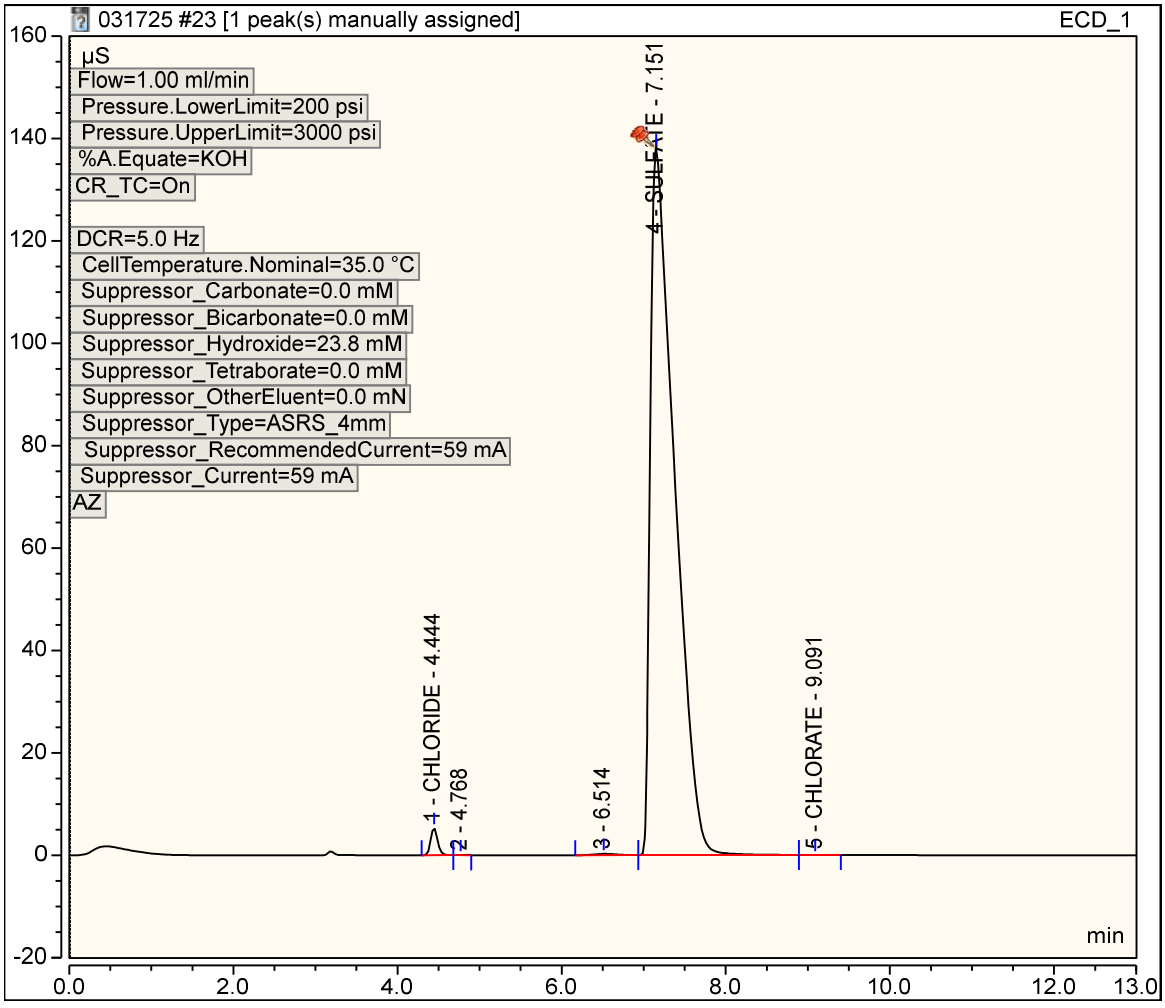
Sample Name:	**L1835123-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 14:47**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
2	4.44	CHLORIDE	BMB	0.969	9.847	7.8685
4	5.25	NITRITE	BMB	0.020	0.160	0.1256
7	7.55	SULFATE	BMB	0.589	3.544	6.8565
8	8.14	NITRATE	BMB	0.995	5.789	3.5655
9	9.08	CHLORATE	BMB	0.001	0.005	0.0610
		TOTAL:		2.57	19.35	18.48



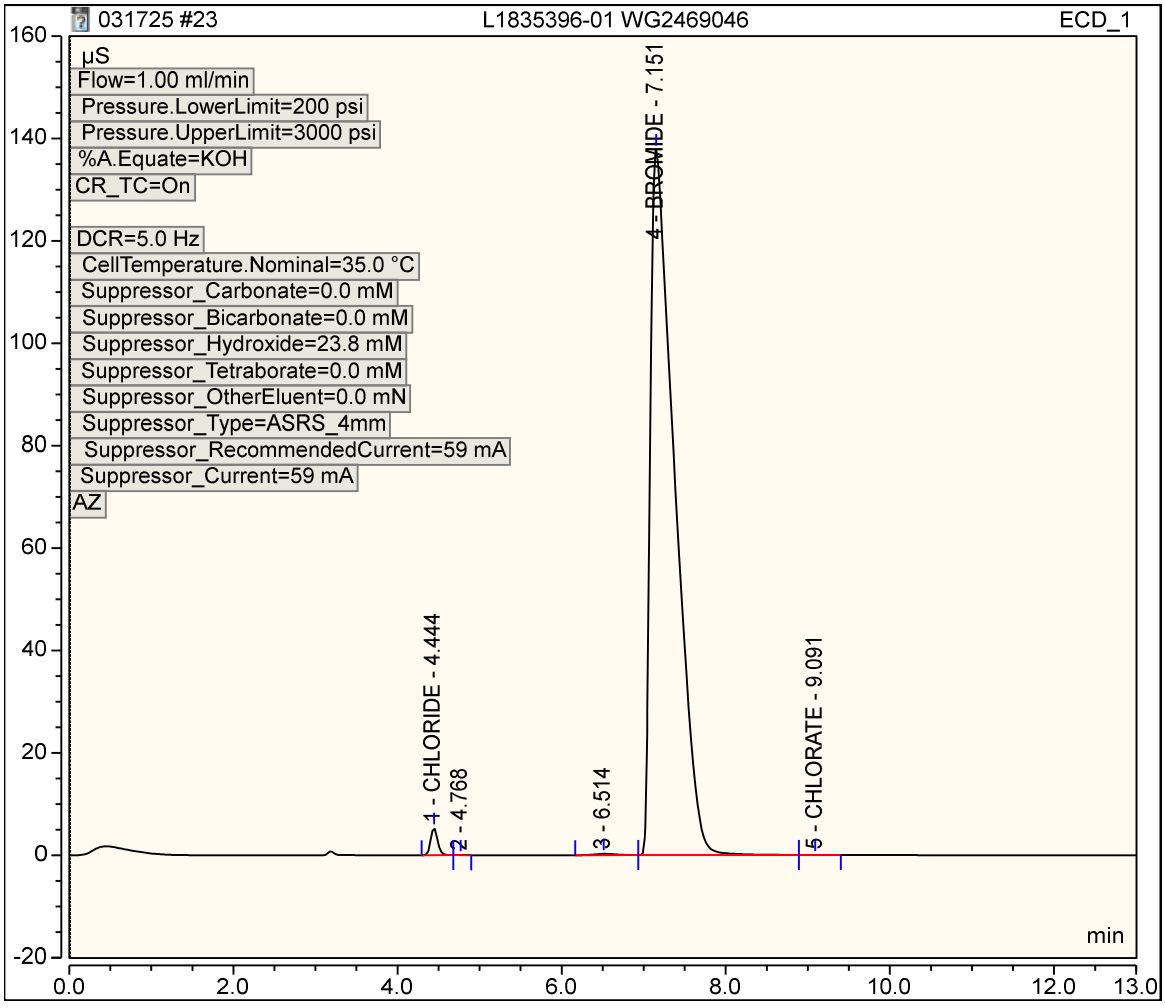
Sample Name:	**L1835396-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 15:03**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	4.44	CHLORIDE	BMB	0.518	5.315	4.2864
4	7.15	SULFATE	BMB^	46.944	137.834	530.2389
5	9.09	CHLORATE	BMB	0.006	0.027	0.2090
		TOTAL:		47.47	143.18	534.73



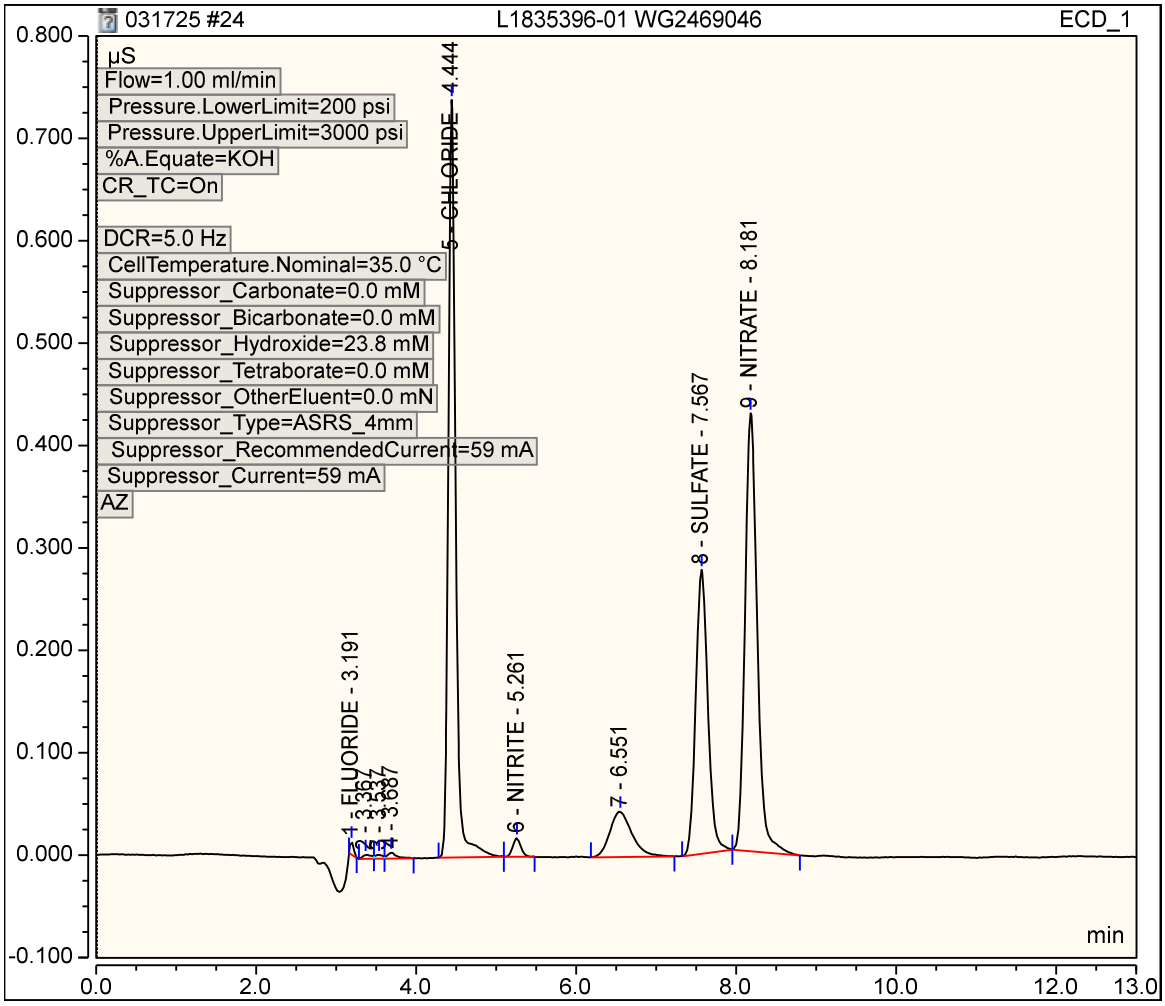
Sample Name:	**L1835396-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 15:03**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	4.44	CHLORIDE	BMB	0.518	5.315	4.2864
4	7.15	BROMIDE	BMB	46.944	137.834	900.5941
5	9.09	CHLORATE	BMB	0.006	0.027	0.2090
		TOTAL:		47.47	143.18	905.09



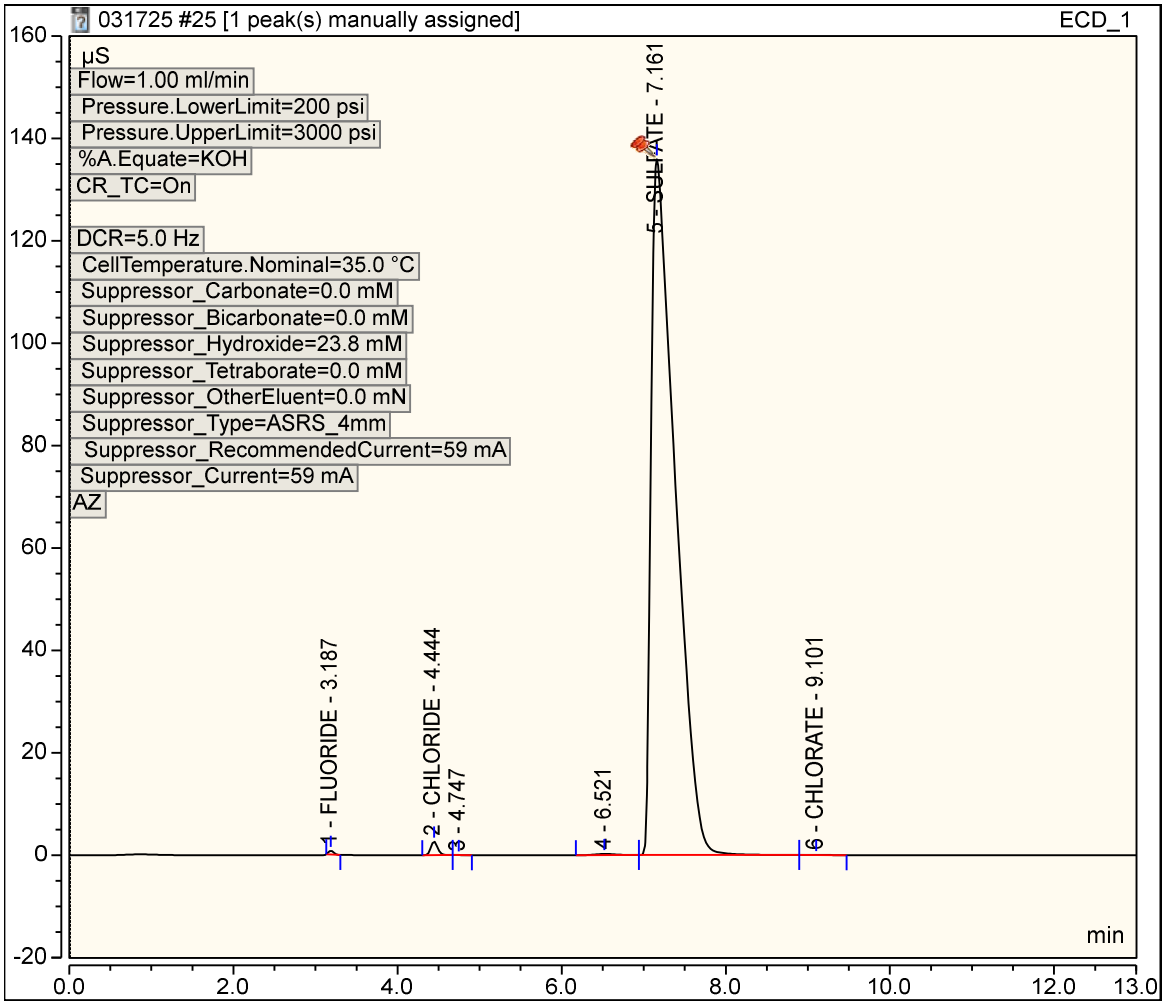
Sample Name:	**L1835396-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 15:19**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.001	0.013	0.3658
5	4.44	CHLORIDE	BMB	0.078	0.740	7.9415
6	5.26	NITRITE	BMB	0.002	0.018	0.5307
8	7.57	SULFATE	BMB	0.049	0.277	7.5219
9	8.18	NITRATE	BMB	0.075	0.428	3.2925
		TOTAL:		0.20	1.48	19.65



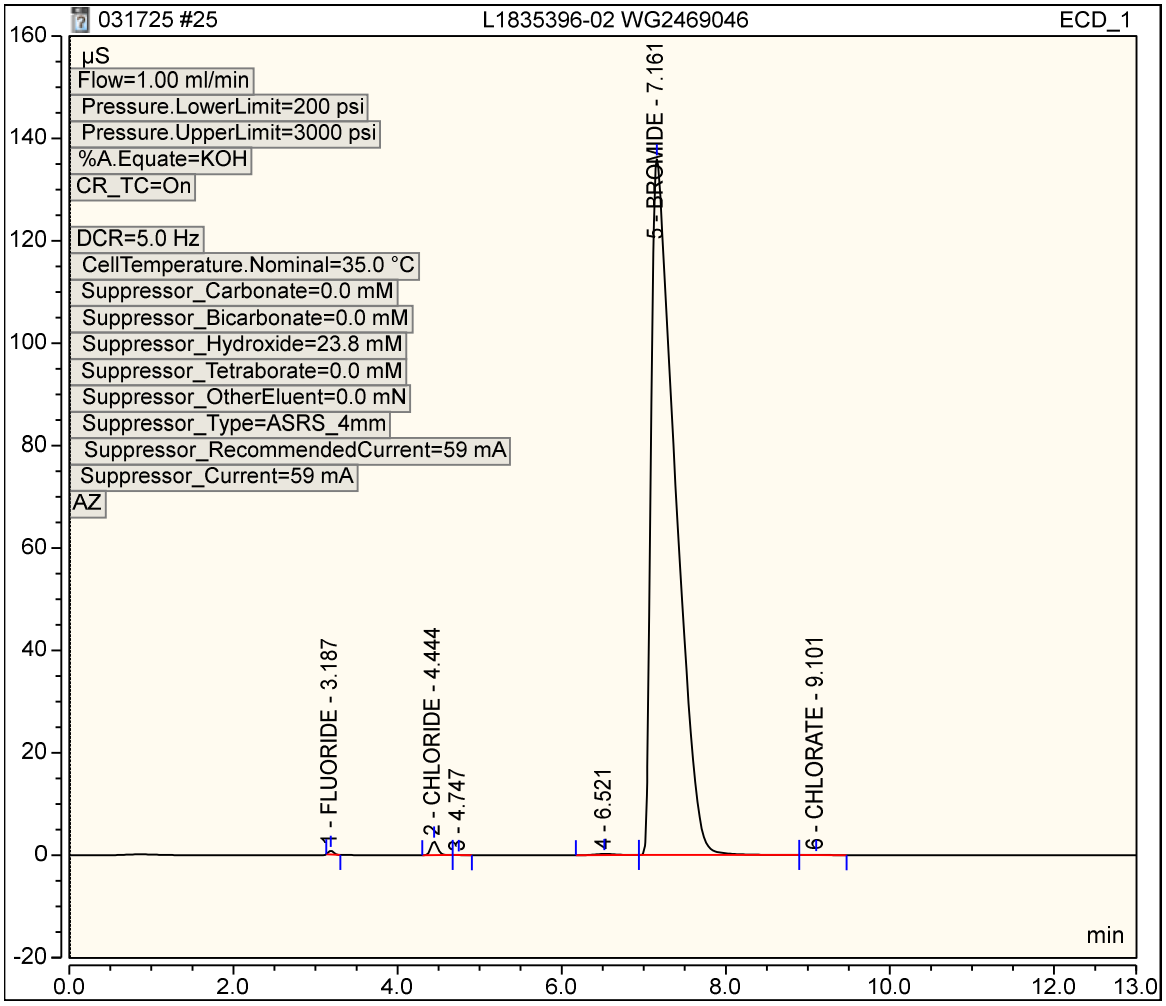
Sample Name:	**L1835396-02 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 15:35**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.055	0.752	0.3164
2	4.44	CHLORIDE	BMB	0.258	2.670	2.2294
5	7.16	SULFATE	BMB^	45.877	135.868	518.1987
6	9.10	CHLORATE	BMB	0.006	0.029	0.2232
		TOTAL:		46.20	139.32	520.97



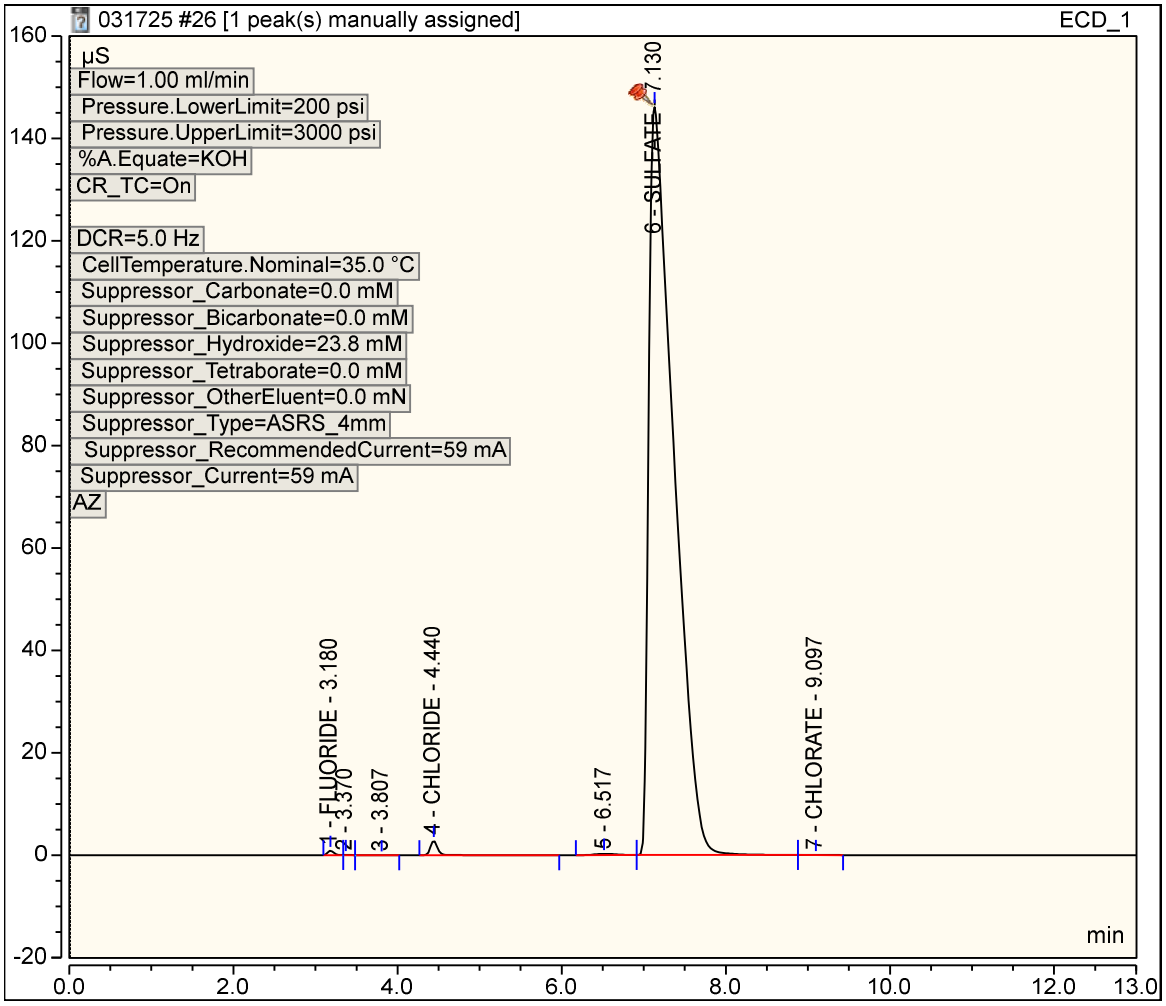
Sample Name:	**L1835396-02 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 15:35**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.055	0.752	0.3164
2	4.44	CHLORIDE	BMB	0.258	2.670	2.2294
5	7.16	BROMIDE	BMB	45.877	135.868	880.1486
6	9.10	CHLORATE	BMB	0.006	0.029	0.2232
		TOTAL:		46.20	139.32	882.92



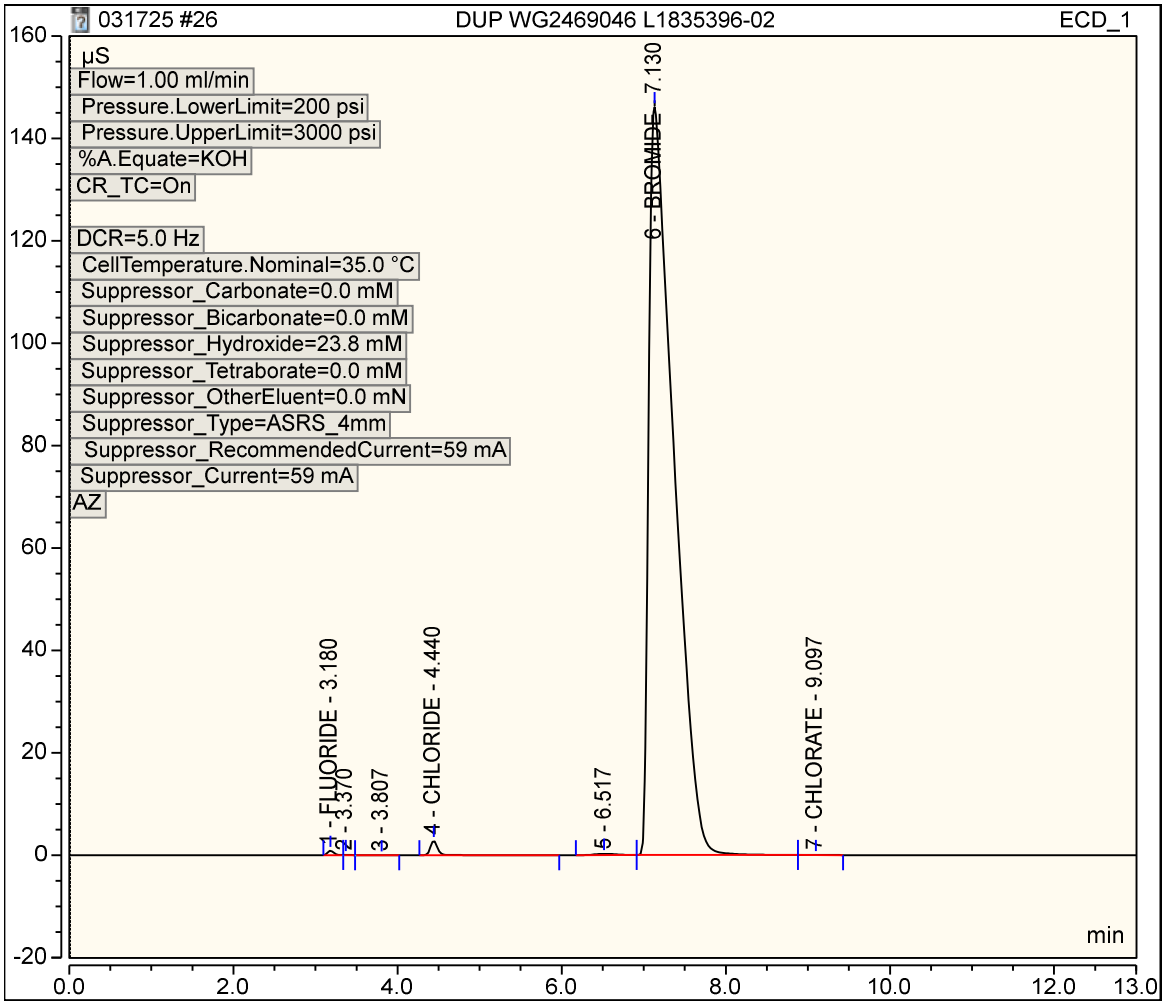
Sample Name:	**DUP WG2469046 L1835396-02**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 15:51**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.079	0.887	0.4415
4	4.44	CHLORIDE	BMB	0.288	2.823	2.4603
6	7.13	SULFATE	BMB^	51.321	146.048	579.6575
7	9.10	CHLORATE	BMB	0.007	0.031	0.2379
		TOTAL:		51.69	149.79	582.80



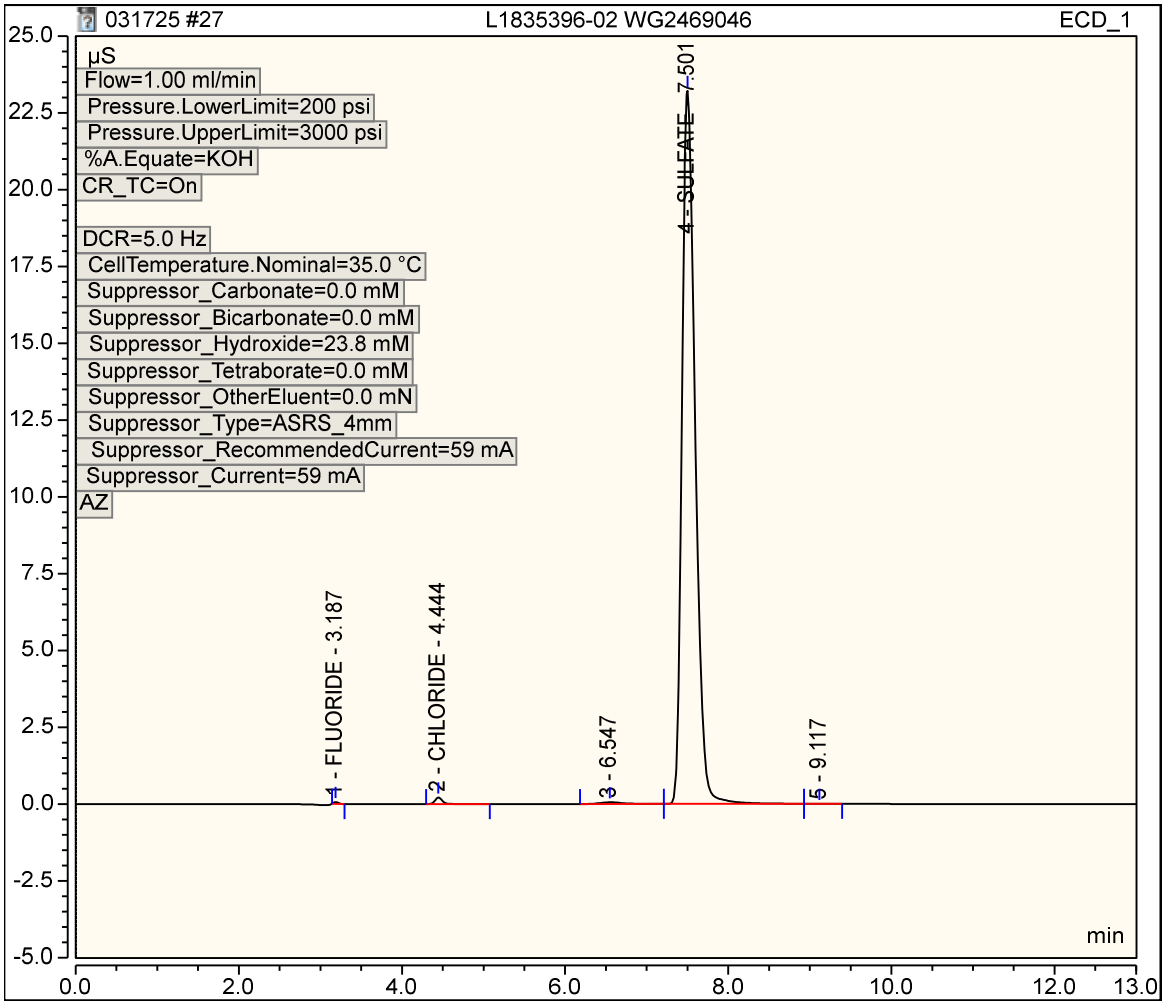
Sample Name:	**DUP WG2469046 L1835396-02**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 15:51**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.079	0.887	0.4415
4	4.44	CHLORIDE	BMB	0.288	2.823	2.4603
6	7.13	BROMIDE	BMB	51.321	146.048	984.5127
7	9.10	CHLORATE	BMB	0.007	0.031	0.2379
		TOTAL:		51.69	149.79	987.65



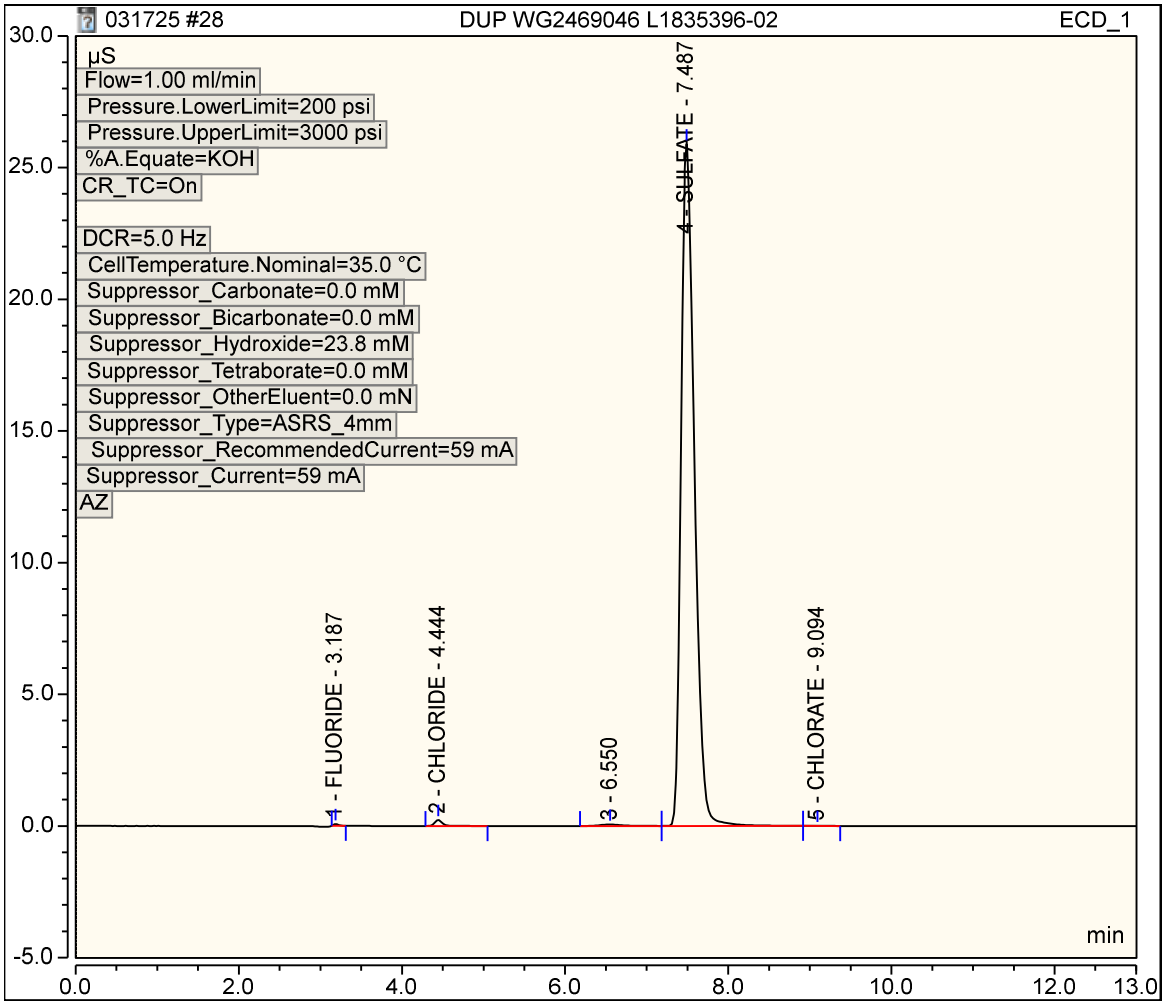
Sample Name:	**L1835396-02 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 16:07**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.005	0.065	0.5667
2	4.44	CHLORIDE	BMB	0.024	0.219	3.6452
4	7.50	SULFATE	BMB	4.341	23.210	492.2040
		TOTAL:		4.37	23.49	496.42



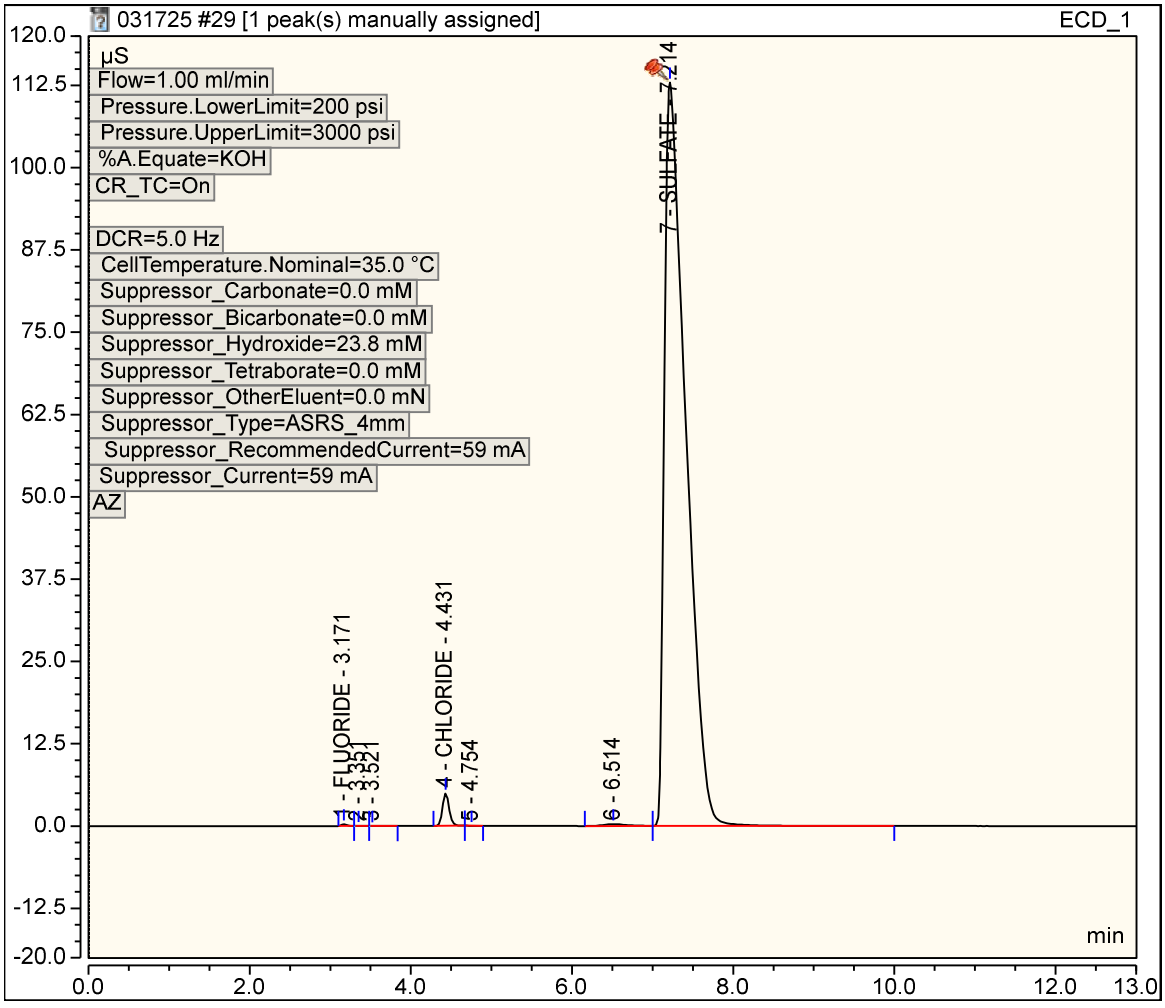
Sample Name:	**DUP WG2469046 L1835396-02**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 16:23**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.005	0.068	0.5764
2	4.44	CHLORIDE	BMB	0.025	0.232	3.7612
4	7.49	SULFATE	BMB	4.913	25.885	556.6994
5	9.09	CHLORATE	BMB	0.001	0.003	0.4975
		TOTAL:		4.94	26.19	561.53



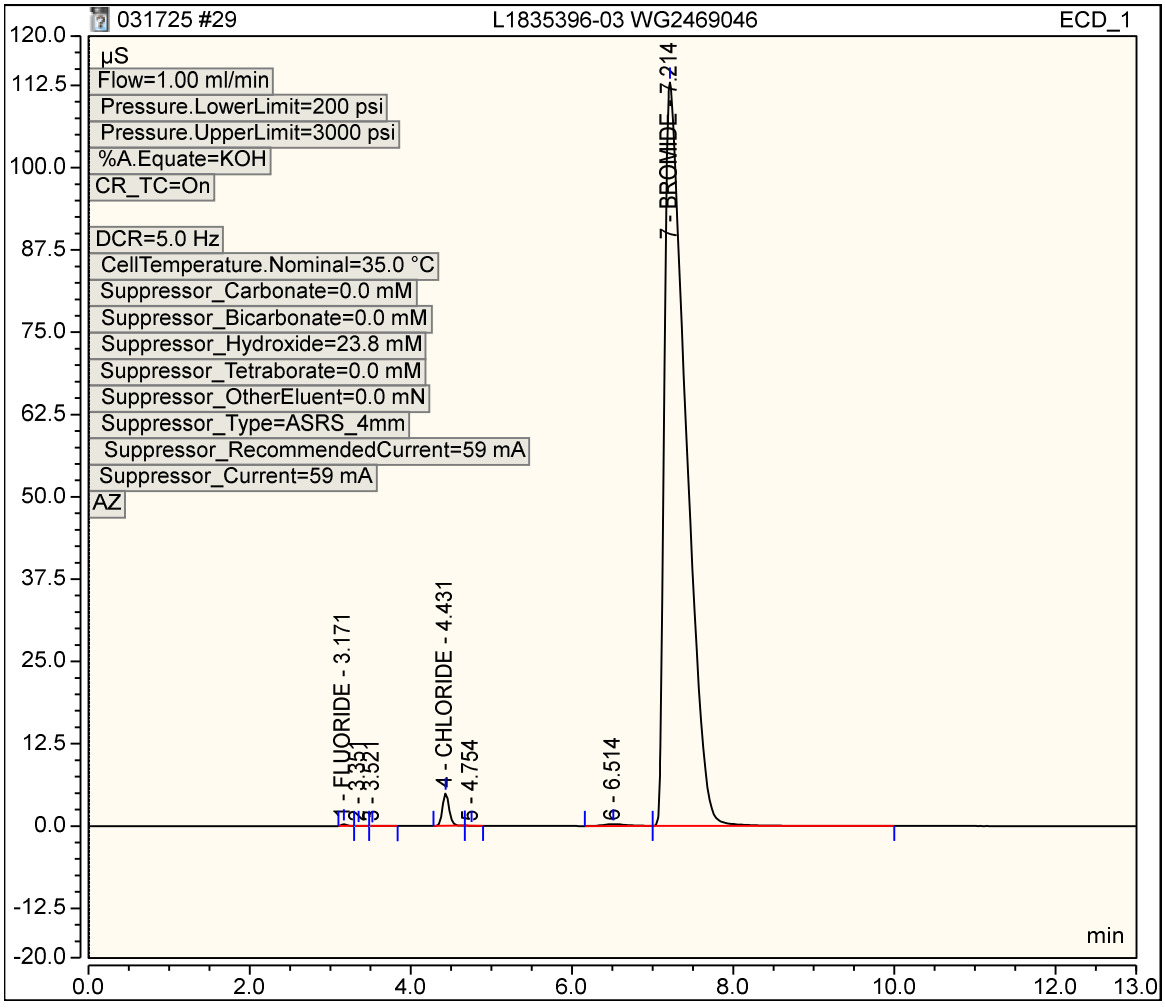
Sample Name:	**L1835396-03 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 16:38**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.17	FLUORIDE	BM	0.022	0.258	0.1459
4	4.43	CHLORIDE	BMB	0.480	4.943	3.9862
7	7.21	SULFATE	BMB^	34.659	112.915	391.5274
		TOTAL:		35.16	118.12	395.66



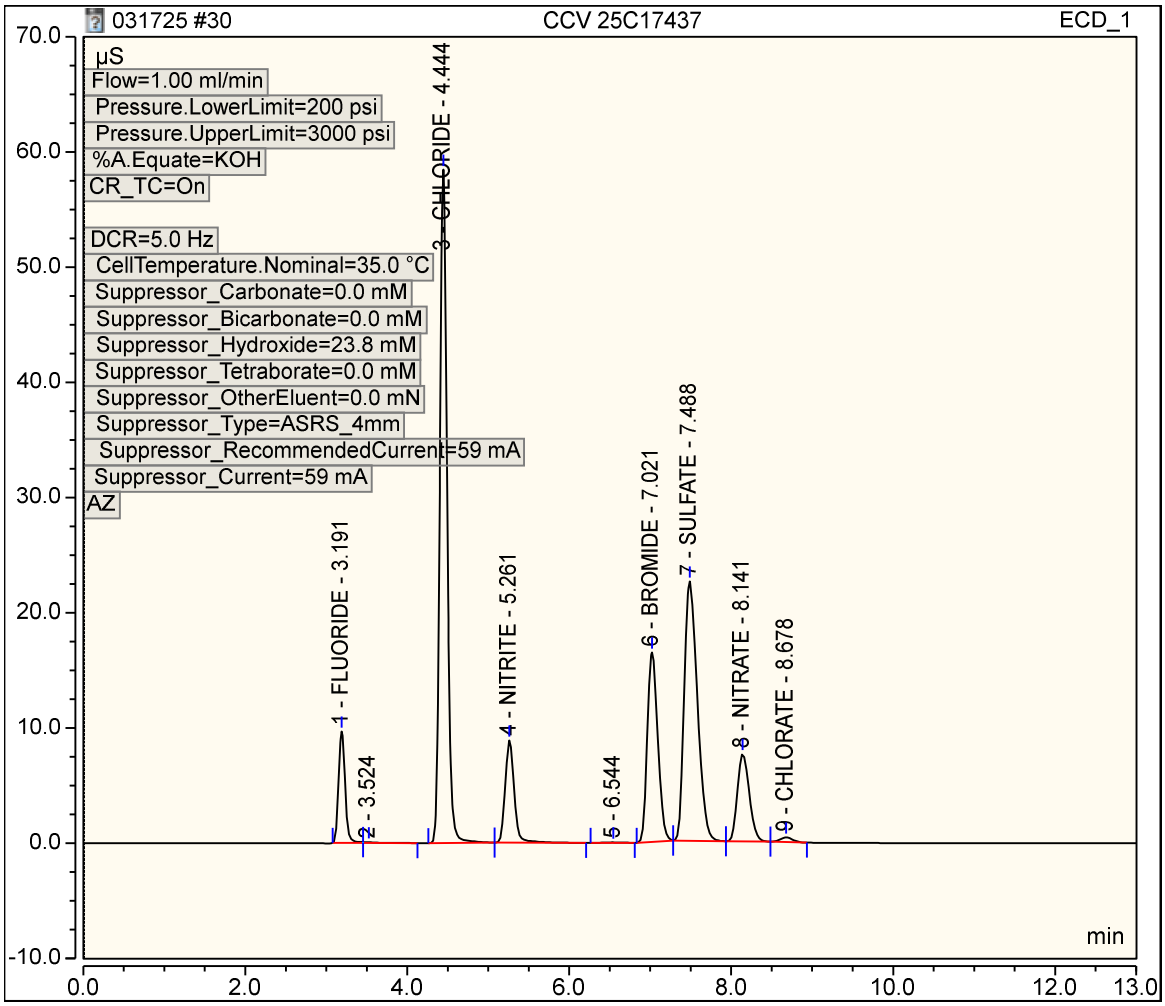
Sample Name:	**L1835396-03 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 16:38**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.17	FLUORIDE	BM	0.022	0.258	0.1459
4	4.43	CHLORIDE	BMB	0.480	4.943	3.9862
7	7.21	BROMIDE	BMB	34.659	112.915	665.0461
		TOTAL:		35.16	118.12	669.18



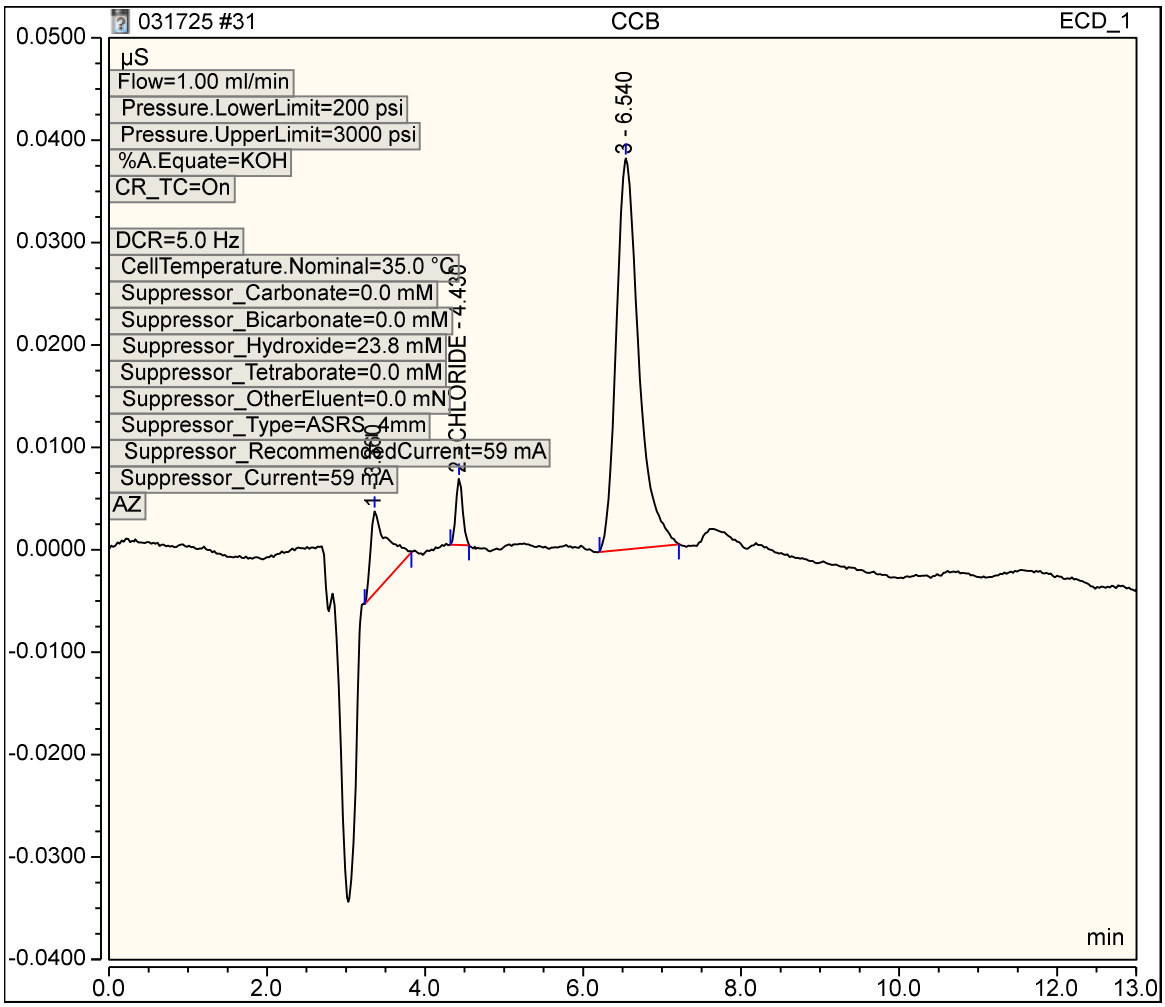
Sample Name:	**CCV 25C17437**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 16:54**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.902	9.684	4.6827
3	4.44	CHLORIDE	BMB	6.035	58.432	48.0997
4	5.26	NITRITE	BMB	1.150	8.876	4.7709
6	7.02	BROMIDE	BMB	2.460	16.436	47.7012
7	7.49	SULFATE	BMB	4.228	22.507	47.9439
8	8.14	NITRATE	BMB	1.298	7.598	4.6299
9	8.68	CHLORATE	BMB	0.071	0.404	2.3065
		TOTAL:		16.14	123.94	160.13



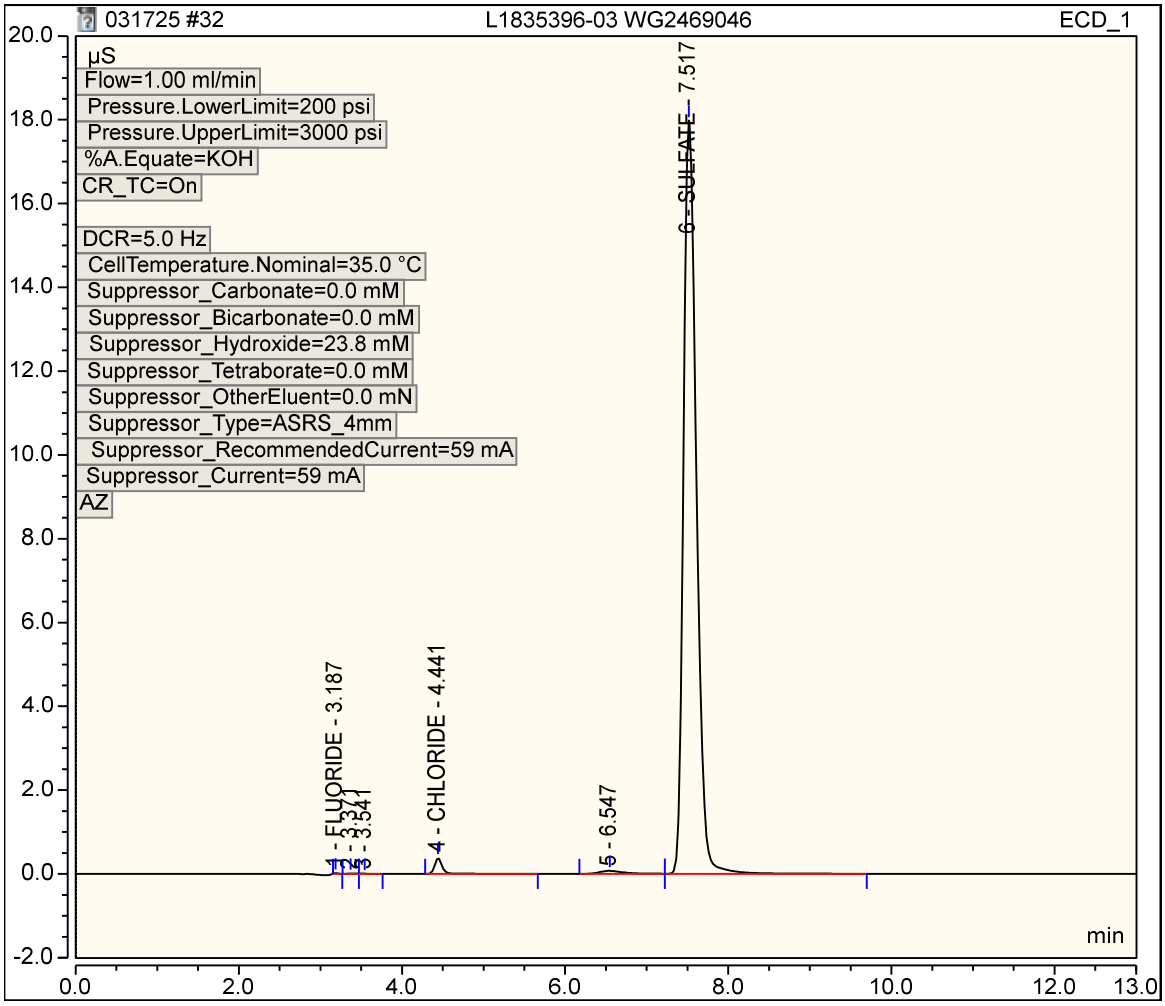
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 17:10**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
2	4.43	CHLORIDE	BMB	0.001	0.006	0.1824
		TOTAL:		0.00	0.01	0.18



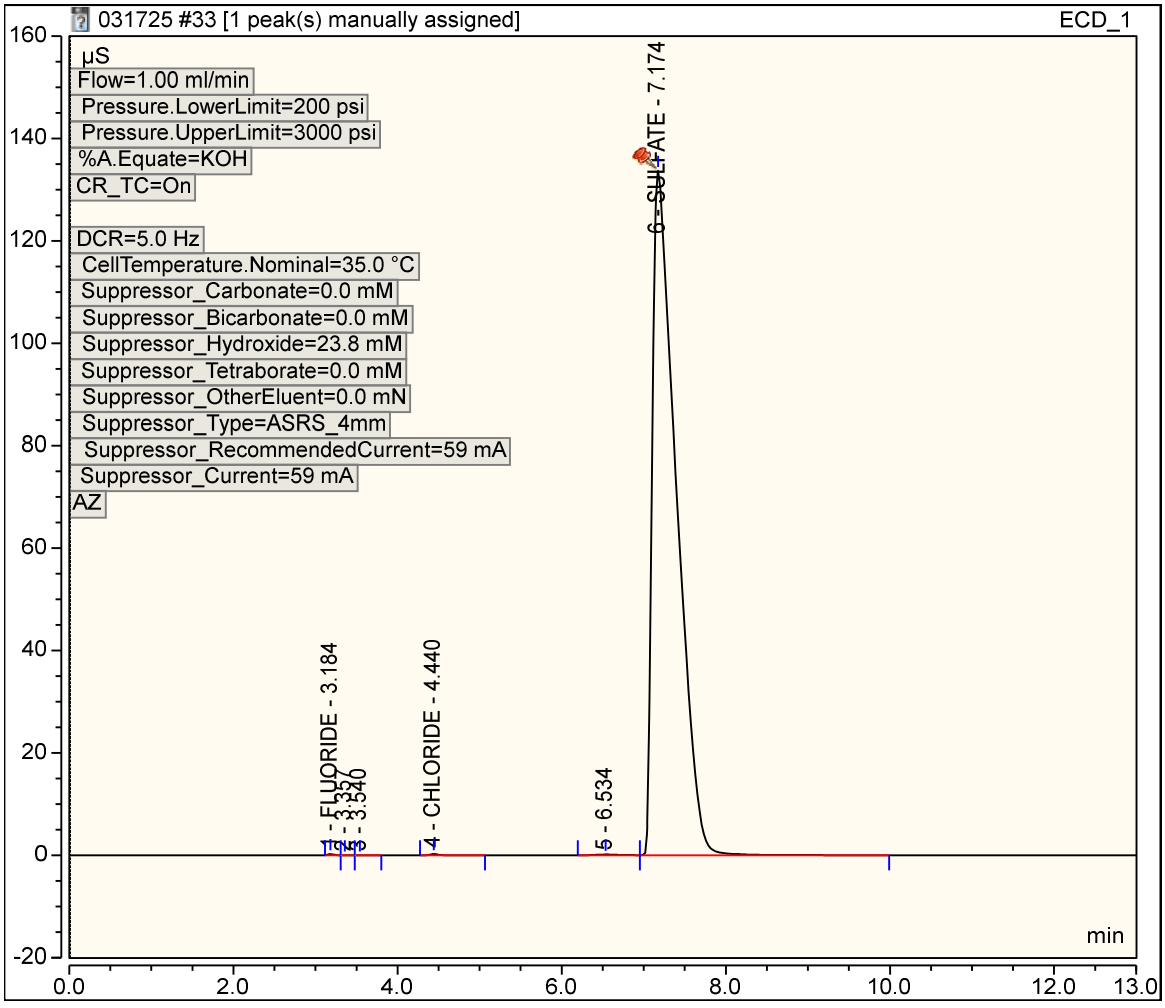
Sample Name:	**L1835396-03 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 17:26**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.001	0.015	0.3758
4	4.44	CHLORIDE	BMB	0.041	0.380	5.0622
6	7.52	SULFATE	BMB	3.283	17.974	372.6688
		TOTAL:		3.32	18.37	378.11



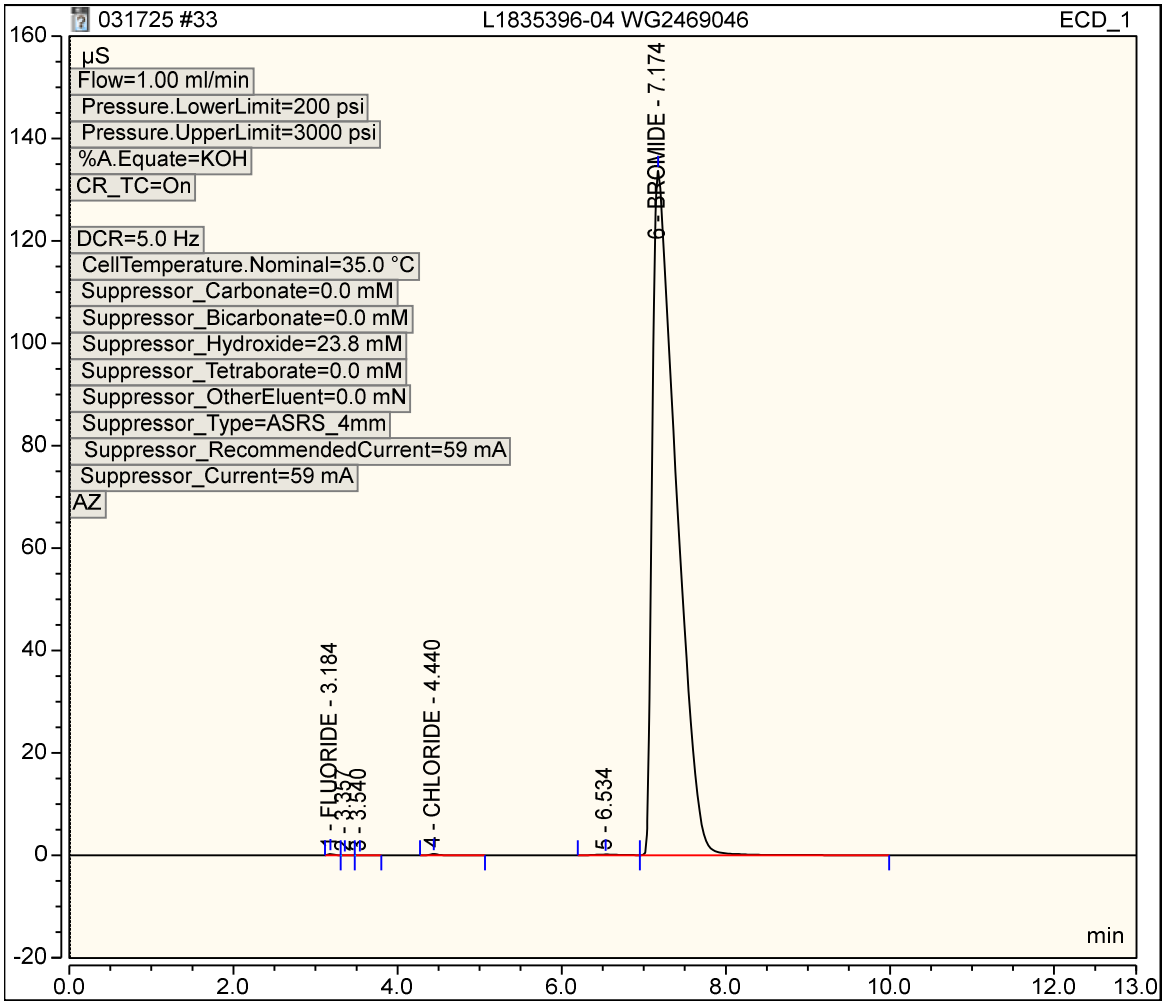
Sample Name:	**L1835396-04 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 17:42**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.020	0.238	0.1380
4	4.44	CHLORIDE	BMB	0.030	0.279	0.4136
6	7.17	SULFATE	BMB^	44.980	133.661	508.0600
		TOTAL:		45.03	134.18	508.61



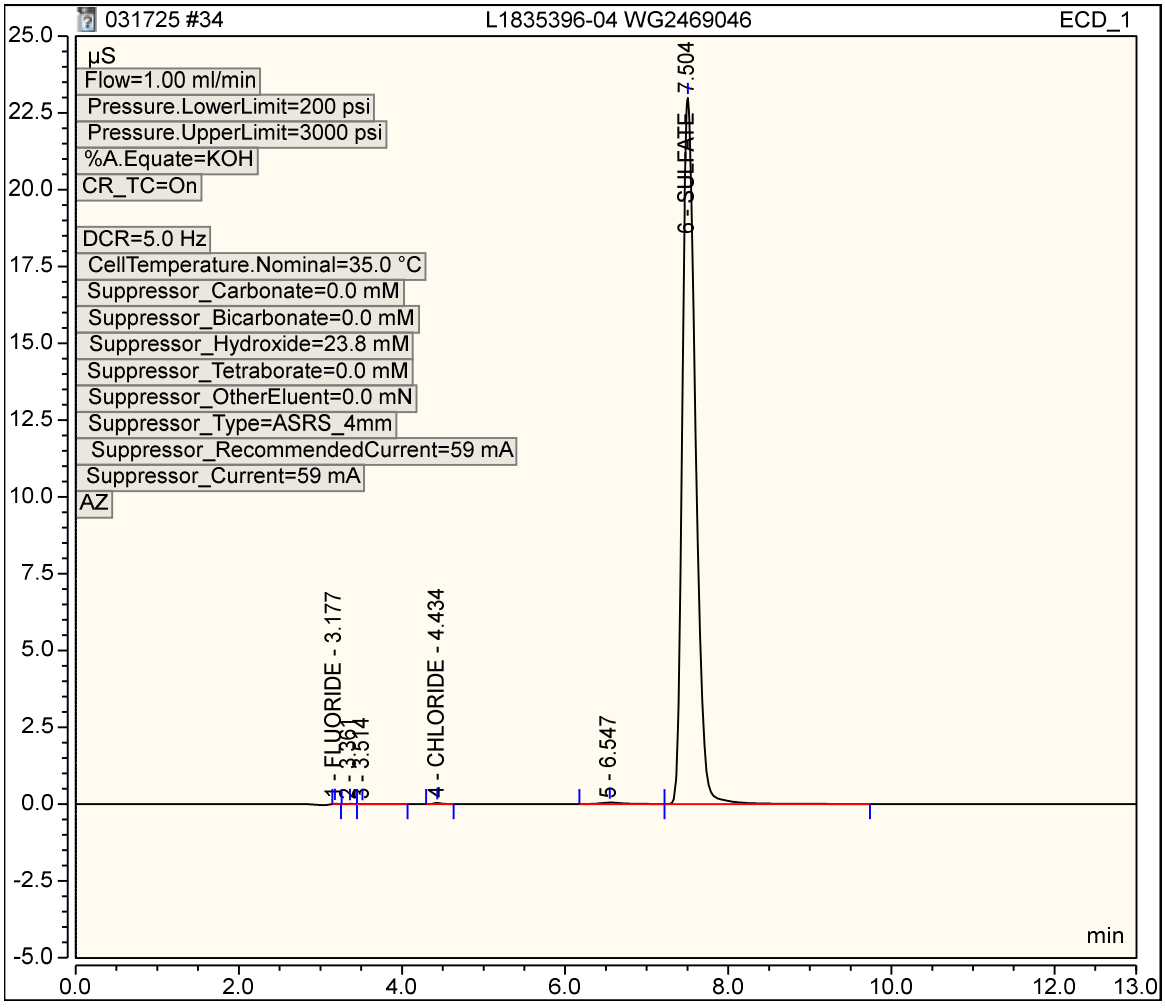
Sample Name:	**L1835396-04 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 17:42**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.020	0.238	0.1380
4	4.44	CHLORIDE	BMB	0.030	0.279	0.4136
6	7.17	BROMIDE	BMB	44.980	133.661	862.9318
		TOTAL:		45.03	134.18	863.48



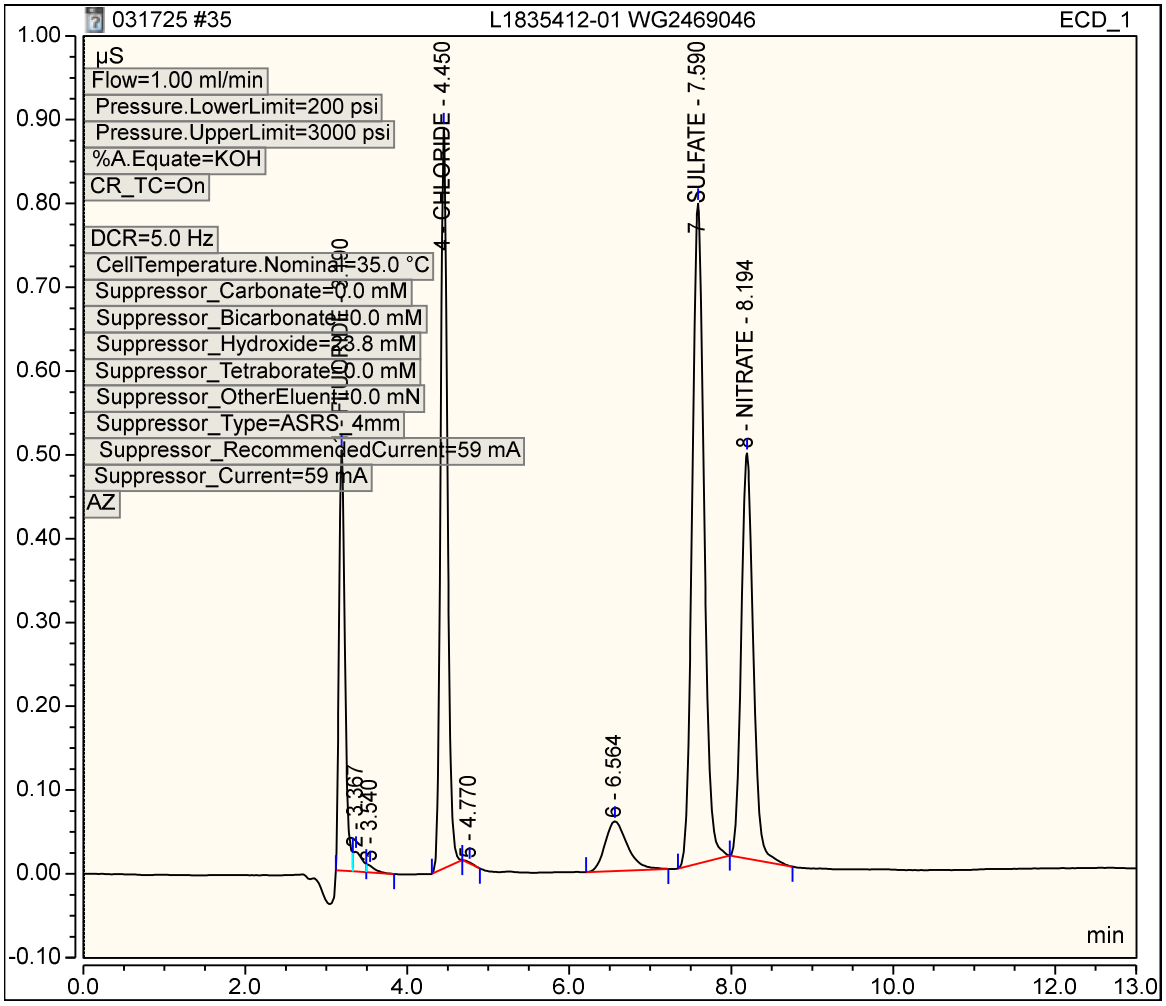
Sample Name:	**L1835396-04 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 17:58**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.001	0.012	0.3658
4	4.43	CHLORIDE	BMB	0.004	0.036	2.0653
6	7.50	SULFATE	BMB	4.309	22.982	488.5163
		TOTAL:		4.31	23.03	490.95



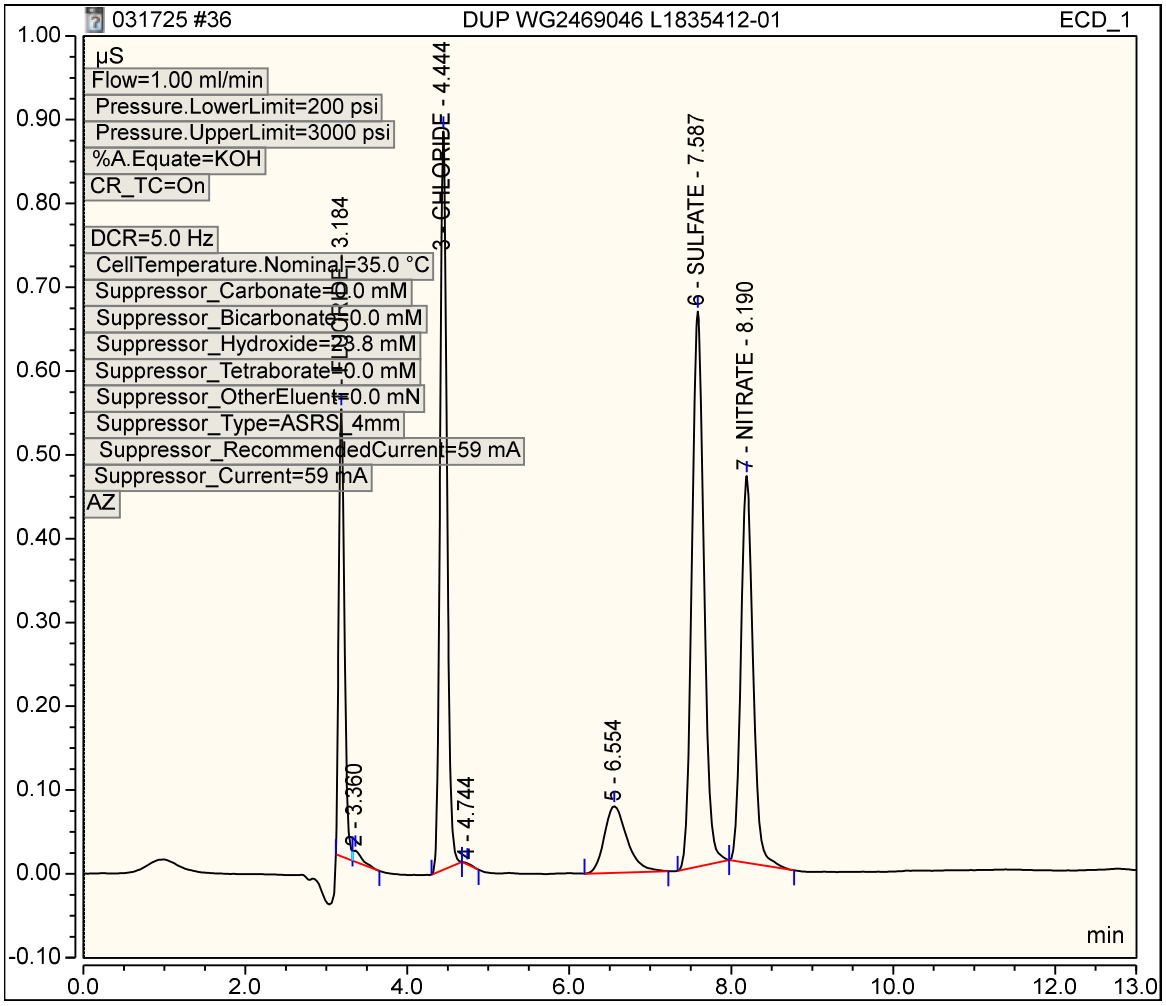
Sample Name:	**L1835412-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 18:14**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.042	0.502	0.2499
4	4.45	CHLORIDE	BMB	0.087	0.884	0.8683
7	7.59	SULFATE	BMB	0.135	0.788	1.7257
8	8.19	NITRATE	BMB	0.083	0.484	0.3564
		TOTAL:		0.35	2.66	3.20



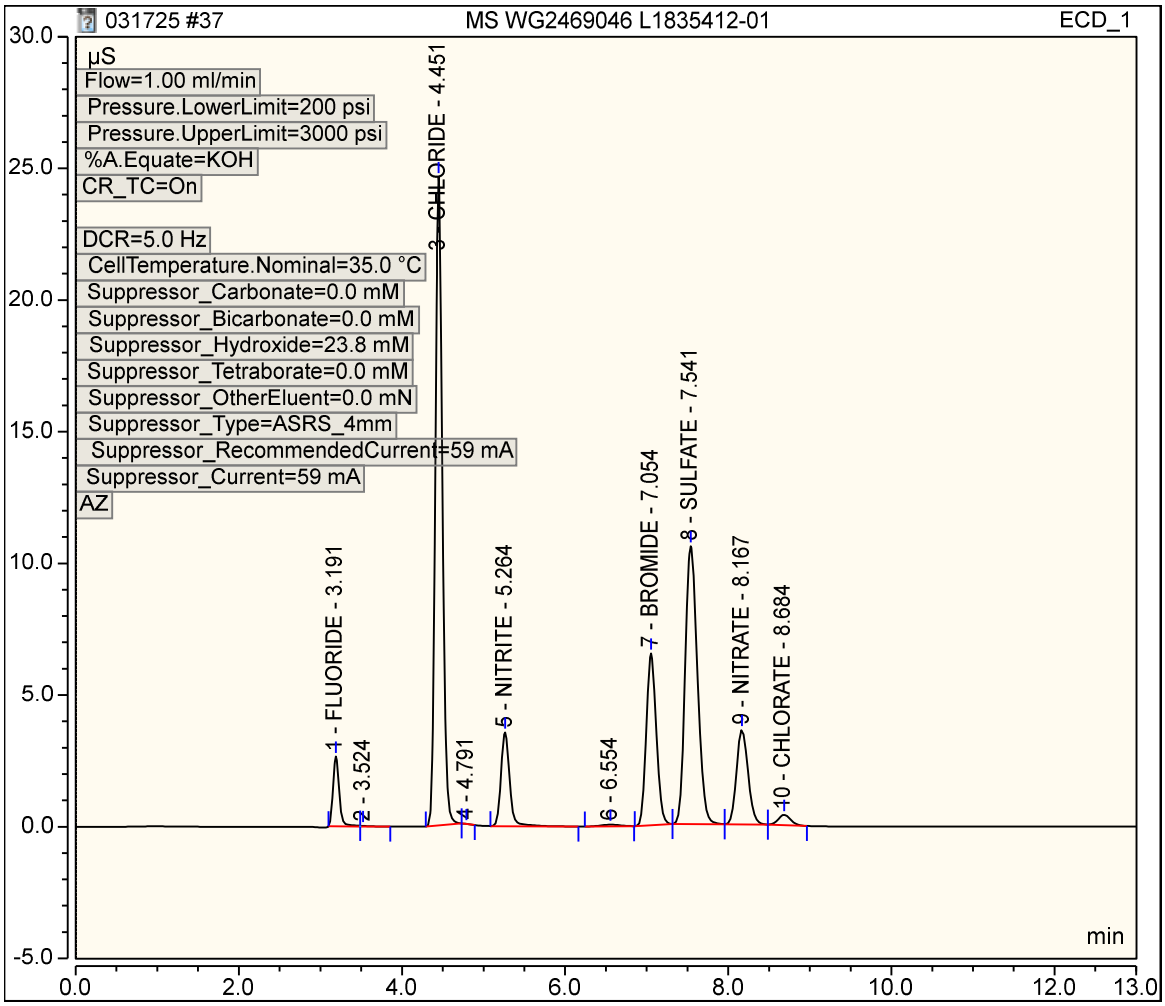
Sample Name:	**DUP WG2469046 L1835412-01**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 18:29**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.043	0.534	0.2543
3	4.44	CHLORIDE	BMB	0.087	0.881	0.8667
6	7.59	SULFATE	BMB	0.114	0.663	1.4905
7	8.19	NITRATE	BMB	0.080	0.462	0.3447
		TOTAL:		0.32	2.54	2.96



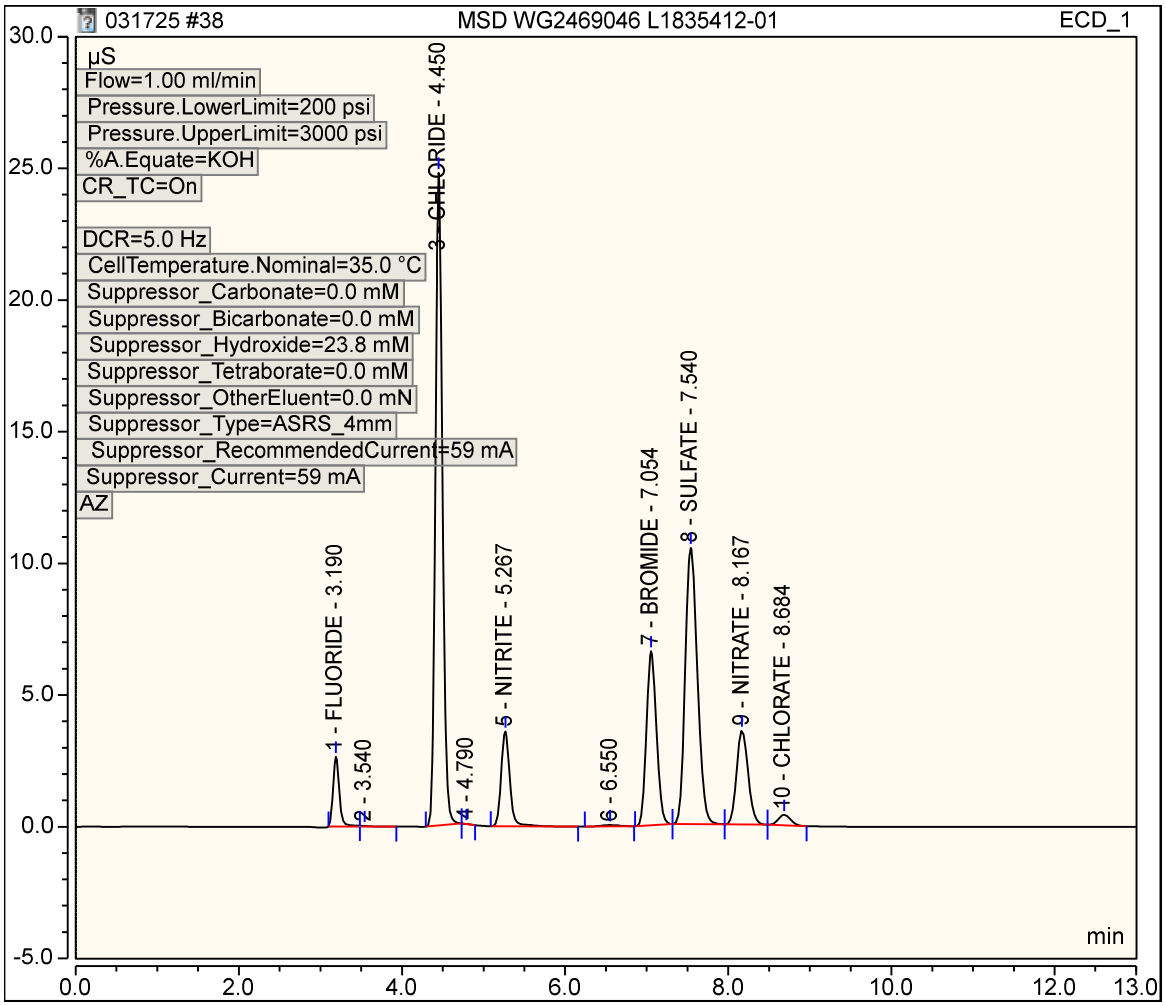
Sample Name:	**MS WG2469046 L1835412-01**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 18:45**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.231	2.648	1.2246
3	4.45	CHLORIDE	BMB	2.471	24.623	19.8002
5	5.26	NITRITE	BMB	0.438	3.556	1.8442
7	7.05	BROMIDE	BMB	0.930	6.527	18.3611
8	7.54	SULFATE	BMB	1.830	10.553	20.8613
9	8.17	NITRATE	BMB	0.590	3.588	2.1402
10	8.68	CHLORATE	BMB	0.069	0.389	2.2449
		TOTAL:		6.56	51.89	66.48



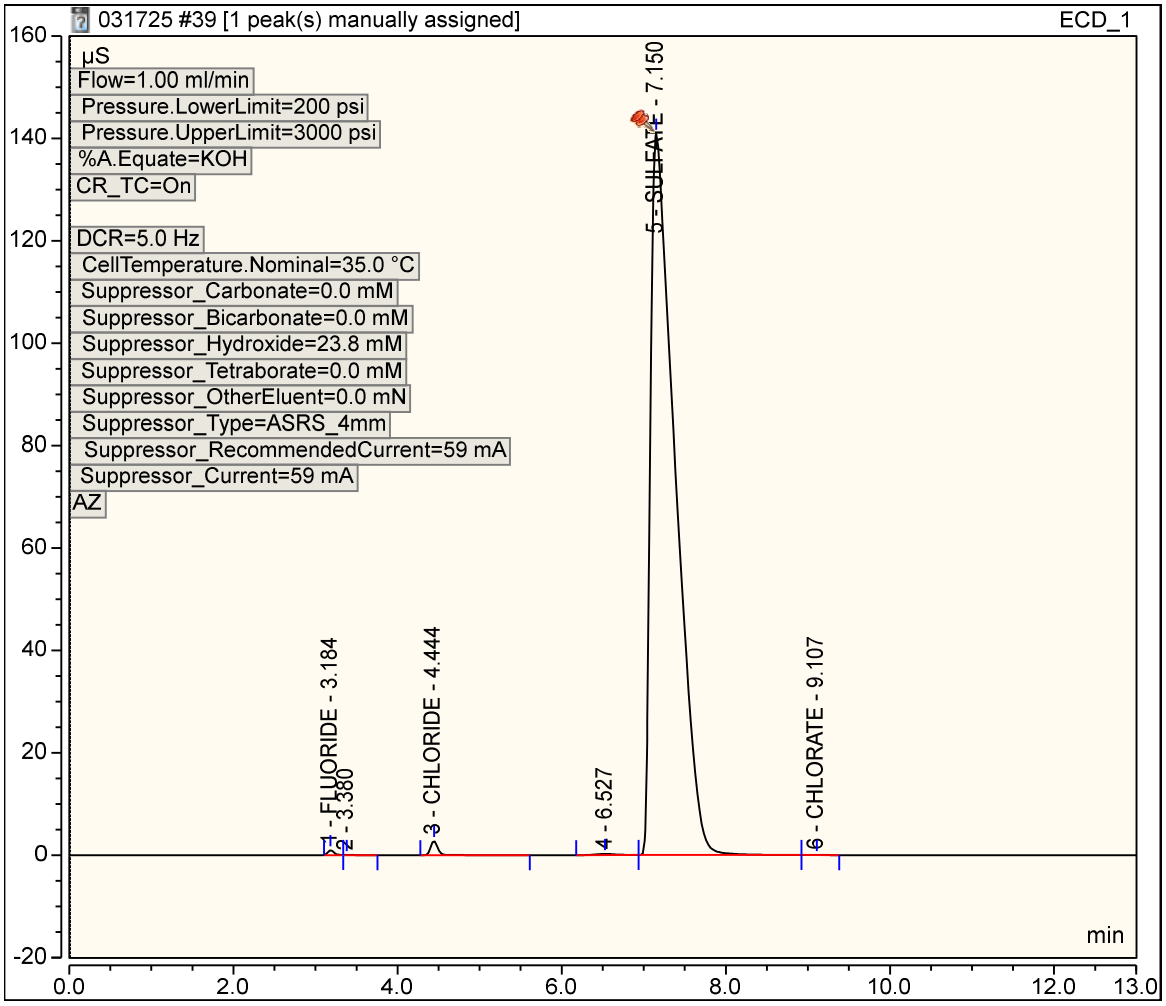
Sample Name:	**MSD WG2469046 L1835412-01**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 19:01**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.232	2.652	1.2297
3	4.45	CHLORIDE	BMB	2.488	24.791	19.9319
5	5.27	NITRITE	BMB	0.443	3.596	1.8656
7	7.05	BROMIDE	BMB	0.942	6.616	18.5934
8	7.54	SULFATE	BMB	1.815	10.499	20.6958
9	8.17	NITRATE	BMB	0.587	3.575	2.1284
10	8.68	CHLORATE	BMB	0.070	0.396	2.2847
		TOTAL:		6.58	52.13	66.73



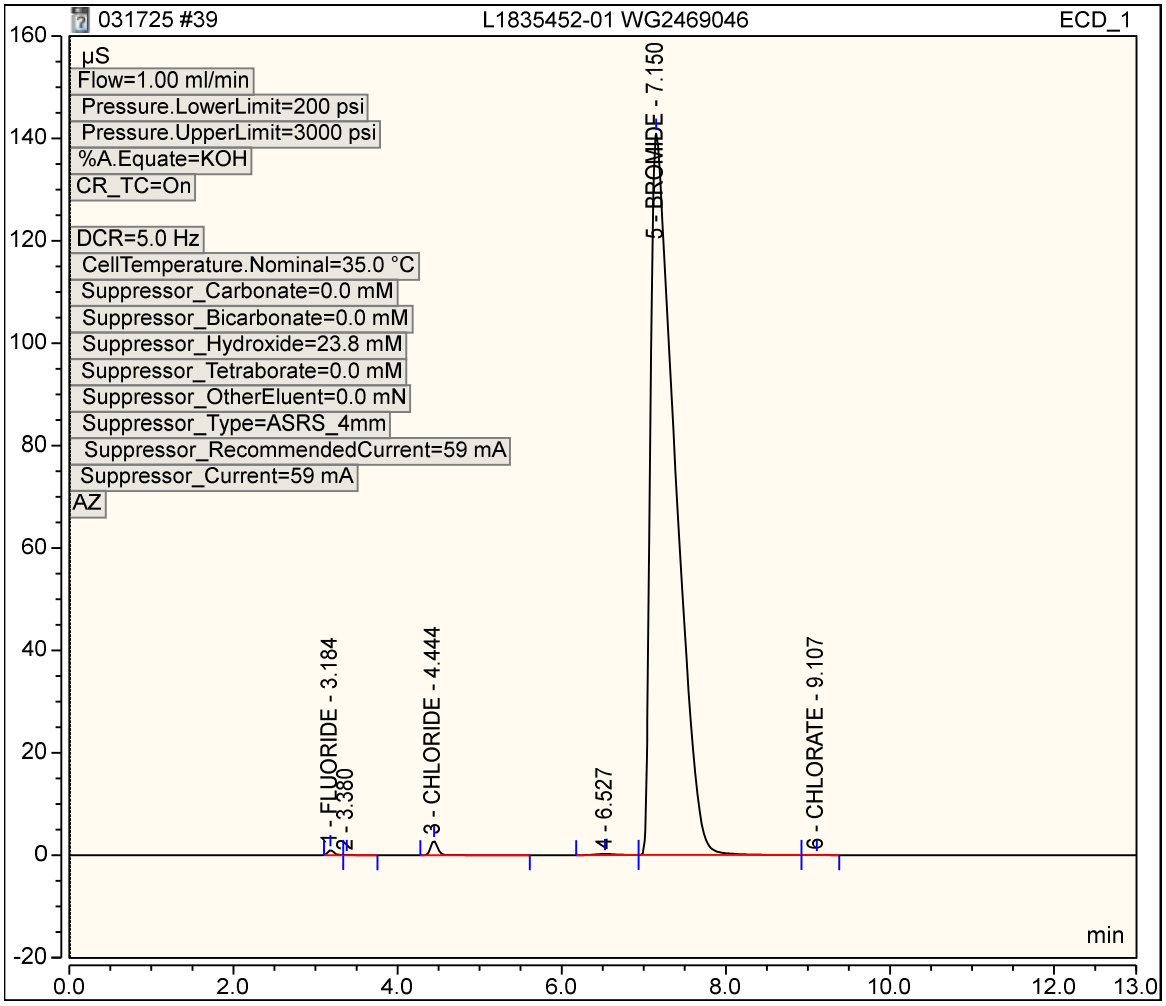
Sample Name:	**L1835452-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 19:17**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.086	0.985	0.4746
3	4.44	CHLORIDE	BMB	0.284	2.802	2.4326
5	7.15	SULFATE	BMB^	48.754	140.880	550.6803
6	9.11	CHLORATE	BMB	0.004	0.018	0.1442
		TOTAL:		49.13	144.68	553.73



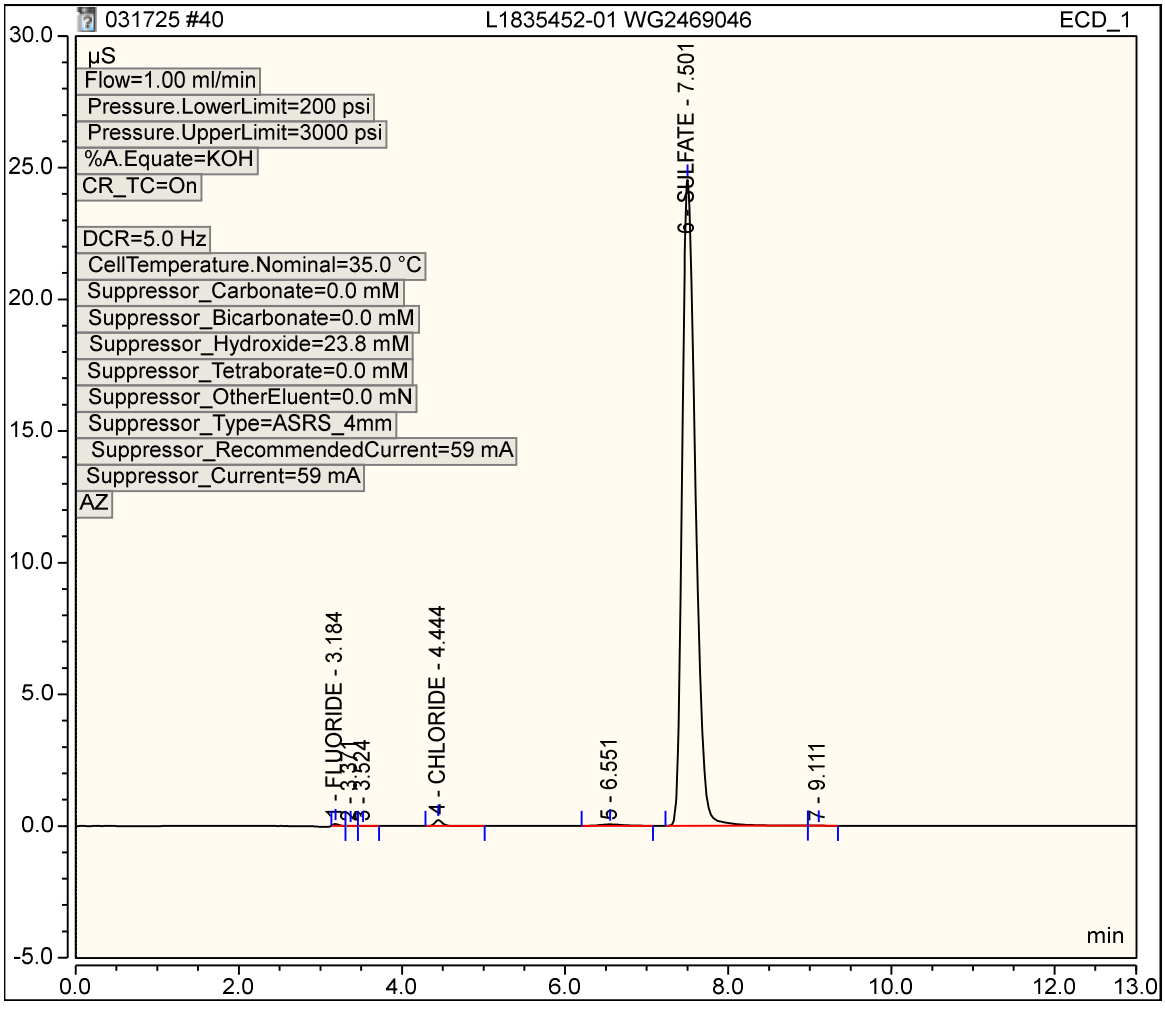
Sample Name:	**L1835452-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 19:17**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.086	0.985	0.4746
3	4.44	CHLORIDE	BMB	0.284	2.802	2.4326
5	7.15	BROMIDE	BMB	48.754	140.880	935.3060
6	9.11	CHLORATE	BMB	0.004	0.018	0.1442
		TOTAL:		49.13	144.68	938.36



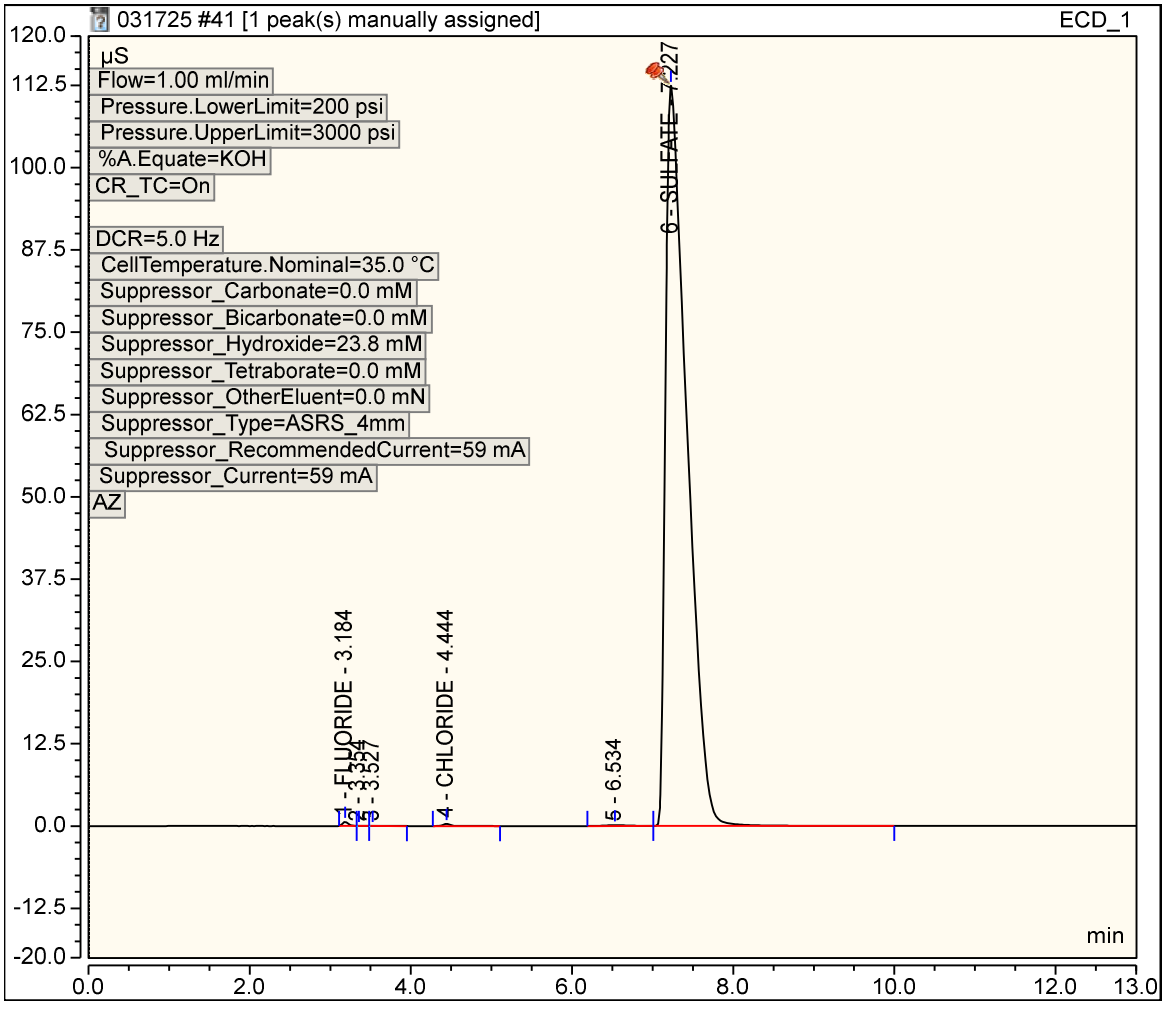
Sample Name:	**L1835452-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 19:33**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.006	0.077	0.6207
4	4.44	CHLORIDE	BMB	0.025	0.232	3.7471
6	7.50	SULFATE	BMB	4.625	24.535	524.2184
		TOTAL:		4.66	24.84	528.59



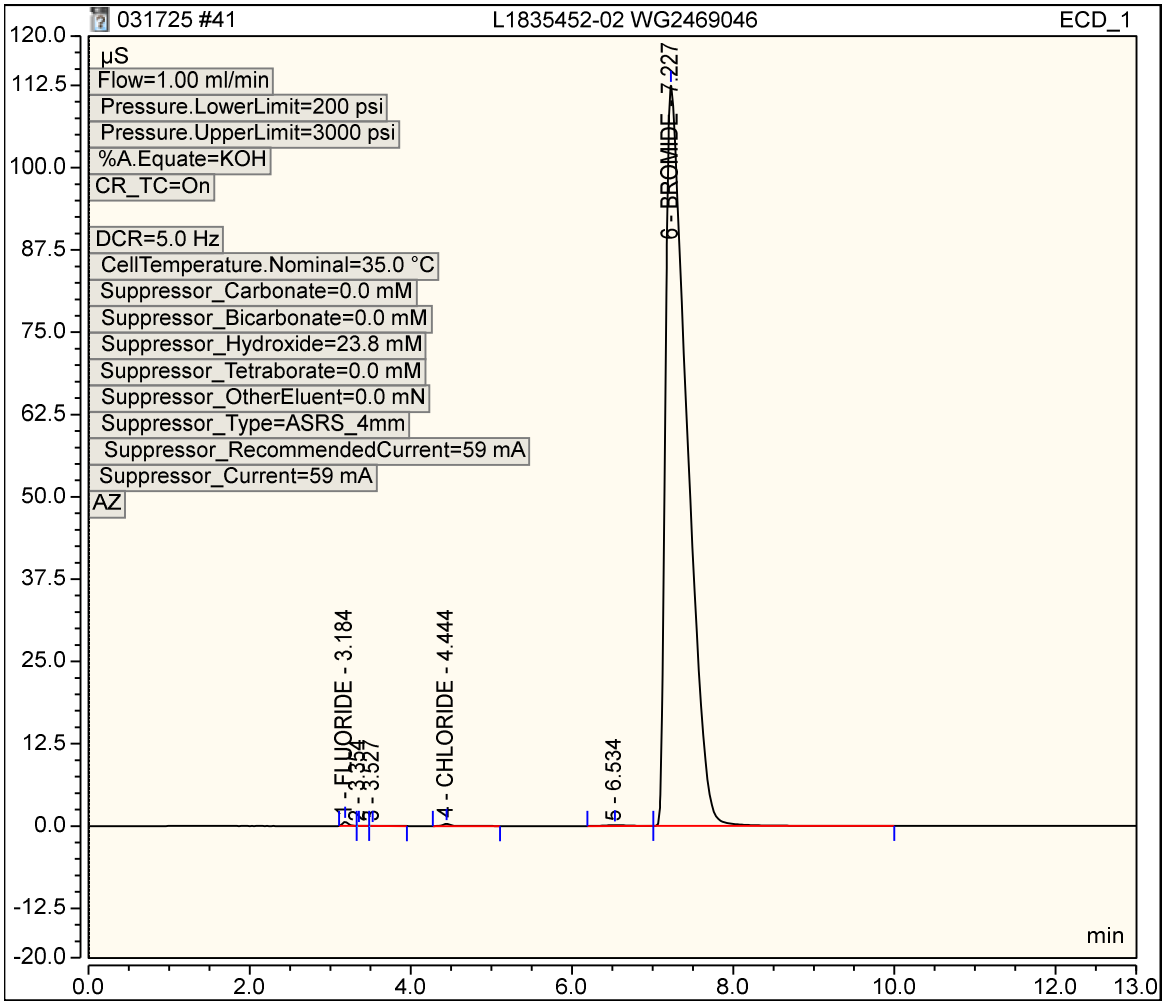
Sample Name:	**L1835452-02 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 19:49**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.055	0.640	0.3184
4	4.44	CHLORIDE	BMB	0.035	0.333	0.4573
6	7.23	SULFATE	BMB^	34.510	112.424	389.8471
		TOTAL:		34.60	113.40	390.62



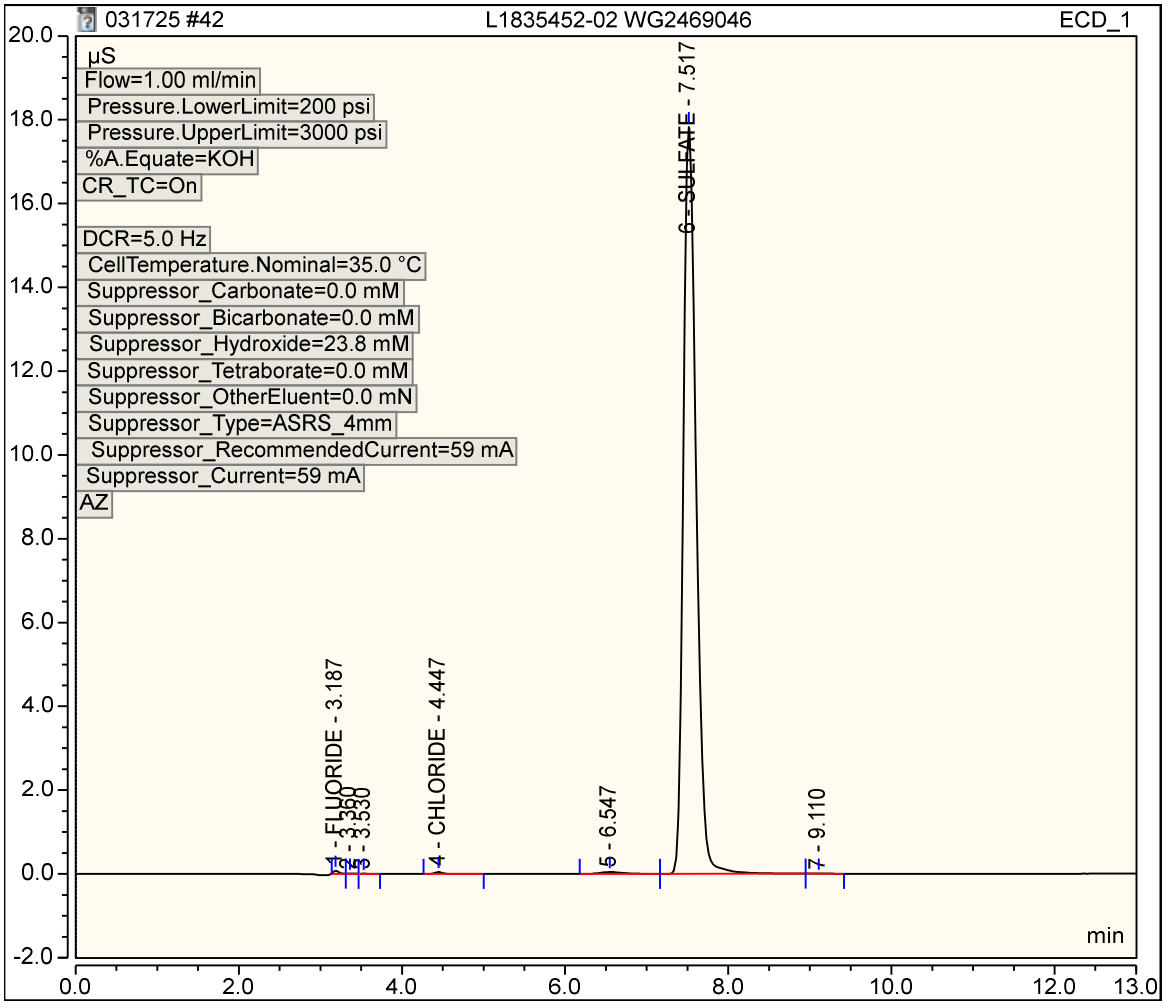
Sample Name:	**L1835452-02 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 19:49**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.055	0.640	0.3184
4	4.44	CHLORIDE	BMB	0.035	0.333	0.4573
6	7.23	BROMIDE	BMB	34.510	112.424	662.1927
		TOTAL:		34.60	113.40	662.97



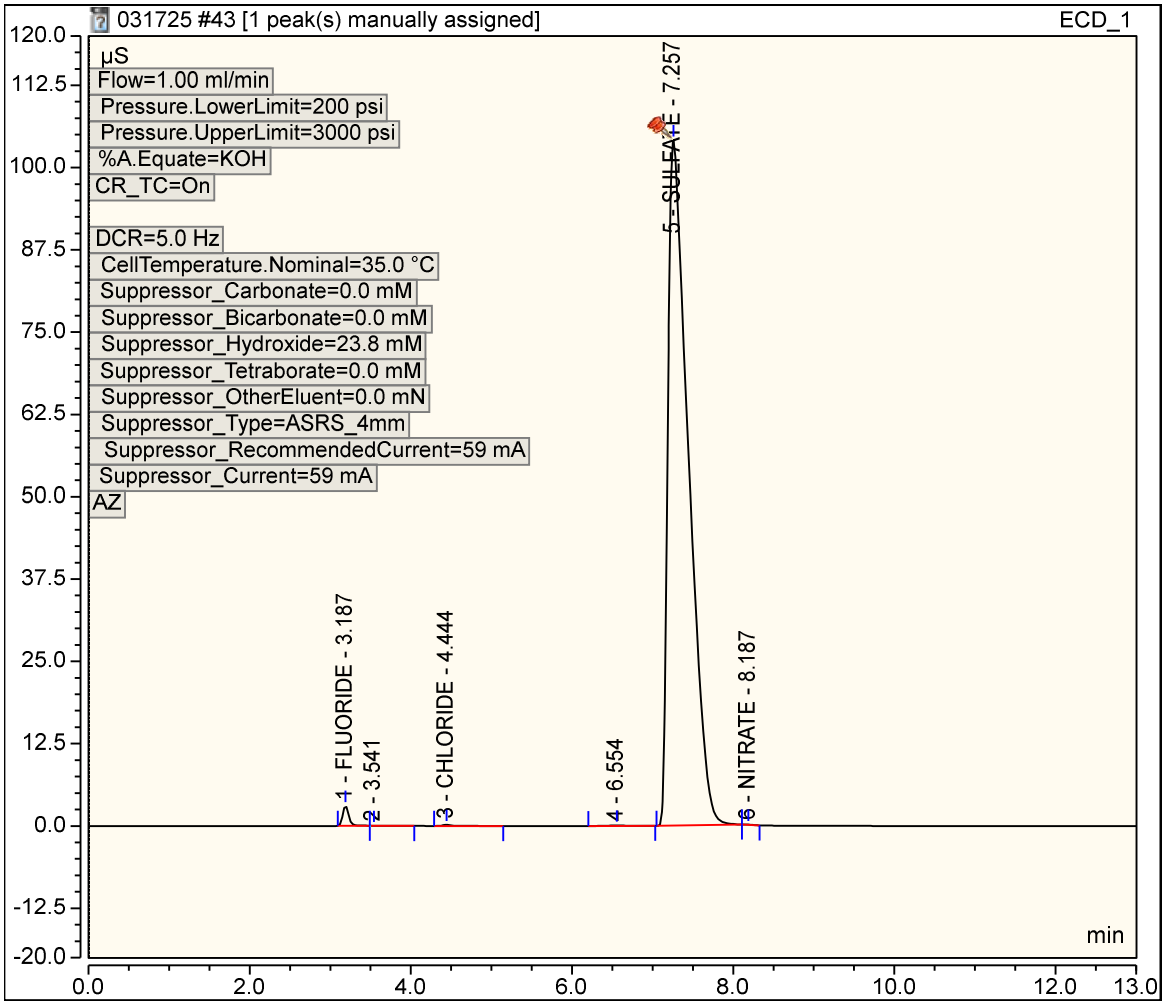
Sample Name:	**L1835452-02 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 20:05**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.006	0.075	0.6213
4	4.45	CHLORIDE	BMB	0.005	0.048	2.2057
6	7.52	SULFATE	BMB	3.244	17.828	368.2862
		TOTAL:		3.25	17.95	371.11



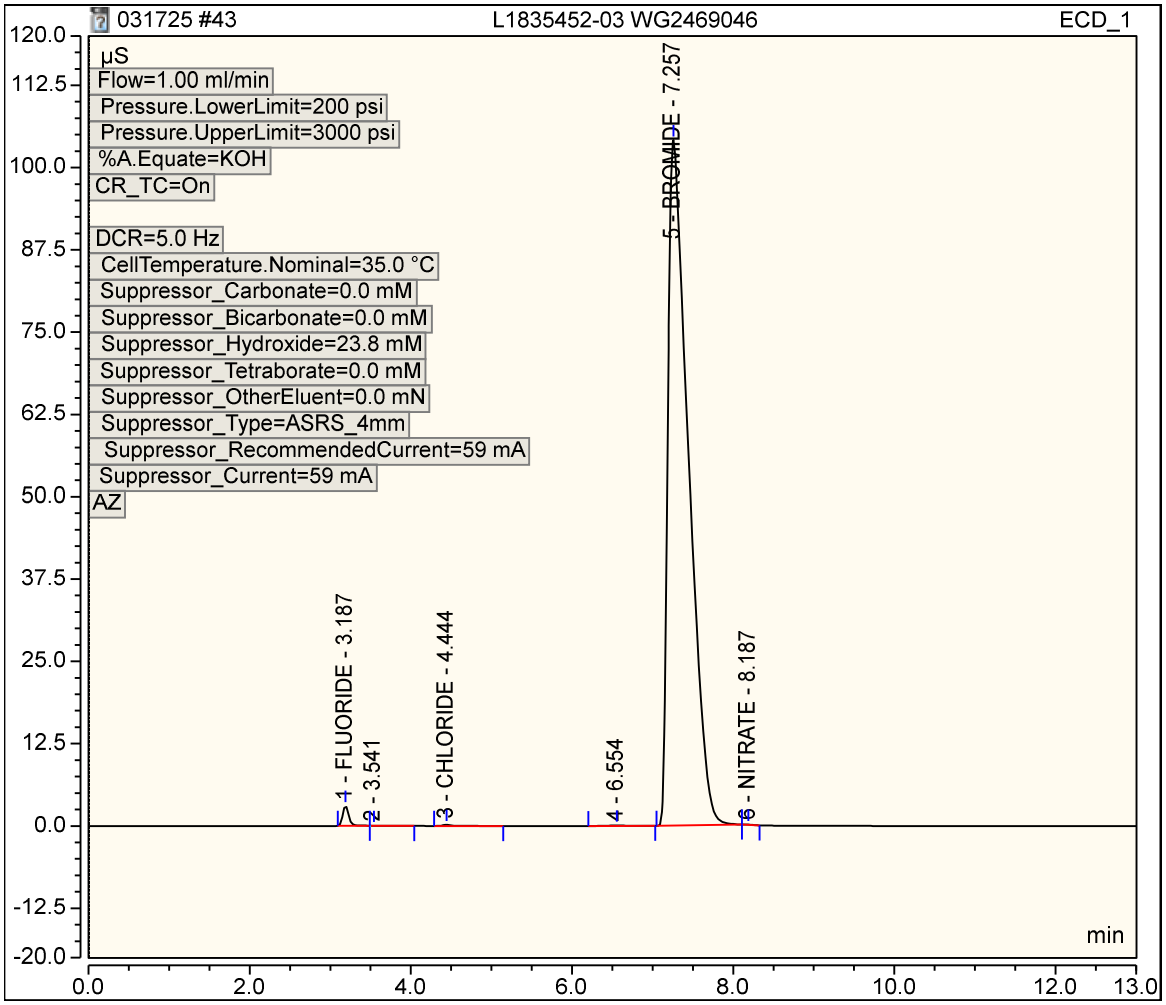
Sample Name:	**L1835452-03 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 20:20**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.275	3.061	1.4499
3	4.44	CHLORIDE	BMB	0.021	0.191	0.3427
5	7.26	SULFATE	BMB^	30.690	104.114	346.7236
6	8.19	NITRATE	BMB	0.003	0.030	0.0756
		TOTAL:		30.99	107.40	348.59



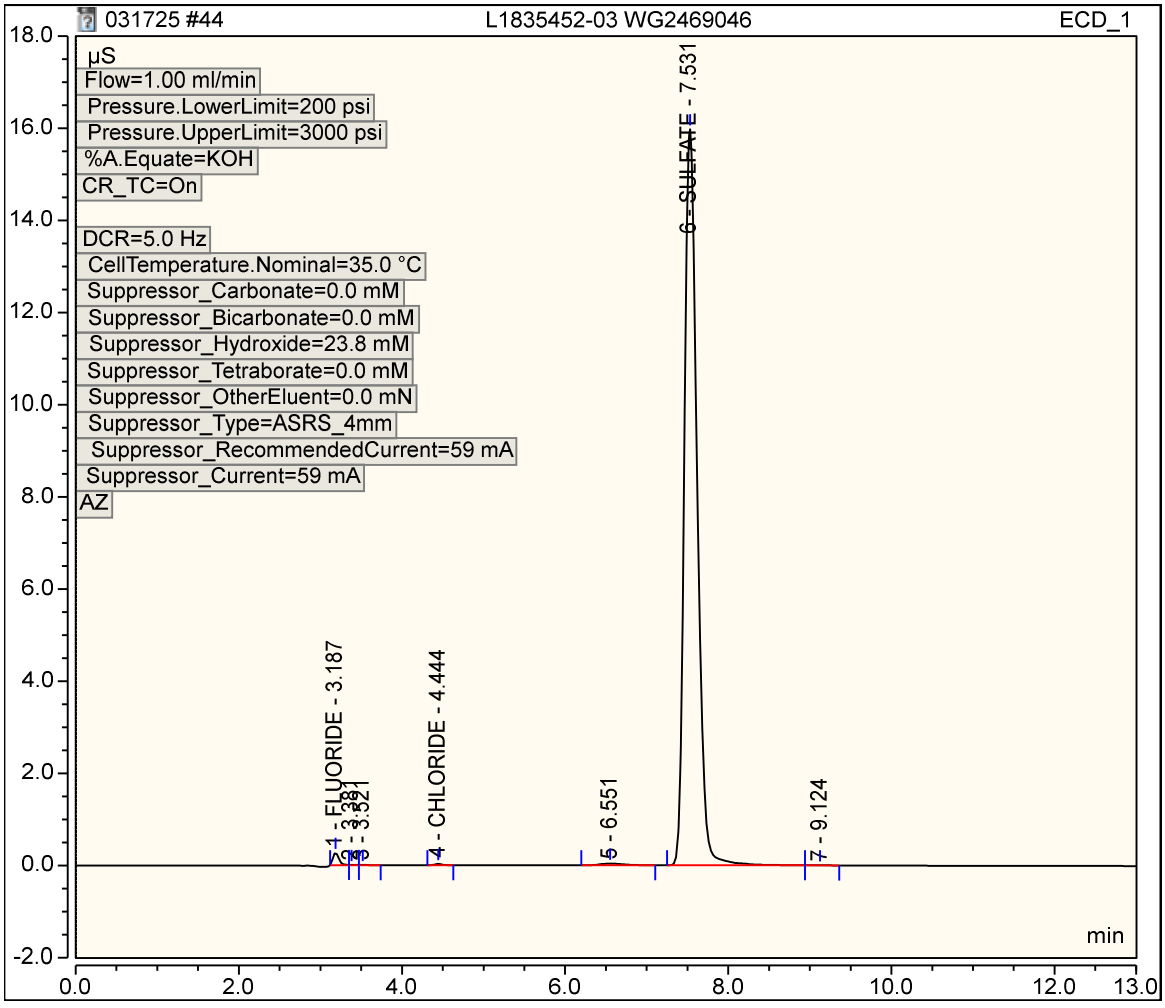
Sample Name:	**L1835452-03 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 20:20**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.275	3.061	1.4499
3	4.44	CHLORIDE	BMB	0.021	0.191	0.3427
5	7.26	BROMIDE	BMB	30.690	104.114	588.9642
6	8.19	NITRATE	BMB	0.003	0.030	0.0756
		TOTAL:		30.99	107.40	590.83



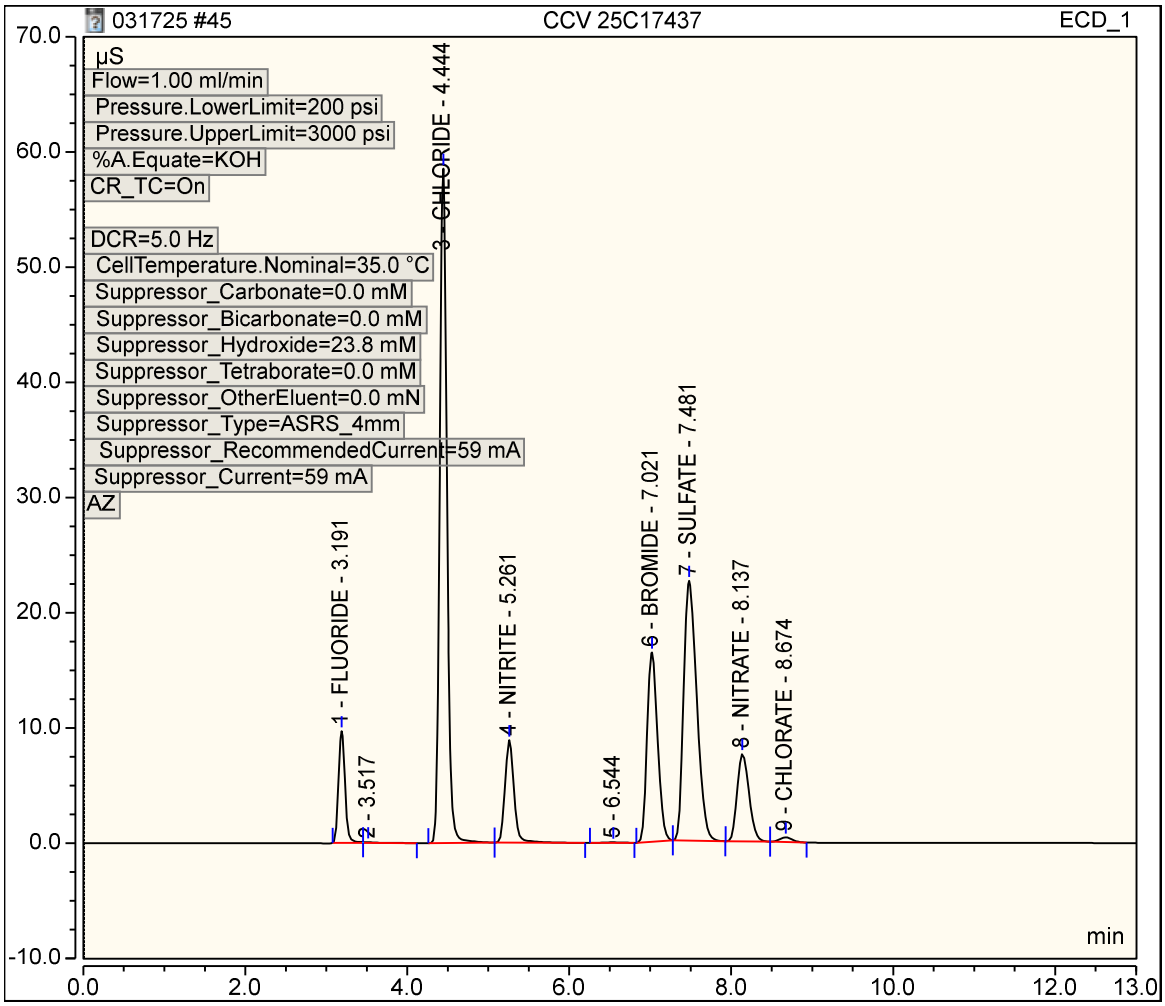
Sample Name:	**L1835452-03 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 20:36**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.023	0.270	1.4983
4	4.44	CHLORIDE	BMB	0.003	0.029	2.0079
6	7.53	SULFATE	BMB	2.887	15.970	327.9605
		TOTAL:		2.91	16.27	331.47



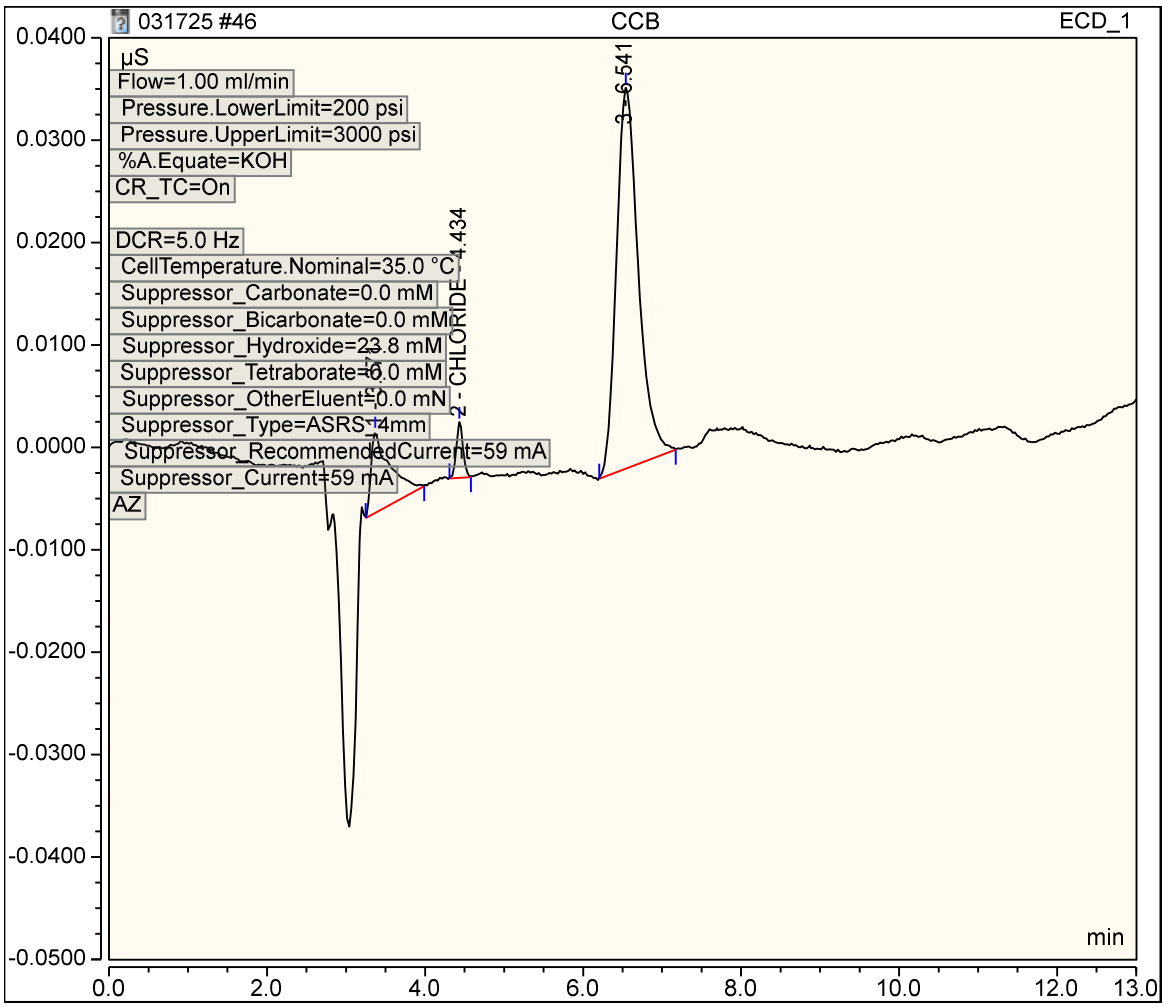
Sample Name:	**CCV 25C17437**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 20:52**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.904	9.709	4.6966
3	4.44	CHLORIDE	BMB	6.045	58.517	48.1724
4	5.26	NITRITE	BMB	1.150	8.885	4.7698
6	7.02	BROMIDE	BMB	2.459	16.441	47.6717
7	7.48	SULFATE	BMB	4.234	22.566	48.0094
8	8.14	NITRATE	BMB	1.298	7.595	4.6287
9	8.67	CHLORATE	BMB	0.071	0.404	2.3090
		TOTAL:		16.16	124.12	160.26



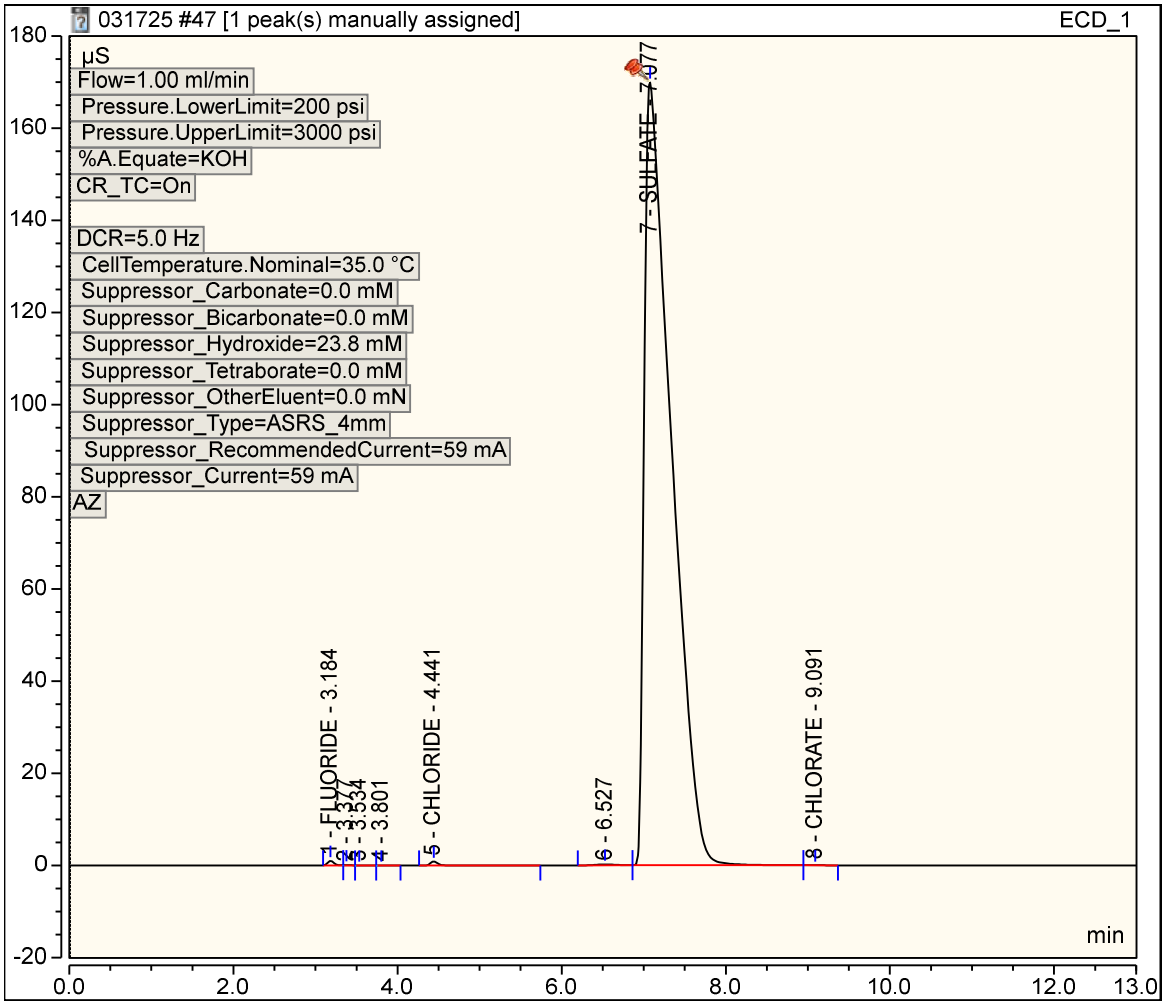
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 21:08**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
2	4.43	CHLORIDE	BMB	0.001	0.005	0.1815
		TOTAL:		0.00	0.01	0.18



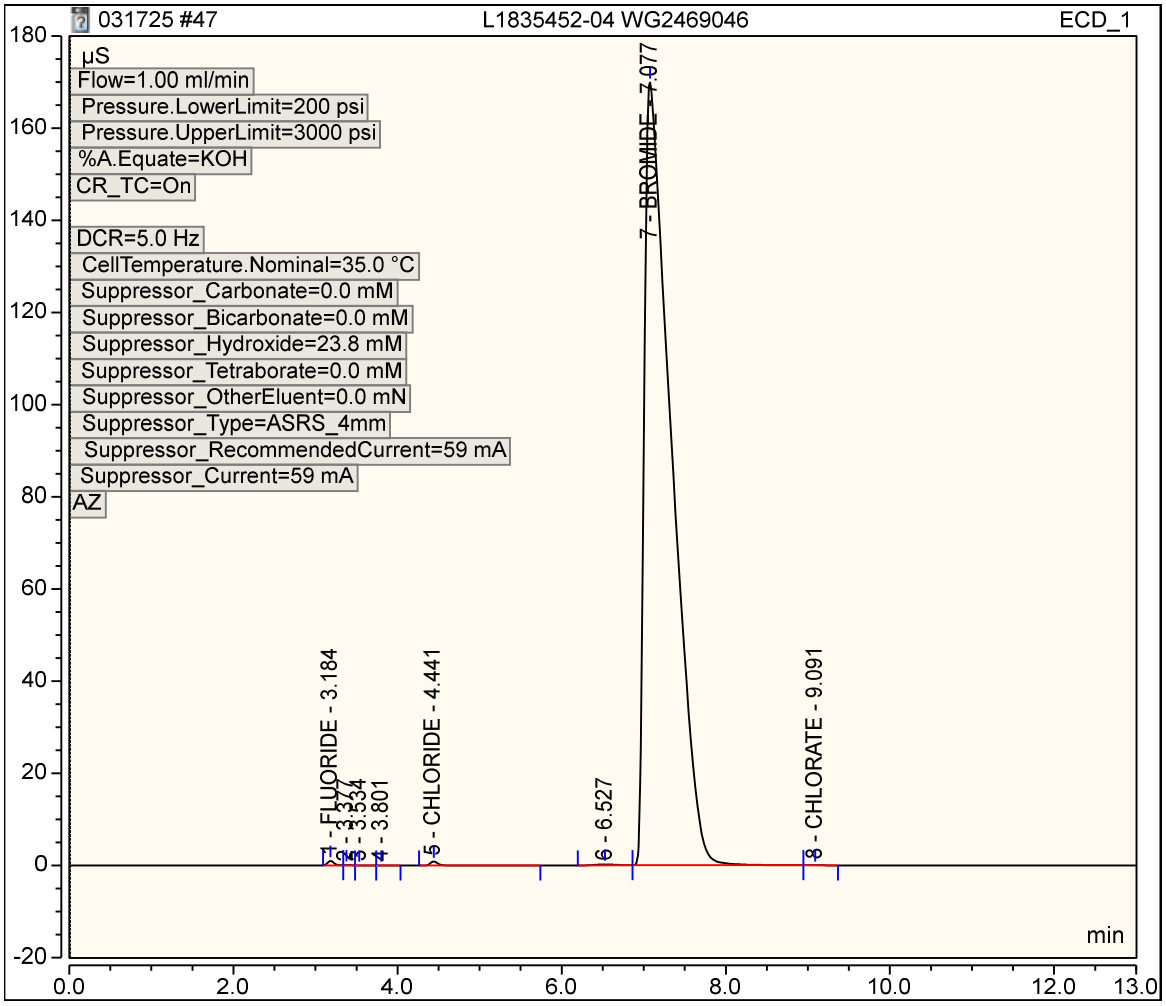
Sample Name:	**L1835452-04 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/17/25 21:24**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.091	1.018	0.5029
5	4.44	CHLORIDE	BMB	0.092	0.874	0.9110
7	7.08	SULFATE	BMB^	64.754	169.895	731.3303
8	9.09	CHLORATE	BMB	0.002	0.009	0.0872
		TOTAL:		64.94	171.79	732.83



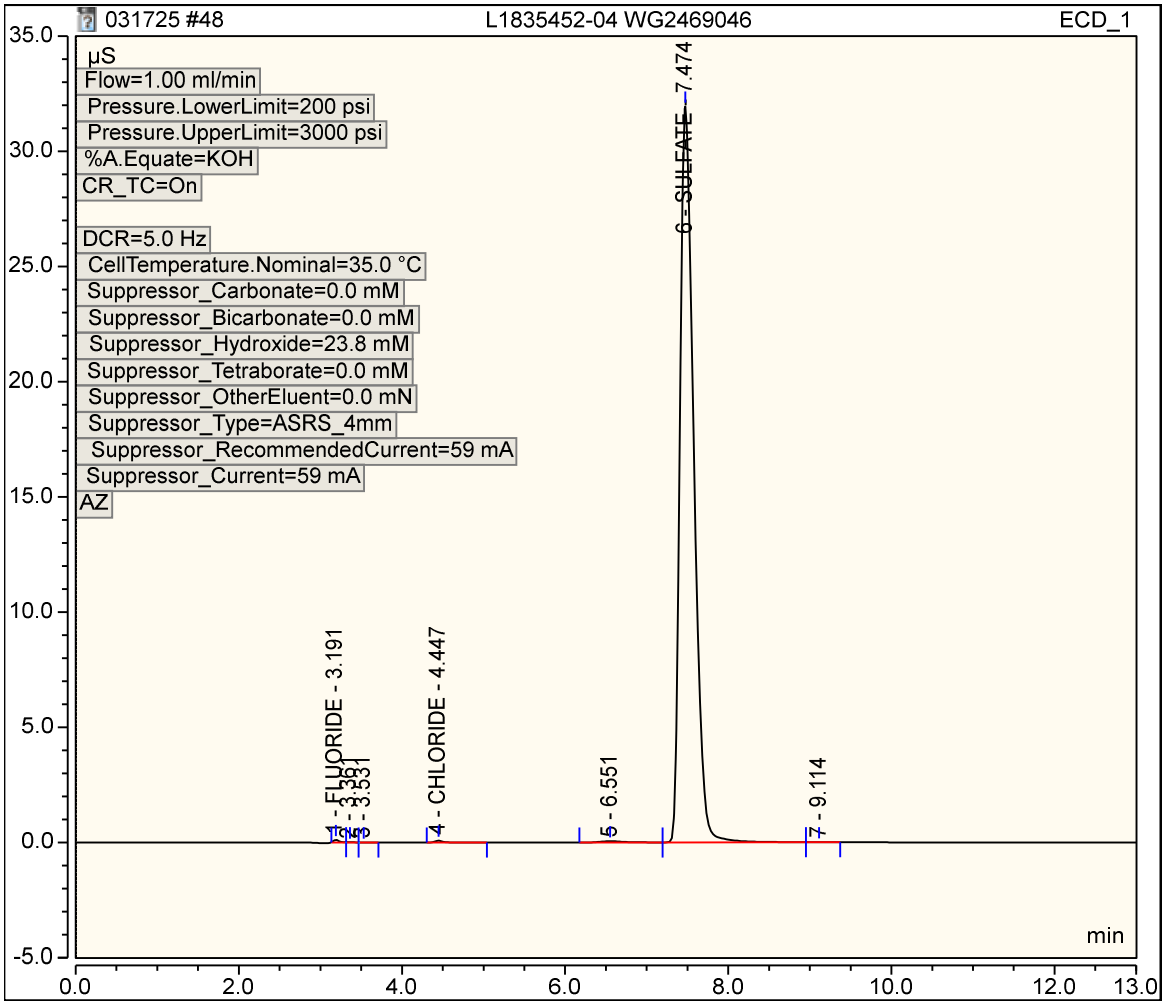
Sample Name:	**L1835452-04 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 21:24**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.091	1.018	0.5029
5	4.44	CHLORIDE	BMB	0.092	0.874	0.9110
7	7.08	BROMIDE	BMB	64.754	169.895	1242.0705
8	9.09	CHLORATE	BMB	0.002	0.009	0.0872
		TOTAL:		64.94	171.79	1243.57



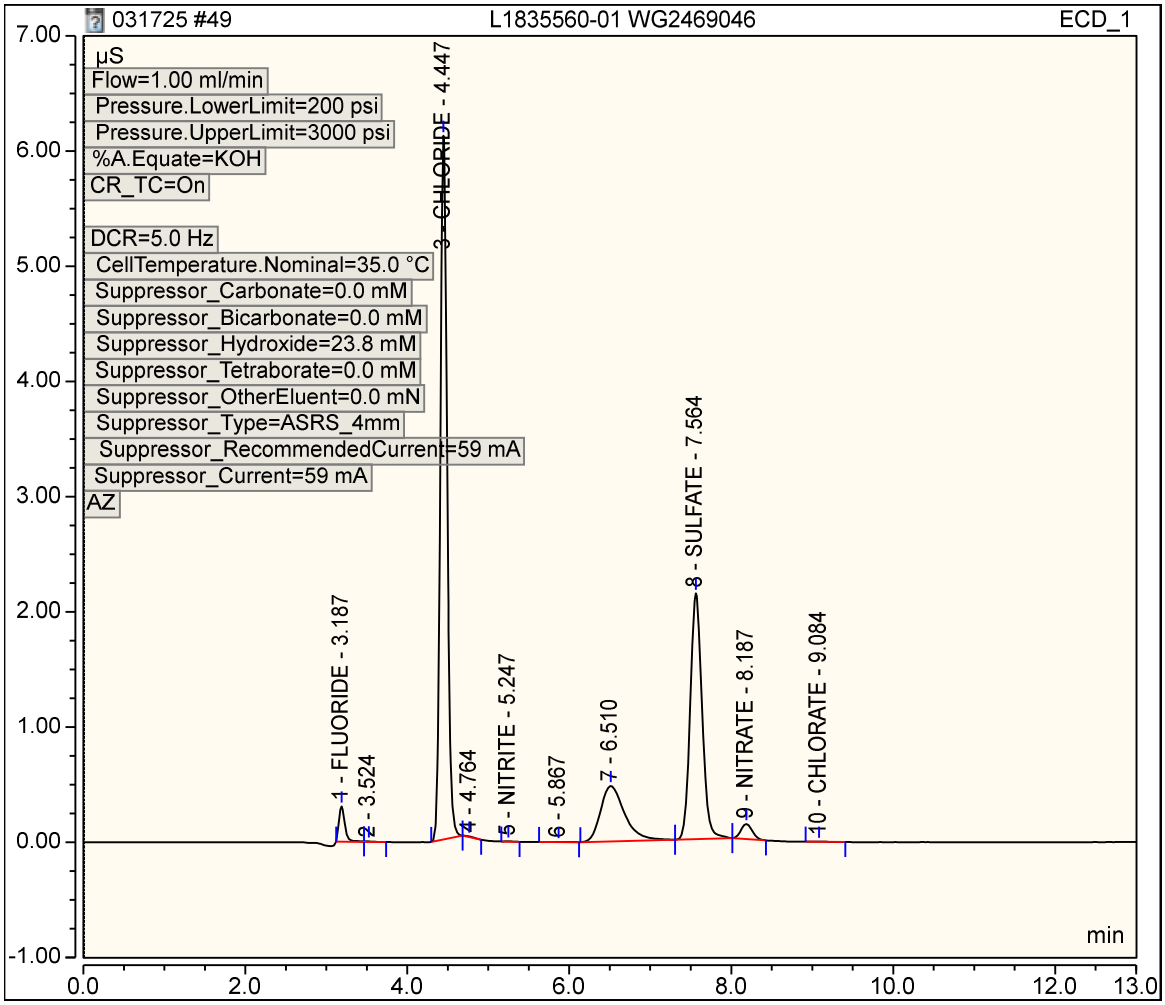
Sample Name:	**L1835452-04 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 21:40**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.008	0.109	0.7673
4	4.45	CHLORIDE	BMB	0.009	0.079	2.4610
6	7.47	SULFATE	BMB	6.282	31.939	711.3686
		TOTAL:		6.30	32.13	714.60



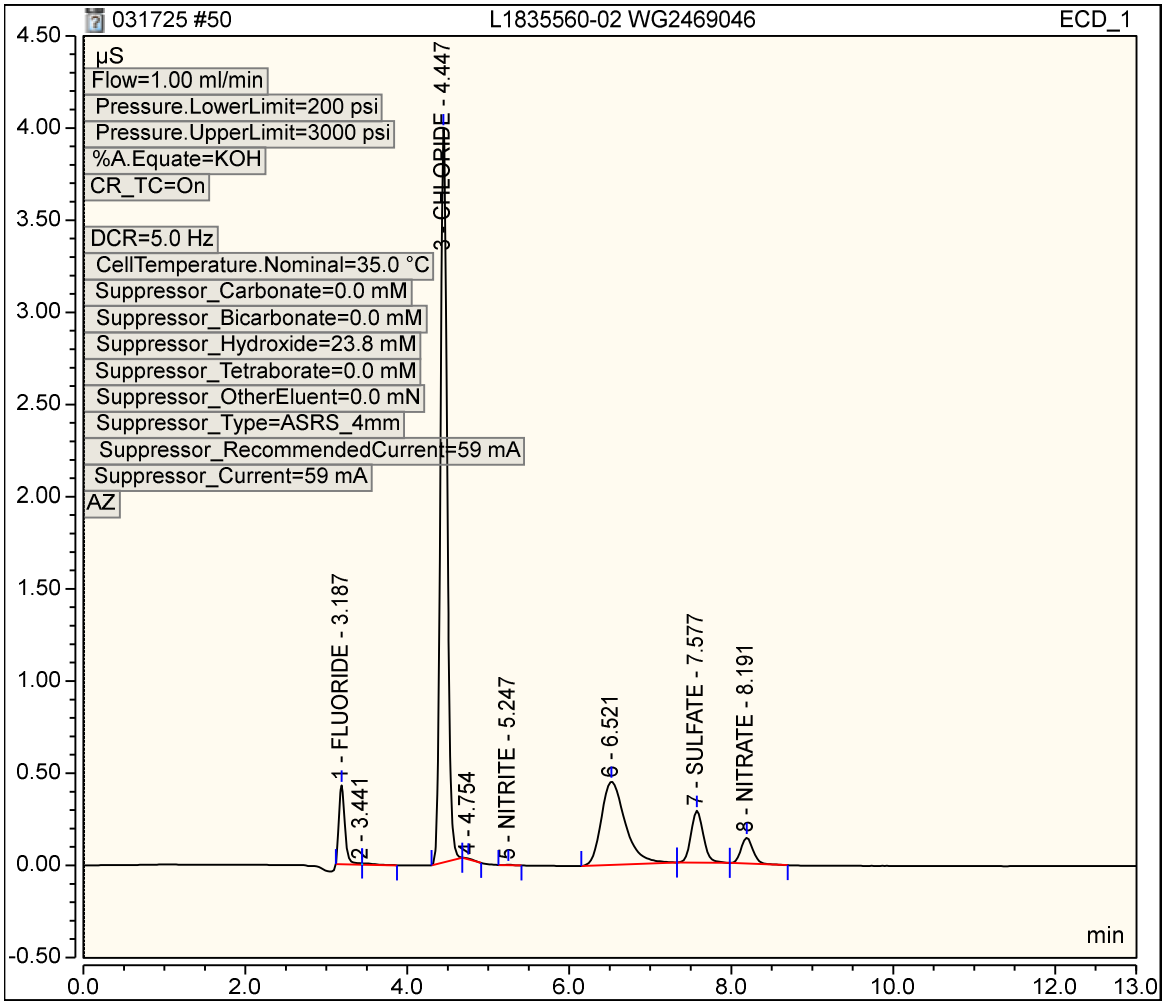
Sample Name:	**L1835560-01 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 21:56**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.026	0.306	0.1672
3	4.45	CHLORIDE	BMB	0.593	6.108	4.8863
5	5.25	NITRITE	BMB	0.000	0.003	0.0455
8	7.56	SULFATE	BMB	0.360	2.132	4.2666
9	8.19	NITRATE	BMB	0.021	0.132	0.1393
10	9.08	CHLORATE	BMB	0.000	0.002	0.0399
		TOTAL:		1.00	8.68	9.54



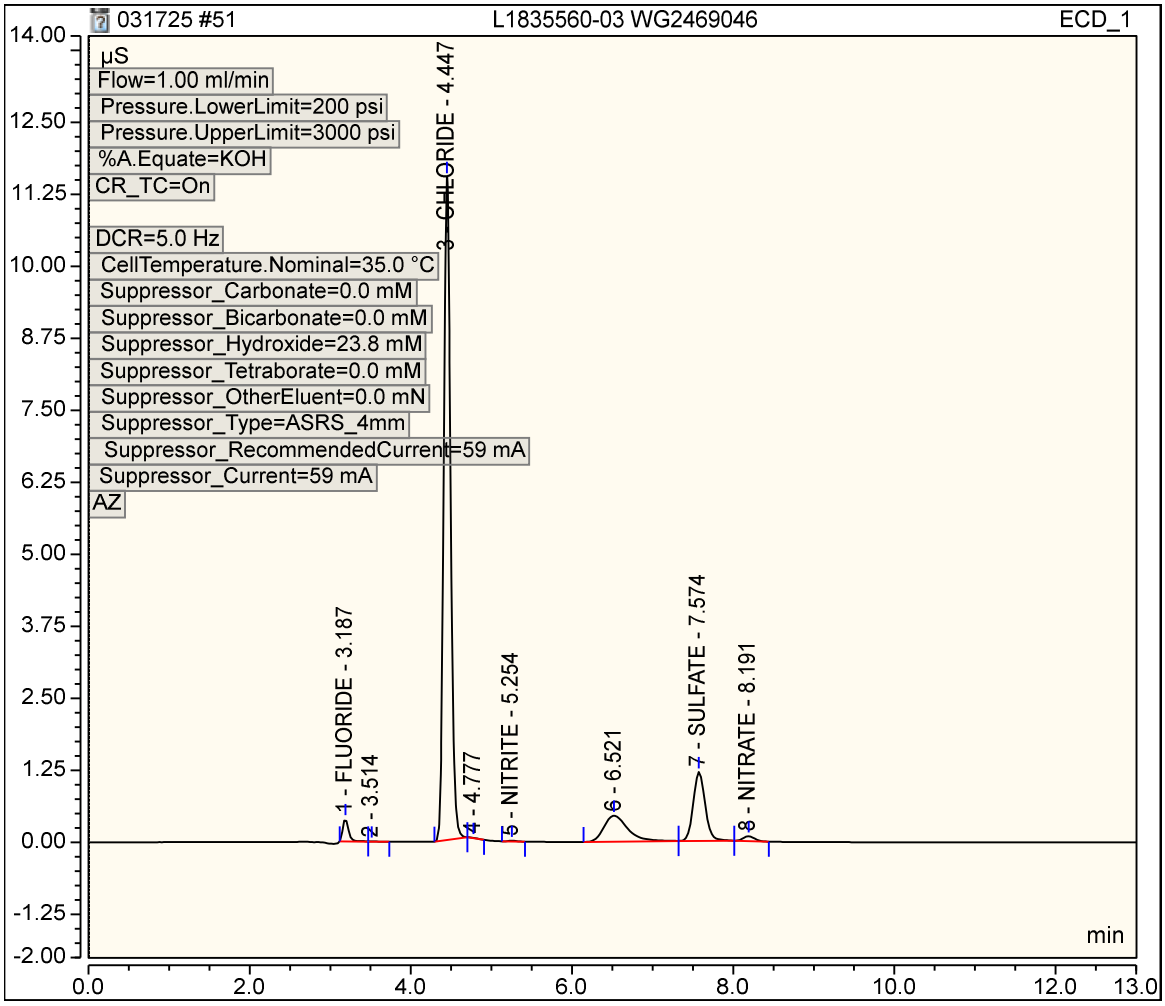
Sample Name:	**L1835560-02 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 22:11**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.036	0.427	0.2208
3	4.45	CHLORIDE	BMB	0.385	3.978	3.2325
5	5.25	NITRITE	BMB	0.000	0.003	0.0456
7	7.58	SULFATE	BMB	0.050	0.281	0.7628
8	8.19	NITRATE	BMB	0.024	0.140	0.1491
TOTAL:				0.50	4.83	4.41



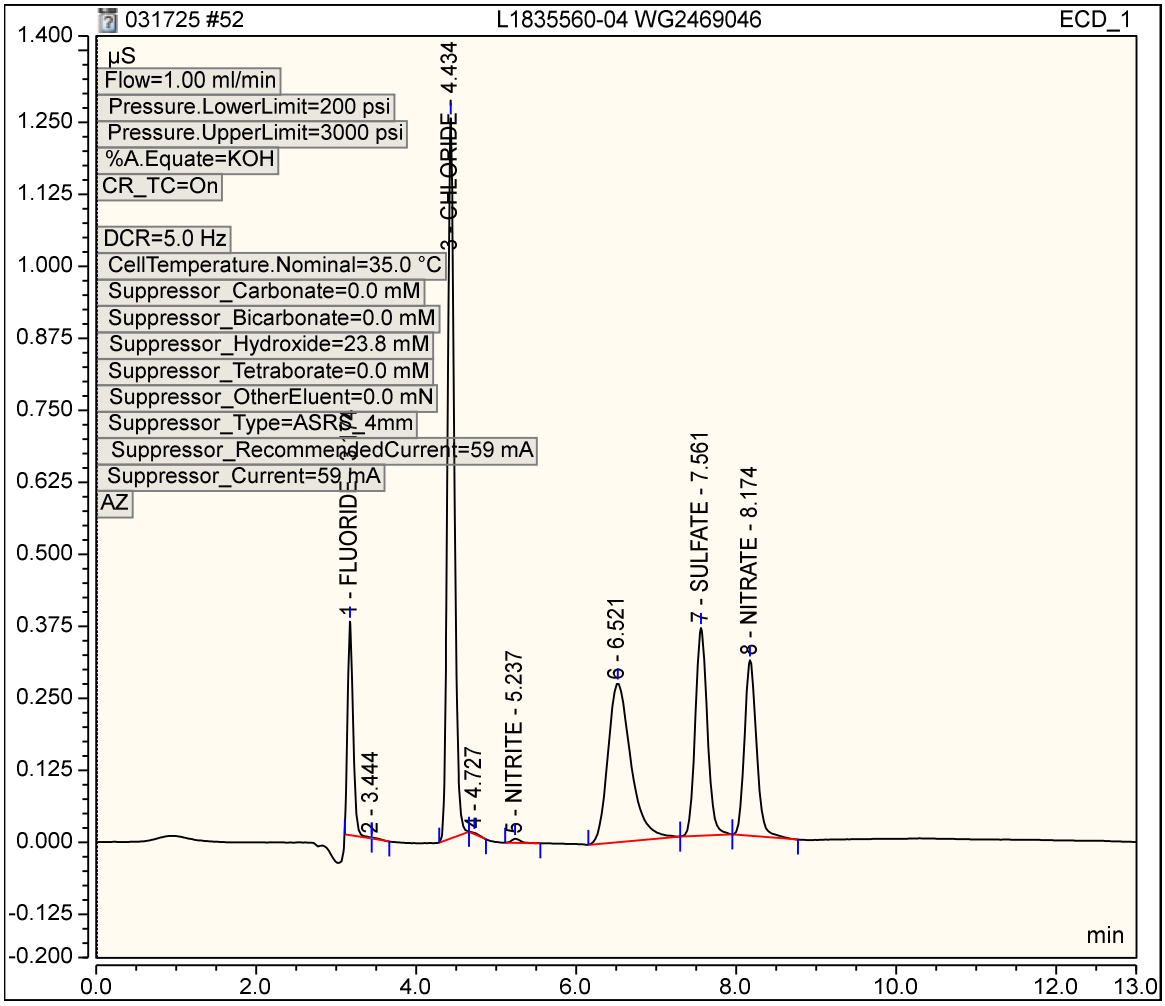
Sample Name:	**L1835560-03 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 22:32**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.033	0.392	0.2056
3	4.45	CHLORIDE	BMB	1.134	11.511	9.1811
5	5.25	NITRITE	BMB	0.001	0.012	0.0496
7	7.57	SULFATE	BMB	0.204	1.194	2.5058
8	8.19	NITRATE	BMB	0.014	0.084	0.1122
		TOTAL:		1.39	13.19	12.05



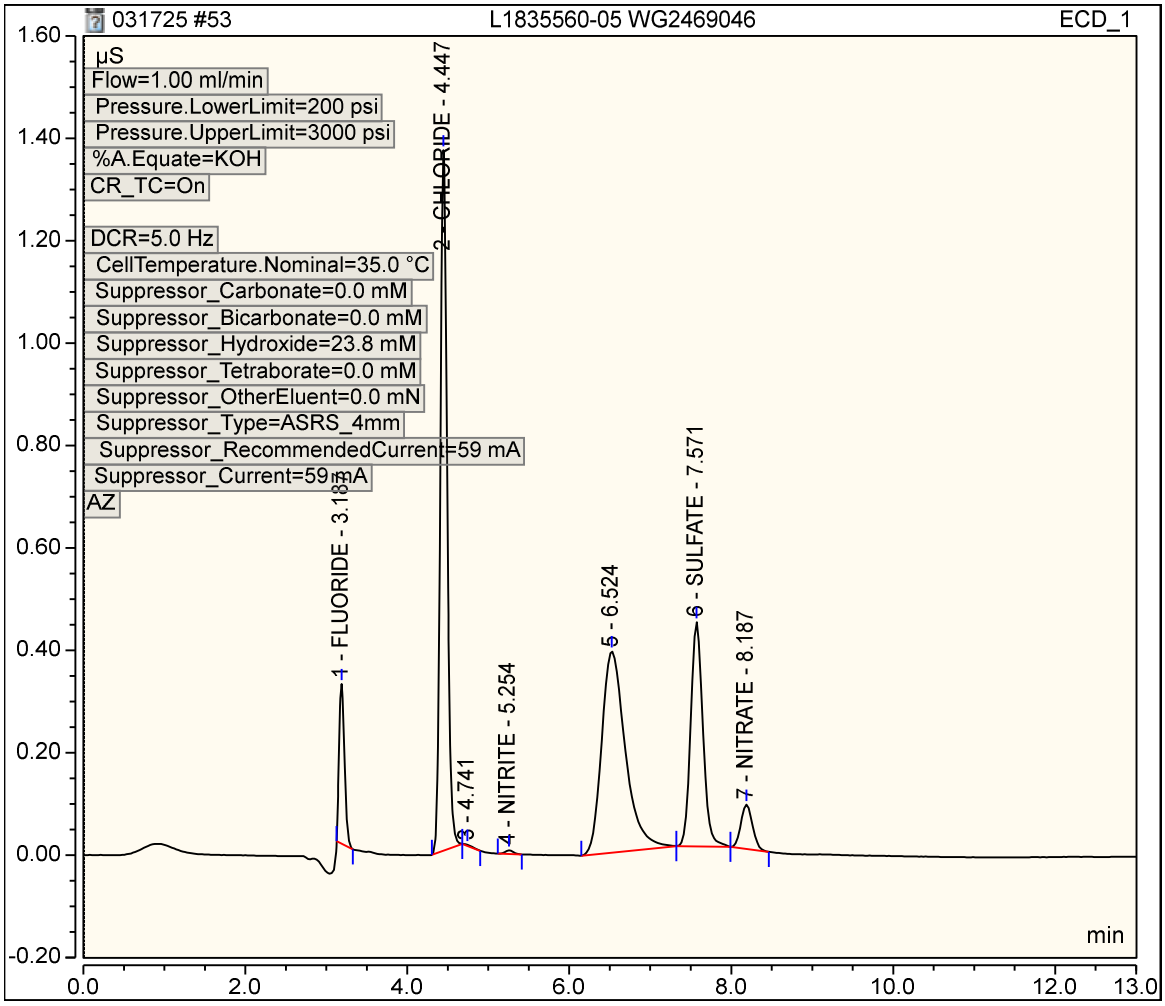
Sample Name:	**L1835560-04 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 22:47**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.17	FLUORIDE	BM	0.030	0.371	0.1882
3	4.43	CHLORIDE	BMB	0.122	1.250	1.1498
5	5.24	NITRITE	BMB	0.001	0.007	0.0480
7	7.56	SULFATE	BMB	0.063	0.361	0.9152
8	8.17	NITRATE	BMB	0.053	0.305	0.2517
TOTAL:				0.27	2.29	2.55



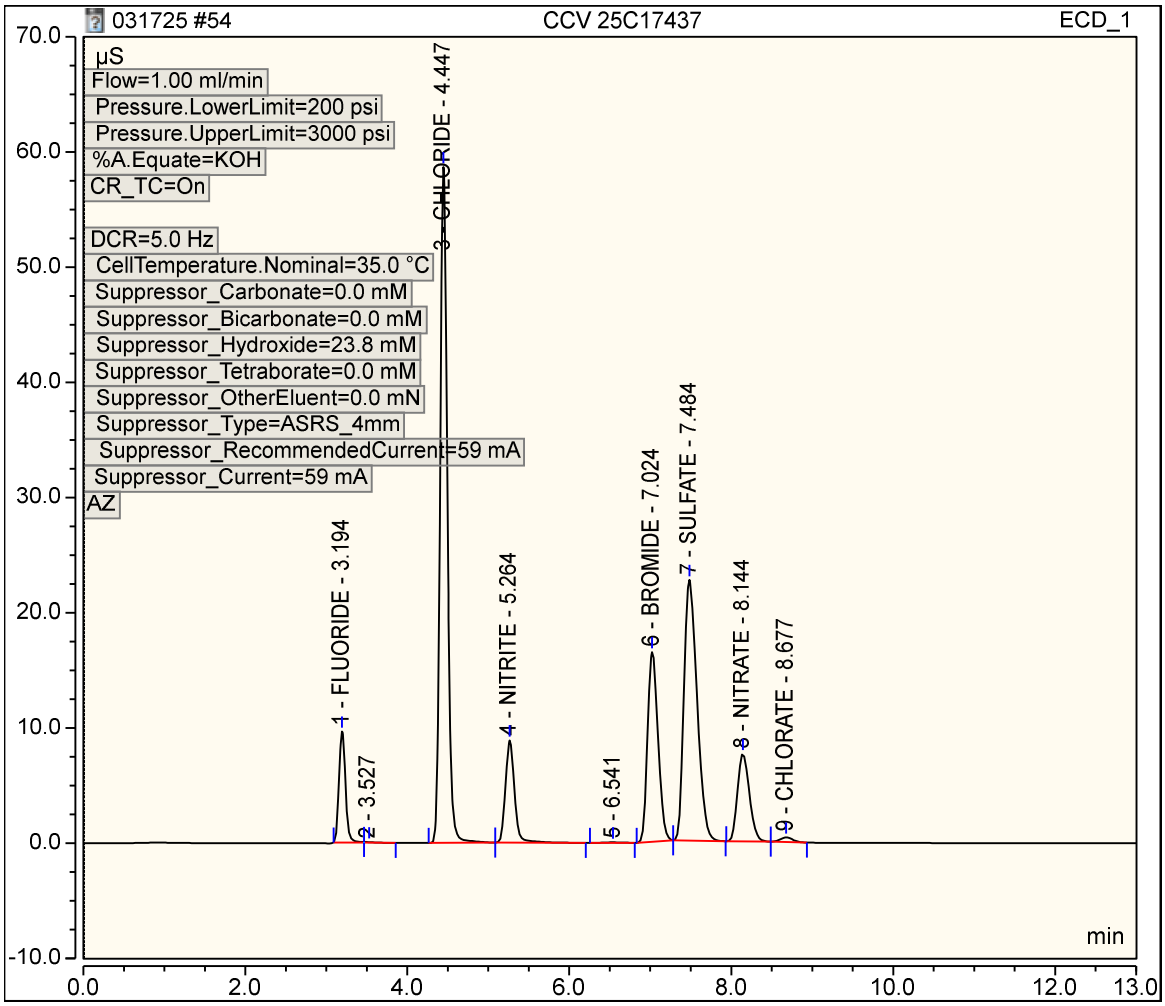
Sample Name:	**L1835560-05 WG2469046**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 23:03**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.024	0.312	0.1563
2	4.45	CHLORIDE	BMB	0.133	1.368	1.2366
4	5.25	NITRITE	BMB	0.001	0.007	0.0477
6	7.57	SULFATE	BMB	0.077	0.438	1.0670
7	8.19	NITRATE	BMB	0.014	0.086	0.1144
TOTAL:				0.25	2.21	2.62



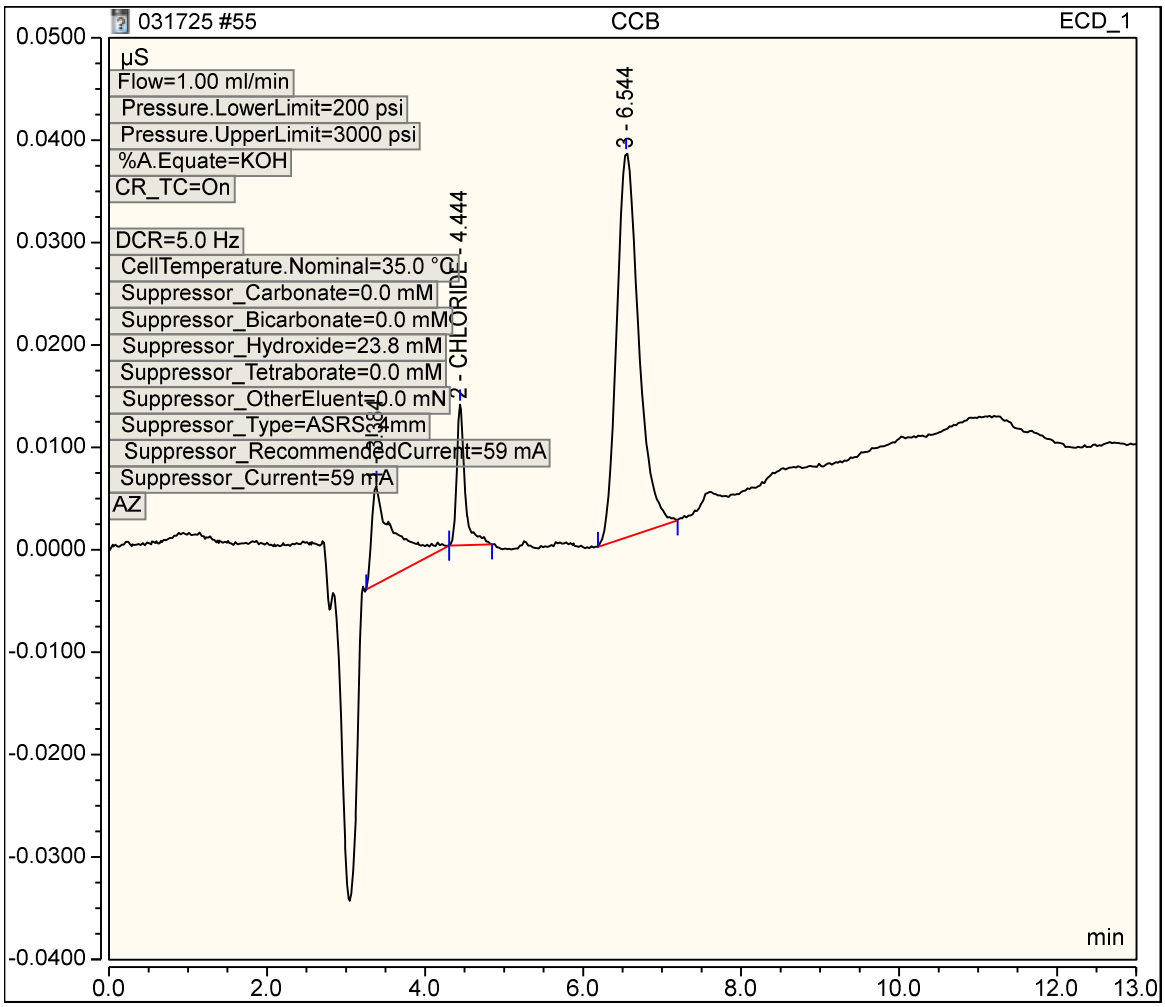
Sample Name:	**CCV 25C17437**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 23:19**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.891	9.636	4.6258
3	4.45	CHLORIDE	BMB	6.068	58.664	48.3604
4	5.26	NITRITE	BMB	1.148	8.875	4.7612
6	7.02	BROMIDE	BMB	2.463	16.461	47.7498
7	7.48	SULFATE	BMB	4.233	22.625	47.9979
8	8.14	NITRATE	BMB	1.298	7.607	4.6306
9	8.68	CHLORATE	BMB	0.071	0.403	2.3064
		TOTAL:		16.17	124.27	160.43



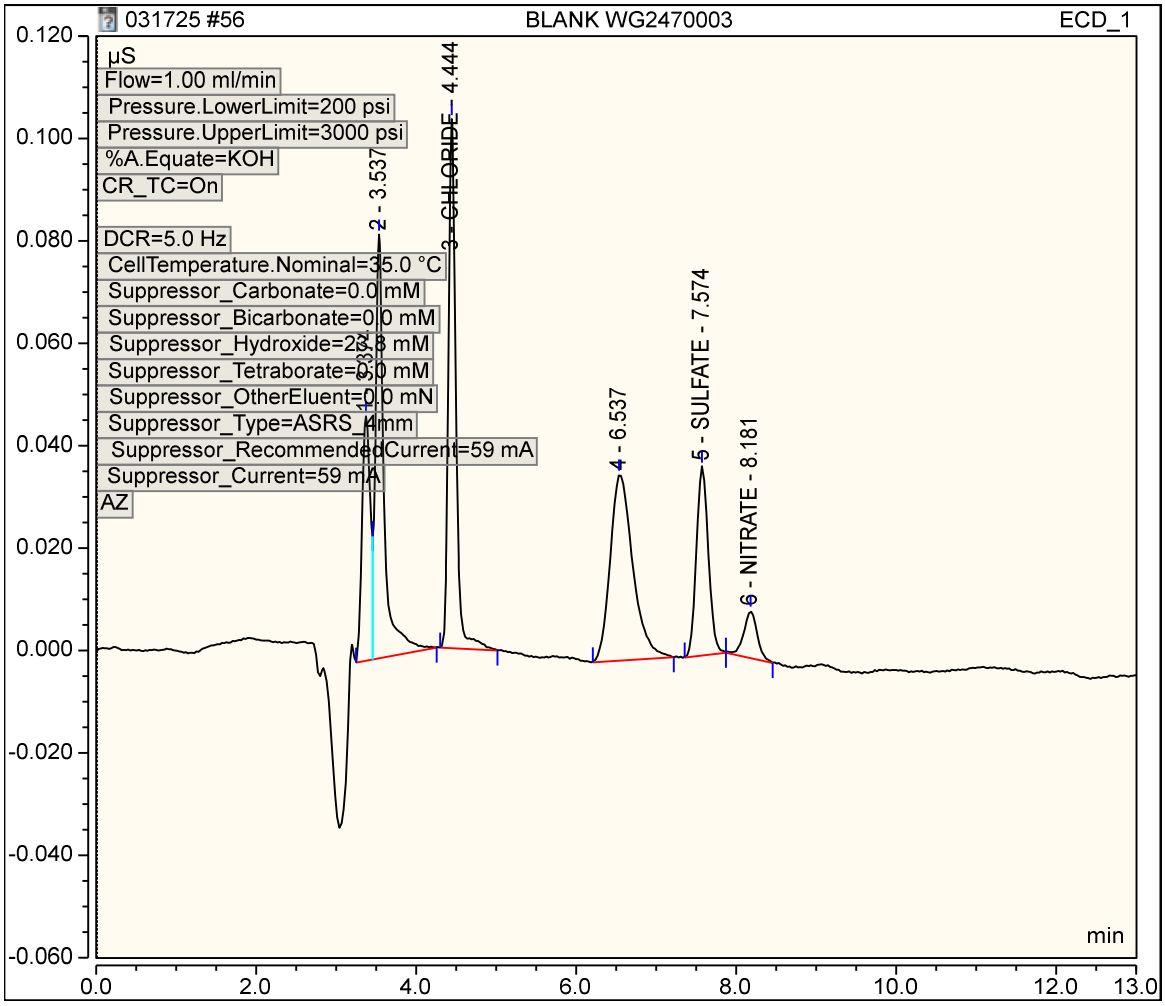
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 23:35**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
2	4.44	CHLORIDE	BMB	0.002	0.014	0.1905
		TOTAL:		0.00	0.01	0.19



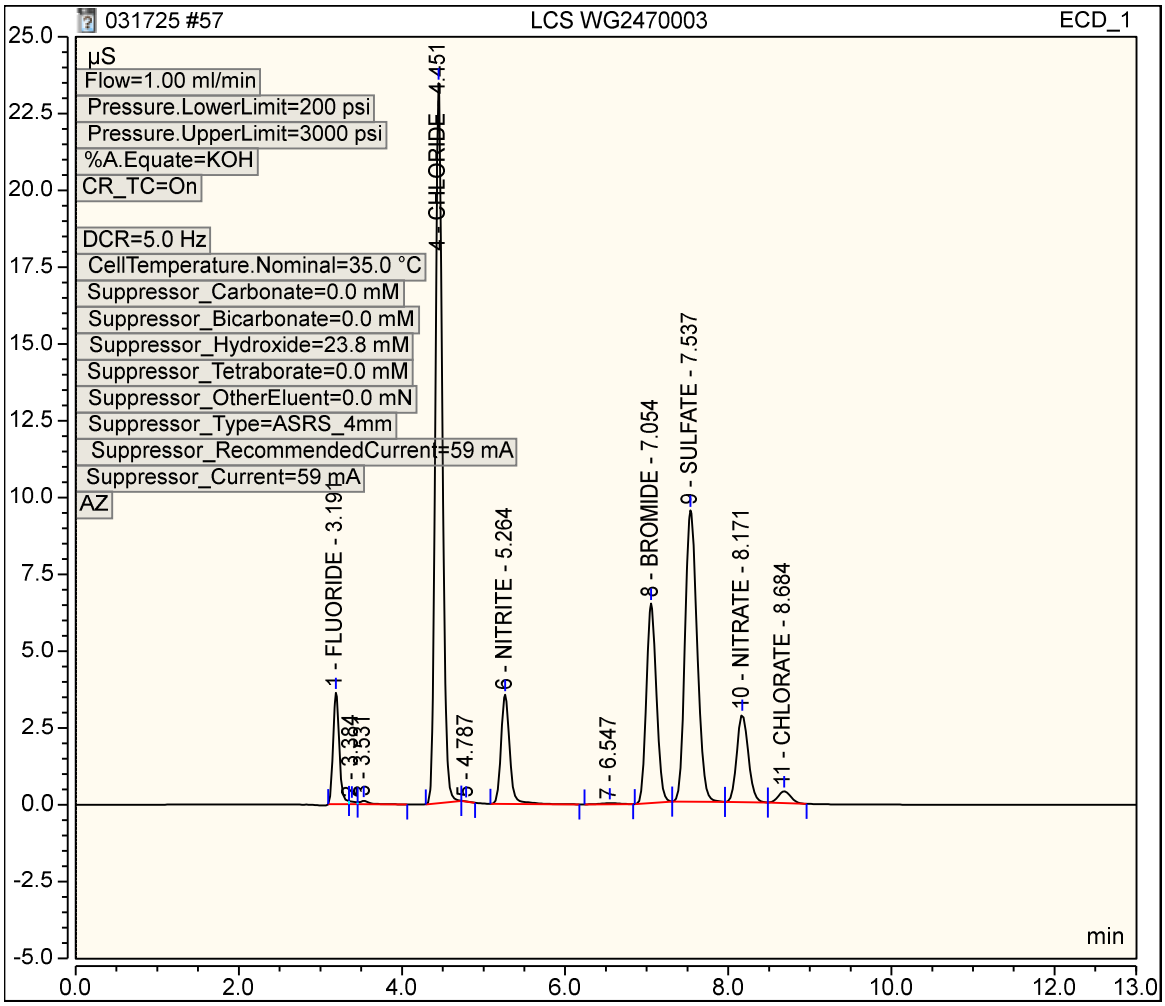
Sample Name:	**BLANK WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 23:50**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.44	CHLORIDE	BMB	0.011	0.103	0.2657
5	7.57	SULFATE	BMB	0.006	0.037	0.2748
6	8.18	NITRATE	BMB	0.002	0.009	0.0703
		TOTAL:		0.02	0.15	0.61



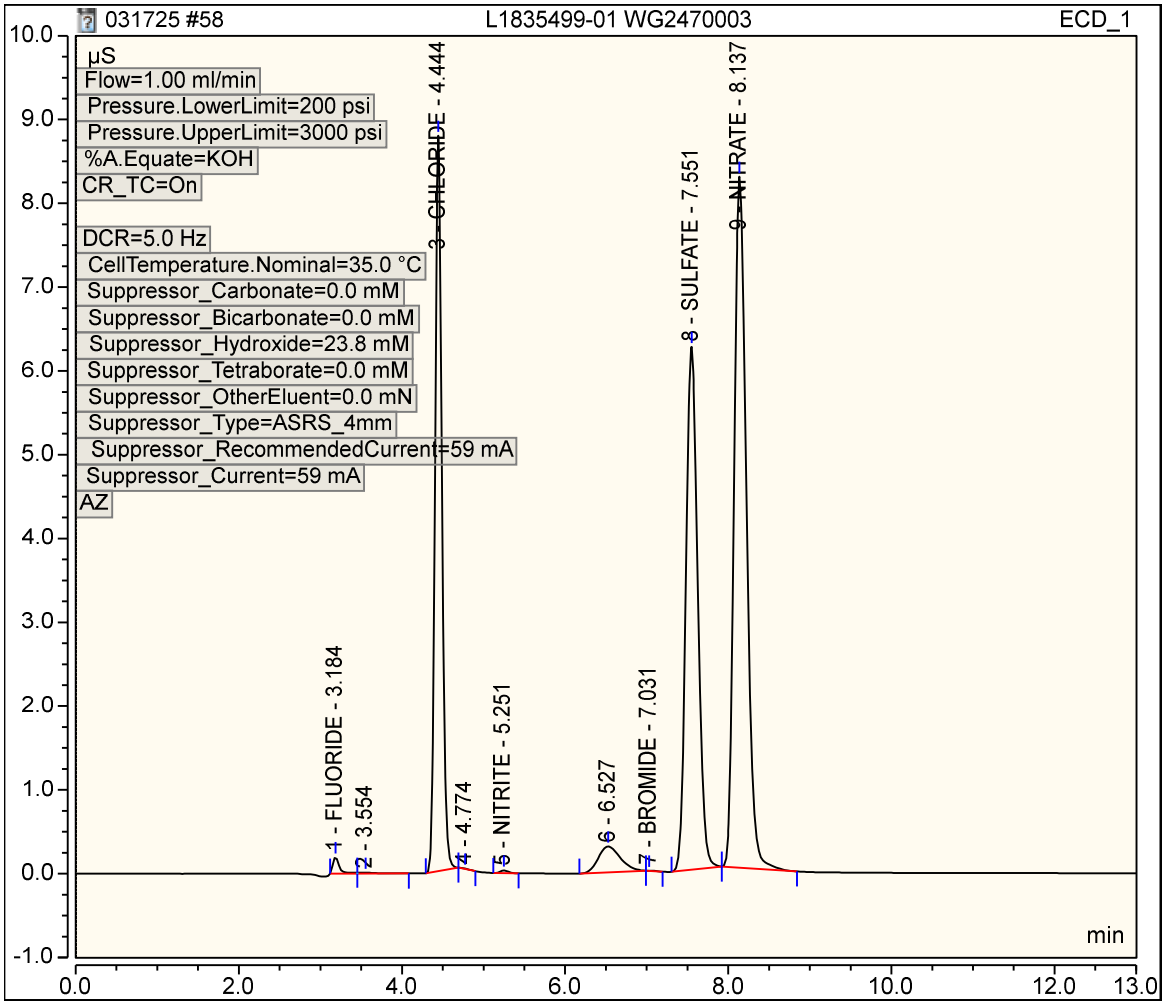
Sample Name:	**LCS WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 00:06**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.314	3.627	1.6546
4	4.45	CHLORIDE	BMB	2.349	23.426	18.8302
6	5.26	NITRITE	BMB	0.438	3.552	1.8429
8	7.05	BROMIDE	BMB	0.925	6.489	18.2733
9	7.54	SULFATE	BMB	1.631	9.475	18.6192
10	8.17	NITRATE	BMB	0.467	2.852	1.7078
11	8.68	CHLORATE	BMB	0.068	0.386	2.2370
		TOTAL:		6.19	49.81	63.17



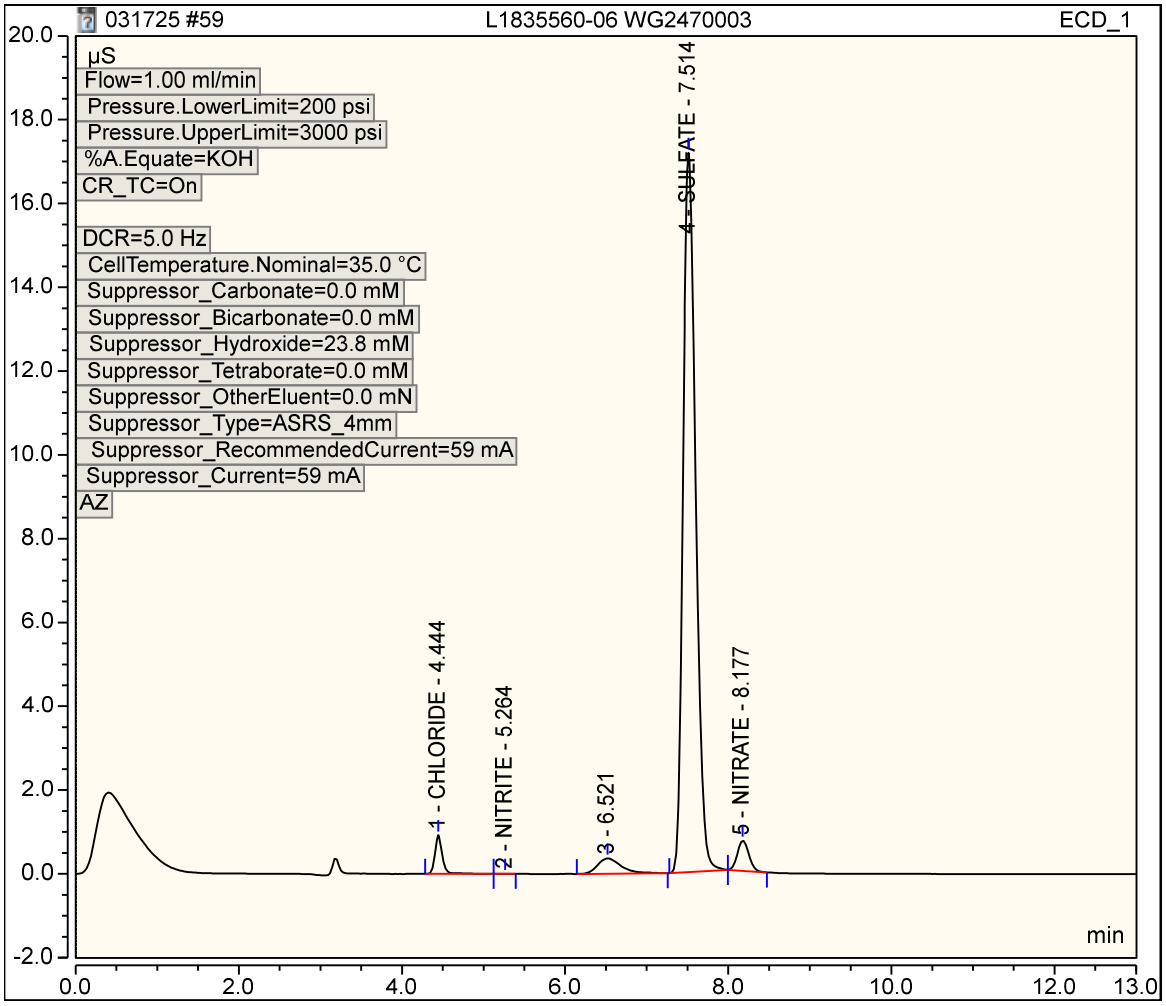
Sample Name:	**L1835499-01 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 00:22**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.018	0.196	0.1261
3	4.44	CHLORIDE	BMB	0.859	8.777	6.9973
5	5.25	NITRITE	BMB	0.004	0.031	0.0588
7	7.03	BROMIDE	BMB	0.000	0.003	0.5387
8	7.55	SULFATE	BMB	1.047	6.239	12.0219
9	8.14	NITRATE	BMB	1.439	8.245	5.1267
		TOTAL:		3.37	23.49	24.87



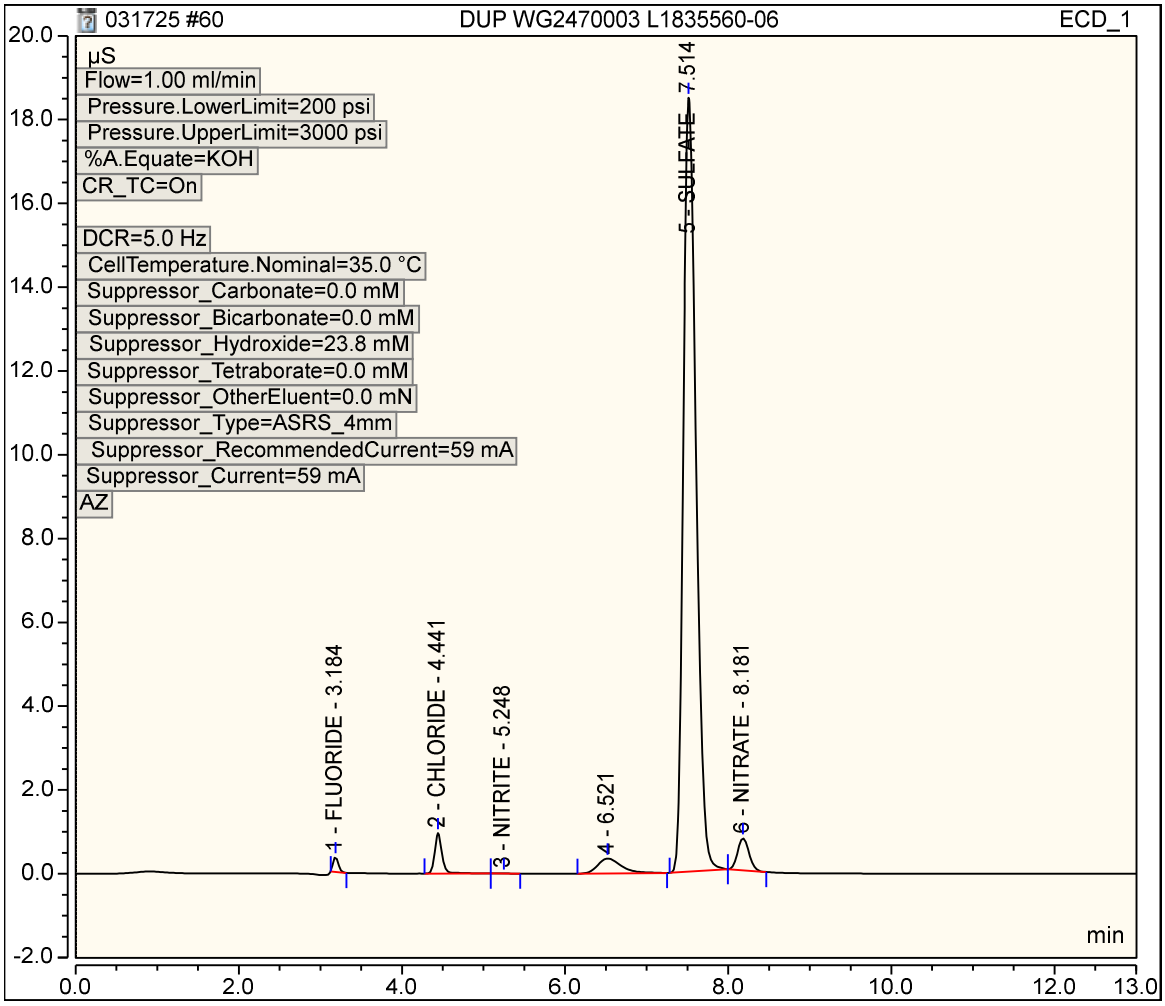
Sample Name:	**L1835560-06 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 00:38**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	4.44	CHLORIDE	BMB	0.096	0.924	0.9416
2	5.26	NITRITE	BMB	0.001	0.005	0.0464
4	7.51	SULFATE	BMB	3.064	17.165	34.7997
5	8.18	NITRATE	BMB	0.117	0.724	0.4763
		TOTAL:		3.28	18.82	36.26



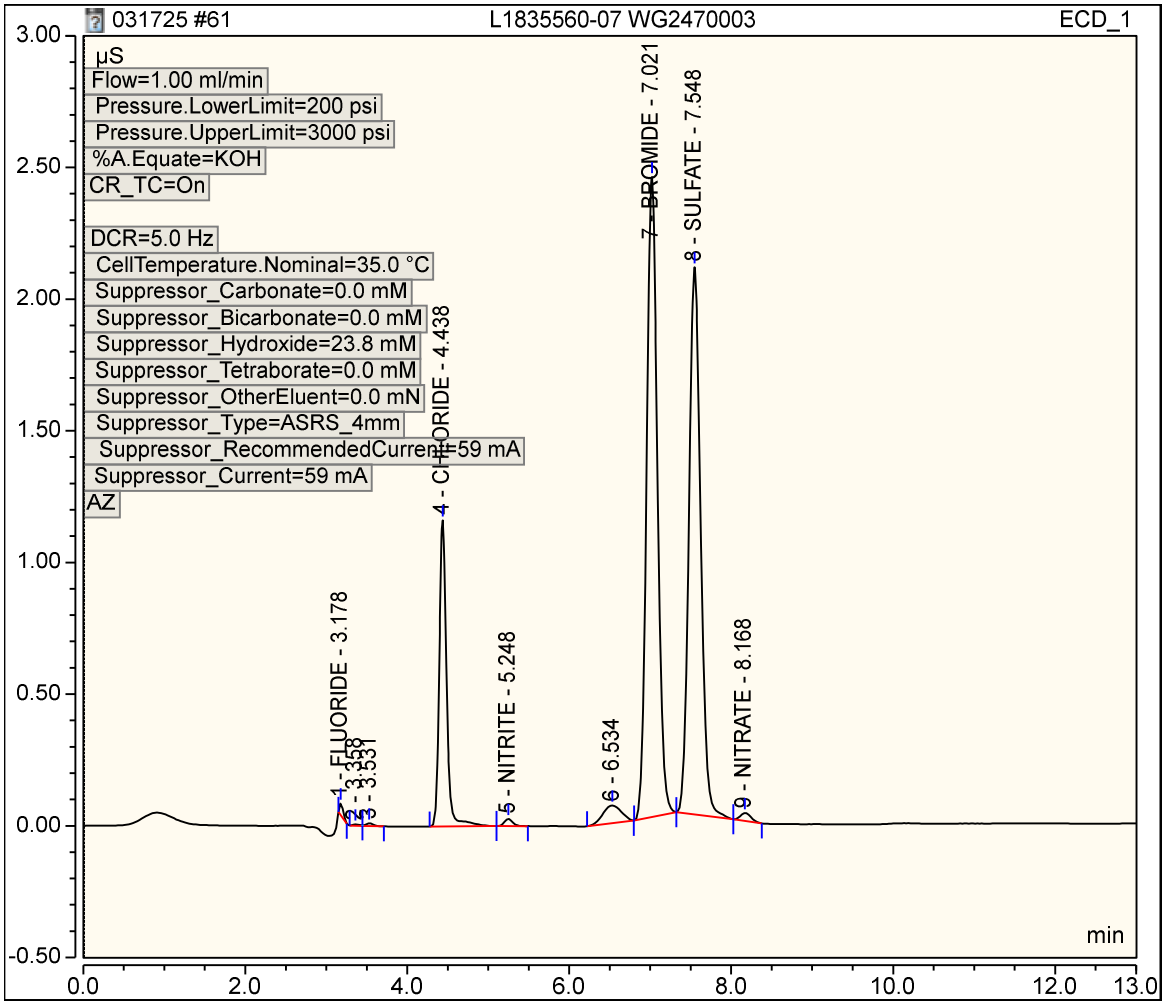
Sample Name:	**DUP WG2470003 L1835560-06**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 00:54**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.026	0.352	0.1682
2	4.44	CHLORIDE	BMB	0.101	0.969	0.9756
3	5.25	NITRITE	BMB	0.000	0.004	0.0462
5	7.51	SULFATE	BMB	3.332	18.473	37.8280
6	8.18	NITRATE	BMB	0.124	0.766	0.5005
TOTAL:				3.58	20.56	39.52



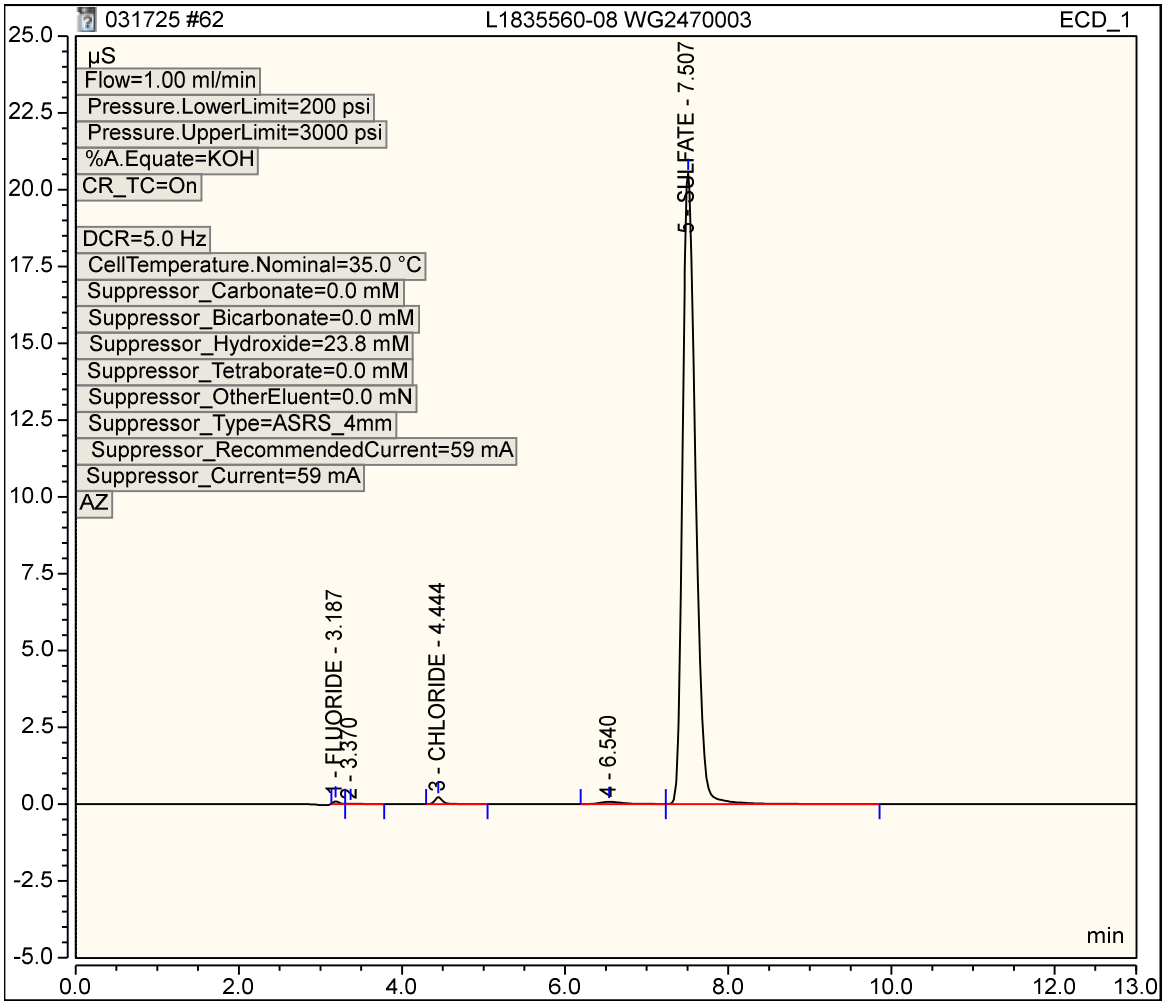
Sample Name:	**L1835560-07 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 01:10**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.002	0.044	0.4544
4	4.44	CHLORIDE	BMB	0.120	1.163	11.3383
5	5.25	NITRITE	BMB	0.003	0.028	0.5761
7	7.02	BROMIDE	BMB	0.375	2.431	77.1681
8	7.55	SULFATE	BMB	0.347	2.078	41.2280
9	8.17	NITRATE	BMB	0.005	0.030	0.8011
		TOTAL:		0.85	5.77	131.57



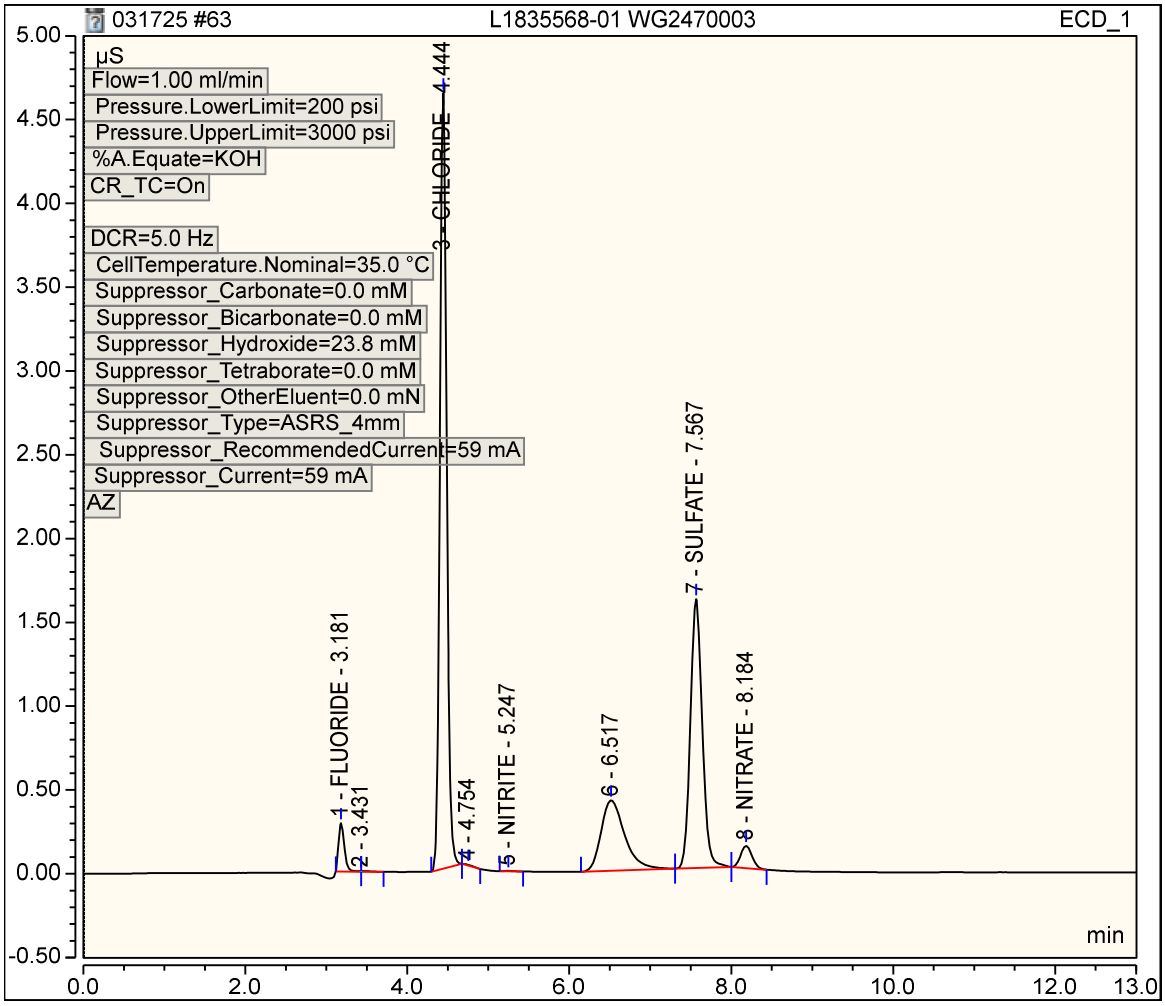
Sample Name:	**L1835560-08 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 01:26**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.007	0.089	0.0678
3	4.44	CHLORIDE	BMB	0.025	0.234	0.3763
5	7.51	SULFATE	BMB	3.782	20.516	42.9043
TOTAL:				3.81	20.84	43.35



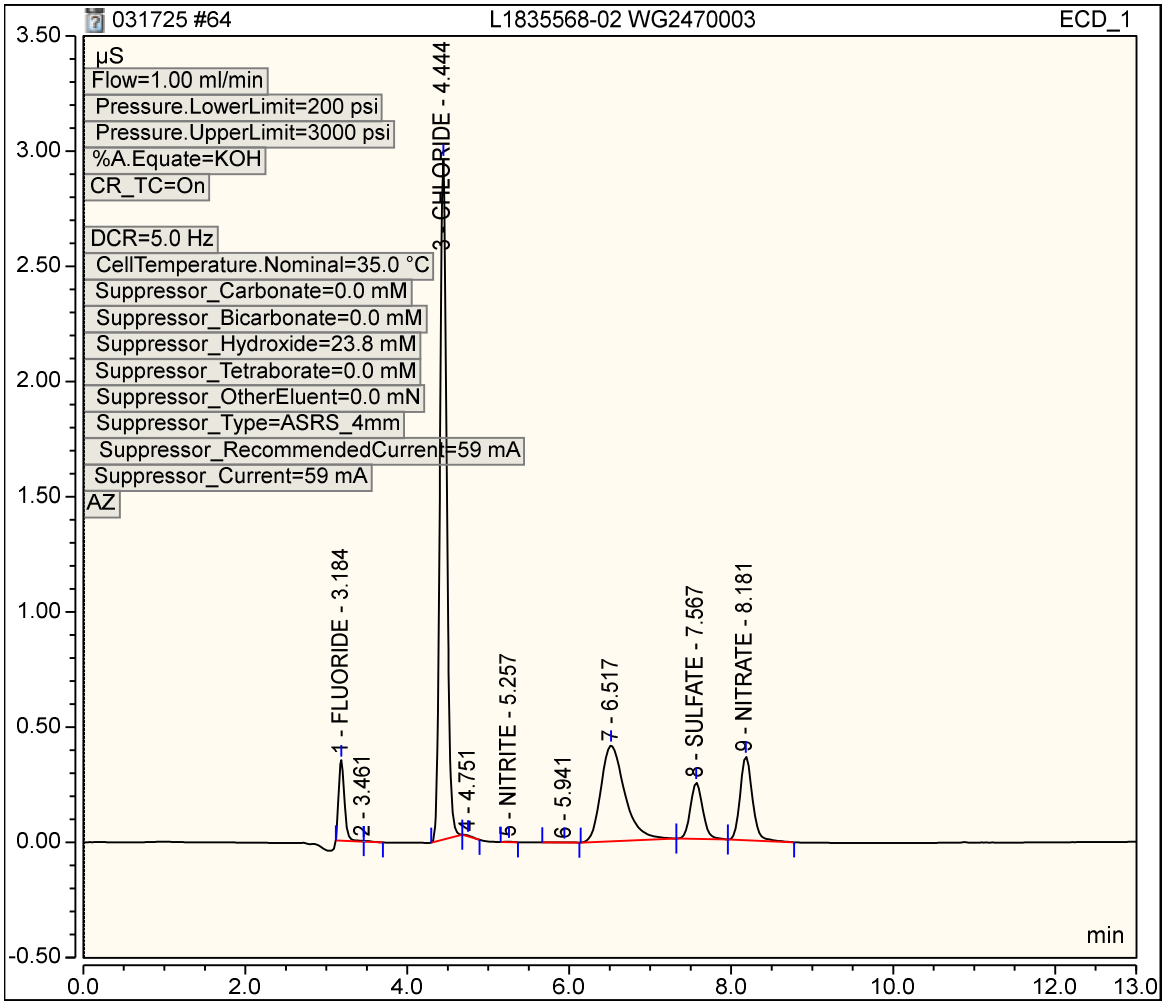
Sample Name:	**L1835568-01 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 01:41**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.024	0.288	0.1555
3	4.44	CHLORIDE	BMB	0.448	4.628	3.7325
5	5.25	NITRITE	BMB	0.000	0.002	0.0452
7	7.57	SULFATE	BMB	0.272	1.605	3.2758
8	8.18	NITRATE	BMB	0.022	0.133	0.1407
TOTAL:				0.77	6.66	7.35



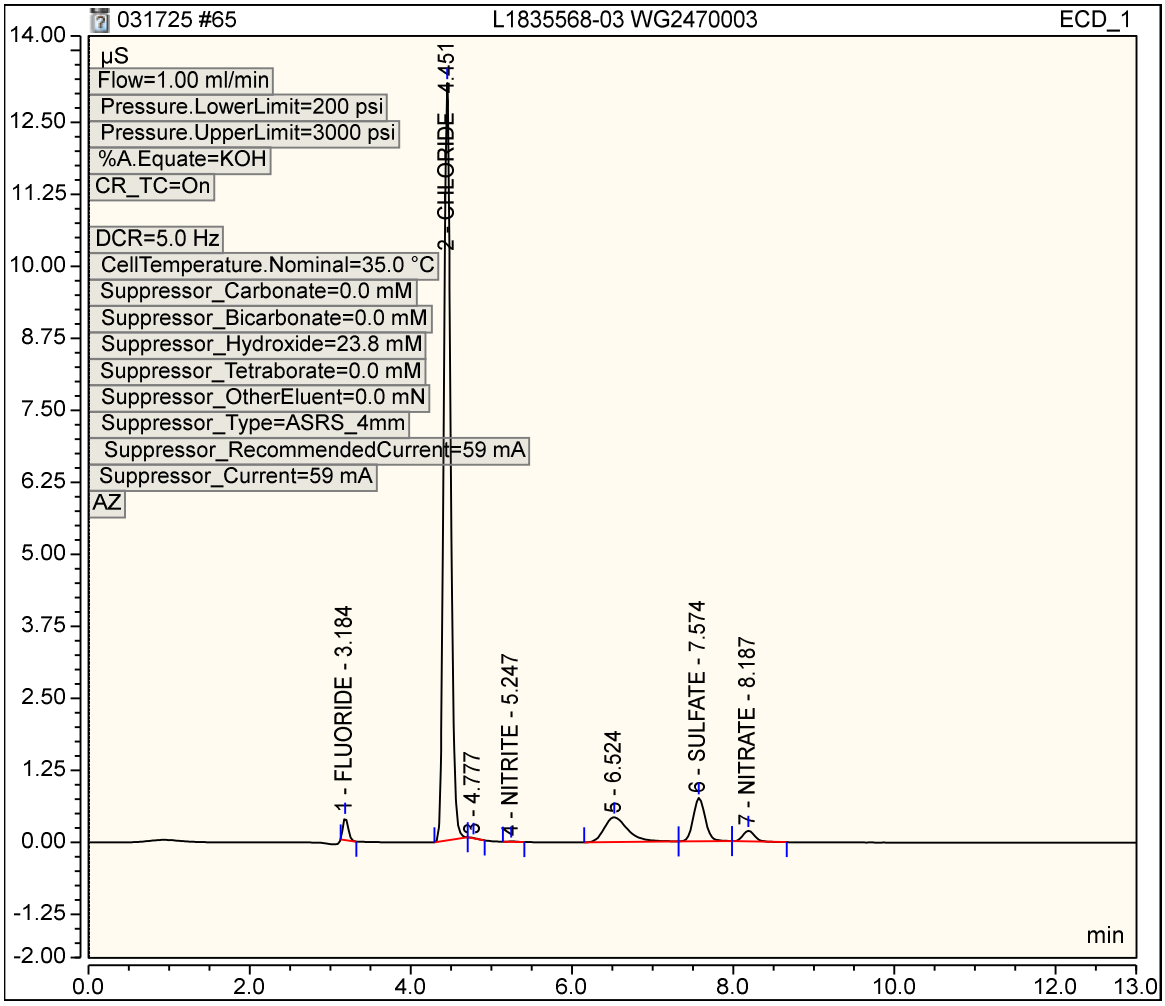
Sample Name:	**L1835568-02 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 01:57**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.029	0.349	0.1813
3	4.44	CHLORIDE	BMB	0.285	2.951	2.4398
5	5.26	NITRITE	BMB	0.000	0.003	0.0454
8	7.57	SULFATE	BMB	0.043	0.244	0.6864
9	8.18	NITRATE	BMB	0.064	0.364	0.2879
		TOTAL:		0.42	3.91	3.64



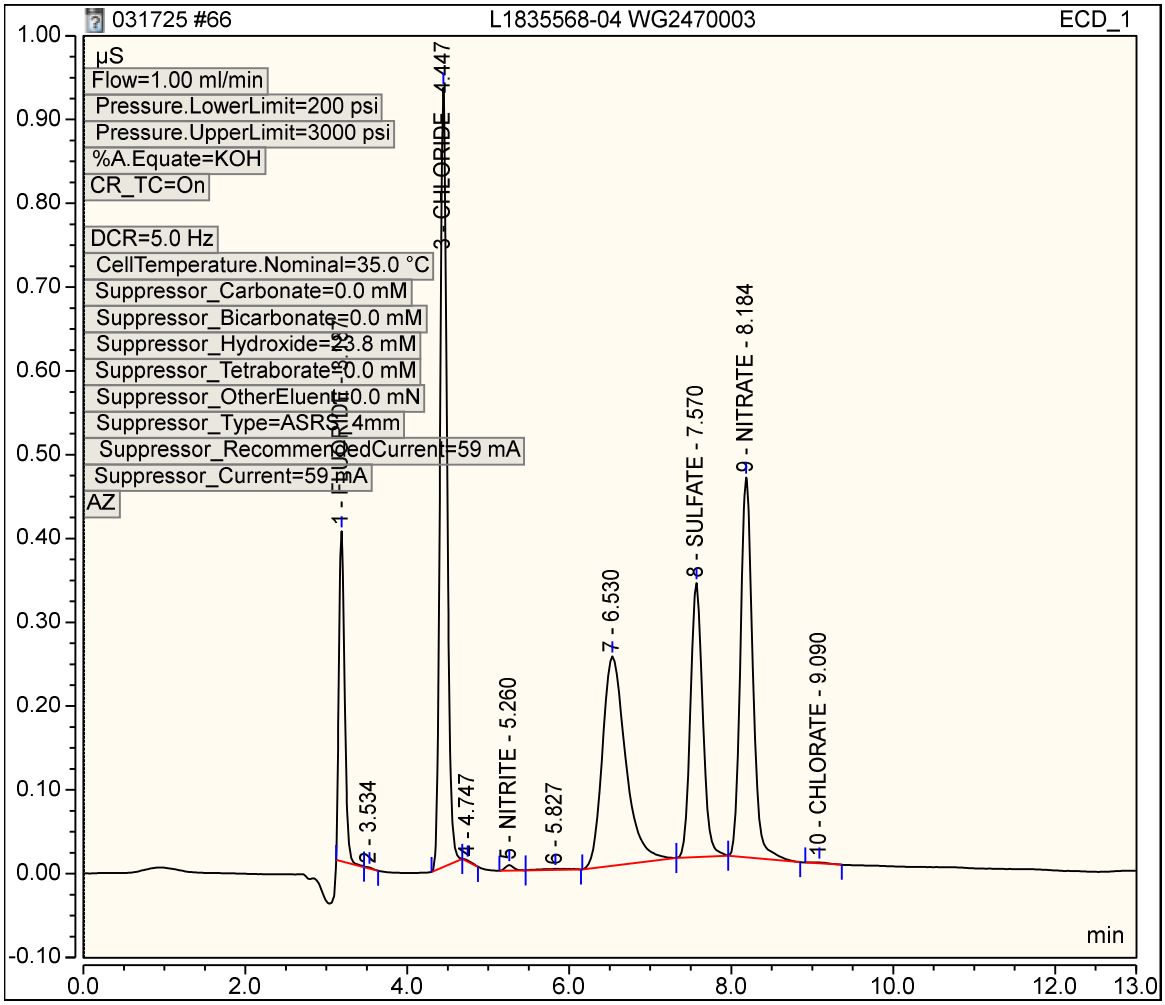
Sample Name:	**L1835568-03 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 02:13**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.030	0.390	0.1855
2	4.45	CHLORIDE	BMB	1.299	13.146	10.4896
4	5.25	NITRITE	BMB	0.001	0.008	0.0477
6	7.57	SULFATE	BMB	0.129	0.752	1.6628
7	8.19	NITRATE	BMB	0.031	0.183	0.1735
TOTAL:				1.49	14.48	12.56



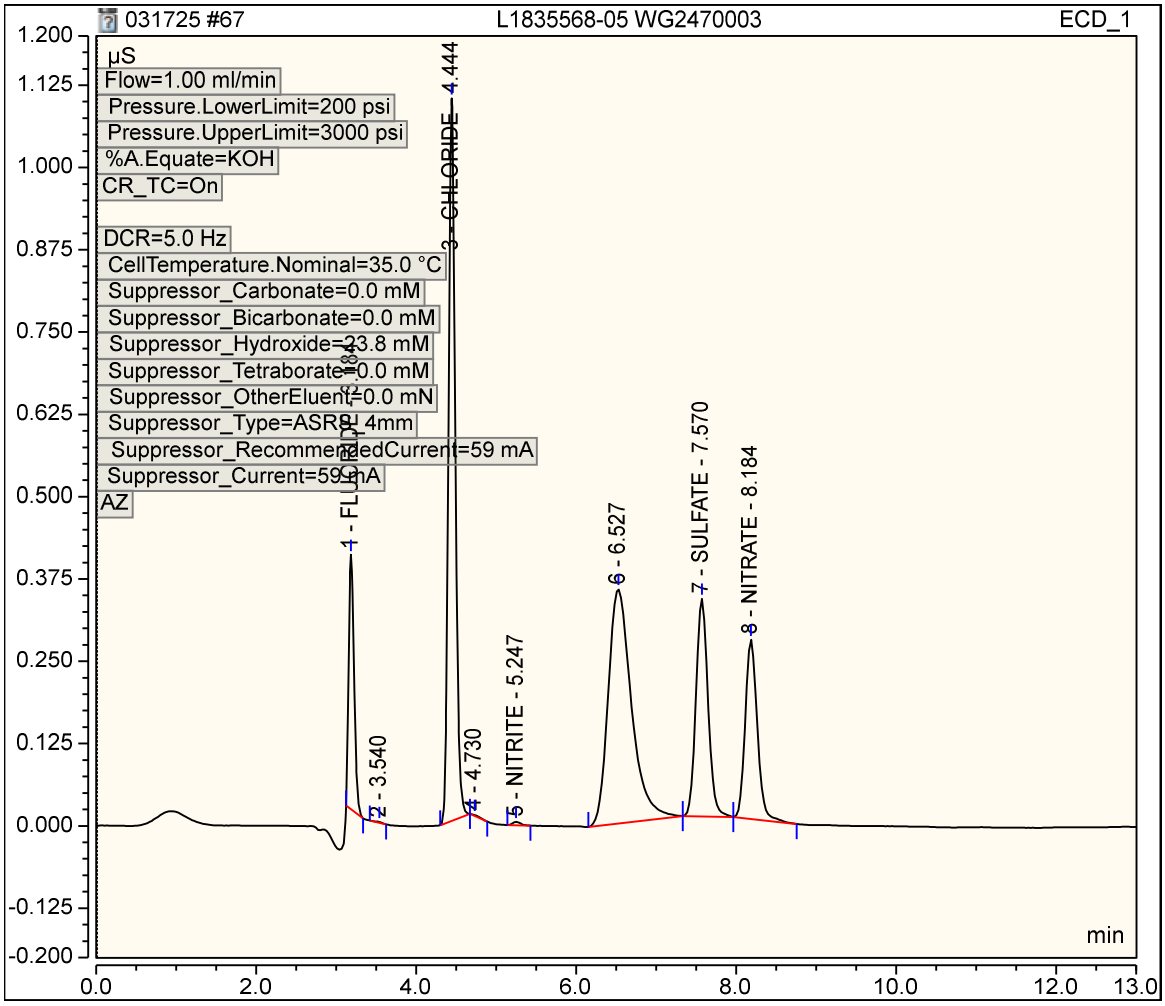
Sample Name:	**L1835568-04 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 02:29**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.032	0.394	0.1969
3	4.45	CHLORIDE	BMB	0.092	0.930	0.9066
5	5.26	NITRITE	BMB	0.001	0.007	0.0474
8	7.57	SULFATE	BMB	0.057	0.327	0.8492
9	8.18	NITRATE	BMB	0.079	0.453	0.3436
10	9.09	CHLORATE	BMB	0.000	0.001	0.0348
		TOTAL:		0.26	2.11	2.38



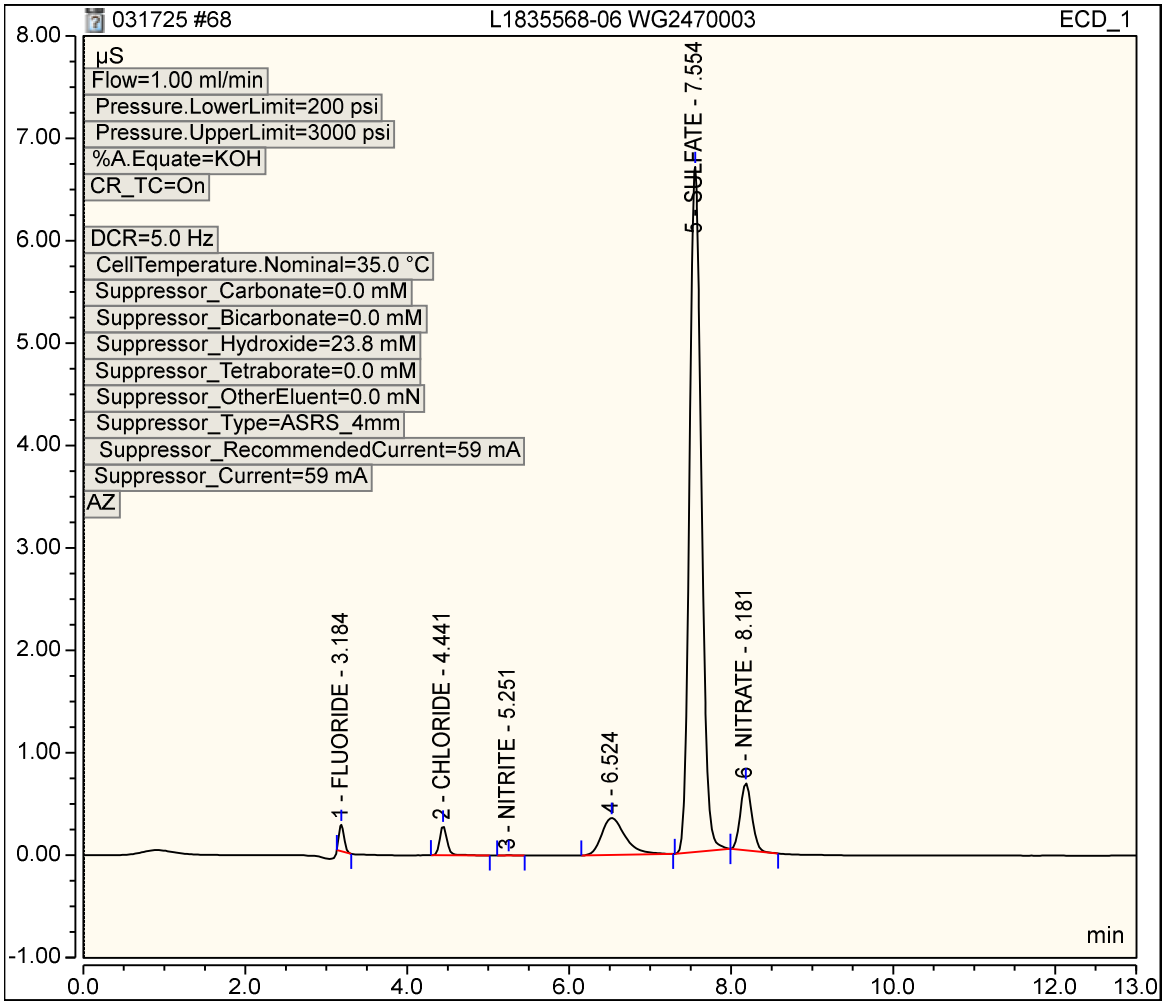
Sample Name:	**L1835568-05 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 02:45**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.030	0.387	0.1880
3	4.44	CHLORIDE	BMB	0.108	1.097	1.0319
5	5.25	NITRITE	BMB	0.001	0.005	0.0468
7	7.57	SULFATE	BMB	0.058	0.331	0.8553
8	8.18	NITRATE	BMB	0.048	0.272	0.2316
		TOTAL:		0.24	2.09	2.35



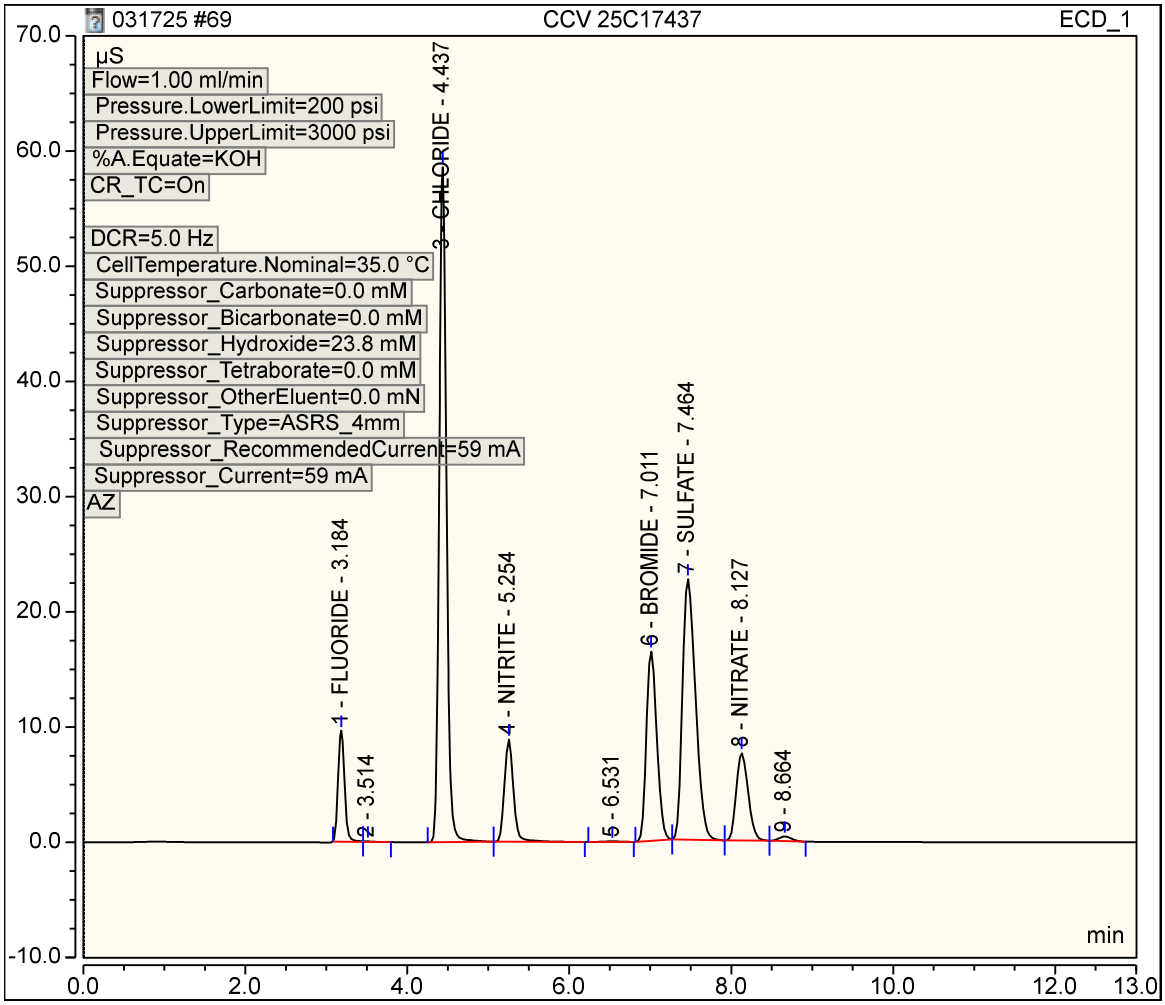
Sample Name:	**L1835568-06 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 03:01**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.019	0.259	0.1297
2	4.44	CHLORIDE	BMB	0.031	0.291	0.4236
3	5.25	NITRITE	BMB	0.001	0.005	0.0464
5	7.55	SULFATE	BMB	1.135	6.691	13.0150
6	8.18	NITRATE	BMB	0.108	0.656	0.4424
TOTAL:				1.29	7.90	14.06



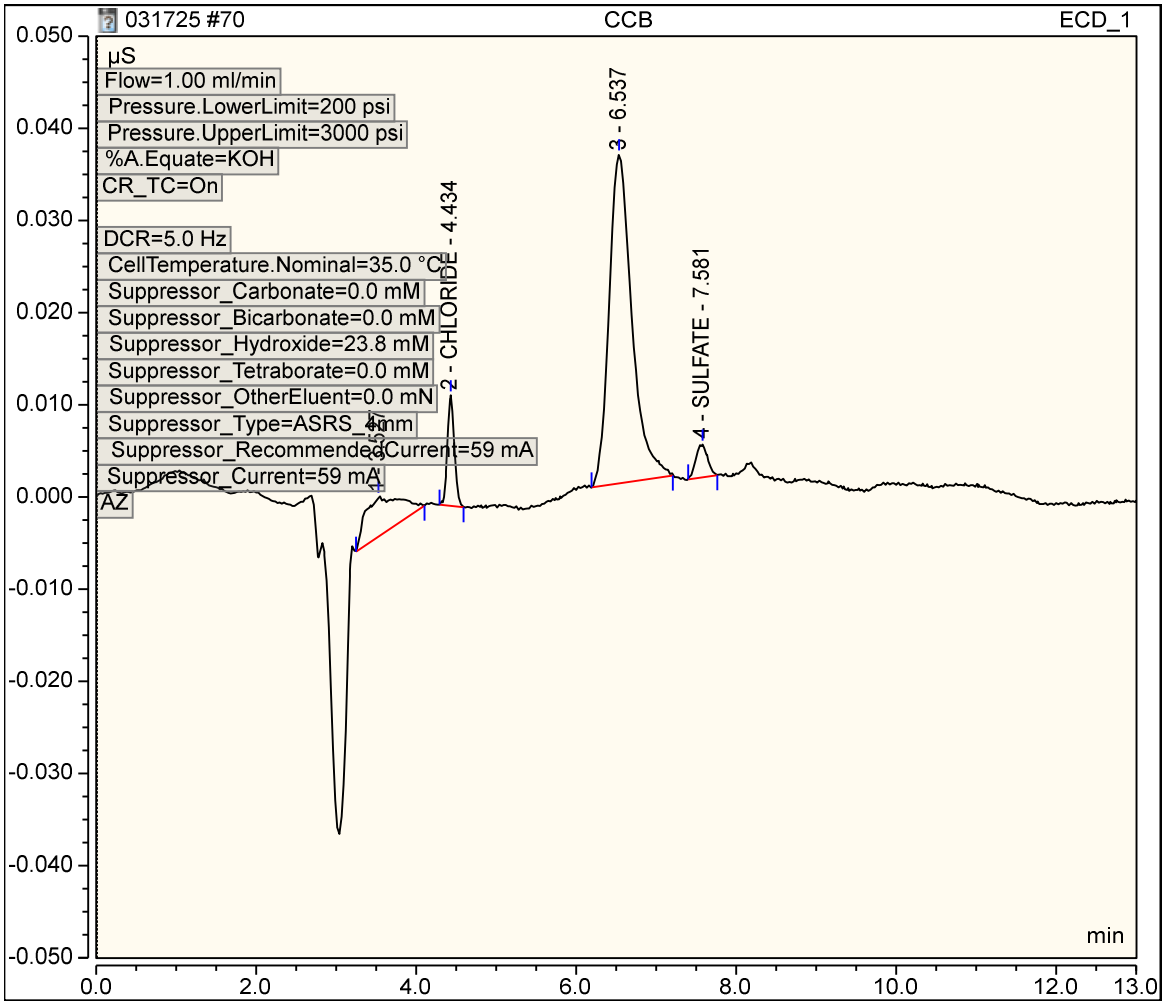
Sample Name:	**CCV 25C17437**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 03:17**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.887	9.632	4.6089
3	4.44	CHLORIDE	BMB	6.055	58.591	48.2578
4	5.25	NITRITE	BMB	1.148	8.883	4.7626
6	7.01	BROMIDE	BMB	2.455	16.444	47.6029
7	7.46	SULFATE	BMB	4.228	22.614	47.9429
8	8.13	NITRATE	BMB	1.298	7.591	4.6308
		TOTAL:		16.07	123.75	157.81



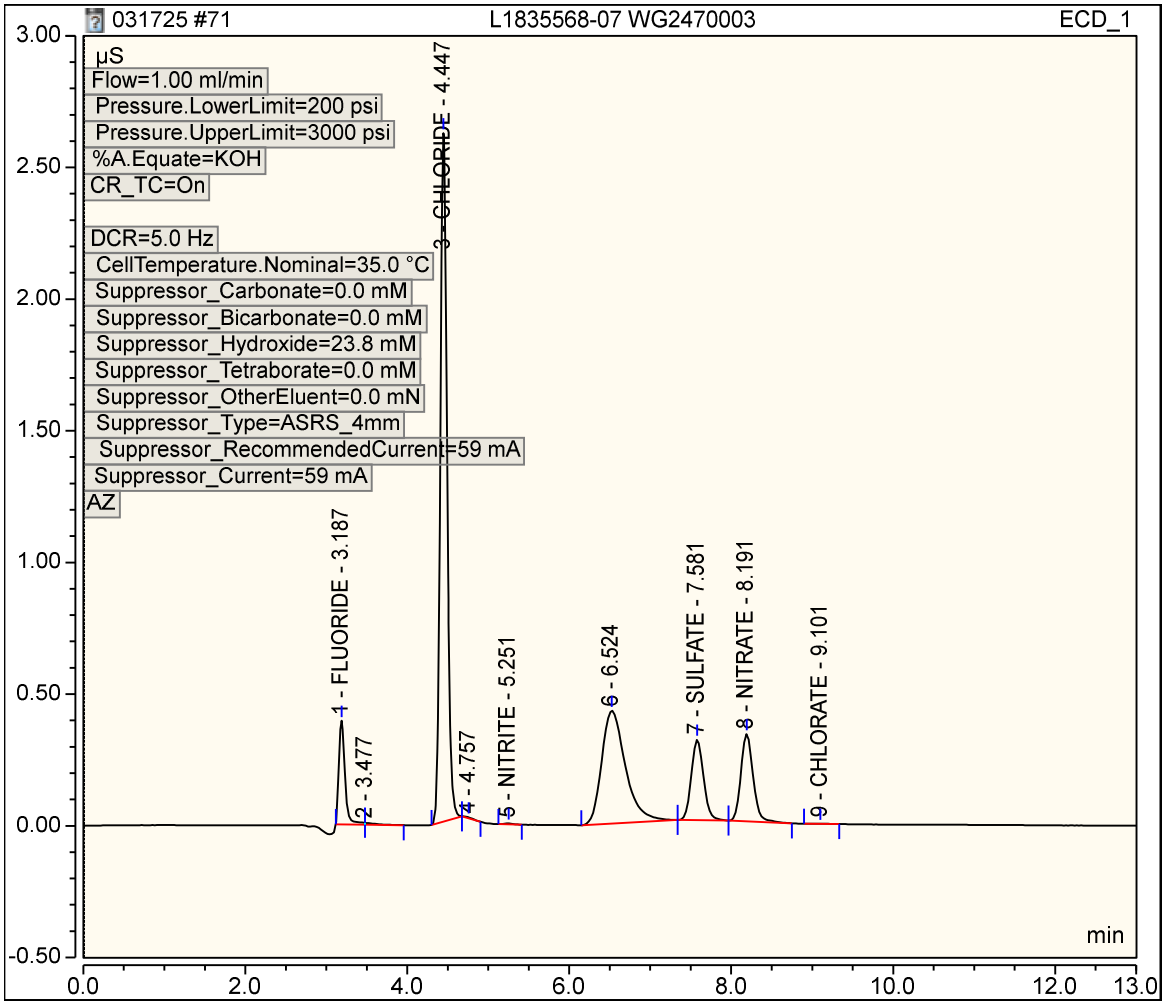
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 03:32**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
2	4.43	CHLORIDE	BMB	0.001	0.012	0.1870
4	7.58	SULFATE	BMB	0.001	0.004	0.2092
		TOTAL:		0.00	0.02	0.40



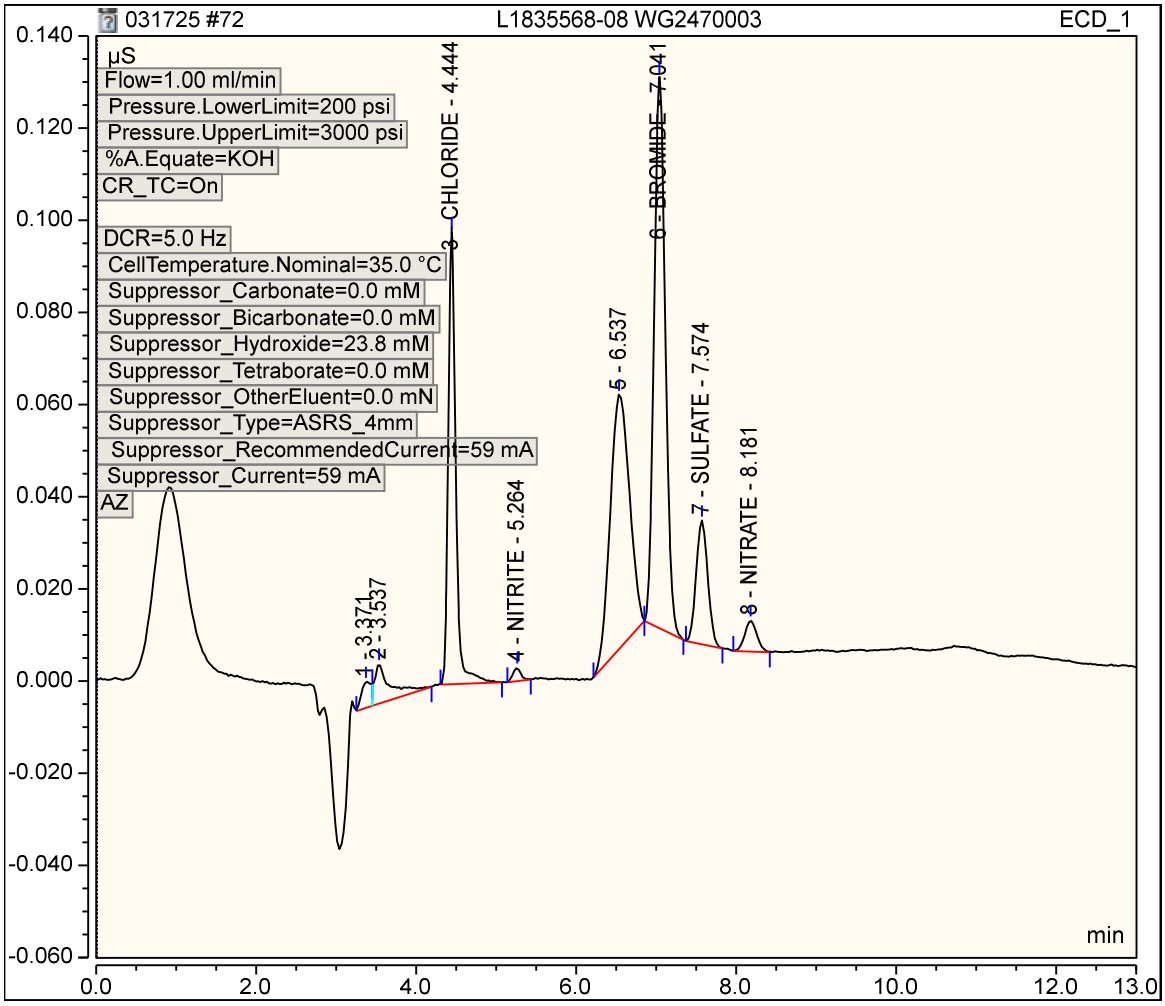
Sample Name:	**L1835568-07 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 03:48**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.034	0.393	0.2085
3	4.45	CHLORIDE	BMB	0.253	2.614	2.1835
5	5.25	NITRITE	BMB	0.000	0.004	0.0460
7	7.58	SULFATE	BMB	0.054	0.306	0.8084
8	8.19	NITRATE	BMB	0.058	0.332	0.2680
9	9.10	CHLORATE	BMB	0.000	0.001	0.0345
		TOTAL:		0.40	3.65	3.55



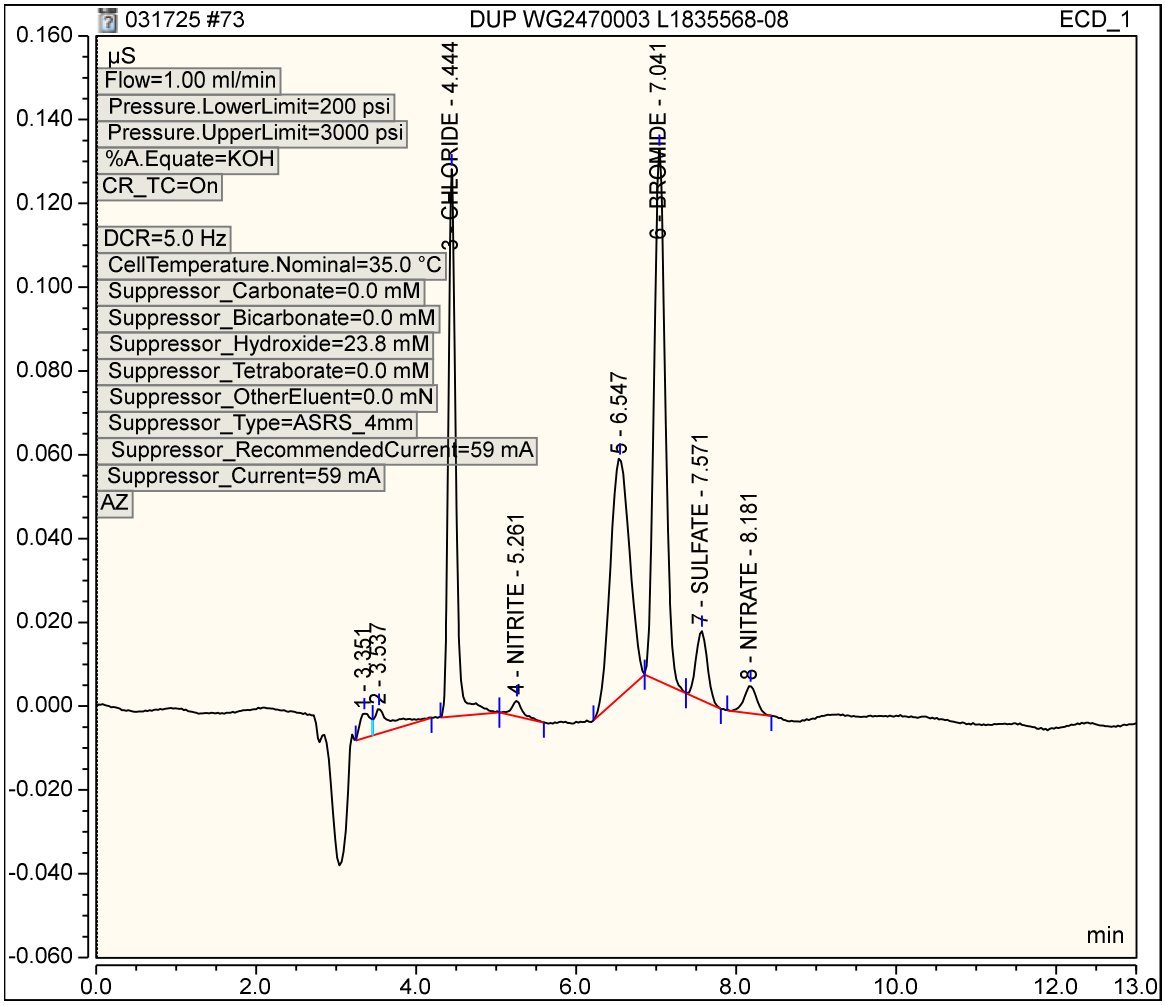
Sample Name:	**L1835568-08 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 04:04**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.44	CHLORIDE	BMB	0.011	0.098	26.2380
4	5.26	NITRITE	BMB	0.000	0.003	4.5637
6	7.04	BROMIDE	BMB	0.019	0.120	90.3352
7	7.57	SULFATE	BMB	0.005	0.027	25.3268
8	8.18	NITRATE	BMB	0.001	0.007	6.8097
		TOTAL:		0.04	0.25	153.27



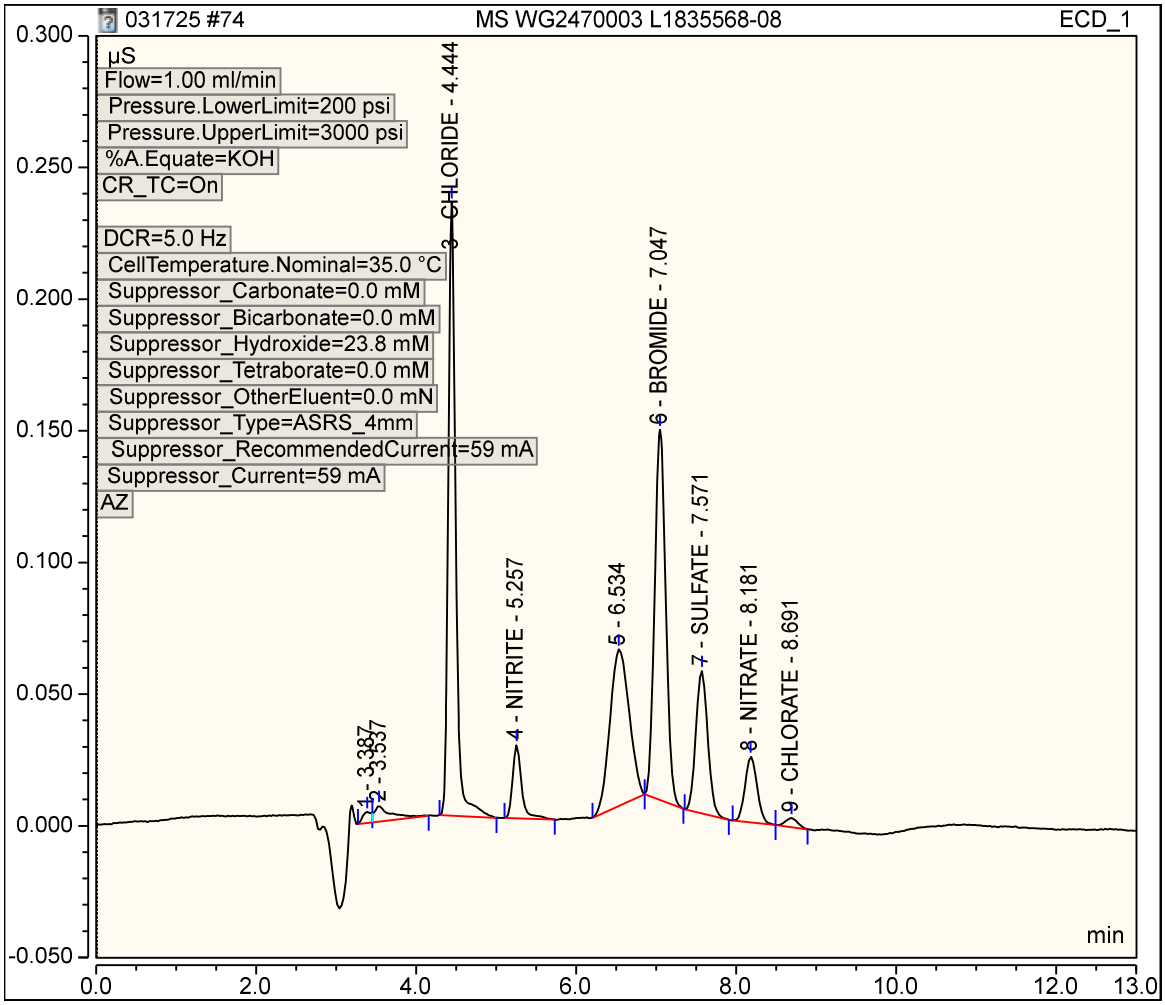
Sample Name:	**DUP WG2470003 L1835568-08**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 04:20**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.44	CHLORIDE	BMB	0.014	0.131	28.9852
4	5.26	NITRITE	BMB	0.001	0.004	4.6780
6	7.04	BROMIDE	BMB	0.021	0.127	92.6883
7	7.57	SULFATE	BMB	0.003	0.017	23.3415
8	8.18	NITRATE	BMB	0.001	0.007	6.8261
		TOTAL:		0.04	0.28	156.52



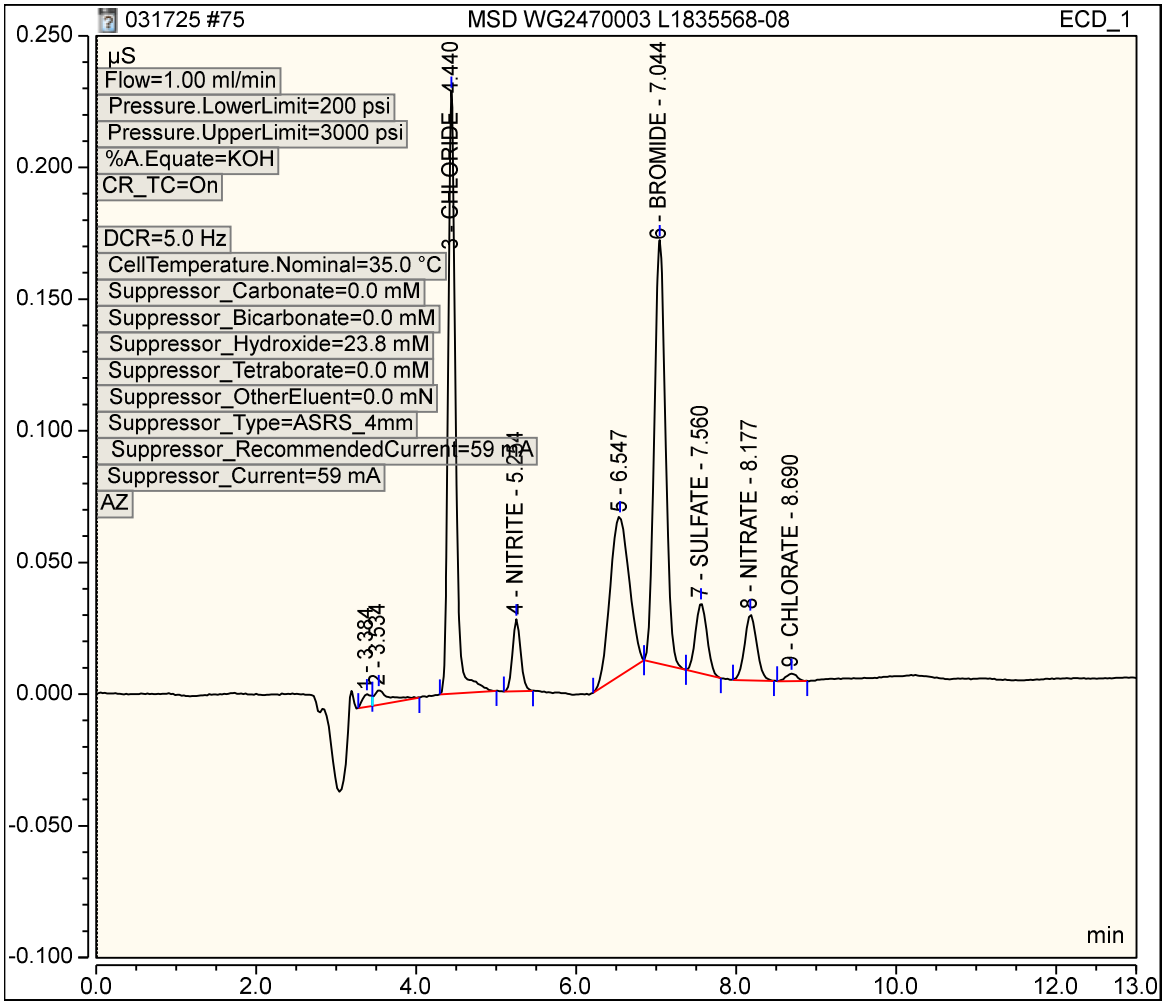
Sample Name:	**MS WG2470003 L1835568-08**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 04:36**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.44	CHLORIDE	BMB	0.025	0.233	37.6084
4	5.26	NITRITE	BMB	0.004	0.028	5.9289
6	7.05	BROMIDE	BMB	0.023	0.141	96.3291
7	7.57	SULFATE	BMB	0.009	0.054	30.7797
8	8.18	NITRATE	BMB	0.004	0.025	7.9380
9	8.69	CHLORATE	BMB	0.001	0.004	4.7449
		TOTAL:		0.07	0.48	183.33



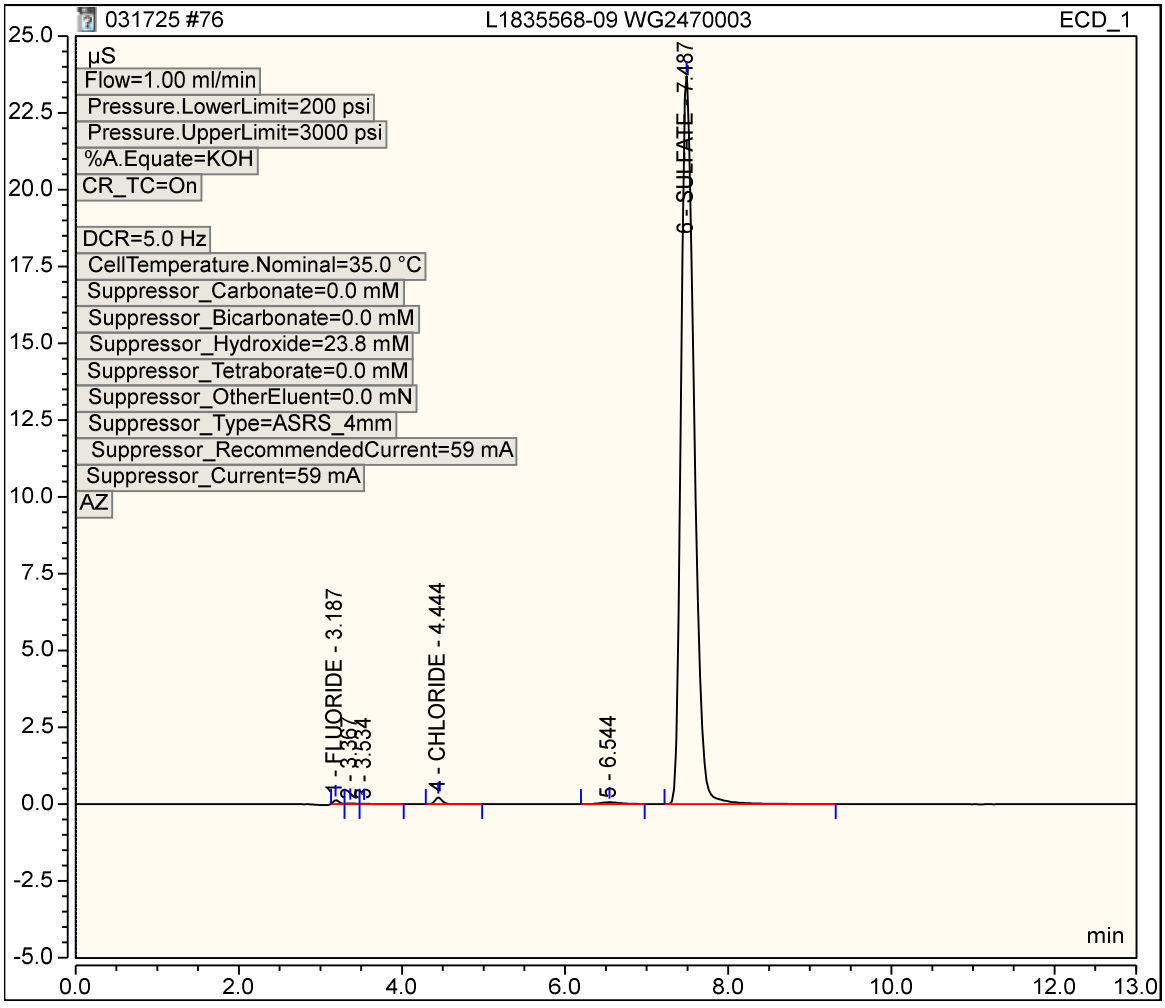
Sample Name:	**MSD WG2470003 L1835568-08**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 04:52**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.44	CHLORIDE	BMB	0.025	0.229	37.2656
4	5.25	NITRITE	BMB	0.003	0.027	5.7570
6	7.04	BROMIDE	BMB	0.026	0.161	103.0688
7	7.56	SULFATE	BMB	0.004	0.027	25.2761
8	8.18	NITRATE	BMB	0.004	0.025	7.9512
9	8.69	CHLORATE	BMB	0.000	0.003	4.2558
		TOTAL:		0.06	0.47	183.57



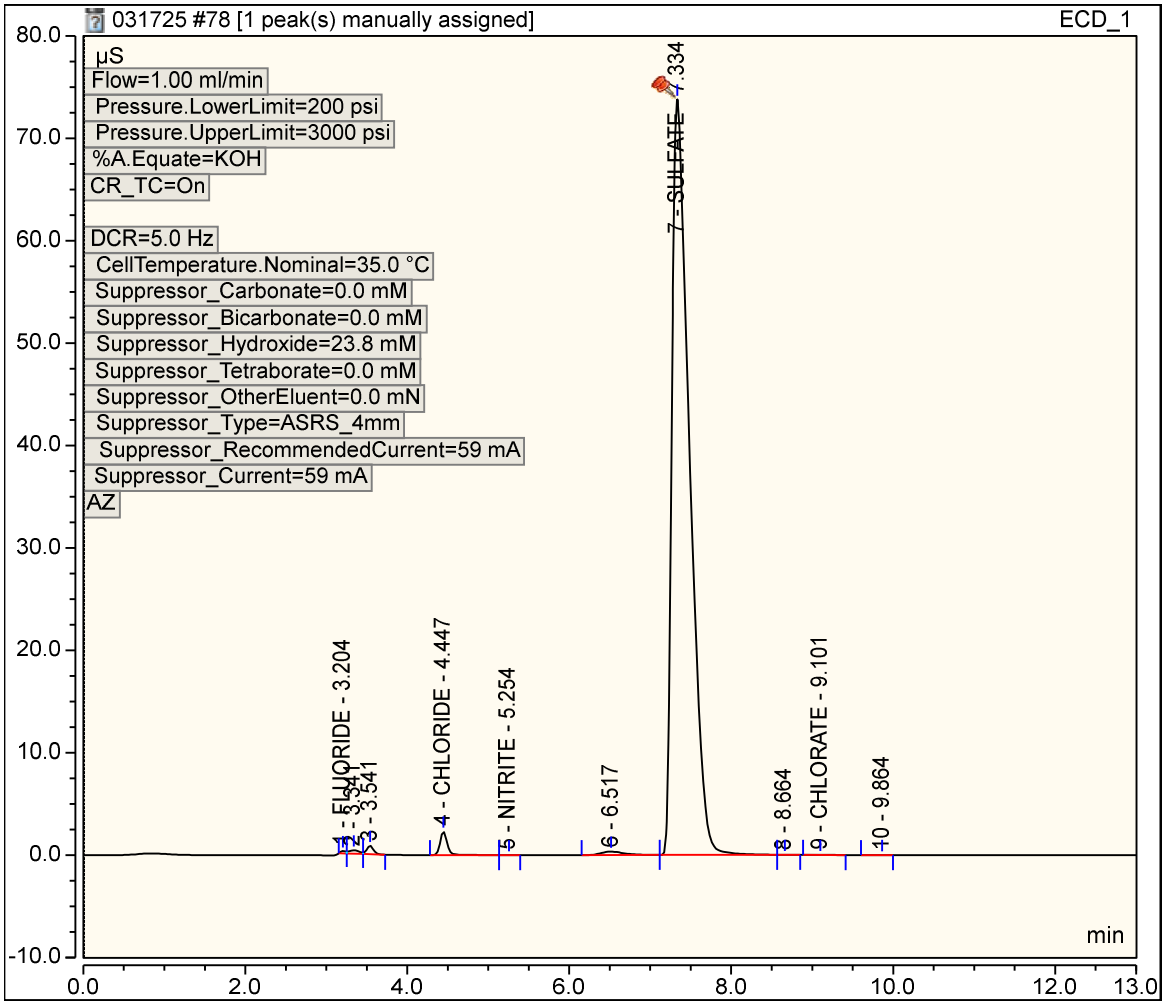
Sample Name:	**L1835568-09 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 05:08**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.010	0.127	0.0854
4	4.44	CHLORIDE	BMB	0.024	0.223	0.3665
6	7.49	SULFATE	BMB	4.430	23.693	50.2203
TOTAL:				4.46	24.04	50.67



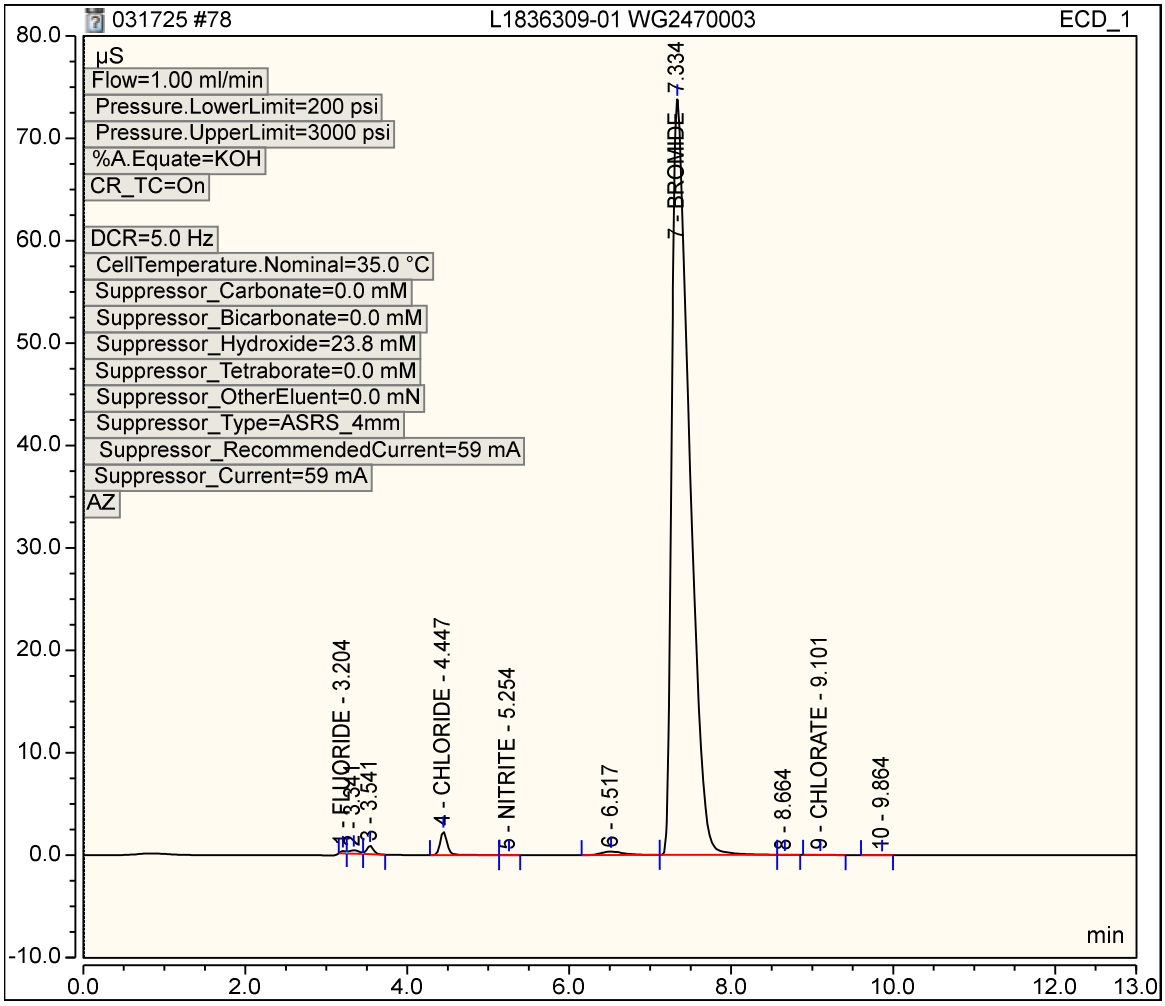
Sample Name:	**L1836309-01 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/18/25 05:39**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.20	FLUORIDE	BM	0.017	0.222	0.1200
4	4.45	CHLORIDE	BMB	0.237	2.310	2.0616
5	5.25	NITRITE	BMB	0.001	0.010	0.0485
7	7.33	SULFATE	BMB^	18.560	73.760	209.7569
9	9.10	CHLORATE	BMB	0.004	0.018	0.1488
		TOTAL:		18.82	76.32	212.14



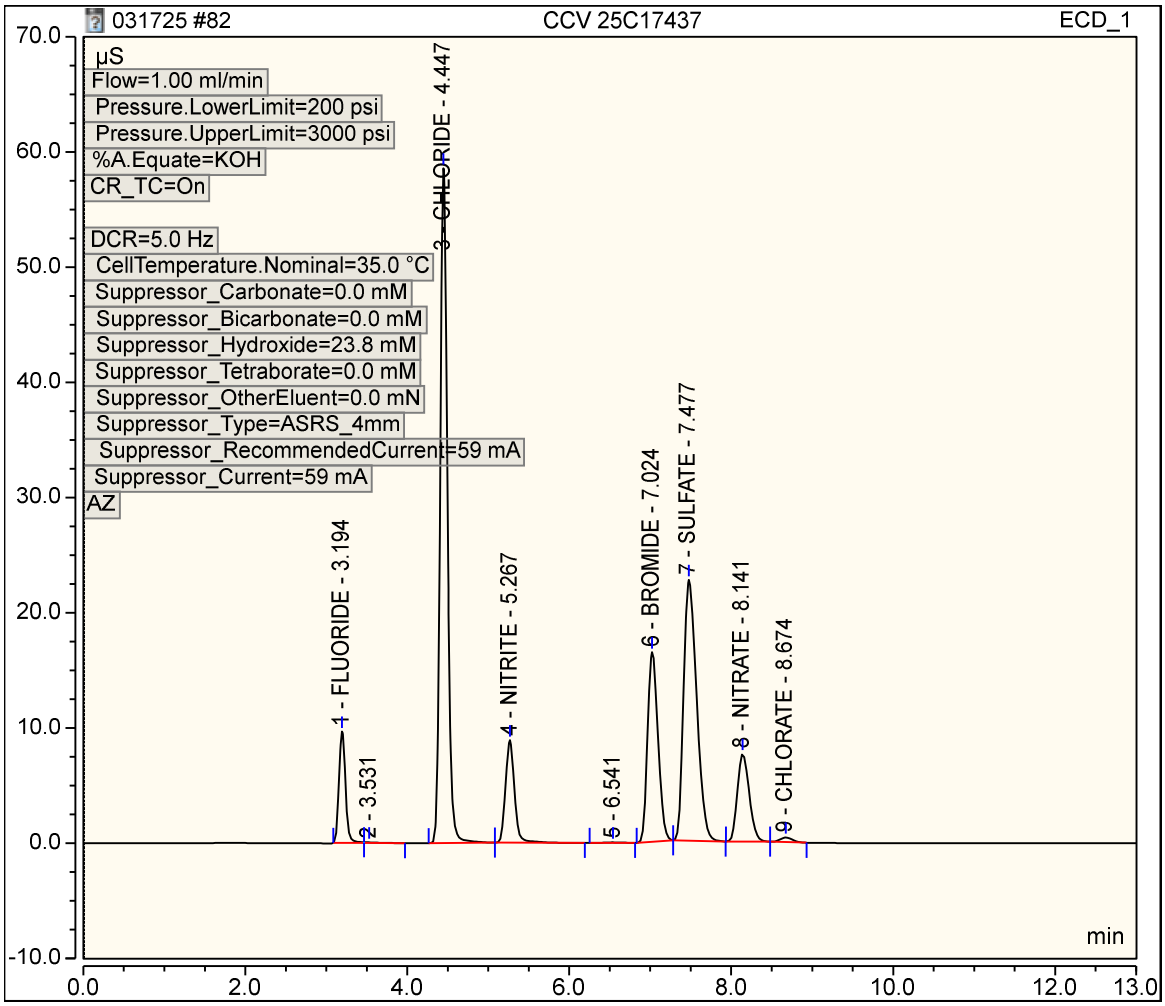
Sample Name:	**L1836309-01 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 05:39**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.20	FLUORIDE	BM	0.017	0.222	0.1200
4	4.45	CHLORIDE	BMB	0.237	2.310	2.0616
5	5.25	NITRITE	BMB	0.001	0.010	0.0485
7	7.33	BROMIDE	BMB	18.560	73.760	356.3790
9	9.10	CHLORATE	BMB	0.004	0.018	0.1488
		TOTAL:		18.82	76.32	358.76



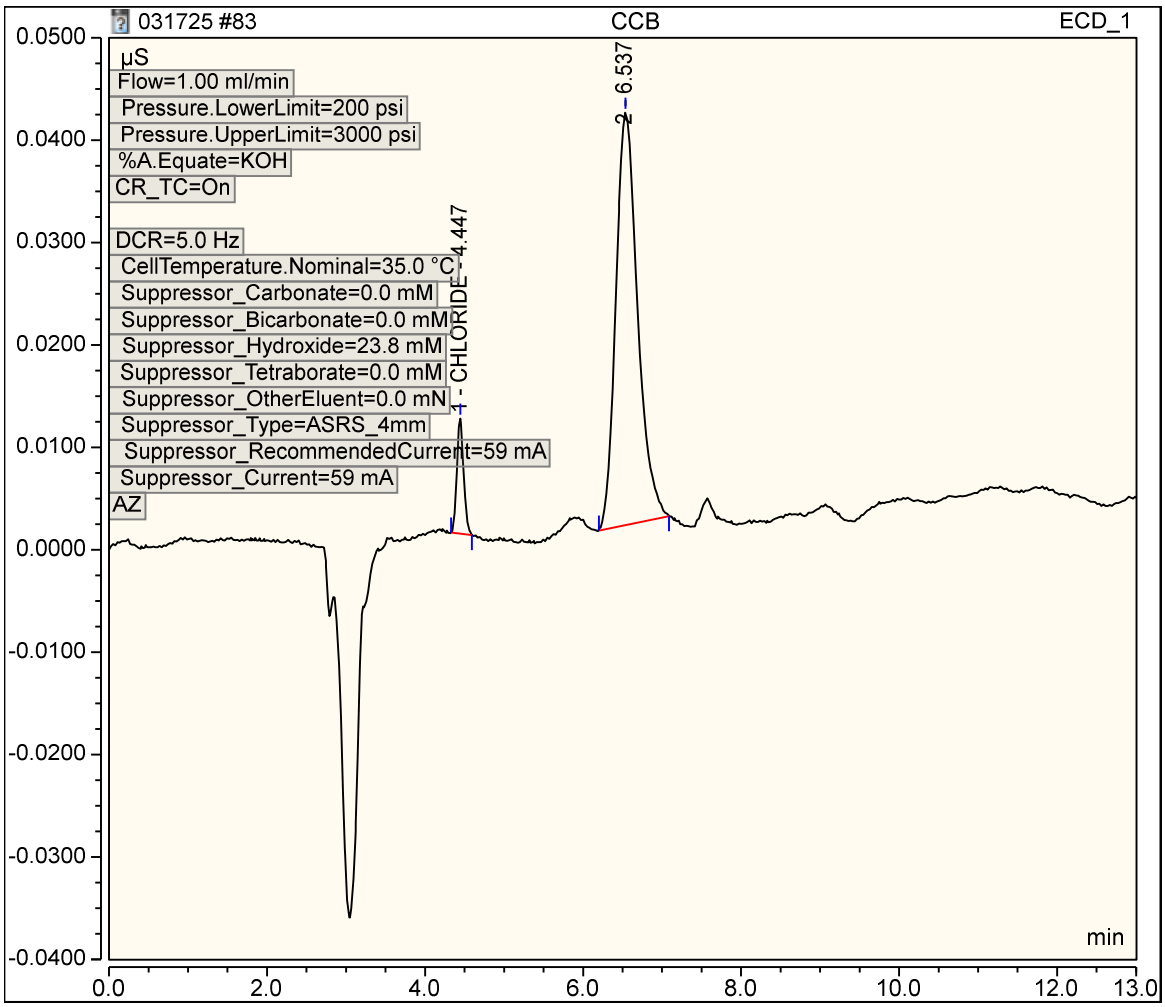
Sample Name:	**CCV 25C17437**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 06:43**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.896	9.653	4.6532
3	4.45	CHLORIDE	BMB	6.055	58.560	48.2574
4	5.27	NITRITE	BMB	1.150	8.893	4.7703
6	7.02	BROMIDE	BMB	2.455	16.447	47.6102
7	7.48	SULFATE	BMB	4.226	22.633	47.9187
8	8.14	NITRATE	BMB	1.296	7.600	4.6228
9	8.67	CHLORATE	BMB	0.071	0.403	2.3080
		TOTAL:		16.15	124.19	160.14



Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 06:59**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	4.45	CHLORIDE	BMB	0.001	0.011	0.1861
		TOTAL:		0.00	0.01	0.19



ANION SS WetChem Prep Benchsheet

Batch: WG2469046

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834441	WG2467751	KMT967	PREPREPBAL3	13-MAR-25
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25
L1834933	WG2467797	CMW844	PREPREPBAL4	12-MAR-25
L1835123	WG2467776	KMT967	PREPREPBAL2	12-MAR-25
L1835396	WG2468766	KMT967	PREPREPBAL3	13-MAR-25
L1835412	WG2468254	CLC4087	PREPREPBAL2	13-MAR-25
L1835452	WG2468821	KMT967	PREPREPBAL3	14-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25

Analyst: SAR4253 **Analyst 2:** NA___ **Analyst 3:** NA___ **Prep Start Date/Time:** 03/16/25 19:57 **Prep End Date/Time:** 03/16/25 22:58 **SOP:** 0155 **Method:** 9056
Balance ID: WETBAL3 **CentrifugeTube Lot#:** E24053JA **Eluent ID:** 241291398014 **Syringe Lot#:** 241125 **0.45 Filter Lot#:** 00360227-6 **0.2 Filter Lot#:** NA
1mL Auto Pipette SN: VU22950 **1mL Auto Pipette Tip Lot#:** 25010027 **5mL Pipette Lot#:** NA **10mL Pipette Lot#:** NA **Dilution Tube Lot#:** LV24080204-5030-MI
Chloride Strip Lot#: A5009A **Sulfate Strip Lot#:** 012L415-KK **Phosphate Strip Lot#:** NA **NO3/NO2 Strip Lot#:** 431303
IC Cap/Vial Lot#: 3250-18348/LV24071515-5031-IM **Tongue Depressor:** NA **pH strip Lot #:** 10BDH47241

Anion Standard (LCS/LCSD): 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26 **Chlorate (LCS/LCSD):** 25C16364 Amt. Used: 1.25 mL Exp. Date:04/12/25
Anion Standard (MS/MSD): 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26 **Chlorate (MS/MSD):** 25C16364 Amt. Used: 1.25 mL Exp. Date:04/12/25
Sand: 25B03887 Amt. Used: 5 g Exp. Date:02/03/26

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Dilution Factor	Prep Factor	Prep Ratio	Chloride Strip Dil.	NO2/NO3 Strip Dil.	Sulfate Strip Dil.	Sample pH	pH Dilution	Review Analyst	Review Date
BLANK	5	50	1	10	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
LCS	5	50	1	10	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
DUP(L1835396-02)	5.12	50	1	9.77	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
DUP(L1835412-01)	4.99	50	1	10.02	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
MS(L1835412-01)	4.9	50	1	10.2	1.02	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
MSD(L1835412-01)	4.92	50	1	10.16	1.02	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
1. L1834441-01	5.05	50	1	9.9	1	1x	5x	1x	7	1x	GEB3921	03/17/25 13:15:03
2. L1834664-10	5.14	50	1	9.73	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
3. L1834664-11	5.01	50	1	9.98	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
4. L1834933-01	4.90	50	1	10.2	1.02	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
5. L1835123-01	5.12	50	1	9.77	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
6. L1835396-01	5.07	50	1	9.86	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
7. L1835396-02	5.05	50	1	9.9	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
8. L1835396-03	5.05	50	1	9.9	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
9. L1835396-04	5.08	50	1	9.84	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
10. L1835412-01	4.80	50	1	10.42	1.04	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
11. L1835452-01	5.13	50	1	9.75	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
12. L1835452-02	5.09	50	1	9.82	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
13. L1835452-03	5.03	50	1	9.94	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
14. L1835452-04	5.06	50	1	9.88	1	1x	1x	10x	7	1x	GEB3921	03/17/25 13:15:03
15. L1835560-01	5.16	50	1	9.69	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
16. L1835560-02	5.07	50	1	9.86	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
17. L1835560-03	5.22	50	1	9.58	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
18. L1835560-04	5.03	50	1	9.94	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03
19. L1835560-05	5.07	50	1	9.86	1	1x	1x	1x	7	1x	GEB3921	03/17/25 13:15:03

Comments:
IC-10 031725 ELUENT: 241291398014

Reviewed By:GEB3921 on 03/17/25 13:15:03

ANION SS WetChem Prep Benchsheet

Batch: WG2470003

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835499	WG2469569	BJM688	PREPREPBAL3	15-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25
L1835904	WG2469565	BJM688	PREPREPBAL4	14-MAR-25
L1836309	WG2469547	BJM688	PREPREPBAL4	14-MAR-25
L1836333	WG2469598	BJM688	PREPREPBAL2	15-MAR-25
L1836364	WG2469565	BJM688	PREPREPBAL4	14-MAR-25

Analyst: SAR4253 **Analyst 2:** NA___ **Analyst 3:** NA___ **Prep Start Date/Time:** 03/17/25 19:35-03/18/25 10:07 **Prep End Date/Time:** 03/17/25 22:20-03/18/25 10:07
SOP: 0155 **Method:** 9056 **Balance ID:** WETBAL2 **CentrifugeTube Lot#:** E2402376 **Eluent ID:** 24191398014 **Syringe Lot#:** 241125 **0.45 Filter Lot#:** 00360227-6
0.2 Filter Lot#: NA **1mL Auto Pipette SN:** UU08330 **1mL Auto Pipette Tip Lot#:** 25010027 **5mL Pipette Lot#:** NA **10mL Pipette Lot#:** NA
Dilution Tube Lot#: LV24080204-5030-MI **Chloride Strip Lot#:** A5009A **Sulfate Strip Lot#:** 012K415-KK **Phosphate Strip Lot#:** NA **NO3/NO2 Strip Lot#:** 431303
IC Cap/Vial Lot#: 3250-18348/LV24071515-5031-IM **Tongue Depressor:** NA **pH strip Lot #:** 10BDH47241

Anion Standard (LCS/LCSD): 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26 **Chlorate (LCS/LCSD):** 25C16364 Amt. Used: 0.25 mL Exp. Date:04/12/25
Anion Standard (MS/MSD): 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26 **Chlorate (MS/MSD):** 25C16364 Amt. Used: 0.25 mL Exp. Date:04/12/25
Sand: 25B03887 Amt. Used: 5 g Exp. Date:02/03/26

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Dilution Factor	Prep Factor	Prep Ratio	Chloride Strip Dil.	NO2/NO3 Strip Dil.	Sulfate Strip Dil.	Sample pH	pH Dilution	Review Analyst	Review Date
BLANK	5	50	1	10	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
LCS	5	50	1	10	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
DUP(L1835560-06)	5	50	1	10	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
DUP(L1835568-08)	5	50	1	10	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
MS(L1835568-08)	5	50	1	10	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
MSD(L1835568-08)	5	50	1	10	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
1. L1835499-01	5.13	50	1	9.75	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
2. L1835560-06	5.21	50	1	9.6	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
3. L1835560-07	4.85	50	1	10.31	1.03	1x	1x	1x	10	10x	DLH3532	03/18/25 10:09:07
4. L1835560-08	5.06	50	1	9.88	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
5. L1835568-01	5.08	50	1	9.84	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
6. L1835568-02	5.03	50	1	9.94	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
7. L1835568-03	5.21	50	1	9.6	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
8. L1835568-04	5.01	50	1	9.98	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
9. L1835568-05	5.17	50	1	9.67	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
10. L1835568-06	5.17	50	1	9.67	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
11. L1835568-07	5.07	50	1	9.86	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
12. L1835568-08	5.05	50	1	9.9	1	1x	1x	1x	12	100x	DLH3532	03/18/25 10:09:07
13. L1835568-09	5.11	50	1	9.78	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
14. L1835904-01	4.99	50	1	10.02	1	1x	10x	1x	7	1x	DLH3532	03/18/25 10:09:07
15. L1836309-01	5.03	50	1	9.94	1	1x	1x	5x	7	1x	DLH3532	03/18/25 10:09:07
16. L1836333-01	4.79	50	1	10.44	1.04	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
17. L1836364-01	5	50	1	10	1	1x	1x	10x	7	1x	DLH3532	03/18/25 10:09:07
18. L1836364-02	4.98	50	1	10.04	1	1x	1x	1x	10	10x	DLH3532	03/18/25 10:09:07

Comments:
IC 10 031725

Reviewed By:DLH3532 on 03/18/25 10:09:07

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Coef1	First Order Coefficient.
Coef2	Second Order Coefficient.
Corr.	Correlation Coefficient.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Incpt	Intercept.
Mass	Mass of parameter.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RSD	Relative Standard Deviation.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Wavelength	Wavelength of parameter.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

GLOSSARY OF TERMS

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

S

Company Name/Address: Haley & Aldrich - Phoenix
400 E. Van Buren St. #545
Phoenix, AZ

Billing Information: Attn: Accounts Payable
70 Blanchard Rd Suite 204
Burlington, MA 01803

Pres Chk

Report to: Samantha Kaney 602-760-2441

Email To: skaney@haleyaldrich.com

Project Description: ESI - Env Sampling

City/State Collected: Missouri

Please Circle: PT MT CT ET

Phone:

Client Project # 0213103-000

Lab Project #

Collected by (print): S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Hexavalent Chromium - SW7196A	Mercury - SW 7471B	Total Metals - SW6010B	Radium 226 & 228 - EPA 903.1/904	Sulfate Anions - SW-846 9056A	Remarks	Sample # (lab only)
Clinton-School_Ditch_S_So	Comp	SS	0-1	3/11/25	0810	3	X	X	X	X	X		-01
18_901_S_So	Comp	SS	0-1	3/4/25	0900	3	X	X	X	X	X		-02
K_18_S_So	Comp	SS	0-1	3/4/25	0940	3	X	X	X	X	X		-03
P_230_S_So	Comp	SS	0-1	3/11/25	1025	3	X	X	X	X	X		-04
P_350_S_So	Comp	SS	0-1	3/11/25	1055	3	X	X	X	X	X		-05
NHR_S_So	Comp	SS	0-1	3/11/25	1135	3	X	X	X	X	X		-06
Fly Ash_S_So	Grab	SS*	0-1	3/11/25	1508	3	X	X	X	X	X		-07

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # UG35500
G162

Acctnum:
Template:
Prelogin:
PM:
PB:
Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Splits
no rush on rad - *fly ash*

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS X FedEx __ Courier __ _____

Tracking # 4439 2938 8594

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR
	3/11/25	1735	FedEx	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
				GA 3.4 3.8 21
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
				3/12/25 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

3/13 L1835560/L1835561 HALALDPAZ

R5

Time estimate: oh **Time spent:** oh

Members

Hailey Robertson (responsible) DR Daphne Richards

Due on *17 March 2025 8:00 AM* for target *Done*

- [ ] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Custody seal not intact
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [x] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Hailey Robertson *13 March 2025 10:08 AM*

Received ID: MONTROSE-LAKE-S-SO (3/11/25 @ 1330) not listed on the CCC.

Daphne Richards *13 March 2025 2:50 PM*

Add to L1835560

Hailey Robertson *13 March 2025 3:02 PM*

Added

Radiochemistry Raw Data

CALCULATIONS

Ra-226 ACTIVITY CALCULATION

Conc (C) pCi/l = ((A/T -B))/(V*E*Y*2.22*F)

A	Peak Area (cpm)
B	Area Background (cpm)
T	Count time (min)
V	Volume (L or g)
E	Efficiency (%)
Y	Ba-133 Yield (%)
2.22	Conversion from dpm to pCi
F	Isotope Energy Abundance

Example

Conc (C) pCi/l = ((A -(B*T))/(T*V*E*Y*2.22*F)

Conc (C) pCi/l = (621 -(.019*200))/(200*1*..262*1*2.22*1)

Conc (C) pCi/l = 5.31

A	621
B	0.019
T	200
V	1
E	0.262
Y	100%
2.22	2.22
F	1

2 Sigma Counting Uncertainty

2σCE = 1.96*SQRT(A/T/T+B/T)/(V*E*Y*2.22*F)

Example

2σCE = 1.96*SQRT(A/T/T+B/T)/(V*E*Y*2.22*F)

2σCE = 1.96*(SQRT(621/200/200+.019/200))/(1*0.261*1*2.22*1)

2σCE = 0.421

A	621
B	0.019
T	200
V	1.000
E	0.262
Y	1.000
2.22	2.220
F	1.000

COMBINED SAMPLE UNCERTAINTY(CSU OR TPU)

2σTPU = 1.96*SQRT((EU/E)^2*C+(VU/V)^2*C+(YU/U)^2*C+(TrU/Tr)^2+C)+2σCE

EU	Eff unc.	0.011
VU	Vol. Unc.	0.001
YU	Yield Unc.	0.05
TrU	Ba-133 Tracer Unc.	294
Tr	Ba-133 Tracer Counts	11142
C	Sample Activity	5.31

Example

2σTPU = 1.96*SQRT((EU/E)^2*C+(VU/V)^2*C+(YU/U)^2*C+(TrU/Tr)^2+C)+2σCE

2σTPU = 1.96*SQRT(((0.011/0.262)^2*5.31)+((0.001/1)^2*5.31)+((0.05/1)^2*5.31)+((294/11142)^2*5.31))+K30

2σTPU = 0.739

A	621
B	0.019
T	200
V	1
E	0.262
Y	1
2.22	2.22
F	1

CRITICAL LEVEL (CL)

Lc = 1.65*sqrt(B/T+B/1000)/(V*E*Y*2.22*F)

Example

Lc = 1.65*sqrt(B/T+B/1000)/(V*E*Y*2.22*F)

Lc = 1.65*(sqrt(0.019/200+.019/1000))/(1*0..262*.1*2.22*1)

Lc = 0.030

A	621
B	0.019
T	200
V	1
E	0.262
Y	1
2.22	2.22
F	1

MINIMUM DETETABLE ACTIVITY(MDA/MDC)

MDA = 3.29*(sqrt(B/T+B/1000)/(V*E*Y*2.22*F))+3/(T*V*E*Y*2.22*F)

Example

MDA = 3.29*(sqrt(B/T+B/1000)/(V*E*Y*2.22*F))+3/(T*V*E*Y*2.22*F)

MDA = =3.29*(sqrt(.019/200+.019/1000)/(1*0.2262*1*2.22*1))+3/(200*1*.262*1*2.22*1)

MDA = 0.086

A	621
B	0.019
T	200
V	1
E	0.262
Y	1
2.22	2.22
F	1

CALCULATIONS

Ra-224 ACTIVITY CALCULATION

Conc (C) pCi/l = ((A/T -B)-(Tr*.011))/(T*V*E*Y*2.22*DF)

A	Peak Area (cpm)
B	Area Background (cpm)
T	Count time (min)
V	Volume (L or g)
E	Efficiency (%)
Y	Ba-133 Yield (%)
2.22	Conversion from dpm to pCi
F	Isotope Energy Abundance
DF	Decay factor

Conc (C) pCi/l = ((A -(B*T))/(T*V*E*Y*2.22*F*DF)

Conc (C) pCi/l = (10 -(006*200))/(200*1*.262*1*2.22*1*.95)

Conc (C) pCi/l = 0.080

A	10
B	0.006
T	200
V	1
E	0.262
Y	100%
2.22	2.22
F	0
DF	0.950

2 Sigma Counting Uncertainty

2σCE = 1.96*SQRT(A/T/T+B/T)/(V+E+Y*2.22*F*DF)

Example

2σCE = 1.96*SQRT(A/T/T+B/T)/(V*E*Y*2.22*F*DF)

2σCE = 1.96*(SQRT(10/200/200+.006/200))/(1*0.262*1*2.22*1*.95)

2σCE = 0.059

COMBINED SAMPLE UNCERTAINTY(CSU OR TPU)

2σTPU = 1.96*SQRT(EU/E^2*C+VU/V^2*C+YU/U^2*C)+2σCE

EU	0.011
VU	0.001
YU	0.050
TrU	294
Tr	11142

2σTPU = 1.96*SQRT(EU/E^2*C+VU/V^2*C+YU/U^2*C+TrU/Tr^2+C)+2σCE

2σTPU = 1.96*SQRT(((0.011/0.262)^2*.080)+((0.001/1)^2*.080)+((0.05/1)^2*.080)+((294/11142)^2*.080))+.059

2σTPU = 0.098

CRITICAL LEVEL (CL)

Lc = (1.65*sqrt(B/T+B/1000)/(V*E*Y*2.22*F))/DF

Lc = (1.65*sqrt(B/T+B/1000)/(V*E*Y*2.22*F))/DF

Lc = (1.65*(sqrt(0.006/200+.006/1000))/(1*0.262*1*2.22*1))/.95

Lc = 0.018

MINIMUM DETETABLE ACTIVITY(MDA/MDC)

MDA = (3.29*sqrt(B/T+B/1000)/(V*E*Y*2.22*F)+3/(T*V*E*Y*2.22*F))/DF

MDA = (3.29*sqrt(B/T+B/1000)/(V*E*Y*2.22*F)+3/(T*V*E*Y*2.22*F))/DF

MDA = =(3.29*sqrt(.006/200+.006/1000)/(1*0.262*1*2.22*1)+3/(200*1*.262*1*2.22*1))/0.95

MDA = 0.063

RADIUM 226 (Ra-226)
METHOD: **SM-7500-RA-B (M)**
SDG# **WG2475924**

	Ra226						Ra224						PREP	DATE	
LAB ID	**Result**	**2 s Error**	**TPU**	**Lc**	**MDA**	**Q**	**Result**	**2 s Error**	**TPU**	**Lc**	**MDA**	**Units**	**DATE**	**COUNTED**	**ANALYST**
BLANK WG2475924	0.024	0.047	0.070	0.023	0.076		-0.024	0.031	0.054	0.028	0.087	pCi/g	3/26/25	04/02/25	ZRG3837
LCS WG2475924	4.718	0.422	0.759	0.034	0.097		-0.041	0.039	0.070	0.036	0.101	pCi/g	3/26/25	04/02/25	ZRG3837
MS L1835561-05 WG2475924	4.537	0.396	0.701	0.023	0.072		-0.043	0.038	0.068	0.035	0.097	pCi/g	3/26/25	04/02/25	ZRG3837
MSD L1835561-05 WG2475924	4.319	0.394	0.672	0.018	0.065		-0.032	0.034	0.057	0.031	0.090	pCi/g	3/26/25	04/02/25	ZRG3837
DUP L1834667-08 WG2475924	0.363	0.106	0.184	0.021	0.065		-0.031	0.029	0.052	0.027	0.076	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-01 WG2475924	0.804	0.153	0.264	0.012	0.046		-0.004	0.011	0.020	0.010	0.043	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-02 WG2475924	0.777	0.153	0.264	0.013	0.048		-0.006	0.014	0.024	0.013	0.048	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-03 WG2475924	0.532	0.136	0.235	0.017	0.061		-0.017	0.024	0.042	0.022	0.071	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-04 WG2475924	0.446	0.126	0.221	0.020	0.066		-0.021	0.026	0.047	0.024	0.074	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-05 WG2475924	0.154	0.068	0.117	0.006	0.036		-0.009	0.017	0.029	0.015	0.054	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-06 WG2475924	0.091	0.062	0.103	0.014	0.056		-0.016	0.024	0.041	0.022	0.073	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-07 WG2475924	0.347	0.098	0.177	0.011	0.043		-0.021	0.023	0.043	0.022	0.064	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-08 WG2475924	0.464	0.122	0.264	0.019	0.061		-0.020	0.025	0.055	0.023	0.069	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-09 WG2475924	0.684	0.159	0.270	0.023	0.074		-0.016	0.024	0.041	0.022	0.071	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-10 WG2475924	0.223	0.099	0.167	0.025	0.078		-0.029	0.033	0.057	0.030	0.090	pCi/g	3/26/25	04/02/25	ZRG3837
L1834667-11 WG2475924	0.154	0.086	0.147	0.026	0.081		-0.014	0.023	0.041	0.021	0.071	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-01 WG2475924	0.213	0.095	0.169	0.021	0.072		-0.014	0.023	0.042	0.021	0.072	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-02 WG2475924	0.139	0.073	0.123	0.011	0.050		-0.019	0.026	0.045	0.024	0.077	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-03 WG2475924	0.090	0.071	0.110	0.026	0.081		-0.010	0.020	0.033	0.018	0.066	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-04 WG2475924	0.315	0.108	0.195	0.020	0.067		-0.018	0.025	0.045	0.023	0.072	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-05 WG2475924	0.148	0.076	0.126	0.017	0.061		-0.011	0.019	0.032	0.017	0.061	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-06 WG2475924	0.468	0.136	0.242	0.032	0.090		-0.038	0.036	0.066	0.033	0.093	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-07 WG2475924	1.697	0.300	0.543	0.034	0.108		-0.064	0.057	0.105	0.053	0.146	pCi/g	3/26/25	04/02/25	ZRG3837
L1835561-09 WG2475924	0.462	0.145	0.243	0.027	0.087		-0.006	0.016	0.028	0.015	0.062	pCi/g	3/26/25	04/02/25	ZRG3837
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/g	1/0/00	01/00/00	ZRG3837
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/g	1/0/00	01/00/00	ZRG3837
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/g	1/0/00	01/00/00	ZRG3837
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/g	1/0/00	01/00/00	ZRG3837

QC REPORT

WG2475924

Analyte	**Ra226**	Spike ID:	25B04944											
Matrix	SCM	Volume Spike Added:		1	ml	Uncert.								
		Activity of Spike:		5.00	pCi/ml	0.186								
							Acceptance Limits			LIMITS		LIMITS		Z-Data
							LOW	HIGH						
	RESULT	2^{σ} ERR	MDA	CSU	known	%REC			RPD		RER			
BLANK WG2475924	**0.024**	**0.047**	**0.076**	**0.070**										**0.68**
LCS WG2475924	**4.72**	**0.422**	**0.097**	**0.759**	**5.00**	**94.3%**	80%	120%						**0.71**
L1834667-08 WG2475924	**0.46**	**0.122**	**0.061**	**0.264**										
DUP L1834667-08 WG2475924	**0.36**	**0.106**	**0.065**	**0.184**					**24.6%**	20%	**0.629**	**3**		**0.62**
L1835561-05 WG2475924	**0.15**	**0.076**	**0.061**	**0.126**										
MS L1835561-05 WG2475924	**4.54**	**0.396**	**0.072**	**0.701**	**5.0**	**87.9%**	75%	125%						**1.61**
MSD L1835561-05 WG2475924	**4.32**	**0.394**	**0.065**	**0.672**	**4.9**	**84.6%**	75%	125%	**4.9%**	20%				

RADIUM 226 (Ra-226)

METHOD: SM-7500-RA-B (M)
SDG# WG2475924
ANALYST: ZRG3837

Ra-226 Peak Abundance (4.78KeV(94%), 4.60KeV(6%)) 100.0%

TR_1_BLANK_1_ 24K12850	1605	
TR_5_STD 4 24K12850	13988	
TR_6_STD 5 24K12850	13305	
TR_5_STD 4 24K12850	14081	
TR_6_STD 5 24K12850	13283	
TR_7_BLANK_2_ 24K12850	1557	
Average BKG =	1581	
Net Ba133 Tracer	12083	429
Vol Tracer (ml)	1	

LAB ID	SUB ID	SAMPLE DATE	PREP DATE	DATE COUNTED	DAYS	DF	Carrier ADDED(ML)	VOL (g)	MATRIX (NPW,SCM,BIO,F)	COUNT TIME	Ra226 area	bck cpm	Ra224 area	bck cpm	Ba133 COUNTS	DET #	EFF	uE	Cal. Ba-133 TRACER REC	Ba-133 TRACER REC	Flags
BLANK WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.000	SCM	200	4	0.008		0.012	12259	01	25.2%	0.9%	88.4%	88%	
LCS WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.000	SCM	200	491	0.019		0.021	12318	02	26.2%	1.1%	88.9%	89%	
MS L1835561-05 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.002	SCM	200	511	0.010		0.024	13428	03	25.7%	1.0%	98.0%	98%	
MSD L1835561-05 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.015	SCM	200	465	0.006		0.017	13293	04	24.6%	0.7%	96.9%	97%	
DUP L1834667-08 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.132	SCM	200	52	0.013		0.021	13742	09	27.1%	0.6%	100.0%	101%	
L1834667-01 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.008	SCM	200	109	0.004		0.003	13452	10	30.6%	0.4%	98.2%	98%	
L1834667-02 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.042	SCM	200	101	0.004		0.004	13639	11	27.9%	0.5%	99.8%	100%	
L1834667-03 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.039	SCM	200	62	0.006		0.010	12929	13	26.4%	0.7%	93.9%	94%	
L1834667-04 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.071	SCM	200	53	0.008		0.012	13184	01	25.2%	0.9%	96.0%	96%	
L1834667-05 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.021	SCM	200	20	0.001		0.006	13570	19	28.6%	0.4%	99.2%	99%	
L1834667-06 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.019	SCM	200	10	0.003		0.008	13018	20	24.1%	0.7%	94.7%	95%	
L1834667-07 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.047	SCM	200	51	0.004		0.015	14090	21	31.1%	1.0%	100.0%	104%	
L1834667-08 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.053	SCM	200	61	0.009		0.013	12944	23	29.0%	2.5%	94.0%	94%	
L1834667-09 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.013	SCM	200	77	0.010		0.009	13230	24	25.3%	0.7%	96.4%	96%	
L1834667-10 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.039	SCM	200	25	0.010		0.015	12787	25	24.1%	0.8%	92.7%	93%	
L1834667-11 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.035	SCM	200	18	0.011		0.007	13547	26	22.6%	1.1%	99.0%	99%	
L1835561-01 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.094	SCM	200	23	0.007		0.007	12462	27	23.2%	1.1%	90.1%	90%	
L1835561-02 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.016	SCM	200	15	0.002		0.010	12375	28	26.1%	0.4%	89.3%	89%	
L1835561-03 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.038	SCM	200	11	0.010		0.005	12616	29	23.7%	0.3%	91.3%	91%	
L1835561-04 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.078	SCM	200	37	0.008		0.010	12026	30	27.2%	1.1%	86.4%	86%	
L1835561-05 WG2475924			3/26/25 11:54	4/2/25 15:54		1.000	1.0	1.016	SCM	200	18	0.006		0.006	12379	32	28.2%	0.2%	89.4%	89%	
L1835561-06 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.069	SCM	200	56	0.019		0.021	12420	02	26.2%	1.1%	89.7%	90%	
L1835561-07 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.045	SCM	200	129	0.010		0.024	9159	03	25.7%	1.0%	62.7%	63%	
L1835561-09 WG2475924			3/26/25 11:54	4/2/25 23:18		1.000	1.0	1.006	SCM	200	45	0.010		0.003	12423	37	23.2%	0.8%	89.7%	90%	

Counted by GPC
PR - Poor Resolution
RC - Recount

Background and Efficiency

Ra226 area	bck cpm	DET	Apr-25 EFF	ERR		bck cpm	Poor Resolution (PR)			
	0.008	01	25.2%	0.9%		0.013	01	25.2%	0.9%	
	0.019	02	26.2%	1.1%		0.035	02	26.2%	1.1%	
	0.010	03	25.7%	1.0%		0.015	03	25.7%	1.0%	
	0.006	04	24.6%	0.7%		0.012	04	24.6%	0.7%	
		5					5			
		6					6			
		7					7			
		8					8			
	0.013	09	27.1%	0.6%		0.019	09	27.1%	0.6%	
	0.004	10	30.6%	0.4%		0.010	10	30.6%	0.4%	
	0.004	11	27.9%	0.5%		0.011	11	27.9%	0.5%	
		12					12			
	0.006	13	26.4%	0.7%		0.015	13	26.4%	0.7%	
	0.013	14	25.4%	0.9%		0.020	14	25.4%	0.9%	
		15					15			
		16					16			
		17					17			
		18					18			
	0.001	19	28.6%	0.4%		0.005	19	28.6%	0.4%	
	0.003	20	24.1%	0.7%		0.008	20	24.1%	0.7%	
	0.004	21	31.1%	1.0%		0.007	21	31.1%	1.0%	
		22					22			
	0.009	23	29.0%	2.5%		0.012	23	29.0%	2.5%	
	0.010	24	25.3%	0.7%		0.015	24	25.3%	0.7%	
	0.010	25	24.1%	0.8%		0.030	25	24.1%	0.8%	
	0.011	26	22.6%	1.1%		0.018	26	22.6%	1.1%	
	0.007	27	23.2%	1.1%		0.014	27	23.2%	1.1%	
	0.002	28	26.1%	0.4%		0.012	28	26.1%	0.4%	
	0.010	29	23.7%	0.3%		0.019	29	23.7%	0.3%	
	0.008	30	27.2%	1.1%		0.020	30	27.2%	1.1%	
		31	28.5%	1.3%			31	28.5%	1.3%	
	0.006	32	28.2%	0.2%		0.010	32	28.2%	0.2%	
	0.007	33	23.1%	0.6%	**A-4-1A**	0.020	33	23.1%	0.6%	**A-4-1A**
	0.005	34	21.3%	1.5%	**A-4-1B**	0.010	34	21.3%	1.5%	**A-4-1B**
	0.018	35	21.4%	0.8%	**A-4-2A**	0.030	35	21.4%	0.8%	**A-4-2A**
	0.015	36	22.8%	0.5%	**A-4-2B**	0.020	36	22.8%	0.5%	**A-4-2B**
	0.010	37	23.2%	0.8%	**A-4-3A**	0.013	37	23.2%	0.8%	**A-4-3A**
	0.009	38	21.7%	0.9%	**A-4-3B**	0.022	38	21.7%	0.9%	**A-4-3B**
	0.007	39	22.9%	0.7%	**A-4-4A**	0.012	39	22.9%	0.7%	**A-4-4A**
	0.003	40	22.9%	0.4%	**A-4-4B**	0.008	40	22.9%	0.4%	**A-4-4B**
	0.007	41	22.2%	1.3%	**A-4-5A**	0.011	41	22.2%	1.3%	**A-4-5A**
	0.006	42	22.8%	0.9%	**A-4-5B**	0.012	42	22.8%	0.9%	**A-4-5B**
	0.011	43	23.5%	0.7%	**A-4-6A**	0.017	43	23.5%	0.7%	**A-4-6A**
	0.003	44	20.9%	0.3%	**A-4-6B**	0.009	44	20.9%	0.3%	**A-4-6B**
		45			**A-1-1A**		45			**A-1-1A**
		46			**A-1-1B**		46			**A-1-1B**
		47			**A-1-2A**		47			**A-1-2A**
		48			**A-1-2B**		48			**A-1-2B**
		49			**A-1-3A**		49			**A-1-3A**
		50			**A-1-3B**		50			**A-1-3B**
	0.003	51	24.01%	0.78%	**A-1-4A**	0.007	51	24.01%	0.78%	**A-1-4A**
	0.004	52	23.52%	0.85%	**A-1-4B**	0.023	52	23.52%	0.85%	**A-1-4B**
		53	22.91%	0.77%	**A-1-5A**		53	22.91%	0.77%	**A-1-5A**
		54	26.16%	0.83%	**A-1-5B**		54	26.16%	0.83%	**A-1-5B**
	0.004	55	25.34%	1.37%	**A-1-6A**	0.016	55	25.34%	1.37%	**A-1-6A**
	0.003	56	24.23%	0.90%	**A-1-6B**	0.005	56	24.23%	0.90%	**A-1-6B**

Background and Efficiency

	0.001	57	26.52%	0.92%	**A-2-1A**	0.014	57	26.52%	0.92%	**A-2-1A**
	0.002	58	28.64%	1.02%	**A-2-1B**	0.007	58	28.64%	1.02%	**A-2-1B**
		59	26.71%	0.97%	**A-2-2A**		59	26.71%	0.97%	**A-2-2A**
		60			**A-2-3B**		60			**A-2-3B**
	0.005	61	26.89%	0.94%	**A-2-3A**	0.010	61	26.89%	0.94%	**A-2-3A**
	0.001	62	26.70%	0.81%	**A-2-3B**	0.008	62	26.70%	0.81%	**A-2-3B**
		63			**A-2-3A**		63			**A-2-3A**
		64			**A-2-3B**		64			**A-2-3B**
	0.002	65	26.87%	0.87%	**A-2-5A**	0.008	65	26.87%	0.87%	**A-2-5A**
	0.004	66	26.83%	0.87%	**A-2-5B**	0.037	66	26.83%	0.87%	**A-2-5B**
	0.001	67	26.95%	0.97%	**A-2-6A**	0.020	67	26.95%	0.97%	**A-2-6A**
	0.004	68	26.76%	0.88%	**A-2-6B**	0.006	68	26.76%	0.88%	**A-2-6B**
	0.002	69	27.94%	0.98%	**A-3-1A**	0.003	69	27.94%	0.98%	**A-3-1A**
	0.001	70	27.80%	0.89%	**A-3-1B**	0.005	70	27.80%	0.89%	**A-3-1B**
	0.001	71	23.71%	0.80%	**A-3-2A**	0.003	71	23.71%	0.80%	**A-3-2A**
	0.001	72	25.74%	0.20%	**A-3-2B**	0.001	72	25.74%	0.20%	**A-3-2B**
		73			**A-3-3A**		73			**A-3-3A**
		74			**A-3-3B**		74			**A-3-3B**
	0.001	75	28.00%	0.84%	**A-3-4A**	0.014	75	28.00%	0.84%	**A-3-4A**
	0.001	76	27.92%	0.98%	**A-3-4B**	0.003	76	27.92%	0.98%	**A-3-4B**
	0.013	77	27.23%	0.86%	**A-3-5A**	0.022	77	27.23%	0.86%	**A-3-5A**
	0.001	78	26.93%	0.73%	**A-3-5B**	0.004	78	26.93%	0.73%	**A-3-5B**
	0.002	79	26.31%	0.81%	**A-3-6A**	0.005	79	26.31%	0.81%	**A-3-6A**
	0.001	80	25.90%	1.00%	**A-3-6B**	0.004	80	25.90%	1.00%	**A-3-6B**

CERTIFICATES

SOURCE	LOT	PACE ID	Exp. Date
Ra-226	No.3613	25B04944	Jan-26
Ba-133	2455-48	25C03249	Sep-26

DECAY CALCUALTION

Ra226 Source
No.3613

ACTIVITY FORMULA A = Ao(e^^-NT)

ml HCl 41.6667
25B04944

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 08-Apr-24
DATE OF CALIBRATION 26-Mar-25

Ao =	588.69	pCi/ml
N =	0.00	
T(1/2) =	1600.00	years
T =	0.97	years
Standard Volume =	8.500	
Final Volume =	1000.00	
dilution =	117.65	
A =	588.45	pCi/ml
A =	11.10	dpm/ml
A =	5.00	pCi/ml
A =	**5.00**	pCi/ml
Uncertainty	3.70%	
Weight	0.00%	
Volume (1000 ml)	0.03%	
Volume (100 ml Aliquot)	0.40%	
Volume (1000 ml)	0.03%	
CSU	3.72%	

Activity 5.00 +/- 0.186 pCi/ml

Amersham International
Amersham Laboratories

ESC37429

Certificate of calibration of radioactive reference solution

M 29913

NAMAS
CALIBRATION
No. 0546

Description	Principal radionuclide: Radium-226	Product code:	RAY.24
		Solution number:	R4/131/127
Measurement	Reference time:	1200 GMT on 19 February 1998	
	Radioactive concentration of radium-226:	4.376	kilobecquerels per gram of solution
	which is equivalent to:	118.3	nanocuries per gram of solution
	Mass of solution:	5.0345	grams
	Total activity of radium-226:	22.03	kilobecquerels
	which is equivalent to:	595.4	nanocuries
	Recommended half life:	1600.00	years

Method of measurement:
The activity of the solution was measured in a high pressure re-entrant ionisation chamber calibrated with a large number of absolutely standardised solutions.

Accuracy: Overall uncertainty in the radioactive concentration quoted above: ± 3.7 %

Random uncertainty: ± 0.7 % Systematic uncertainty: ± 3.0 %

The limits of overall uncertainty were taken as the arithmetic sum of the uncertainty due to random variations, calculated at the 99.7% confidence level, and the estimated systematic uncertainties in the measurement.

Radionuclidic Purity: The estimated activities of any radioactive impurities found by high-resolution gamma ray spectrometry, or in any other examination of the solution, are listed below expressed as percentages of the activity of the principal radionuclide at the reference time.

Chemical Composition: Carrier free in 0.5M HCl

Remarks: At the reference date radium-226 was shown to be in radioactive equilibrium with its daughter nuclides down the decay chain to polonium-214 and thallium-210, the precursors of lead-210. The ionisation chamber was calibrated using a standard supplied by the National Institute of Standards and Technology, Washington DC, USA.

This product meets the quality assurance requirements of the NRC Regulatory Guide 4.15 for achieving implicit NIST traceability as defined in NCRP 58 (1985).

Approved signatory: B D D Singleton

RECEIVED
APR 0 2 1998

Page 1 of 1

Amersham
The Health Science Group

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Source: Ba-133
Lot No. 2455-48
ID: **25C03249**

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

24K12827	250mL	Ba133 STOCK
24L04881	10mL	Hydrochloric Acid
	740mL	DI Water

DATE OF ORIGINATION 12-Nov-24
DATE OF CALIBRATION 26-Mar-25

Ao =	9895.67	pCi
N =	0.07	
T(1/2) =	10.50	years
T =	0.37	years
Std Volume	250.00	
Final Volume	1000.00	
dilution =	4.00	

A =	9658	pCi
A =	5360	dpm/ml
A =	2414	pCi/ml

Eckert & Ziegler
Isotope Products

24937 Avenue Tibbitts
Valencia, California 91355

Tel 661 309 1010
Fax 661 257 8303

ESC58780

Rad
1 x 5 mL

NOMINAL LIQUID SOURCE DATA SHEET

Customer: Pace Analytical

Date: 14-Aug-24

P.O. Number: 0155141

Catalog No.: 6133

Quantity: 1

Source No.	Nuclide	Activity	Spec. Act.	Ref. Date	Conc.
2455-48	Ba-133	10 µCi 370 kBq	Not determined	15-Sep-24	2 µCi / mL 74 kBq / mL

Volume: 5 mL

Chemical Form: $BaCl_2$ in 0.1M HCl

Radionuclidic Purity: > 99 %

Carrier: 10 µg Ba / mL

Leak Test Information is on the reverse side.

Impurities: None detected

Remarks: 5 mL FSA

Precaution: This container must not be opened until adequate health and safety measures are taken (such as placed in a hood, glove box, cell) to protect the user from excessive exposure to the body as a result of radiation and/or contamination. This material has not been sterilized or tested for pyrogenicity. For laboratory or manufacturing use only.

Lab Book-Page: 2455-48

L Rousselle 23Aug24
Signature, Date

RA-226 Solids Radiochemistry Prep Benchsheet

Batch: WG2475924

Analyst: LAG4246 **Prep Start Date/Time:** 03/26/25 11:54-11:56 **Prep End Date/Time:** 04/01/25 12:12-04/04/25 11:51 **Method:** SM7500Ra B (M)
SOP: ENV-SOP-MTJL-0328 **Bal ID:** RADBAL1 **Pipet ID:** E-11, E-14 **Stirrer ID:** St38, St45, St46 **Filter Lot #:** 0000335026 **Hot Plate ID:** G113, G114
Centrifuge ID: C7 **Centrifuge Tube Lot:** 920138 **Filter Lot#:** na **Transfer Pipet Lot:** 24180063 **1mL Pipet Tip Lot:** 2243 **2mL Pipet Tip Lot:** 2418
10mL e-Pipet Tip Lot: 2332 **10mL Manual Pipet Tip Lot:** P7601073 **pH Lot:** 10BDH40241

Ba-133 Tracer: 25C03249 Amt. Used: 1 mL Exp. Date:09/12/26 **Ra-226 Spike:** 25B04944 Amt. Used: 1 mL Exp. Date:01/27/26
0.2 mg/mL Barium Carrier: 25A29358 Amt. Used: 1 Exp. Date:05/31/25 **100mg/mL Lead Nitrate Carrier:** 25B27887 Amt. Used: 2 Exp. Date:02/27/26
Phenolphthalein Indicator: 24K27060 Amt. Used: 0.50 Exp. Date:11/27/25 **1M Citric Acid:** 25C25802 Amt. Used: 5 Exp. Date:09/30/25
50% Ammonium Sulfate: 25C25803 Amt. Used: 11 Exp. Date:03/25/26 **Ammonium Hydroxide:** 25B25399 Amt. Used: 5 Exp. Date:08/25/26
Methyl Orange: 25A31571 Amt. Used: 0.50 Exp. Date:03/08/26 **1:1 H2SO4:** 25C24609 Amt. Used: 5 Exp. Date:03/24/26
0.25M EDTA: 25C24610 Amt. Used: 10 Exp. Date:03/24/26 **5N Ammonium Hydroxide:** 25C17498 Amt. Used: 3 Exp. Date:03/17/26
Bromocresol Green: 24L05046 Amt. Used: 0.50 Exp. Date:12/05/25 **Acetic Acid:** 25A06034 Amt. Used: 3 Exp. Date:06/19/26
Nitric Acid: 25C19814 Amt. Used: 20 Exp. Date:09/19/29 **HCl:** 25C26982 Amt. Used: 20 Exp. Date:10/07/26

Sample Number	Sample Weight (g)	Precipitation Time	Review Analyst	Review Date
BLANK	1	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
LCS	1	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
MS(L1835561-05)	1.002	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
MSD(L1835561-05)	1.015	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
DUP(L1834667-08)	1.132	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
1. L1834667-01	1.008	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
2. L1834667-02	1.042	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
3. L1834667-03	1.039	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
4. L1834667-04	1.071	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
5. L1834667-05	1.021	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
6. L1834667-06	1.019	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
7. L1834667-07	1.047	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
8. L1834667-08	1.053	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
9. L1834667-09	1.013	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
10. L1834667-10	1.039	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
11. L1834667-11	1.035	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
12. L1835561-01	1.094	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
13. L1835561-02	1.016	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
14. L1835561-03	1.038	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
15. L1835561-04	1.078	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
16. L1835561-05	1.016	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
17. L1835561-06	1.069	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
18. L1835561-07	1.045	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43
19. L1835561-09	1.006	4/1/2025 10:19	ZRG3837	04/04/25 11:51:43

Comments:

Reviewed By:ZRG3837 on 04/04/25 11:51:43

Pace Analytical®
National Center for Testing & Innovation

ALPHA SPEC RUN LOG

SDG: R2475924 Sample Order Verified IJM3838

SDG SUB ID	SAMPLE ID	COUNT DATE / TIME	DET #	ANALYTE	COUNT TIME MIN	FILENAME (DDGXXXYY)	ANALYST	COMMENTS
1	BLANK WG2475924	4/2/25 15:54	01	R	200	R 01 2475924 01	IJM3838	
2	LCS WG2475924	4/2/25 15:54	02	R	200	R 02 2475924 02	IJM3838	
3	MS L1835561-05 WG2475924	4/2/25 15:54	03	R	200	R 03 2475924 03	IJM3838	
4	MSD L1835561-05 WG2475924	4/2/25 15:54	04	R	200	R 04 2475924 04	IJM3838	
5	DUP L1834667-08 WG2475924	4/2/25 15:54	09	R	200	R 09 2475924 05	IJM3838	
6	L1834667-01 WG2475924	4/2/25 15:54	10	R	200	R 10 2475924 06	IJM3838	
7	L1834667-02 WG2475924	4/2/25 15:54	11	R	200	R 11 2475924 07	IJM3838	
8	L1834667-03 WG2475924	4/2/25 15:54	13	R	200	R 13 2475924 08	IJM3838	
9	L1834667-04 WG2475924	4/2/25 23:18	01	R	200	R 01 2475924 09	IJM3838	
10	L1834667-05 WG2475924	4/2/25 15:54	19	R	200	R 19 2475924 10	IJM3838	
11	L1834667-06 WG2475924	4/2/25 15:54	20	R	200	R 20 2475924 11	IJM3838	
12	L1834667-07 WG2475924	4/2/25 23:18	21	R	200	R 21 2475924 12	IJM3838	High Voltage Was Not On. Recounted
13	L1834667-08 WG2475924	4/2/25 23:18	23	R	200	R 23 2475924 13	IJM3838	High Voltage Was Not On. Recounted
14	L1834667-09 WG2475924	4/2/25 23:18	24	R	200	R 24 2475924 14	IJM3838	High Voltage Was Not On. Recounted
15	L1834667-10 WG2475924	4/2/25 15:54	25	R	200	R 25 2475924 15	IJM3838	
16	L1834667-11 WG2475924	4/2/25 15:54	26	R	200	R 26 2475924 16	IJM3838	
17	L1835561-01 WG2475924	4/2/25 15:54	27	R	200	R 27 2475924 17	IJM3838	
18	L1835561-02 WG2475924	4/2/25 15:54	28	R	200	R 28 2475924 18	IJM3838	
19	L1835561-03 WG2475924	4/2/25 15:54	29	R	200	R 29 2475924 19	IJM3838	
20	L1835561-04 WG2475924	4/2/25 15:54	30	R	200	R 30 2475924 20	IJM3838	
21	L1835561-05 WG2475924	4/2/25 15:54	32	R	200	R 32 2475924 21	IJM3838	
22	L1835561-06 WG2475924	4/2/25 23:18	02	R	200	R 02 2475924 22	IJM3838	
23	L1835561-07 WG2475924	4/2/25 23:18	03	R	200	R 03 2475924 23	IJM3838	
24	L1835561-09 WG2475924	4/2/25 23:18	37	R	200	R 37 2475924 24	IJM3838	
25				R	200	R 0 2475924 25	IJM3838	
26						R 0 2475924 26	IJM3838	

FILENAME EXAMPLE: R12126111116

R = ANALYSIS RADIUM 226
12 = DETECTOR
1261111 = WG
16 = BATCH SUB

T= THORIUM
R = RADIUM
U = URANIUM

P = PLUTONIUM
A = AMERICIUM

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R01247592401.CNF

Report Generated On : 4/4/2025 11:34:40 AM

Sample Title : BLANK WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:03 PM

Live Time : 12001.0 seconds
Real Time : 12001.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

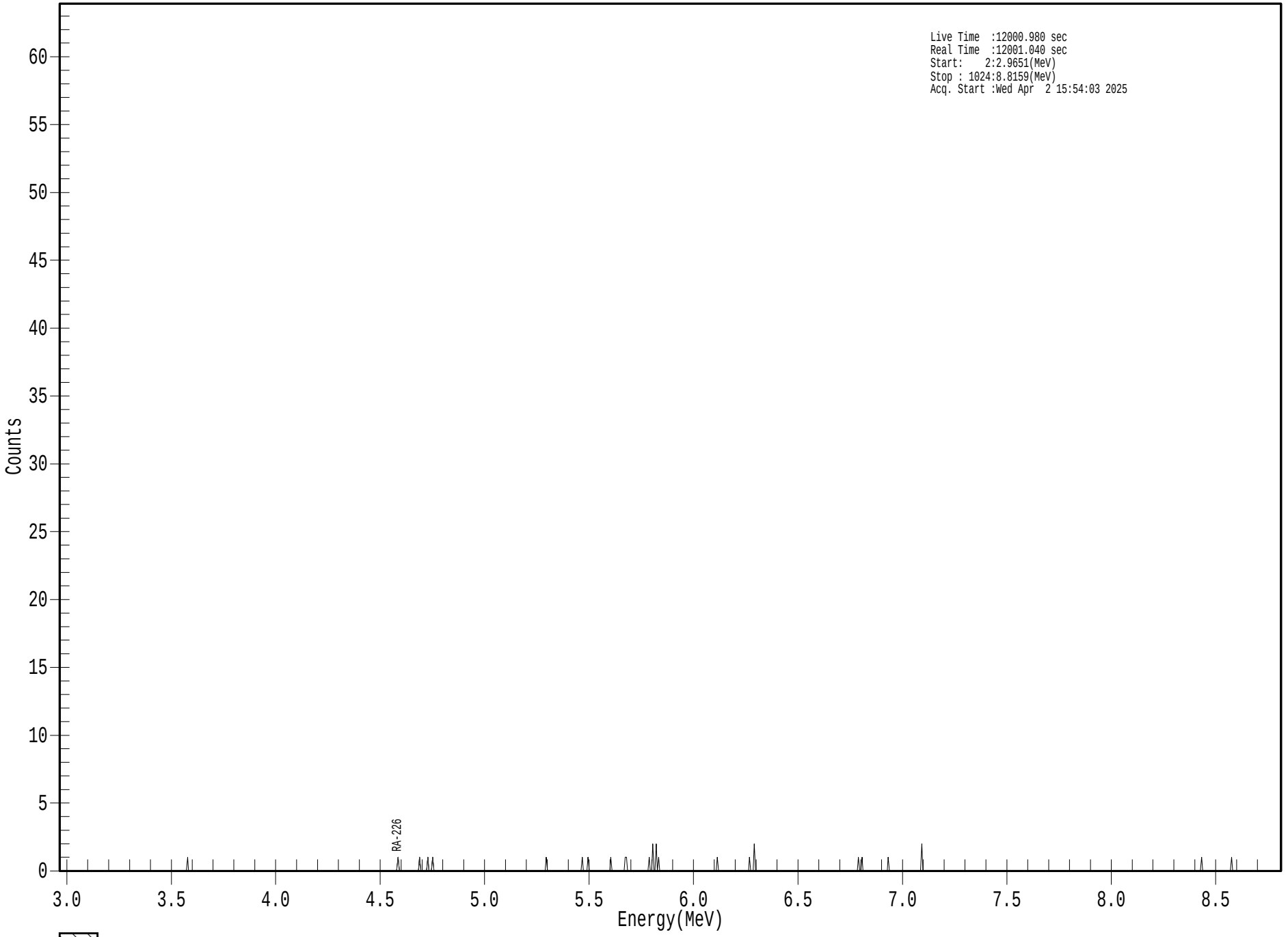
Detector Name: DET01
Sample Title: BLANK WG2475924
Peak Analysis Performed on: 4/4/2025 11:34:40 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	192-	324	303.00	4688.27	5.72	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R01247592401.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R02247592402.CNF

Report Generated On : 4/4/2025 11:35:18 AM

Sample Title : LCS WG24735924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:05 PM

Live Time : 12000.4 seconds
Real Time : 12000.5 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

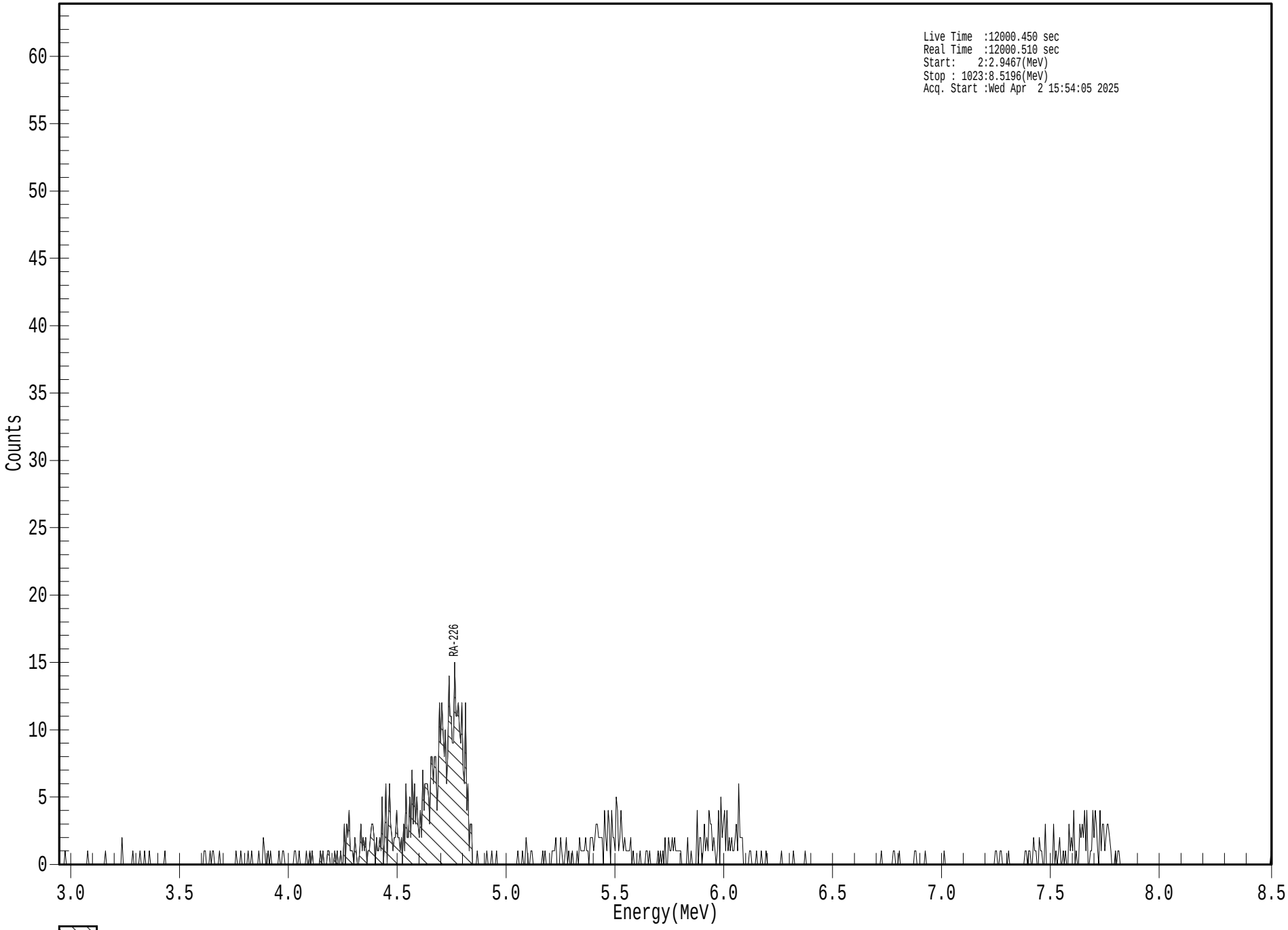
Detector Name: DET02
Sample Title: LCS WG24735924
Peak Analysis Performed on: 4/4/2025 11:35:18 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	212-	353	312.71	4642.65	71.78	4.91E+02	22.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R02247592402.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R03247592403.CNF

Report Generated On : 4/4/2025 11:35:46 AM

Sample Title : MS L1835561-05 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:07 PM

Live Time : 12000.9 seconds
Real Time : 12001.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

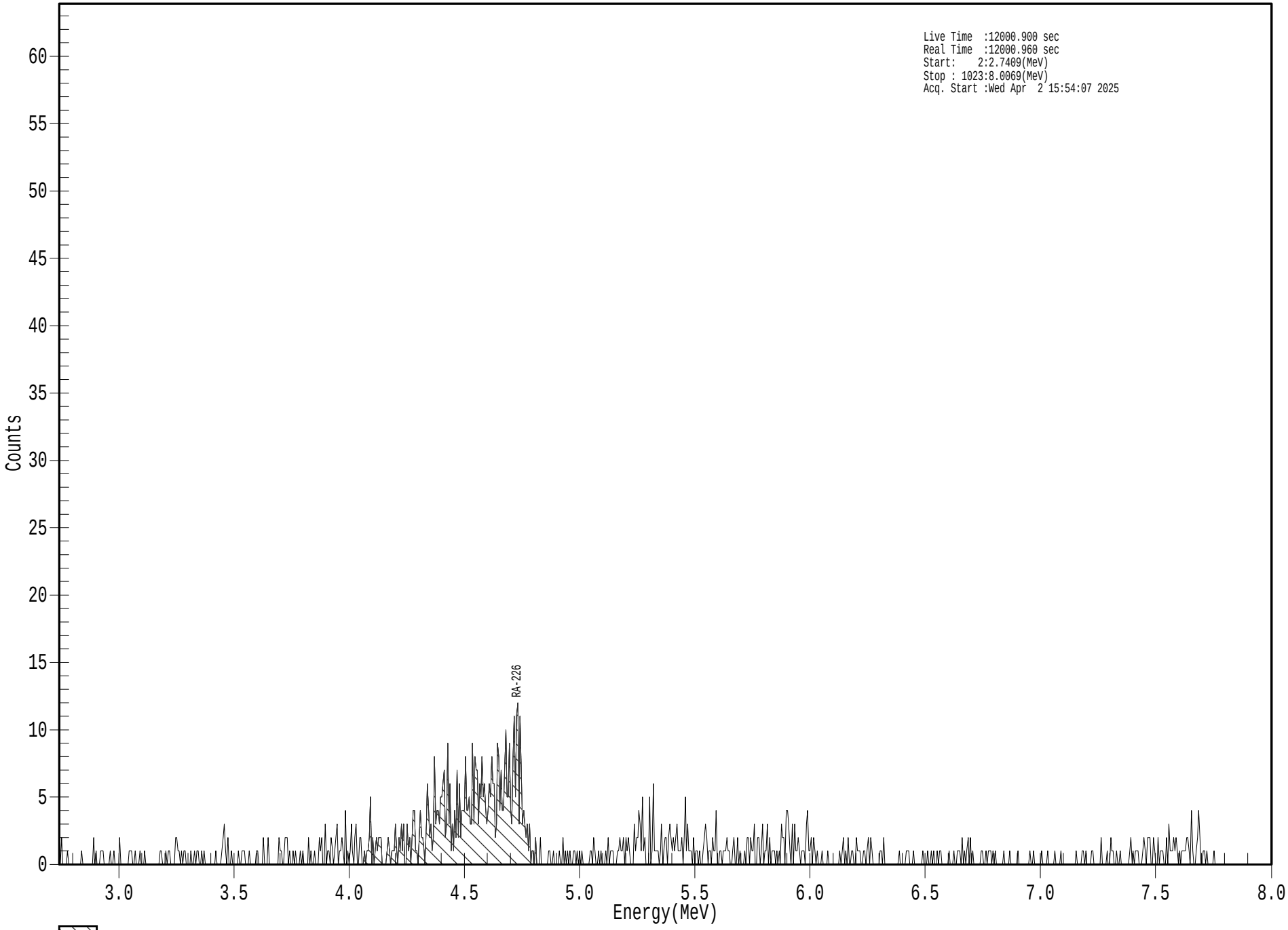
Detector Name: DET03
Sample Title: MS L1835561-05 WG2475924
Peak Analysis Performed on: 4/4/2025 11:35:46 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	258-	405	348.17	4526.33	12.89	5.11E+02	22.61	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R03247592403.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R04247592404.CNF

Report Generated On : 4/4/2025 11:36:26 AM

Sample Title : MSD L1835561-05 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:08 PM

Live Time : 12000.7 seconds
Real Time : 12000.7 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

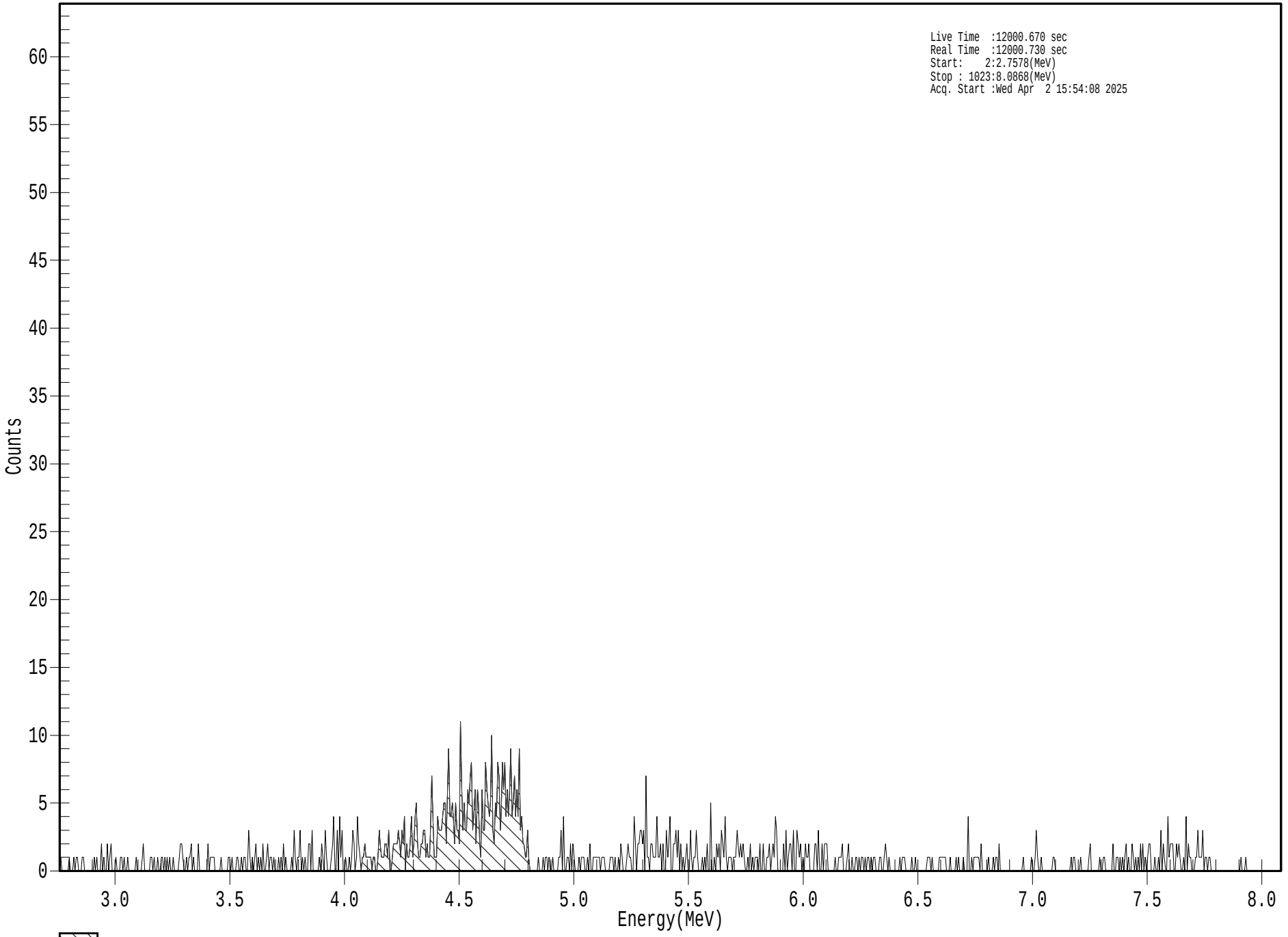
Detector Name: DET04
Sample Title: MSD L1835561-05 WG2475924
Peak Analysis Performed on: 4/4/2025 11:36:26 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	254-	395	340.66	4525.41	9.28	4.65E+02	21.56	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R04247592404.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R09247592405.CNF

Report Generated On : 4/4/2025 11:36:46 AM

Sample Title : DUP L1834667-08 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:11 PM

Live Time : 12000.2 seconds
Real Time : 12000.3 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

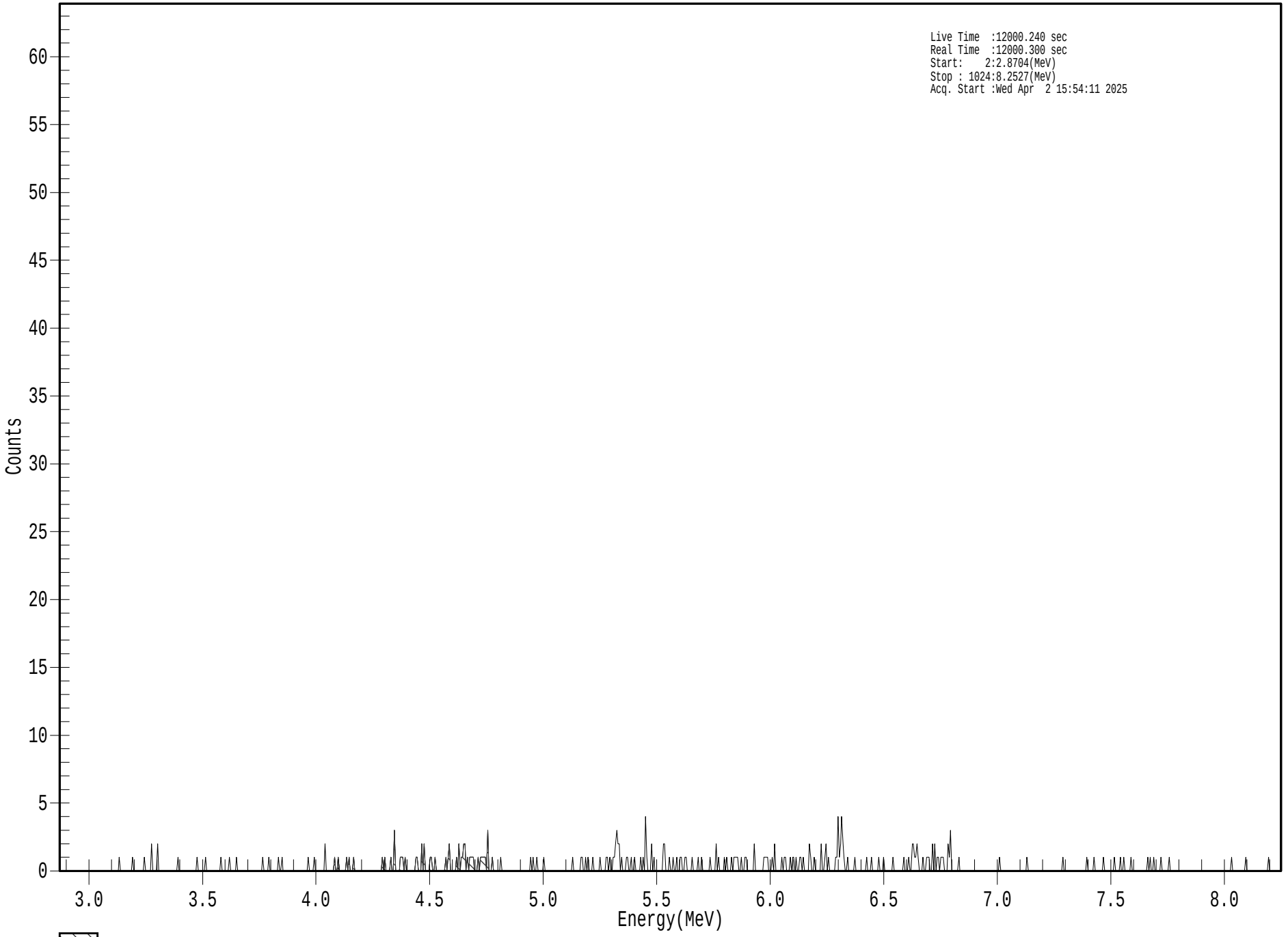
Detector Name: DET09
Sample Title: DUP L1834667-08 WG2475924
Peak Analysis Performed on: 4/4/2025 11:36:46 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	226-	370	316.37	4526.01	5.27	5.20E+01	7.21	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R09247592405.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R10247592406.CNF

Report Generated On : 4/4/2025 11:37:06 AM

Sample Title : L1834667-01 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:13 PM

Live Time : 12000.1 seconds
Real Time : 12000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

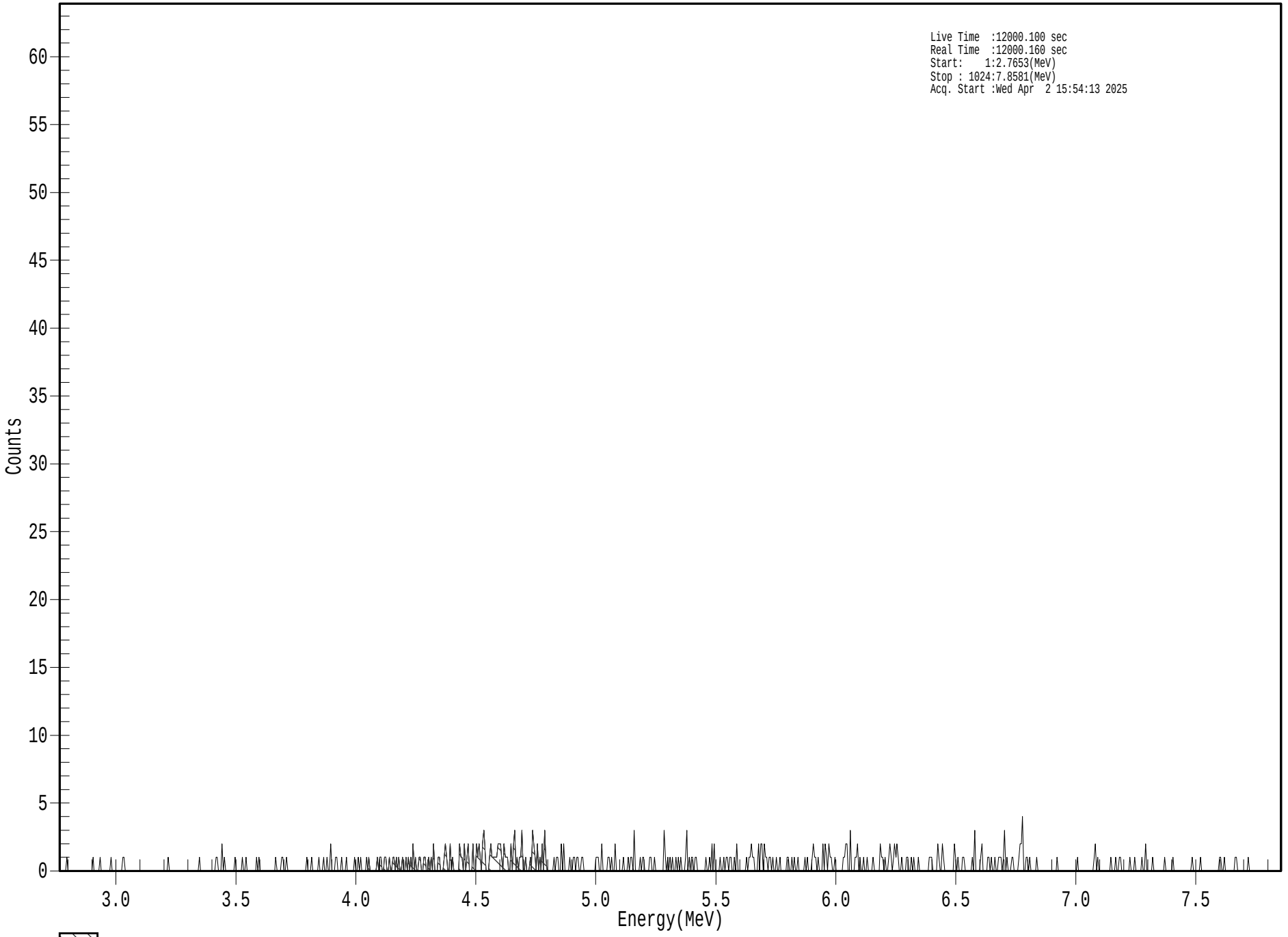
Detector Name: DET10
Sample Title: L1834667-01 WG2475924
Peak Analysis Performed on: 4/4/2025 11:37:06 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	259-	412	348.48	4495.16	12.45	1.09E+02	10.44	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R10247592406.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R11247592407.CNF

Report Generated On : 4/4/2025 11:37:25 AM

Sample Title : L1834667-02 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:14 PM

Live Time : 12000.1 seconds
Real Time : 12000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

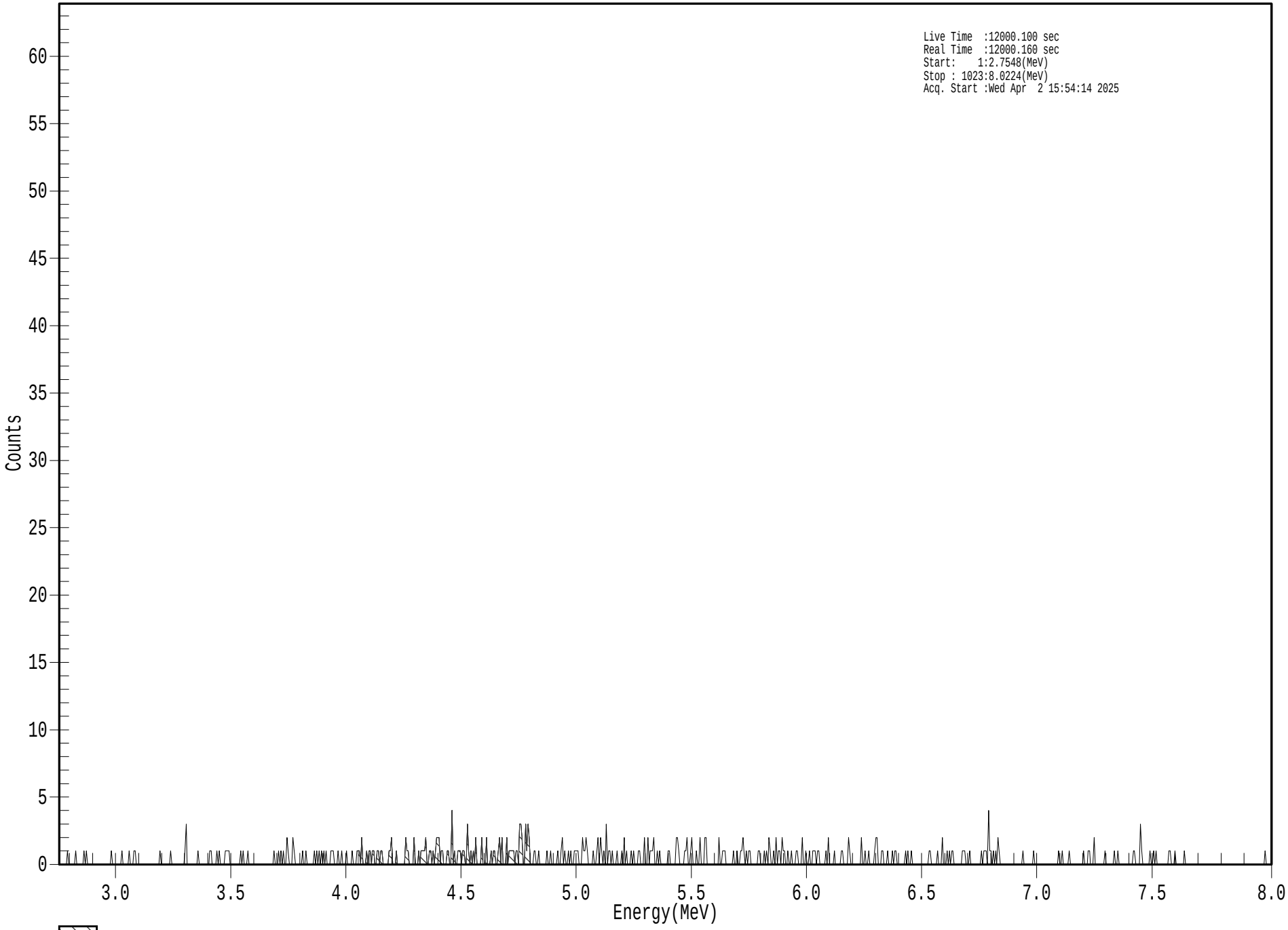
Detector Name: DET11
Sample Title: L1834667-02 WG2475924
Peak Analysis Performed on: 4/4/2025 11:37:25 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	253-	400	335.61	4479.50	5.15	1.01E+02	10.05	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R11247592407.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R13247592408.CNF

Report Generated On : 4/4/2025 11:37:43 AM

Sample Title : L1834667-03 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:16 PM

Live Time : 12000.3 seconds
Real Time : 12000.3 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

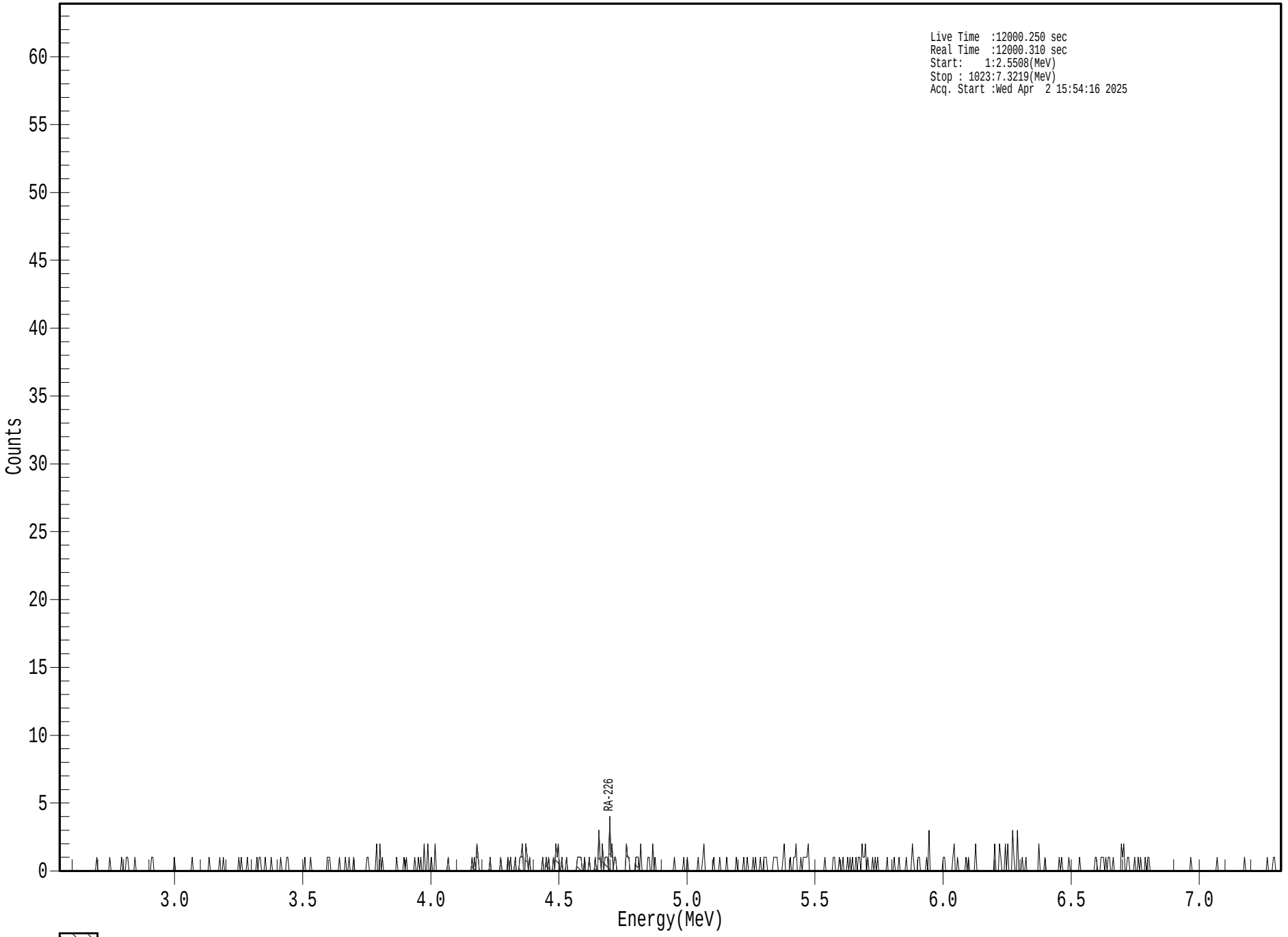
Detector Name: DET13
Sample Title: L1834667-03 WG2475924
Peak Analysis Performed on: 4/4/2025 11:37:43 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	322-	485	424.34	4527.15	5.45	6.20E+01	7.87	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R13247592408.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R01247592409.CNF

Report Generated On : 4/4/2025 11:38:00 AM

Sample Title : L1834667-04 WG2480102
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:18 PM

Live Time : 12000.3 seconds
Real Time : 12000.4 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

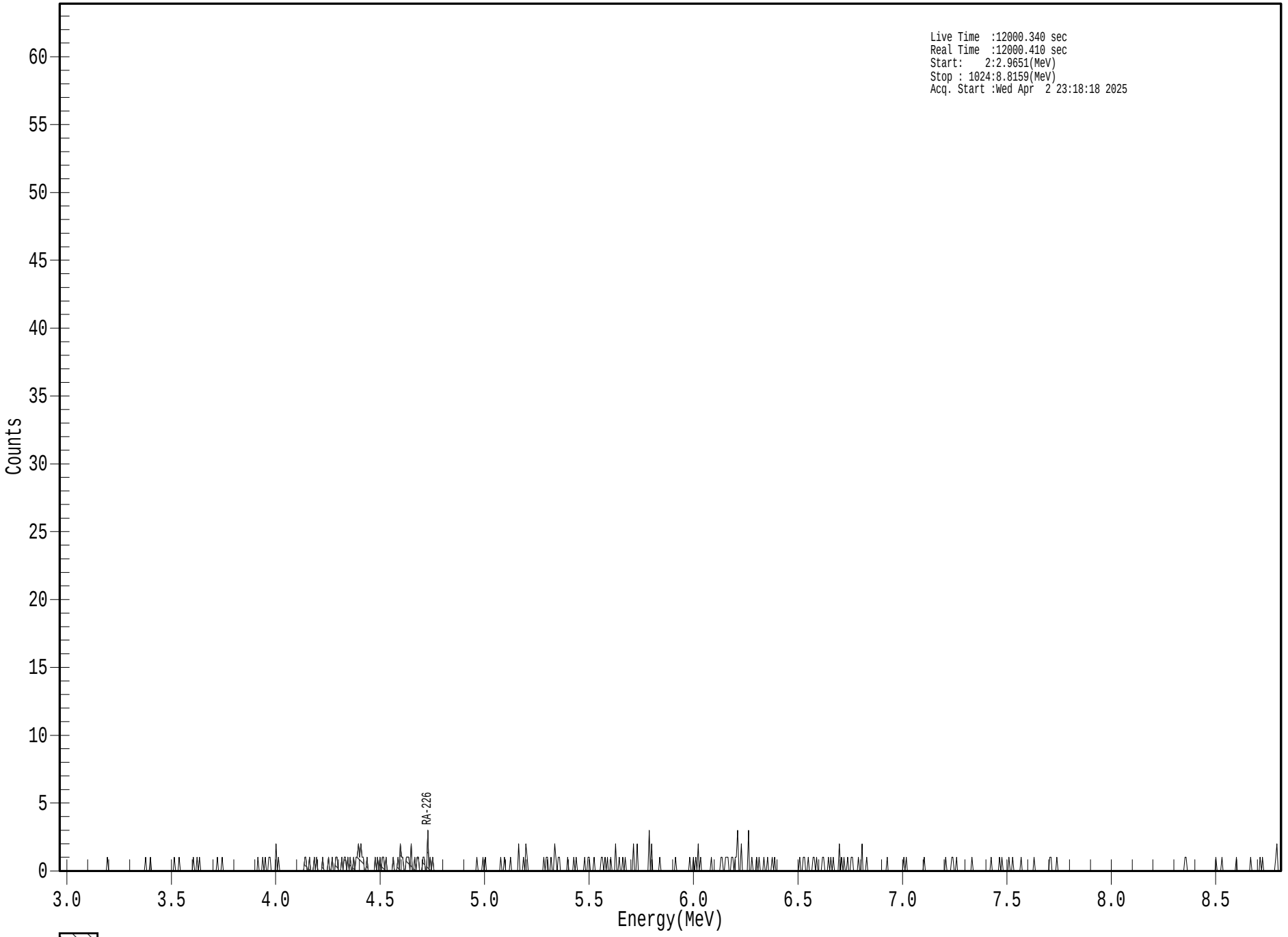
Detector Name: DET01
Sample Title: L1834667-04 WG2480102
Peak Analysis Performed on: 4/4/2025 11:38:00 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	192-	324	265.62	4474.29	5.72	5.30E+01	7.28	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R01247592409.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R19247592410.CNF

Report Generated On : 4/4/2025 11:38:21 AM

Sample Title : L1834667-05 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:20 PM

Live Time : 12000.5 seconds
Real Time : 13617.1 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

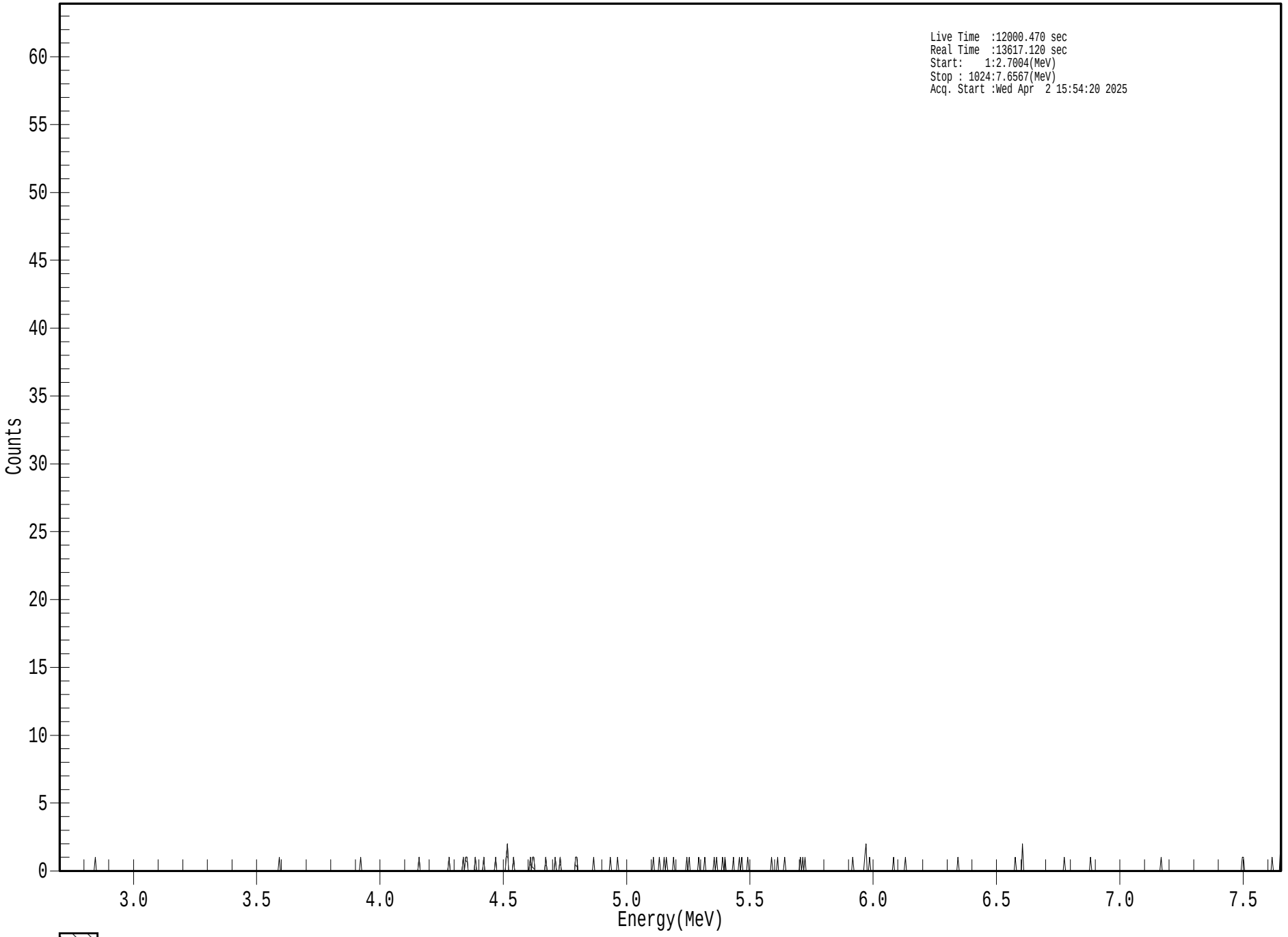
Detector Name: DET19
Sample Title: L1834667-05 WG2475924
Peak Analysis Performed on: 4/4/2025 11:38:21 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	280-	436	376.55	4519.92	7.27	2.00E+01	4.47	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R19247592410.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R20247592411.CNF

Report Generated On : 4/4/2025 11:38:39 AM

Sample Title : L1834667-06 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:22 PM

Live Time : 12000.2 seconds
Real Time : 13617.1 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

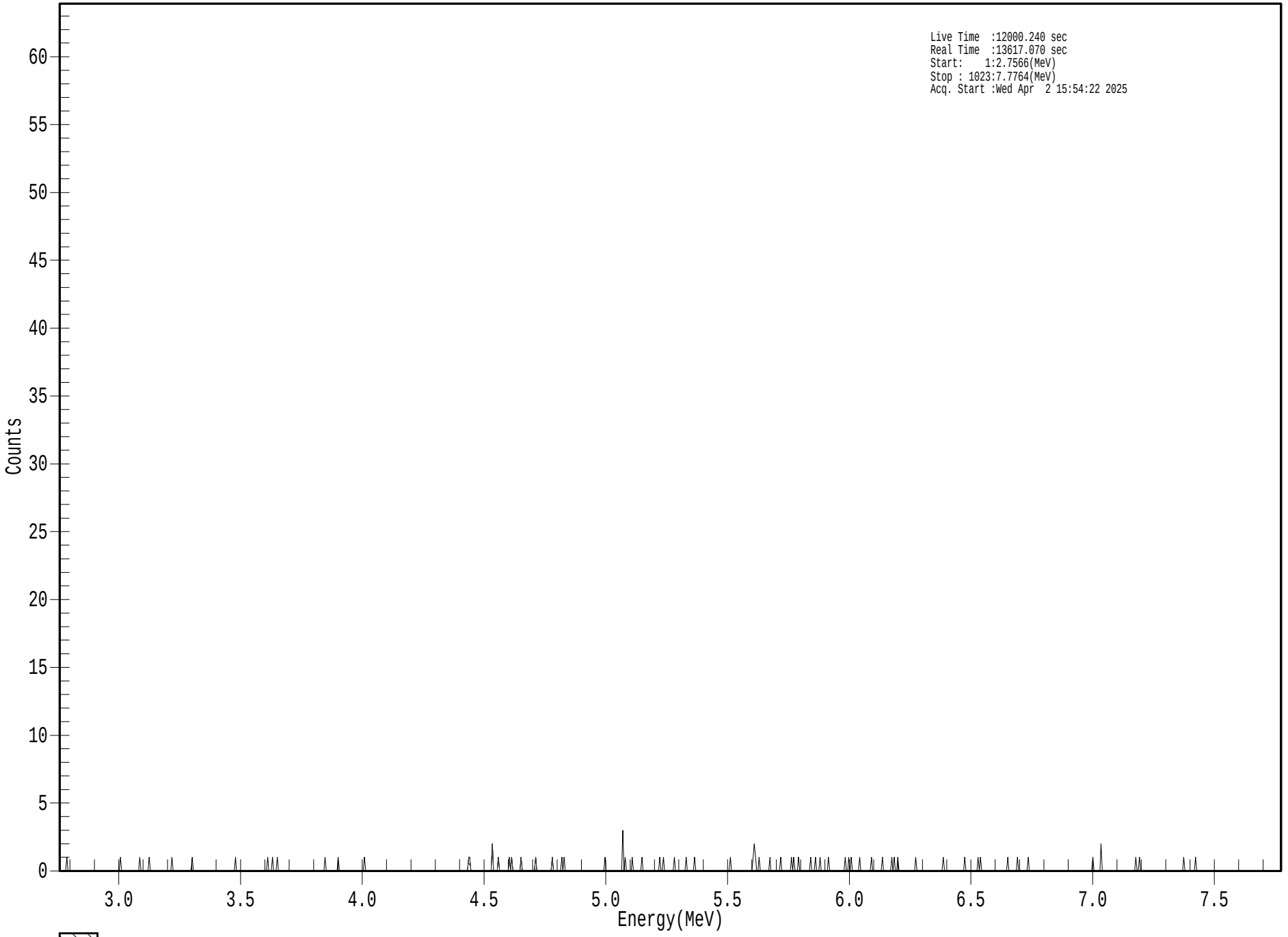
Detector Name: DET20
Sample Title: L1834667-06 WG2475924
Peak Analysis Performed on: 4/4/2025 11:38:39 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	265-	419	373.60	4586.74	4.91	1.00E+01	3.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R20247592411.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R21247592412.CNF

Report Generated On : 4/4/2025 11:38:59 AM

Sample Title : L1834667-07 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:35 PM

Live Time : 12000.5 seconds
Real Time : 12000.7 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

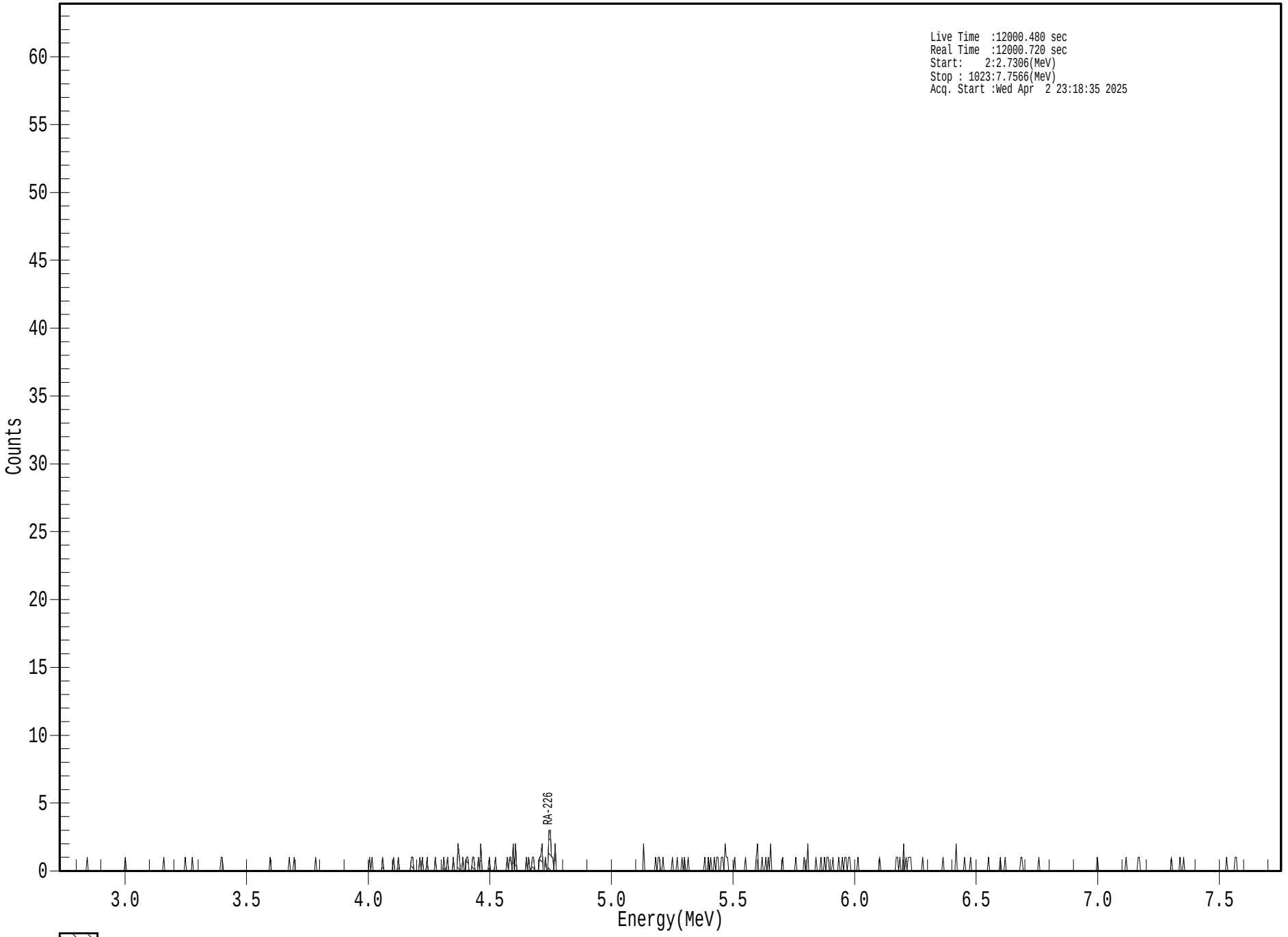
Detector Name: DET21
Sample Title: L1834667-07 WG2475924
Peak Analysis Performed on: 4/4/2025 11:38:59 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	270-	424	363.75	4511.34	11.08	5.10E+01	7.14	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R21247592412.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R23247592413.CNF

Report Generated On : 4/4/2025 11:39:25 AM

Sample Title : L1834667-08 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:36 PM

Live Time : 12000.3 seconds
Real Time : 12000.5 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

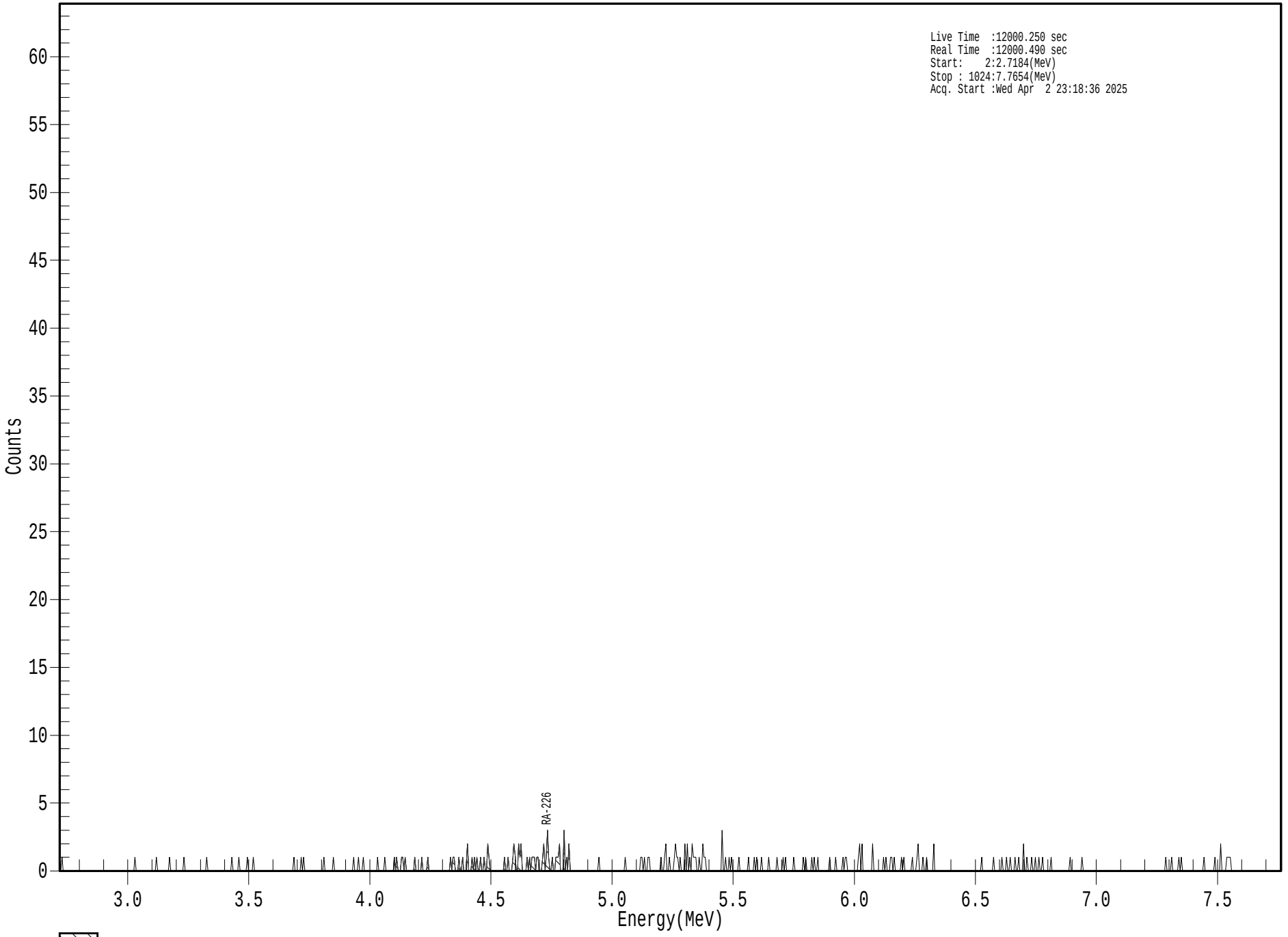
Detector Name: DET23
Sample Title: L1834667-08 WG2475924
Peak Analysis Performed on: 4/4/2025 11:39:25 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	276-	430	374.93	4560.09	7.41	6.10E+01	7.81	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R23247592413.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R24247592414.CNF

Report Generated On : 4/4/2025 11:39:44 AM

Sample Title : L1834667-09 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:38 PM

Live Time : 12000.2 seconds
Real Time : 12000.4 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

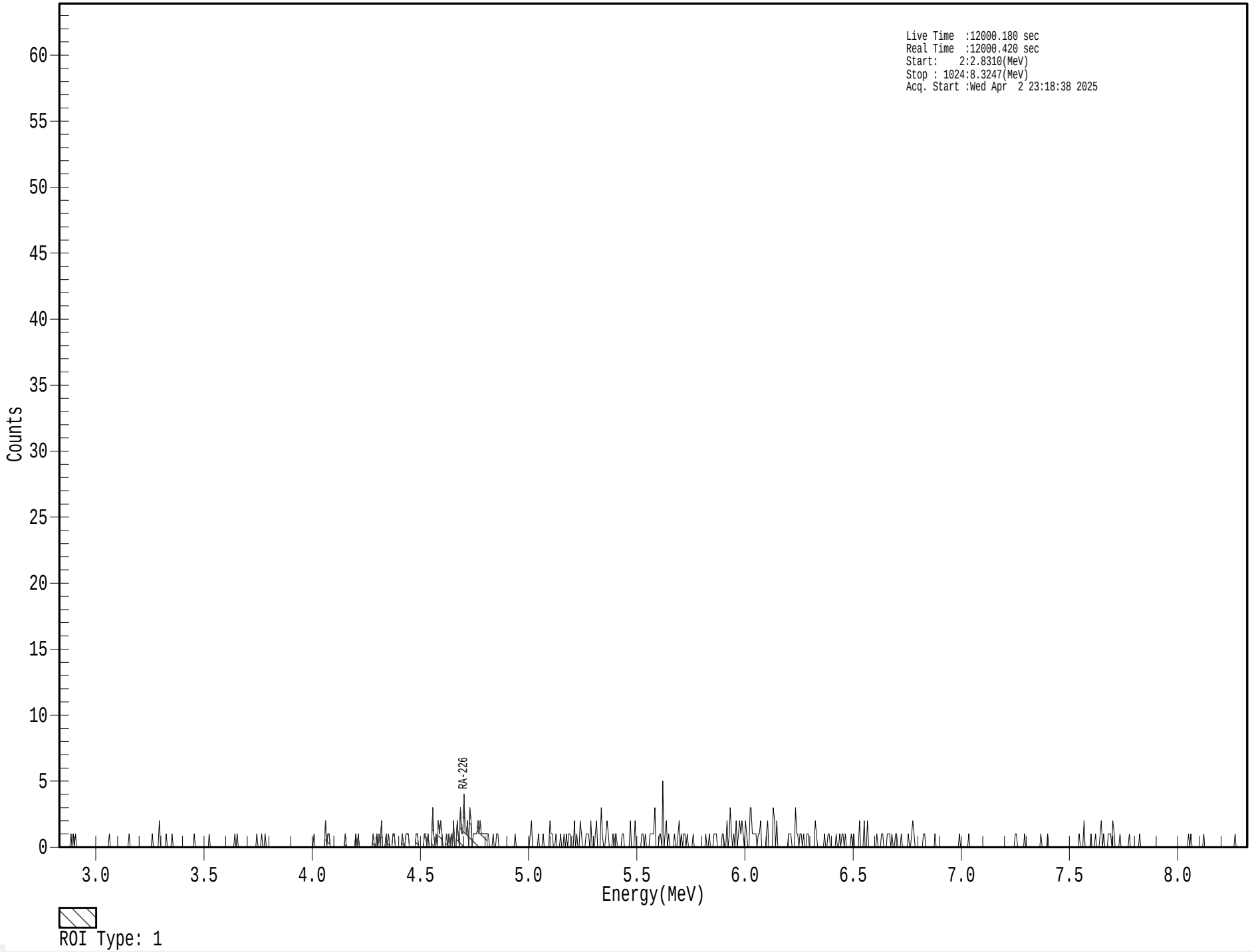
Detector Name: DET24
Sample Title: L1834667-09 WG2475924
Peak Analysis Performed on: 4/4/2025 11:39:44 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	229-	370	325.92	4572.25	7.17	7.70E+01	8.77	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R24247592414.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R25247592415.CNF

Report Generated On : 4/4/2025 11:40:02 AM

Sample Title : L1834667-10 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:29 PM

Live Time : 12000.0 seconds
Real Time : 13616.4 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

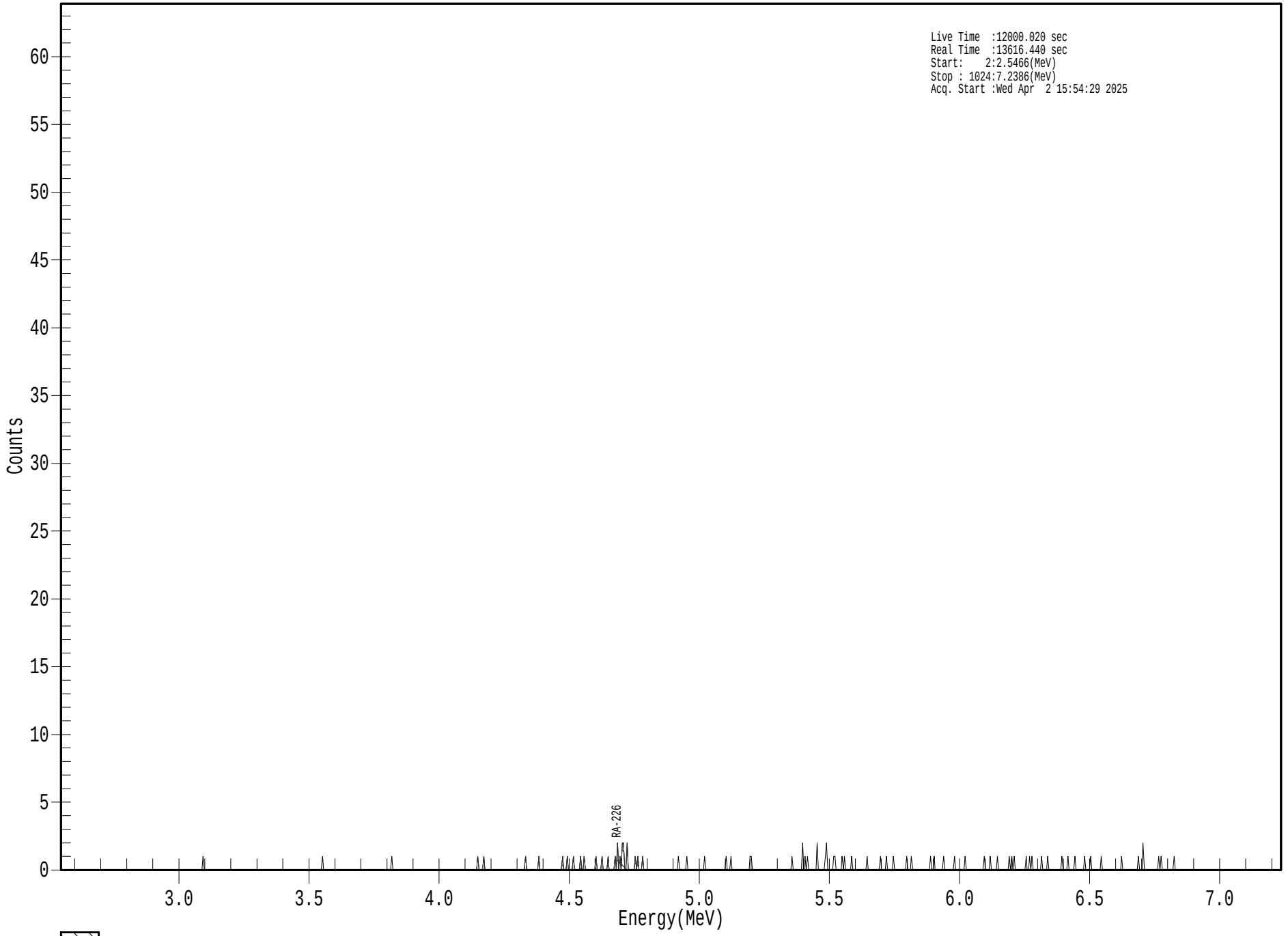
Detector Name: DET25
Sample Title: L1834667-10 WG2475924
Peak Analysis Performed on: 4/4/2025 11:40:02 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	330-	495	447.68	4592.74	4.59	2.50E+01	5.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R25247592415.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R26247592416.CNF

Report Generated On : 4/4/2025 11:40:21 AM

Sample Title : L1834667-11 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:30 PM

Live Time : 12000.1 seconds
Real Time : 13616.3 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

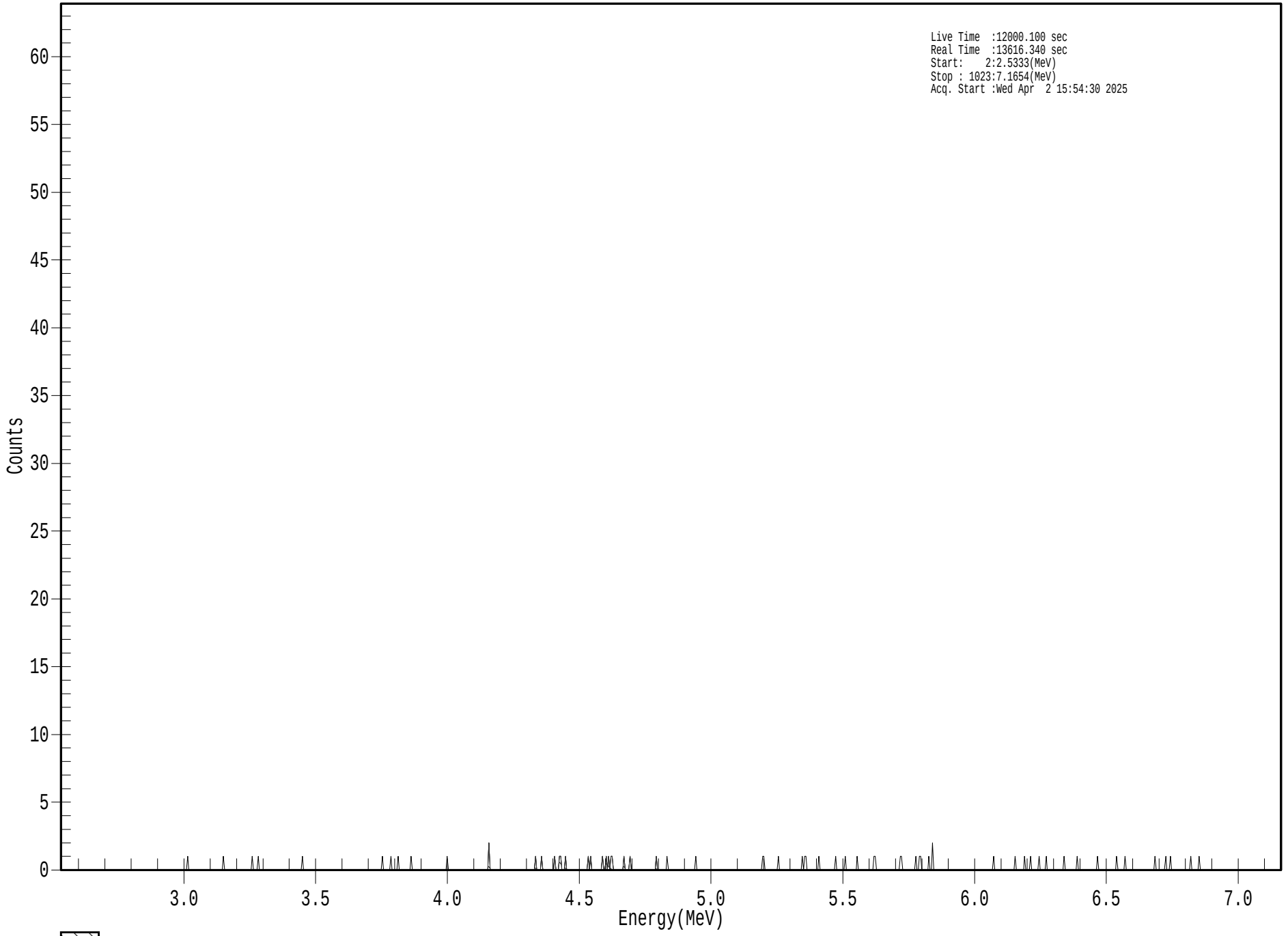
Detector Name: DET26
Sample Title: L1834667-11 WG2475924
Peak Analysis Performed on: 4/4/2025 11:40:21 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	337-	504	435.44	4499.78	4.54	1.80E+01	4.24	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R26247592416.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R27247592417.CNF

Report Generated On : 4/4/2025 11:40:42 AM

Sample Title : L1835561-01 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:32 PM

Live Time : 12000.0 seconds
Real Time : 13616.1 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

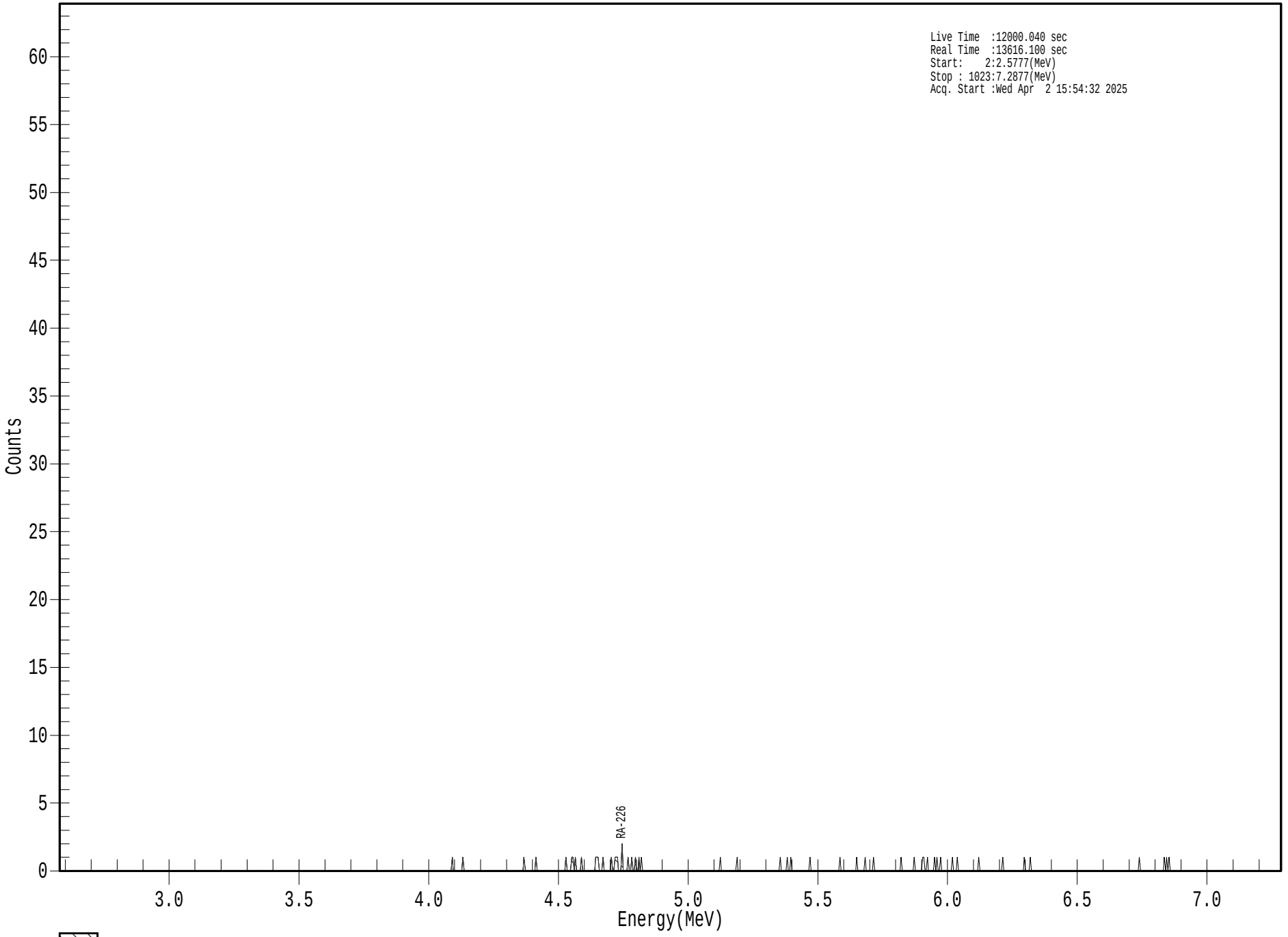
Detector Name: DET27
Sample Title: L1835561-01 WG2475924
Peak Analysis Performed on: 4/4/2025 11:40:42 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	321-	486	441.70	4606.07	4.61	2.30E+01	4.80	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R27247592417.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R28247592418.CNF

Report Generated On : 4/4/2025 11:41:01 AM

Sample Title : L1835561-02 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:33 PM

Live Time : 12000.1 seconds
Real Time : 13616.0 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

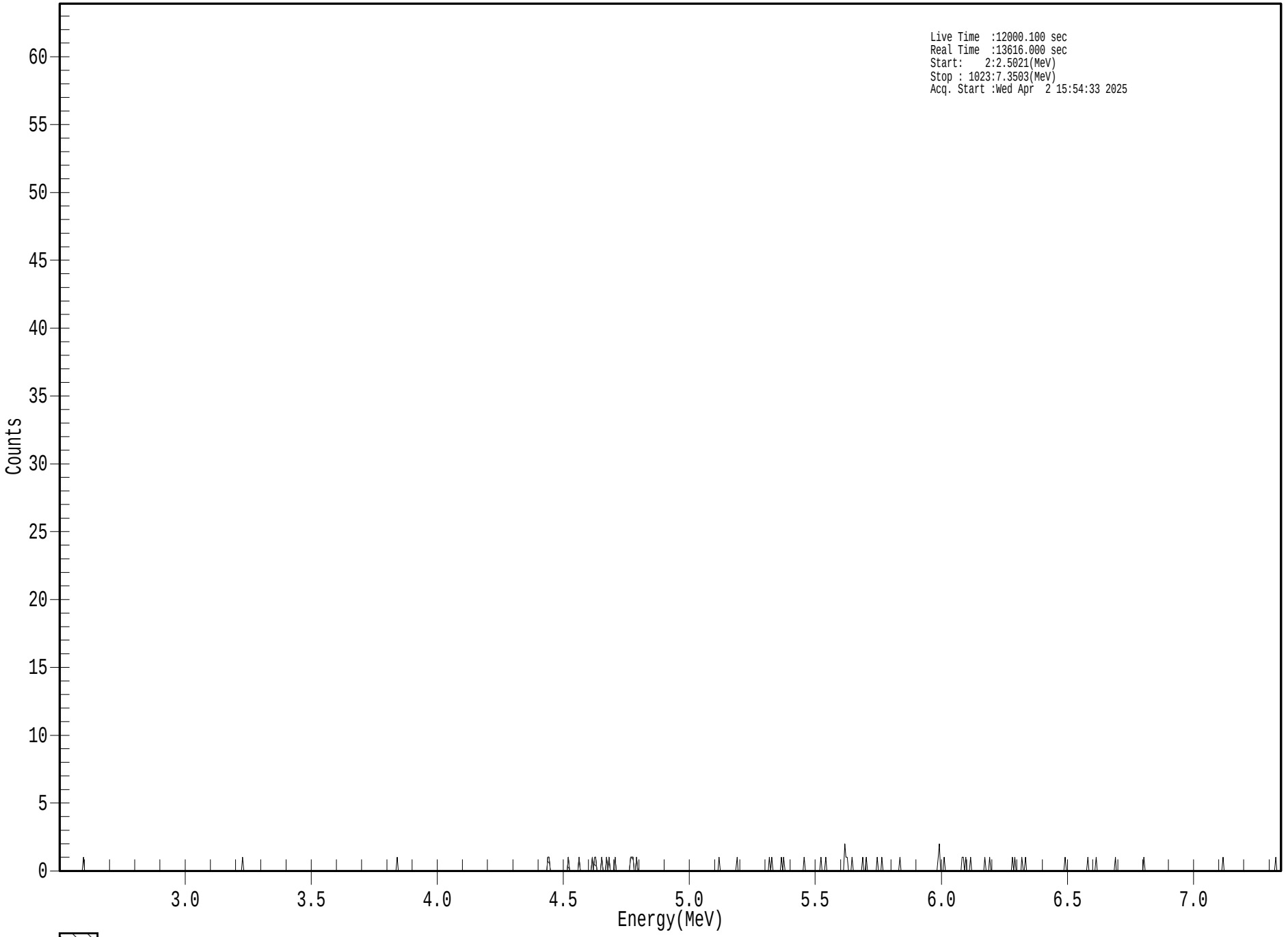
Detector Name: DET28
Sample Title: L1835561-02 WG2475924
Peak Analysis Performed on: 4/4/2025 11:41:01 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	328-	488	453.00	4643.66	9.50	1.50E+01	3.87	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R28247592418.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R29247592419.CNF

Report Generated On : 4/4/2025 11:41:25 AM

Sample Title : L1835561-03 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:35 PM

Live Time : 12000.1 seconds
Real Time : 13615.8 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

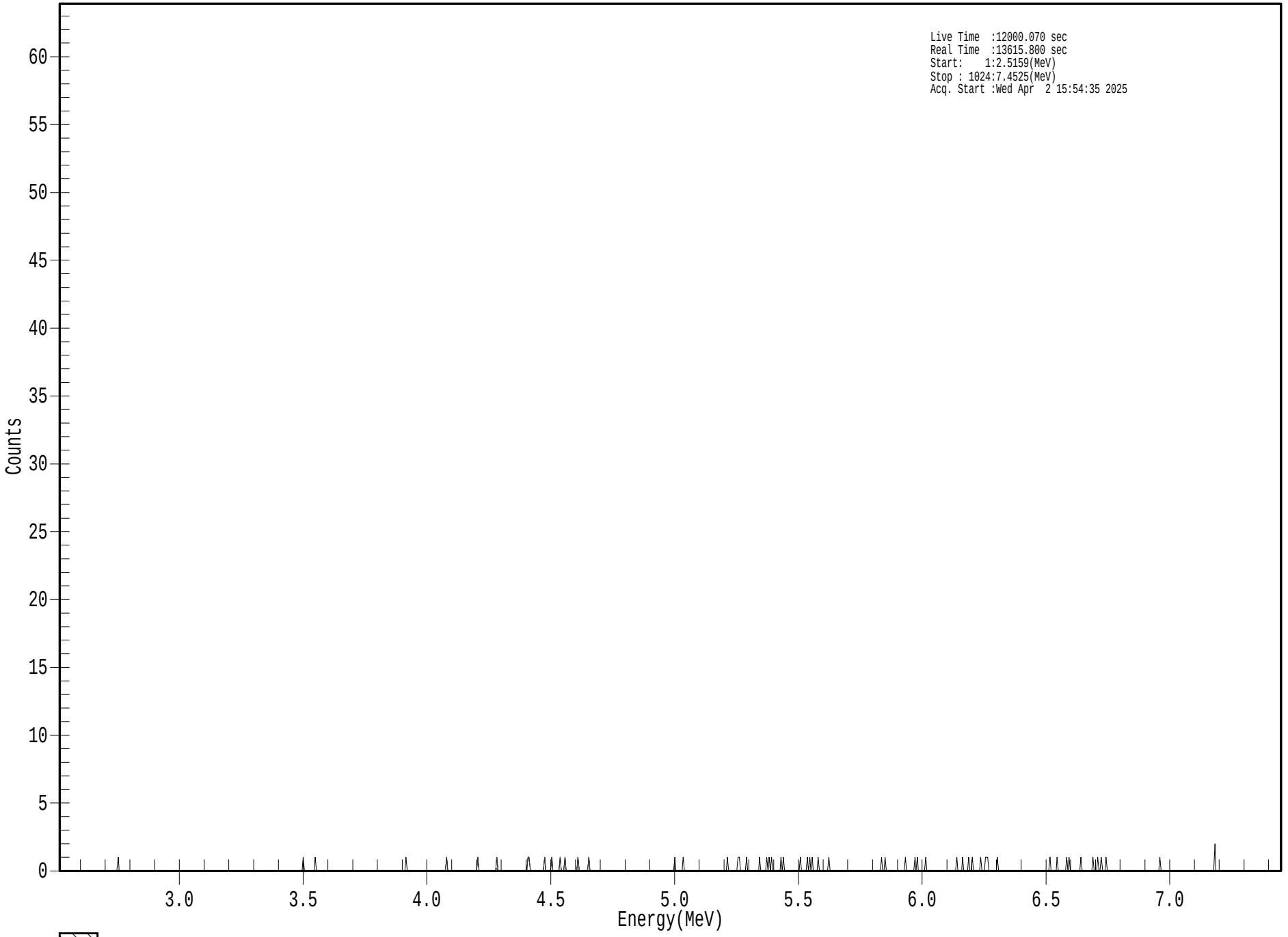
Detector Name: DET29
Sample Title: L1835561-03 WG2475924
Peak Analysis Performed on: 4/4/2025 11:41:25 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	319-	476	397.55	4429.49	4.83	1.10E+01	3.32	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R29247592419.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R30247592420.CNF

Report Generated On : 4/4/2025 11:41:43 AM

Sample Title : L1835561-04 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:36 PM

Live Time : 12000.0 seconds
Real Time : 13615.6 seconds

Dead Time : 11.87 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

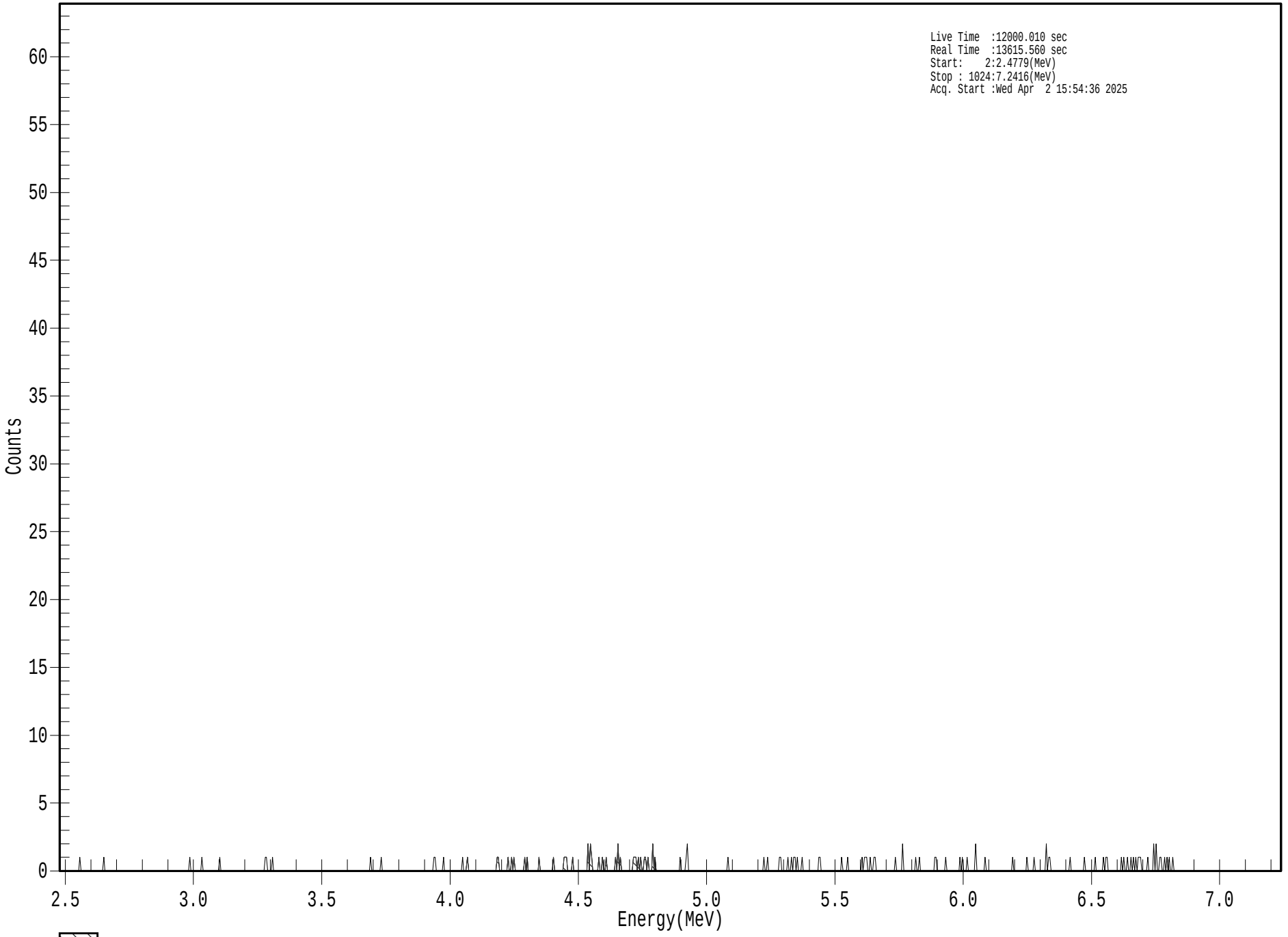
Detector Name: DET30
Sample Title: L1835561-04 WG2475924
Peak Analysis Performed on: 4/4/2025 11:41:43 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	340-	502	443.08	4533.85	4.66	3.70E+01	6.08	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R30247592420.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R32247592421.CNF

Report Generated On : 4/4/2025 11:42:09 AM

Sample Title : L1835561-05 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 3:54:38 PM

Live Time : 12000.0 seconds
Real Time : 13615.4 seconds

Dead Time : 11.86 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

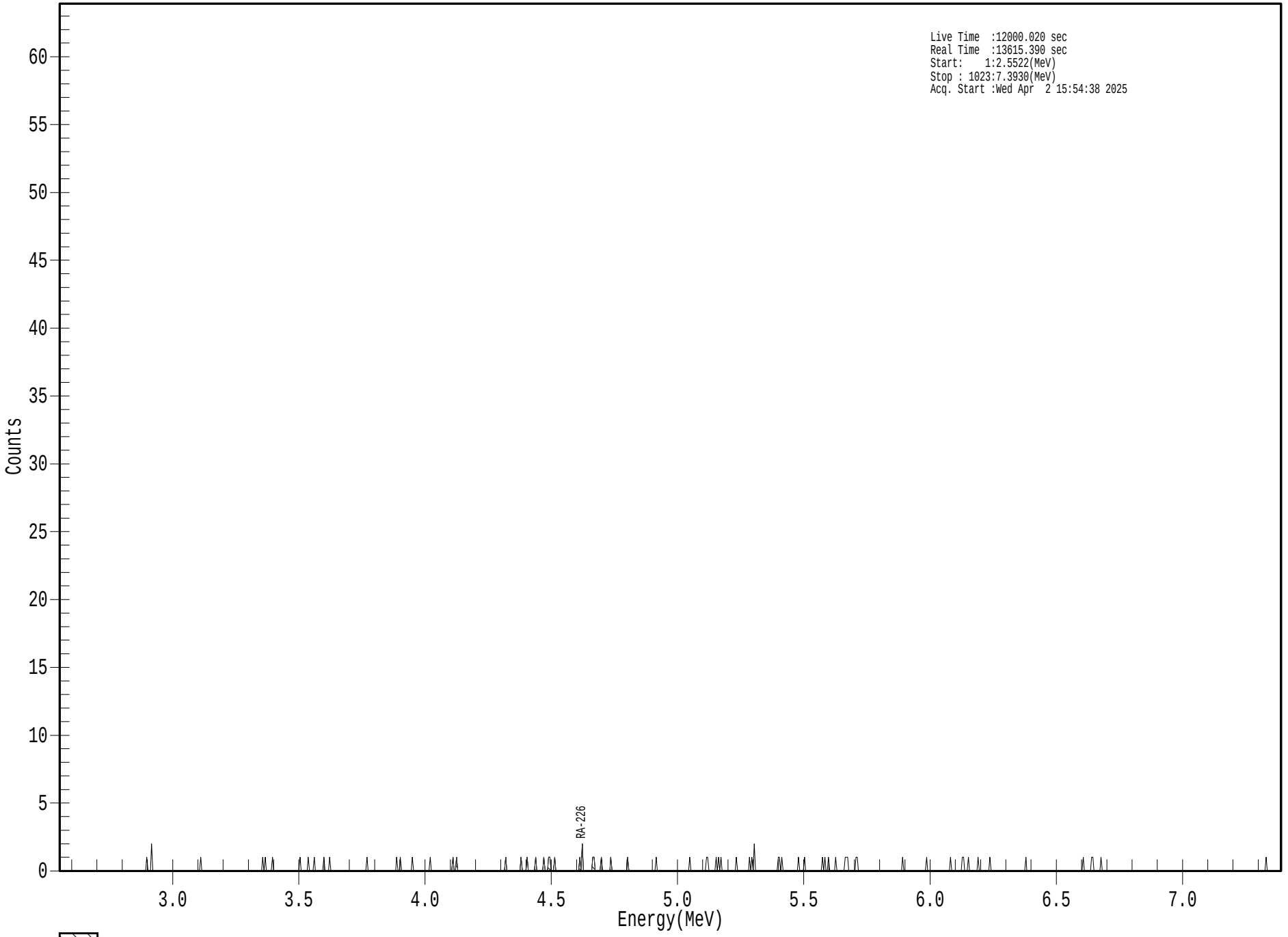
Detector Name: DET32
Sample Title: L1835561-05 WG2475924
Peak Analysis Performed on: 4/4/2025 11:42:09 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	318-	477	414.22	4509.49	4.74	1.80E+01	4.24	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R32247592421.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R02247592422.CNF

Report Generated On : 4/4/2025 11:42:29 AM

Sample Title : L1835561-06 WG2480102
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:19 PM

Live Time : 12000.3 seconds
Real Time : 12000.4 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

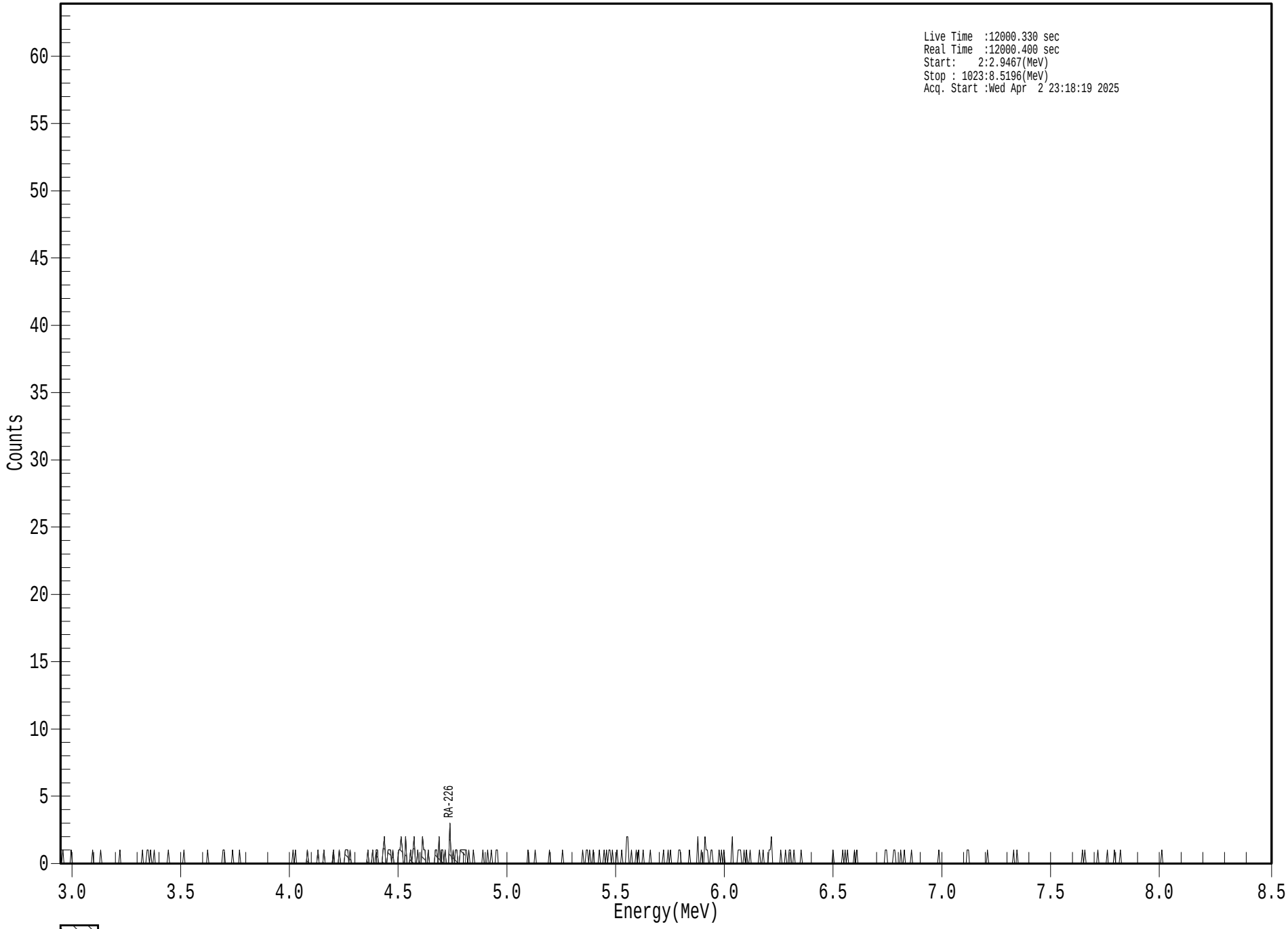
Detector Name: DET02
Sample Title: L1835561-06 WG2480102
Peak Analysis Performed on: 4/4/2025 11:42:29 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	204-	343	293.86	4539.75	6.82	5.60E+01	7.48	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R02247592422.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R03247592423.CNF

Report Generated On : 4/4/2025 11:42:47 AM

Sample Title : L1835561-07 WG2480102
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:20 PM

Live Time : 12000.1 seconds
Real Time : 12000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

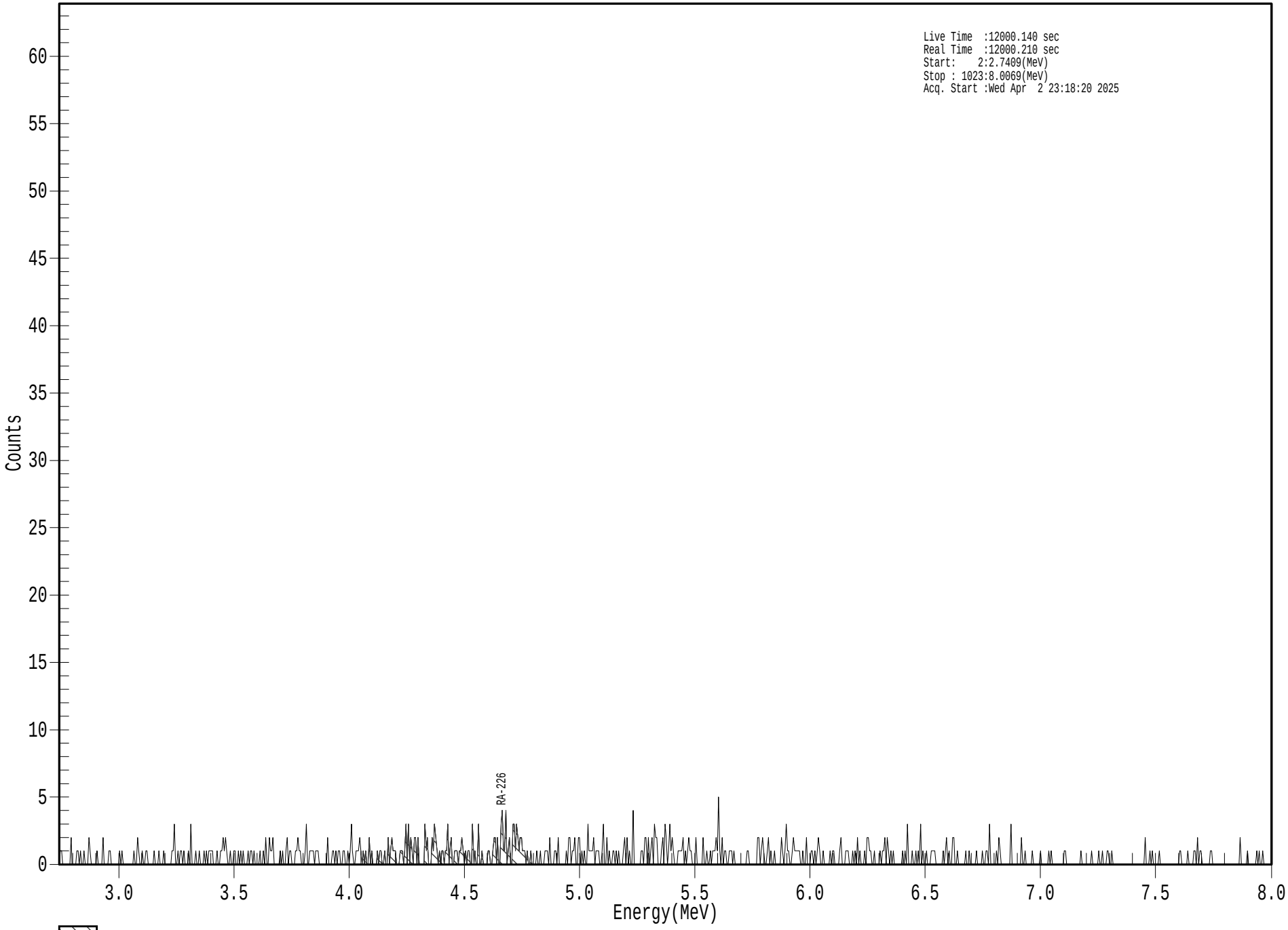
Detector Name: DET03
Sample Title: L1835561-07 WG2480102
Peak Analysis Performed on: 4/4/2025 11:42:47 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	256-	403	336.08	4463.97	10.32	1.29E+02	11.36	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R03247592423.CNF



****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Radium\R2475924\R37247592424.CNF

Report Generated On : 4/4/2025 11:43:09 AM

Sample Title : L1835561-09 WG2475924
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 4/2/2025 11:18:52 PM

Live Time : 12000.0 seconds
Real Time : 12000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

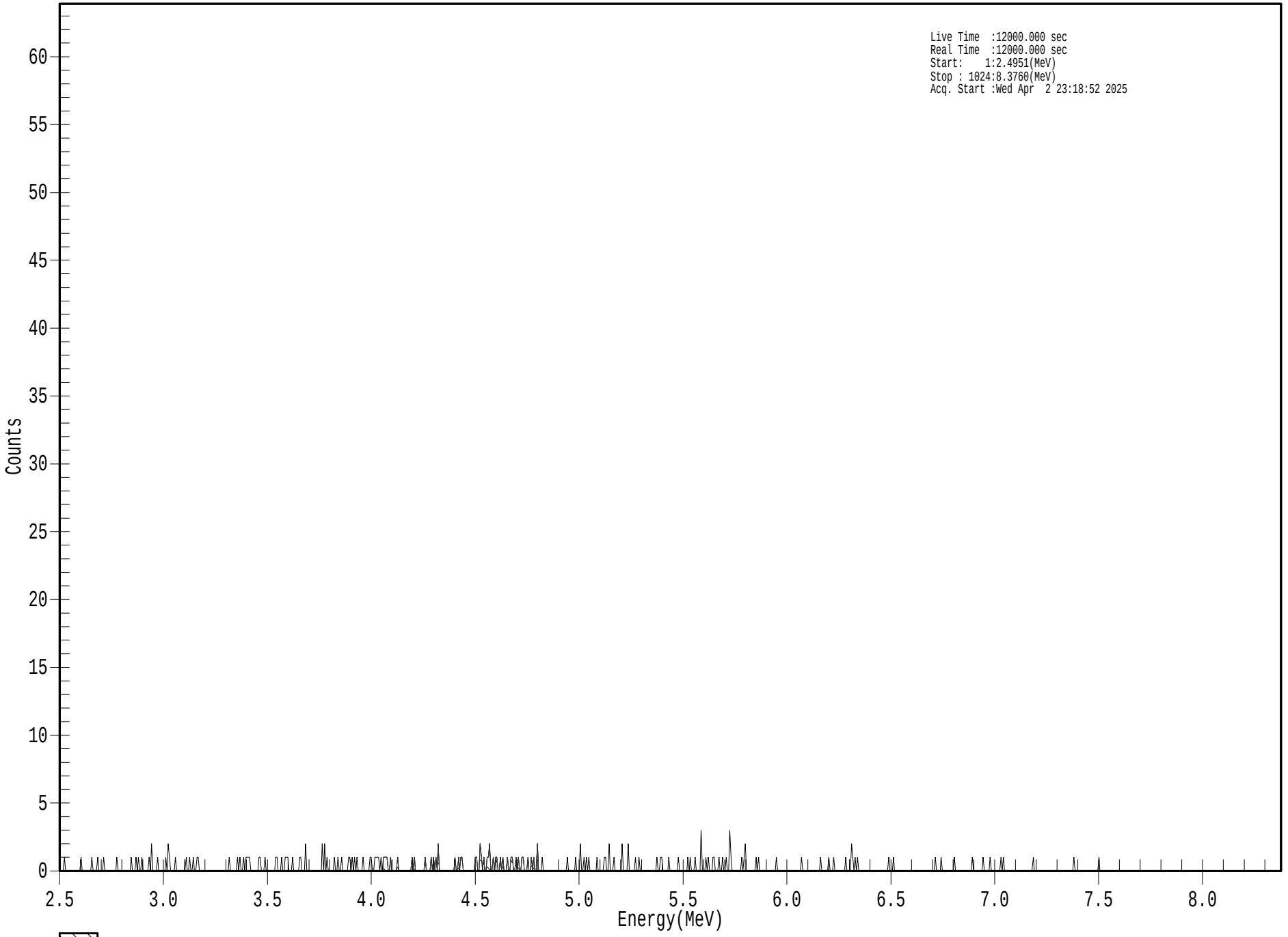
Detector Name: A_4_3A
Sample Title: L1835561-09 WG2475924
Peak Analysis Performed on: 4/4/2025 11:43:09 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	272-	403	345.36	4474.70	5.75	4.50E+01	6.71	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

R37247592424.CNF



WG2475924 Ba-133 Recovery
Sample Order Verified by ZRG3837

Sample ID	Gamma	LT	Analyst	Start	End
BKGD01	1580	8	IJM3838	4/1/2025 15:52	4/1/2025 16:00
STD1	10560	8	IJM3838	4/1/2025 16:01	4/1/2025 16:09
STD2	13087	8	IJM3838	4/1/2025 16:09	4/1/2025 16:17
BLANK WG2475924	12735	8	IJM3838	4/1/2025 16:17	4/1/2025 16:25
LCS WG2475924	11627	8	IJM3838	4/1/2025 16:26	4/1/2025 16:34
MS L1835561-05 WG2475924	12965	8	IJM3838	4/1/2025 16:34	4/1/2025 16:42
MSD L1835561-05 WG2475924	12745	8	IJM3838	4/1/2025 16:42	4/1/2025 16:50
DUP L1834667-08 WG2475924	13696	8	IJM3838	4/1/2025 16:51	4/1/2025 16:59
L1834667-01 WG2475924	13353	8	IJM3838	4/1/2025 16:59	4/1/2025 17:07
L1834667-02 WG2475924	13560	8	IJM3838	4/1/2025 17:07	4/1/2025 17:15
L1834667-03 WG2475924	12836	8	IJM3838	4/1/2025 17:15	4/1/2025 17:23
L1834667-04 WG2475924	13230	8	IJM3838	4/1/2025 17:24	4/1/2025 17:32
L1834667-05 WG2475924	12868	8	IJM3838	4/1/2025 17:32	4/1/2025 17:40
L1834667-06 WG2475924	13208	8	IJM3838	4/1/2025 17:40	4/1/2025 17:48
L1834667-07 WG2475924	13220	8	IJM3838	4/1/2025 17:49	4/1/2025 17:57
L1834667-08 WG2475924	12550	8	IJM3838	4/1/2025 17:57	4/1/2025 18:05
L1834667-09 WG2475924	13169	8	IJM3838	4/1/2025 18:05	4/1/2025 18:13
L1834667-10 WG2475924	12863	8	IJM3838	4/1/2025 18:14	4/1/2025 18:22
L1834667-11 WG2475924	13403	8	IJM3838	4/1/2025 18:22	4/1/2025 18:30
L1835561-01 WG2475924	12290	8	IJM3838	4/1/2025 18:30	4/1/2025 18:38
L1835561-02 WG2475924	12623	8	IJM3838	4/1/2025 18:39	4/1/2025 18:47
L1835561-03 WG2475924	12405	8	IJM3838	4/1/2025 18:47	4/1/2025 18:55
L1835561-04 WG2475924	12076	8	IJM3838	4/1/2025 18:55	4/1/2025 19:03
L1835561-05 WG2475924	11974	8	IJM3838	4/1/2025 19:03	4/1/2025 19:11
L1835561-06 WG2475924	12231	8	IJM3838	4/1/2025 19:12	4/1/2025 19:20
L1835561-07 WG2475924	9128	8	IJM3838	4/1/2025 19:20	4/1/2025 19:28
L1835561-09 WG2475924	12341	8	IJM3838	4/1/2025 19:28	4/1/2025 19:36
BKGD01	1587	8	IJM3838	4/1/2025 19:37	4/1/2025 19:45
STD1	10668	8	IJM3838	4/1/2025 19:45	4/1/2025 19:53
STD2	12936	8	IJM3838	4/1/2025 19:54	4/1/2025 20:02
Recounts					
BKGD01	1605	8	ZRG3837	4/3/2025 14:38	4/3/2025 14:46
STD1	13988	8	ZRG3837	4/3/2025 14:46	4/3/2025 14:54
STD2	13305	8	ZRG3837	4/3/2025 14:54	4/3/2025 15:02
BLANK WG2475924	12259	8	ZRG3837	4/3/2025 15:03	4/3/2025 15:11
LCS WG2475924	12318	8	ZRG3837	4/3/2025 15:11	4/3/2025 15:19
MS L1835561-05 WG2475924	13428	8	ZRG3837	4/3/2025 15:19	4/3/2025 15:27
MSD L1835561-05 WG2475924	13293	8	ZRG3837	4/3/2025 15:28	4/3/2025 15:36
DUP L1834667-08 WG2475924	13742	8	ZRG3837	4/3/2025 15:36	4/3/2025 15:44
L1834667-01 WG2475924	13452	8	ZRG3837	4/3/2025 15:44	4/3/2025 15:52
L1834667-02 WG2475924	13639	8	ZRG3837	4/3/2025 15:52	4/3/2025 16:00
L1834667-03 WG2475924	12929	8	ZRG3837	4/3/2025 16:01	4/3/2025 16:09
L1834667-04 WG2475924	13184	8	ZRG3837	4/3/2025 16:09	4/3/2025 16:17
L1834667-05 WG2475924	13570	8	ZRG3837	4/3/2025 16:17	4/3/2025 16:25
L1834667-06 WG2475924	13018	8	ZRG3837	4/3/2025 16:26	4/3/2025 16:34
L1834667-07 WG2475924	14090	8	ZRG3837	4/3/2025 16:34	4/3/2025 16:42
L1834667-08 WG2475924	12944	8	ZRG3837	4/3/2025 16:42	4/3/2025 16:50
L1834667-09 WG2475924	13230	8	ZRG3837	4/3/2025 16:51	4/3/2025 16:59
L1834667-10 WG2475924	12787	8	ZRG3837	4/3/2025 16:59	4/3/2025 17:07
L1834667-11 WG2475924	13547	8	ZRG3837	4/3/2025 17:07	4/3/2025 17:15
L1835561-01 WG2475924	12462	8	ZRG3837	4/3/2025 17:16	4/3/2025 17:24
L1835561-02 WG2475924	12375	8	ZRG3837	4/3/2025 17:24	4/3/2025 17:32
L1835561-03 WG2475924	12616	8	ZRG3837	4/3/2025 17:32	4/3/2025 17:40
L1835561-04 WG2475924	12026	8	ZRG3837	4/3/2025 17:41	4/3/2025 17:49
L1835561-05 WG2475924	12379	8	ZRG3837	4/3/2025 17:49	4/3/2025 17:57
L1835561-06 WG2475924	12420	8	ZRG3837	4/3/2025 17:57	4/3/2025 18:05
L1835561-07 WG2475924	9159	8	ZRG3837	4/3/2025 18:05	4/3/2025 18:13
L1835561-09 WG2475924	12423	8	ZRG3837	4/3/2025 18:14	4/3/2025 18:22
BKGD01	1557	8	ZRG3837	4/3/2025 18:22	4/3/2025 18:30
STD1	14081	8	ZRG3837	4/3/2025 18:31	4/3/2025 18:39
STD2	13283	8	ZRG3837	4/3/2025 18:39	4/3/2025 18:47

Alpha Spectrometer Efficiency Calibration

April-25

CERTIFICATE

STANDARD ID	SOURCE TYPE	Th230 (DPM) ALPHA	Pu239 (DPM) ALPHA	Am241 (DPM) ALPHA	PREP DATE	EXPIRATION DATE	ANALYST
AS-MIX-030424-1	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-2	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-3	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-4	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-5	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-6	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-7	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-8	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-030424-9	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-03042410	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-03042411	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE
AS-MIX-03042412	DISK	2246	2311	2062	3/1/2024	3/1/2025	RE

Samples were prepared by pipetting 1 ml Th-230(23H20597), 1 ml Am-241(18A26705) and 5 ml Pu-239(18L06878) standards into beaker of 50 ml 1 N HCl and precipitating as NdF.
The ppt was mounted on a 25mm 0.1 micron filter.

DECAY CALCUALTION

Th230 Source
124007
ESC51614
23H20597

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	12-Feb-24

Ao =	1011.72	nCi
N =	0.00	
T(1/2) =	77000.00	years
T =	1.47	years
dilution =	1000.00	
A =	1011.70	nCi
A =	2245.98	dpm/ml
A =	1011.70	pCi/ml

Eckert & Ziegler
Analytics

1380 Seaboard Industrial Blvd.
Atlanta, Georgia 30318
Tel 404-352-8677
Fax 404-352-2837
www.ezag.com

Rad
1 x 5 mL

CERTIFICATE OF CALIBRATION

ESC51614

Standard Reference Source

SRS Number: 124007
Source Description: 5 mL Liquid in 5 mL Flame Sealed Ampoule
Product Code: 8230
Customer: ESC Lab Sciences, dba Pace Analytical
P.O. Number: GDIT-09157, Item 6

This standard radionuclide source was prepared gravimetrically from a master solution calibrated by Eckert & Ziegler Analytics (EZA). The master solution was calibrated by liquid scintillation counting. Radionuclide calibration and purity were checked by germanium gamma-ray spectrometry, liquid scintillation counting, and/or alpha spectrometry, as applicable. The nuclear decay rate and reference date for this source are given below. EZA maintains traceability to the National Institute of Standards and Technology (NIST) through a Measurements Assurance Program as described in USNRC Regulatory Guide 4.15, Revision 2, July 2007, and compliance with ANSI N42.22-1995, "Traceability of Radioactive Sources to NIST."

Reference Date: 25-August-2022 12:00 PM EST

Isotope	Half-Life, d	Activity, Bq	Uncertainty u_A, %	Uncertainty u_B, %	Uncertainty U, %*	Calibration Method**
Th-230	2.753E+07	3.743E+04	0.2	1.0	2.1	4π LS

*Uncertainty: U - Relative expanded uncertainty, $k = 2$. See NIST Technical Note 1297, "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Results." **Calibration Methods: 4π LS - 4π Liquid Scintillation Counting, HPGe - High Purity Germanium Gamma-Ray Spectrometer, IC - Ionization Chamber.

(Certificate continued on reverse side)

Corporate Office
24937 Avenue Tibbitts Valencia, California 91355

Laboratory
1380 Seaboard Industrial Blvd. Atlanta, Georgia, 30318

SRS Number: 124002

Comments:
5.08382 g of 0.5 M HNO_3 solution, carrier free.

Impurities:
α-impurities (other than decay products) < 0.1%
γ-impurities (other than decay products) < 0.1%

This source was wipe tested in its inactive areas with leak test results < 185 Bq (5 nCi) of removable activity per ISO 9978:1992.

Source Prepared by: _____
H. Salvo, Radiochemist

QC Approved by: _____ Date: 18-AUG-22
J. Lahr, Spectroscopist

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Calibrations\021825\01\01_REPORT.CNF

Report Generated On : 2/20/2025 12:54:39 PM

Sample Title : DET 01 SC 021925
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 2/17/2025 8:43:33 PM

Live Time : 600.5 seconds
Real Time : 601.3 seconds

Dead Time : 0.14 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 6/13/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

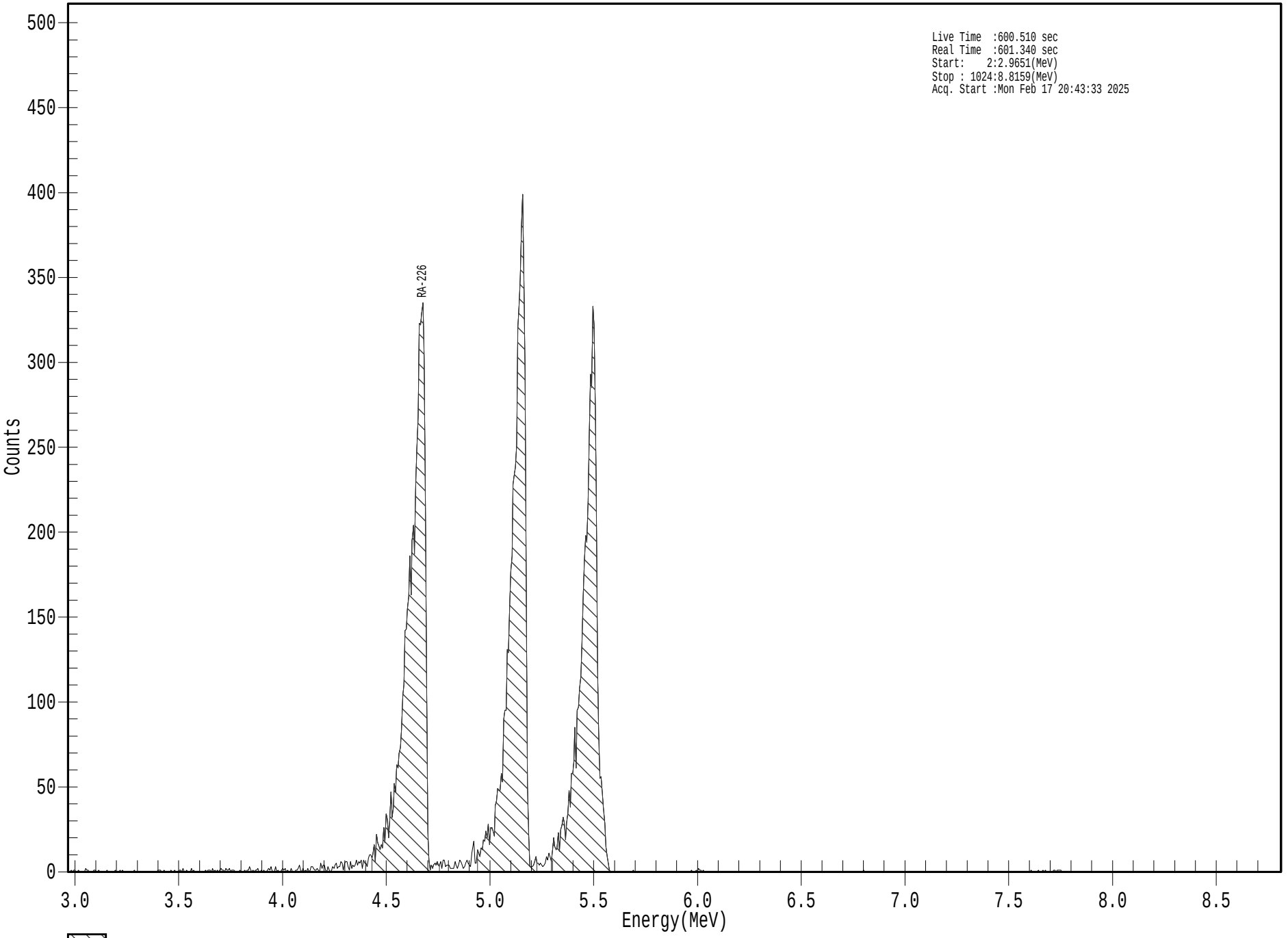
Detector Name: DET01
Sample Title: DET 01 SC 021925
Peak Analysis Performed on: 2/20/2025 12:54:39 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

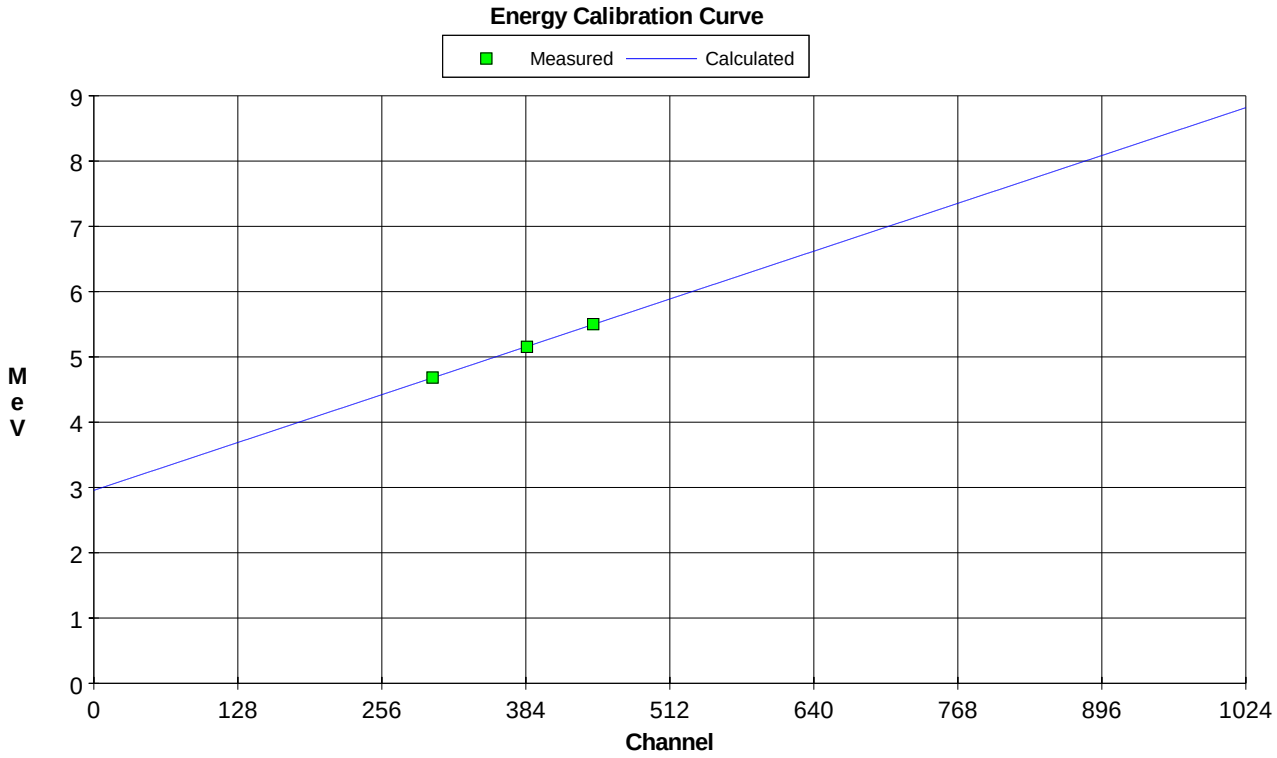
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	258-	315	292.36	4627.37	70.79	5.37E+03	73.30	0.00E+00
2	347-	397	378.37	5119.73	64.98	5.31E+03	72.88	0.00E+00
3	409-	460	438.89	5466.23	65.42	4.67E+03	68.34	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

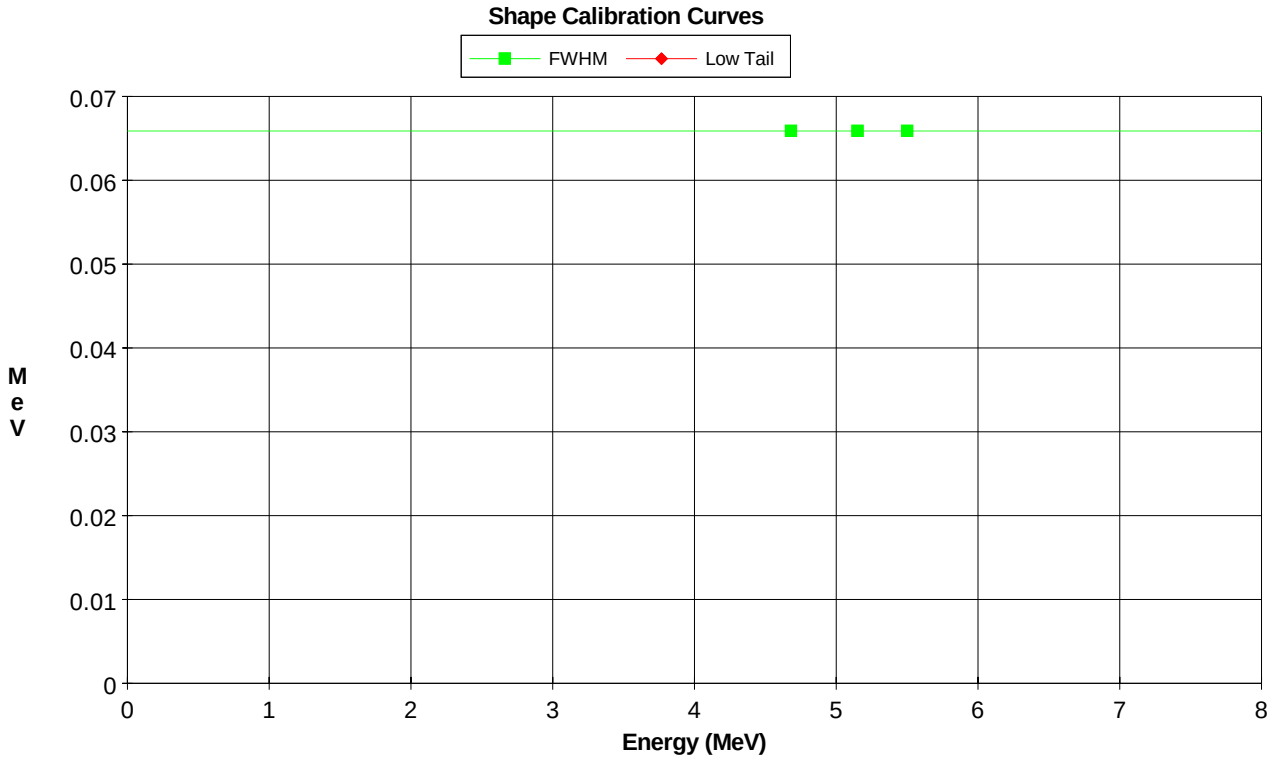
01_REPORT.CNF





Datasource: DET01
Energy = 2.954e+000 MeV + 5.725e-003*Ch
FWHM = 6.586e-002 MeV

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Datasource: O:\alpha_sp\2025\Calibrations\021825\01\01_REPORT.CNF
Energy = 2.954e+00 MeV +5.725e-03*Ch
FWHM = 6.586e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: DET02

Report Generated On : 2/19/2025 4:11:23 PM

Sample Title : DET 02 SC 021925
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 0.100 MeV

Sample Size : 1.000E+000 Unit

Sample Taken On :
Acquisition Started : 2/17/2025 9:02:55 PM

Live Time : 600.8 seconds
Real Time : 601.7 seconds

Dead Time : 0.14 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET02
Sample Title: DET 02 SC 021925
Peak Analysis Performed on: 2/19/2025 4:11:23 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

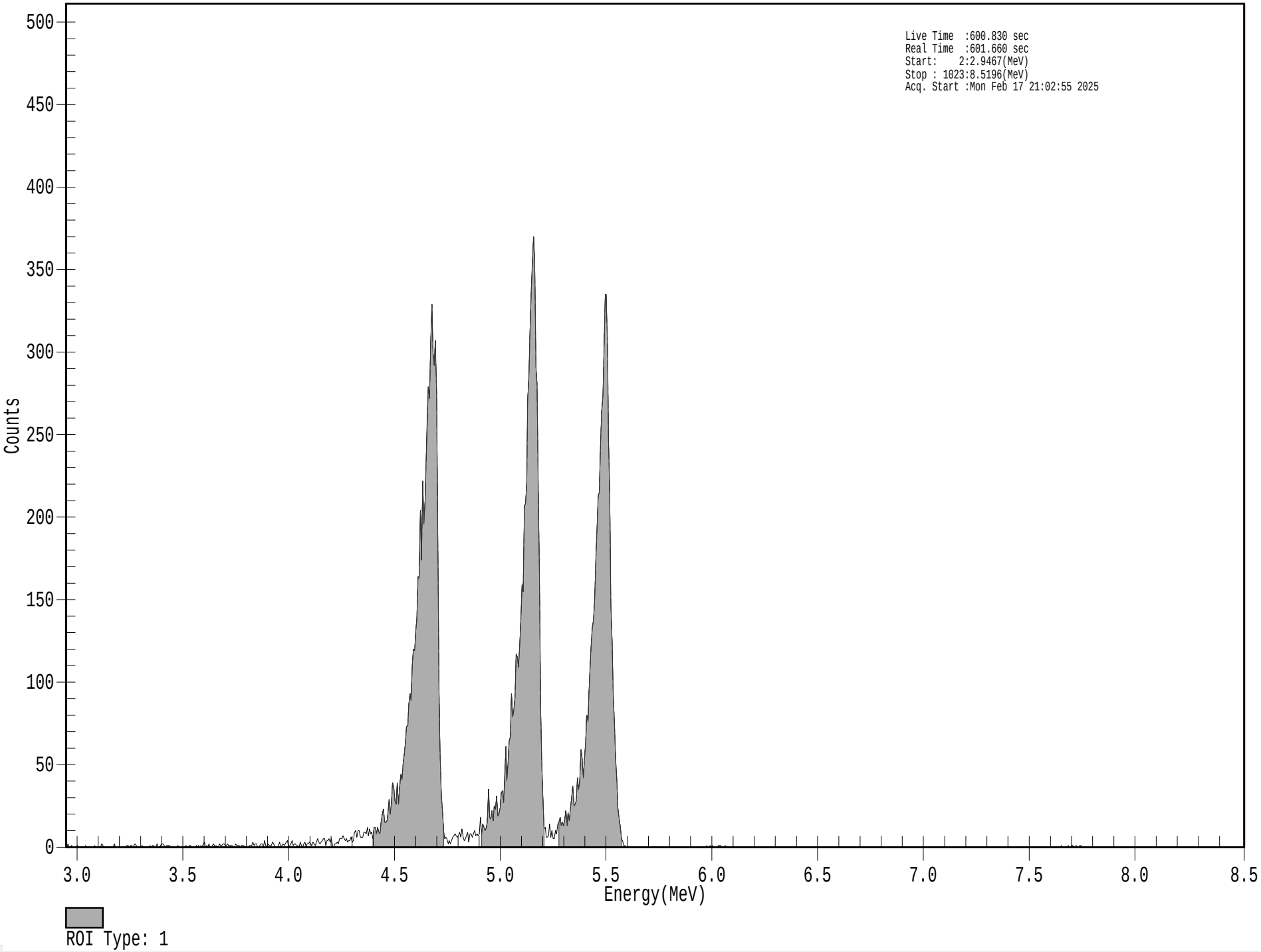
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	268-	329	310.83	4632.40	88.92	6.39E+003	79.91	0.00E+000
2	362-	416	400.02	5119.19	71.37	6.05E+003	77.79	0.00E+000
3	429-	483	463.60	5466.21	70.90	5.53E+003	74.34	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

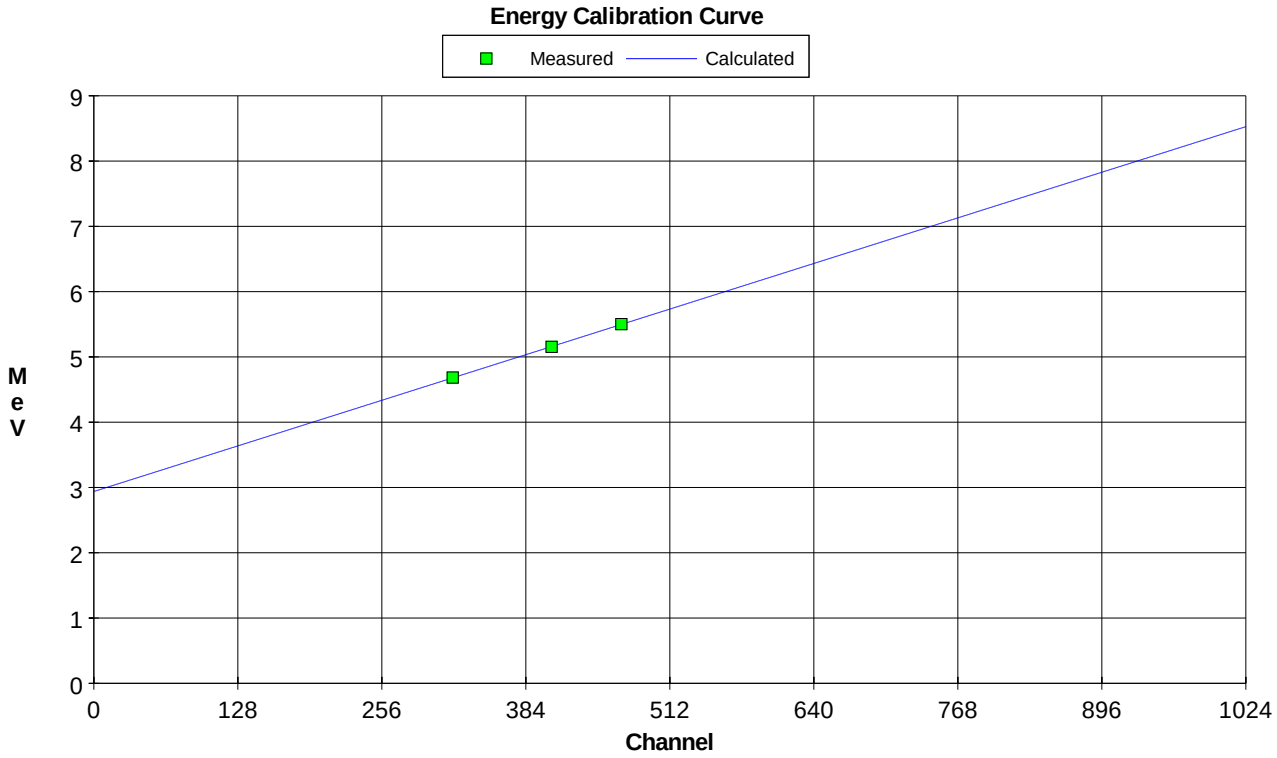
Errors quoted at 1.000 sigma

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

Detector DET02

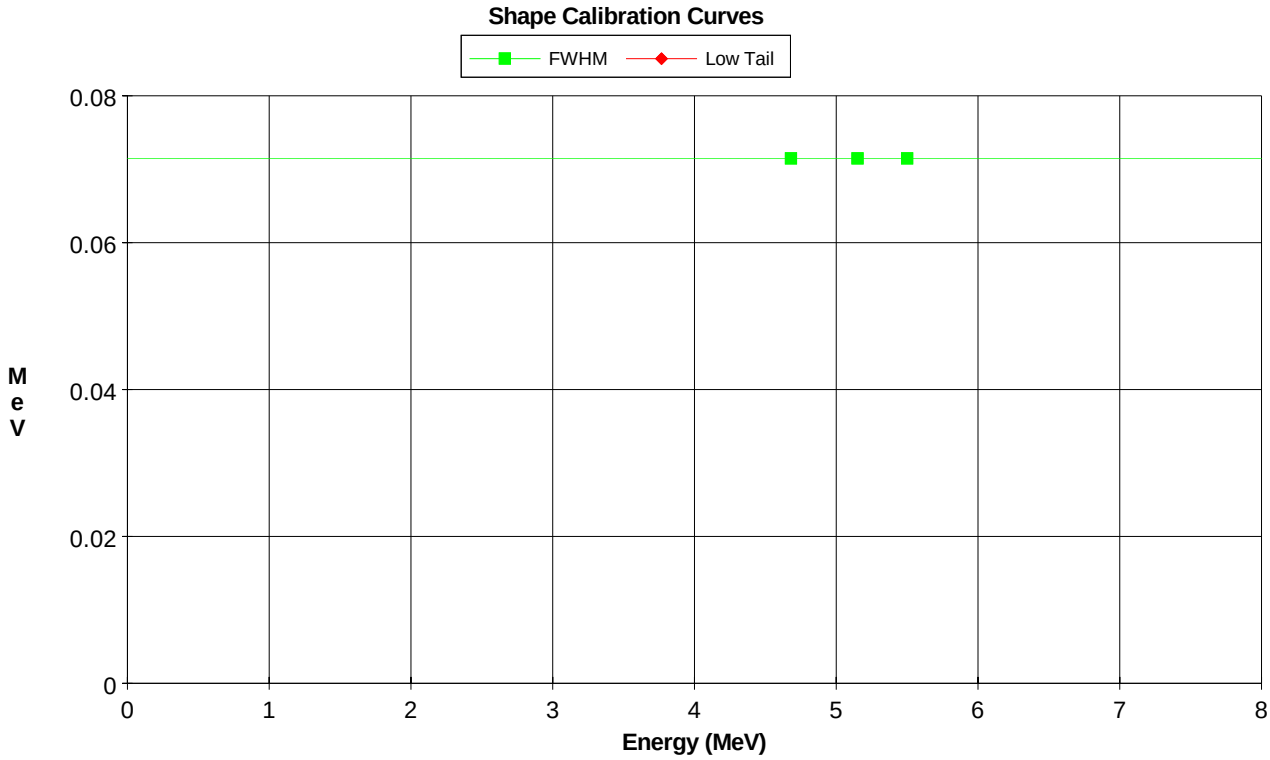


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Datasource: DET02
Energy = 2.936e+000 MeV + 5.458e-003*Ch
FWHM = 7.143e-002 MeV

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Datasource: O:\alpha_sp\2025_Source_Checks\02\02021925.CNF
Energy = 2.936e+00 MeV +5.458e-03*Ch
FWHM = 7.143e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: DET03

Report Generated On : 2/19/2025 5:07:29 PM

Sample Title : DET 03 SC 021925
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 0.100 MeV

Sample Size : 1.000E+000 Unit

Sample Taken On :
Acquisition Started : 2/17/2025 9:47:04 PM

Live Time : 600.1 seconds
Real Time : 601.0 seconds

Dead Time : 0.14 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET03
Sample Title: DET 03 SC 021925
Peak Analysis Performed on: 2/19/2025 5:07:29 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

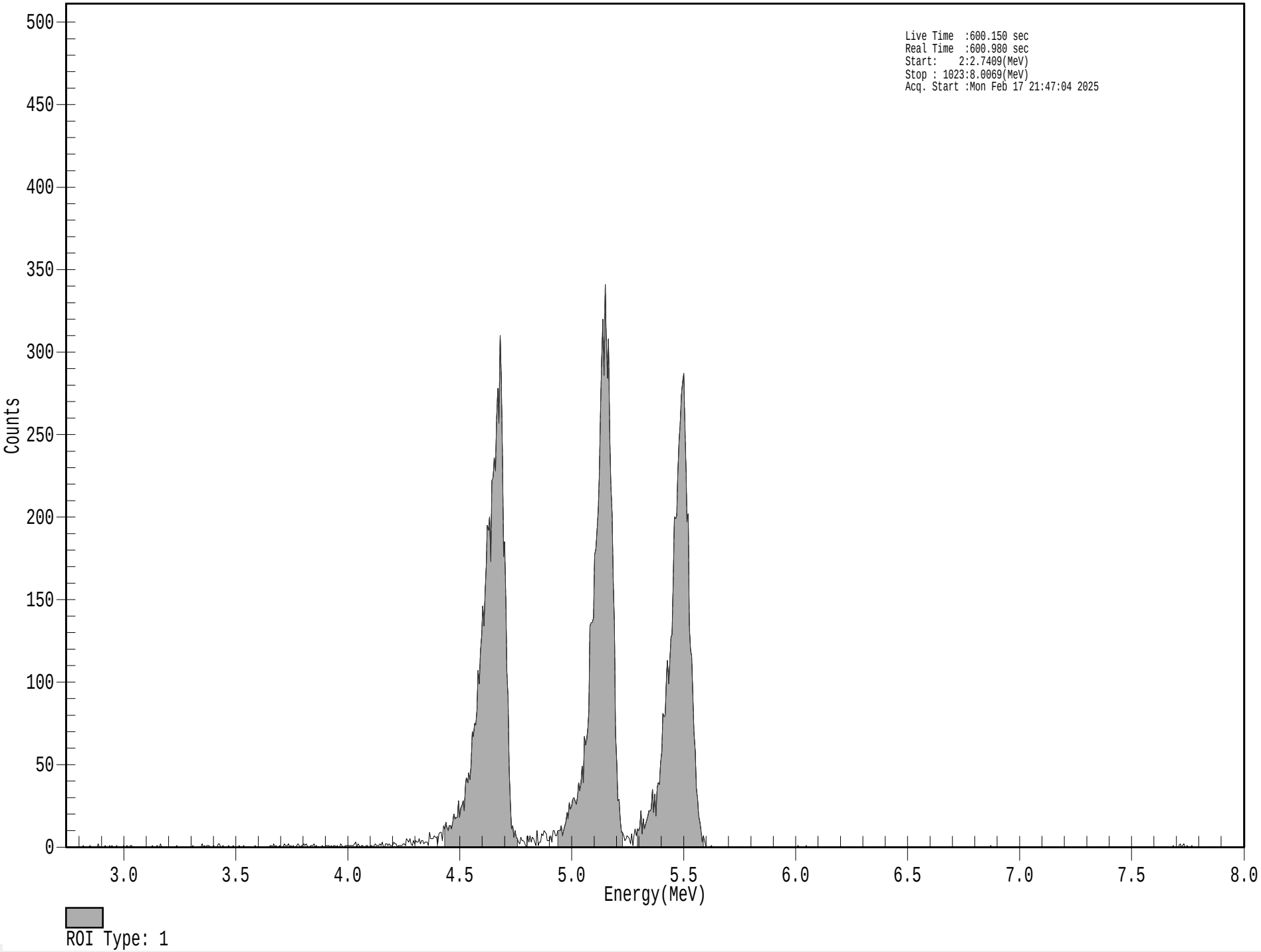
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	330-	393	369.55	4636.59	91.36	6.12E+003	78.22	0.00E+000
2	428-	484	464.59	5126.79	82.41	6.01E+003	77.50	0.00E+000
3	497-	554	531.73	5473.06	74.51	5.38E+003	73.36	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

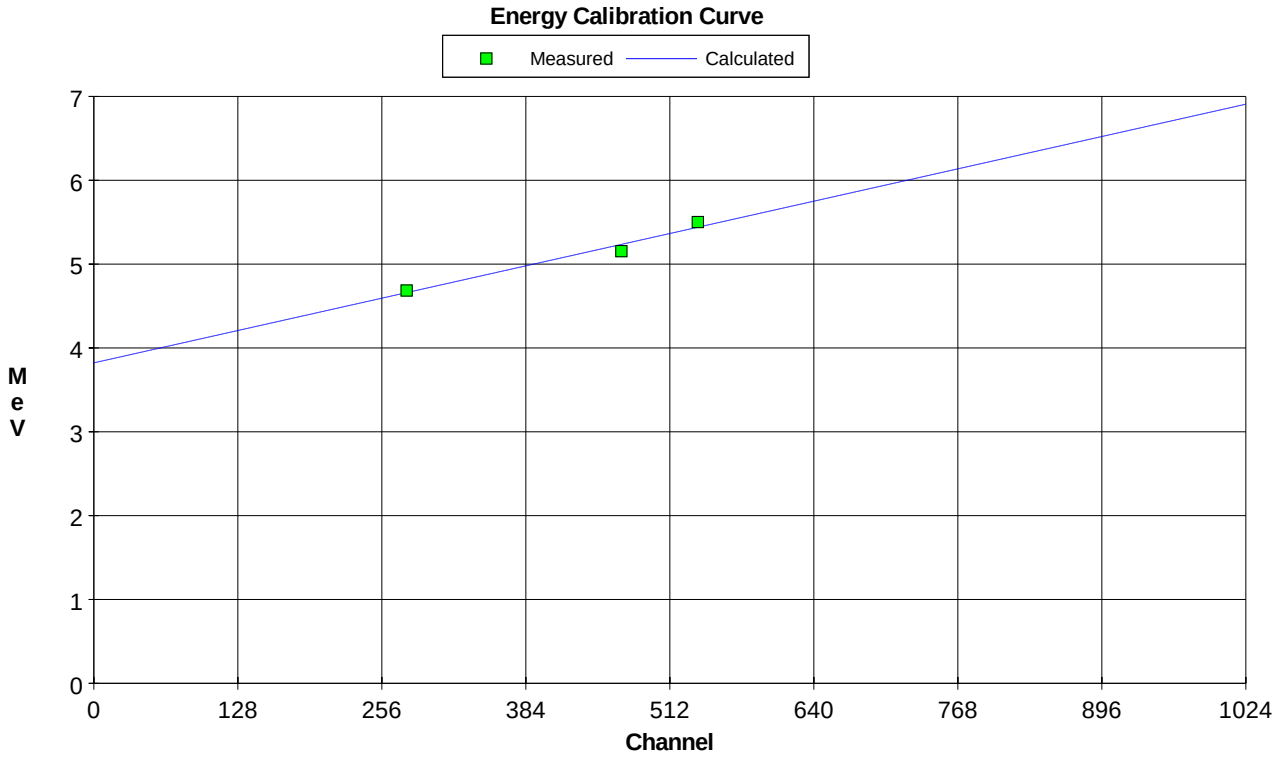
Errors quoted at 1.000 sigma

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Detector DET03

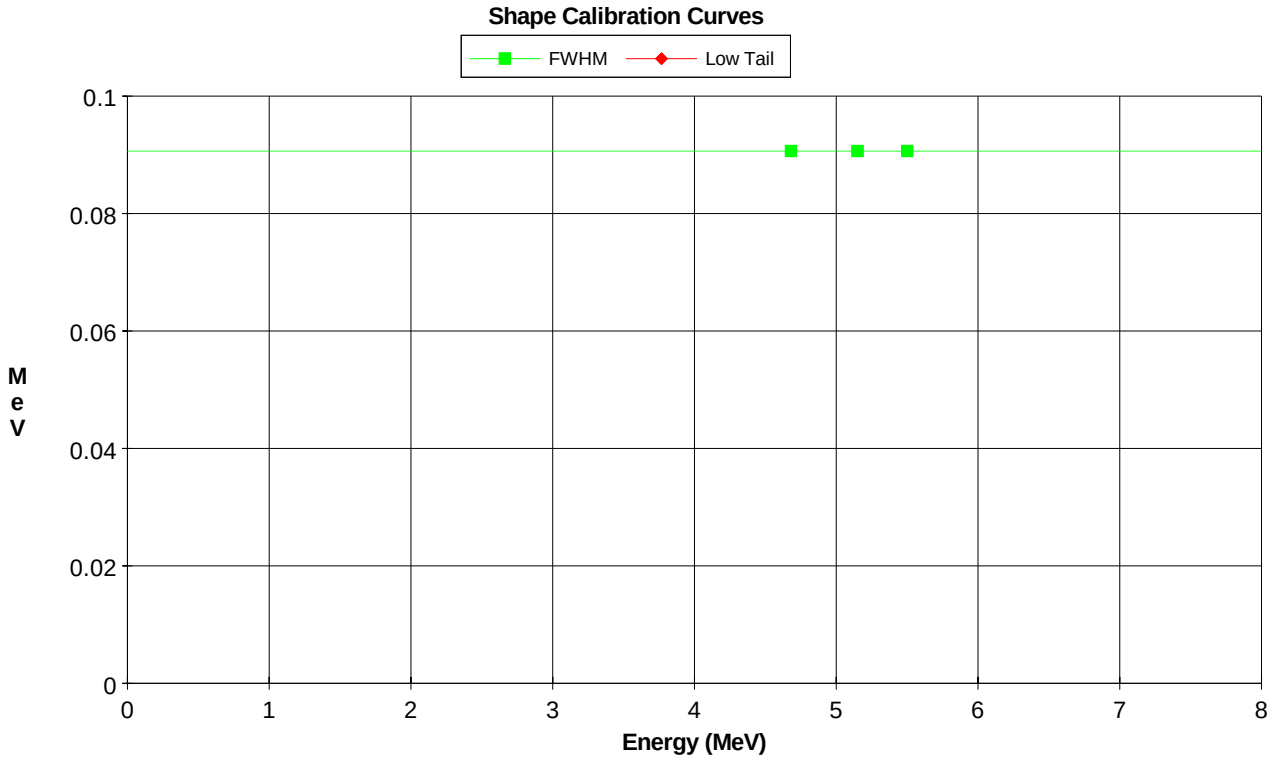


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Datasource: DET03
Energy = 3.820e+000 MeV + 3.013e-003*Ch
FWHM = 5.293e-002 MeV

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Datasource: O:\alpha_sp\2025_Source_Checks\03\03021925.CNF
Energy = 2.731e+00 MeV +5.158e-03*Ch
FWHM = 9.061e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: DET04

Report Generated On : 2/19/2025 5:07:05 PM

Sample Title : DET 04 SC 021925
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 0.100 MeV

Sample Size : 1.000E+000 Unit

Sample Taken On :
Acquisition Started : 2/17/2025 8:48:21 PM

Live Time : 600.3 seconds
Real Time : 601.1 seconds

Dead Time : 0.14 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 6/13/2024
Efficiency ID :

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET04
Sample Title: DET 04 SC 021925
Peak Analysis Performed on: 2/19/2025 5:07:05 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

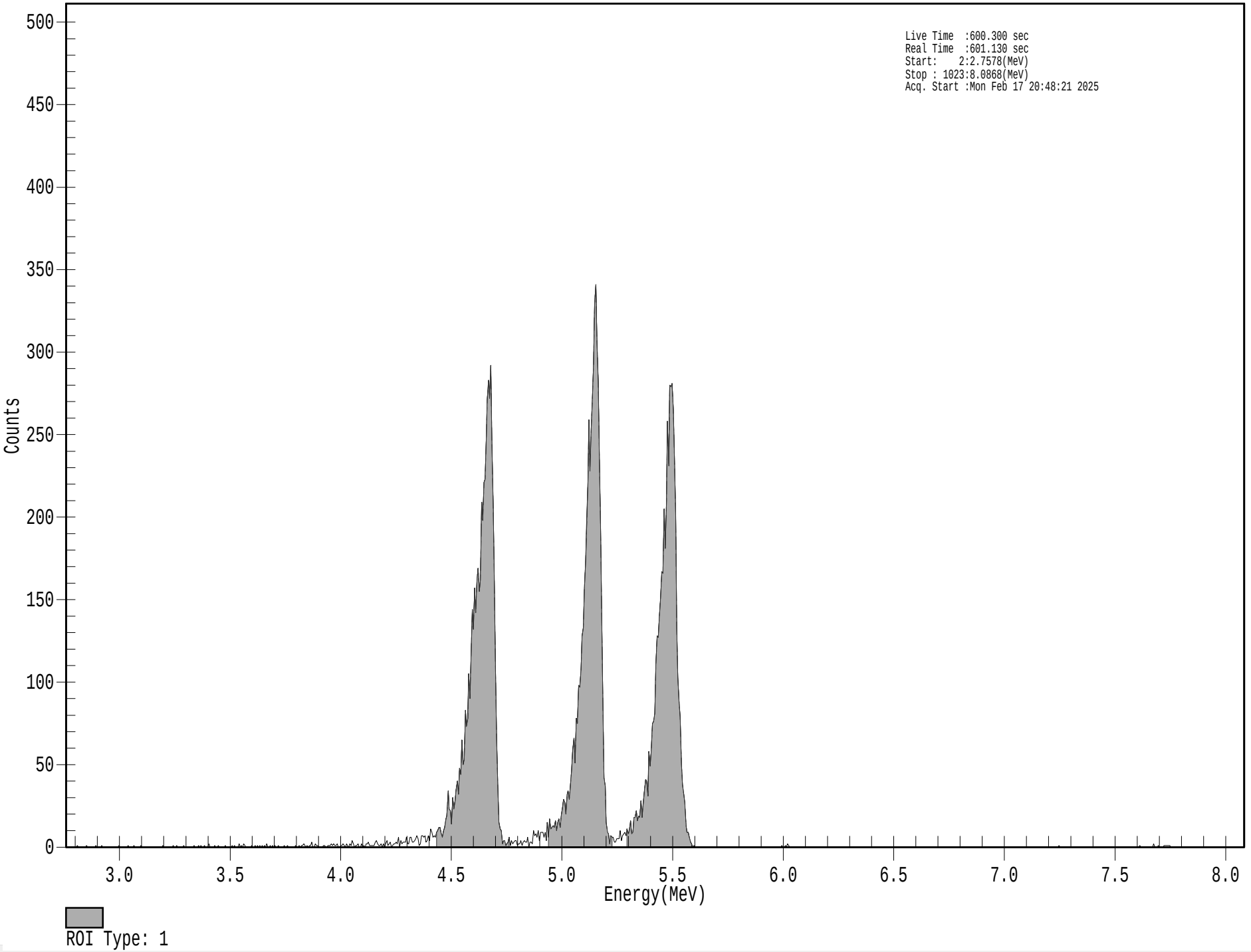
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	323-	386	360.70	4629.99	84.18	5.53E+003	74.34	0.00E+000
2	420-	475	455.00	5122.20	71.28	5.43E+003	73.69	0.00E+000
3	488-	544	521.19	5467.67	77.91	5.00E+003	70.72	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

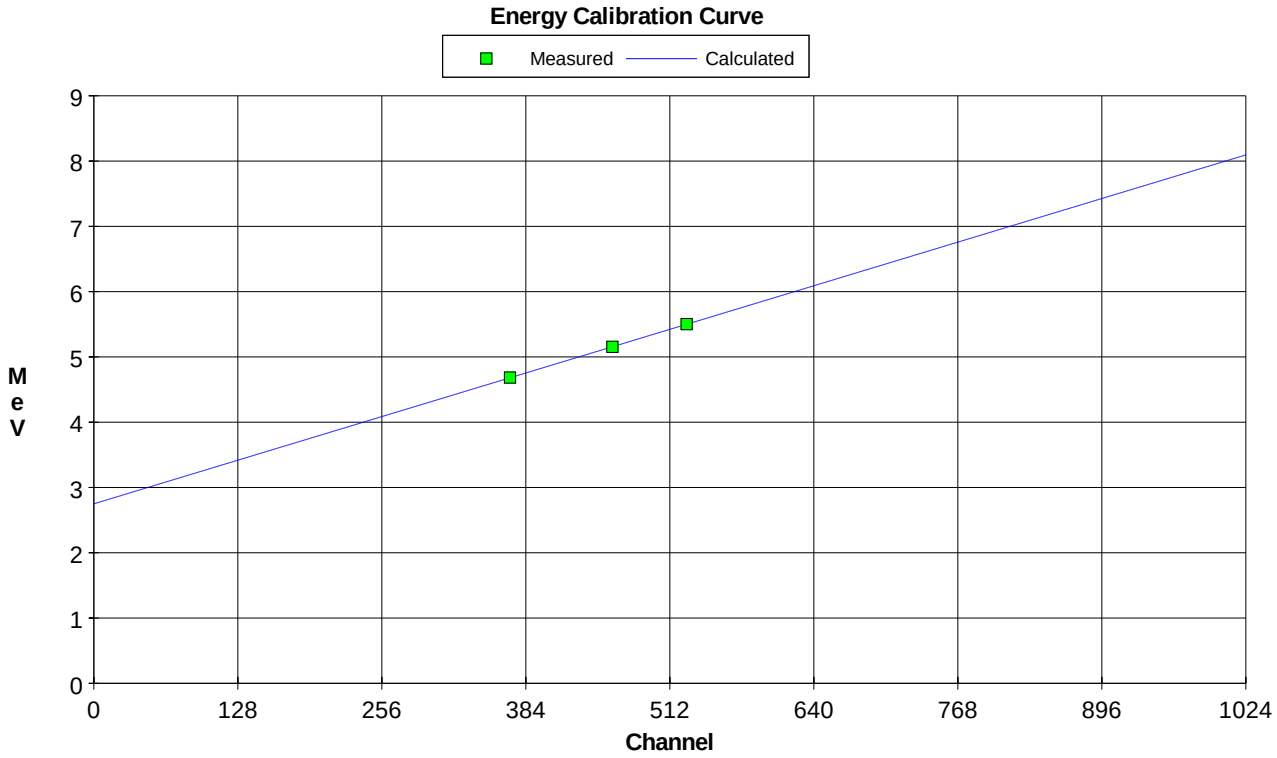
Errors quoted at 1.000 sigma

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Detector DET04

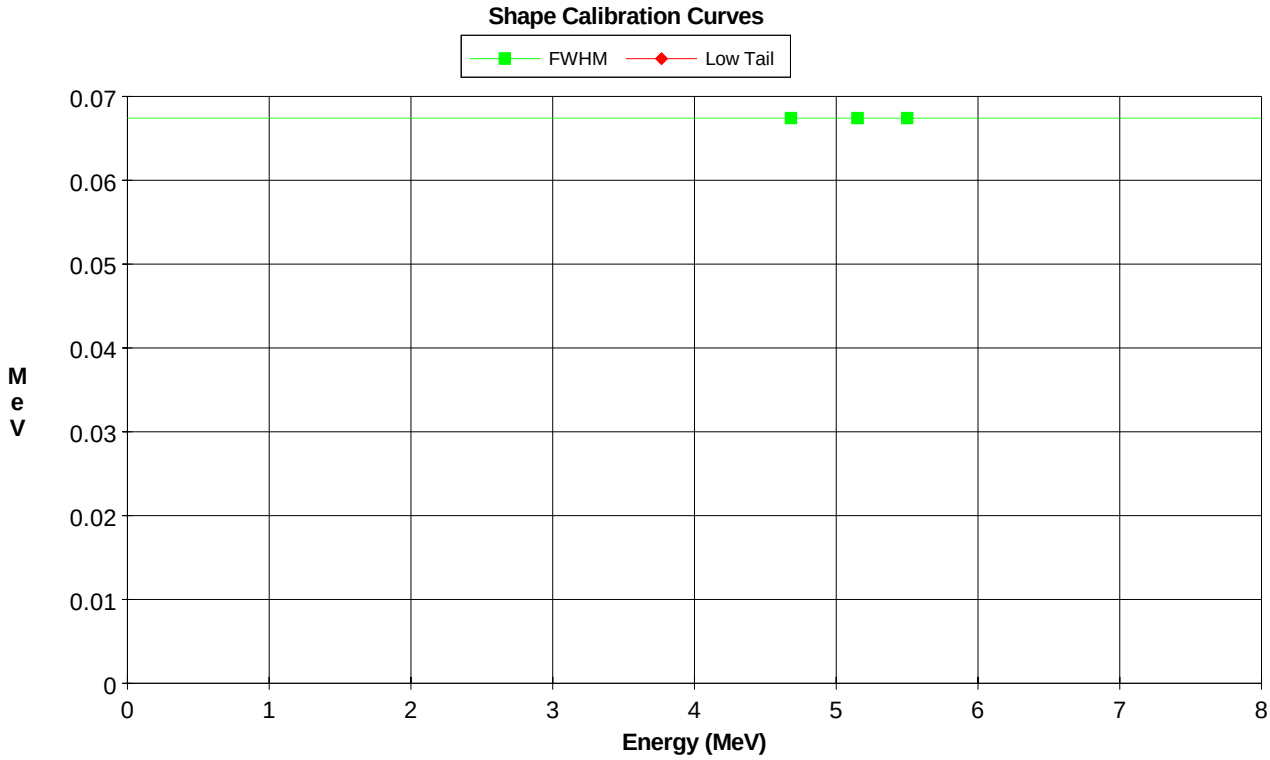


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Datasource: DET04
Energy = 2.747e+000 MeV + 5.219e-003*Ch
FWHM = 6.739e-002 MeV

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Datasource: O:\alpha_sp\2025_Source_Checks\04\04021925.CNF
Energy = 2.747e+00 MeV +5.219e-03*Ch
FWHM = 6.739e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET09
Sample Title: DET 09 SC 110124
Peak Analysis Performed on: 11/1/2024 9:16:48 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	309-	367	339.75	4605.30	90.29	6.21E+003	78.77	0.00E+000
2	398-	449	432.17	5130.99	65.48	6.10E+003	78.12	0.00E+000
3	461-	512	497.38	5501.93	69.79	5.36E+003	73.21	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 09 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.996	4687.60*	99.70	1.045E+003	2.563E+001
PU-239	0.999	5160.00*	100.00	1.025E+003	5.701E+001
AM-241	1.000	5485.70*	99.00	9.093E+002	2.376E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:16:48 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

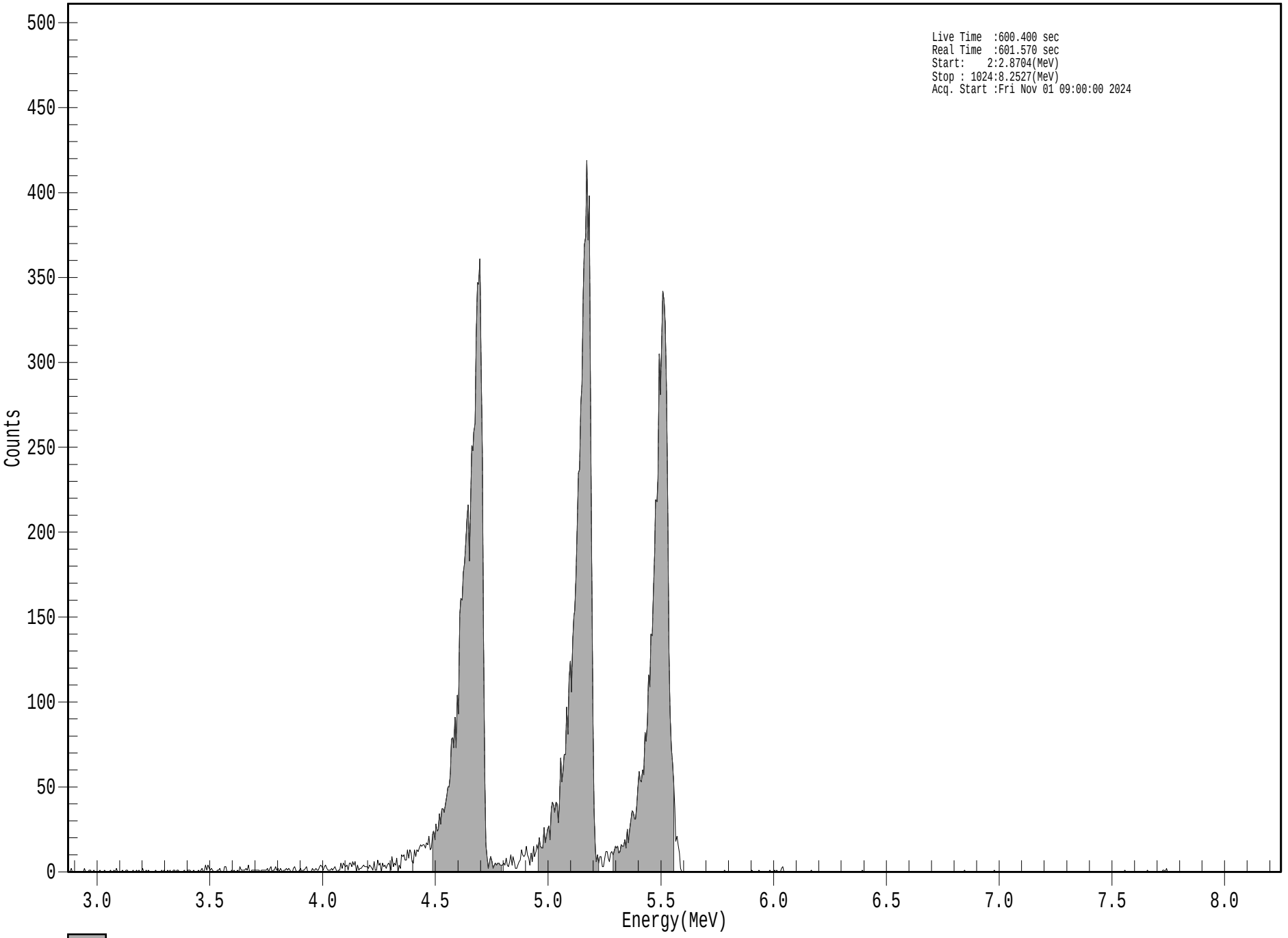
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

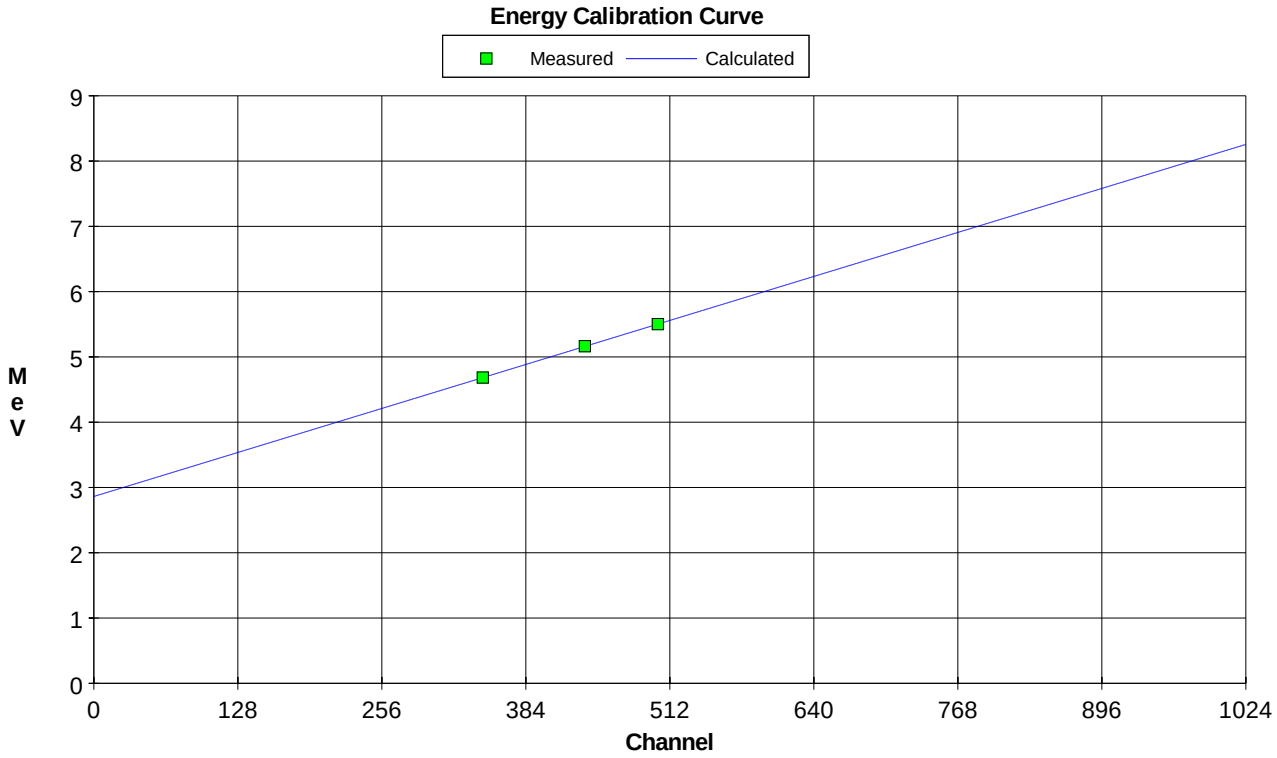
Errors quoted at 1.000 sigma

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Detector DET09

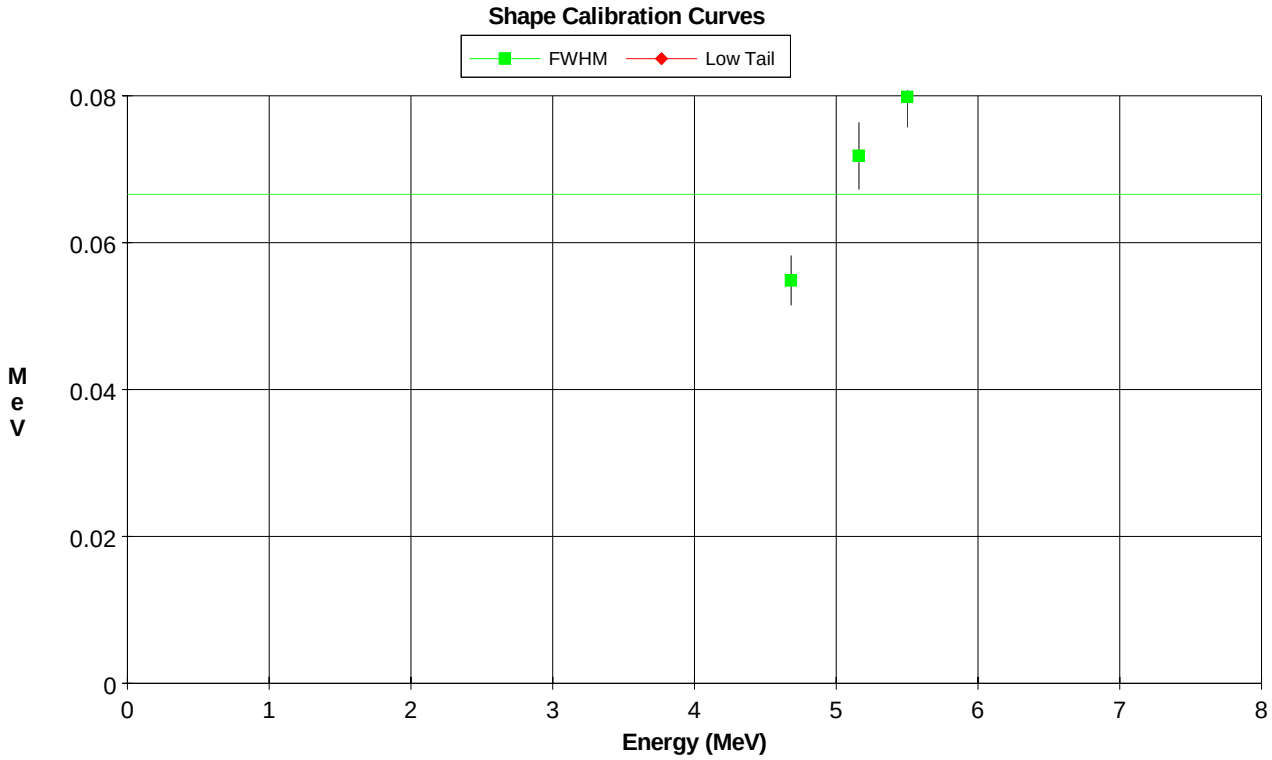


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Datasource: DET09
Energy = 2.860e+000 MeV + 5.266e-003*Ch
FWHM = 6.655e-002 MeV

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Datasource: DET09
Energy = 2.860e+000 MeV + 5.266e-003*Ch
FWHM = 6.655e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET10
Sample Title: DET 10 SC 110124
Peak Analysis Performed on: 11/1/2024 9:17:14 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	336-	410	380.09	4602.24	51.73	6.89E+003	82.98	0.00E+000
2	446-	503	477.82	5091.85	62.45	7.14E+003	84.50	0.00E+000
3	516-	582	546.37	5435.29	62.55	6.22E+003	78.87	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 10 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.995	4687.60*	99.70	1.046E+003	1.695E+001
PU-239	0.997	5160.00*	100.00	1.081E+003	5.668E+001
AM-241	0.998	5485.70*	99.00	9.514E+002	1.740E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:17:14 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

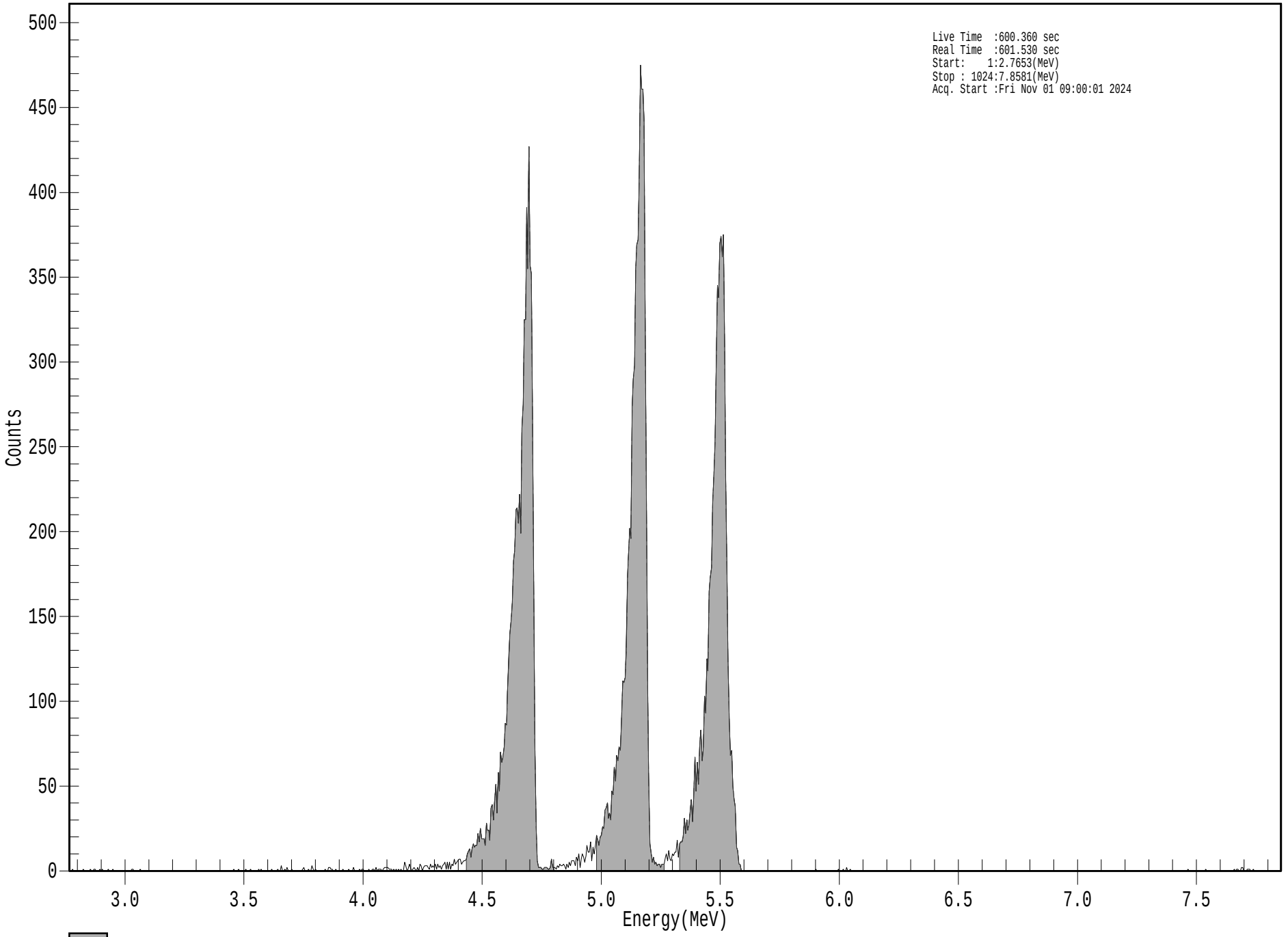
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

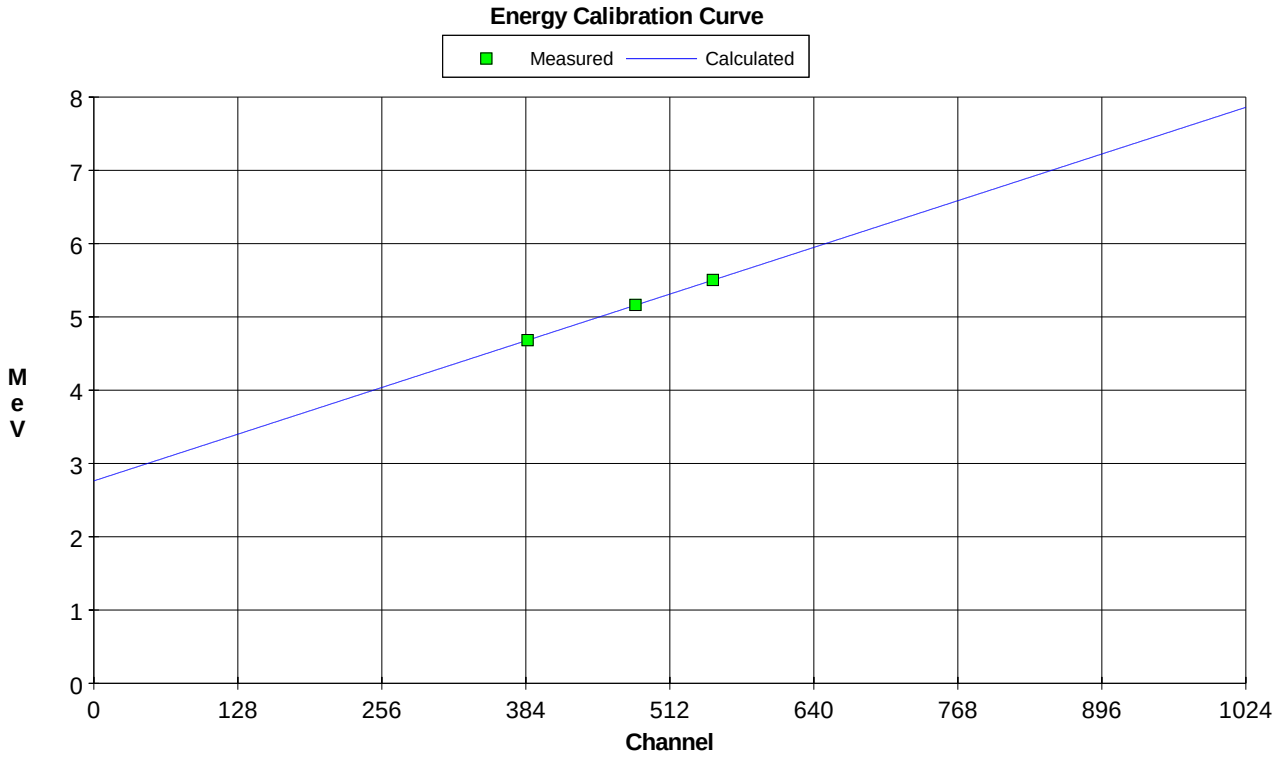
Errors quoted at 1.000 sigma

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Detector DET10

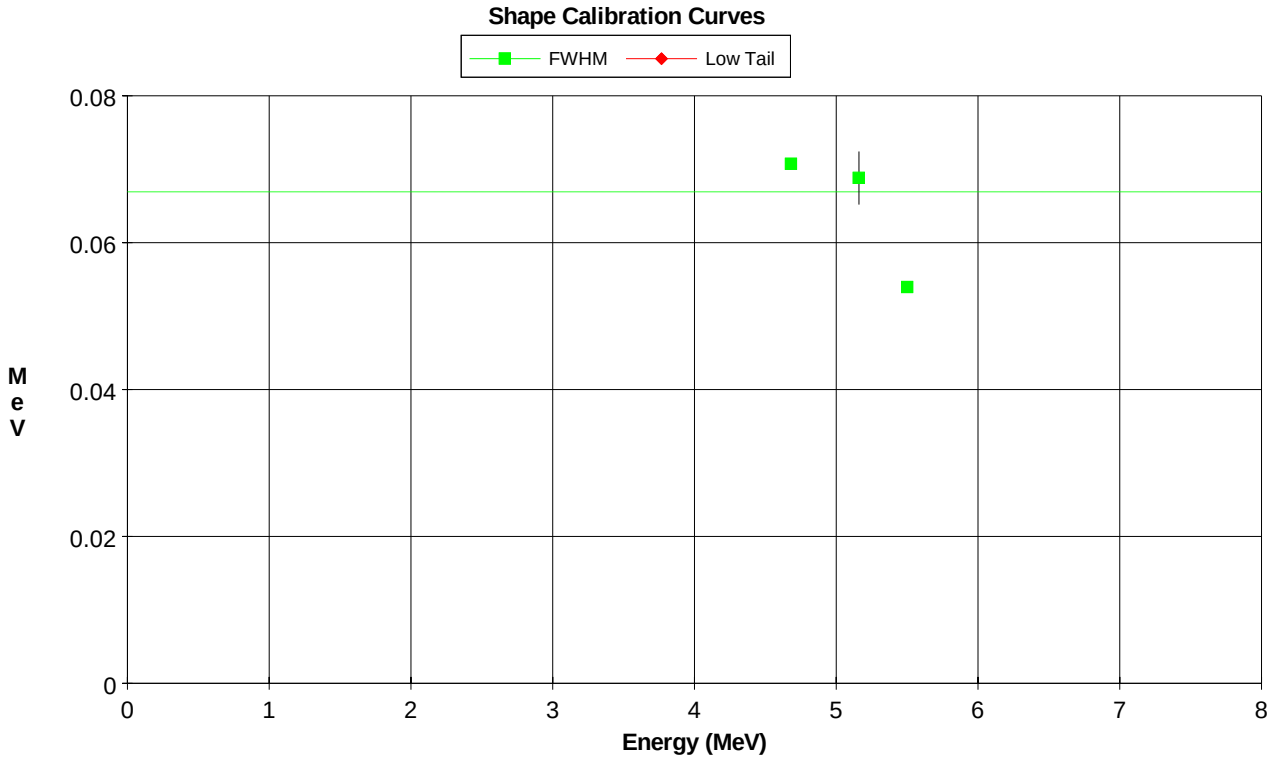


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Datasource: DET10
Energy = 2.760e+000 MeV + 4.978e-003*Ch
FWHM = 6.692e-002 MeV

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Datasource: DET10
Energy = 2.760e+000 MeV + 4.978e-003*Ch
FWHM = 6.692e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET11
Sample Title: DET 11 SC 110124
Peak Analysis Performed on: 11/1/2024 9:17:35 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	398	370.12	4607.01	84.34	6.40E+003	79.97	0.00E+000
2	430-	481	463.91	5128.14	62.05	6.41E+003	80.06	0.00E+000
3	494-	546	530.64	5498.93	67.37	5.68E+003	75.39	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 11 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.996	4687.60*	99.70	1.214E+003	2.985E+001
PU-239	0.999	5160.00*	100.00	1.213E+003	6.749E+001
AM-241	1.000	5485.70*	99.00	1.087E+003	2.834E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:17:35 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

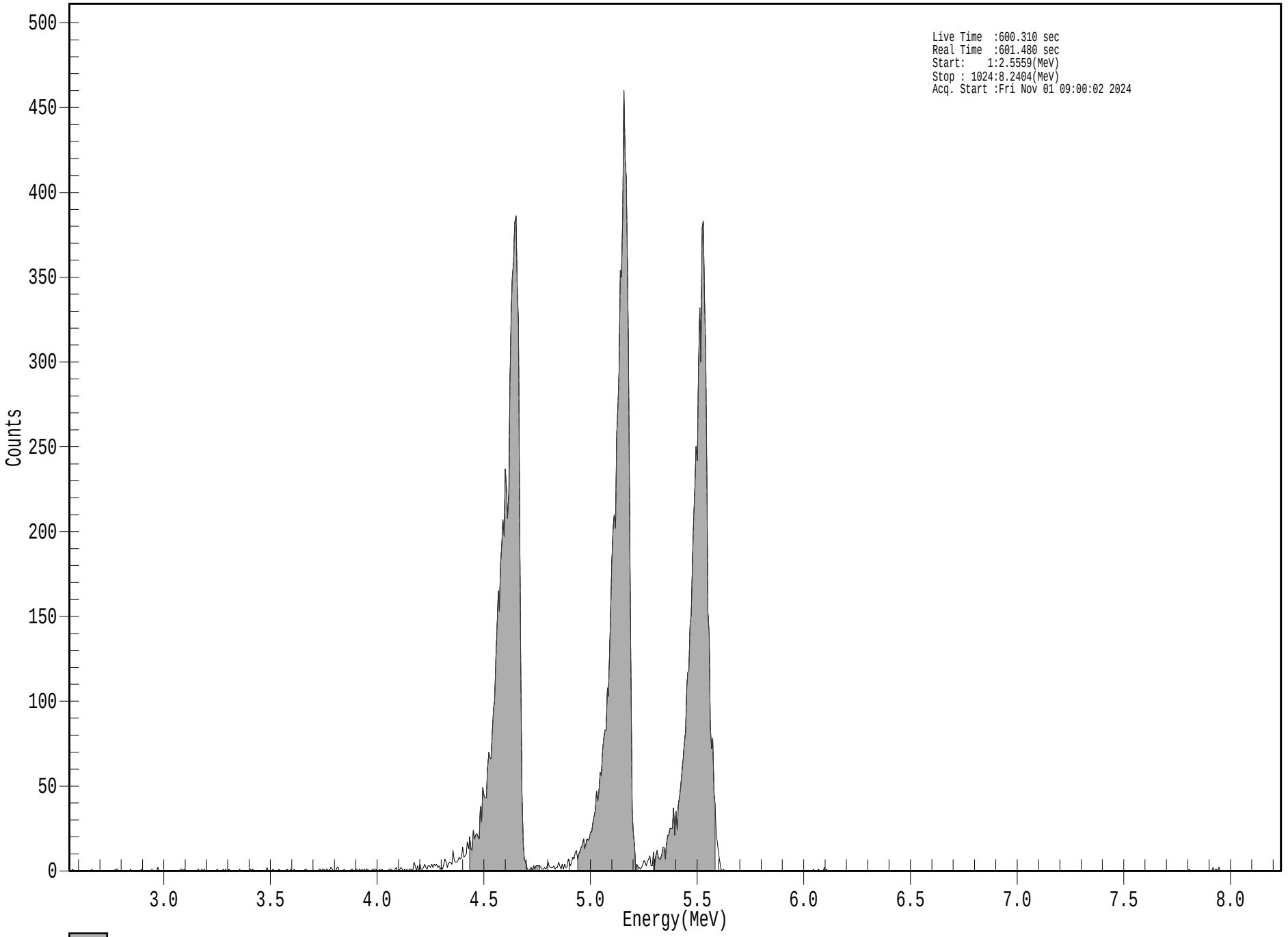
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

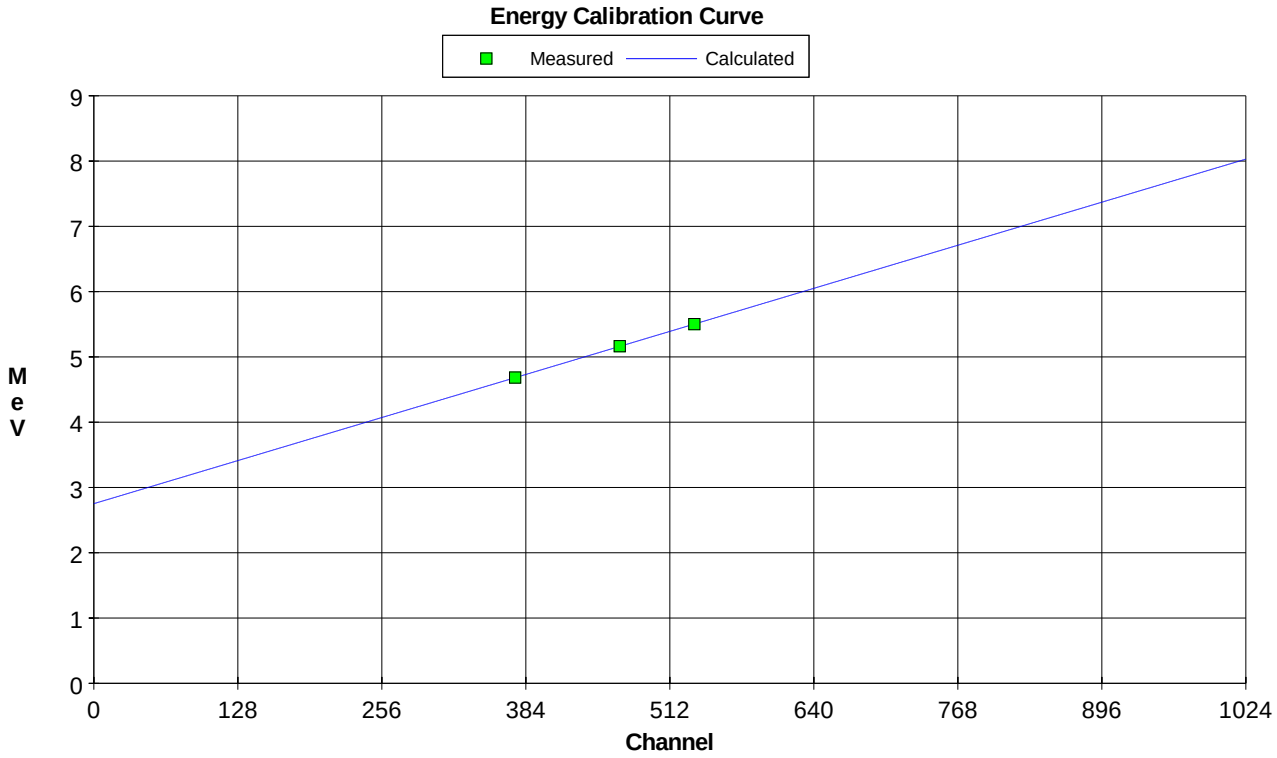
Errors quoted at 1.000 sigma

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Detector DET11

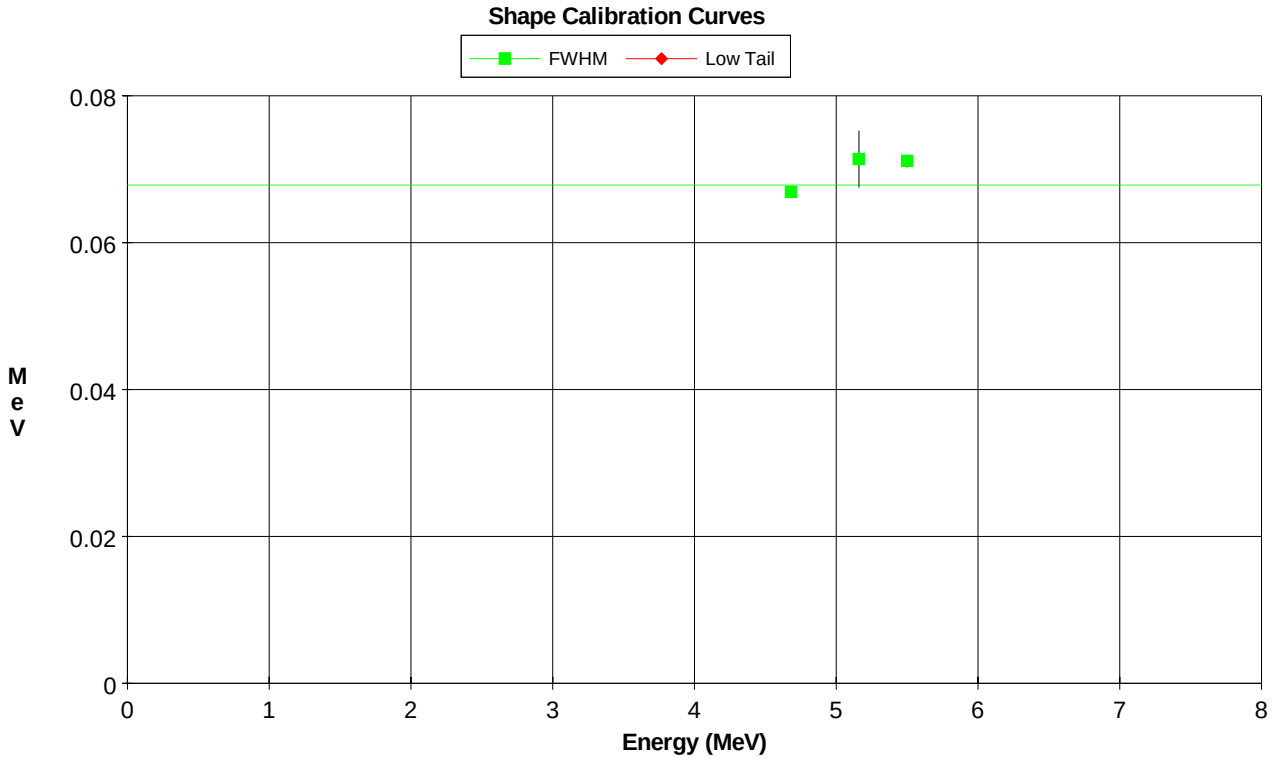


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Datasource: DET11
Energy = 2.750e+000 MeV + 5.154e-003*Ch
FWHM = 6.781e-002 MeV

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Datasource: DET11
Energy = 2.750e+000 MeV + 5.154e-003*Ch
FWHM = 6.781e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET13
Sample Title: DET 13 SC 110124
Peak Analysis Performed on: 11/1/2024 9:17:54 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	406-	477	450.70	4638.97	43.64	6.09E+003	78.06	0.00E+000
2	516-	578	555.77	5123.25	55.80	5.98E+003	77.33	0.00E+000
3	593-	656	630.33	5466.92	52.16	5.39E+003	73.40	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 13 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.998	4687.60*	99.70	1.066E+003	2.625E+001
PU-239	0.999	5160.00*	100.00	1.043E+003	5.810E+001
AM-241	1.000	5485.70*	99.00	9.495E+002	2.483E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:17:54 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

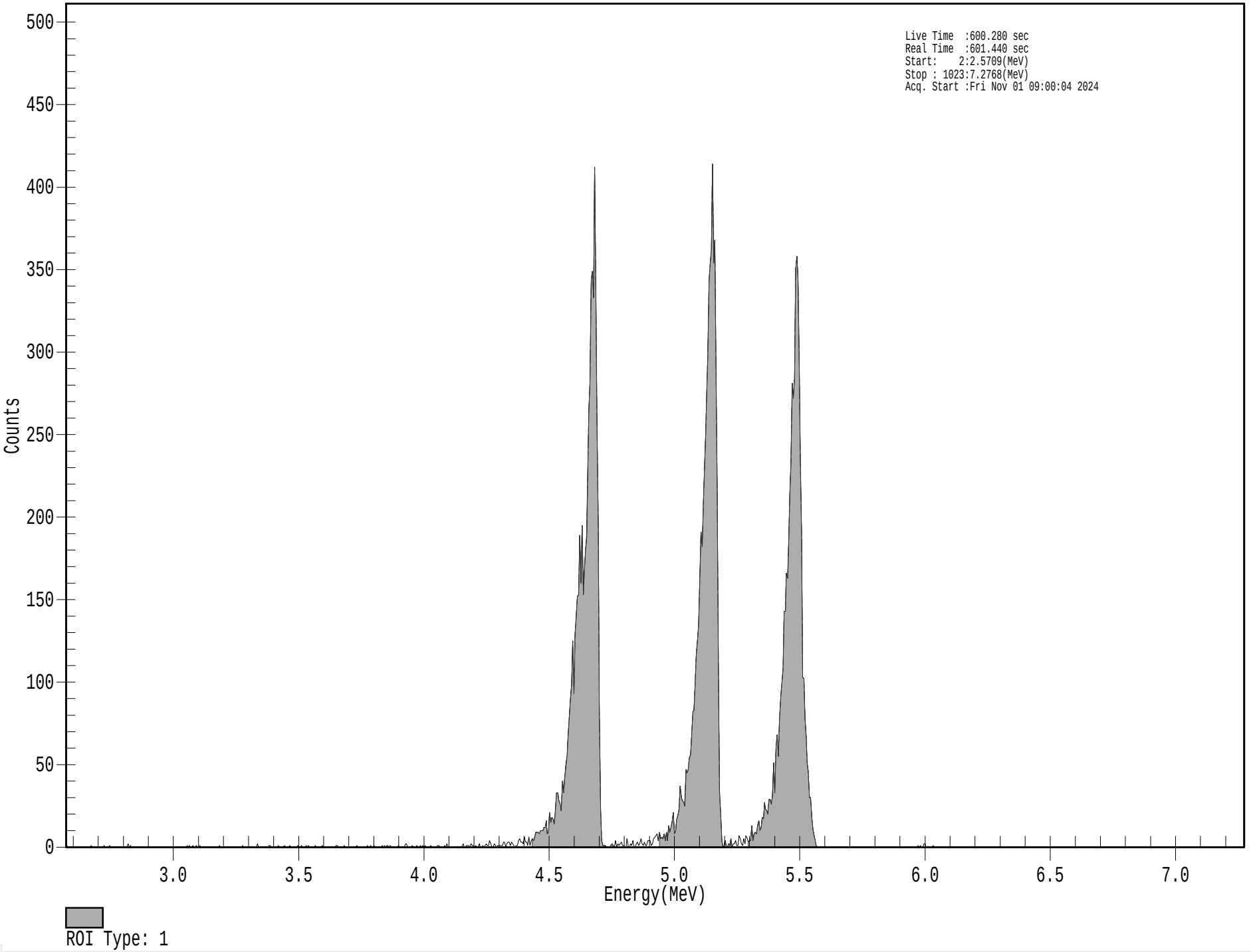
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

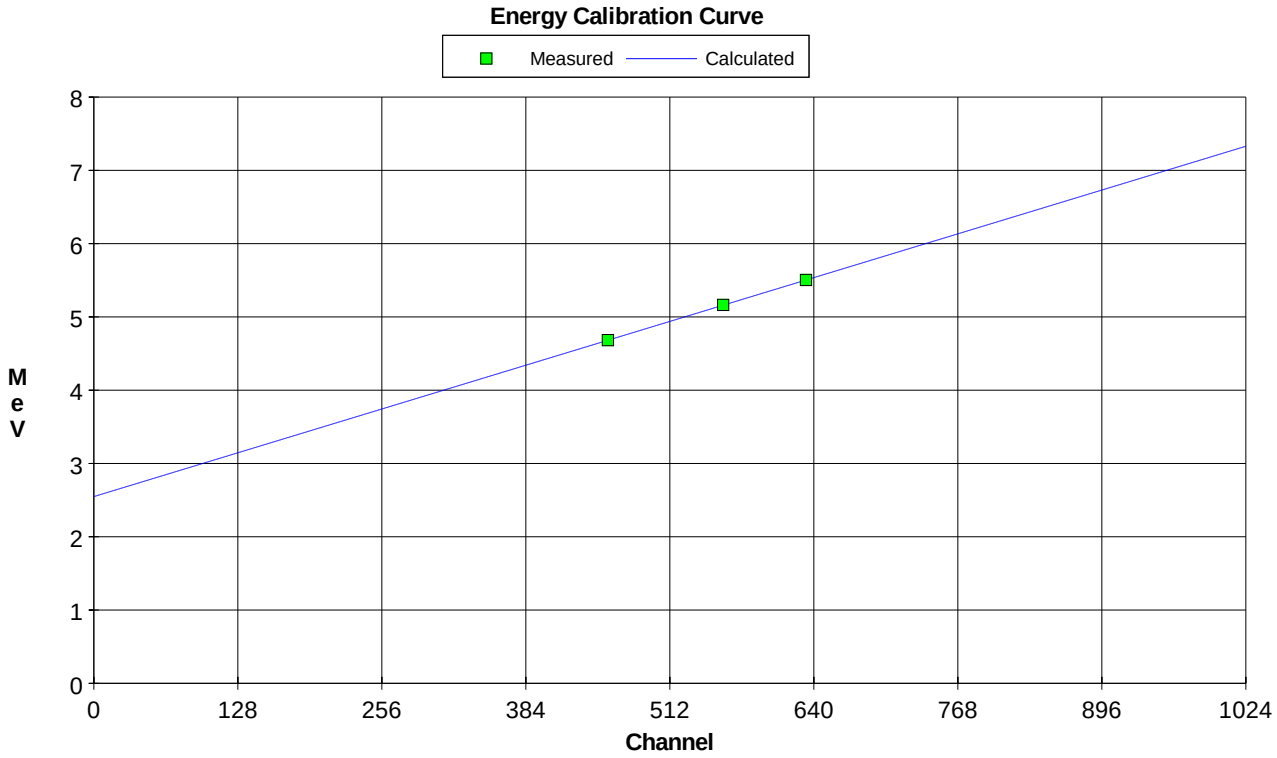
Errors quoted at 1.000 sigma

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Detector DET13

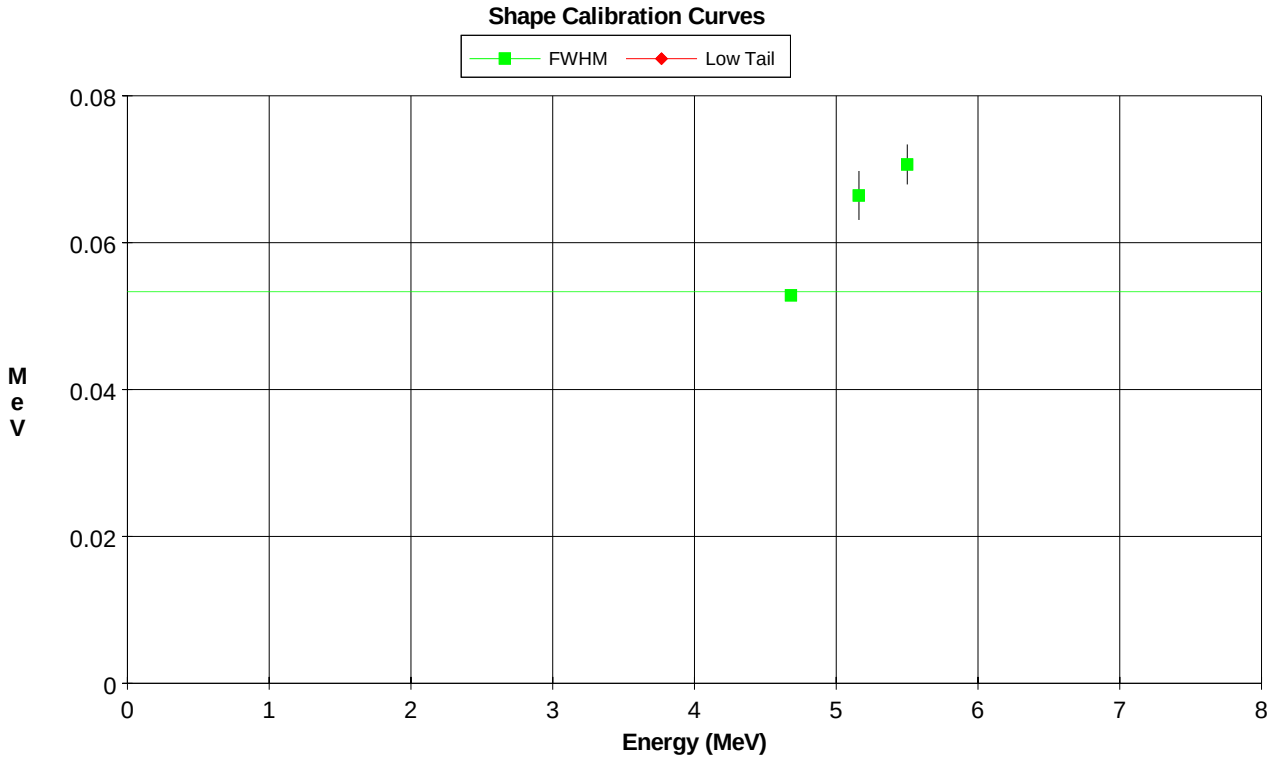


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Datasource: DET13
Energy = 2.546e+000 MeV + 4.668e-003*Ch
FWHM = 5.333e-002 MeV

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Datasource: DET13
Energy = 2.546e+000 MeV + 4.668e-003*Ch
FWHM = 5.333e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET14
Sample Title: DET 14 SC 110124
Peak Analysis Performed on: 11/1/2024 9:18:17 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	303-	363	332.70	4594.97	57.25	5.91E+003	76.90	0.00E+000
2	395-	447	424.42	5097.89	70.10	5.71E+003	75.57	0.00E+000
3	460-	513	489.81	5456.47	65.02	5.17E+003	71.89	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 14 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.995	4687.60*	99.70	9.756E+002	2.402E+001
PU-239	0.998	5160.00*	100.00	9.393E+002	5.232E+001
AM-241	0.999	5485.70*	99.00	8.585E+002	2.250E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:18:17 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

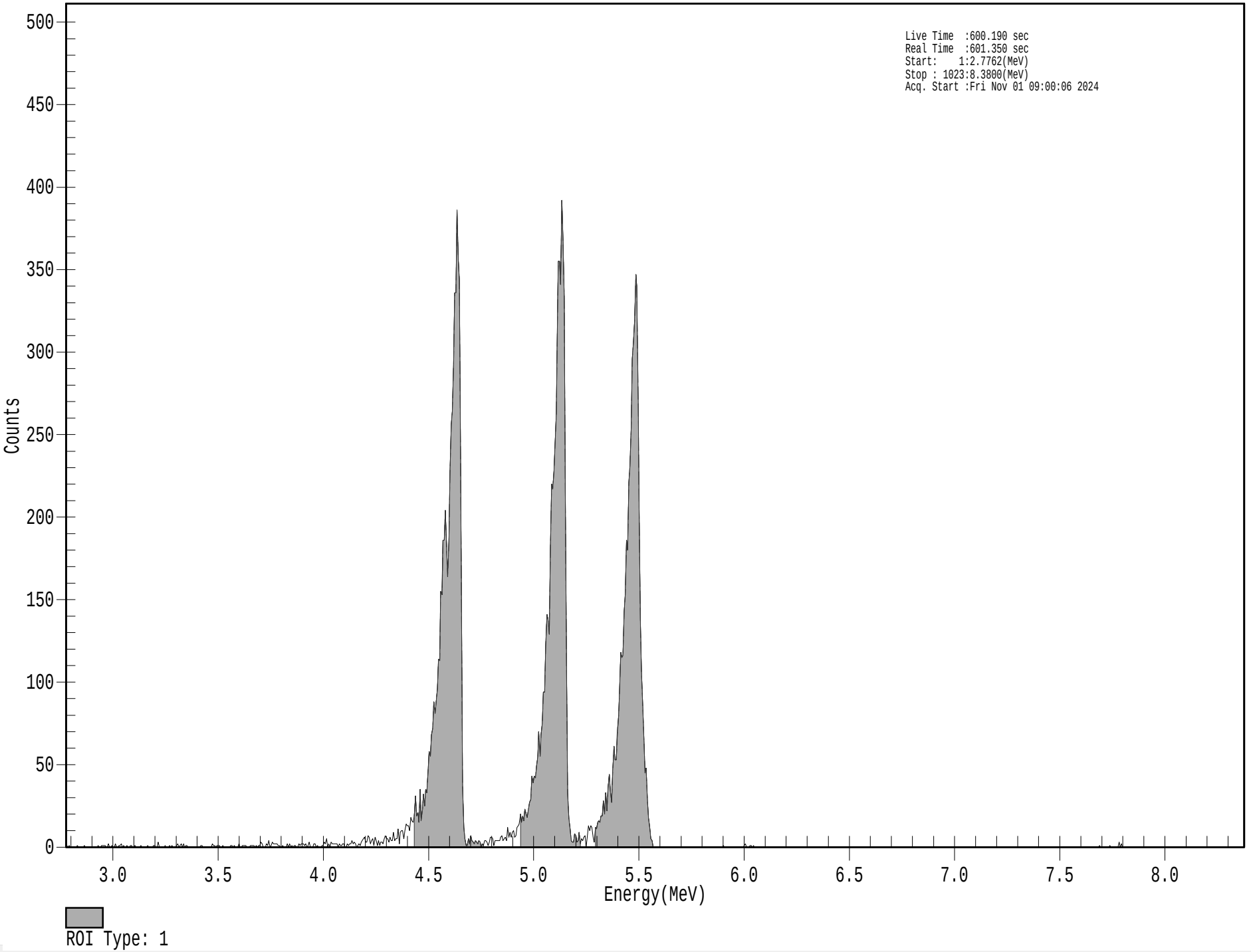
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

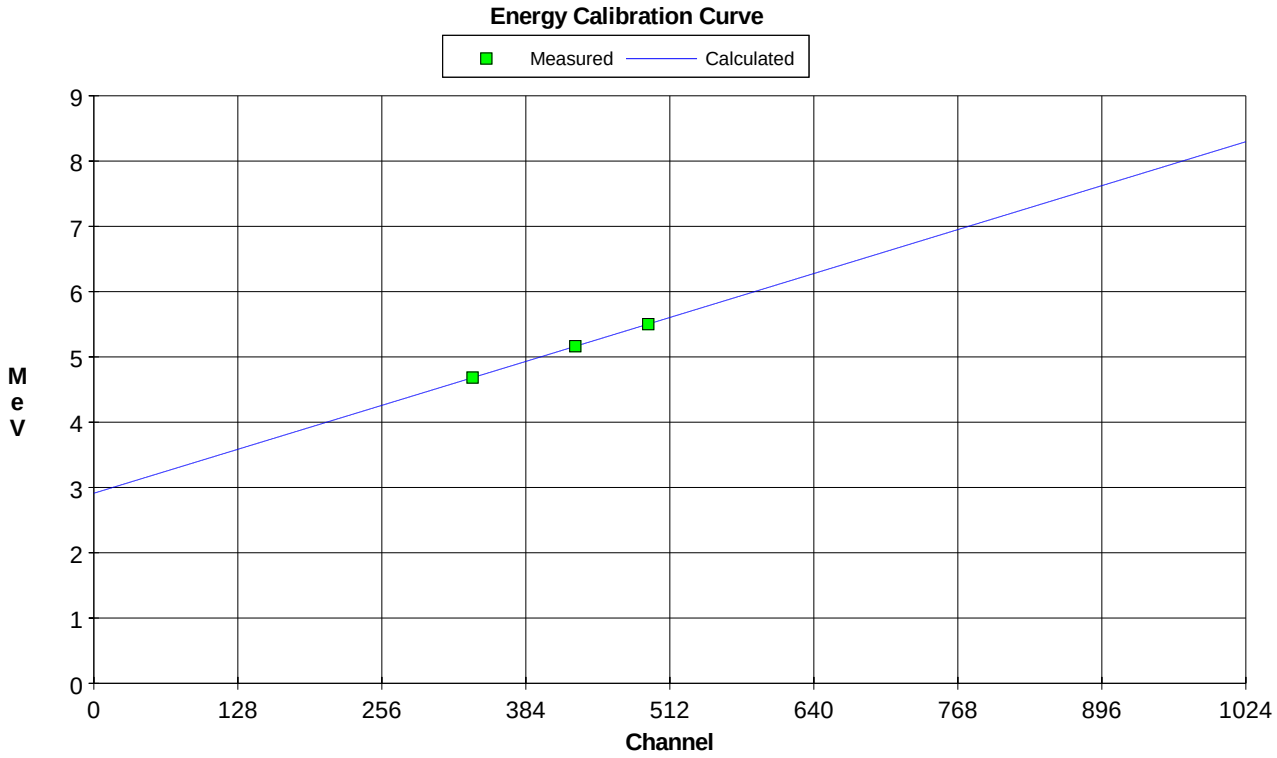
Errors quoted at 1.000 sigma

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Detector DET14

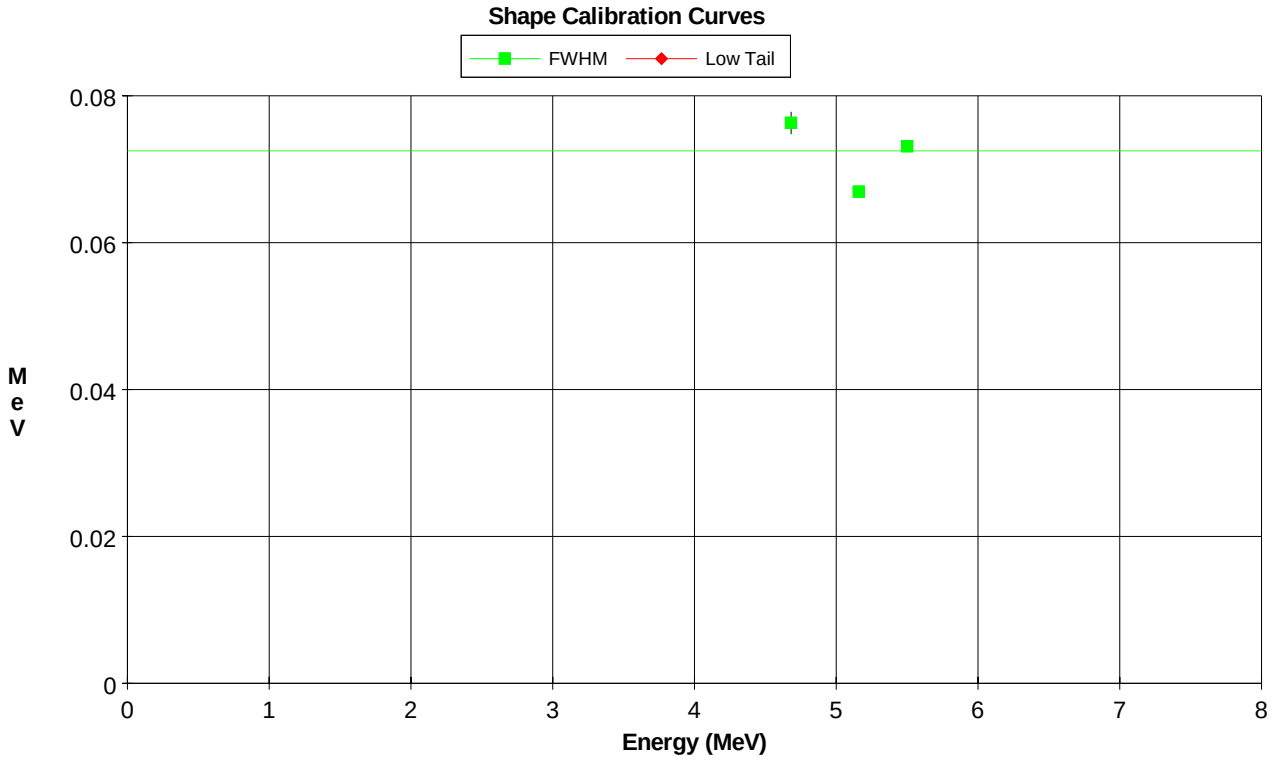


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Datasource: DET14
Energy = 2.909e+000 MeV + 5.259e-003*Ch
FWHM = 7.248e-002 MeV

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Datasource: DET14
Energy = 2.909e+000 MeV + 5.259e-003*Ch
FWHM = 7.248e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET19
Sample Title: DET 19 SC 110124
Peak Analysis Performed on: 11/1/2024 9:18:37 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	356-	424	403.92	4661.91	56.60	6.37E+003	79.80	0.00E+000
2	461-	521	504.25	5143.70	54.91	6.57E+003	81.08	0.00E+000
3	536-	596	576.10	5488.75	57.67	6.02E+003	77.60	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 19 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.966E+002	1.453E+001
PU-239	1.000	5160.00*	100.00	1.026E+003	5.328E+001
AM-241	1.000	5485.70*	99.00	9.491E+002	1.582E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:18:37 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

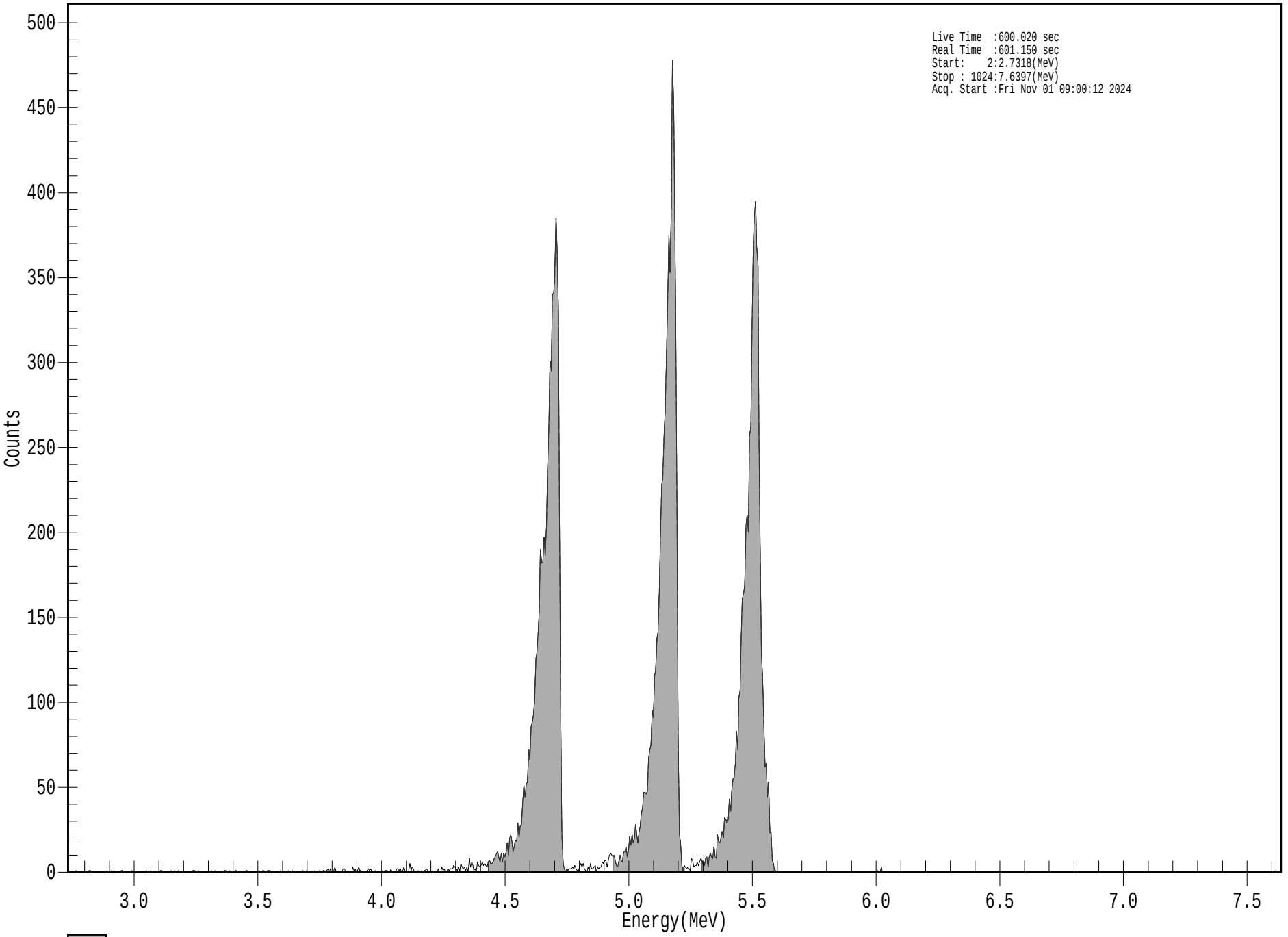
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

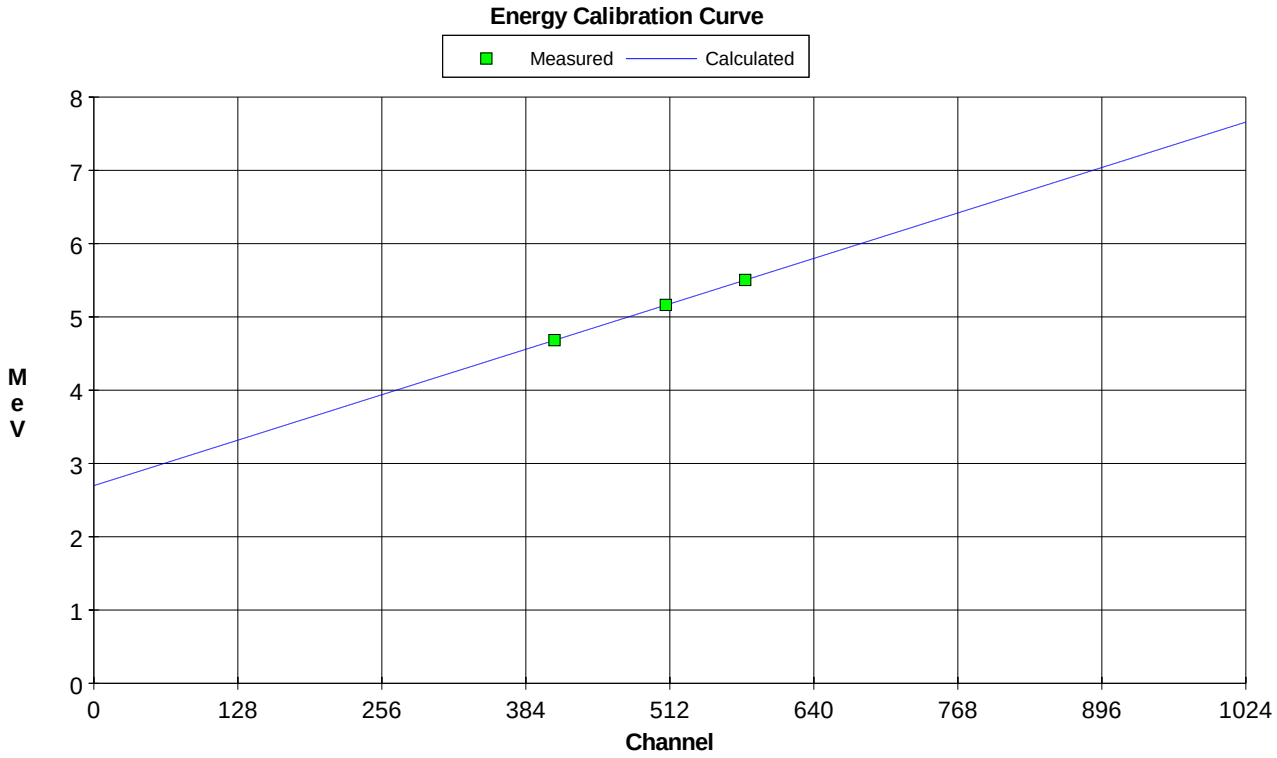
Errors quoted at 1.000 sigma

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Detector DET19

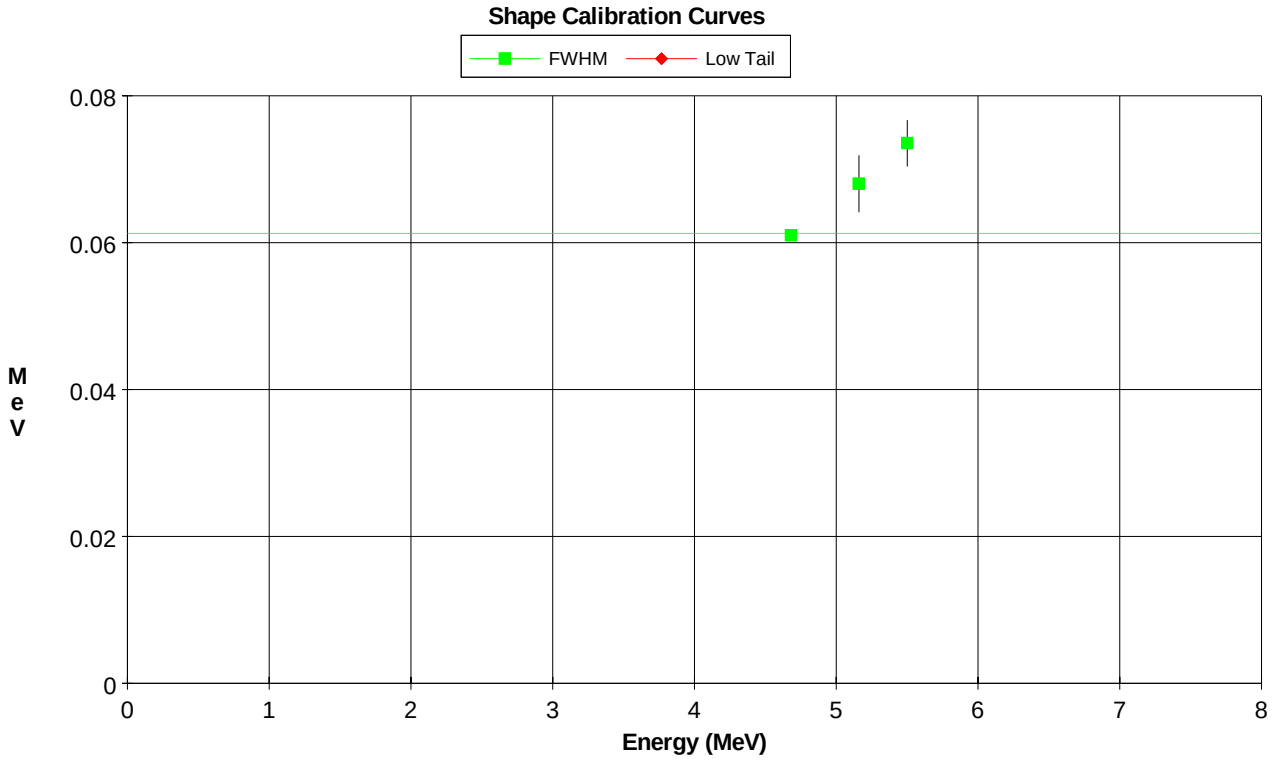


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Datasource: DET19
Energy = 2.696e+000 MeV + 4.845e-003*Ch
FWHM = 6.125e-002 MeV

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Datasource: DET19
Energy = 2.696e+000 MeV + 4.845e-003*Ch
FWHM = 6.125e-002 MeV

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***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET20
Sample Title: DET 20 SC 110124
Peak Analysis Performed on: 11/1/2024 9:19:00 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	340-	408	388.20	4664.38	72.31	5.54E+003	74.42	0.00E+000
2	445-	504	485.08	5133.25	60.06	5.59E+003	74.78	0.00E+000
3	518-	579	553.47	5464.22	58.43	4.82E+003	69.42	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 20 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.463E+002	1.358E+001
PU-239	1.000	5160.00*	100.00	9.525E+002	4.945E+001
AM-241	1.000	5485.70*	99.00	8.291E+002	1.410E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:19:00 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

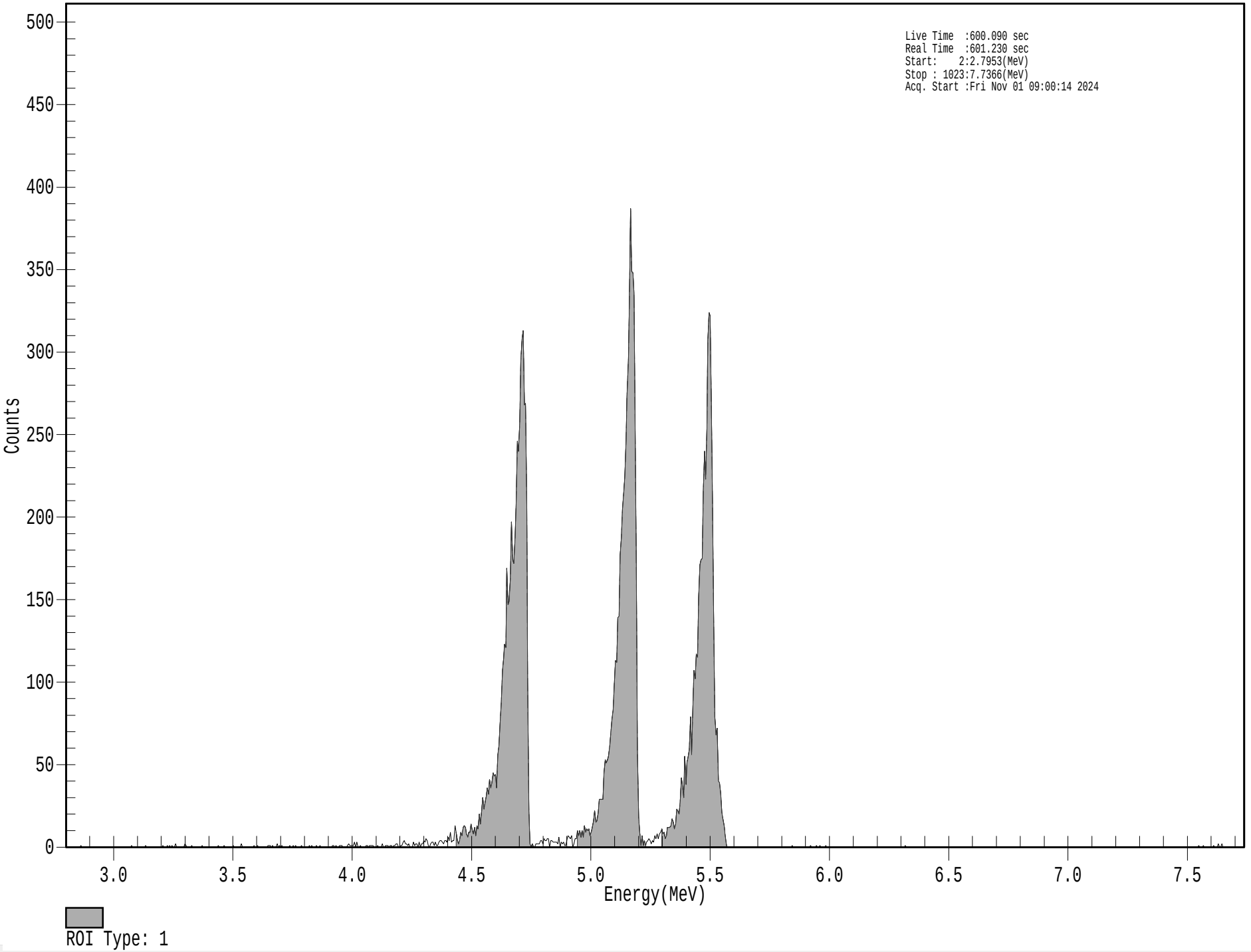
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

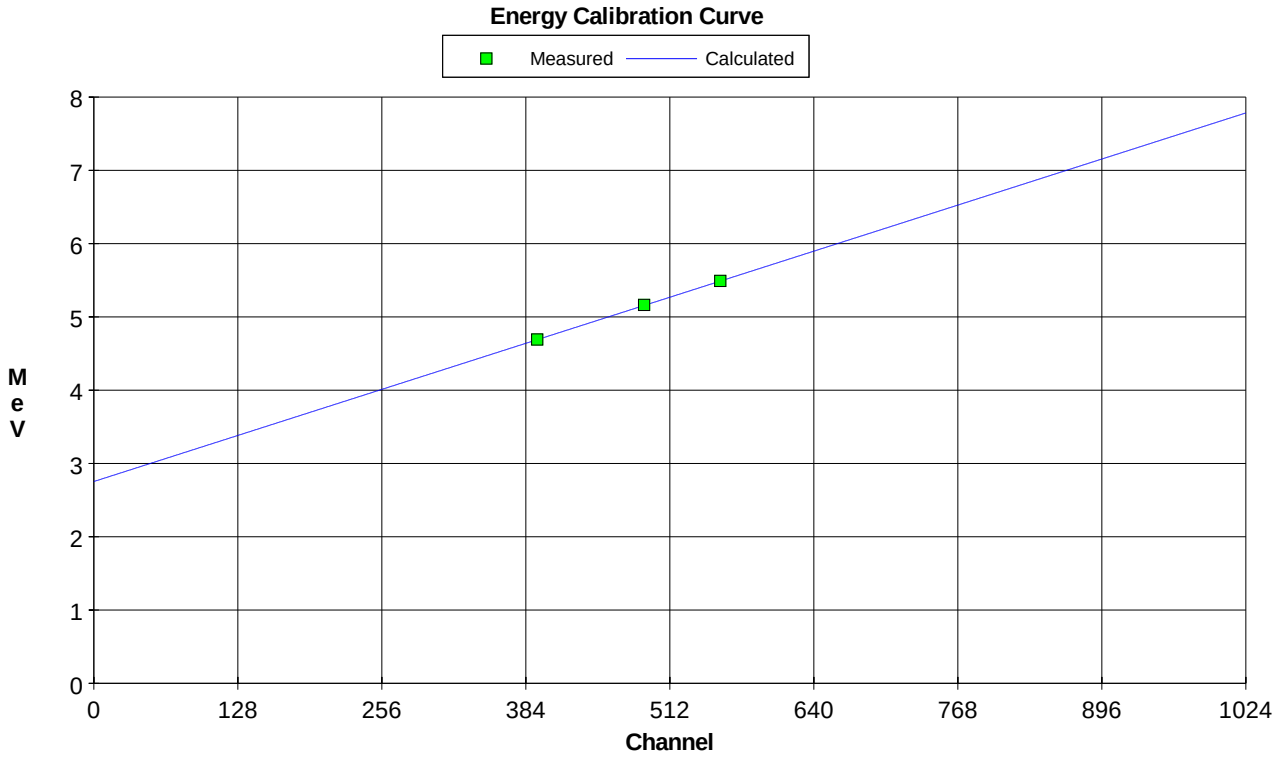
Errors quoted at 1.000 sigma

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Detector DET20

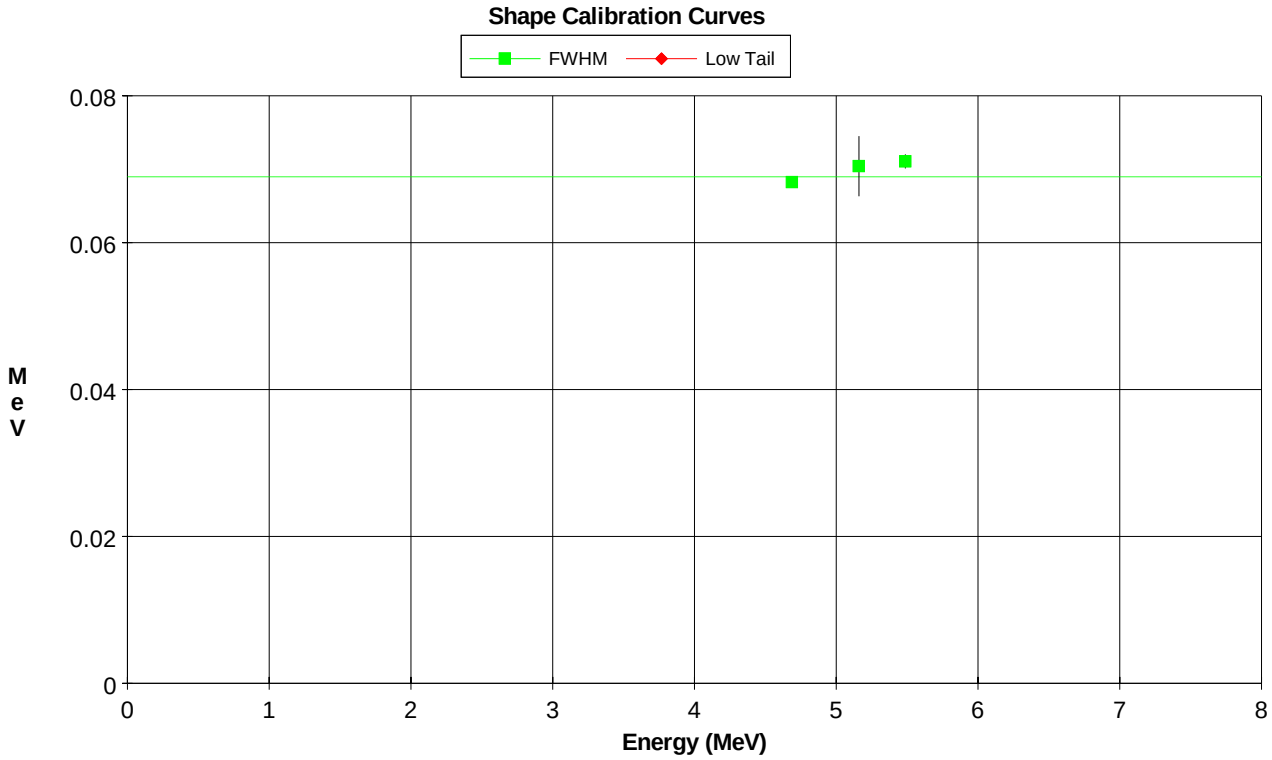


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Datasource: DET20
Energy = 2.752e+000 MeV + 4.912e-003*Ch
FWHM = 6.895e-002 MeV

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Datasource: DET20
Energy = 2.752e+000 MeV + 4.912e-003*Ch
FWHM = 6.895e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET21
Sample Title: DET 21 SC 110124
Peak Analysis Performed on: 11/1/2024 9:19:23 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	352-	417	395.26	4652.29	63.91	7.11E+003	84.33	0.00E+000
2	452-	509	489.97	5126.83	64.50	6.93E+003	83.27	0.00E+000
3	523-	582	557.14	5463.40	64.51	6.55E+003	80.92	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 21 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.055E+003	1.326E+001
PU-239	0.999	5160.00*	100.00	1.025E+003	5.281E+001
AM-241	1.000	5485.70*	99.00	9.781E+002	1.472E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:19:23 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

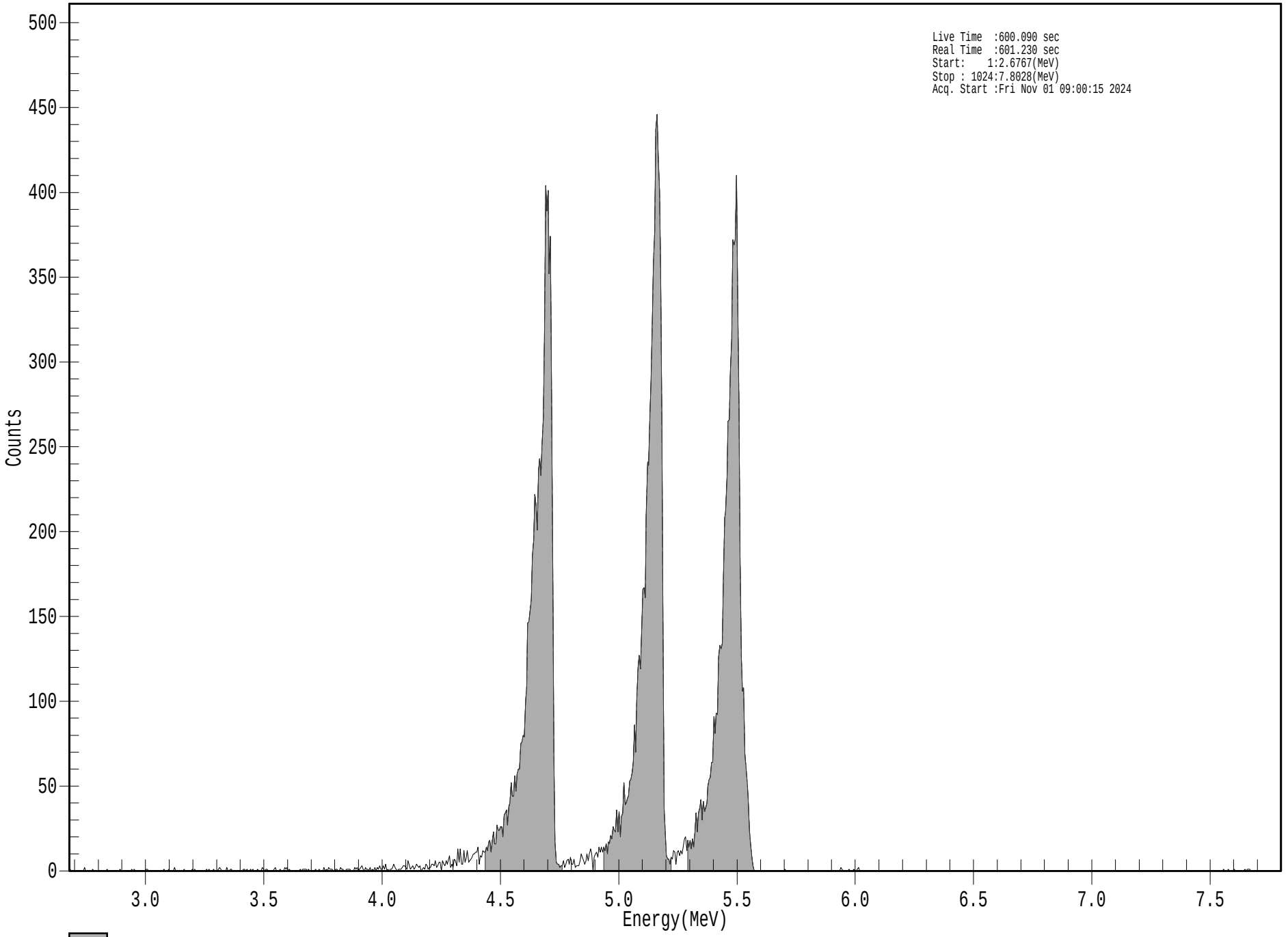
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

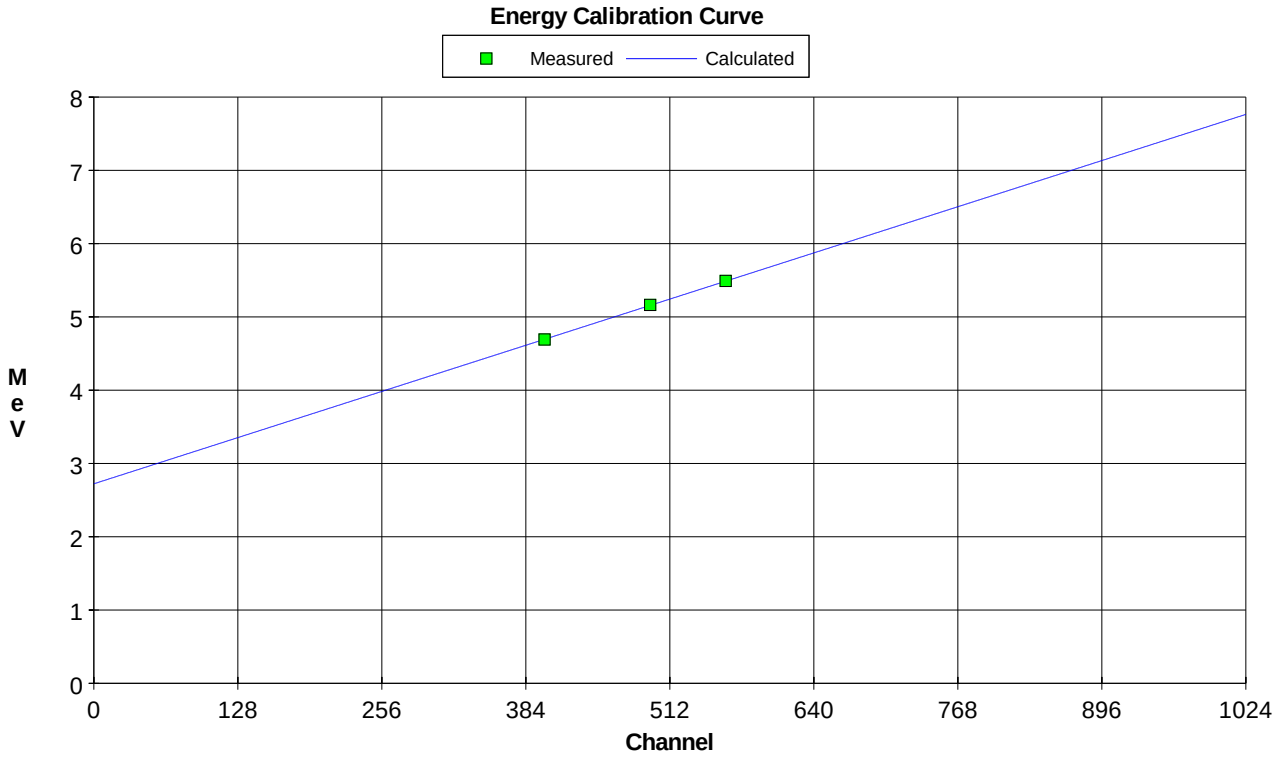
Errors quoted at 1.000 sigma

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Detector DET21

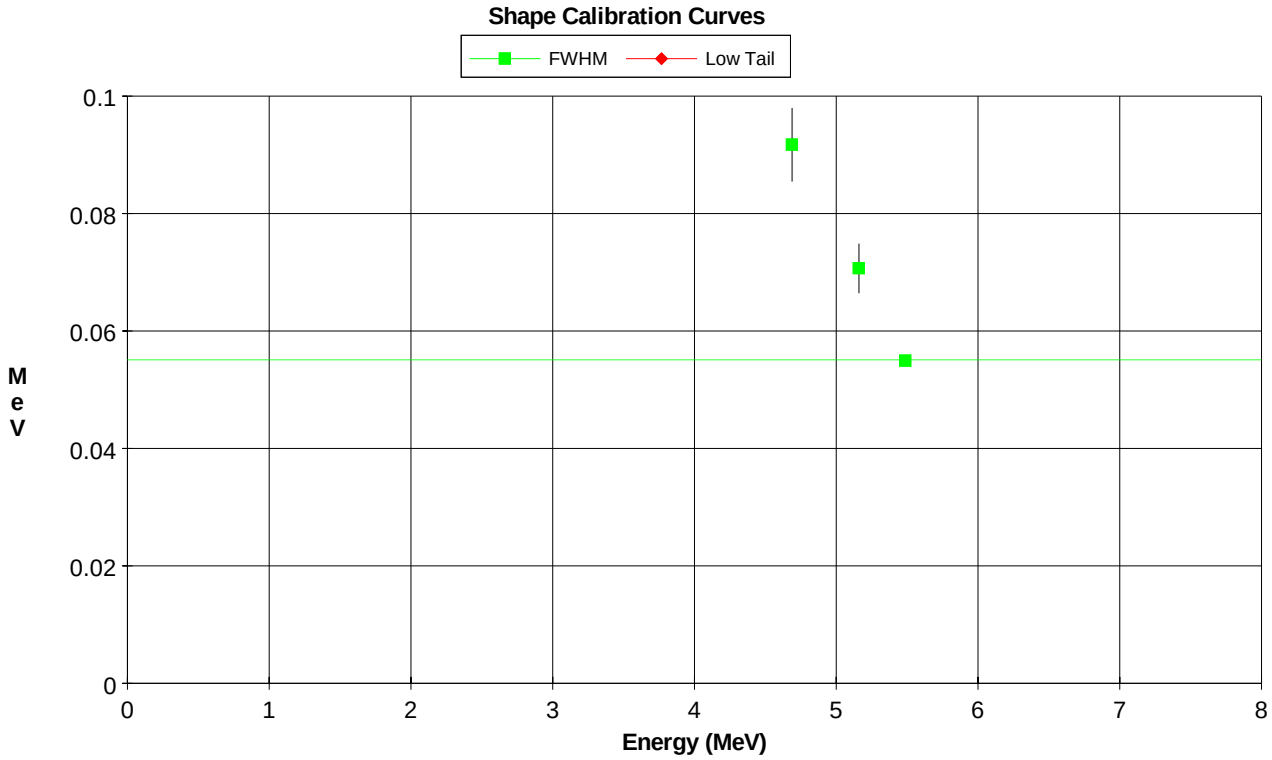


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Datasource: DET21
Energy = 2.721e+000 MeV + 4.923e-003*Ch
FWHM = 5.509e-002 MeV

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Datasource: DET21
Energy = 2.721e+000 MeV + 4.923e-003*Ch
FWHM = 5.509e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET23
Sample Title: DET 23 SC 110124
Peak Analysis Performed on: 11/1/2024 9:19:42 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	349-	414	395.83	4668.30	50.92	6.41E+003	80.07	0.00E+000
2	449-	507	491.08	5146.53	55.78	6.22E+003	78.87	0.00E+000
3	520-	579	558.38	5484.41	61.72	5.65E+003	75.15	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 23 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.089E+003	1.434E+001
PU-239	1.000	5160.00*	100.00	1.054E+003	5.444E+001
AM-241	1.000	5485.70*	99.00	9.665E+002	1.530E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:19:42 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

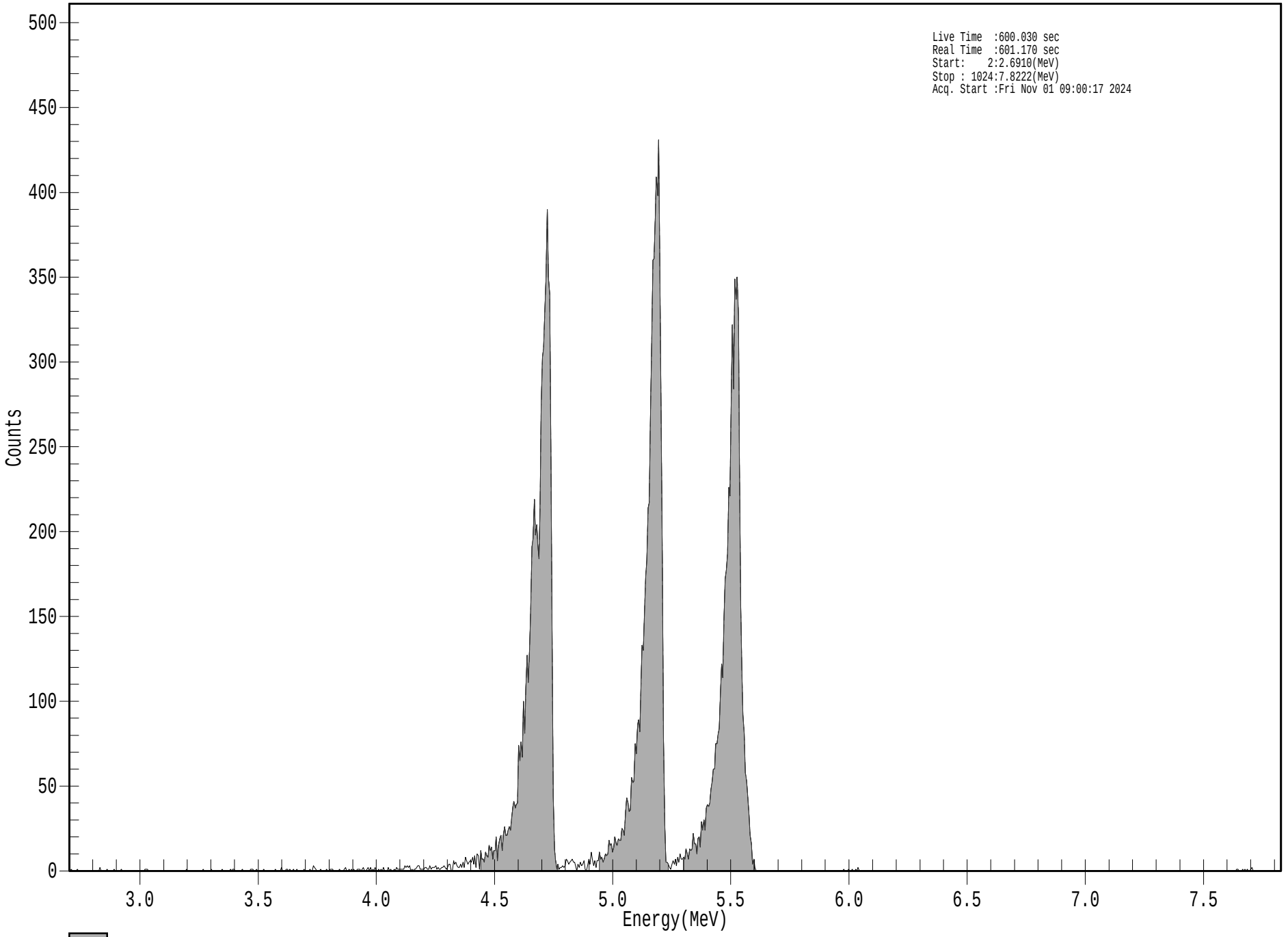
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

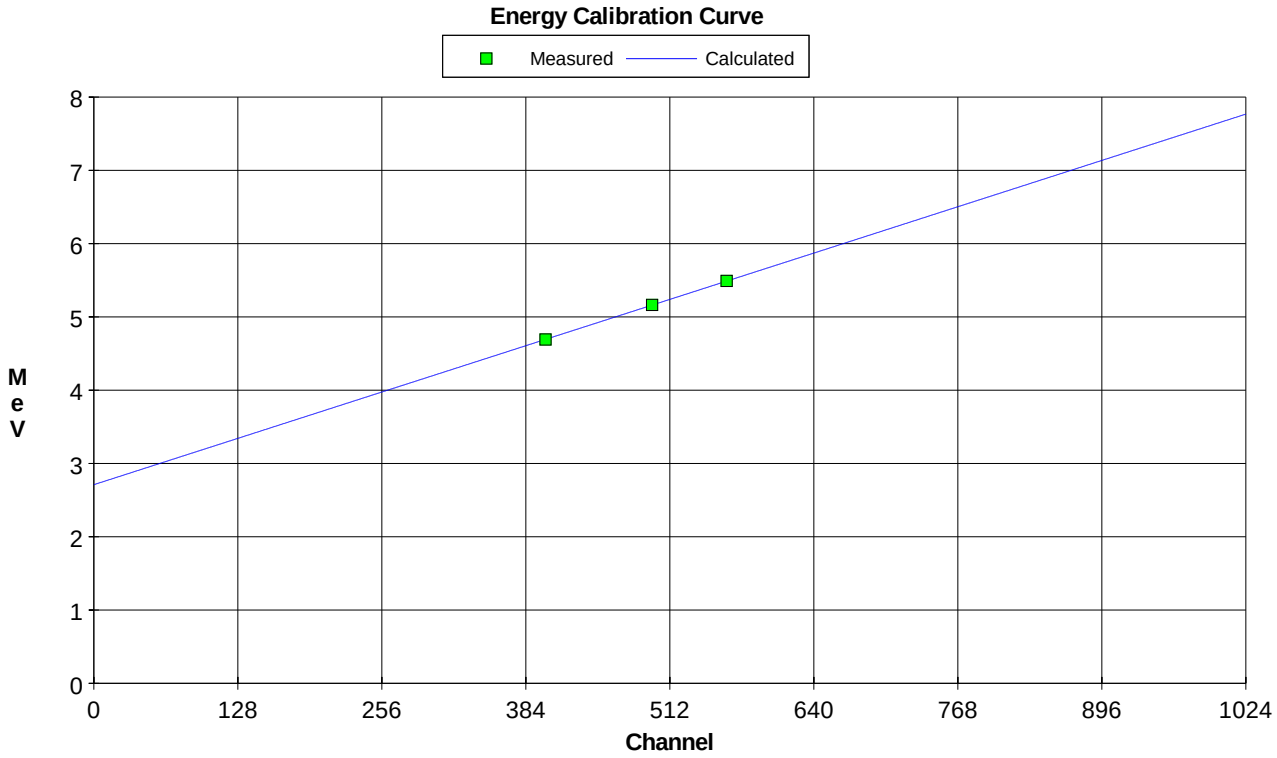
Errors quoted at 1.000 sigma

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Detector DET23

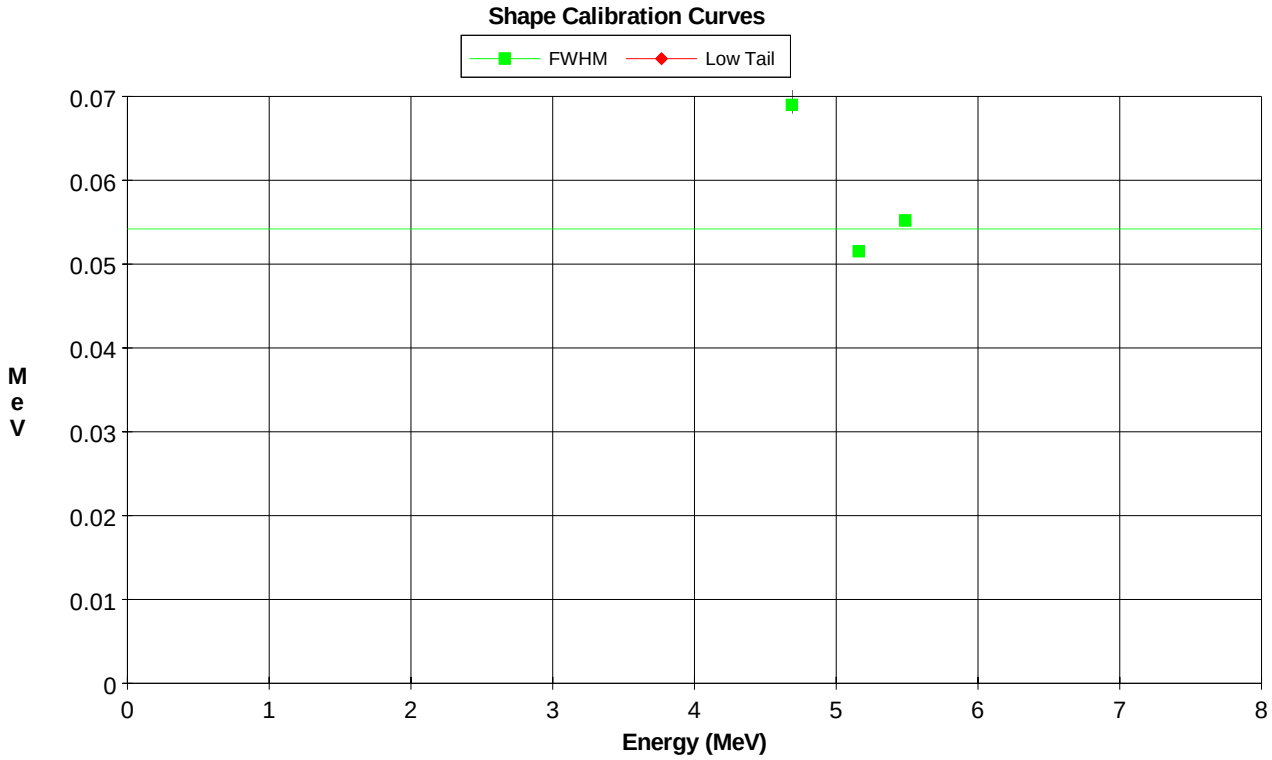


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Datasource: DET23
Energy = 2.709e+000 MeV + 4.938e-003*Ch
FWHM = 5.417e-002 MeV

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Datasource: DET23
Energy = 2.709e+000 MeV + 4.938e-003*Ch
FWHM = 5.417e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET24
Sample Title: DET 24 SC 110124
Peak Analysis Performed on: 11/1/2024 9:20:03 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	295-	358	341.02	4672.51	52.11	5.85E+003	76.50	0.00E+000
2	392-	447	431.57	5142.08	62.56	5.71E+003	75.54	0.00E+000
3	461-	517	495.84	5475.36	59.70	5.17E+003	71.89	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 24 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.009E+003	1.452E+001
PU-239	1.000	5160.00*	100.00	9.813E+002	5.101E+001
AM-241	1.000	5485.70*	99.00	8.977E+002	1.518E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 9:20:03 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

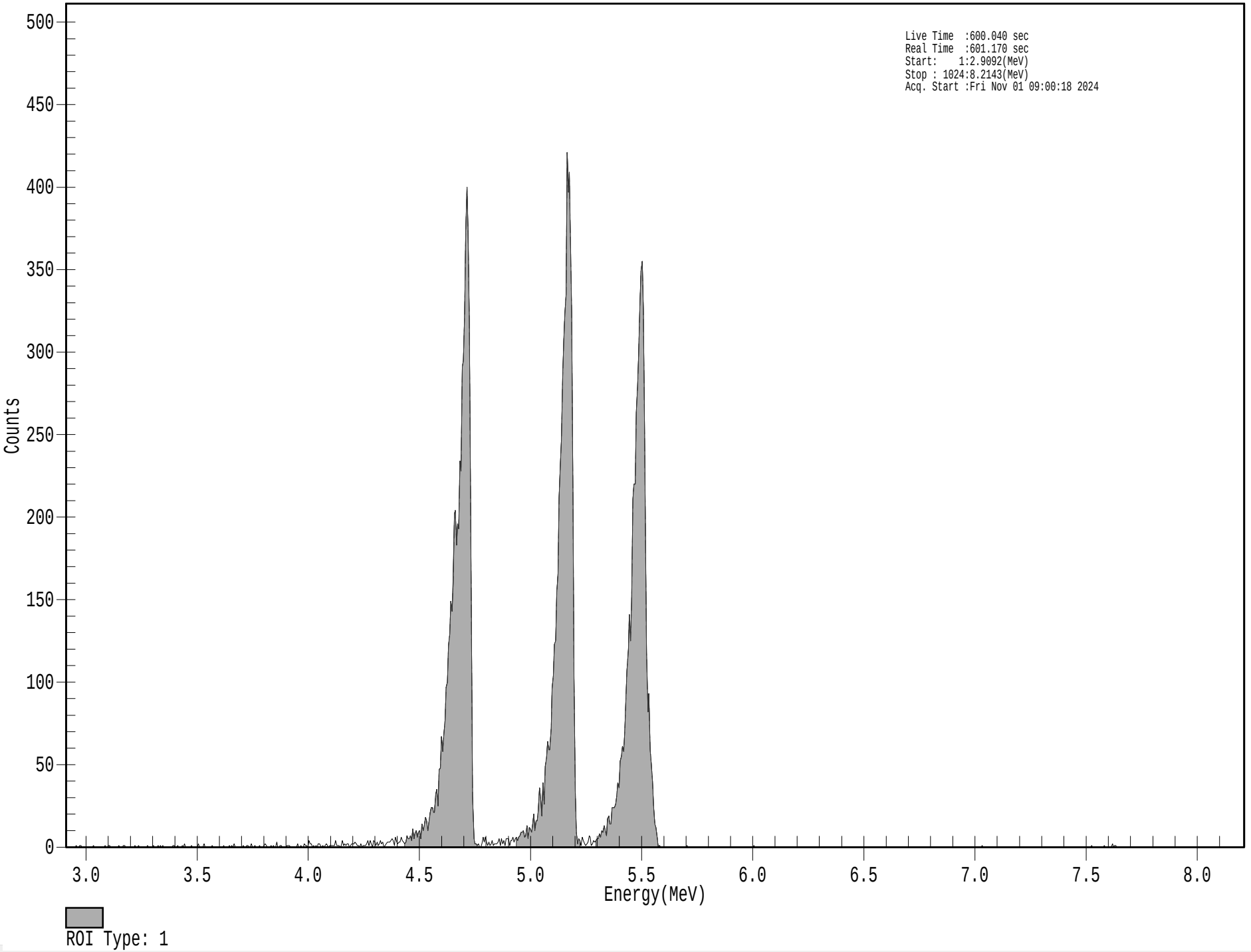
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

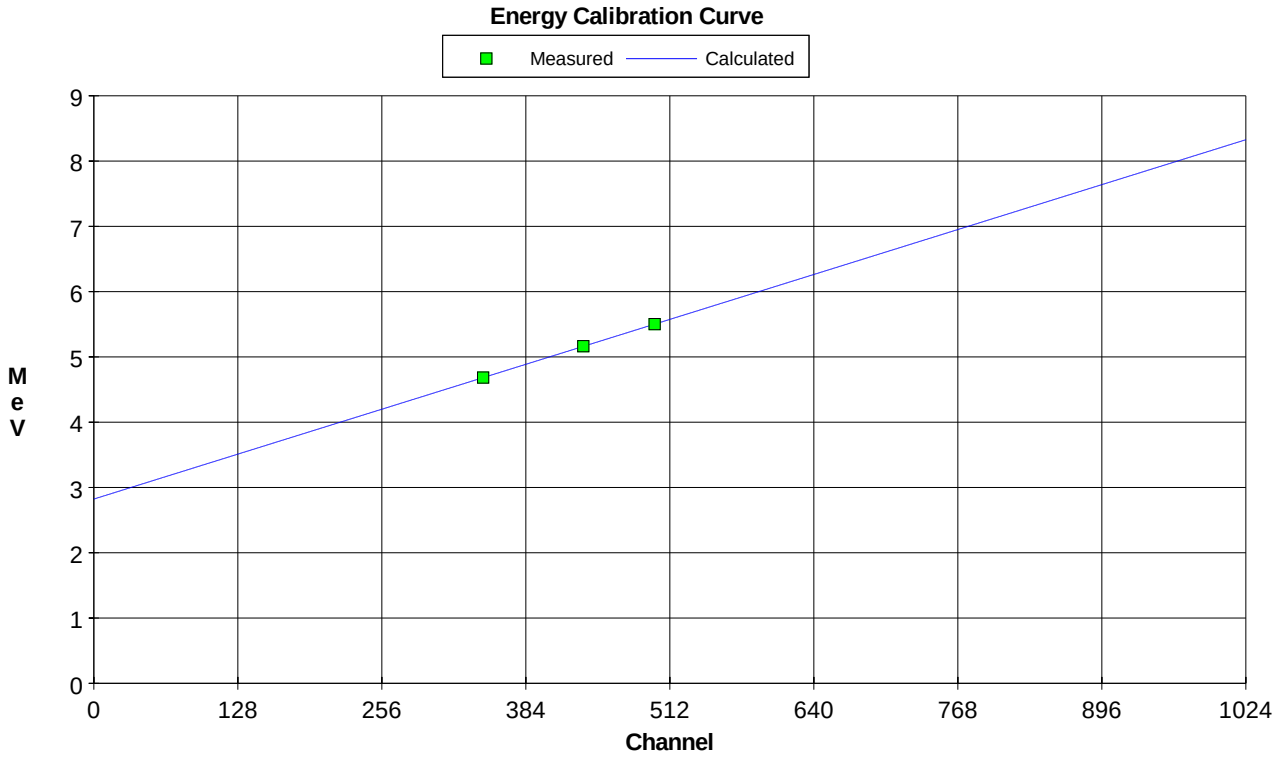
Errors quoted at 1.000 sigma

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Detector DET24

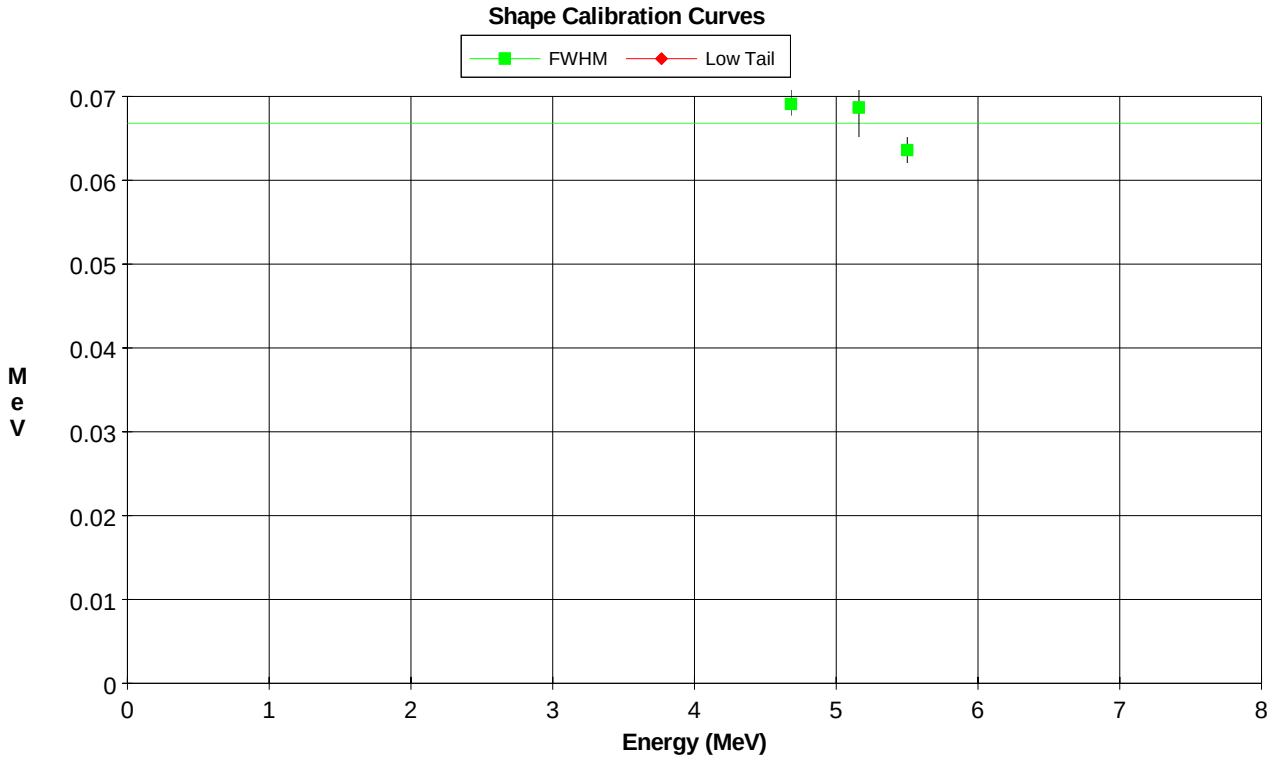


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Datasource: DET24
Energy = 2.820e+000 MeV + 5.375e-003*Ch
FWHM = 6.676e-002 MeV

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Datasource: DET24
Energy = 2.820e+000 MeV + 5.375e-003*Ch
FWHM = 6.676e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET25
Sample Title: DET 25 SC 110124
Peak Analysis Performed on: 11/1/2024 11:04:21 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	408-	482	460.73	4667.32	48.40	5.62E+003	74.98	0.00E+000
2	522-	587	567.31	5139.33	54.16	5.51E+003	74.22	0.00E+000
3	602-	668	642.25	5471.24	54.23	4.83E+003	69.49	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 25 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.101E+003	1.527E+001
PU-239	1.000	5160.00*	100.00	1.076E+003	5.576E+001
AM-241	1.000	5485.70*	99.00	9.525E+002	1.587E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:04:21 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

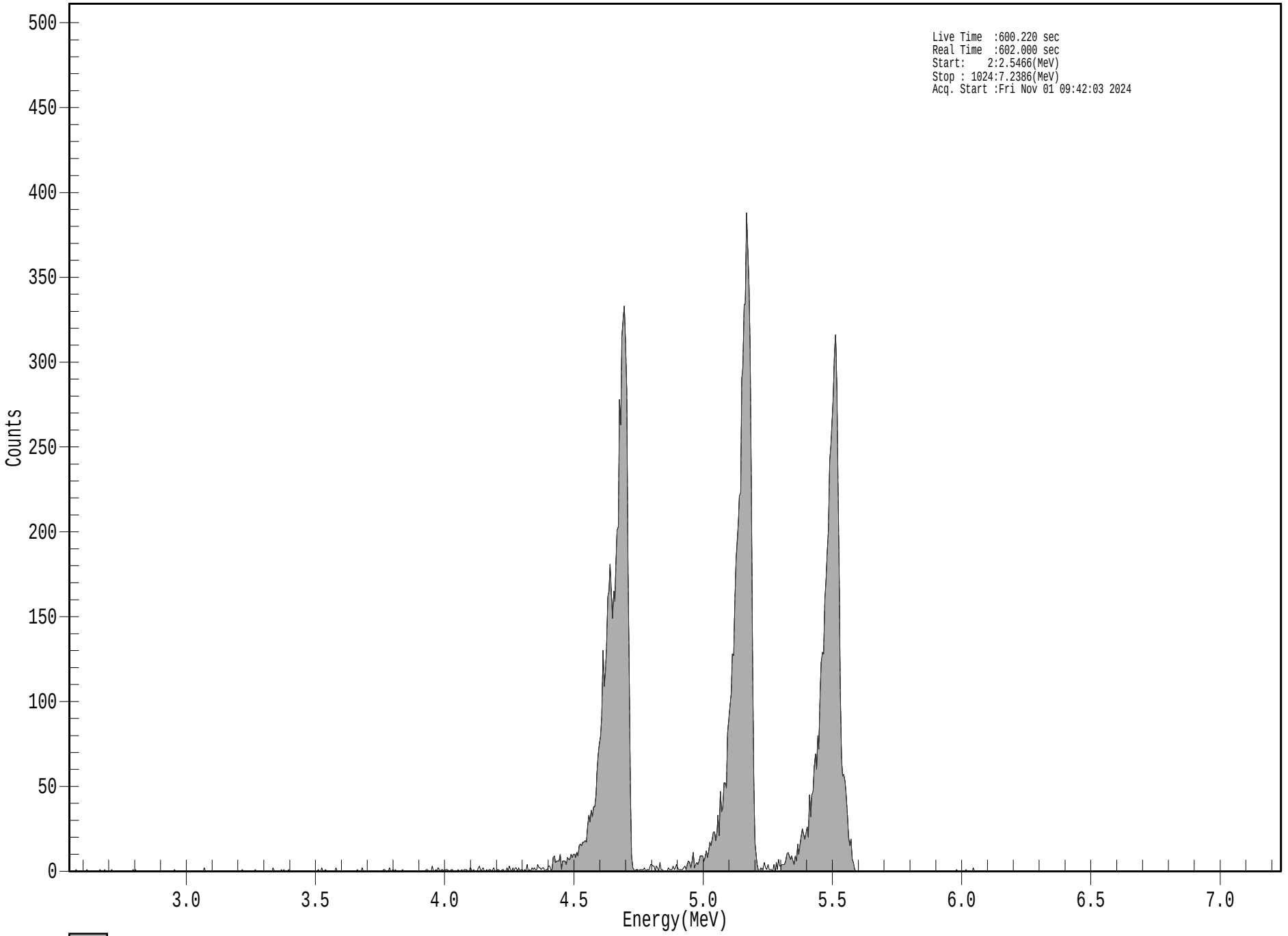
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

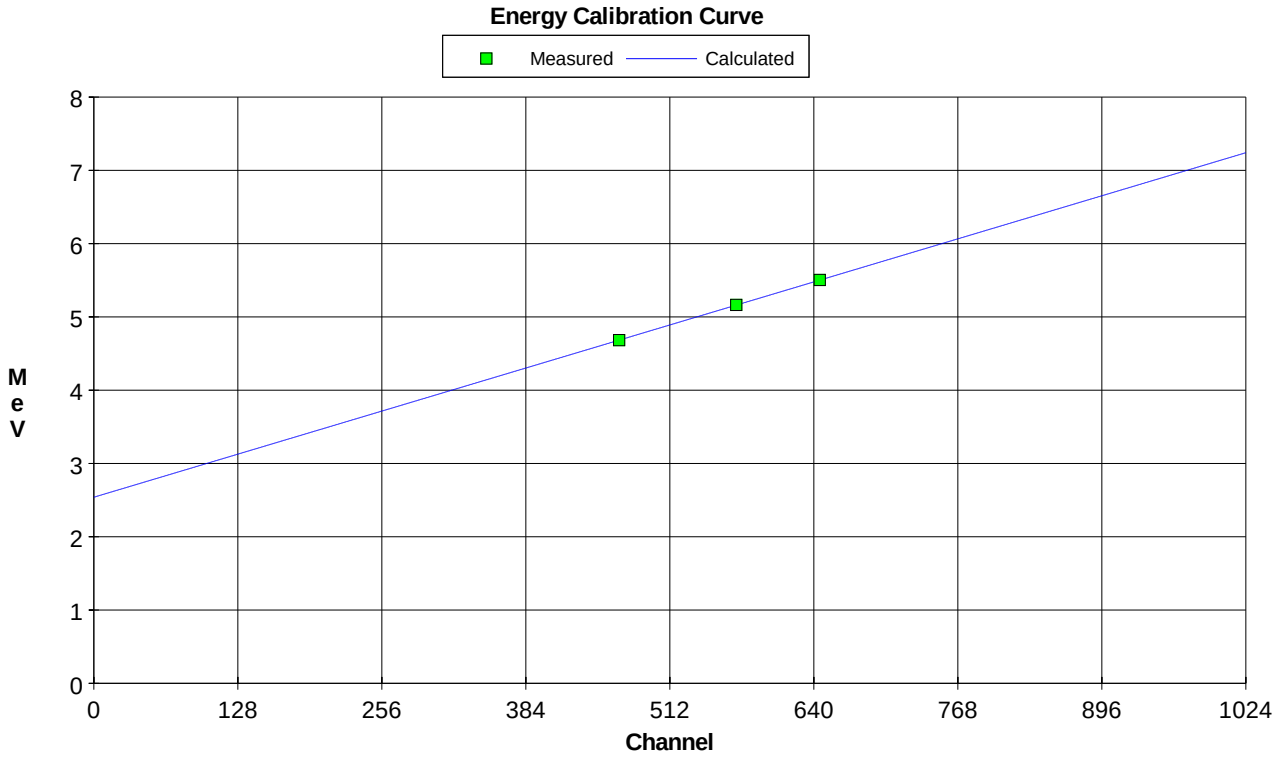
Errors quoted at 1.000 sigma

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Detector DET25

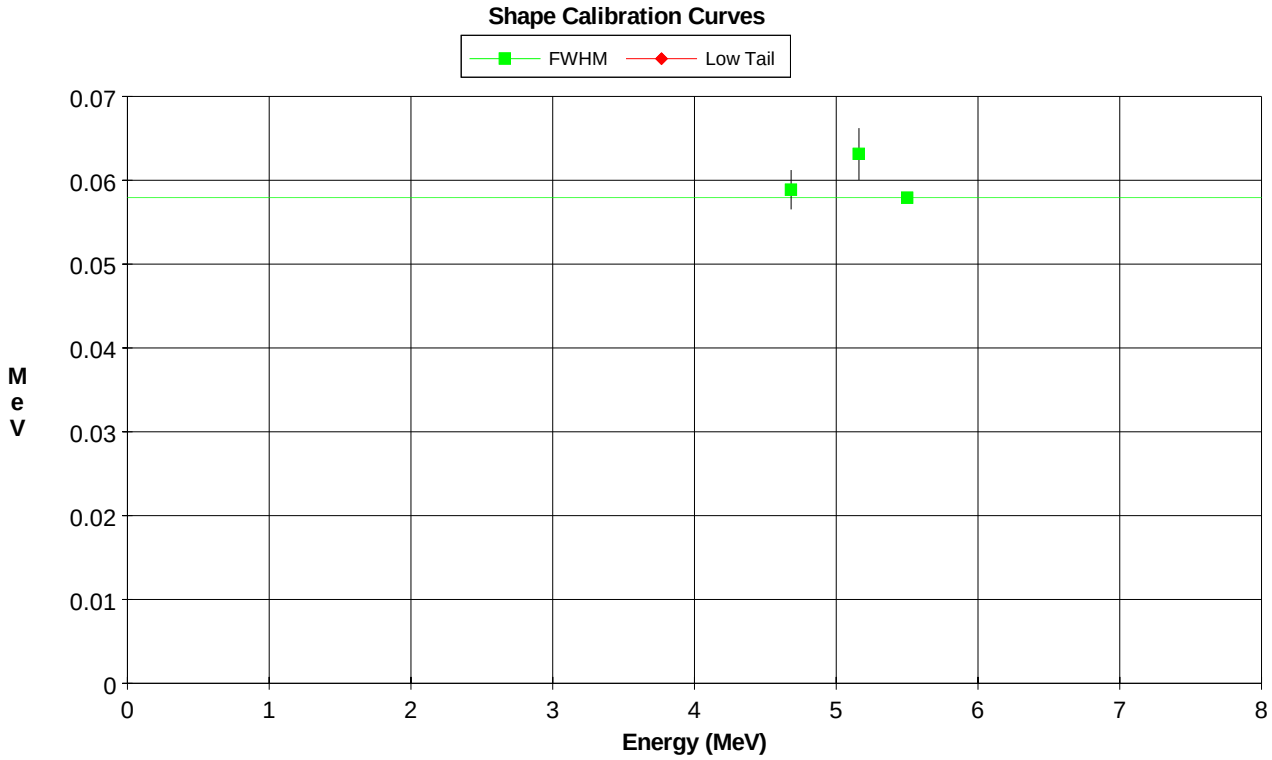


PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET25
Energy = 2.537e+000 MeV + 4.591e-003*Ch
FWHM = 5.793e-002 MeV

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Datasource: DET25
Energy = 2.537e+000 MeV + 4.591e-003*Ch
FWHM = 5.793e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET26
Sample Title: DET 26 SC 110124
Peak Analysis Performed on: 11/1/2024 11:04:39 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	423-	495	469.28	4642.72	45.31	5.31E+003	72.88	0.00E+000
2	534-	597	576.22	5128.85	58.89	4.94E+003	70.26	0.00E+000
3	613-	677	651.70	5471.97	48.59	4.70E+003	68.53	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 26 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.048E+003	1.492E+001
PU-239	0.999	5160.00*	100.00	9.714E+002	5.055E+001
AM-241	1.000	5485.70*	99.00	9.333E+002	1.572E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:04:39 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

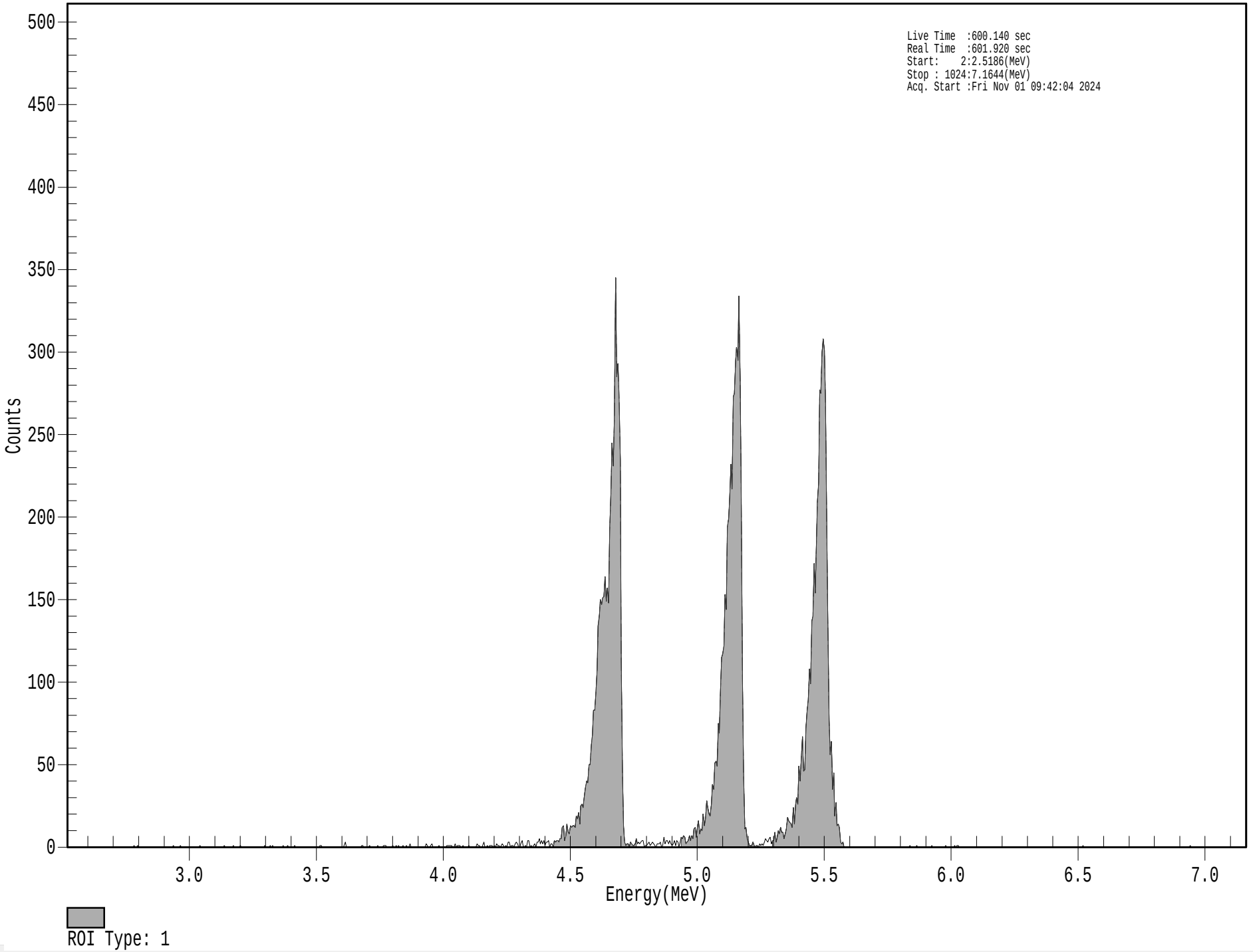
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

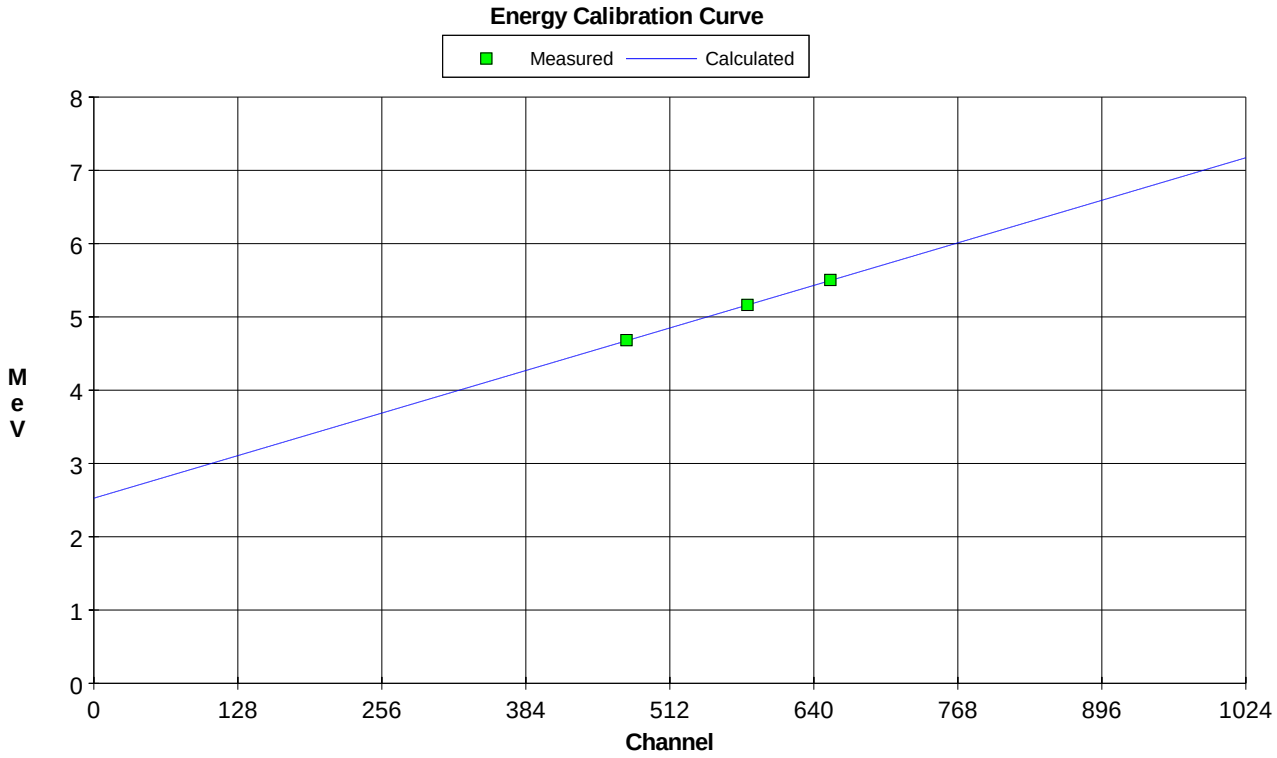
Errors quoted at 1.000 sigma

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Detector DET26

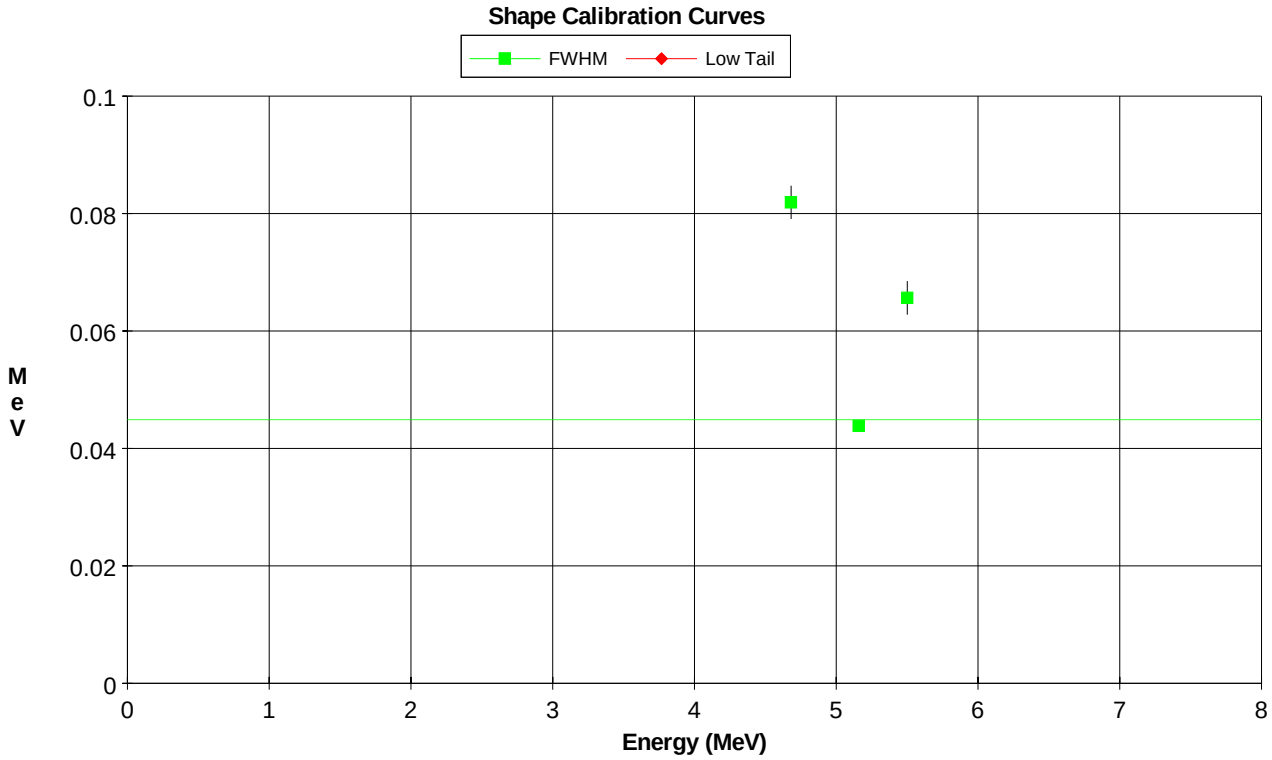


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Datasource: DET26
Energy = 2.524e+000 MeV + 4.537e-003*Ch
FWHM = 4.487e-002 MeV

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Datasource: DET26
Energy = 2.524e+000 MeV + 4.537e-003*Ch
FWHM = 4.487e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET27
Sample Title: DET 27 SC 110124
Peak Analysis Performed on: 11/1/2024 11:05:02 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	405-	477	451.84	4645.30	46.01	5.48E+003	74.01	0.00E+000
2	517-	581	557.57	5119.22	53.54	5.13E+003	71.60	0.00E+000
3	597-	662	632.18	5453.62	52.99	4.76E+003	68.97	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 27 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.047E+003	1.450E+001
PU-239	0.999	5160.00*	100.00	9.769E+002	5.072E+001
AM-241	0.999	5485.70*	99.00	9.155E+002	1.521E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:05:02 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

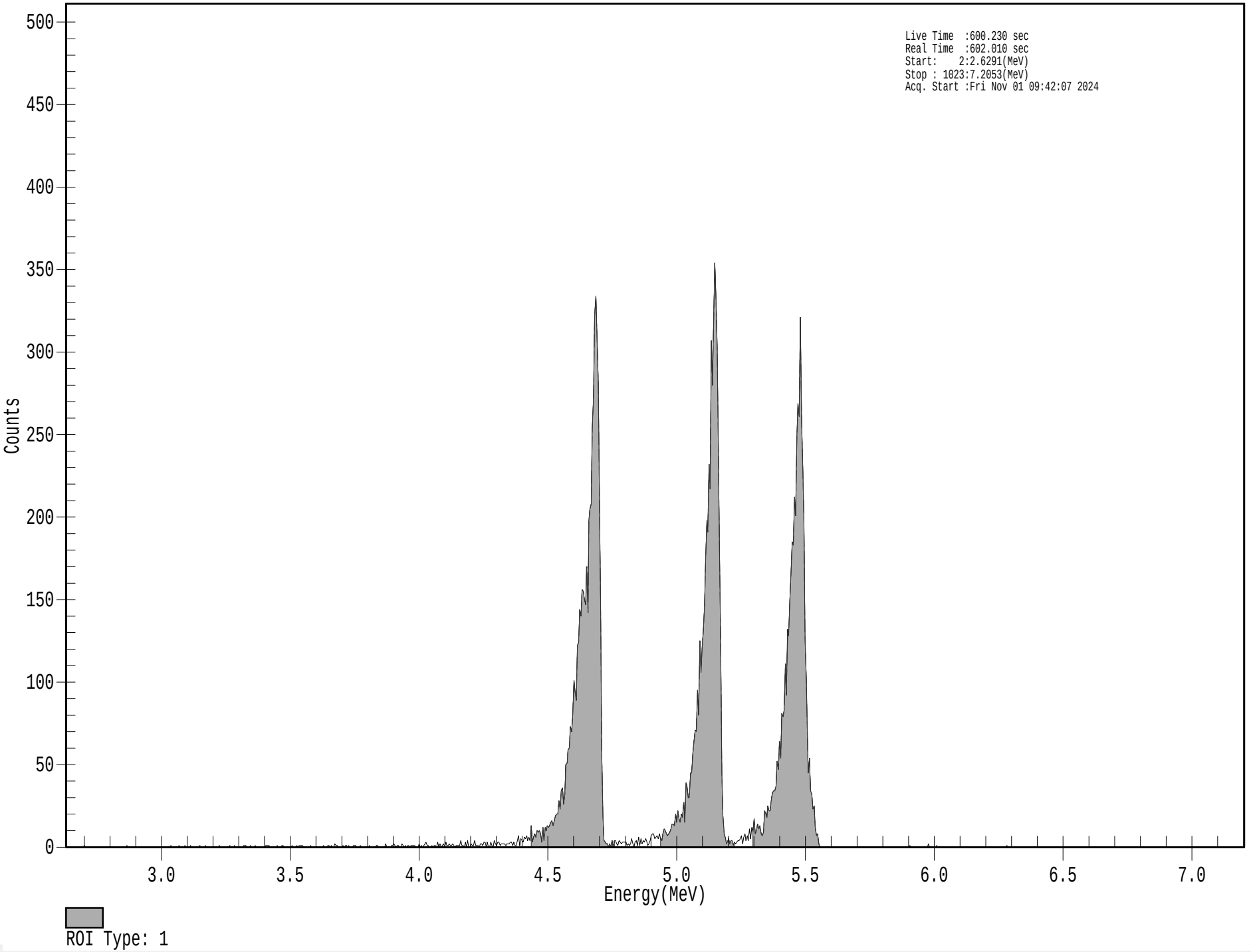
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

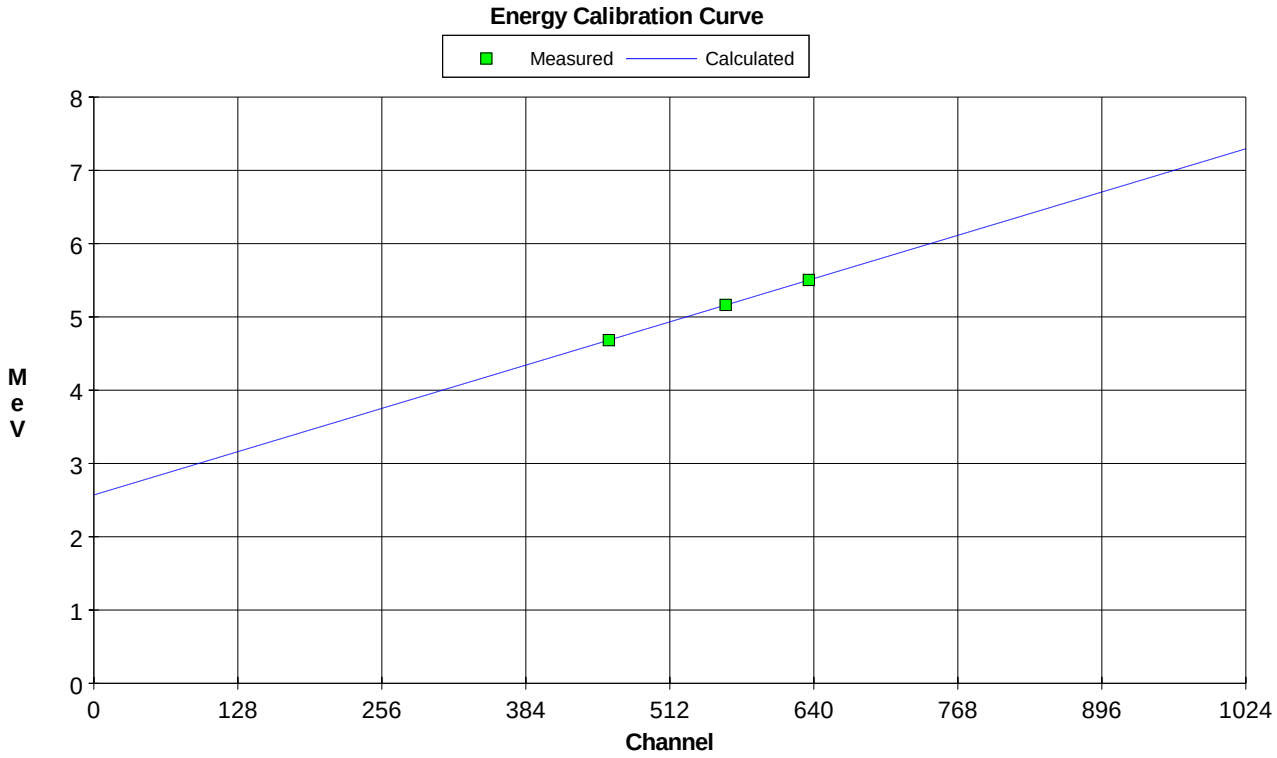
Errors quoted at 1.000 sigma

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Detector DET27

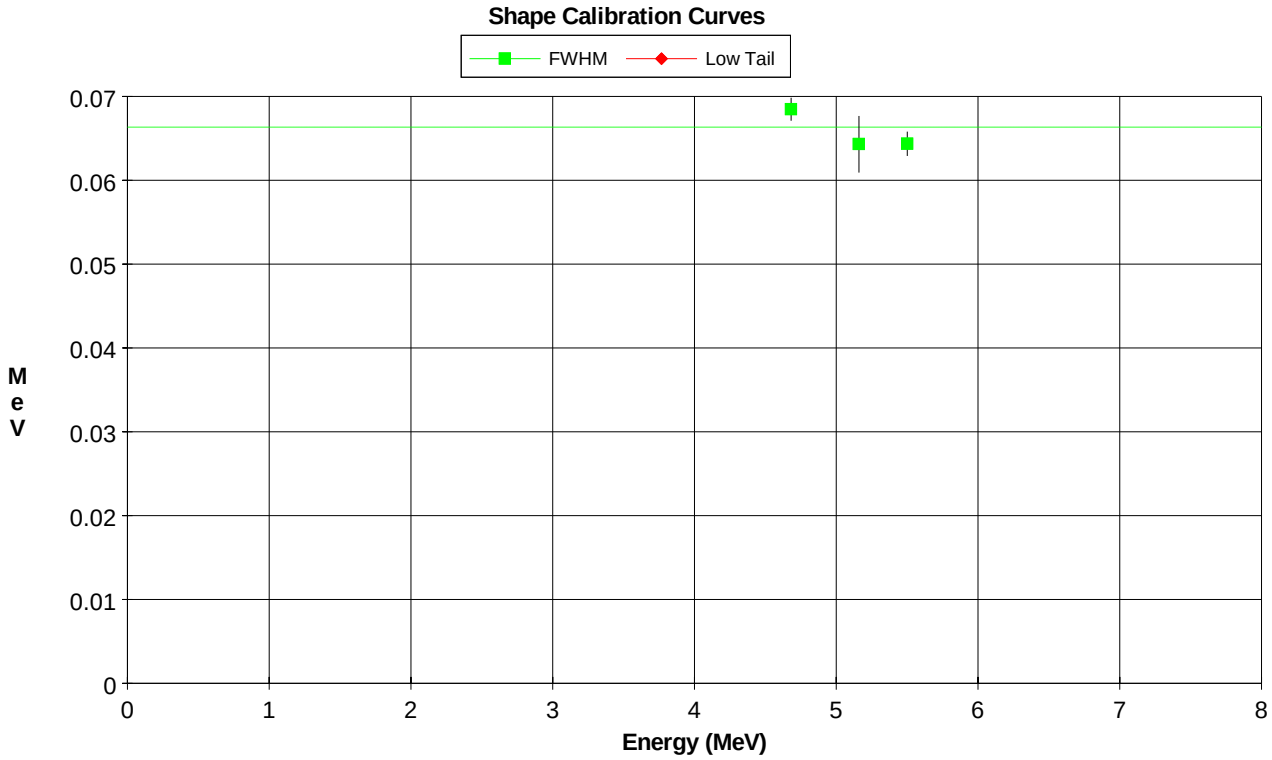


PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET27
Energy = 2.568e+000 MeV + 4.613e-003*Ch
FWHM = 6.632e-002 MeV

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Datasource: DET27
Energy = 2.568e+000 MeV + 4.613e-003*Ch
FWHM = 6.632e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET28
Sample Title: DET 28 SC 110124
Peak Analysis Performed on: 11/1/2024 11:05:16 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	409-	479	455.53	4650.54	65.07	5.93E+003	77.02	0.00E+000
2	517-	578	558.00	5132.60	57.28	6.04E+003	77.70	0.00E+000
3	592-	654	629.99	5471.28	58.42	5.30E+003	72.80	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 28 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.118E+003	1.557E+001
PU-239	1.000	5160.00*	100.00	1.134E+003	5.875E+001
AM-241	1.000	5485.70*	99.00	1.006E+003	1.654E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:05:16 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

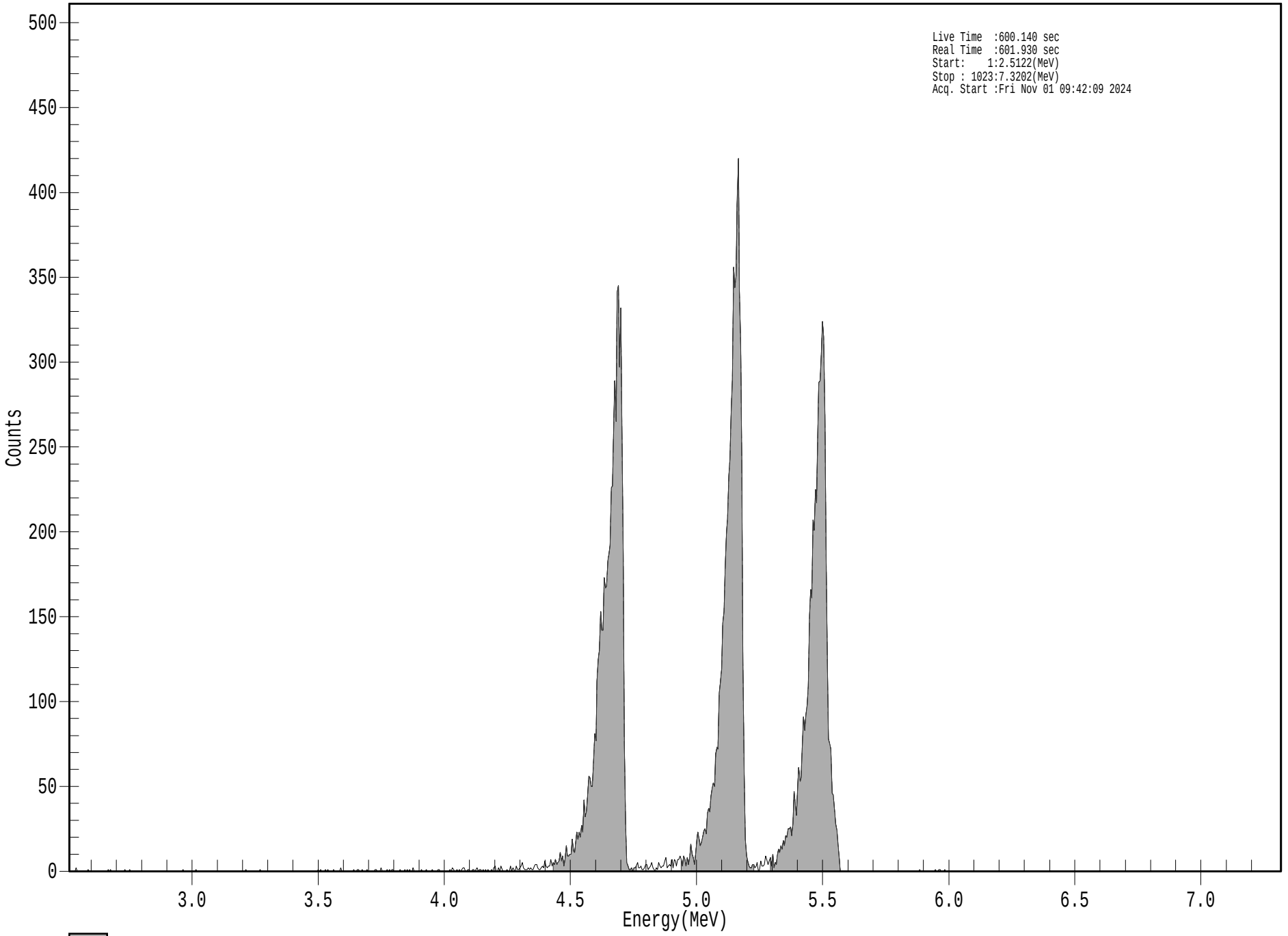
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

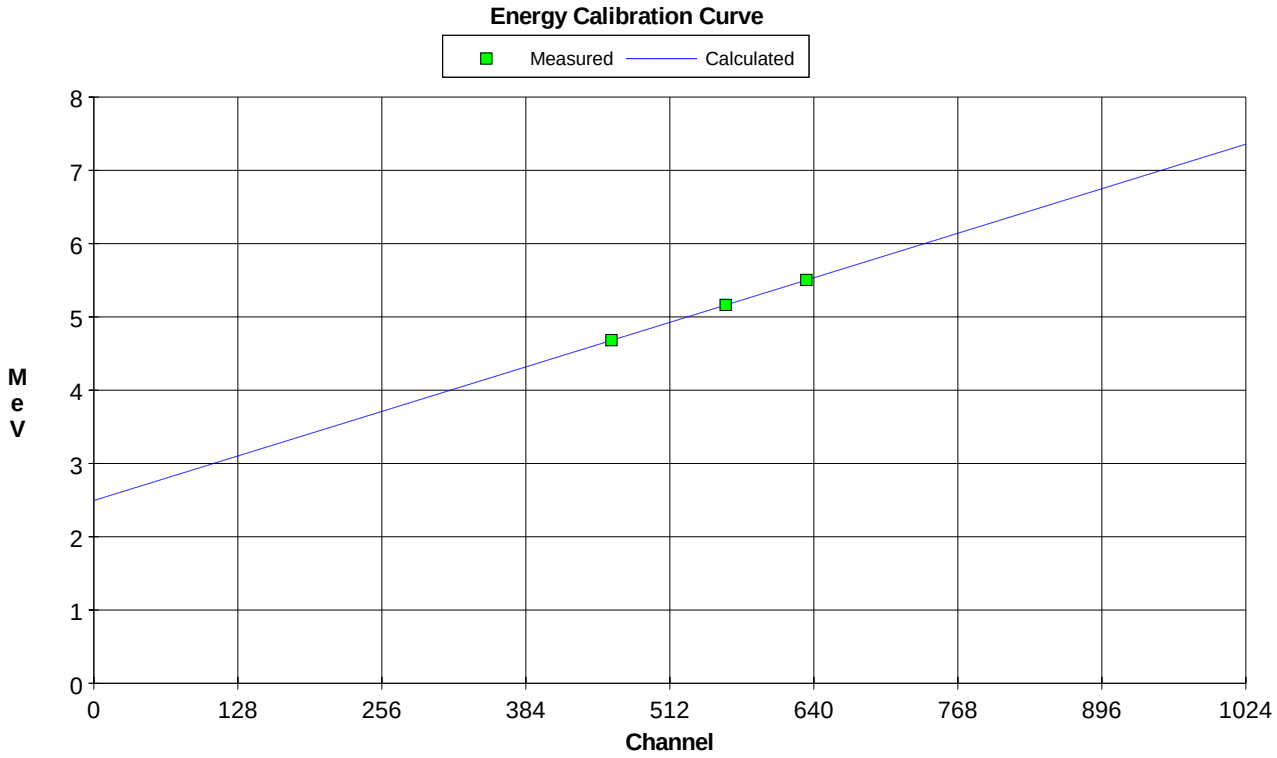
Errors quoted at 1.000 sigma

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Detector DET28

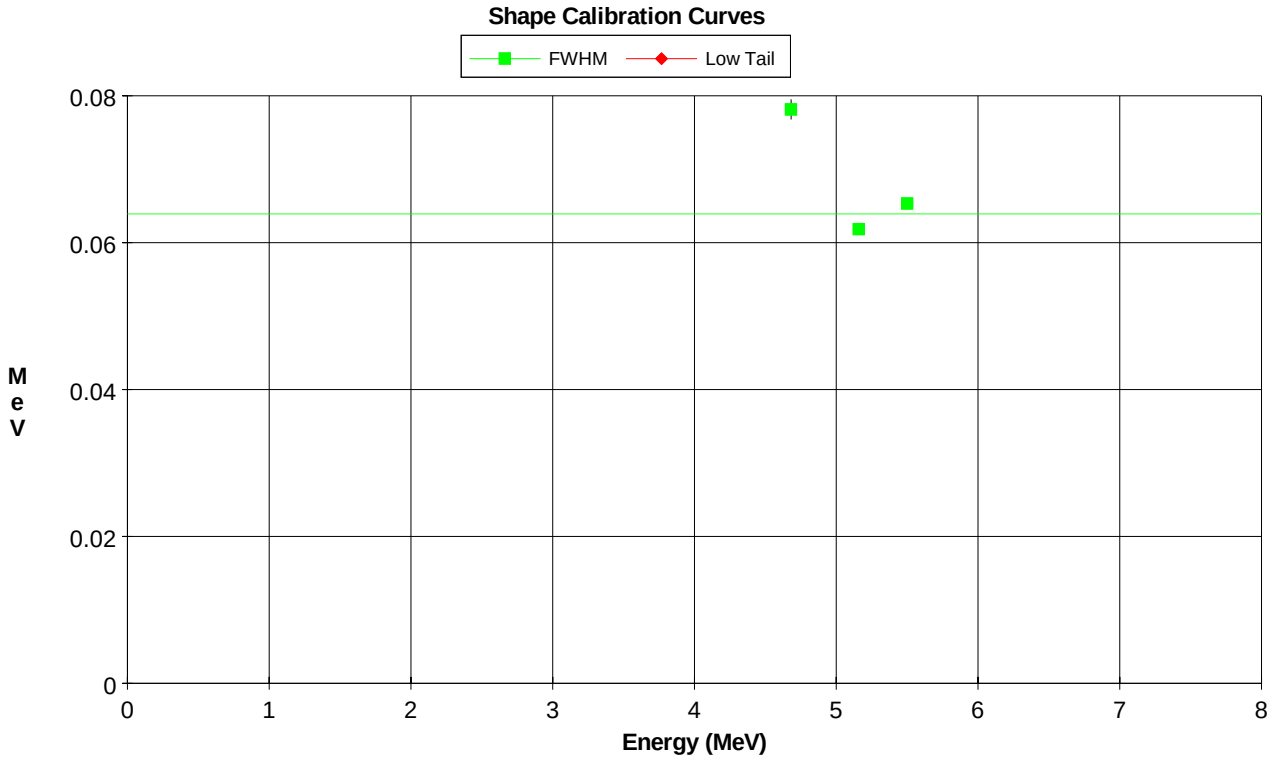


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Datasource: DET28
Energy = 2.493e+000 MeV + 4.748e-003*Ch
FWHM = 6.392e-002 MeV

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Datasource: DET28
Energy = 2.493e+000 MeV + 4.748e-003*Ch
FWHM = 6.392e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET29
Sample Title: DET 29 SC 110124
Peak Analysis Performed on: 11/1/2024 11:05:38 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	400-	471	444.85	4640.17	58.19	5.27E+003	72.59	0.00E+000
2	509-	570	545.45	5108.42	56.51	5.54E+003	74.40	0.00E+000
3	585-	648	616.72	5440.16	54.85	4.86E+003	69.69	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 29 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	9.955E+002	1.517E+001
PU-239	0.998	5160.00*	100.00	1.043E+003	5.433E+001
AM-241	0.999	5485.70*	99.00	9.240E+002	1.613E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:05:38 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

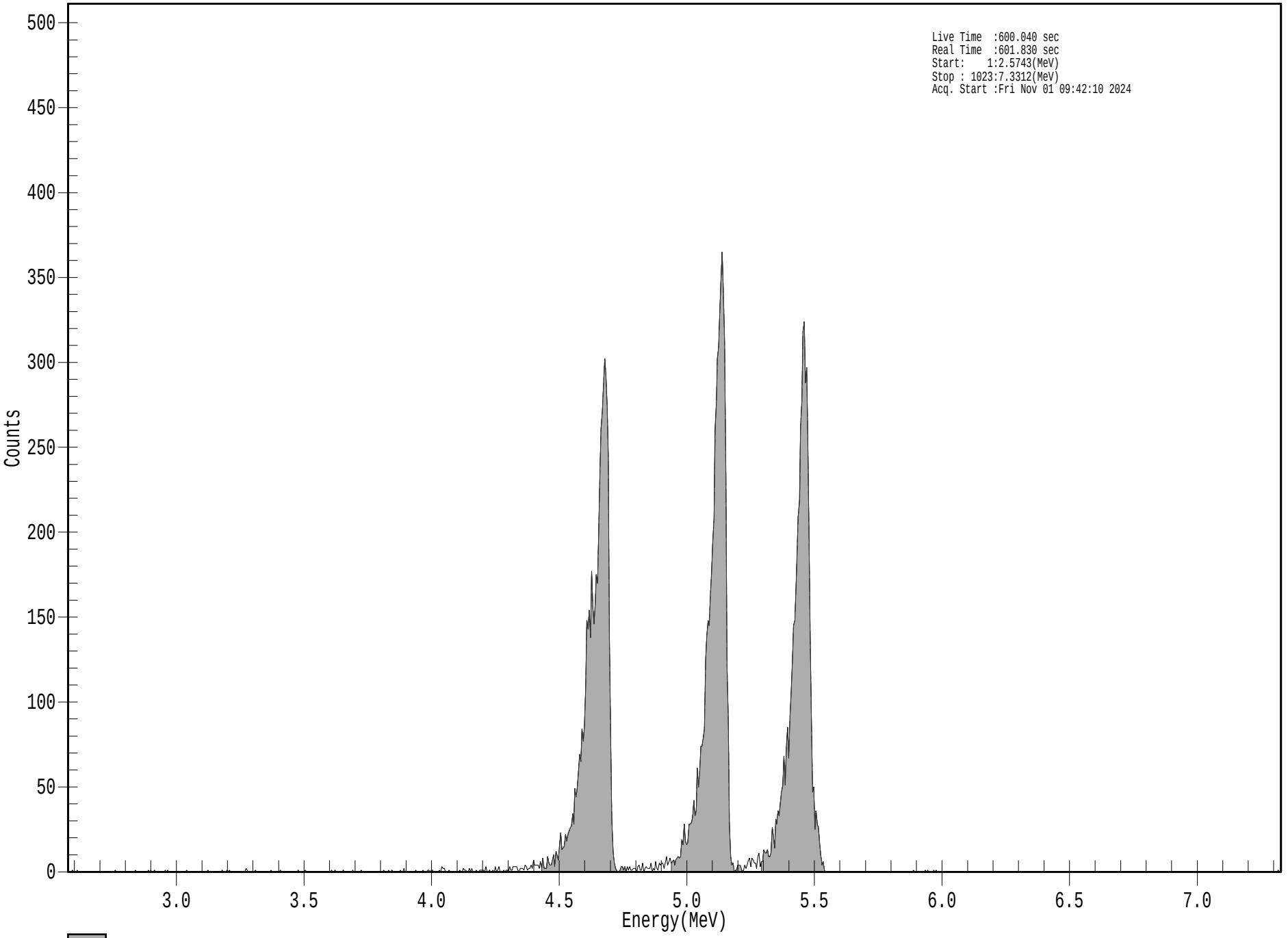
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

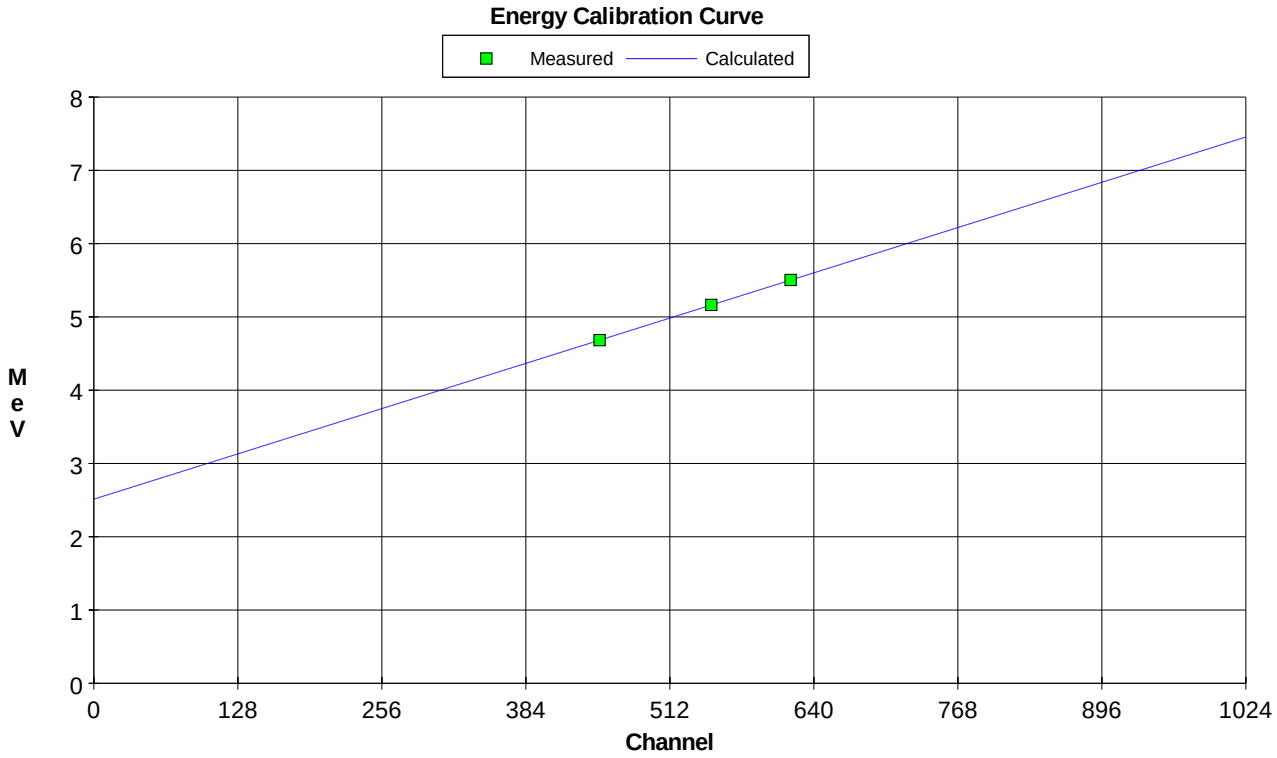
Errors quoted at 1.000 sigma

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Detector DET29

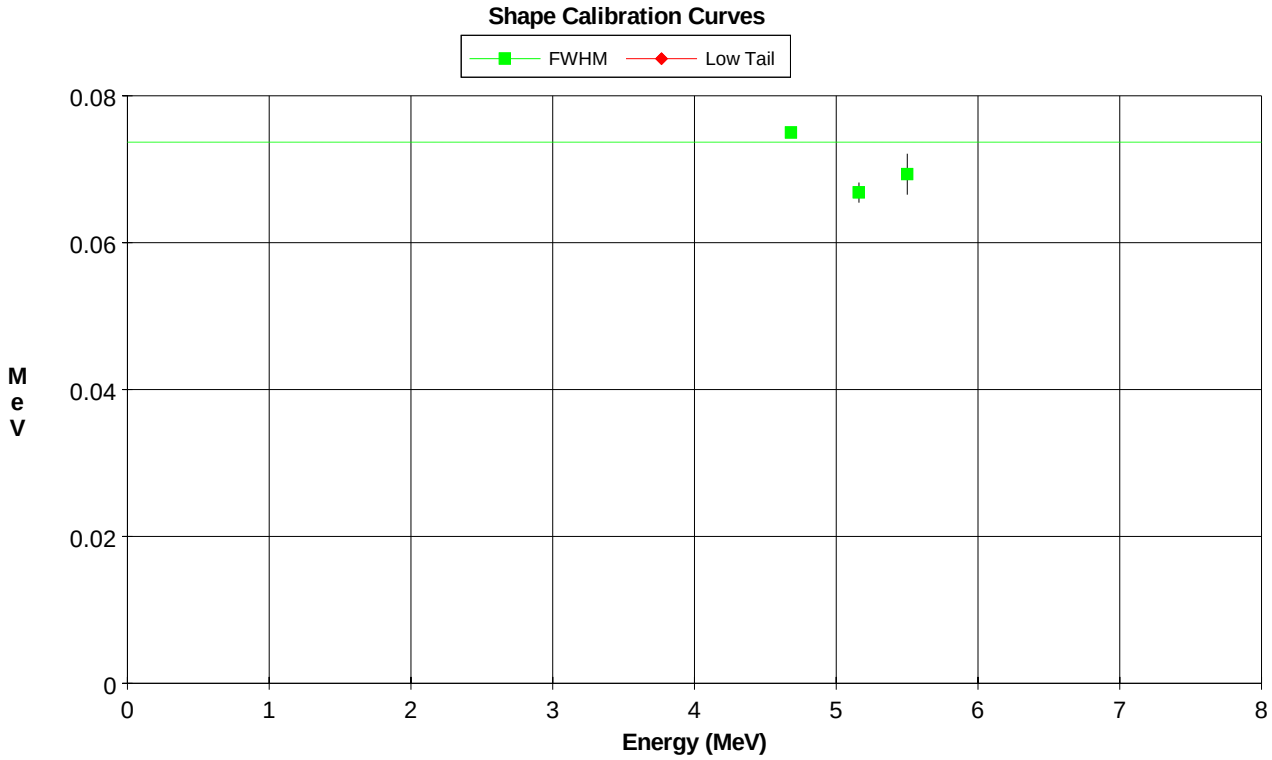


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Datasource: DET29
Energy = 2.511e+000 MeV + 4.826e-003*Ch
FWHM = 7.368e-002 MeV

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Datasource: DET29
Energy = 2.511e+000 MeV + 4.826e-003*Ch
FWHM = 7.368e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET30
Sample Title: DET 30 SC 110124
Peak Analysis Performed on: 11/1/2024 11:05:55 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	418-	489	467.87	4661.67	87.02	6.19E+003	78.67	0.00E+000
2	528-	591	571.87	5135.99	56.18	6.00E+003	77.43	0.00E+000
3	607-	670	645.75	5472.97	62.39	5.79E+003	76.08	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 30 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.057E+003	1.510E+001
PU-239	1.000	5160.00*	100.00	1.021E+003	5.306E+001
AM-241	1.000	5485.70*	99.00	9.956E+002	1.640E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:05:55 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

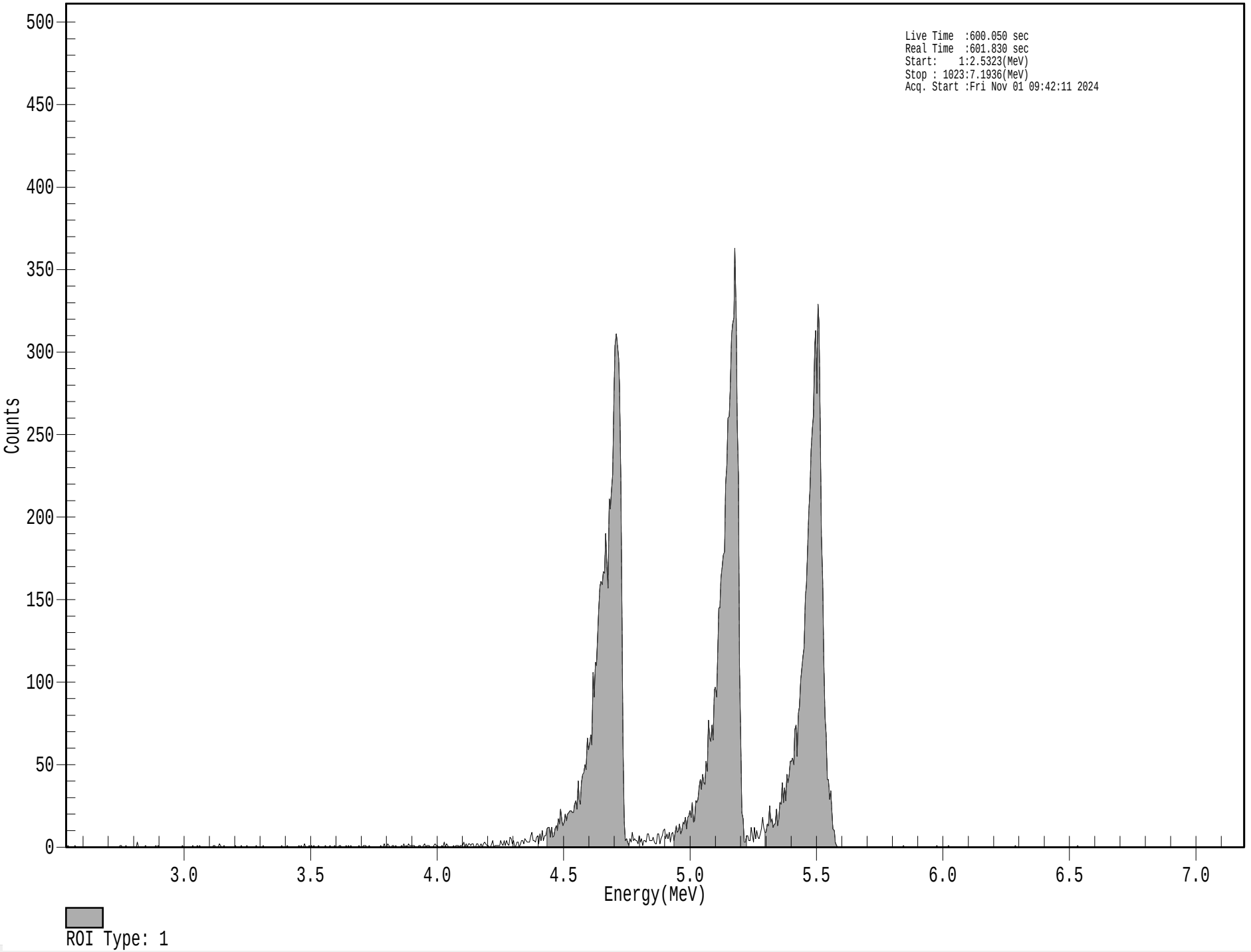
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

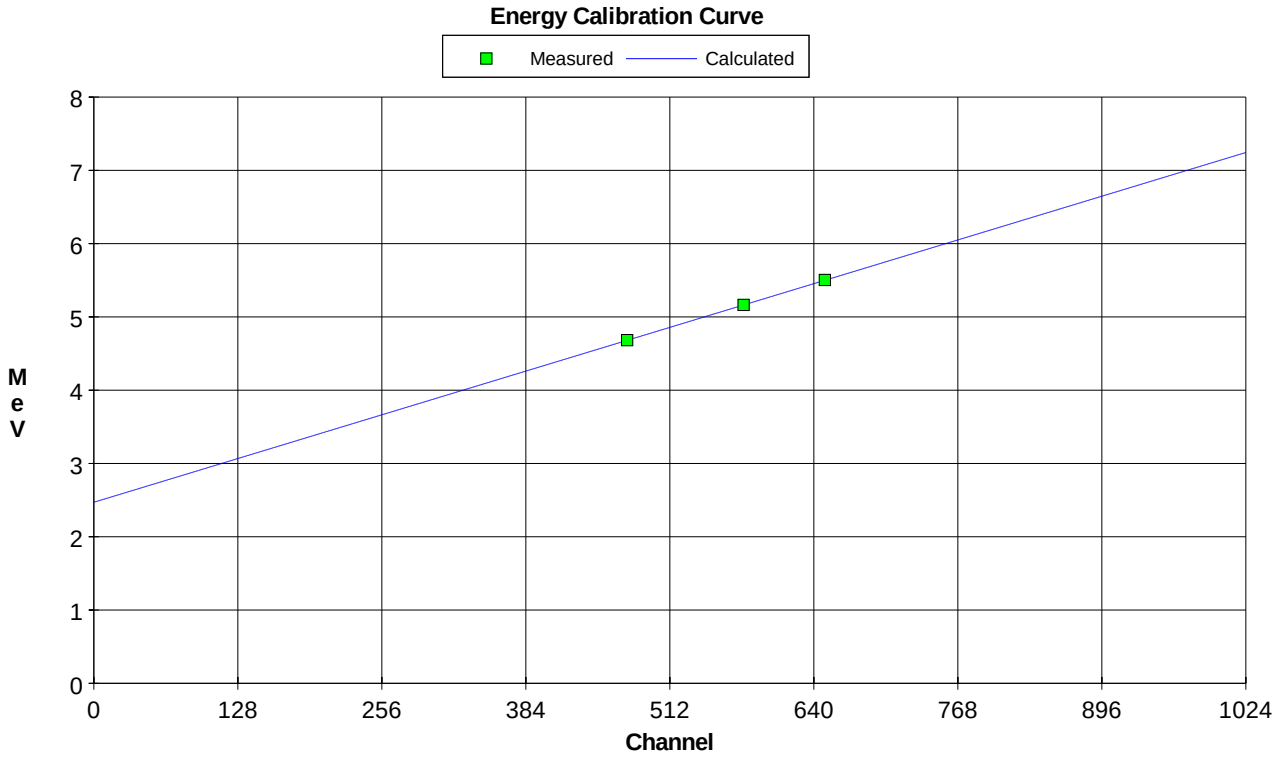
Errors quoted at 1.000 sigma

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Detector DET30

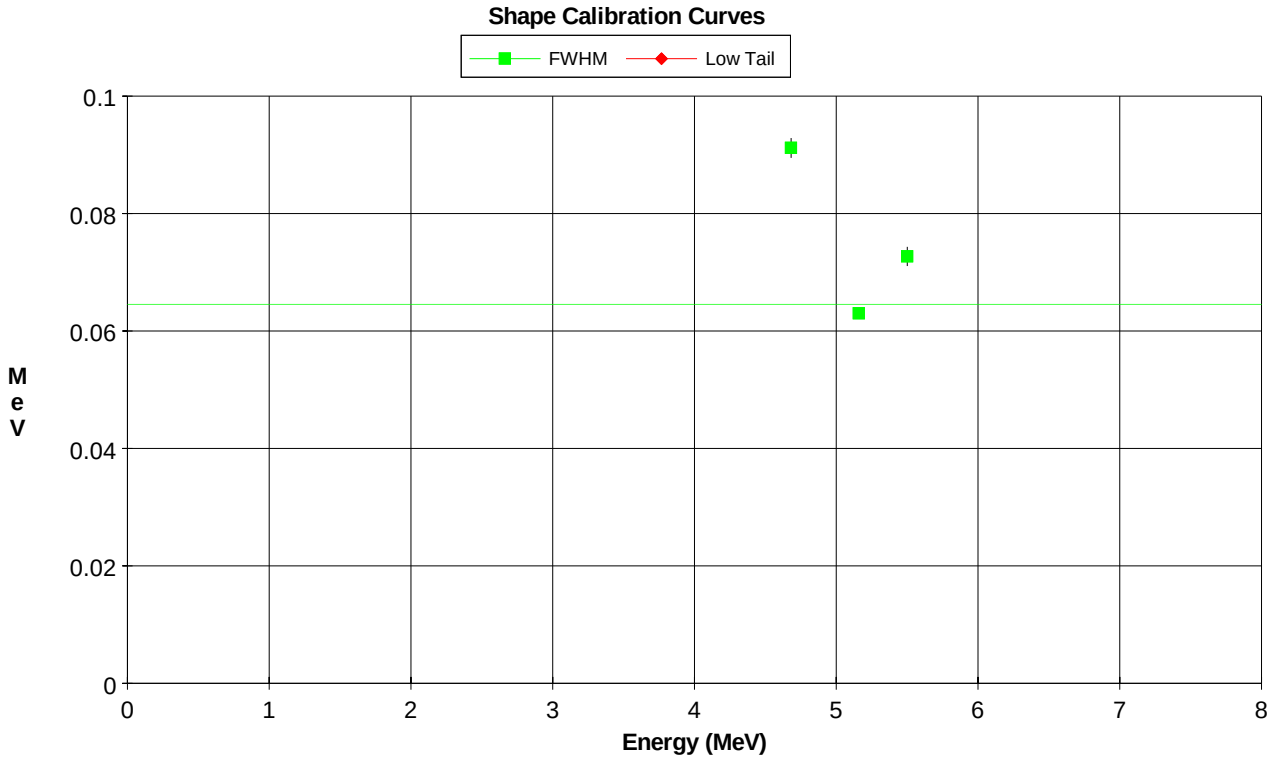


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Datasource: DET30
Energy = 2.469e+000 MeV + 4.661e-003*Ch
FWHM = 6.447e-002 MeV

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Datasource: DET30
Energy = 2.469e+000 MeV + 4.661e-003*Ch
FWHM = 6.447e-002 MeV

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****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET31
Sample Title: DET 31 SC 110124
Peak Analysis Performed on: 11/1/2024 11:06:12 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	398-	468	444.69	4649.98	82.73	6.66E+003	81.62	0.00E+000
2	507-	568	545.75	5119.59	60.62	6.58E+003	81.12	0.00E+000
3	583-	646	617.34	5452.30	60.90	5.59E+003	74.73	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 31 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	9.758E+002	1.405E+001
PU-239	0.999	5160.00*	100.00	9.609E+002	4.993E+001
AM-241	0.999	5485.70*	99.00	8.238E+002	1.409E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:06:12 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

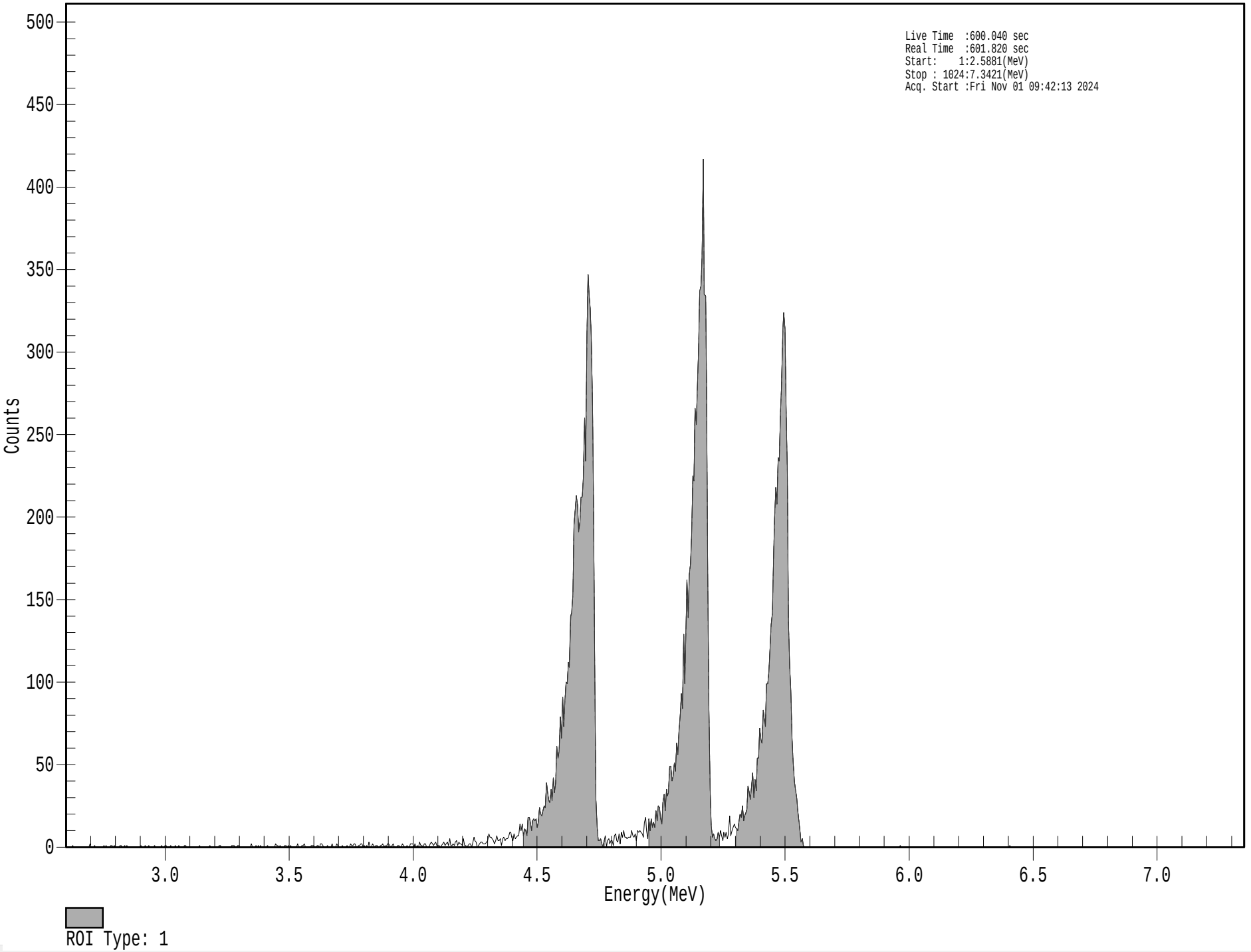
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

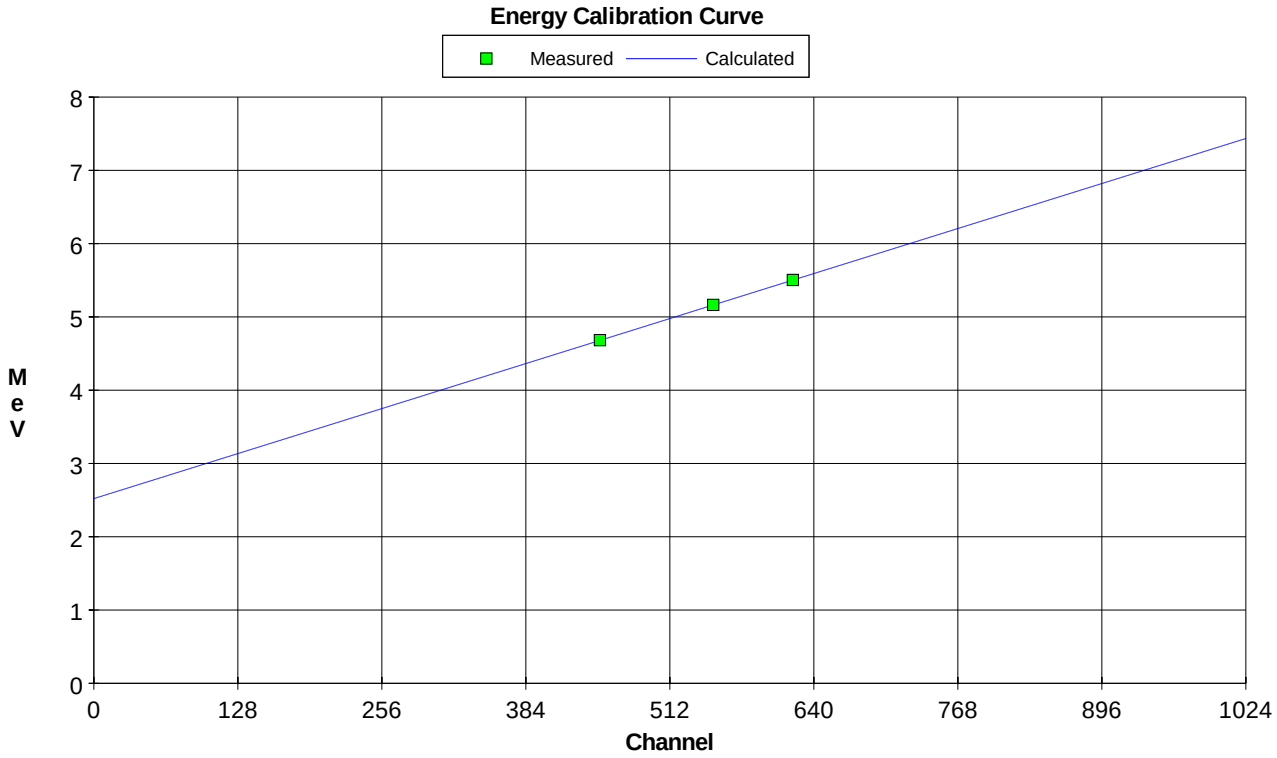
Errors quoted at 1.000 sigma

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Detector DET31

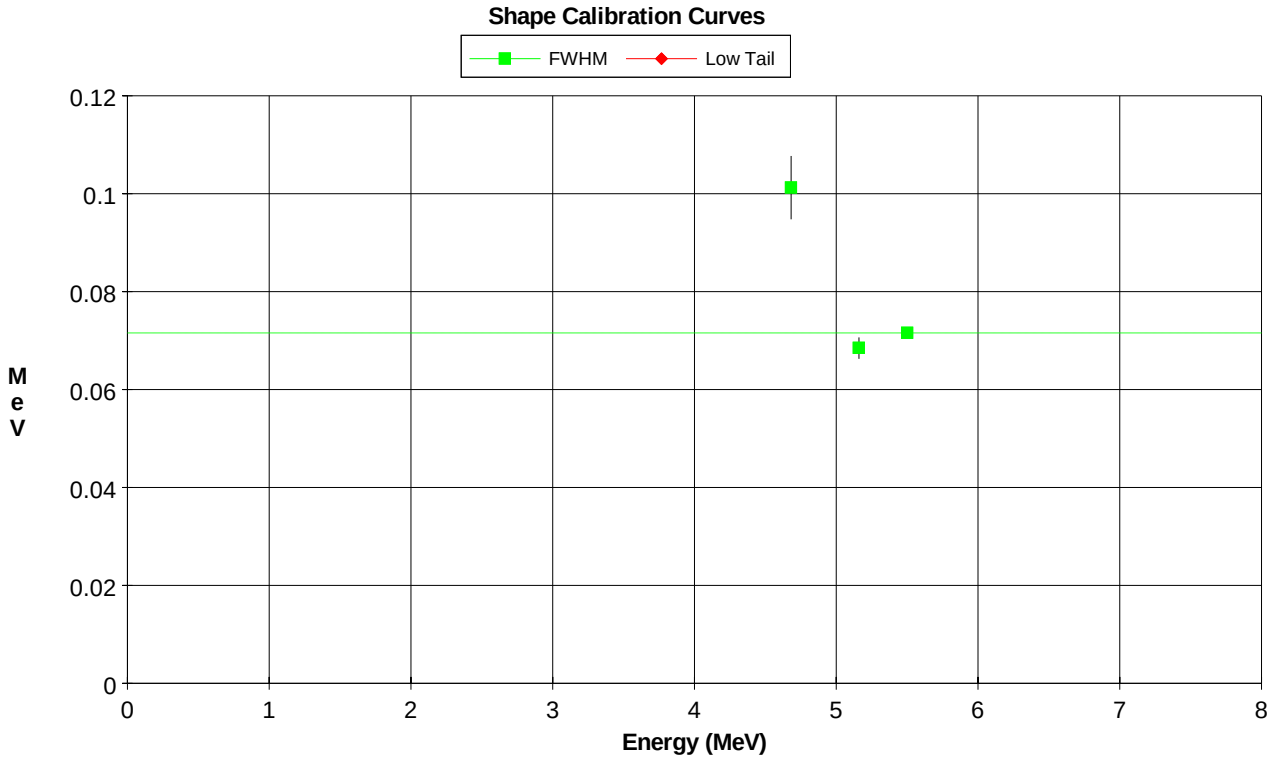


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Datasource: DET31
Energy = 2.518e+000 MeV + 4.799e-003*Ch
FWHM = 7.157e-002 MeV

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Datasource: DET31
Energy = 2.518e+000 MeV + 4.799e-003*Ch
FWHM = 7.157e-002 MeV

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: DET32
Sample Title: DET 32 SC 110124
Peak Analysis Performed on: 11/1/2024 11:06:27 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	401-	470	445.90	4645.26	72.48	6.27E+003	79.20	0.00E+000
2	508-	569	547.59	5122.14	60.57	6.56E+003	81.00	0.00E+000
3	584-	646	619.53	5459.49	66.28	5.80E+003	76.12	0.00E+000

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 32 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.033E+003	1.493E+001
PU-239	0.999	5160.00*	100.00	1.077E+003	5.589E+001
AM-241	1.000	5485.70*	99.00	9.609E+002	1.603E+001

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:06:27 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

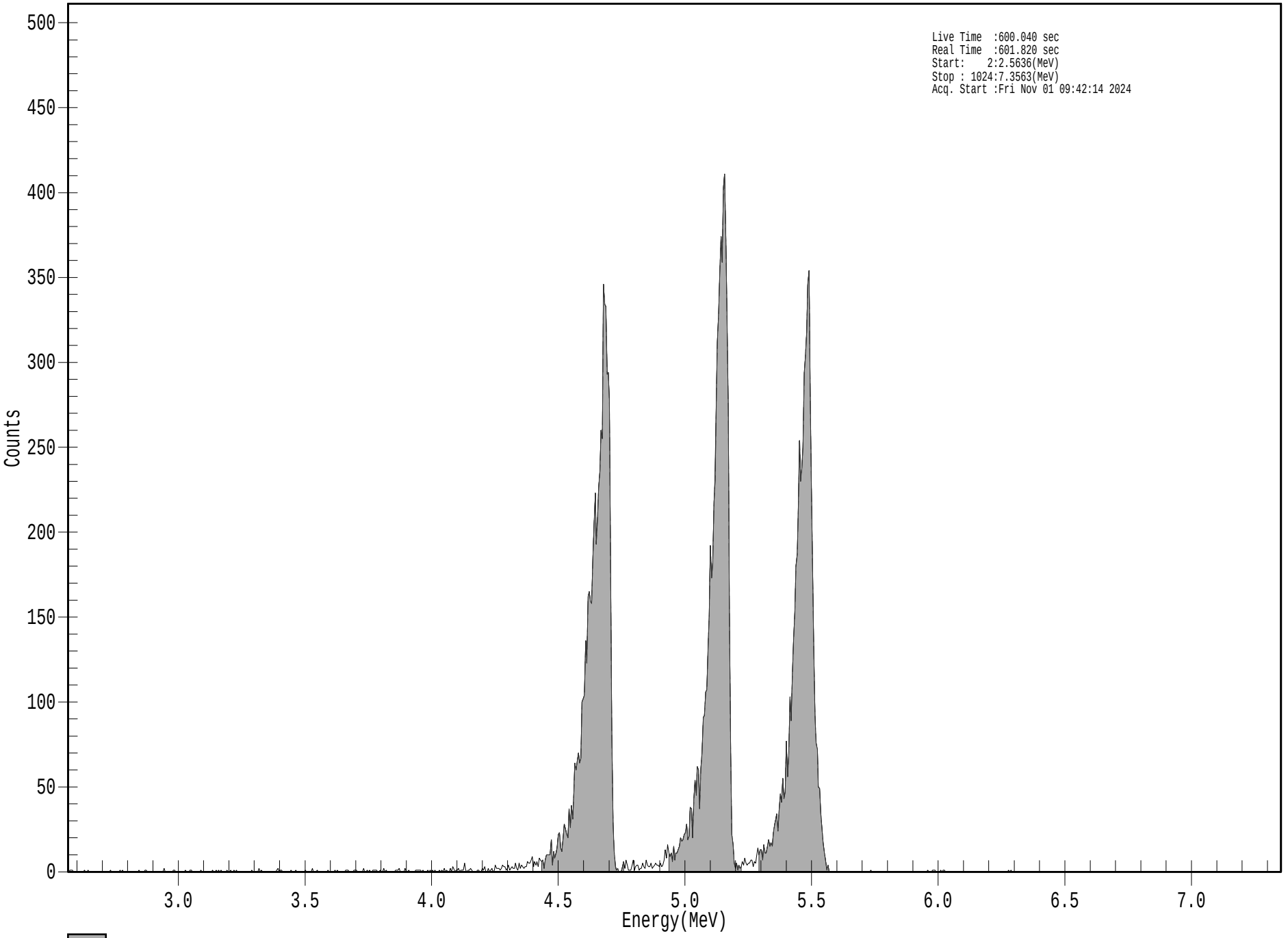
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

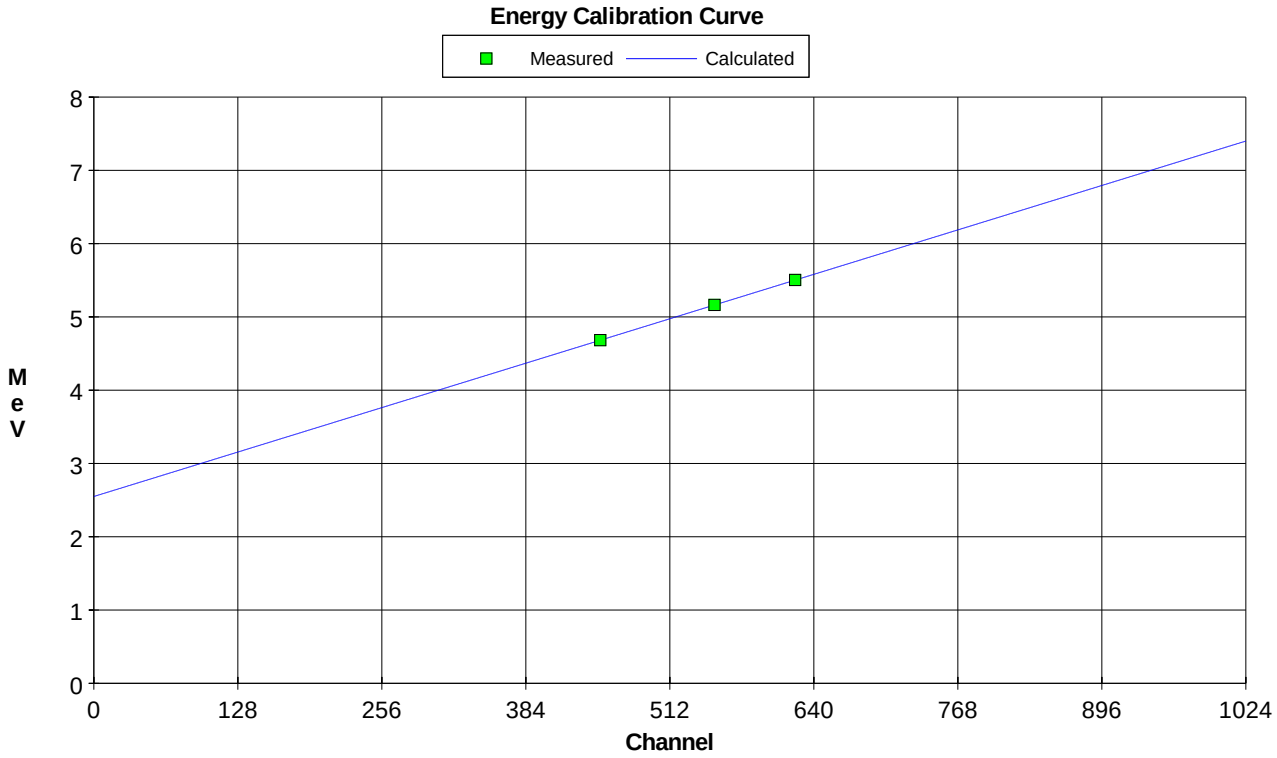
Errors quoted at 1.000 sigma

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Detector DET32

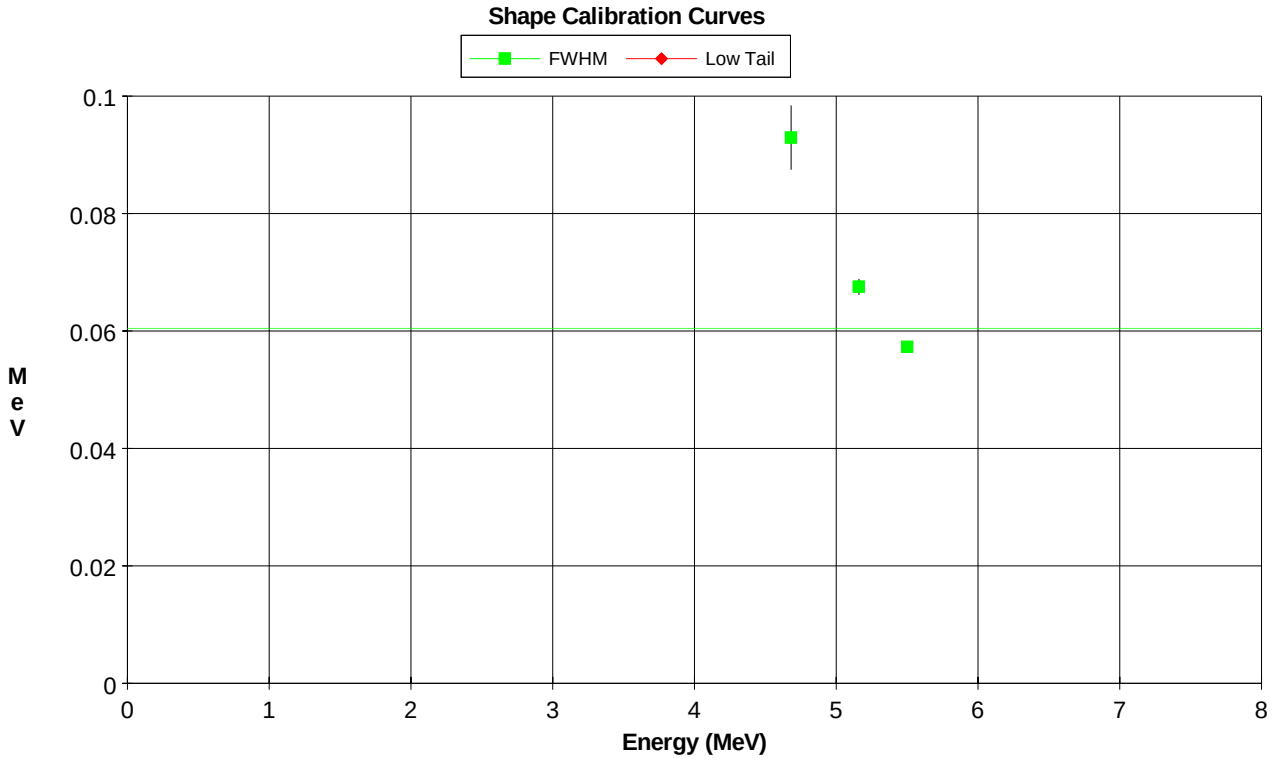


PDF created with FinePrint pdfFactory trial version www.pdffactory.com



Datasource: DET32
Energy = 2.548e+000 MeV + 4.737e-003*Ch
FWHM = 6.043e-002 MeV

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Datasource: DET32
Energy = 2.548e+000 MeV + 4.737e-003*Ch
FWHM = 6.043e-002 MeV

PDF created with FinePrint pdfFactory trial version www.pdffactory.com

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_1A
Sample Title: DET 33 SC 110124
Peak Analysis Performed on: 11/1/2024 11:52:22 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	338-	396	379.11	4666.04	50.34	5.296E+03	72.77	0.000E+00
2	427-	479	463.55	5139.74	55.99	5.367E+03	73.26	0.000E+00
3	491-	543	523.11	5473.85	51.41	4.641E+03	68.12	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 33 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.0385E+03	1.6287E+01
PU-239	1.000	5160.00*	100.00	1.0492E+03	5.4866E+01
AM-241	1.000	5485.70*	99.00	9.1647E+02	1.6620E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 11:52:22 AM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

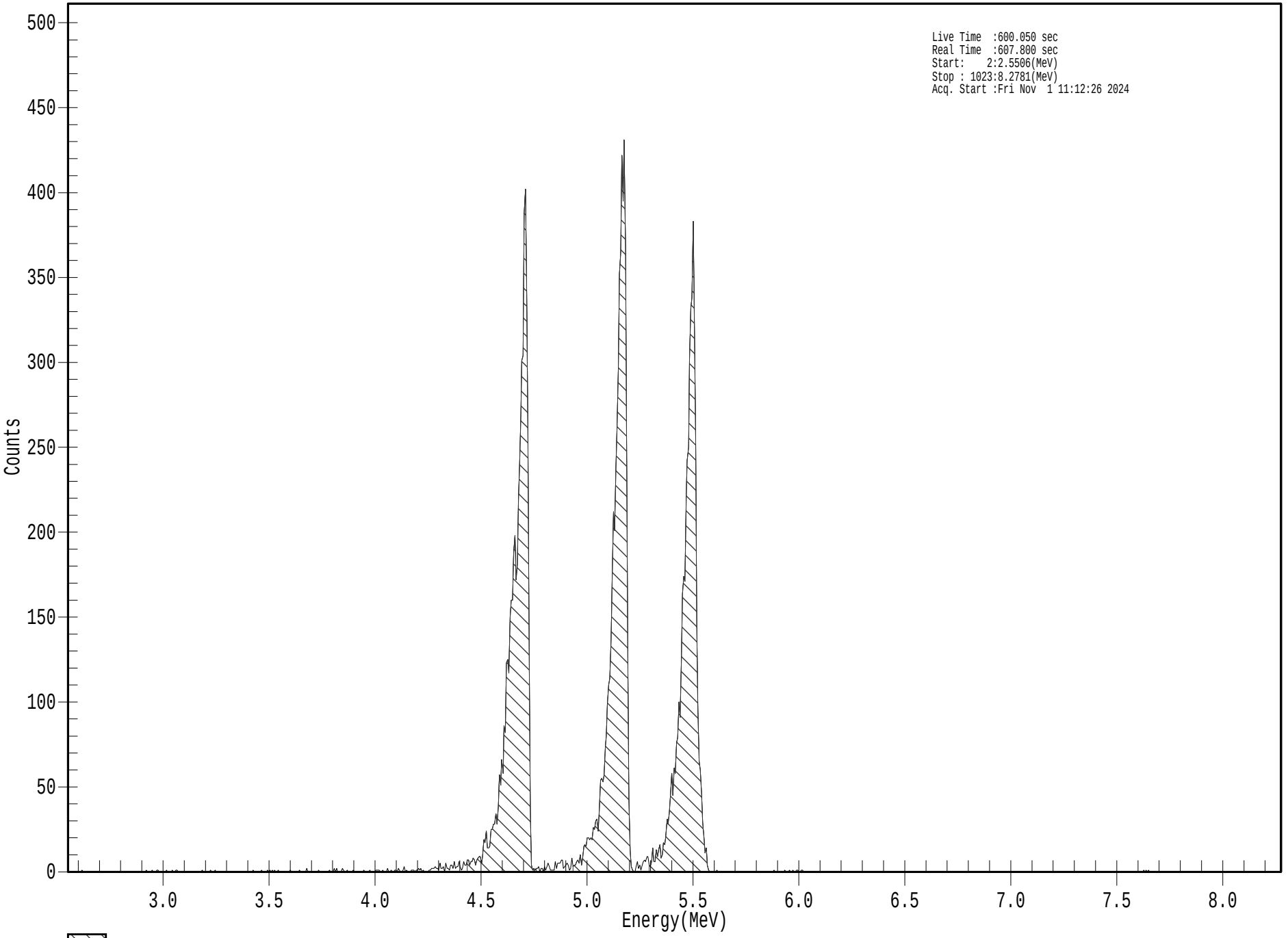
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

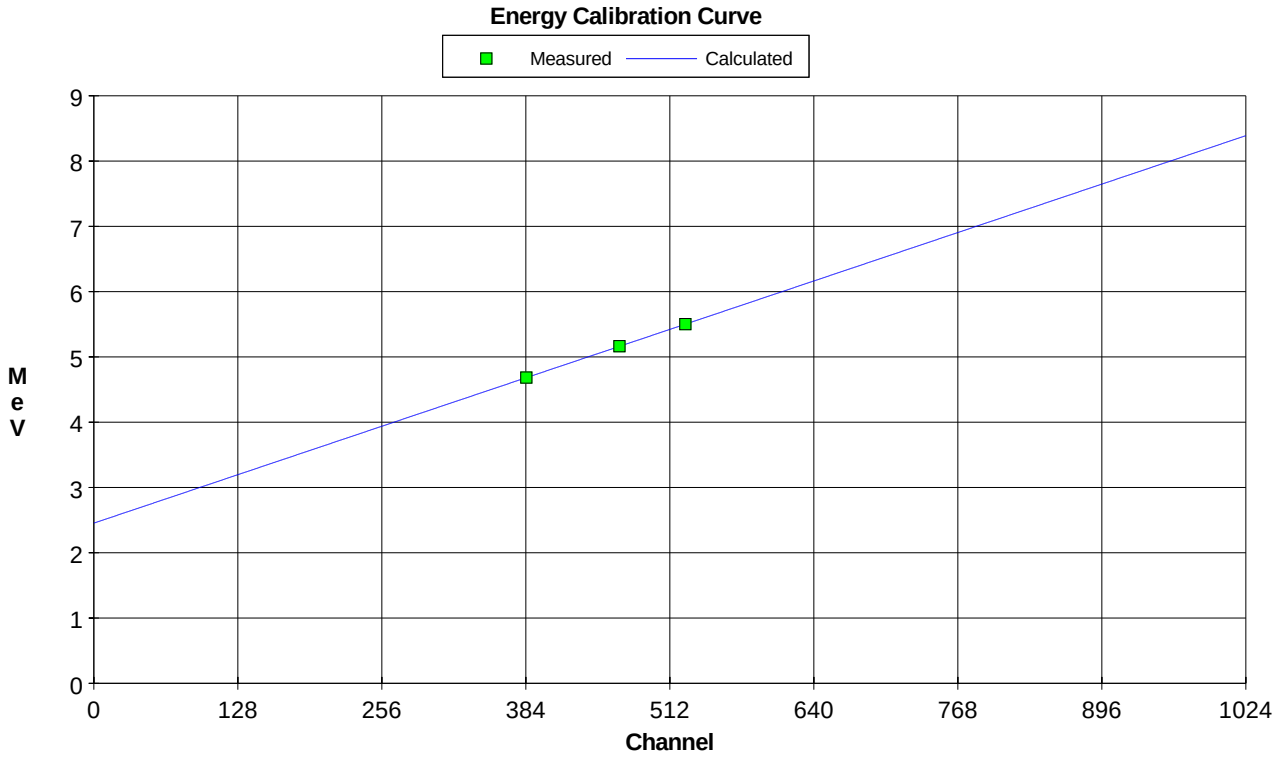
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

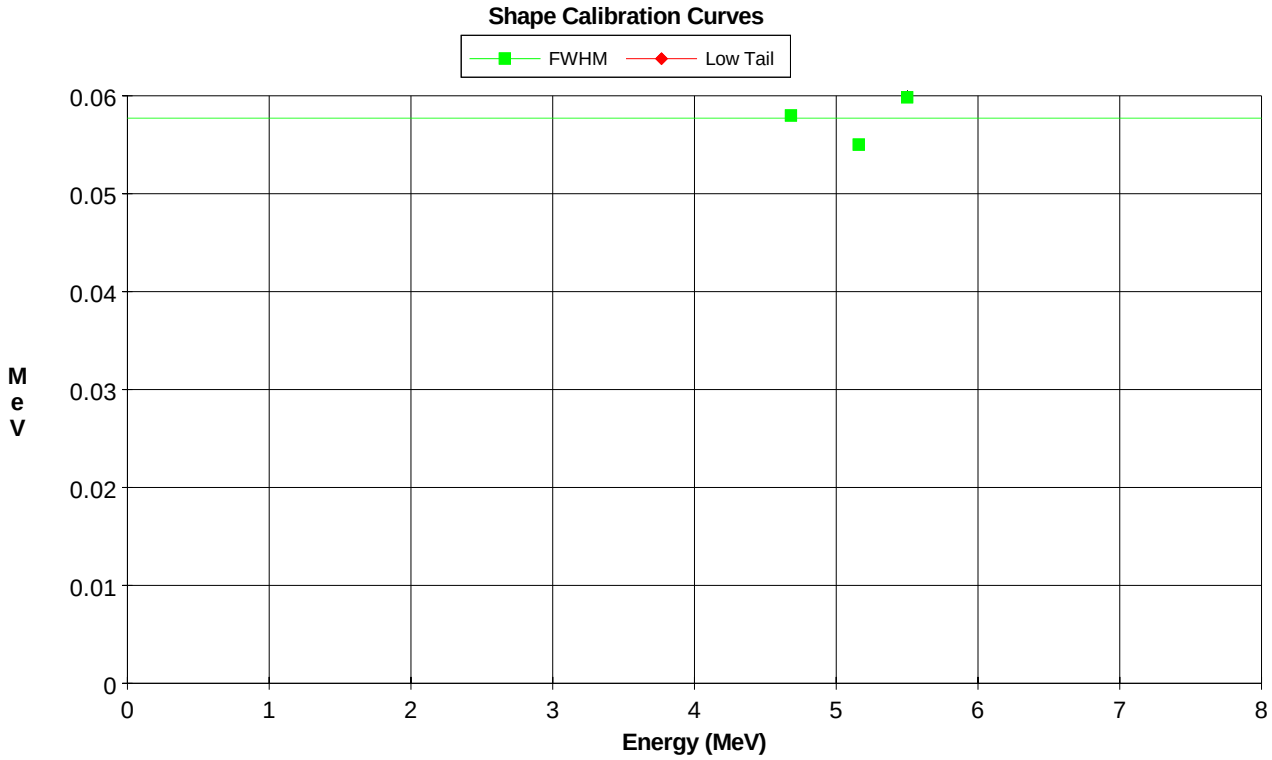
Errors quoted at 1.000 sigma

Detector A_4_1A





Datasource: A_4_1A
Energy = 2.452e+00 MeV +5.796e-03*Ch
FWHM = 5.768e-02 MeV



Datasource: A_4_1A
Energy = 2.452e+00 MeV +5.796e-03*Ch
FWHM = 5.768e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_1B
Sample Title: DET 34 SC 110124
Peak Analysis Performed on: 11/1/2024 12:05:28 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	397	380.52	4666.11	53.69	5.081E+03	71.28	0.000E+00
2	429-	481	465.05	5137.15	60.46	4.555E+03	67.49	0.000E+00
3	493-	545	524.77	5469.95	59.35	4.458E+03	66.77	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 34 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.5932E+02	1.3942E+01
PU-239	1.000	5160.00*	100.00	8.5743E+02	4.4758E+01
AM-241	1.000	5485.70*	99.00	8.4764E+02	1.4558E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:05:28 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

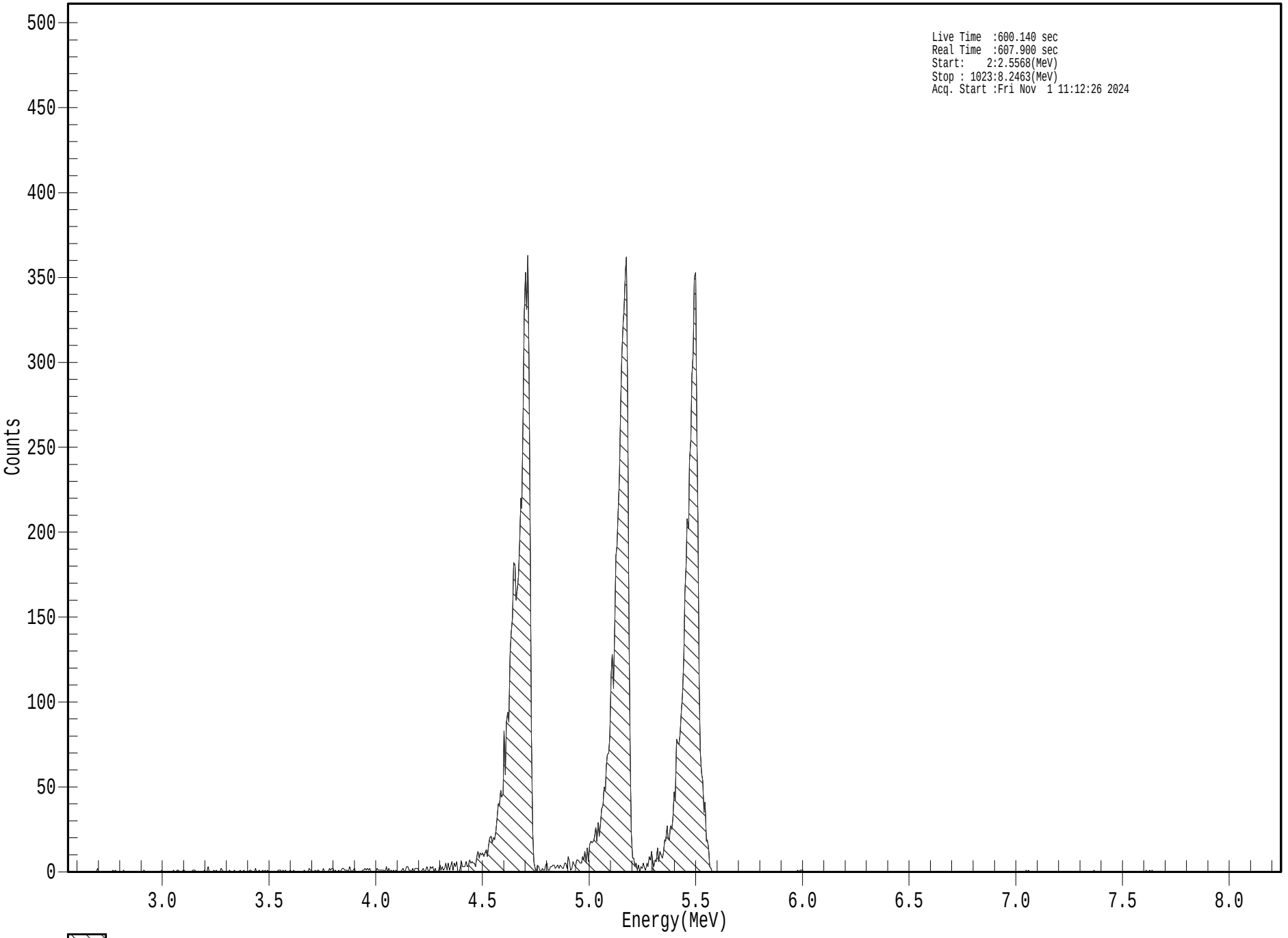
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

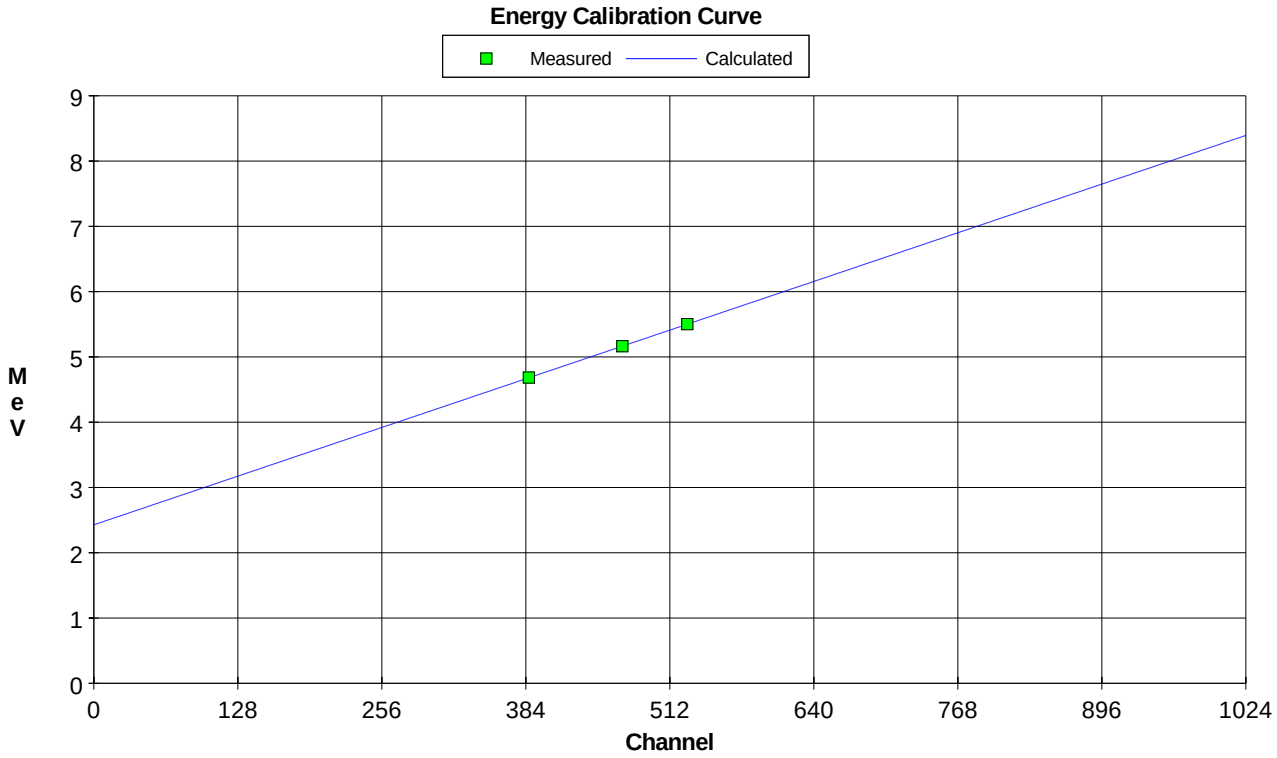
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

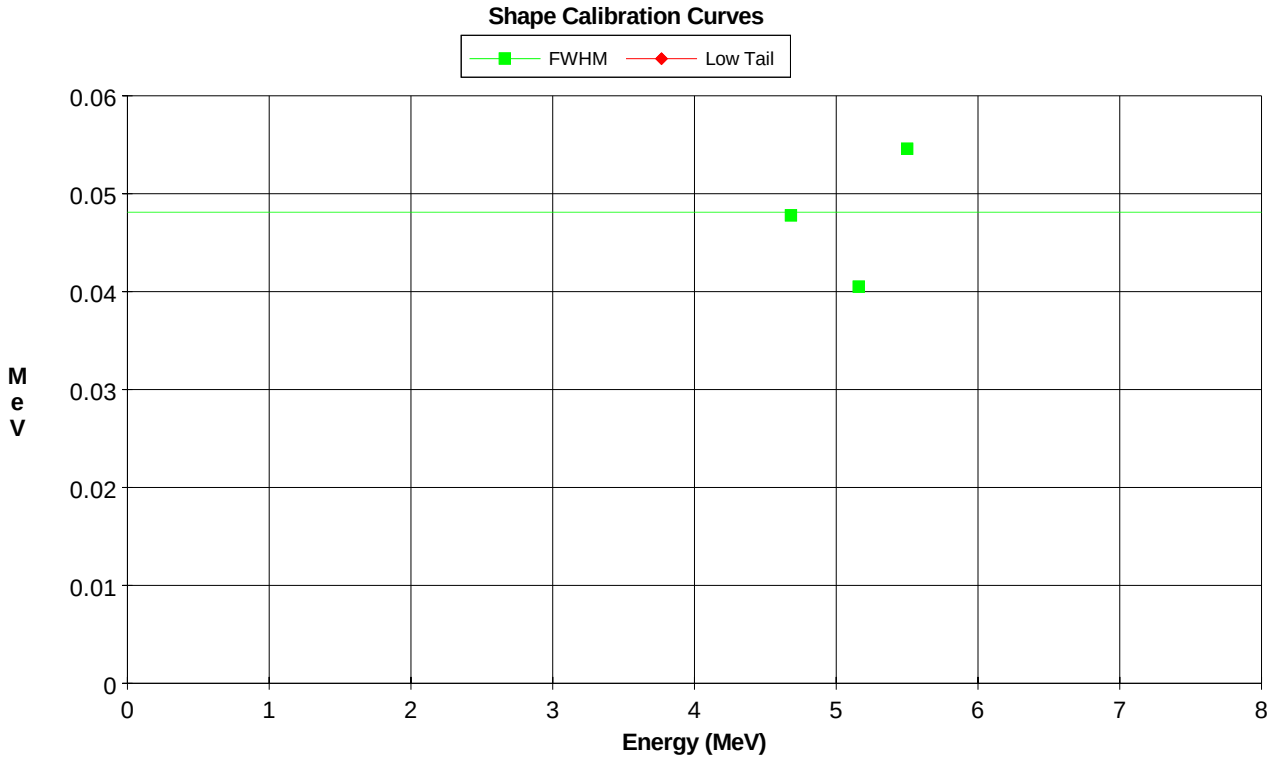
Errors quoted at 1.000 sigma

Detector A_4_1B





Datasource: A_4_1B
Energy = 2.426e+00 MeV +5.825e-03*Ch
FWHM = 4.810e-02 MeV



Datasource: A_4_1B
Energy = 2.426e+00 MeV +5.825e-03*Ch
FWHM = 4.810e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_2A
Sample Title: DET 35 SC 110124
Peak Analysis Performed on: 11/1/2024 12:05:44 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	338-	396	378.74	4661.66	54.49	4.710E+03	68.63	0.000E+00
2	428-	478	463.11	5138.45	61.02	5.164E+03	71.86	0.000E+00
3	491-	542	522.19	5472.28	47.25	4.310E+03	65.65	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 35 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.4258E+02	1.5044E+01
PU-239	1.000	5160.00*	100.00	1.0303E+03	5.3805E+01
AM-241	1.000	5485.70*	99.00	8.6863E+02	1.5796E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:05:44 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

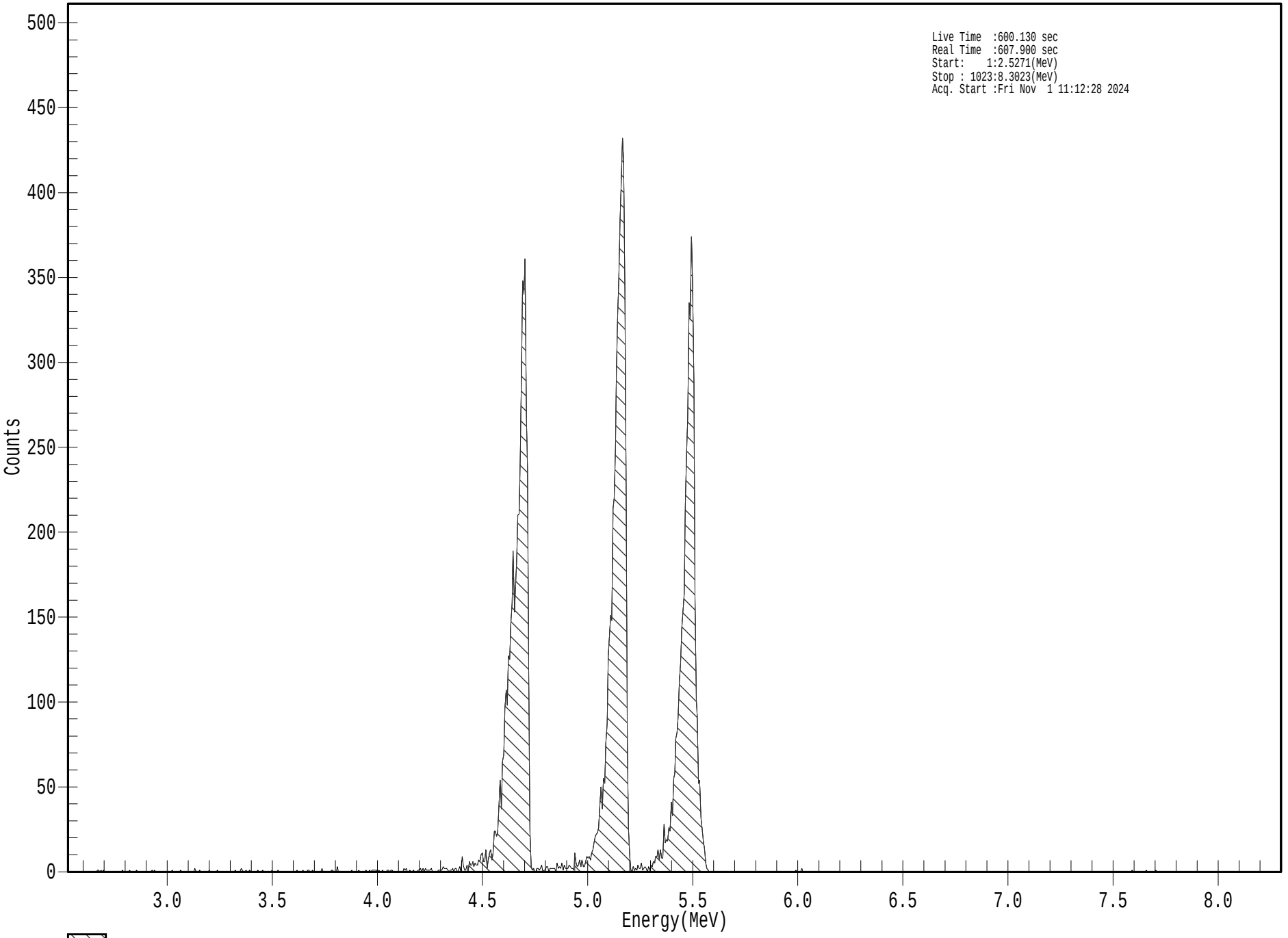
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

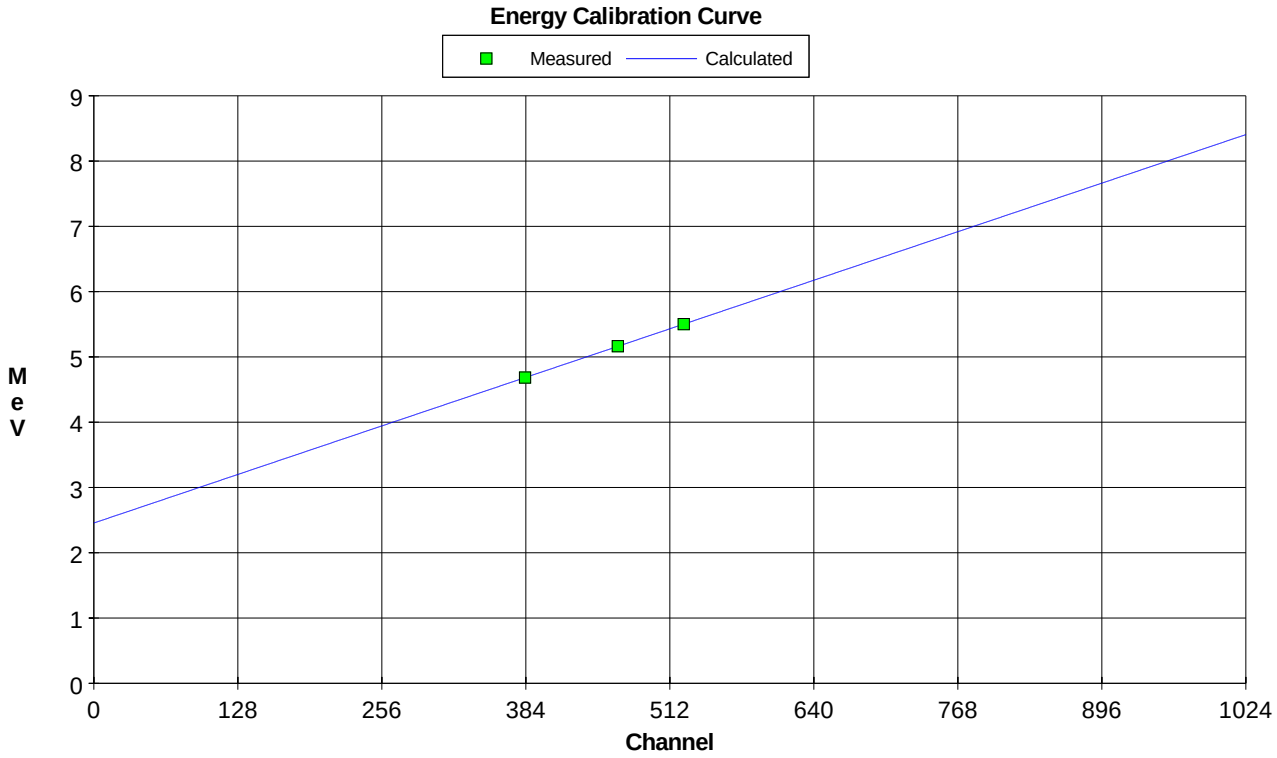
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

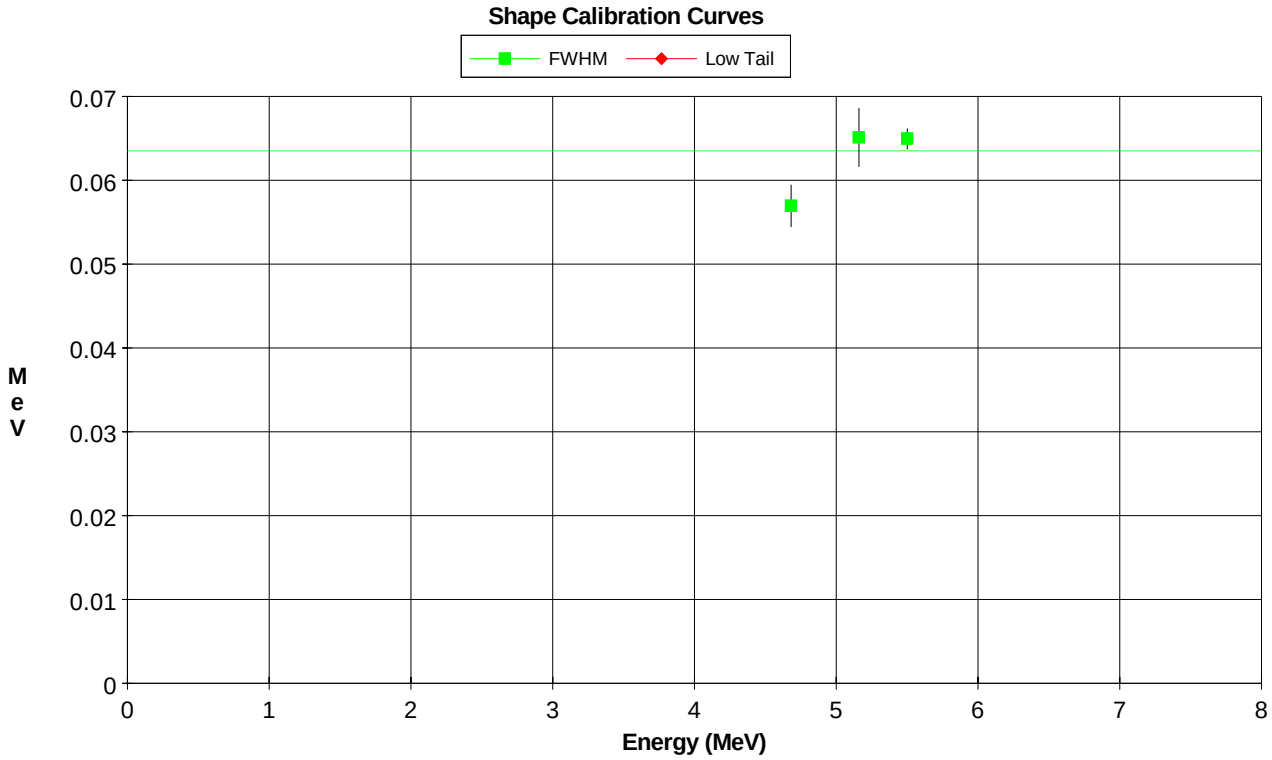
Errors quoted at 1.000 sigma

Detector A_4_2A





Datasource: A_4_2A
Energy = 2.453e+00 MeV +5.810e-03*Ch
FWHM = 6.350e-02 MeV



Datasource: A_4_2A
Energy = 2.453e+00 MeV +5.810e-03*Ch
FWHM = 6.350e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_2B
Sample Title: DET 36 SC 110124
Peak Analysis Performed on: 11/1/2024 12:06:00 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	335-	393	377.11	4669.32	42.82	5.237E+03	72.37	0.000E+00
2	425-	476	461.40	5141.00	59.06	5.189E+03	72.03	0.000E+00
3	489-	541	520.66	5472.67	50.83	4.636E+03	68.09	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 36 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.0514E+03	1.5642E+01
PU-239	1.000	5160.00*	100.00	1.0386E+03	5.4108E+01
AM-241	1.000	5485.70*	99.00	9.3729E+02	1.6298E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:06:00 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

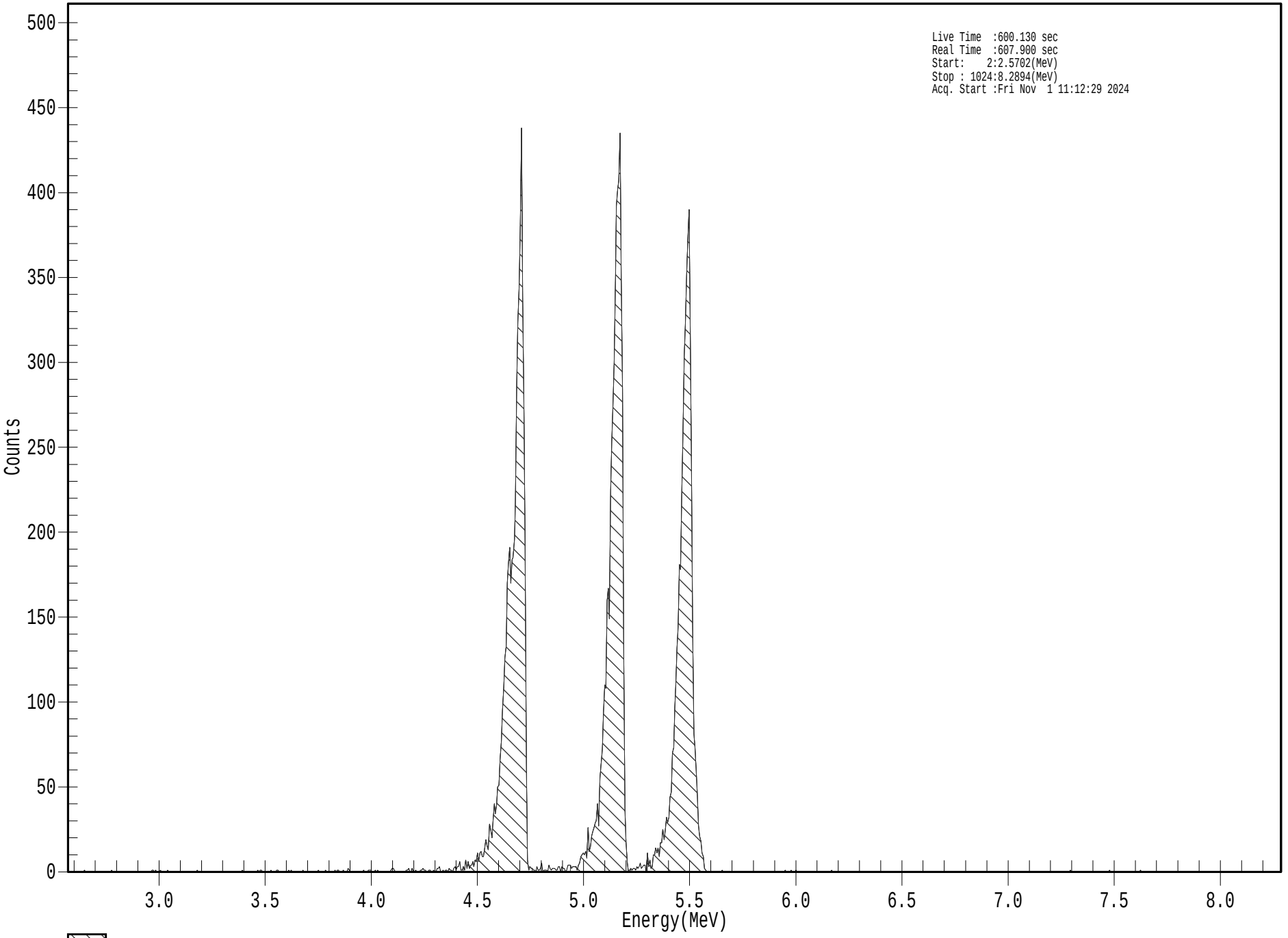
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

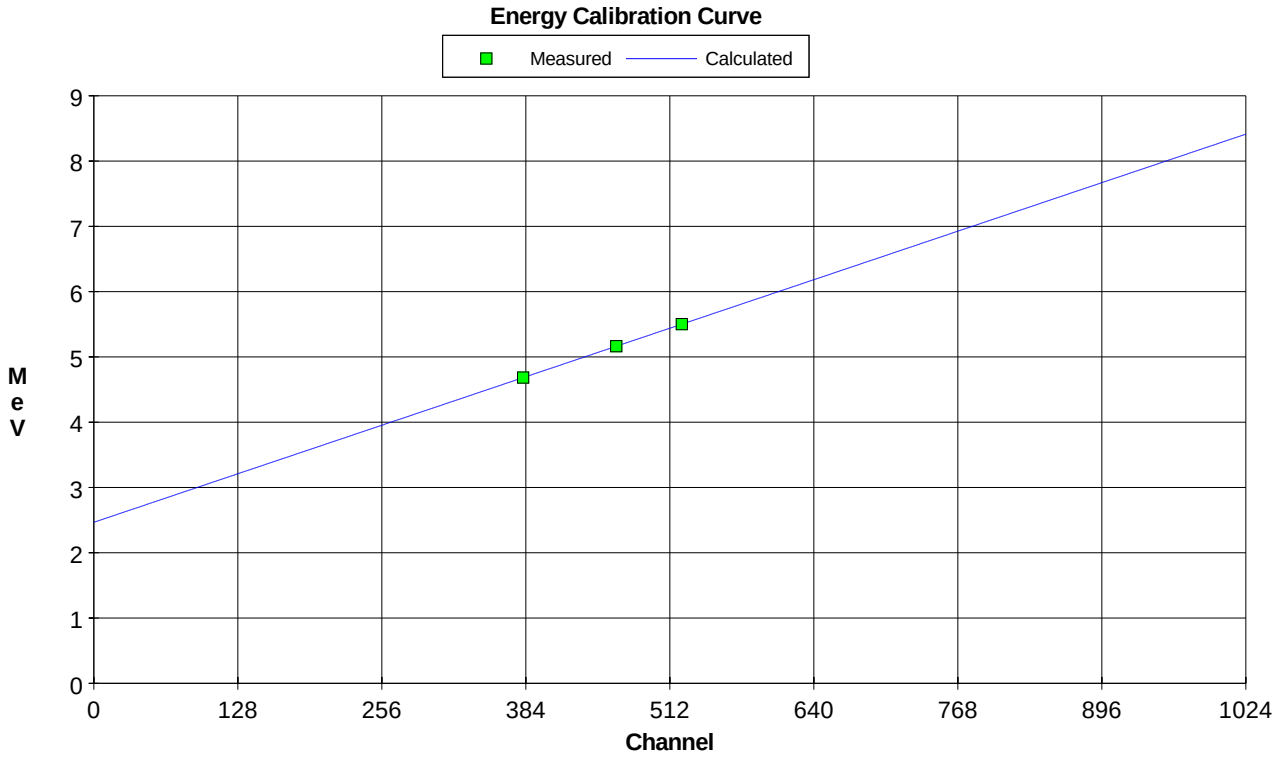
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

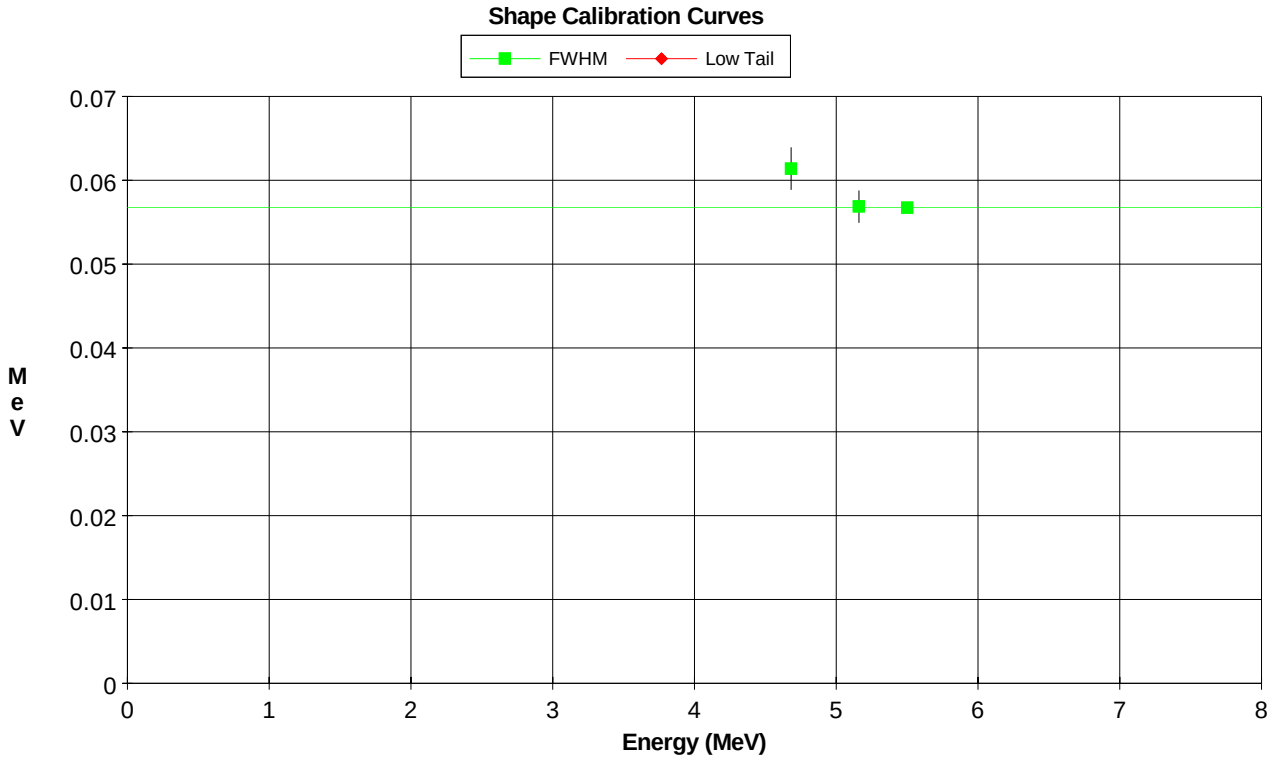
Errors quoted at 1.000 sigma

Detector A_4_2B





Datasource: A_4_2B
Energy = 2.464e+00 MeV +5.806e-03*Ch
FWHM = 5.672e-02 MeV



Datasource: A_4_2B
Energy = 2.464e+00 MeV +5.806e-03*Ch
FWHM = 5.672e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_3A
Sample Title: DET 37 SC 110124
Peak Analysis Performed on: 11/1/2024 12:06:15 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	337-	395	376.84	4658.23	54.93	5.392E+03	73.43	0.000E+00
2	426-	477	461.29	5133.94	52.91	5.193E+03	72.06	0.000E+00
3	490-	541	520.75	5468.94	62.35	4.768E+03	69.05	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 37 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.1296E+03	1.5809E+01
PU-239	1.000	5160.00*	100.00	1.0847E+03	5.6297E+01
AM-241	1.000	5485.70*	99.00	1.0060E+03	1.6723E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:06:15 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

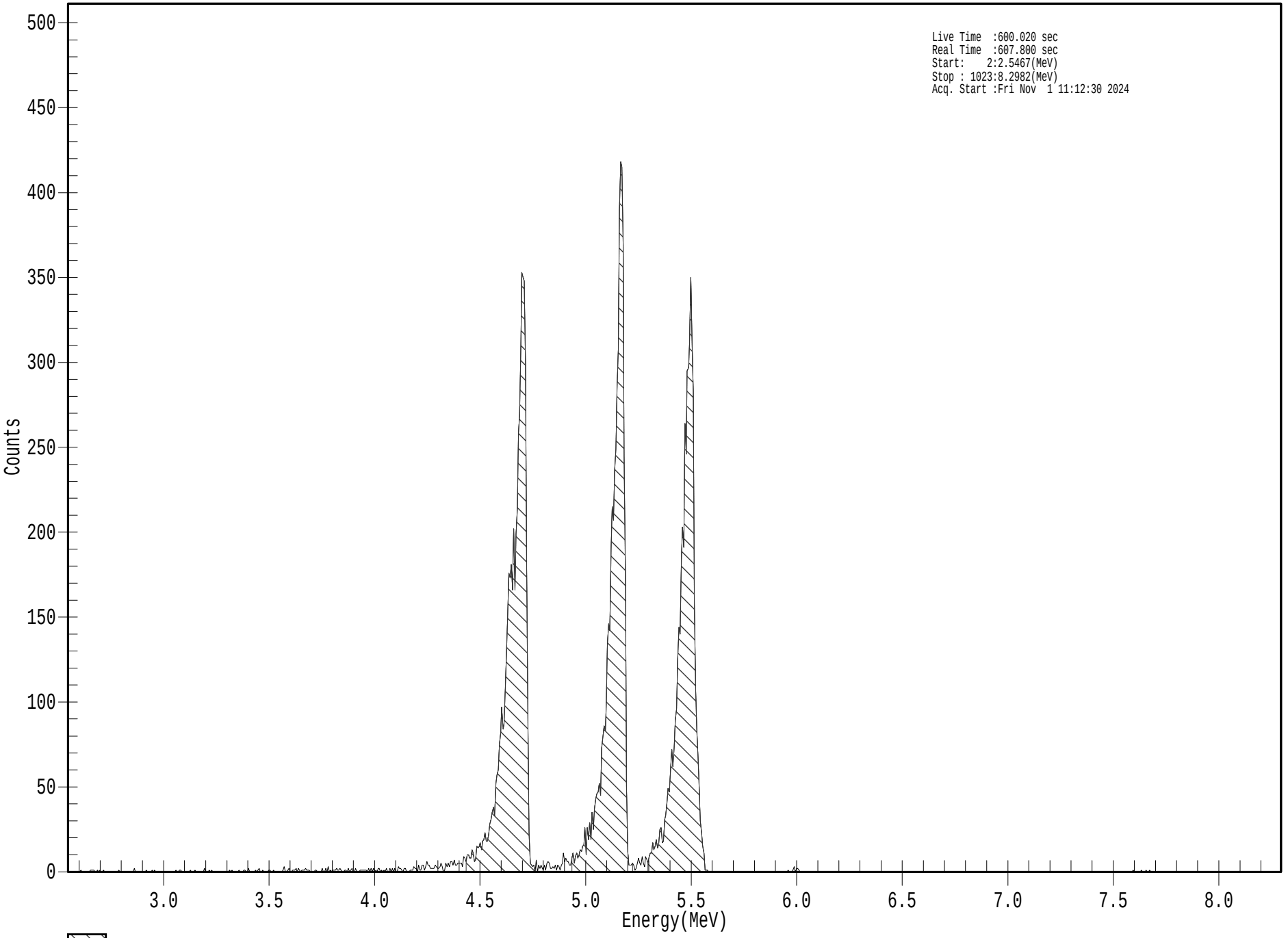
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

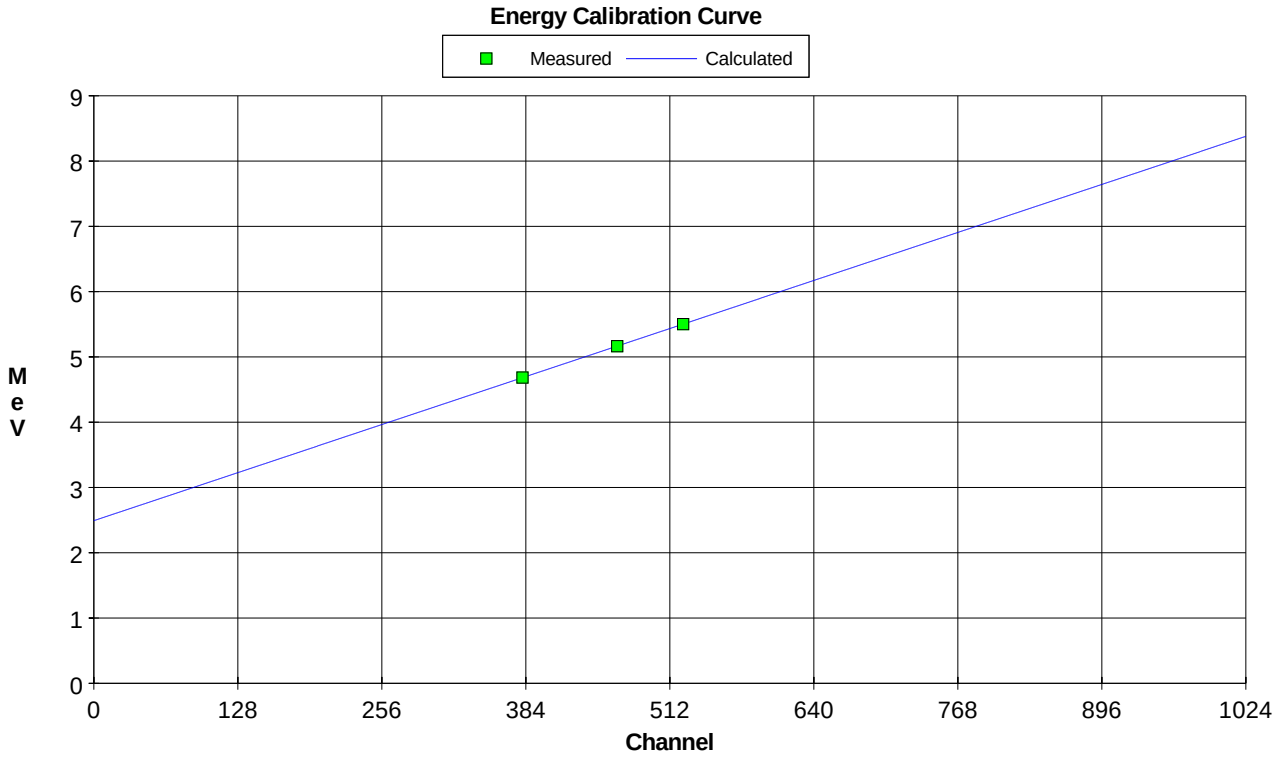
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

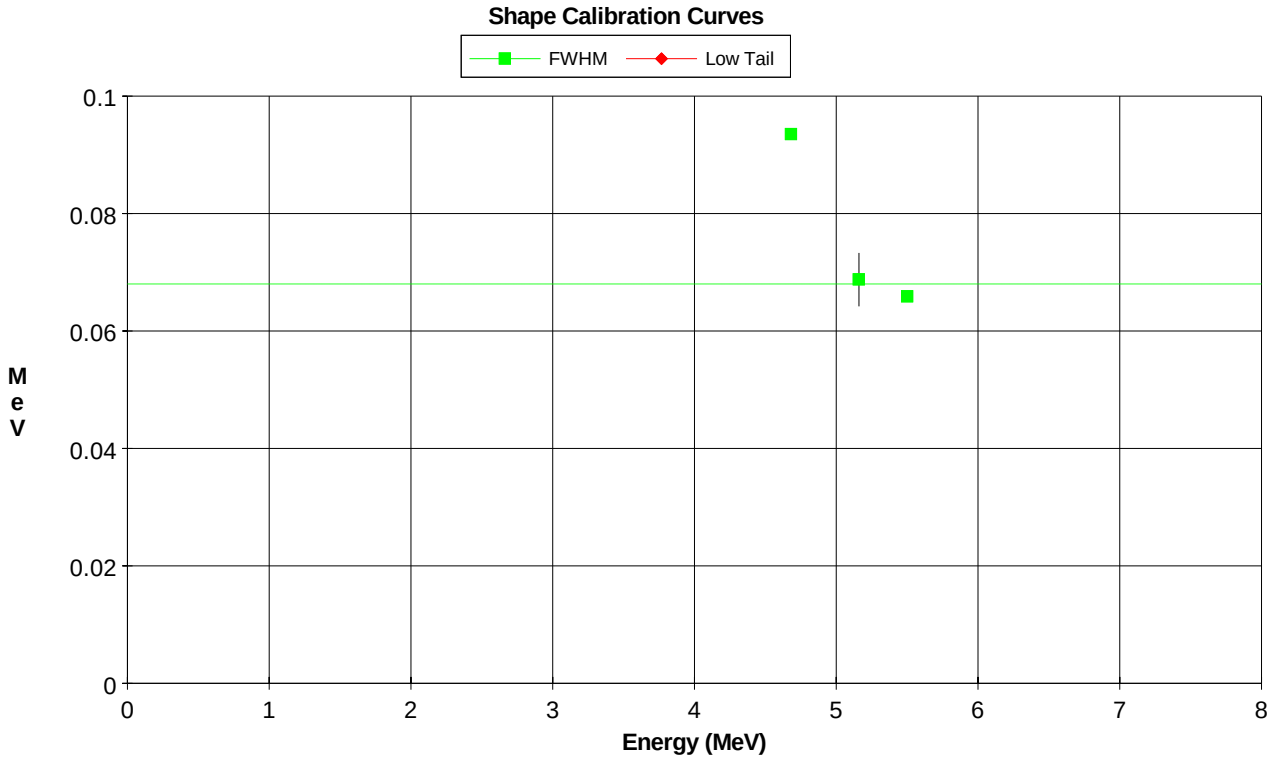
Errors quoted at 1.000 sigma

Detector A_4_3A





Datasource: A_4_3A
Energy = 2.489e+00 MeV +5.749e-03*Ch
FWHM = 6.797e-02 MeV



Datasource: A_4_3A
Energy = 2.489e+00 MeV +5.749e-03*Ch
FWHM = 6.797e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_3B
Sample Title: DET 38 SC 110124
Peak Analysis Performed on: 11/1/2024 12:06:31 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	341-	398	380.41	4659.20	53.27	5.069E+03	71.20	0.000E+00
2	429-	480	464.82	5138.60	58.96	4.801E+03	69.29	0.000E+00
3	492-	543	524.39	5476.92	59.90	4.507E+03	67.13	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 38 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.0474E+03	1.5057E+01
PU-239	1.000	5160.00*	100.00	9.8903E+02	5.1474E+01
AM-241	1.000	5485.70*	99.00	9.3784E+02	1.5902E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:06:31 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

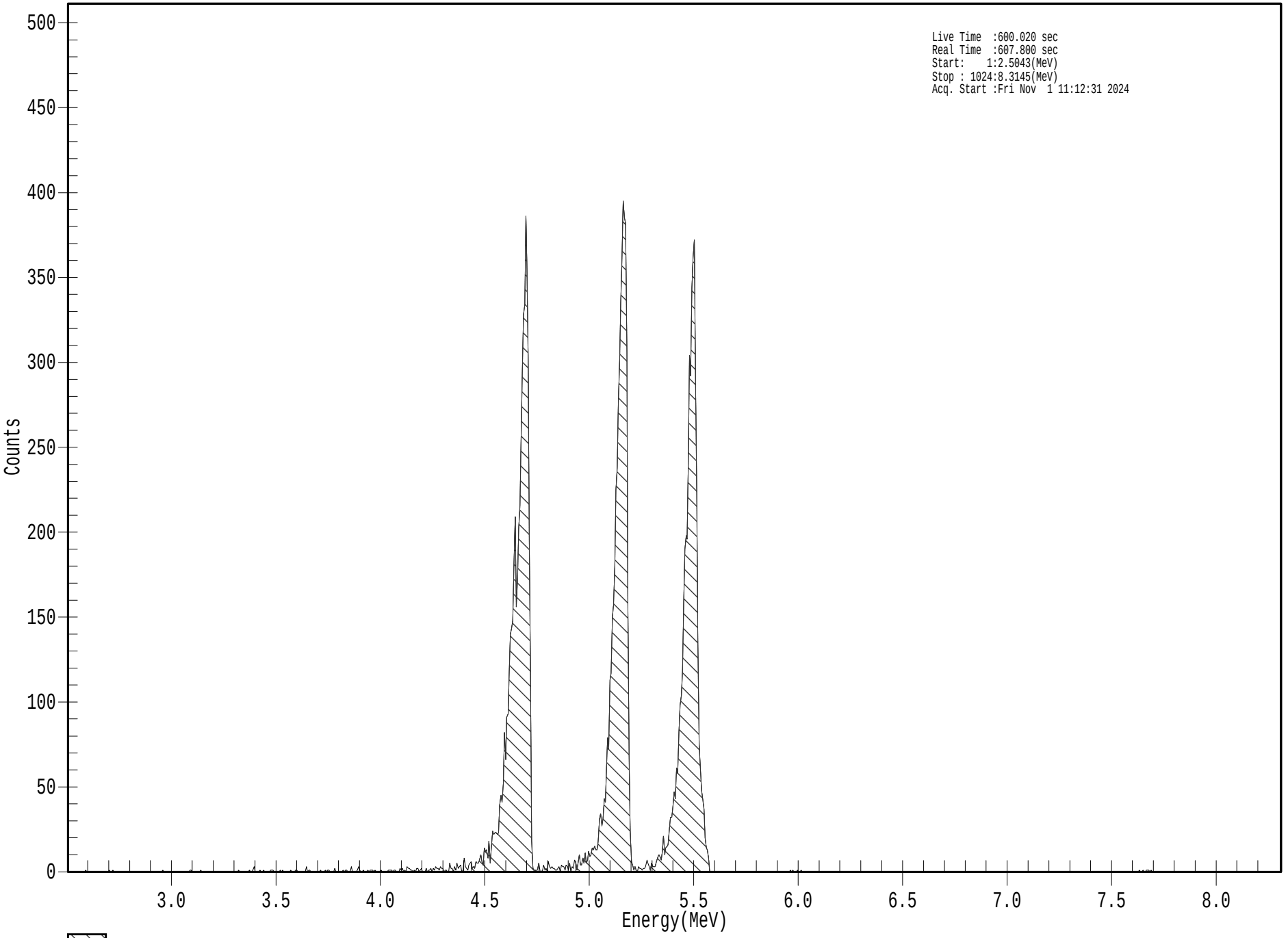
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

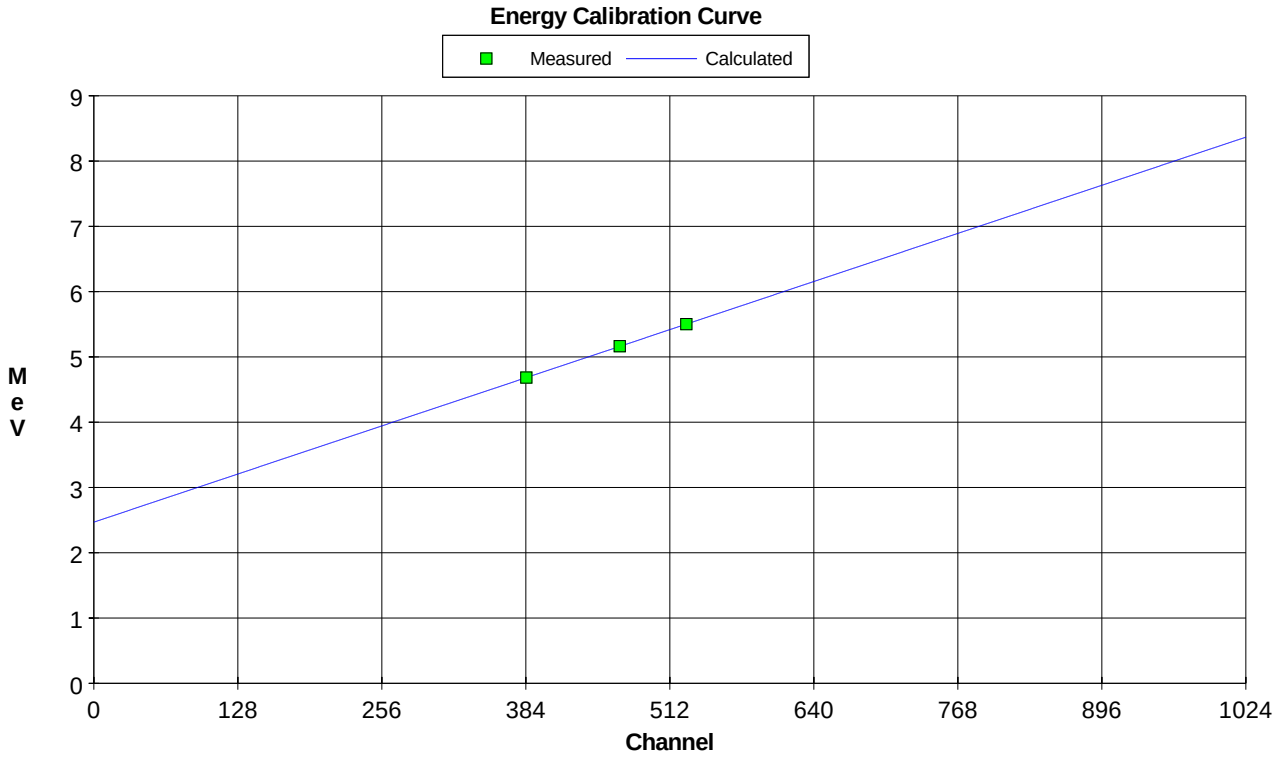
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

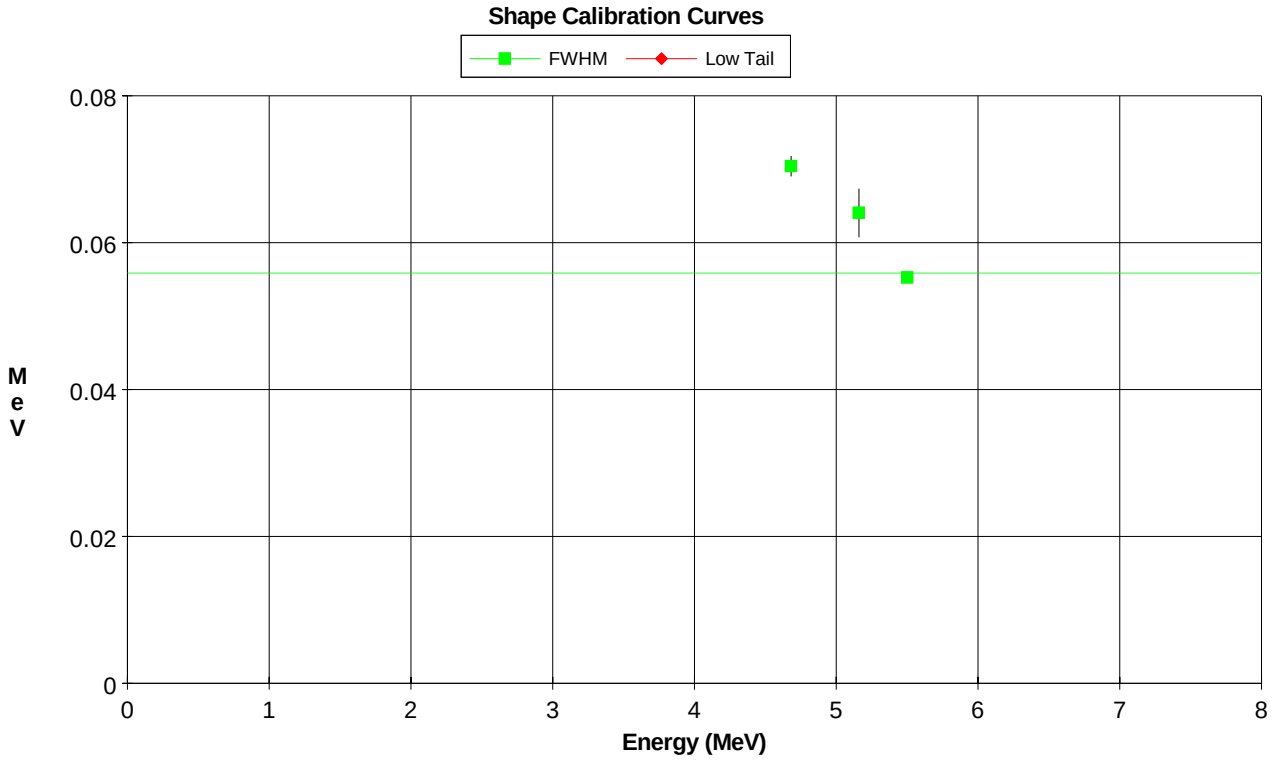
Errors quoted at 1.000 sigma

Detector A_4_3B





Datasource: A_4_3B
Energy = 2.467e+00 MeV +5.759e-03*Ch
FWHM = 5.584e-02 MeV



Datasource: A_4_3B
Energy = 2.467e+00 MeV +5.759e-03*Ch
FWHM = 5.584e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_4A
Sample Title: DET 39 SC 110124
Peak Analysis Performed on: 11/1/2024 12:06:46 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	340-	399	381.76	4662.92	66.34	5.256E+03	72.50	0.000E+00
2	431-	483	466.29	5133.73	61.12	5.328E+03	72.99	0.000E+00
3	495-	547	526.23	5467.55	56.87	4.562E+03	67.54	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 39 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.9253E+02	1.5611E+01
PU-239	1.000	5160.00*	100.00	1.0031E+03	5.2467E+01
AM-241	1.000	5485.70*	99.00	8.6757E+02	1.5822E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:06:46 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

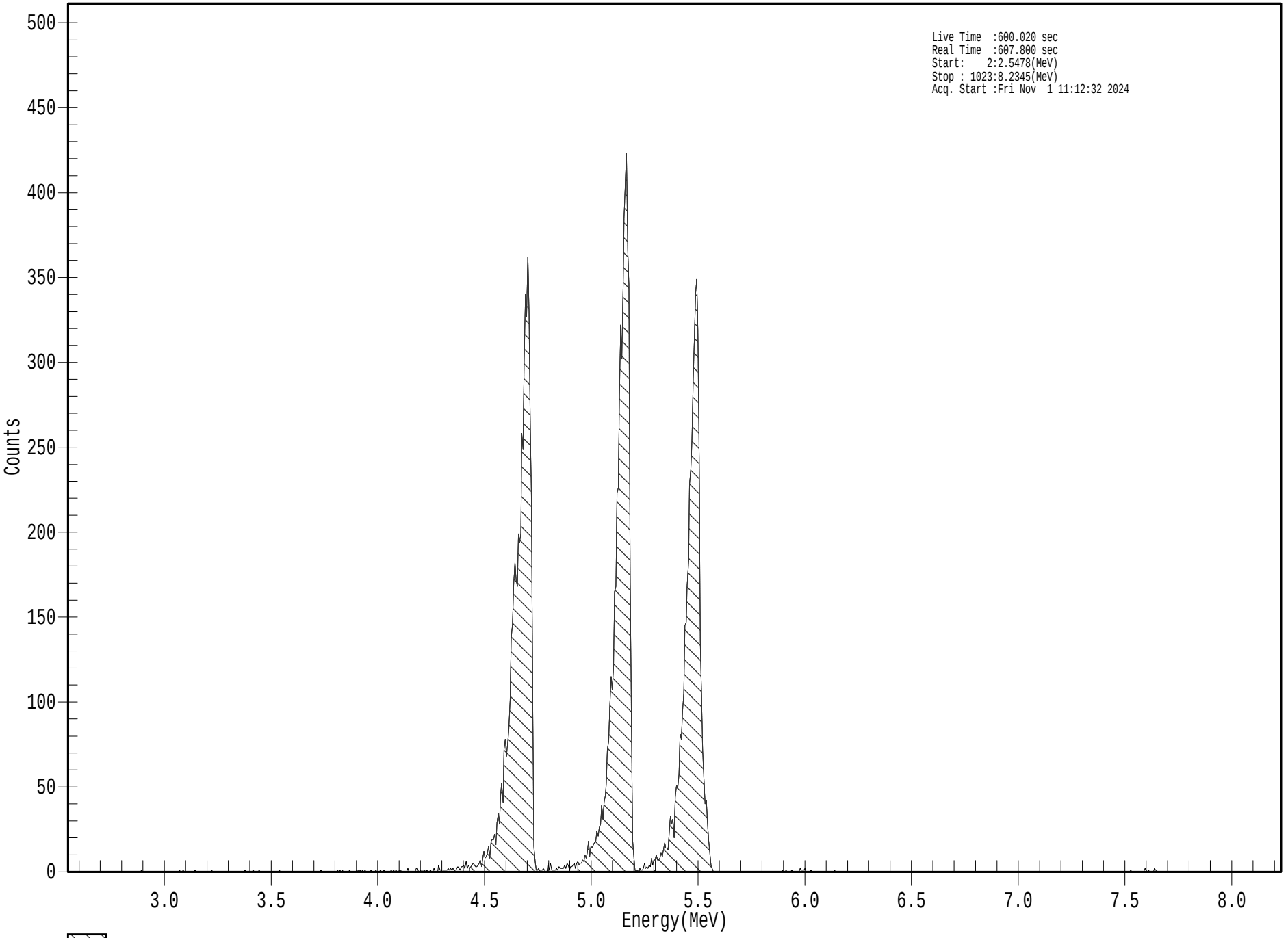
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

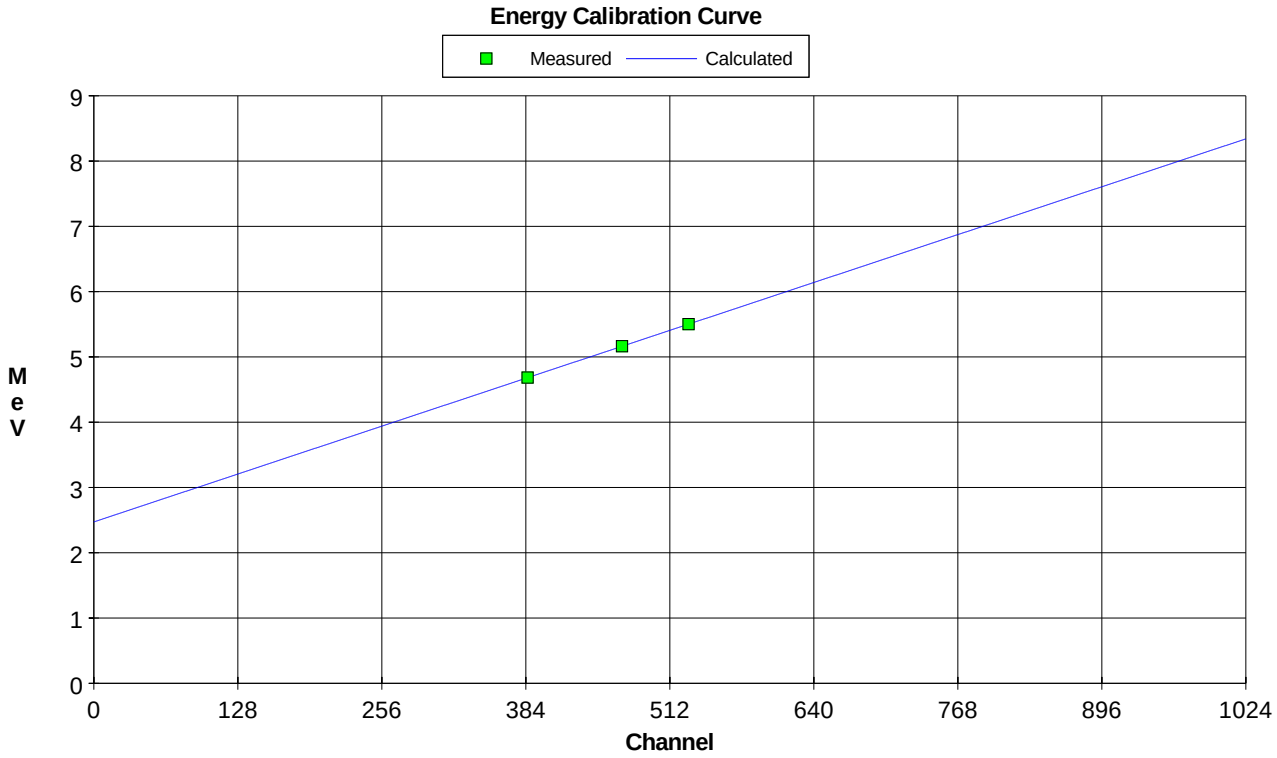
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

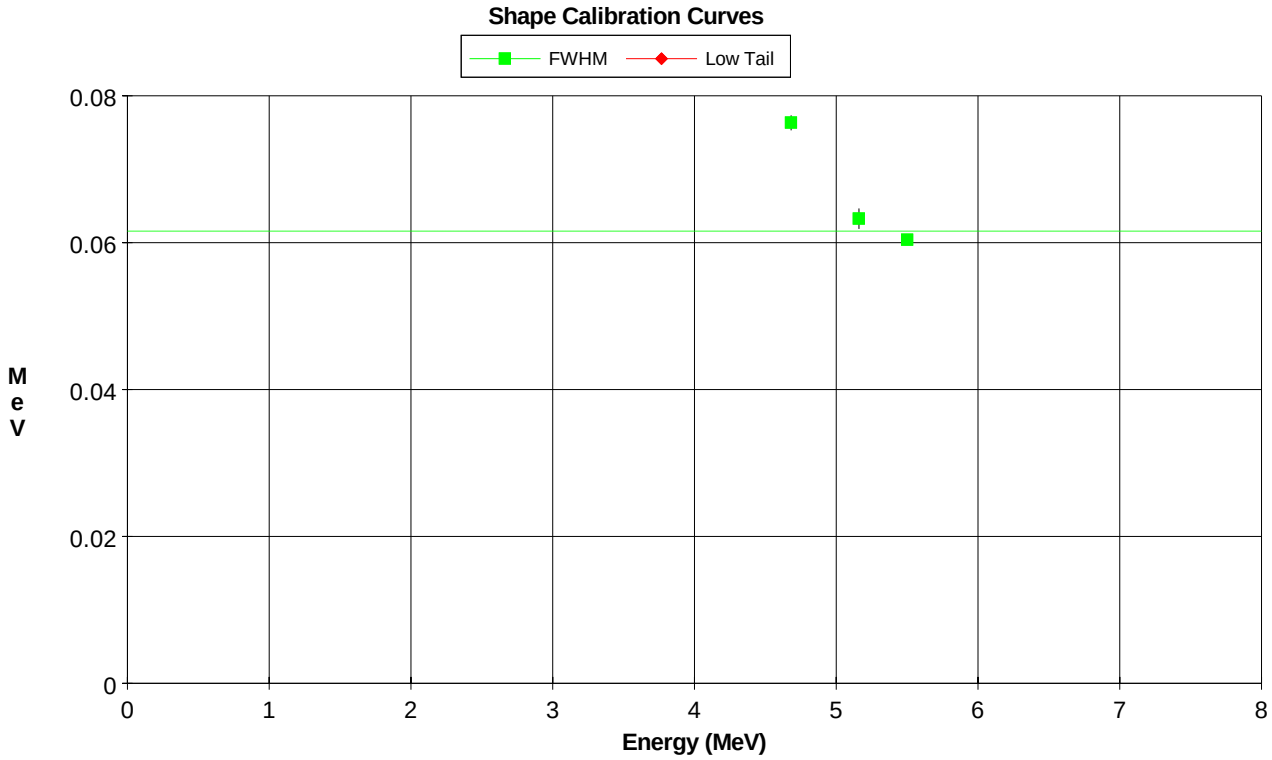
Errors quoted at 1.000 sigma

Detector A_4_4A





Datasource: A_4_4A
Energy = 2.470e+00 MeV +5.730e-03*Ch
FWHM = 6.155e-02 MeV



Datasource: A_4_4A
Energy = 2.470e+00 MeV +5.730e-03*Ch
FWHM = 6.155e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_4B
Sample Title: DET 40 SC 110124
Peak Analysis Performed on: 11/1/2024 12:07:02 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	340-	398	379.79	4655.54	71.90	5.238E+03	72.37	0.000E+00
2	430-	481	464.39	5132.39	59.41	5.192E+03	72.06	0.000E+00
3	493-	545	523.66	5466.45	51.30	4.733E+03	68.80	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 40 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.0775E+03	1.7254E+01
PU-239	1.000	5160.00*	100.00	1.0648E+03	5.5830E+01
AM-241	1.000	5485.70*	99.00	9.8049E+02	1.7894E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:07:02 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

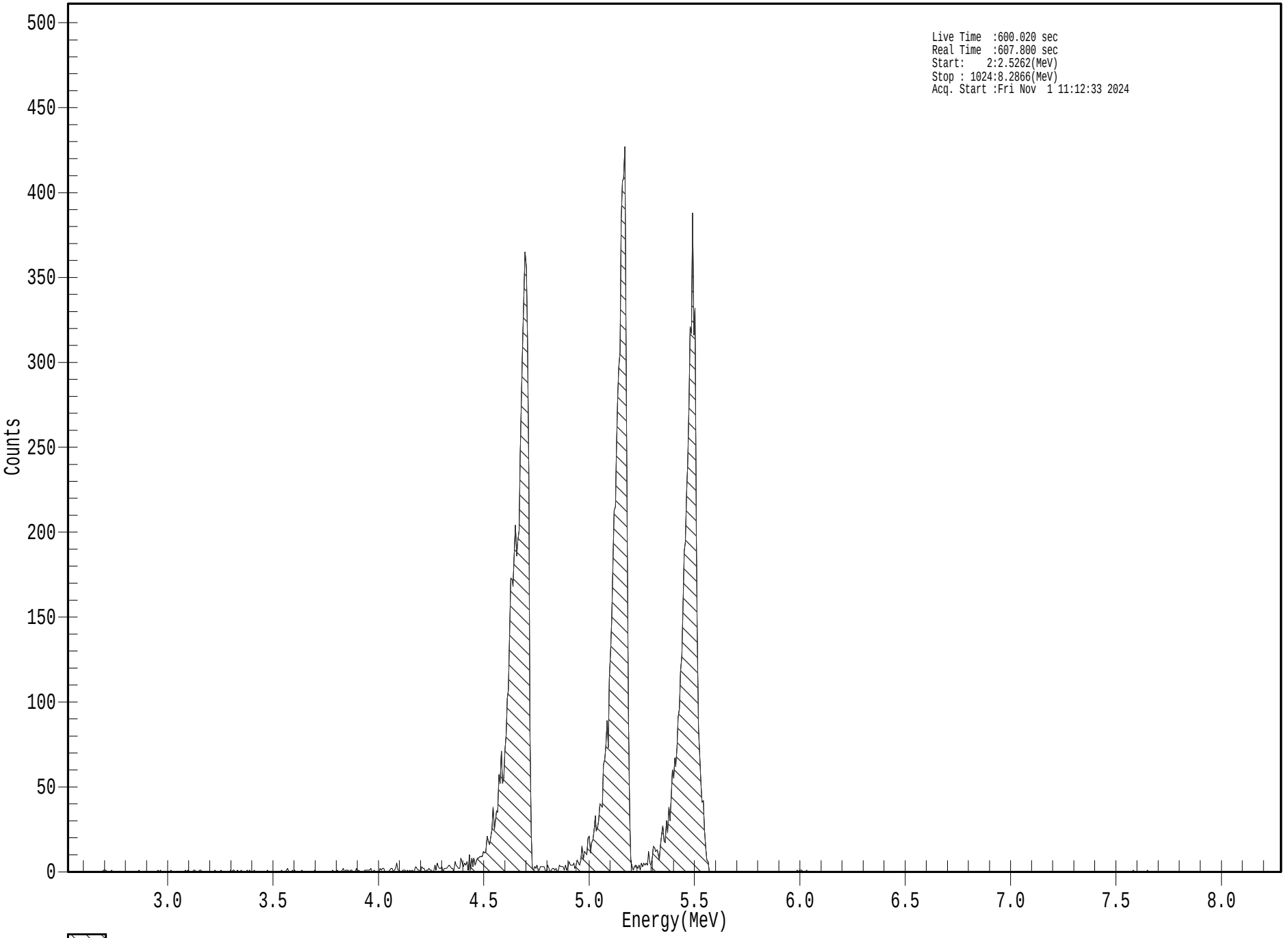
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

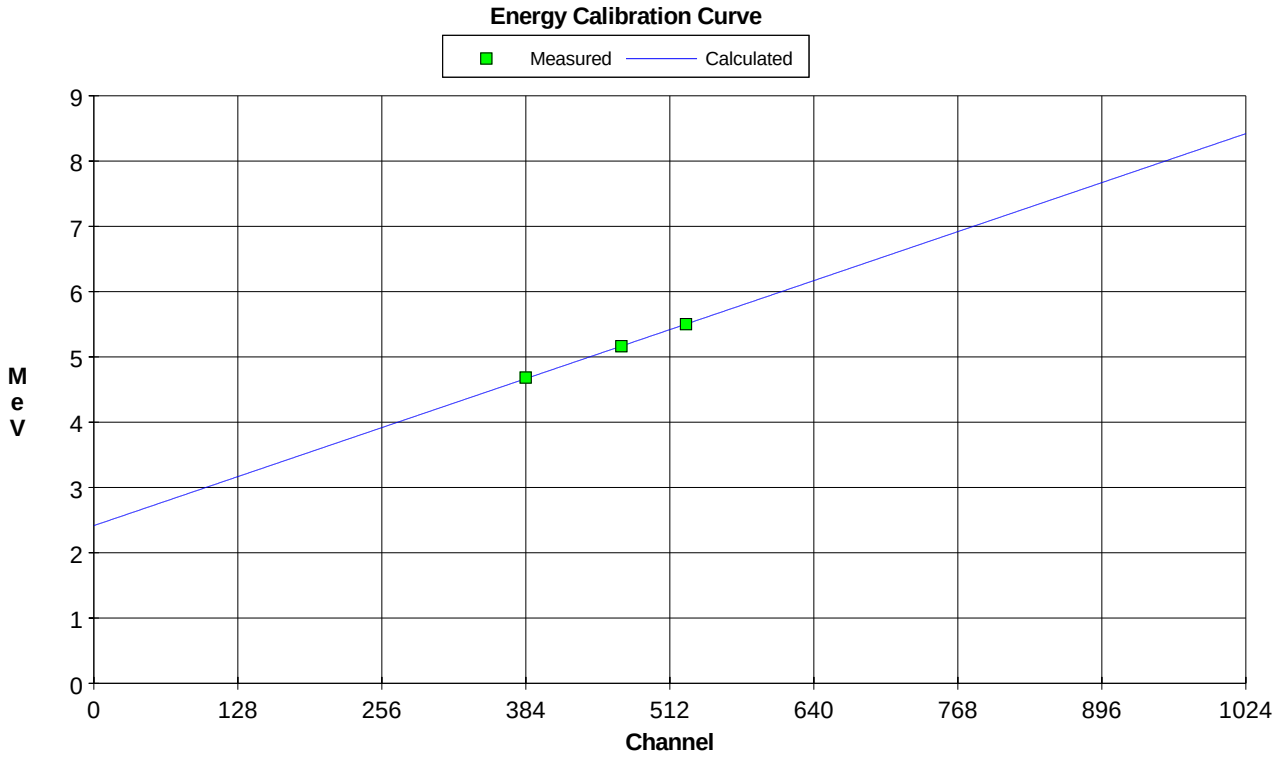
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

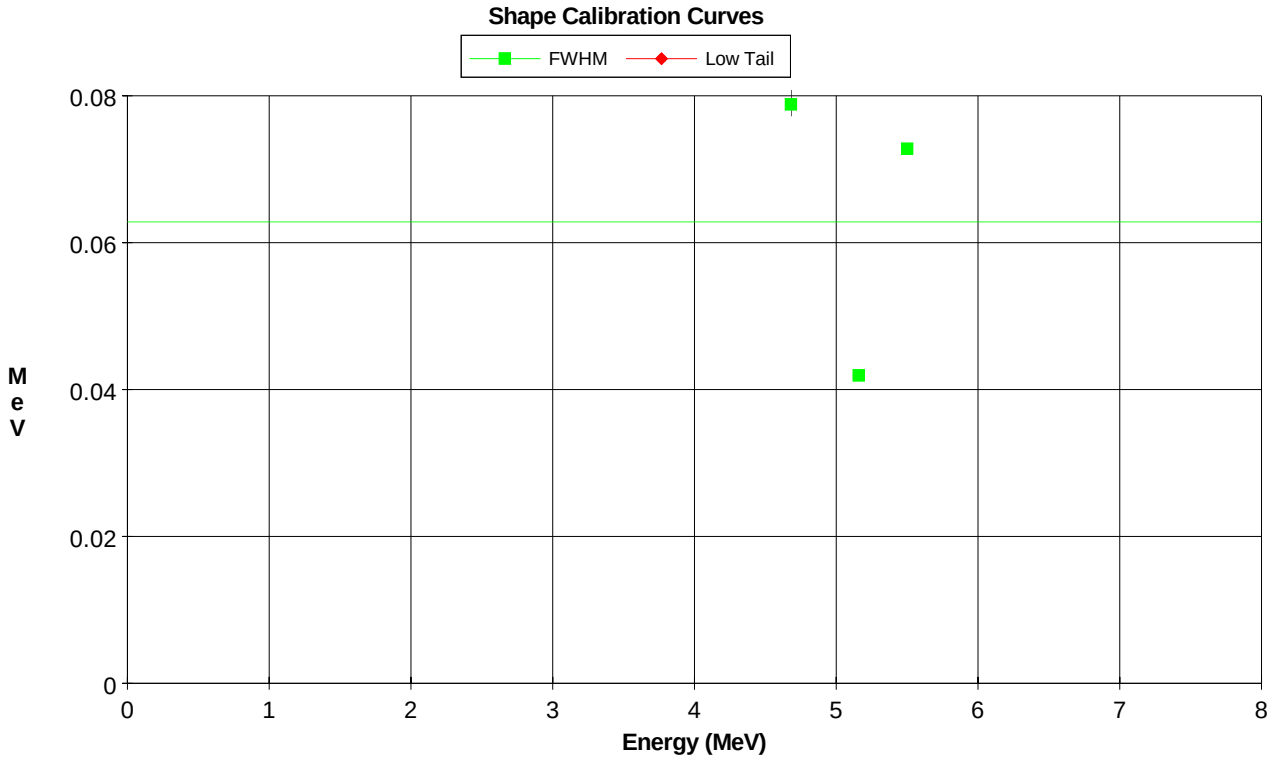
Errors quoted at 1.000 sigma

Detector A_4_4B





Datasource: A_4_4B
Energy = 2.413e+00 MeV +5.864e-03*Ch
FWHM = 6.283e-02 MeV



Datasource: A_4_4B
Energy = 2.413e+00 MeV +5.864e-03*Ch
FWHM = 6.283e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_5A
Sample Title: DET 41 SC 110124
Peak Analysis Performed on: 11/1/2024 12:07:17 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	397	378.72	4658.01	66.89	5.134E+03	71.65	0.000E+00
2	428-	479	463.41	5134.79	58.59	4.799E+03	69.27	0.000E+00
3	492-	543	523.27	5471.83	58.59	4.758E+03	68.98	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 41 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	9.8998E+02	1.4238E+01
PU-239	1.000	5160.00*	100.00	9.2261E+02	4.8041E+01
AM-241	1.000	5485.70*	99.00	9.2396E+02	1.5419E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:07:17 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

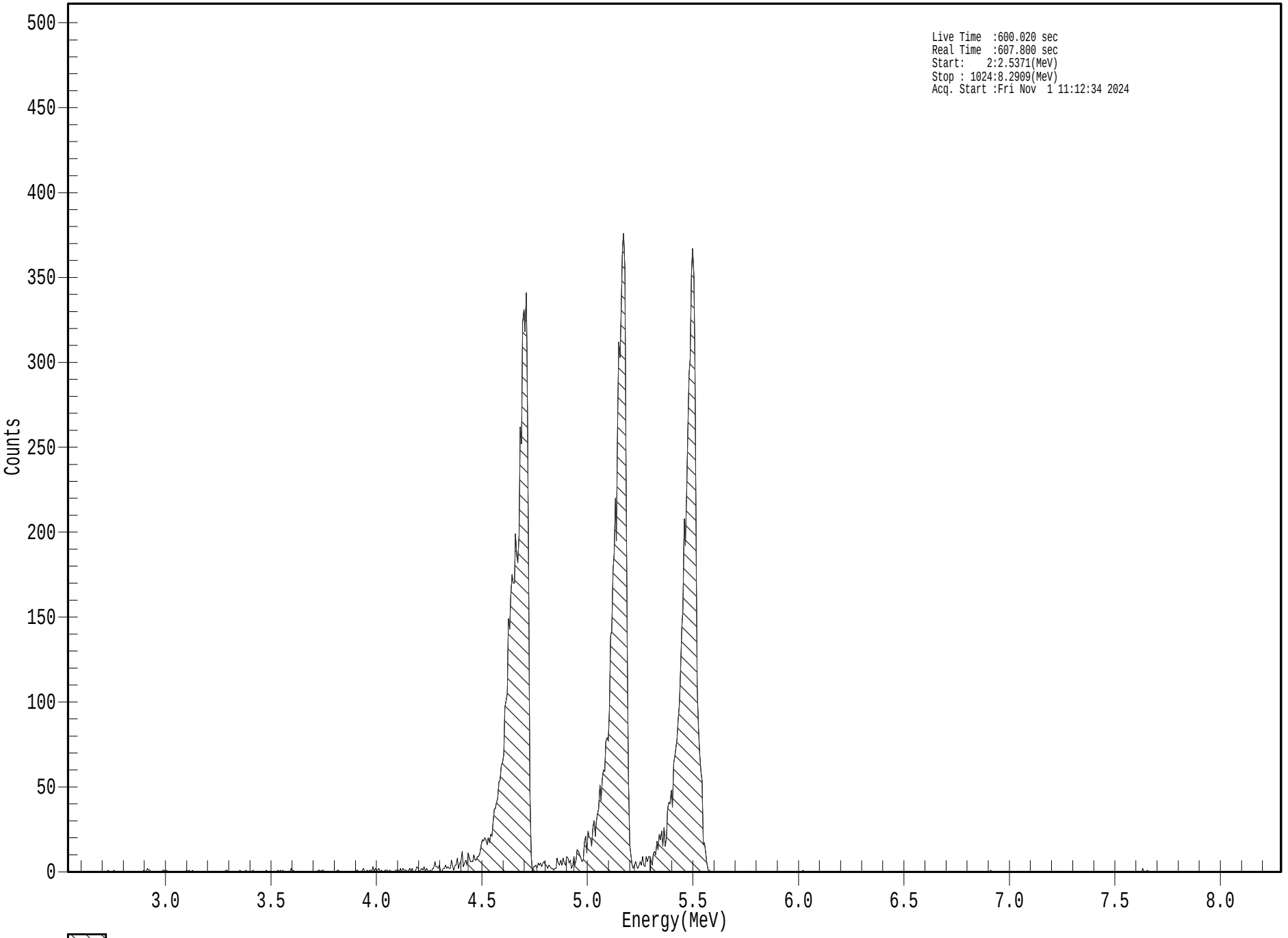
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

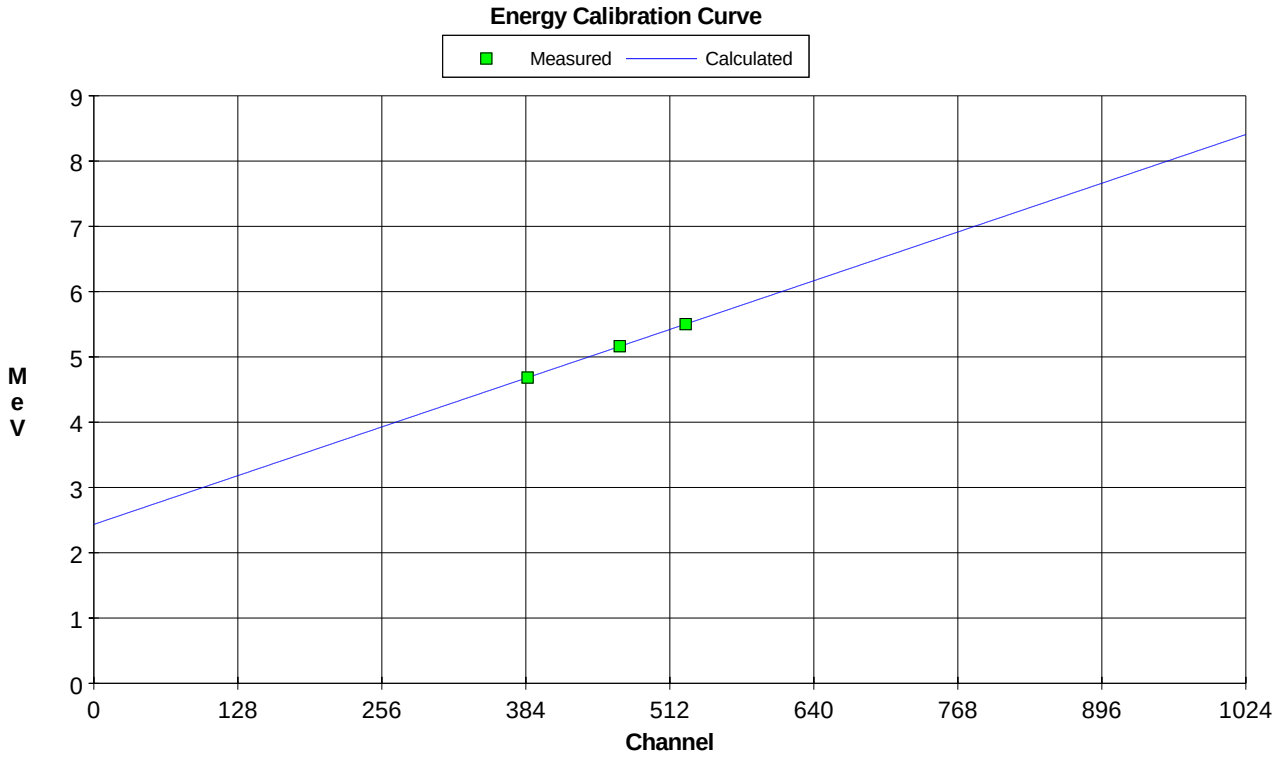
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

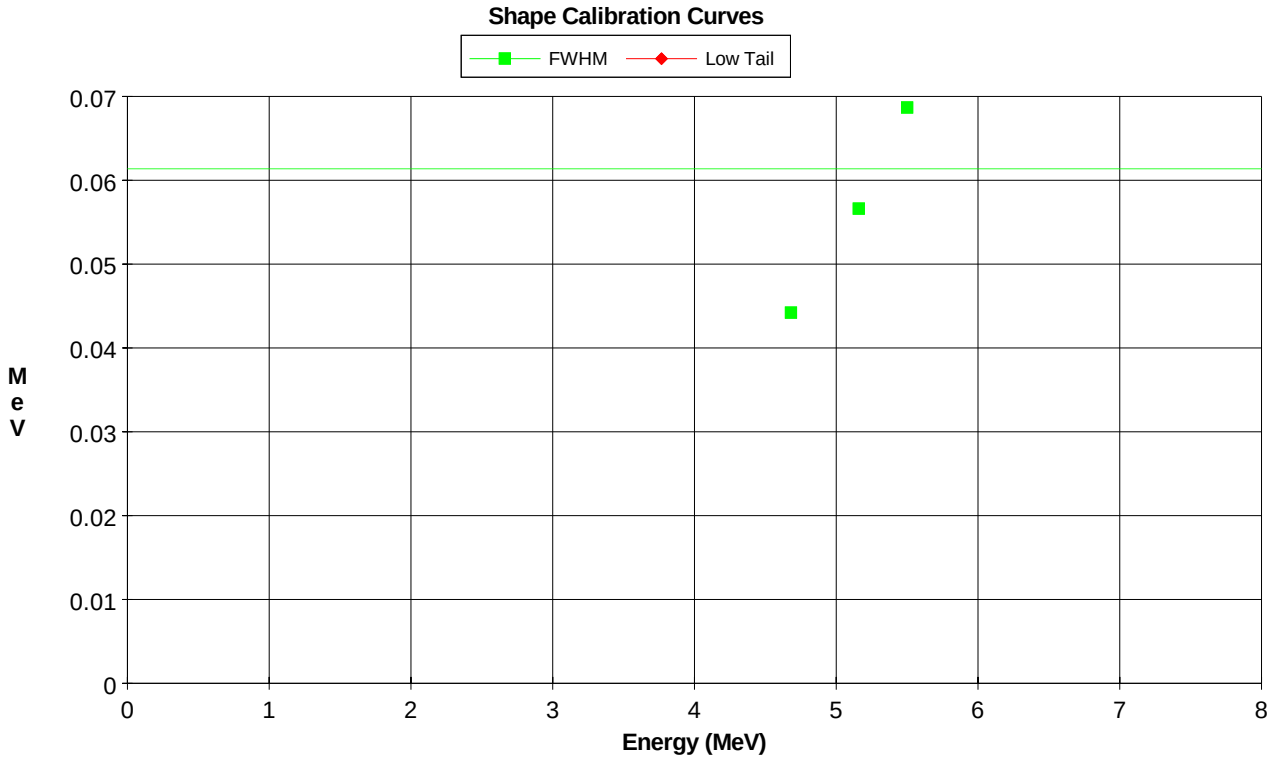
Errors quoted at 1.000 sigma

Detector A_4_5A





Datasource: A_4_5A
Energy = 2.432e+00 MeV +5.832e-03*Ch
FWHM = 6.136e-02 MeV



Datasource: A_4_5A
Energy = 2.432e+00 MeV +5.832e-03*Ch
FWHM = 6.136e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_5B
Sample Title: DET 42 SC 110124
Peak Analysis Performed on: 11/1/2024 12:07:33 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	397	379.52	4663.59	55.63	5.215E+03	72.21	0.000E+00
2	428-	479	463.87	5138.14	58.33	5.041E+03	71.00	0.000E+00
3	491-	543	523.34	5472.73	57.11	4.863E+03	69.74	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 42 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.0356E+03	1.5632E+01
PU-239	1.000	5160.00*	100.00	9.9807E+02	5.2105E+01
AM-241	1.000	5485.70*	99.00	9.7255E+02	1.6788E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:07:33 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

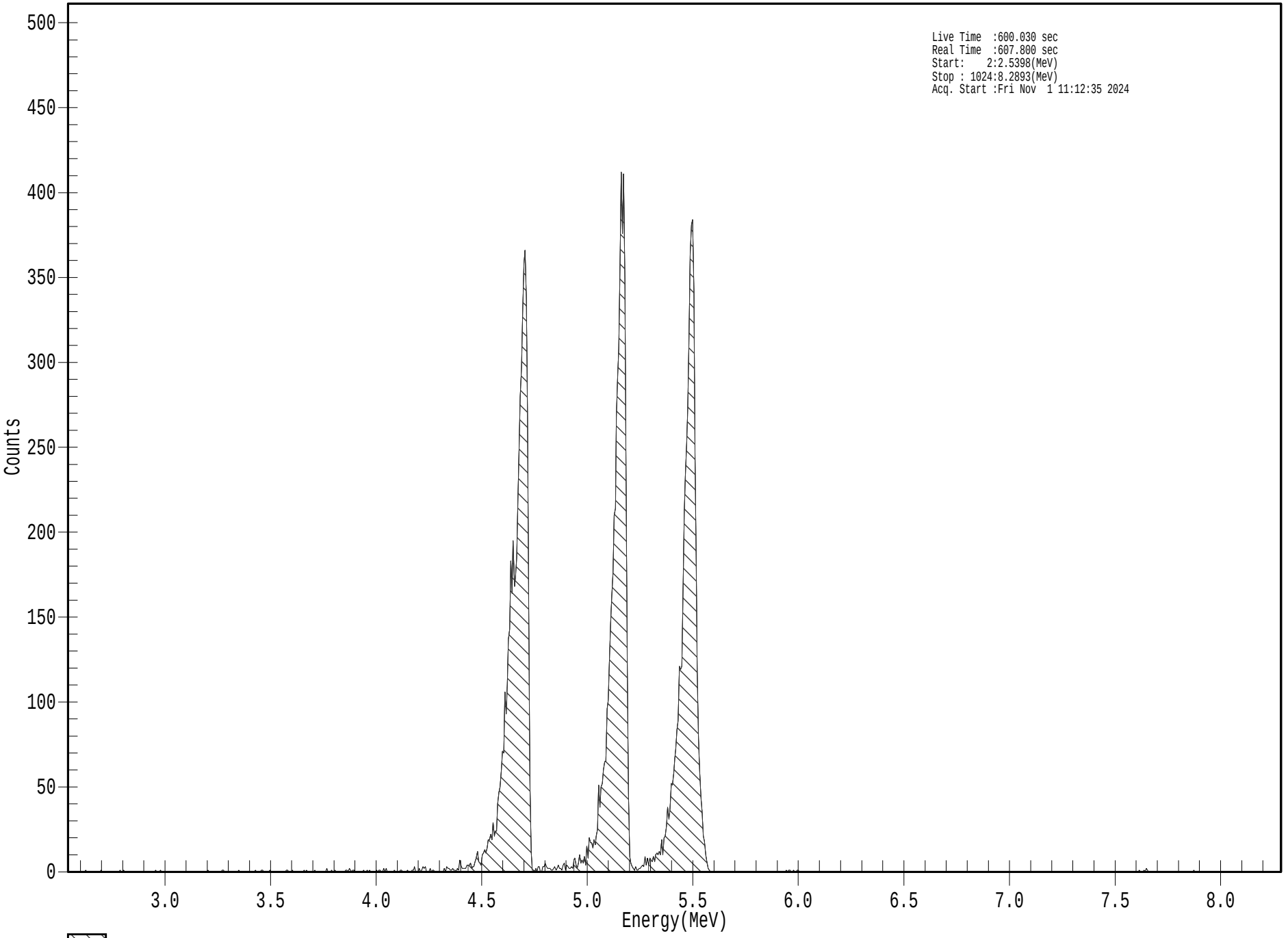
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

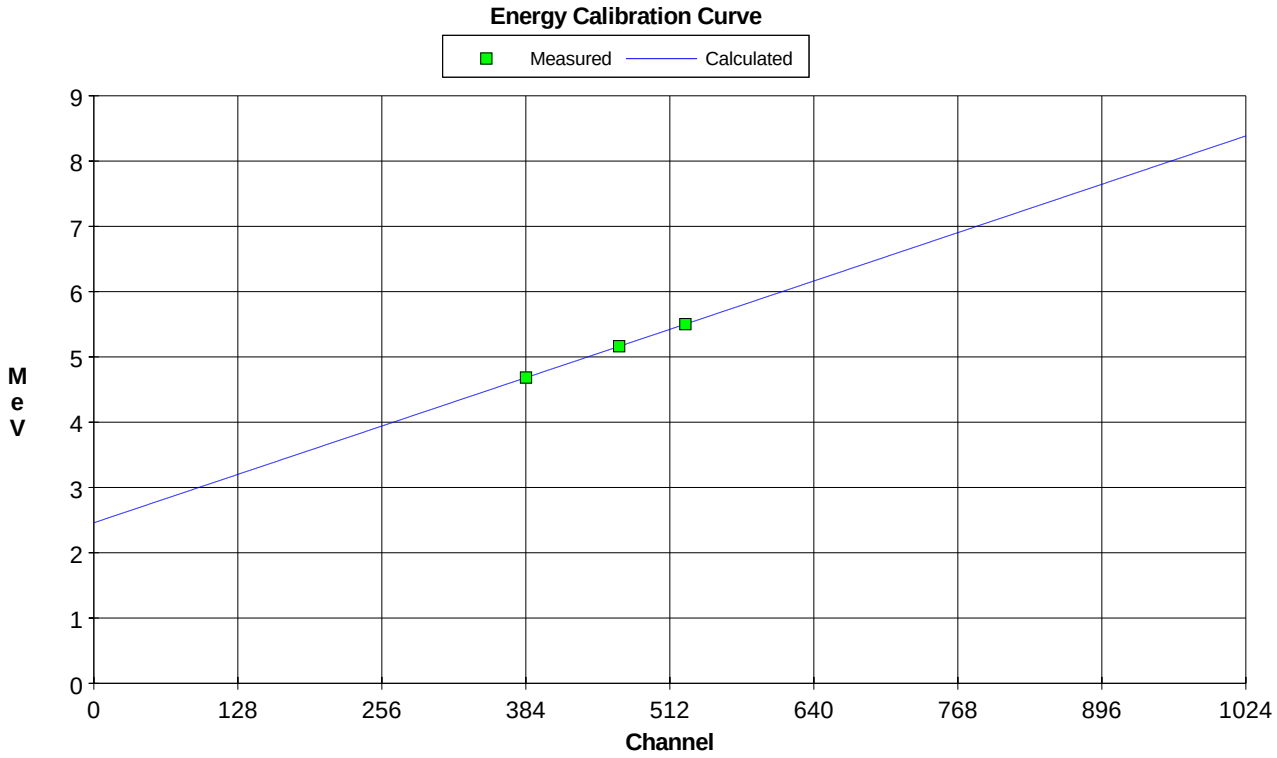
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

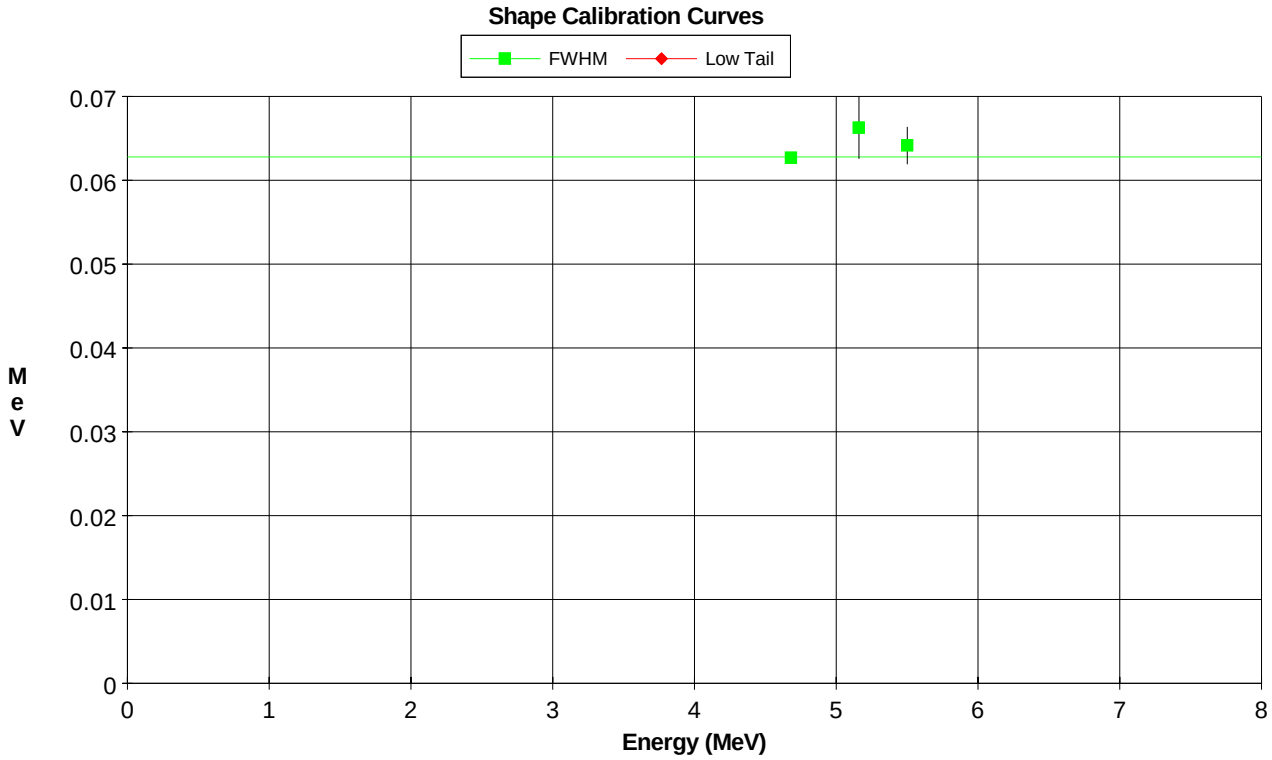
Errors quoted at 1.000 sigma

Detector A_4_5B





Datasource: A_4_5B
Energy = 2.457e+00 MeV +5.787e-03*Ch
FWHM = 6.277e-02 MeV



Datasource: A_4_5B
Energy = 2.457e+00 MeV +5.787e-03*Ch
FWHM = 6.277e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_6A
Sample Title: DET 43 SC 110124
Peak Analysis Performed on: 11/1/2024 12:07:48 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	340-	397	378.64	4654.75	52.35	5.136E+03	71.67	0.000E+00
2	428-	478	462.88	5136.36	54.67	5.413E+03	73.57	0.000E+00
3	490-	541	522.14	5475.12	55.77	4.994E+03	70.67	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 43 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	9.6422E+02	1.3809E+01
PU-239	1.000	5160.00*	100.00	1.0132E+03	5.2510E+01
AM-241	1.000	5485.70*	99.00	9.4419E+02	1.5424E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:07:48 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

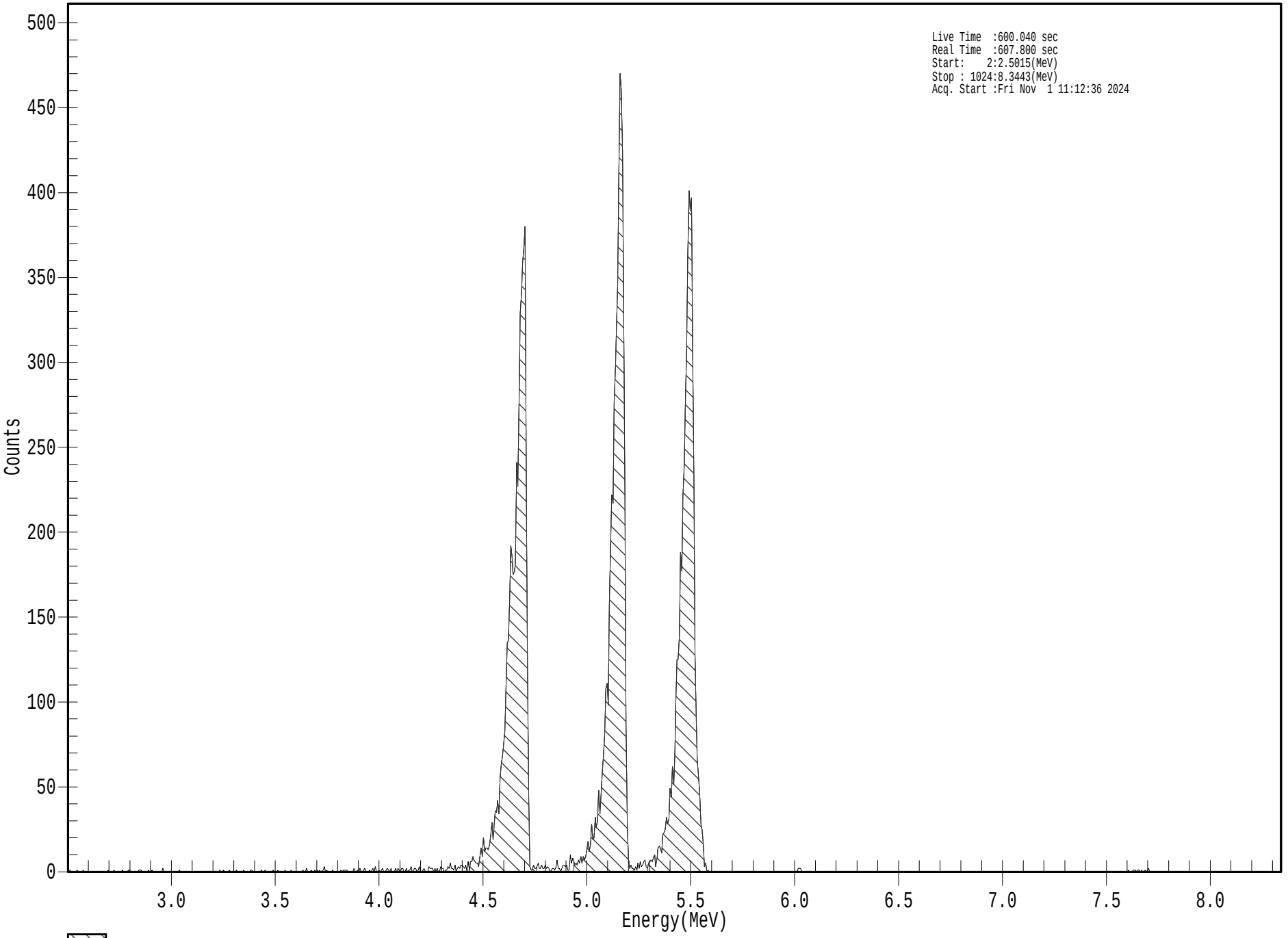
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

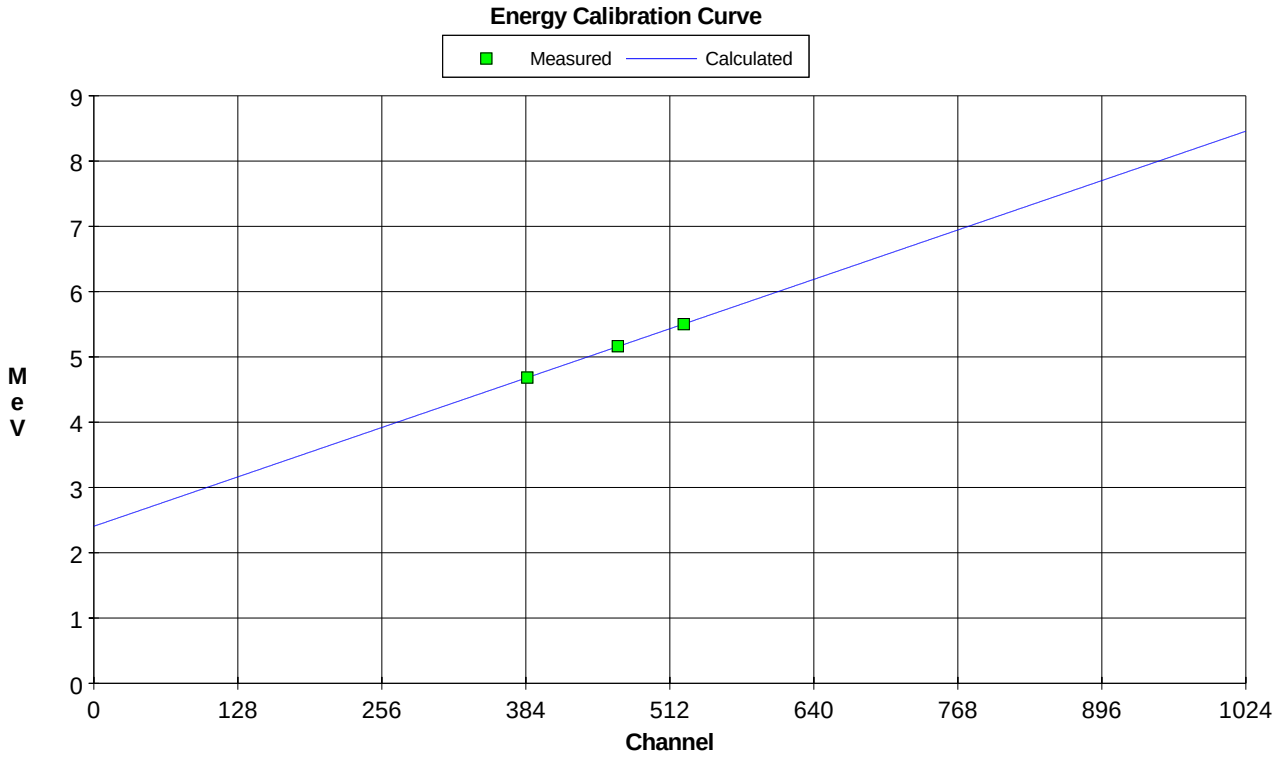
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

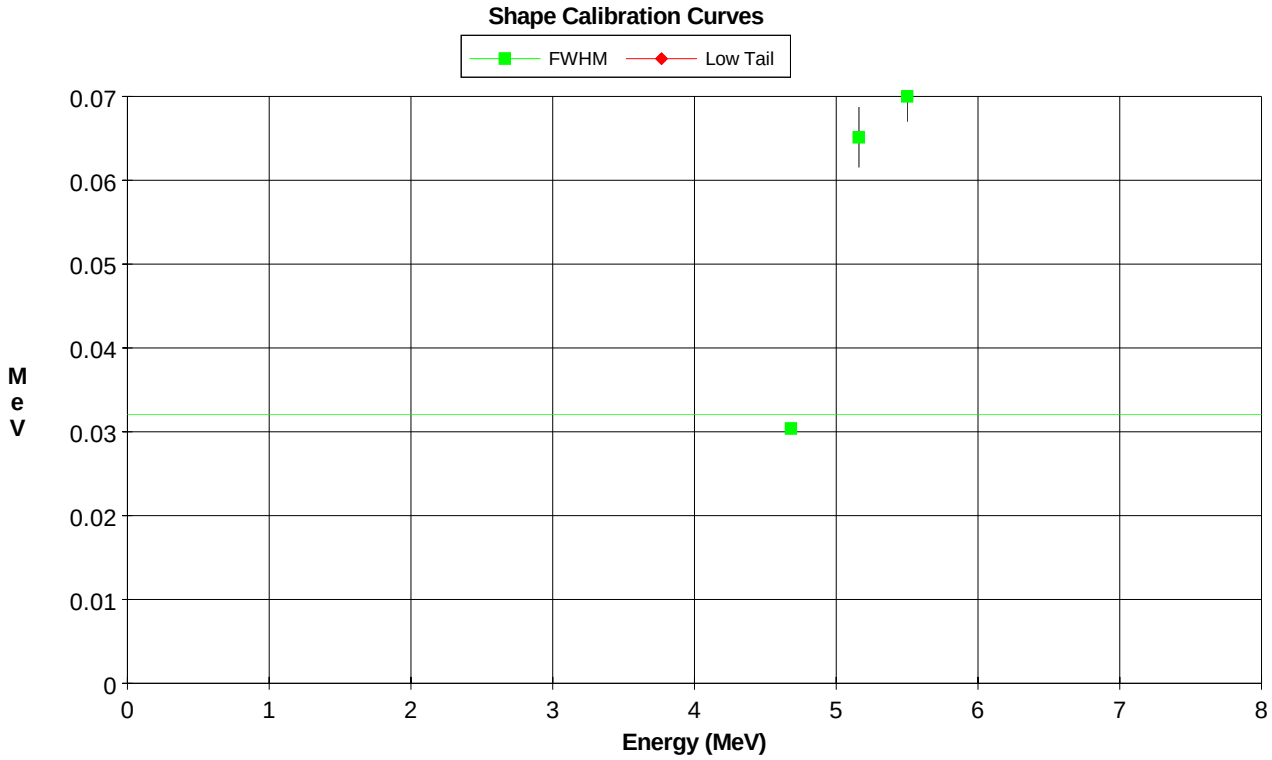
Errors quoted at 1.000 sigma

Detector A_4_6A





Datasource: A_4_6A
Energy = 2.403e+00 MeV +5.910e-03*Ch
FWHM = 3.205e-02 MeV



Datasource: A_4_6A
Energy = 2.403e+00 MeV +5.910e-03*Ch
FWHM = 3.205e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_4_6B
Sample Title: DET 44 SC 110124
Peak Analysis Performed on: 11/1/2024 12:55:32 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	396	377.77	4655.68	48.76	4.695E+03	68.52	0.000E+00
2	427-	477	462.10	5136.76	59.77	4.894E+03	69.96	0.000E+00
3	490-	541	521.65	5476.47	57.55	4.257E+03	65.25	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 44 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	8.9285E+02	1.3463E+01
PU-239	1.000	5160.00*	100.00	9.2790E+02	4.8301E+01
AM-241	1.000	5485.70*	99.00	8.1528E+02	1.4251E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 12:55:31 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

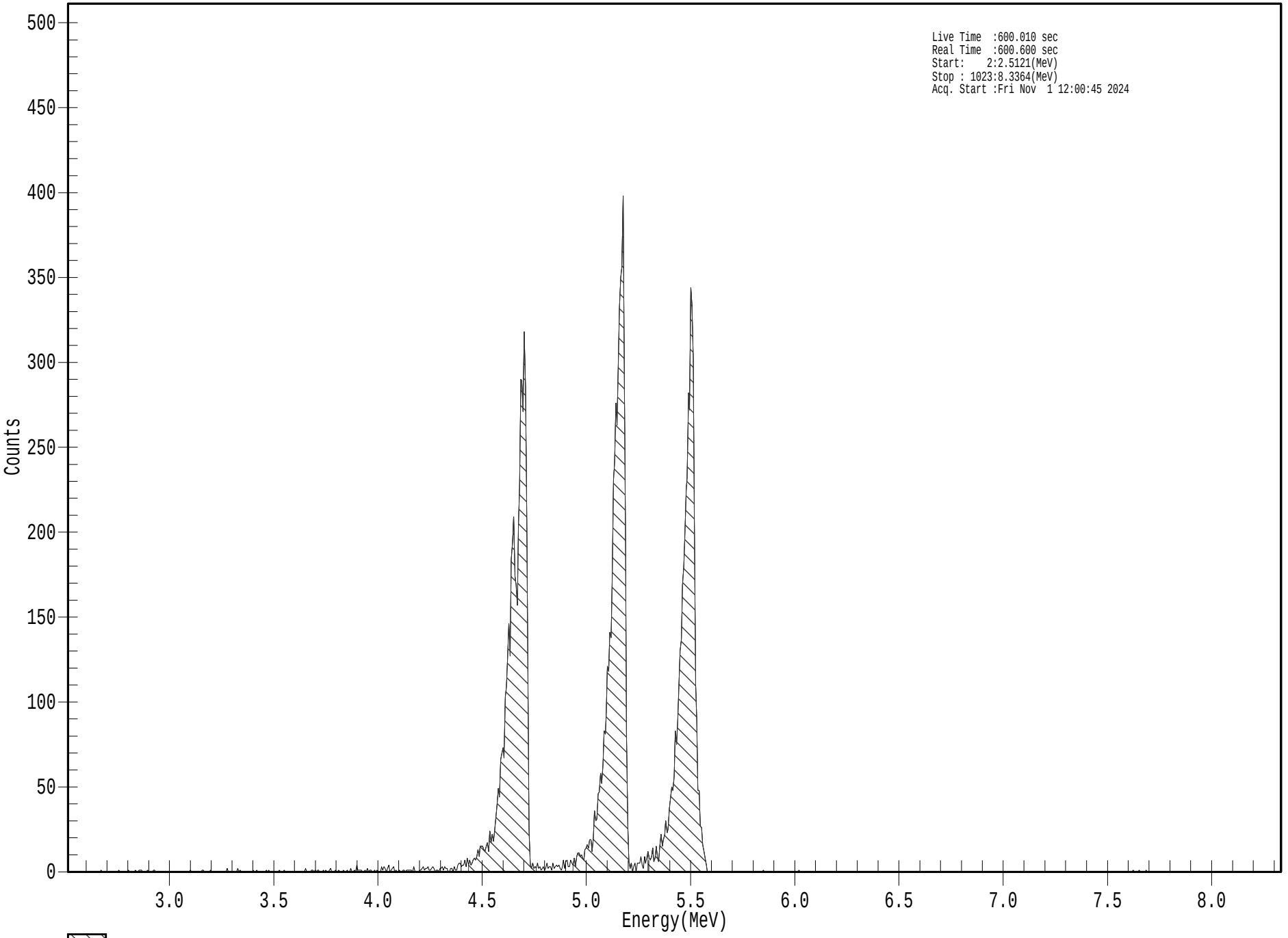
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

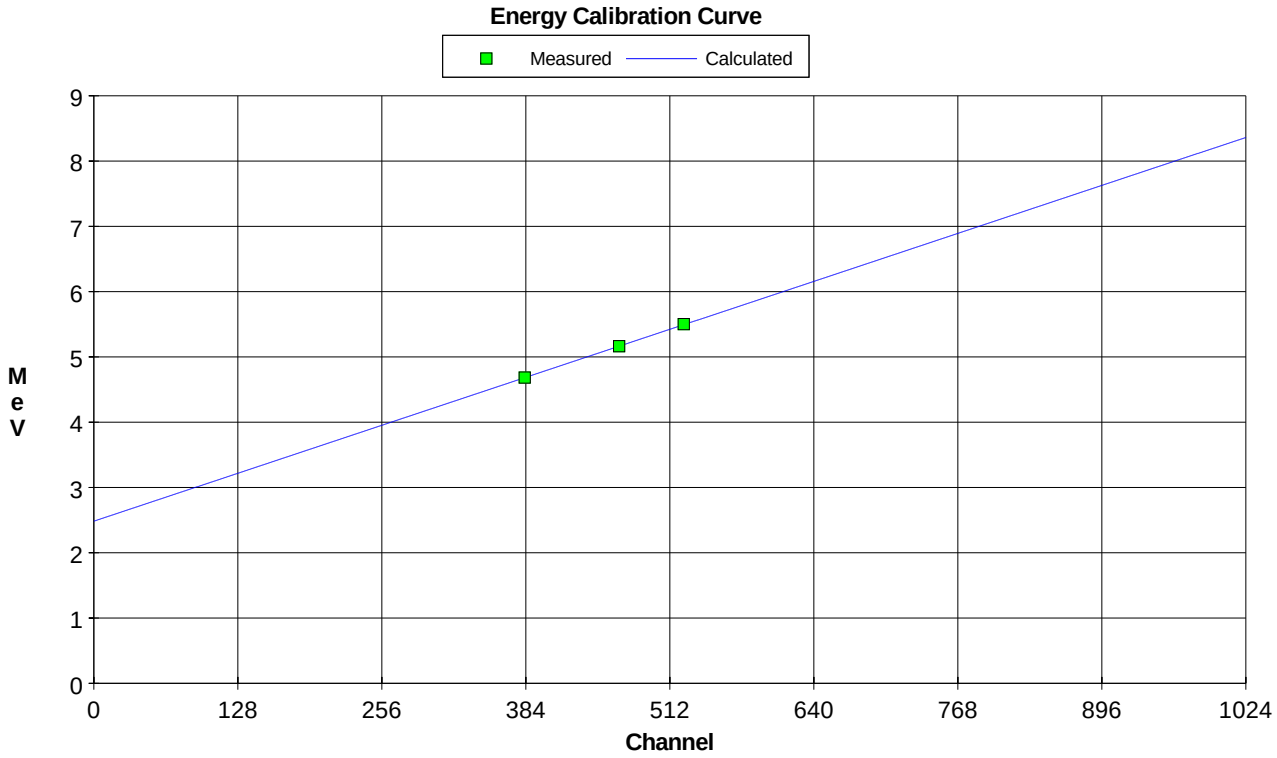
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

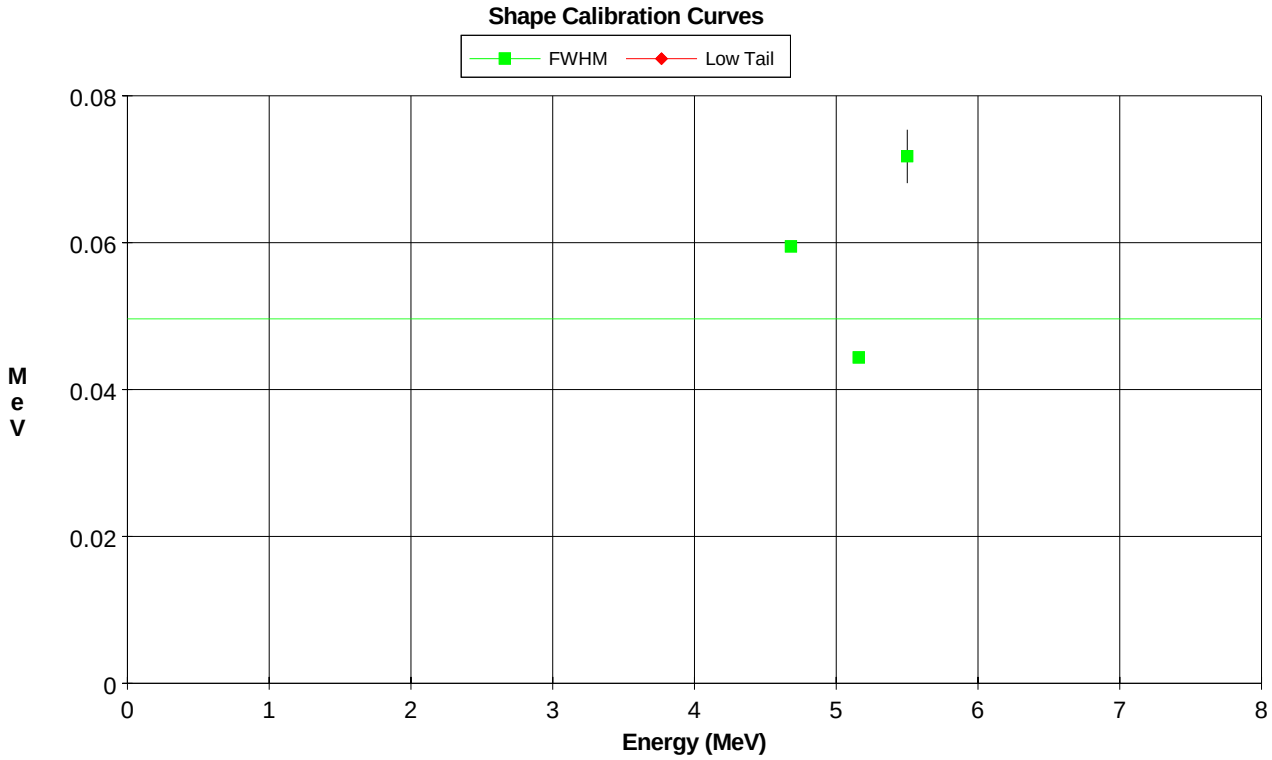
Errors quoted at 1.000 sigma

Detector A_4_6B





Datasource: A_4_6B
Energy = 2.481e+00 MeV +5.741e-03*Ch
FWHM = 4.959e-02 MeV



Datasource: A_4_6B
Energy = 2.481e+00 MeV +5.741e-03*Ch
FWHM = 4.959e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_4A
Sample Title: DET 51 SC 110124
Peak Analysis Performed on: 11/1/2024 3:01:56 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	333-	389	365.49	4623.90	88.56	5.462E+03	73.91	0.000E+00
2	419-	469	448.60	5107.46	65.56	5.178E+03	71.96	0.000E+00
3	481-	531	507.33	5449.14	58.58	4.789E+03	69.20	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 51 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.997	4687.60*	99.70	1.0723E+03	1.7212E+01
PU-239	0.998	5160.00*	100.00	1.0135E+03	5.3233E+01
AM-241	0.999	5485.70*	99.00	9.4686E+02	1.7449E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:01:56 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

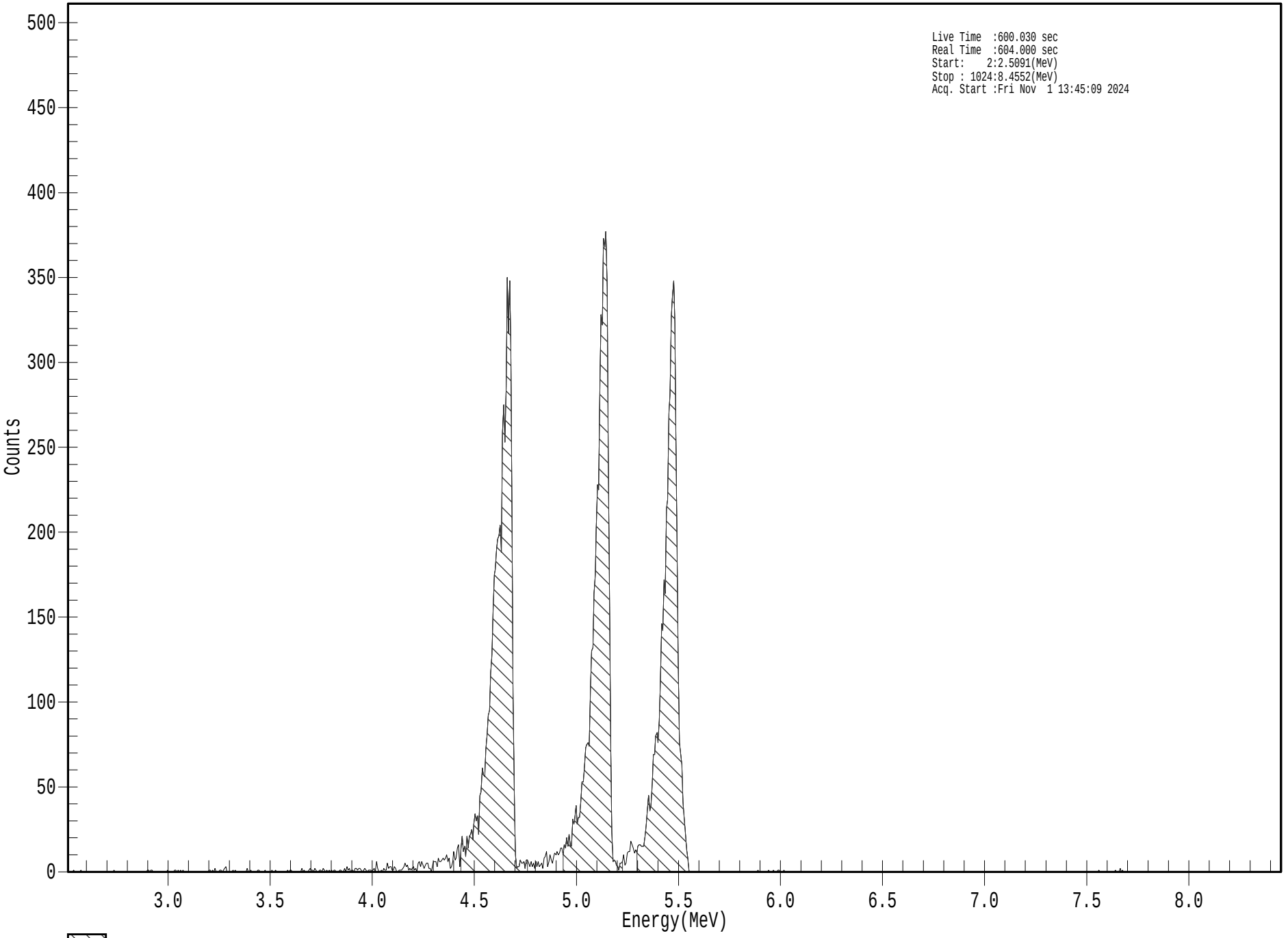
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

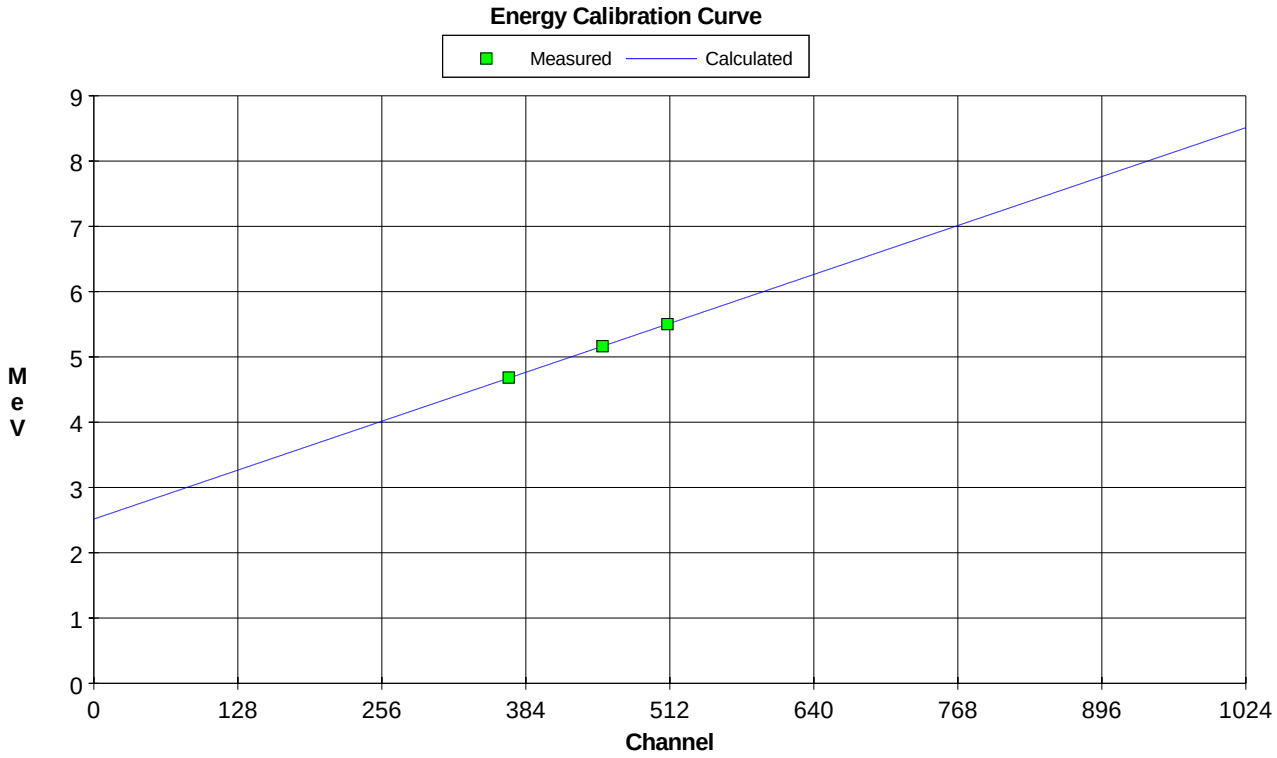
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

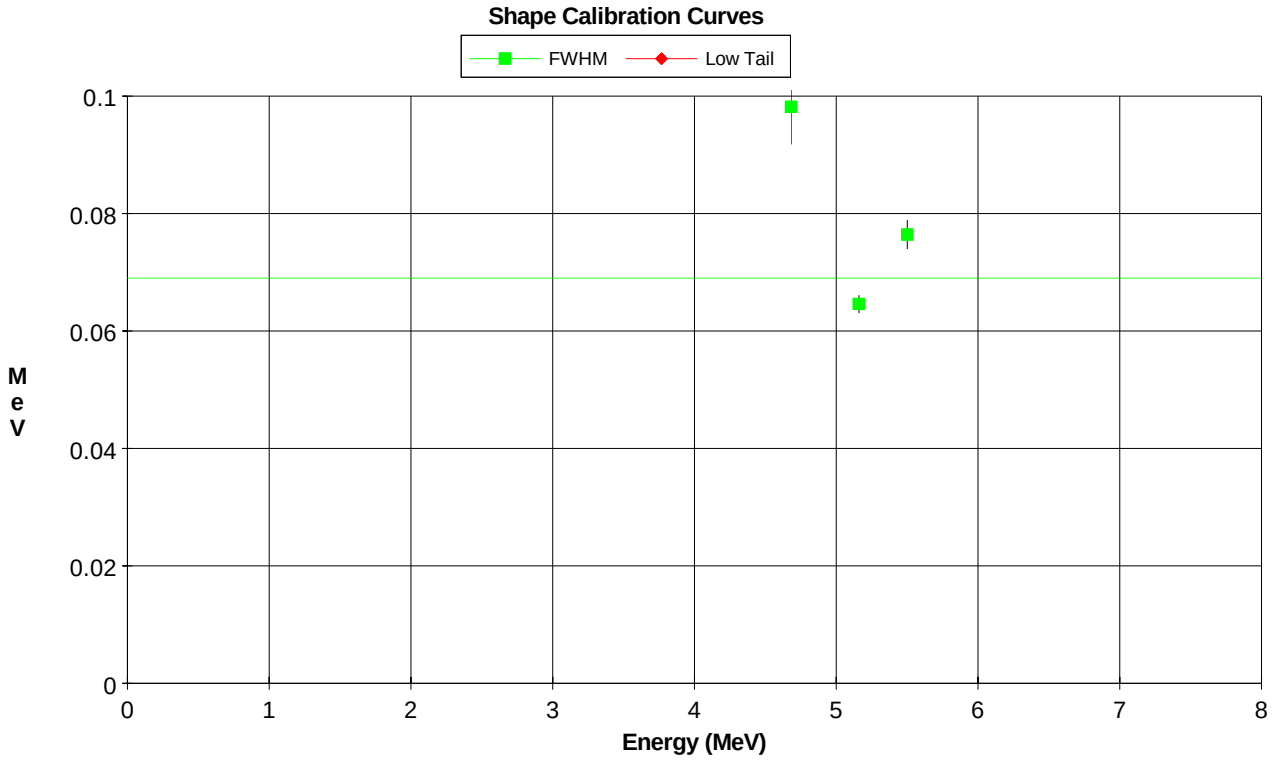
Errors quoted at 1.000 sigma

Detector A_1_4A





Datasource: A_1_4A
Energy = 2.514e+00 MeV +5.855e-03*Ch
FWHM = 6.898e-02 MeV



Datasource: A_1_4A
Energy = 2.514e+00 MeV +5.855e-03*Ch
FWHM = 6.898e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_4B
Sample Title: DET 52 SC 110124
Peak Analysis Performed on: 11/1/2024 3:19:48 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	344-	400	384.47	4667.13	74.07	5.174E+03	71.93	0.000E+00
2	431-	480	468.62	5159.43	63.36	5.238E+03	72.37	0.000E+00
3	492-	541	527.84	5505.95	63.17	4.761E+03	69.00	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 52 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.9802E+02	1.4382E+01
PU-239	1.000	5160.00*	100.00	1.0073E+03	5.2306E+01
AM-241	1.000	5485.70*	99.00	9.2485E+02	1.5494E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:19:48 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

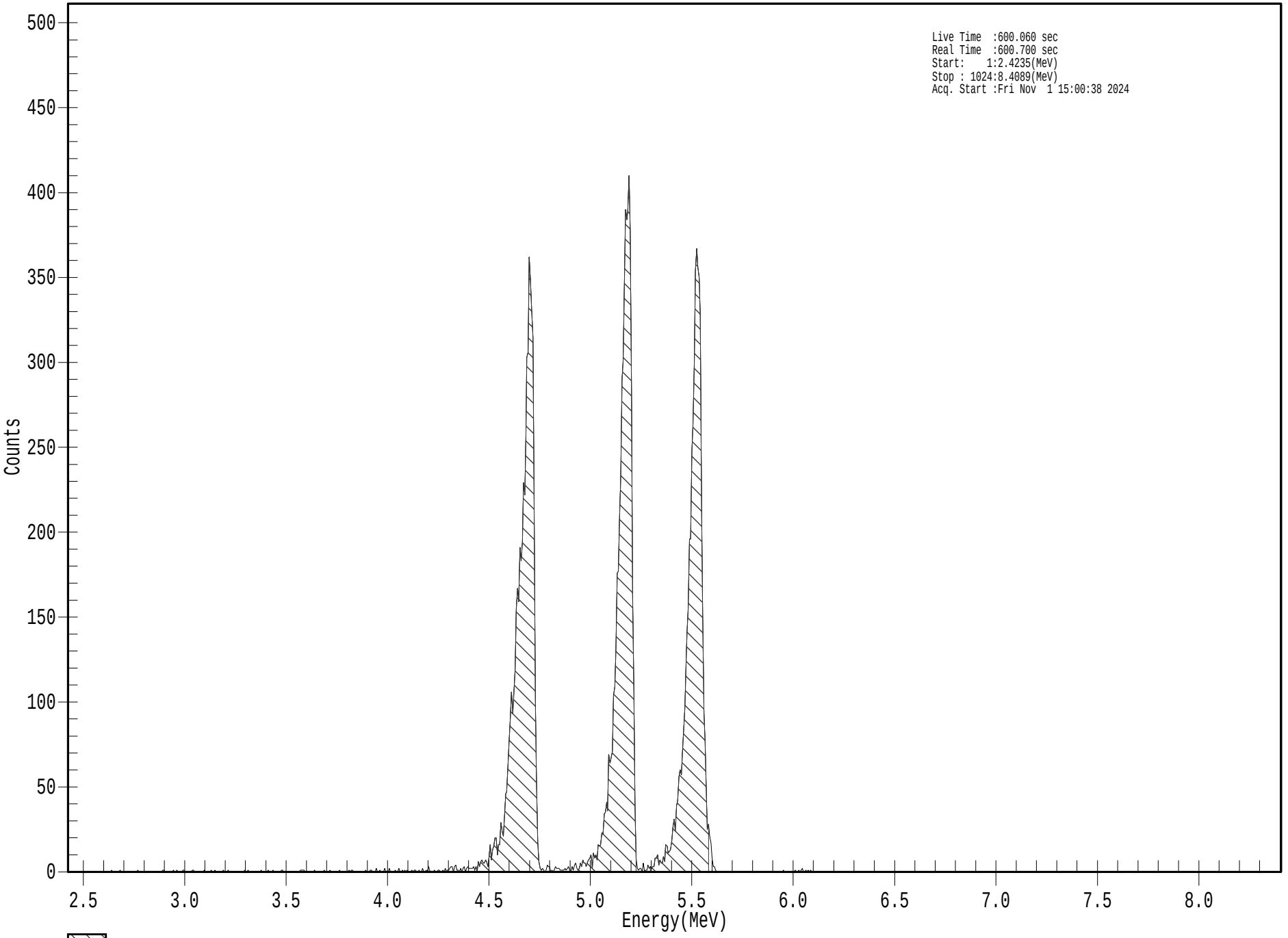
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

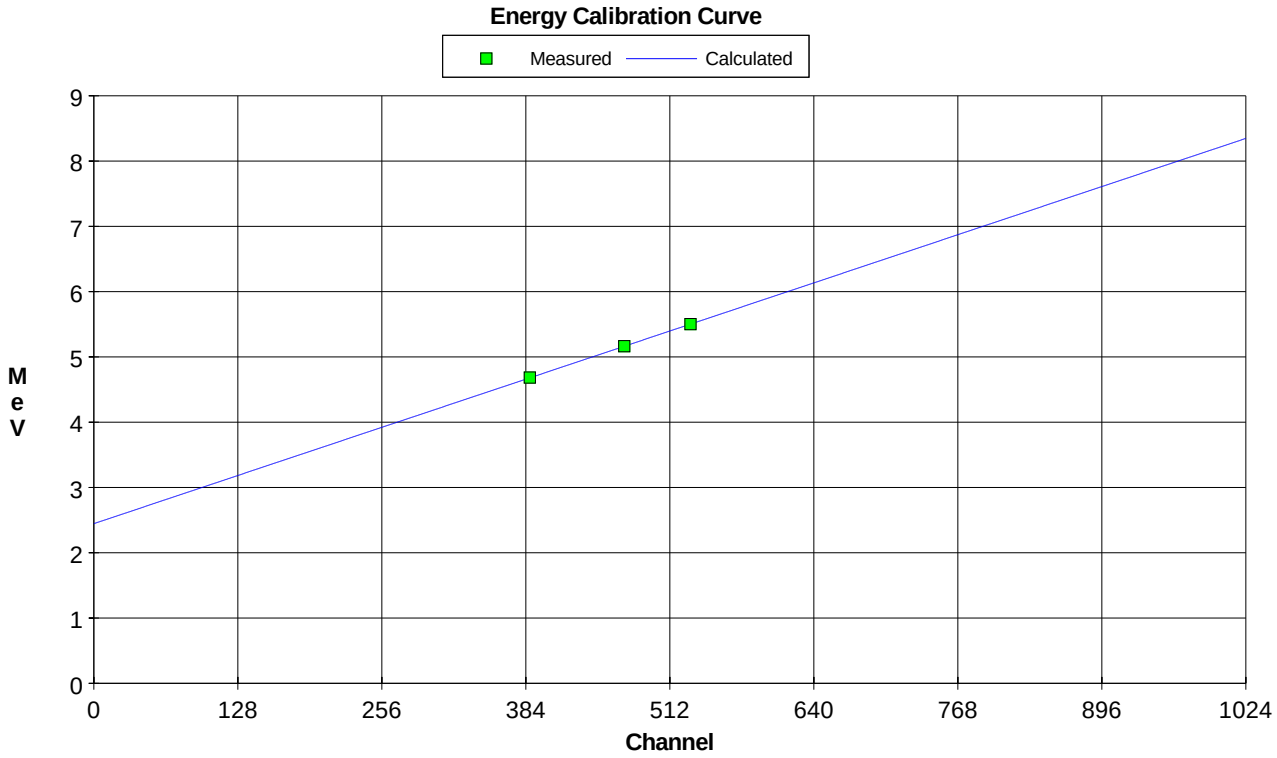
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

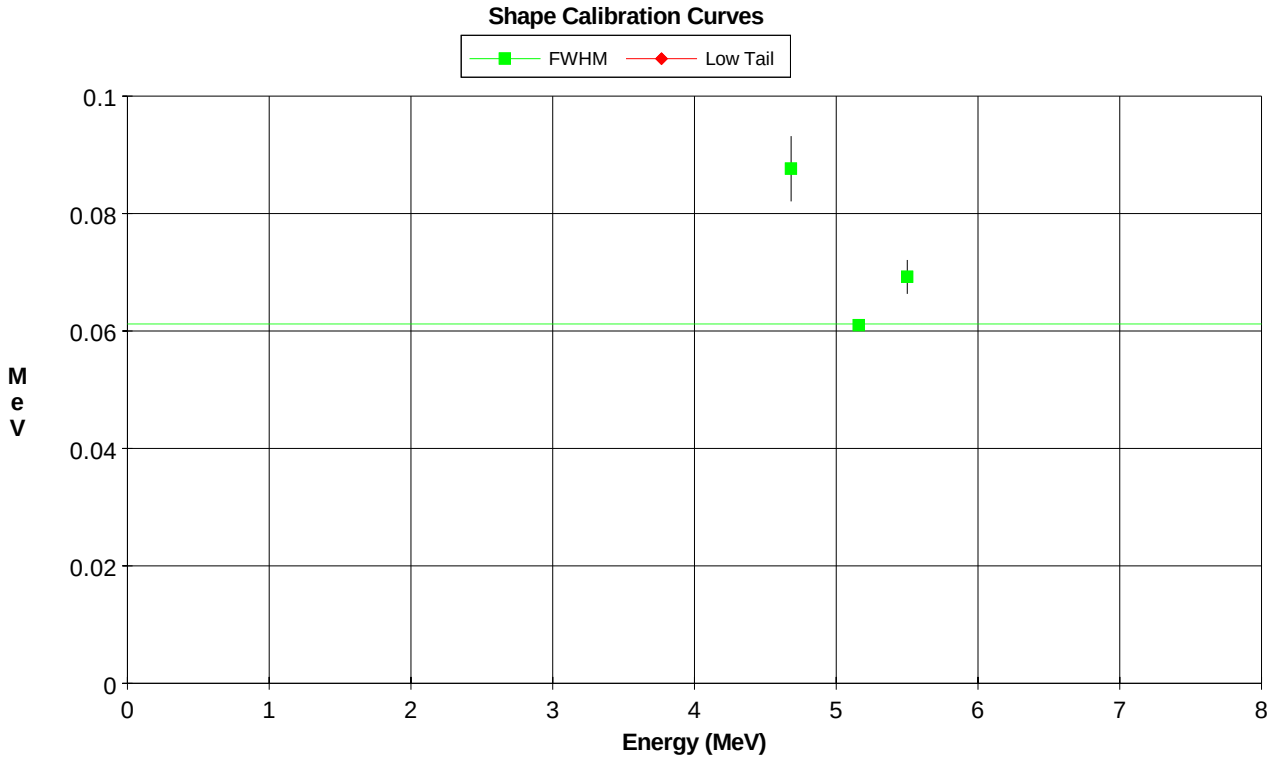
Errors quoted at 1.000 sigma

Detector A_1_4B





Datasource: A_1_4B
Energy = 2.444e+00 MeV +5.763e-03*Ch
FWHM = 6.115e-02 MeV



Datasource: A_1_4B
Energy = 2.444e+00 MeV +5.763e-03*Ch
FWHM = 6.115e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_5A
Sample Title: DET 53 SC 110124
Peak Analysis Performed on: 11/1/2024 3:02:12 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	334-	390	373.80	4666.06	61.42	4.812E+03	69.37	0.000E+00
2	420-	470	449.01	5104.01	60.72	4.912E+03	70.09	0.000E+00
3	482-	532	502.37	5414.71	52.99	4.278E+03	65.41	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 53 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.5362E+02	1.4718E+01
PU-239	0.998	5160.00*	100.00	9.7052E+02	5.0662E+01
AM-241	0.997	5485.70*	99.00	8.5379E+02	1.5283E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:02:12 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

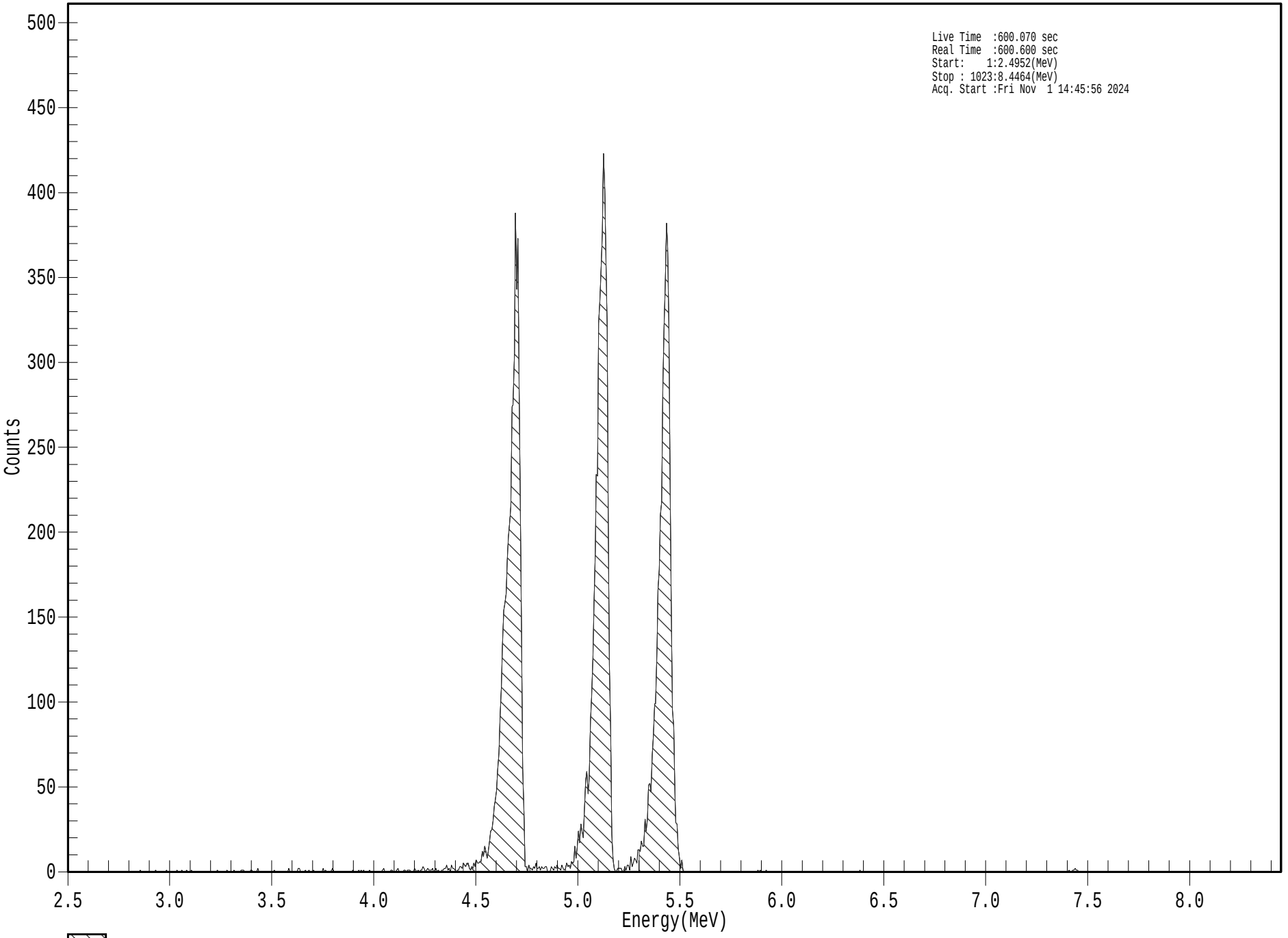
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

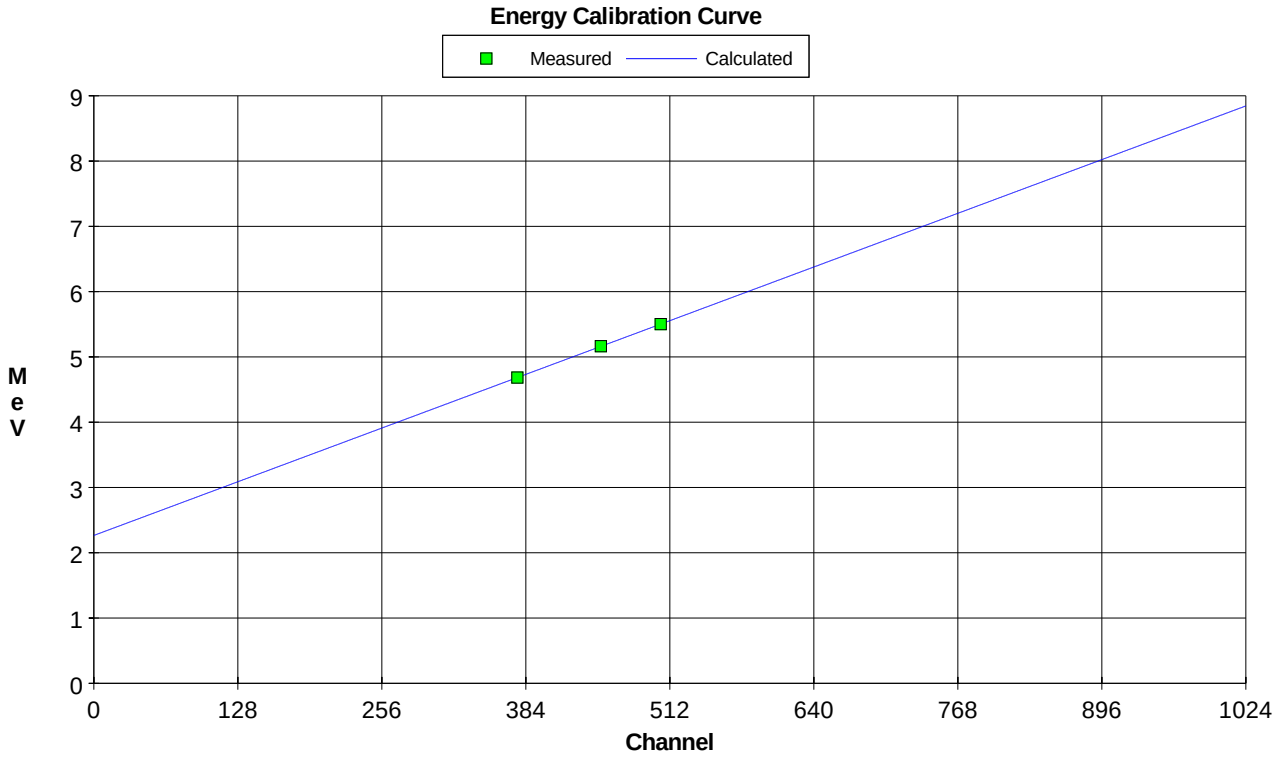
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

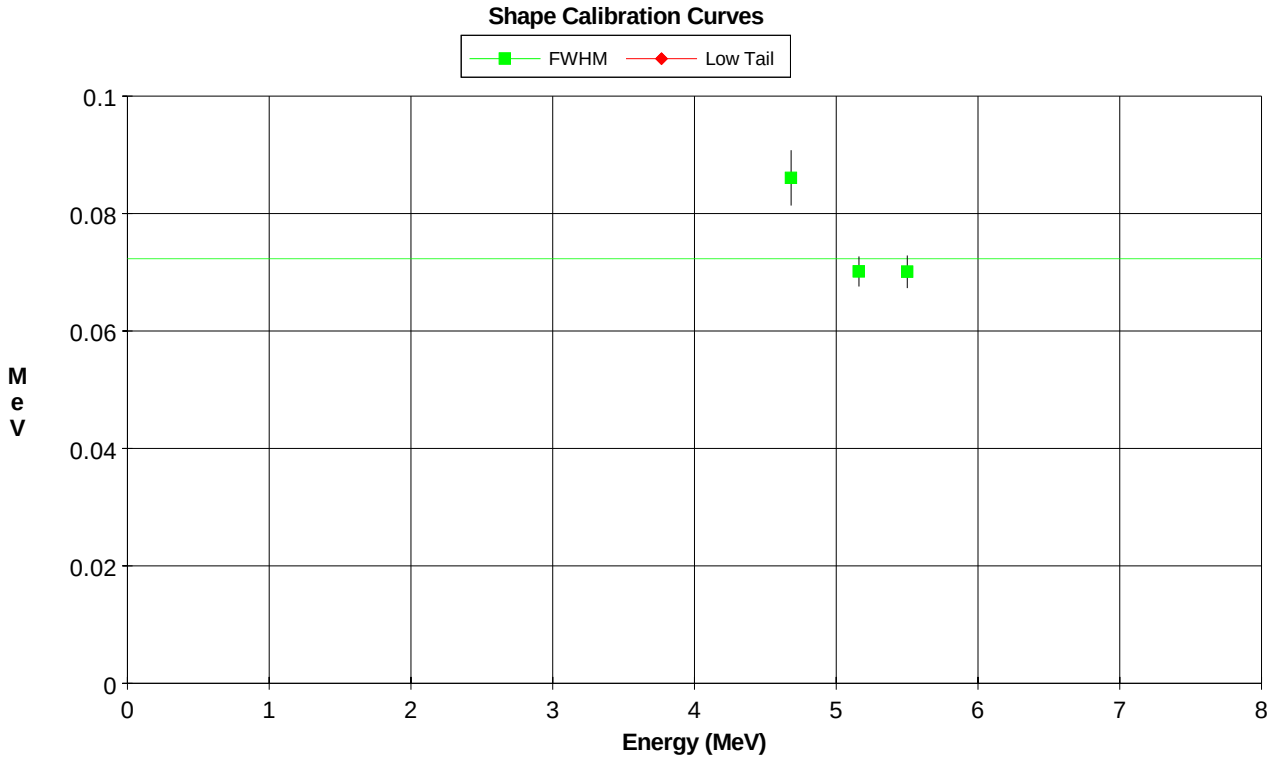
Errors quoted at 1.000 sigma

Detector A_1_5A





Datasource: A_1_5A
Energy = 2.263e+00 MeV +6.425e-03*Ch
FWHM = 7.226e-02 MeV



Datasource: A_1_5A
Energy = 2.263e+00 MeV +6.425e-03*Ch
FWHM = 7.226e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_5B
Sample Title: DET 54 SC 110124
Peak Analysis Performed on: 11/1/2024 3:02:35 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	336-	392	369.05	4625.87	58.19	5.998E+03	77.45	0.000E+00
2	423-	472	452.78	5113.00	64.96	5.817E+03	76.27	0.000E+00
3	484-	534	511.82	5456.53	53.78	5.329E+03	73.00	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 54 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.998	4687.60*	99.70	1.0203E+03	1.3731E+01
PU-239	0.999	5160.00*	100.00	9.8653E+02	5.1045E+01
AM-241	0.999	5485.70*	99.00	9.1290E+02	1.4671E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:02:35 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_5B
Sample Title: DET 54 SC 110124
Peak Analysis Performed on: 11/1/2024 3:02:35 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	336-	392	369.05	4625.87	58.19	5.998E+03	77.45	0.000E+00
2	423-	472	452.78	5113.00	64.96	5.817E+03	76.27	0.000E+00
3	484-	534	511.82	5456.53	53.78	5.329E+03	73.00	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 54 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.998	4687.60*	99.70	1.0203E+03	1.3731E+01
PU-239	0.999	5160.00*	100.00	9.8653E+02	5.1045E+01
AM-241	0.999	5485.70*	99.00	9.1290E+02	1.4671E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:02:35 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

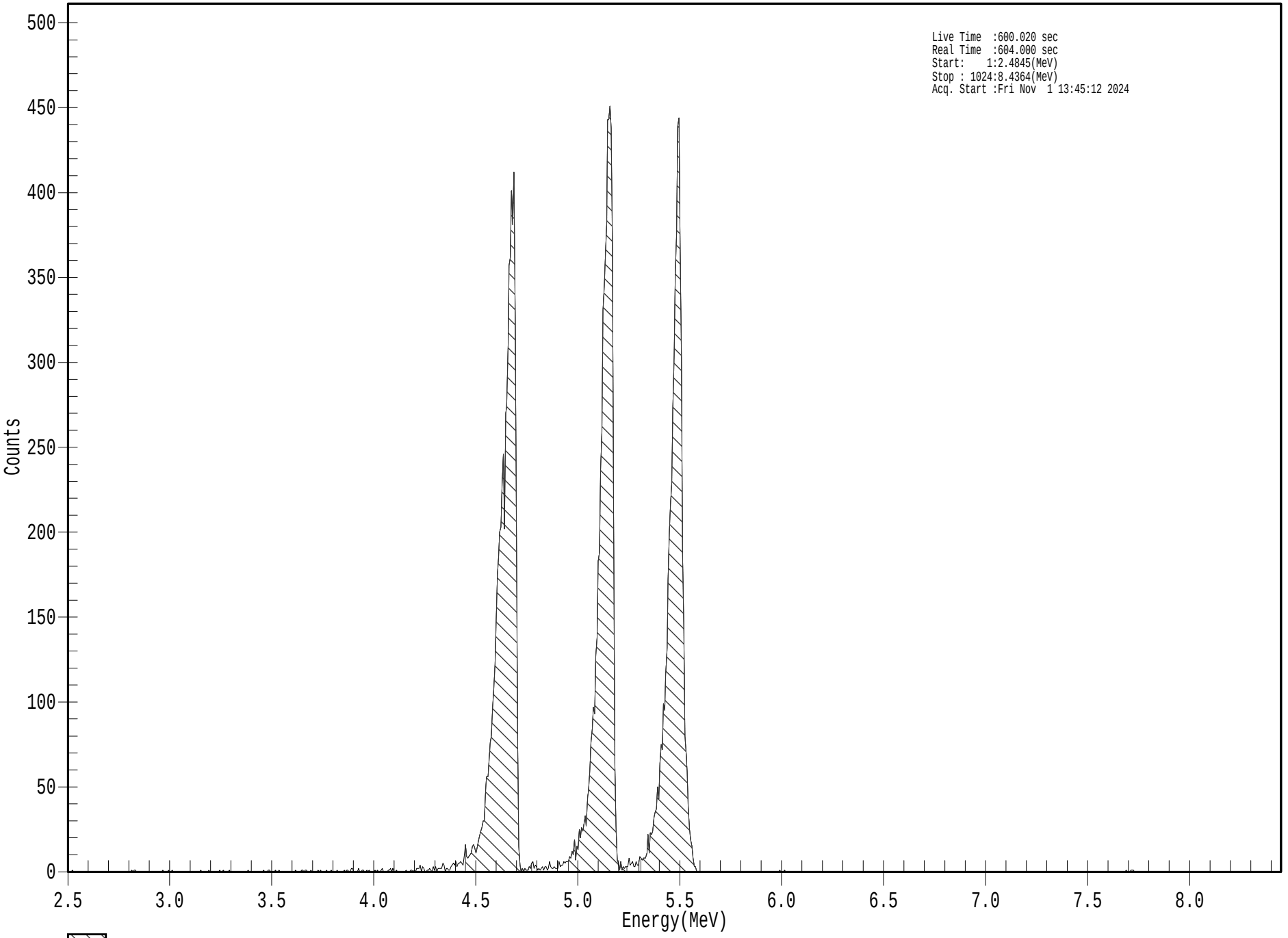
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

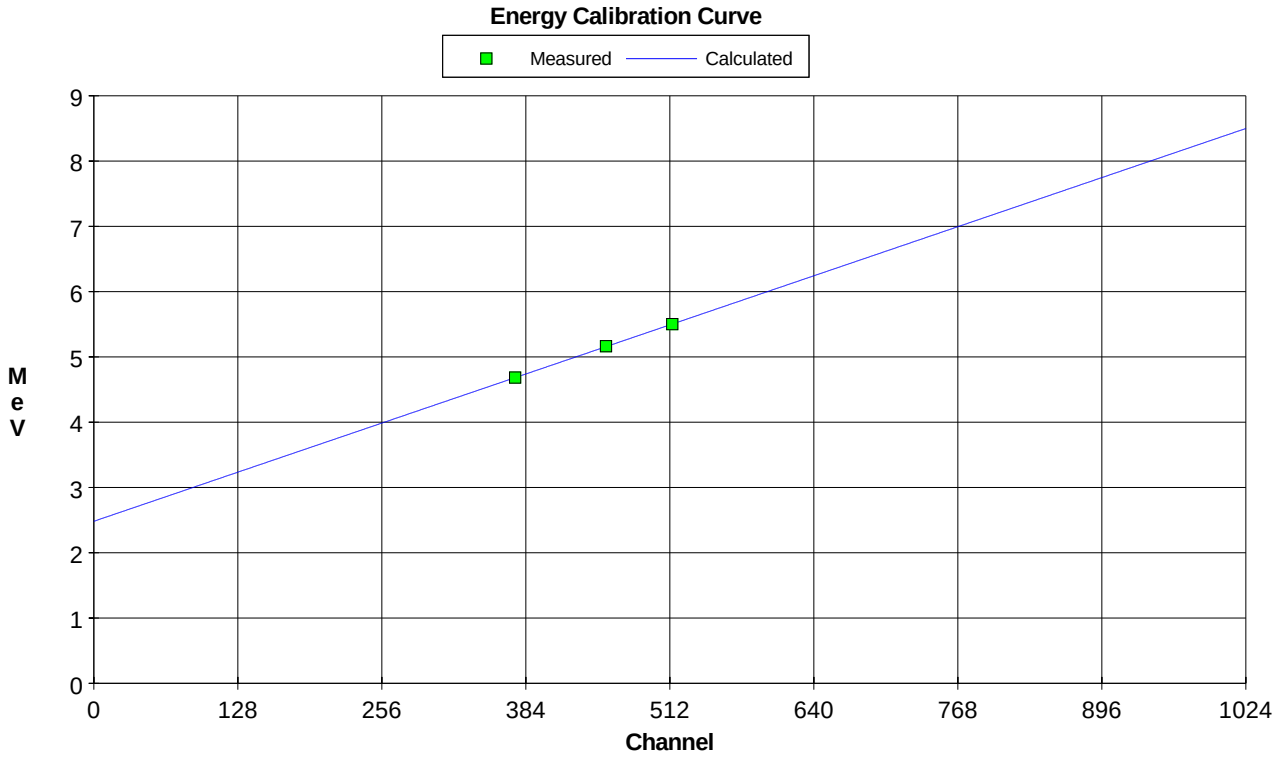
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

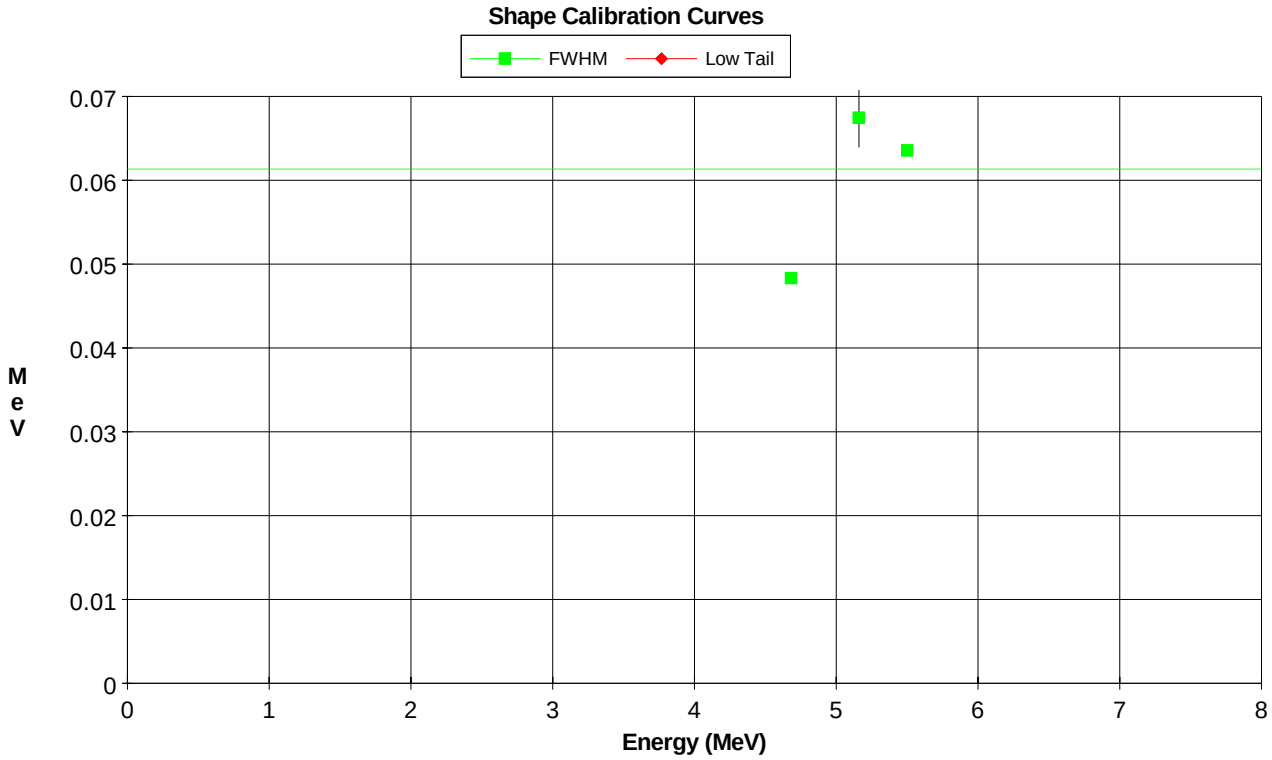
Errors quoted at 1.000 sigma

Detector A_1_5B





Datasource: A_1_5B
Energy = 2.480e+00 MeV +5.876e-03*Ch
FWHM = 6.133e-02 MeV



Datasource: A_1_5B
Energy = 2.480e+00 MeV +5.876e-03*Ch
FWHM = 6.133e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_6A
Sample Title: DET 55 SC 110124
Peak Analysis Performed on: 11/1/2024 3:02:50 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	338-	394	375.45	4652.22	68.22	5.819E+03	76.28	0.000E+00
2	424-	474	459.44	5141.08	55.11	5.715E+03	75.60	0.000E+00
3	486-	536	518.74	5486.28	61.84	4.975E+03	70.53	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 55 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.1556E+03	1.6102E+01
PU-239	1.000	5160.00*	100.00	1.1315E+03	5.8668E+01
AM-241	1.000	5485.70*	99.00	9.9497E+02	1.6636E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:02:49 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

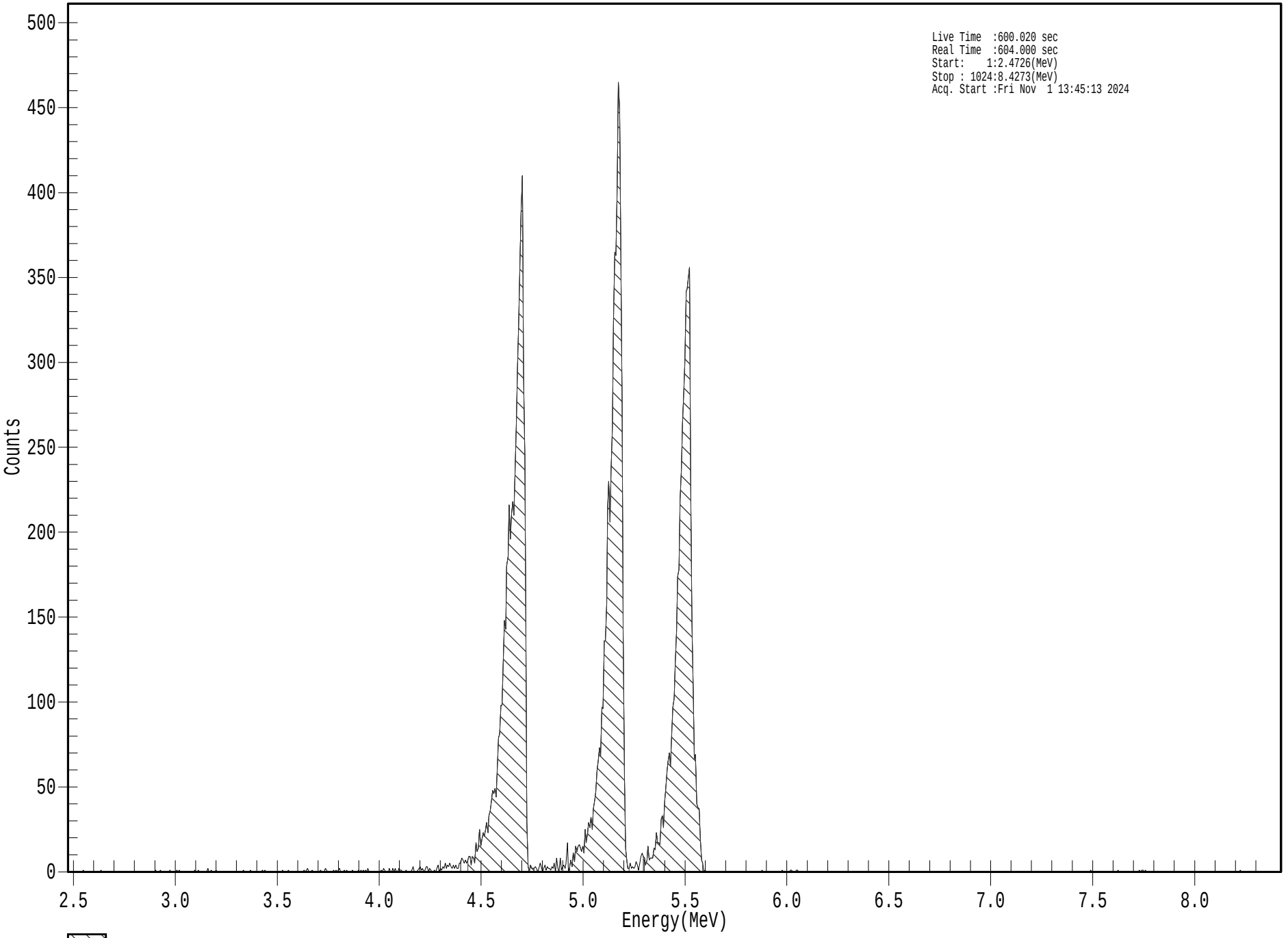
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

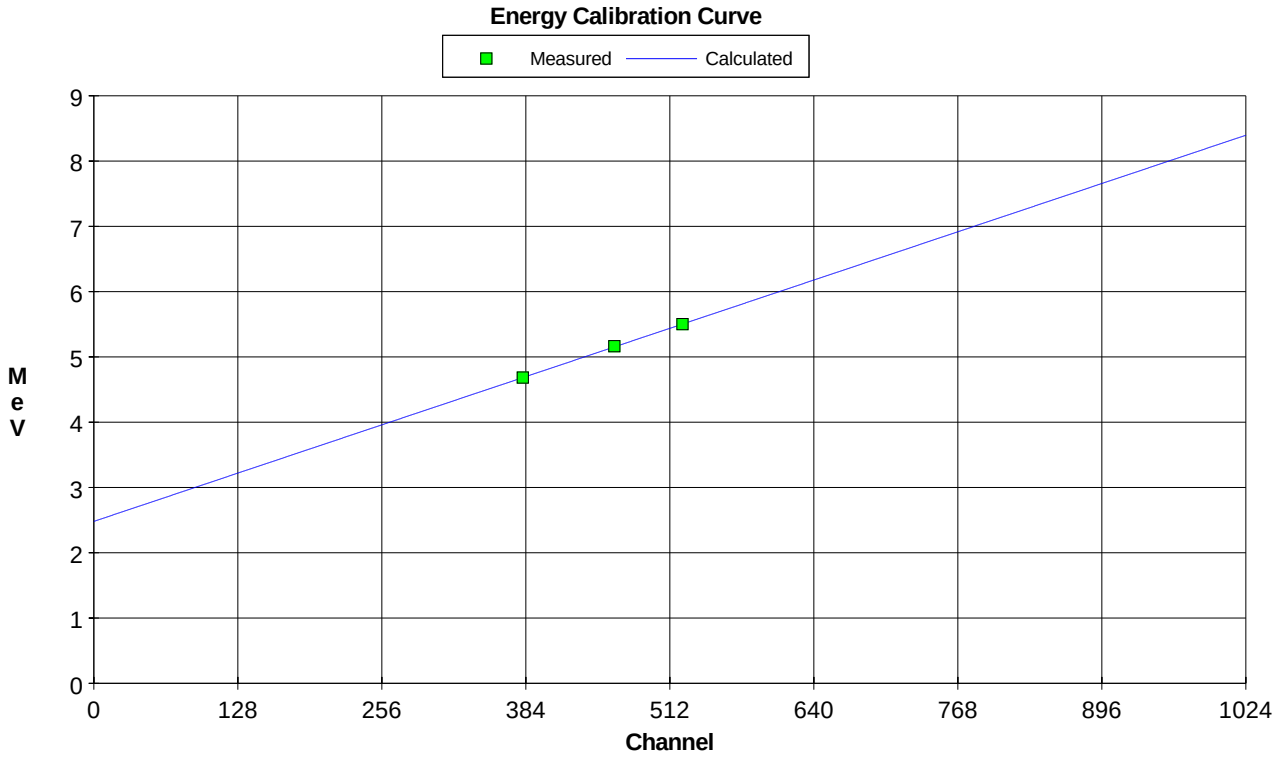
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

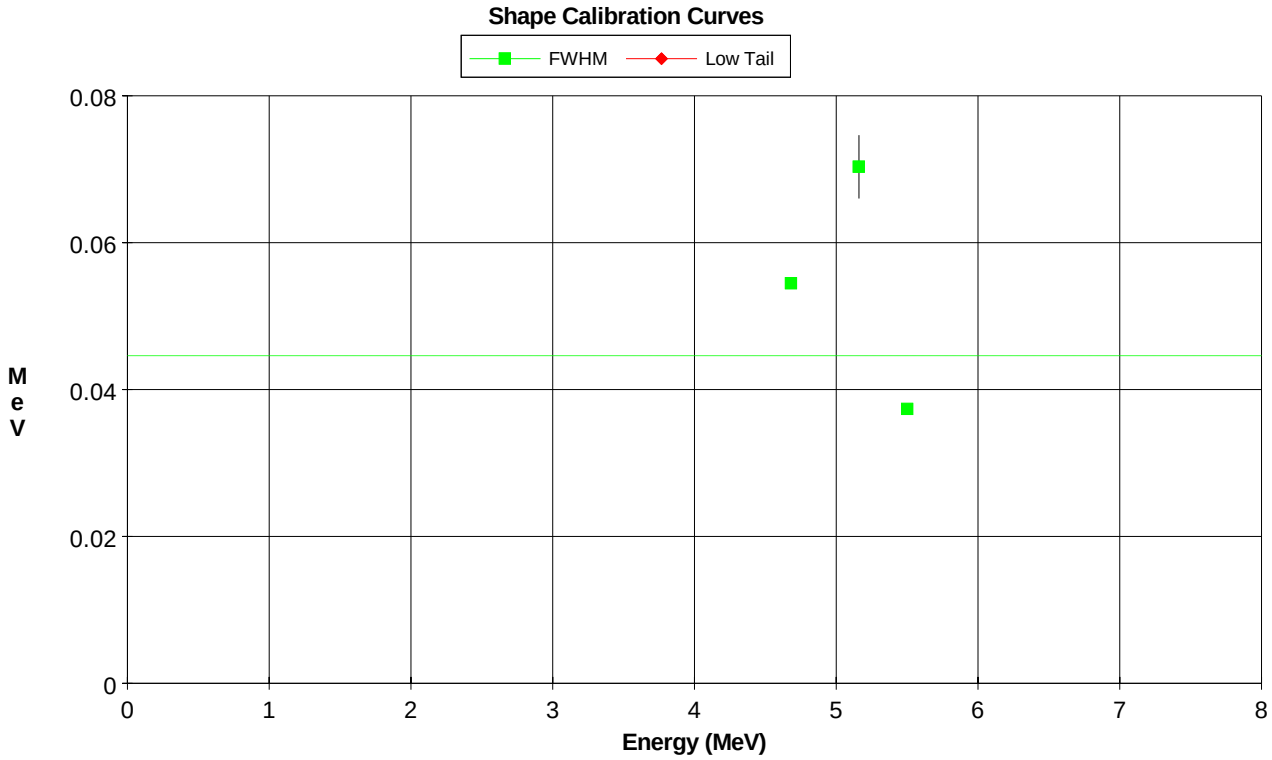
Errors quoted at 1.000 sigma

Detector A_1_6A





Datasource: A_1_6A
Energy = 2.478e+00 MeV +5.776e-03*Ch
FWHM = 4.460e-02 MeV



Datasource: A_1_6A
Energy = 2.478e+00 MeV +5.776e-03*Ch
FWHM = 4.460e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_1_6B
Sample Title: DET 56 SC 110124
Peak Analysis Performed on: 11/1/2024 3:03:02 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	333-	389	375.35	4681.26	73.16	5.196E+03	72.08	0.000E+00
2	419-	469	458.17	5163.12	54.62	5.302E+03	72.81	0.000E+00
3	481-	531	516.65	5503.37	59.59	4.881E+03	69.86	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 56 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	9.5558E+02	1.3576E+01
PU-239	1.000	5160.00*	100.00	9.7215E+02	5.0411E+01
AM-241	1.000	5485.70*	99.00	9.0399E+02	1.4868E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 3:03:02 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

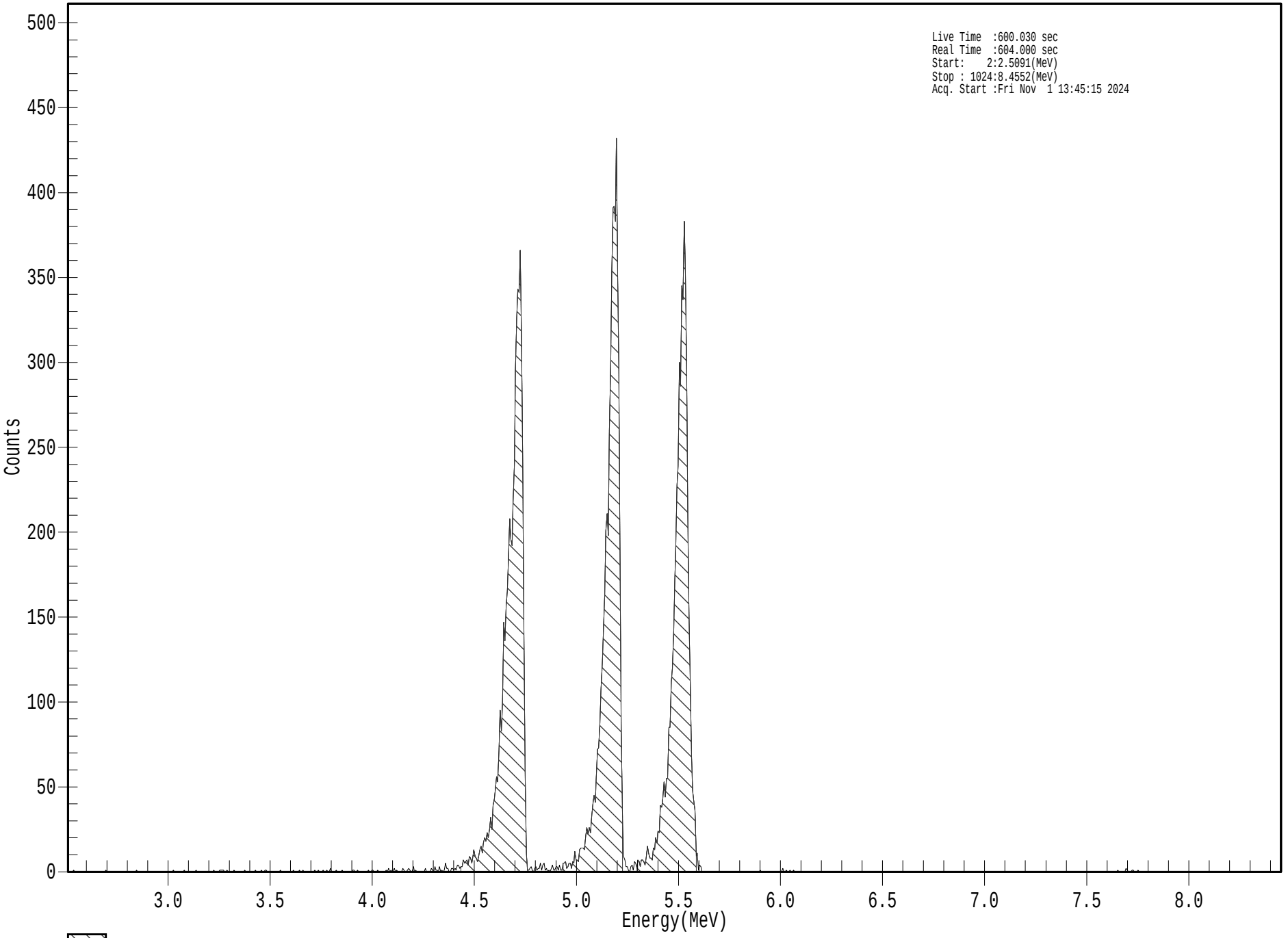
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

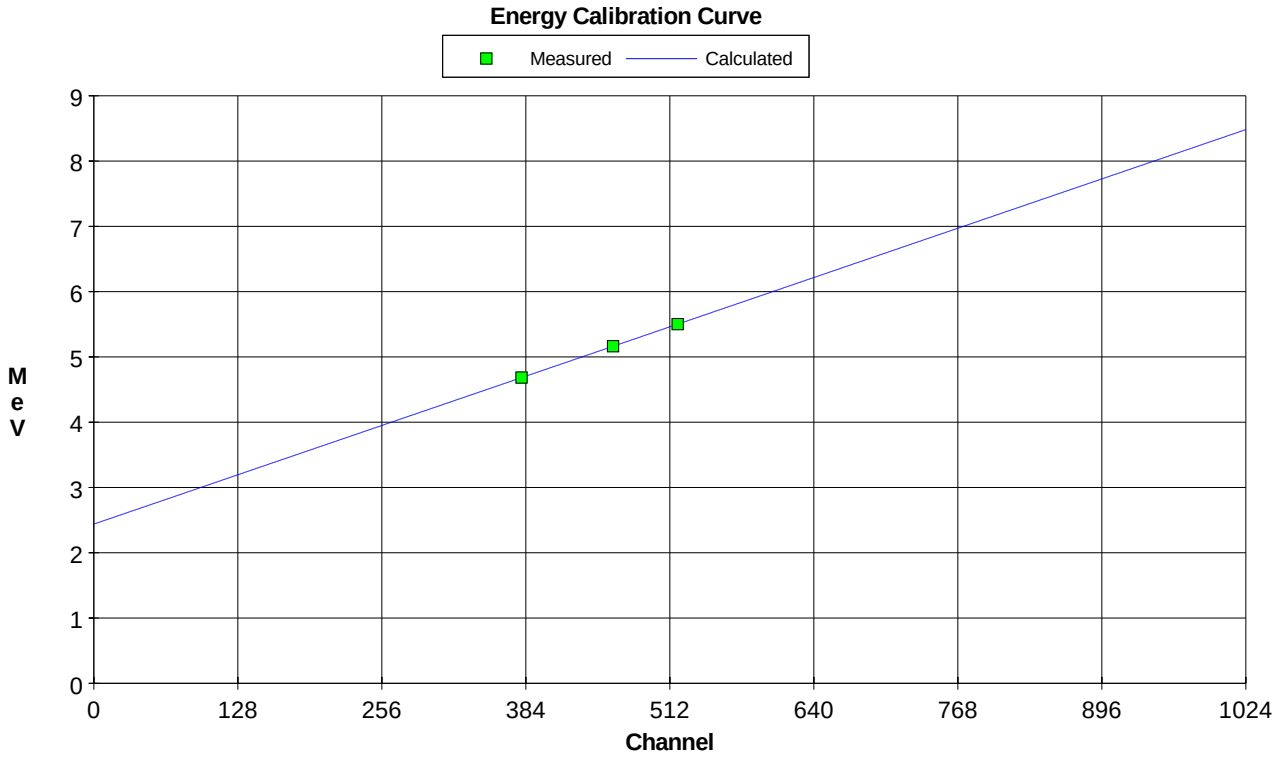
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

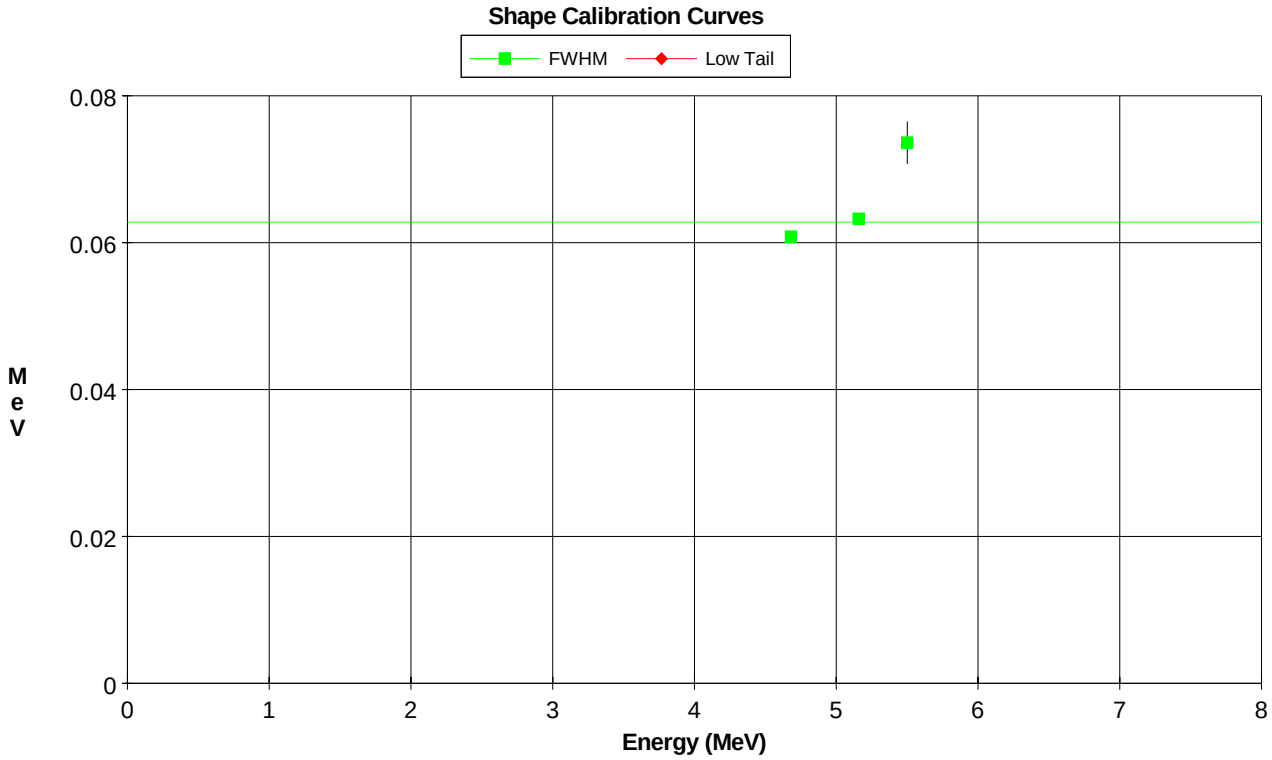
Errors quoted at 1.000 sigma

Detector A_1_6B





Datasource: A_1_6B
Energy = 2.437e+00 MeV +5.901e-03*Ch
FWHM = 6.277e-02 MeV



Datasource: A_1_6B
Energy = 2.437e+00 MeV +5.901e-03*Ch
FWHM = 6.277e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_1A
Sample Title: DET 57 SC 110124
Peak Analysis Performed on: 11/1/2024 1:45:25 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	330-	389	371.67	4664.70	63.99	5.904E+03	76.84	0.000E+00
2	420-	471	455.25	5134.55	60.04	6.066E+03	77.88	0.000E+00
3	484-	535	514.46	5467.40	58.32	5.373E+03	73.30	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 57 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.0056E+03	1.5135E+01
PU-239	1.000	5160.00*	100.00	1.0301E+03	5.3654E+01
AM-241	1.000	5485.70*	99.00	9.2164E+02	1.5950E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 1:45:24 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

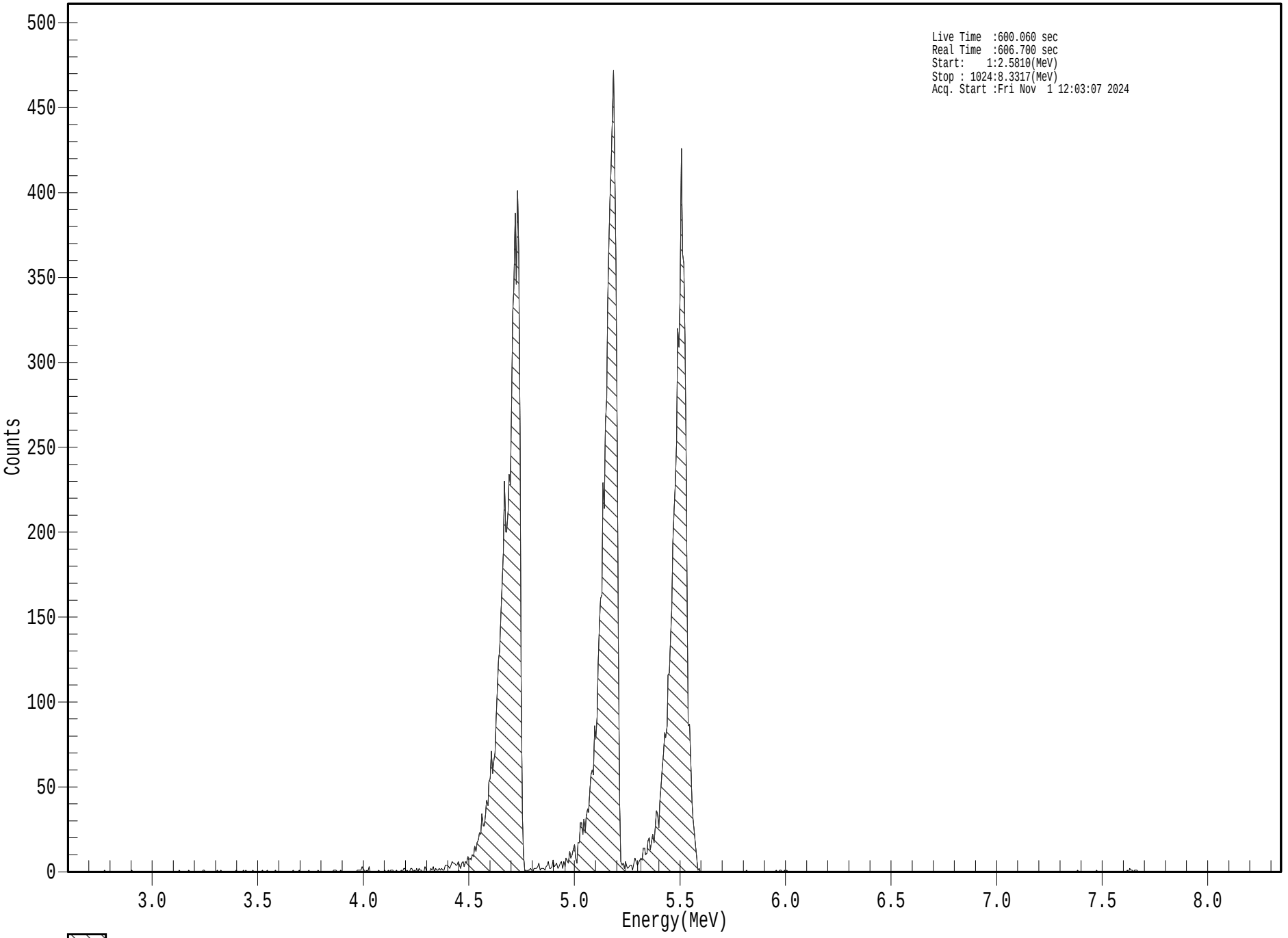
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

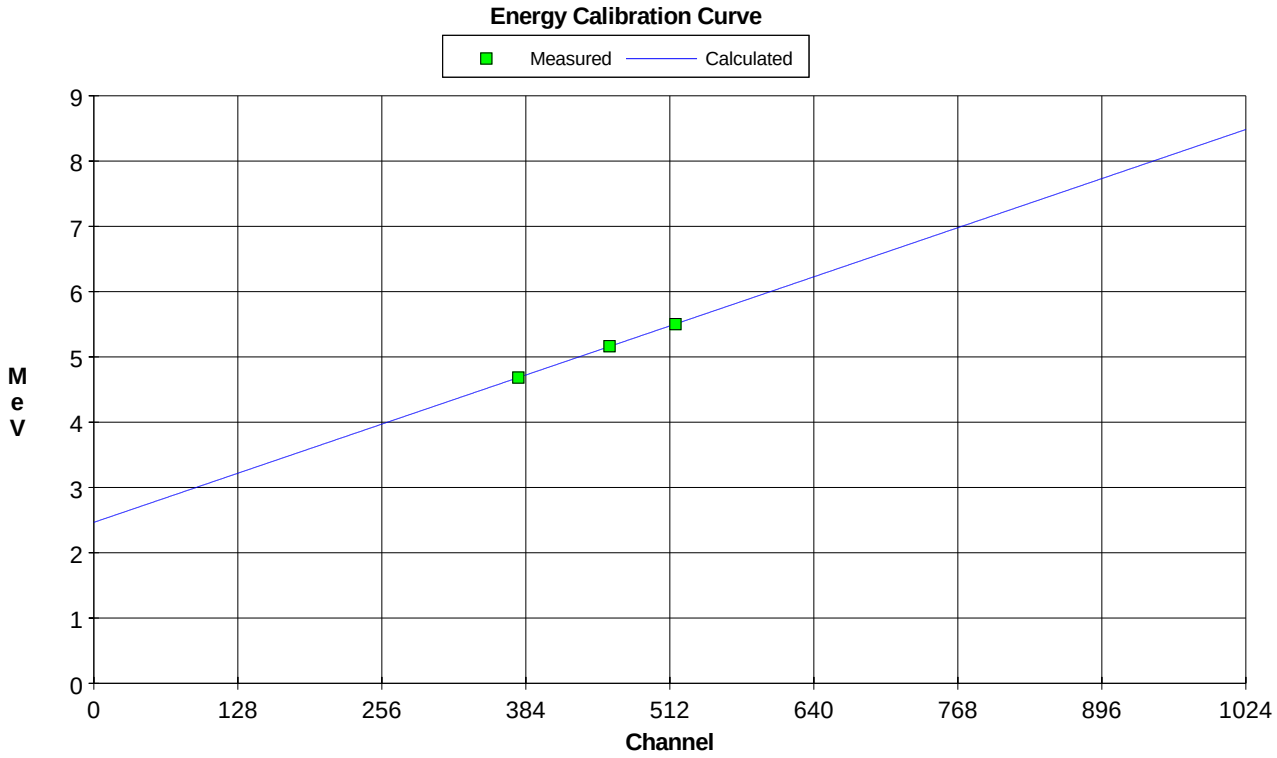
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

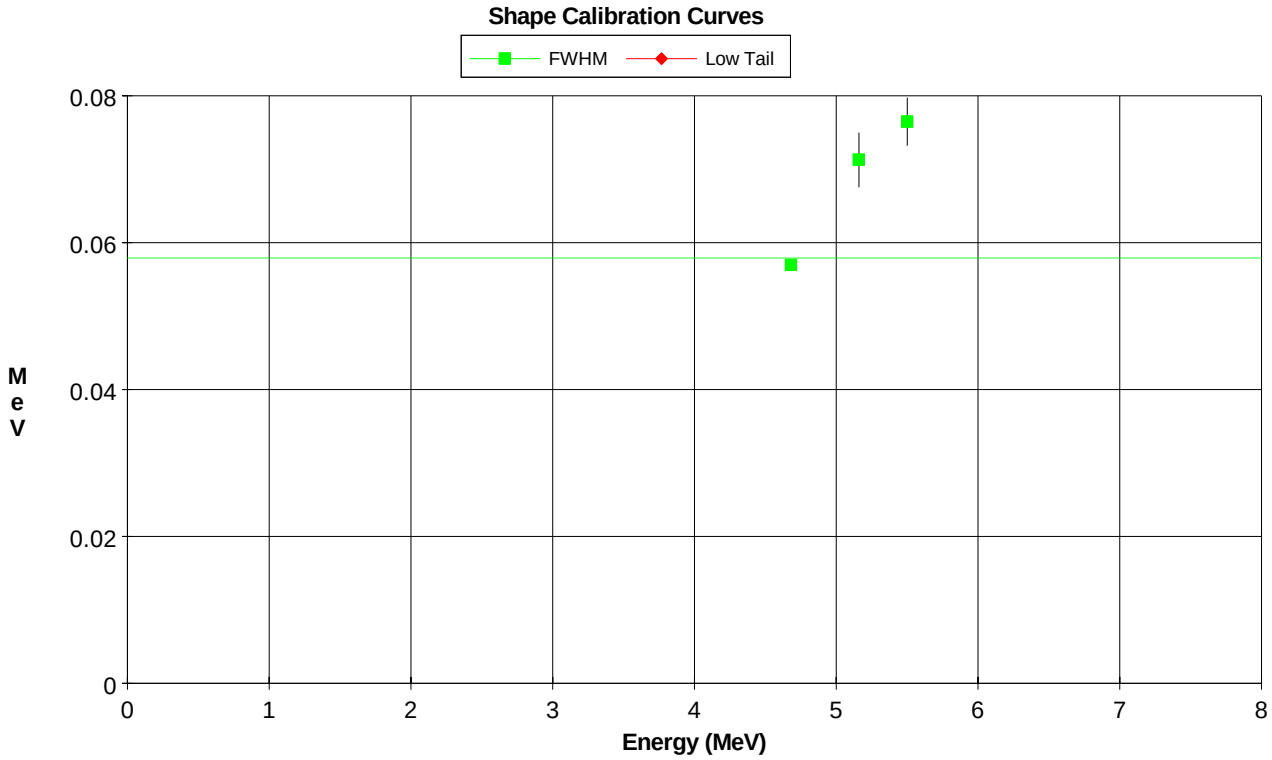
Errors quoted at 1.000 sigma

Detector A_2_1A





Datasource: A_2_1A
Energy = 2.463e+00 MeV +5.877e-03*Ch
FWHM = 5.788e-02 MeV



Datasource: A_2_1A
Energy = 2.463e+00 MeV +5.877e-03*Ch
FWHM = 5.788e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_1B
Sample Title: DET 58 SC 110124
Peak Analysis Performed on: 11/1/2024 1:45:42 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	333-	391	372.00	4654.41	85.84	6.754E+03	82.18	0.000E+00
2	422-	473	456.36	5132.61	64.43	6.430E+03	80.19	0.000E+00
3	485-	536	515.67	5468.78	69.57	5.912E+03	76.89	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 58 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.0324E+03	1.3427E+01
PU-239	1.000	5160.00*	100.00	9.7997E+02	5.0614E+01
AM-241	1.000	5485.70*	99.00	9.1013E+02	1.4288E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 1:45:42 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

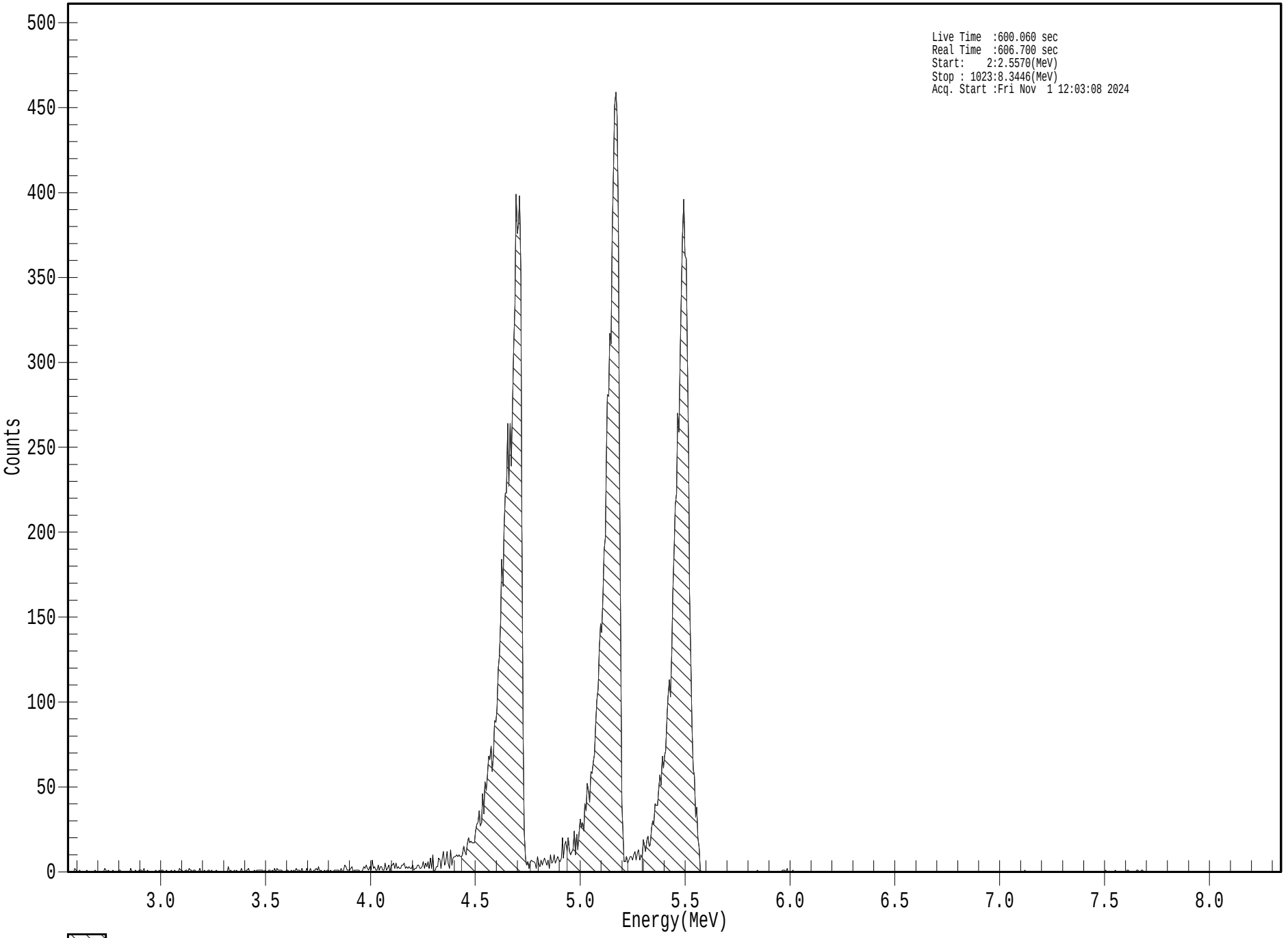
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

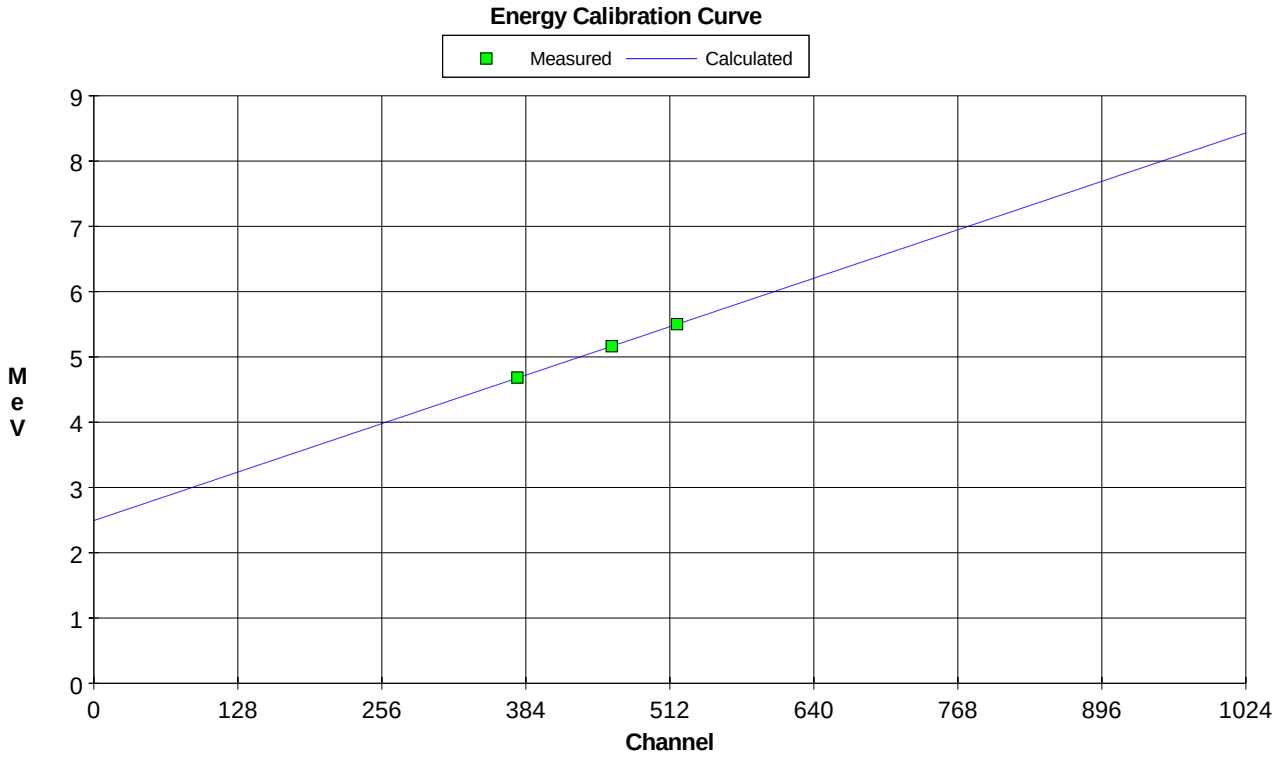
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

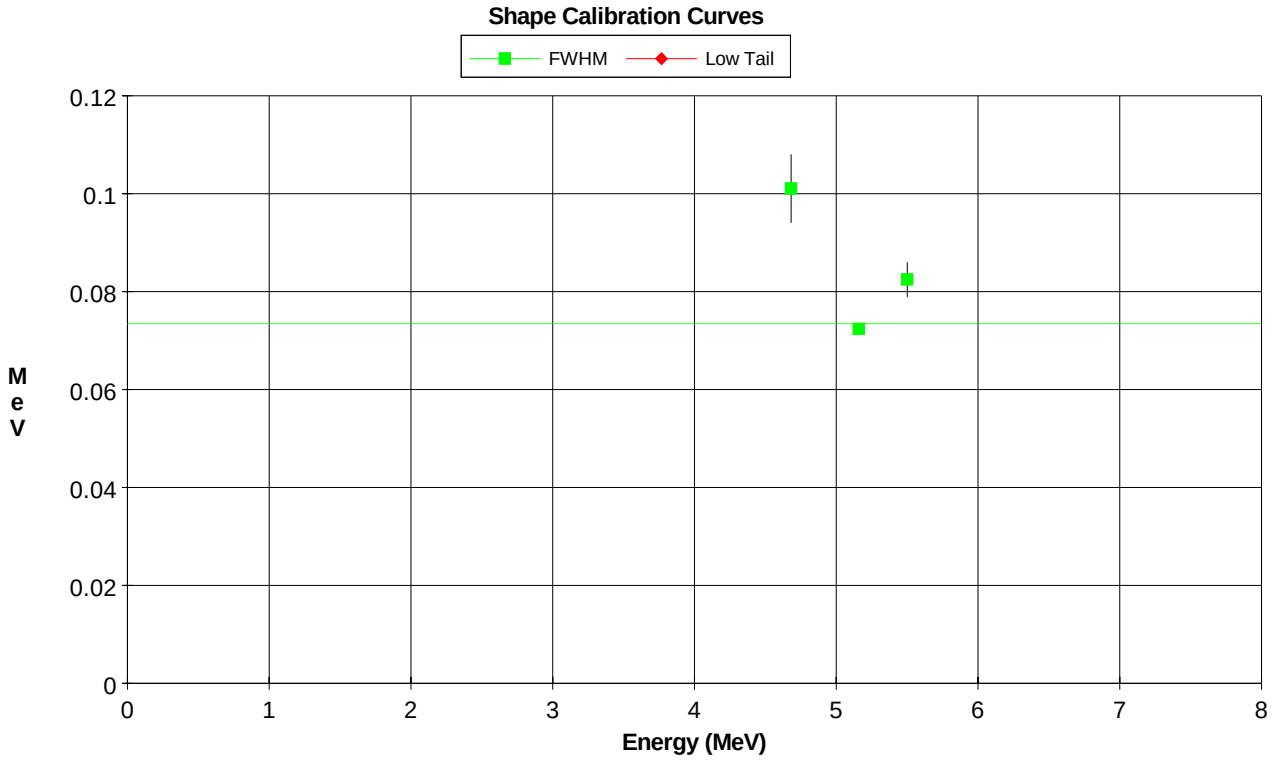
Errors quoted at 1.000 sigma

Detector A_2_1B





Datasource: A_2_1B
Energy = 2.491e+00 MeV +5.799e-03*Ch
FWHM = 7.341e-02 MeV



Datasource: A_2_1B
Energy = 2.491e+00 MeV +5.799e-03*Ch
FWHM = 7.341e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_2A
Sample Title: DET 59 SC 110124
Peak Analysis Performed on: 11/1/2024 1:45:58 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	338-	395	376.84	4655.83	73.92	5.898E+03	76.80	0.000E+00
2	426-	476	455.15	5103.02	62.10	5.655E+03	75.20	0.000E+00
3	488-	540	510.29	5417.93	55.79	5.237E+03	72.37	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 59 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.0179E+03	1.5063E+01
PU-239	0.998	5160.00*	100.00	9.7304E+02	5.0722E+01
AM-241	0.997	5485.70*	99.00	9.1022E+02	1.5677E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 1:45:58 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

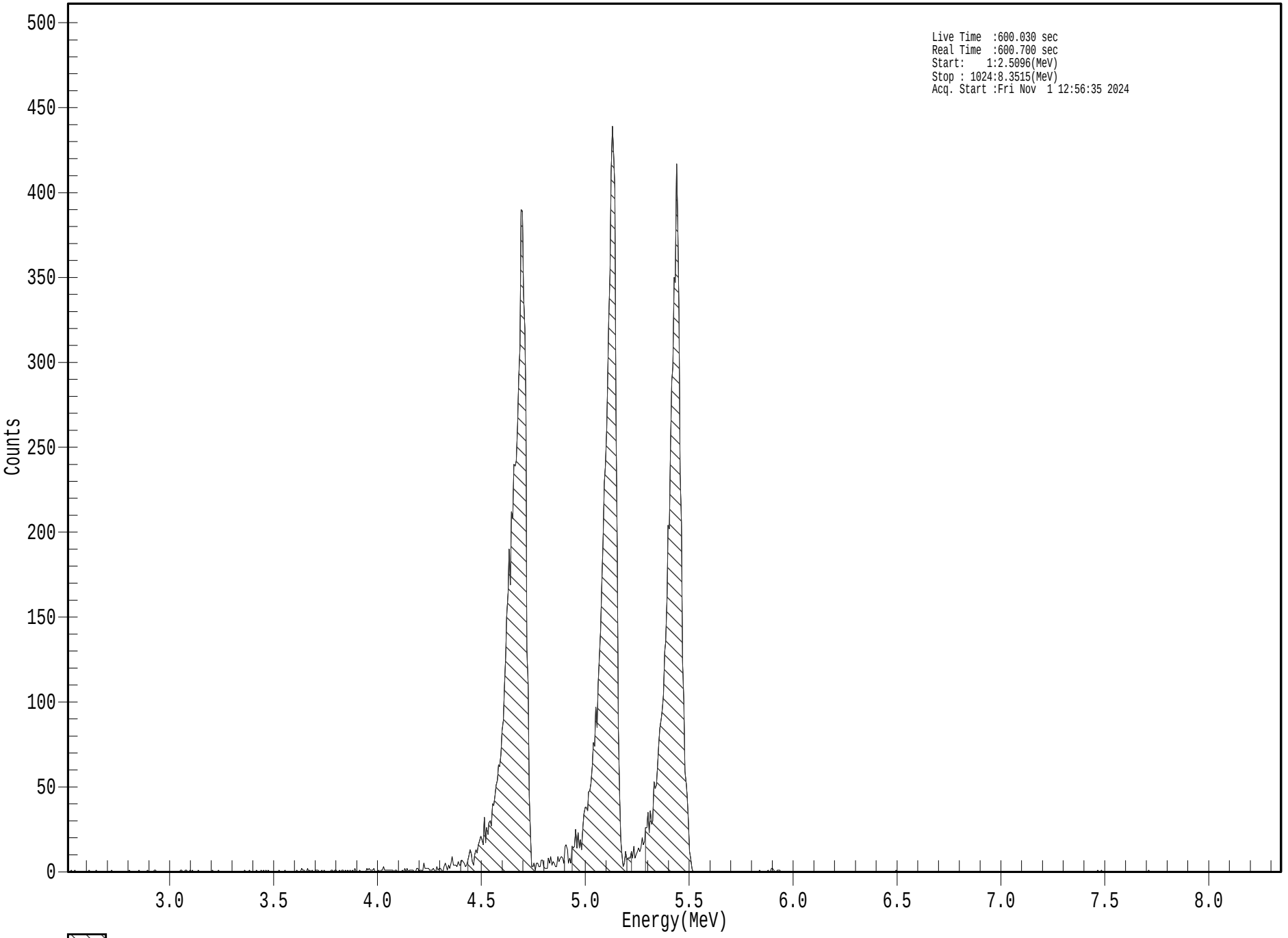
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

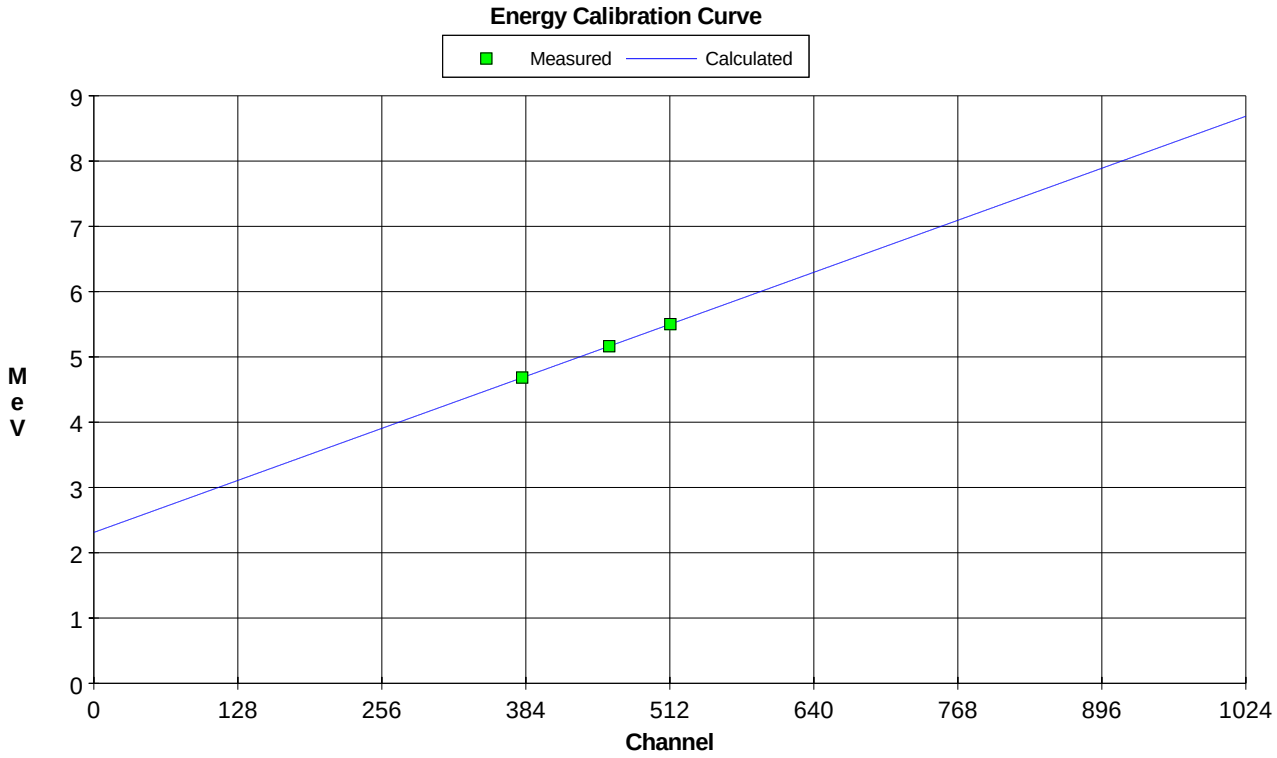
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

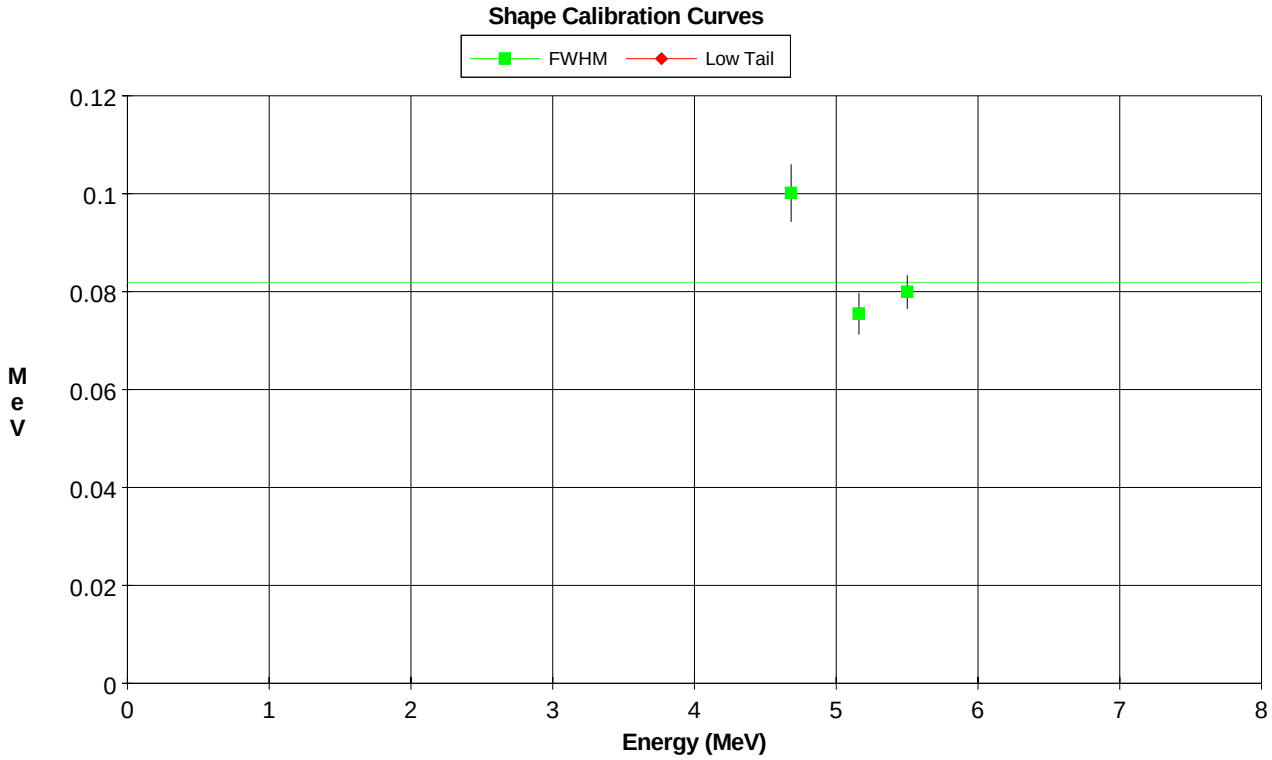
Errors quoted at 1.000 sigma

Detector A_2_2A





Datasource: A_2_2A
Energy = 2.309e+00 MeV +6.226e-03*Ch
FWHM = 8.187e-02 MeV



Datasource: A_2_2A
Energy = 2.309e+00 MeV +6.226e-03*Ch
FWHM = 8.187e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_3A
Sample Title: DET 61 SC 110124
Peak Analysis Performed on: 11/1/2024 1:46:13 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	332-	390	372.08	4659.74	61.51	5.897E+03	76.79	0.000E+00
2	421-	472	455.82	5133.62	59.81	6.089E+03	78.03	0.000E+00
3	484-	536	514.78	5467.31	63.13	5.641E+03	75.11	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 61 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	1.000	4687.60*	99.70	1.0630E+03	1.4327E+01
PU-239	1.000	5160.00*	100.00	1.0944E+03	5.6519E+01
AM-241	1.000	5485.70*	99.00	1.0241E+03	1.6048E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 1:46:13 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

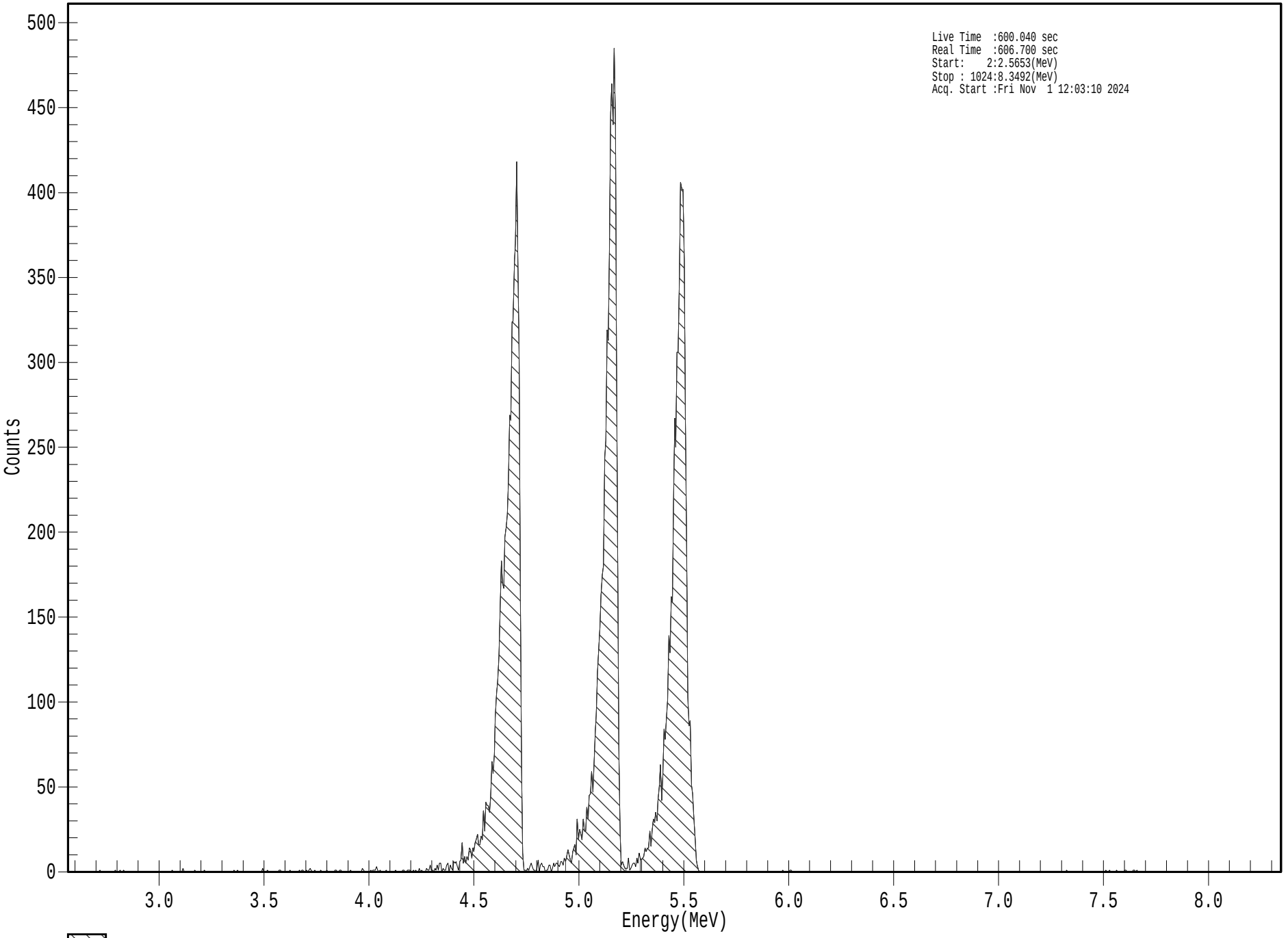
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

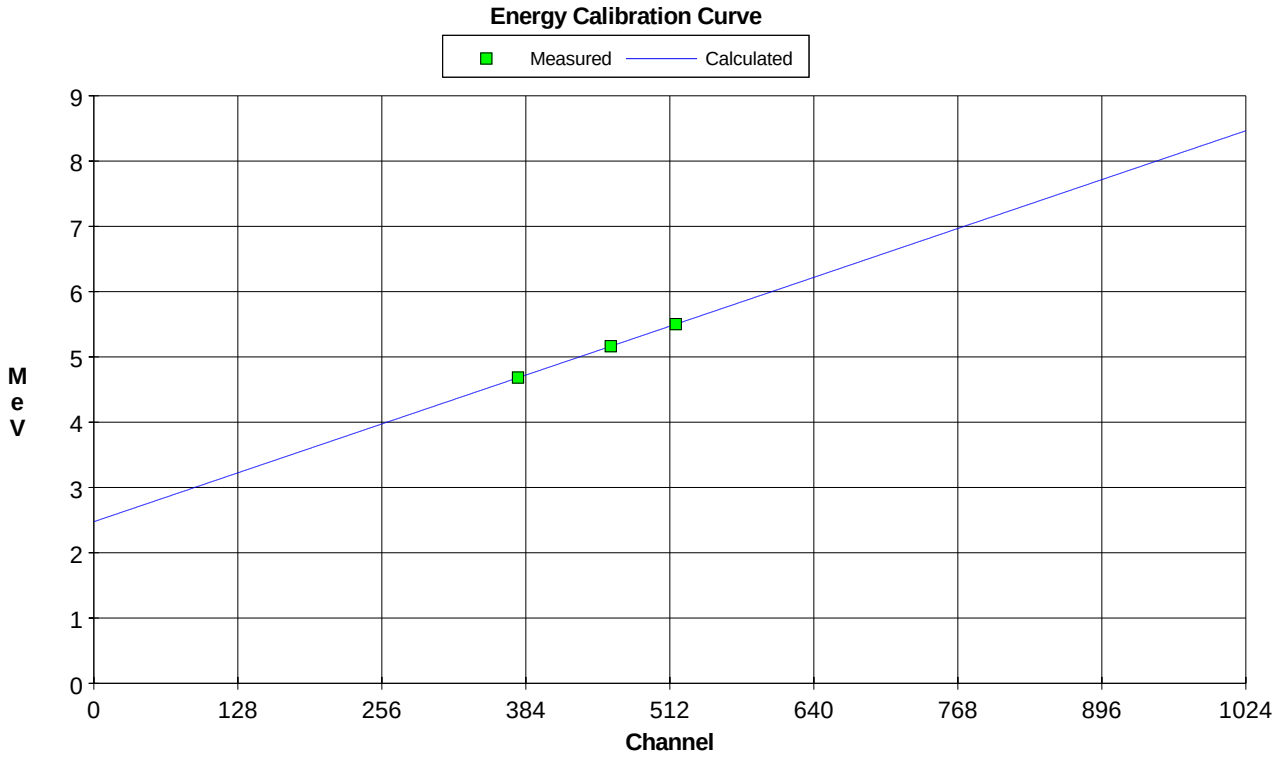
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

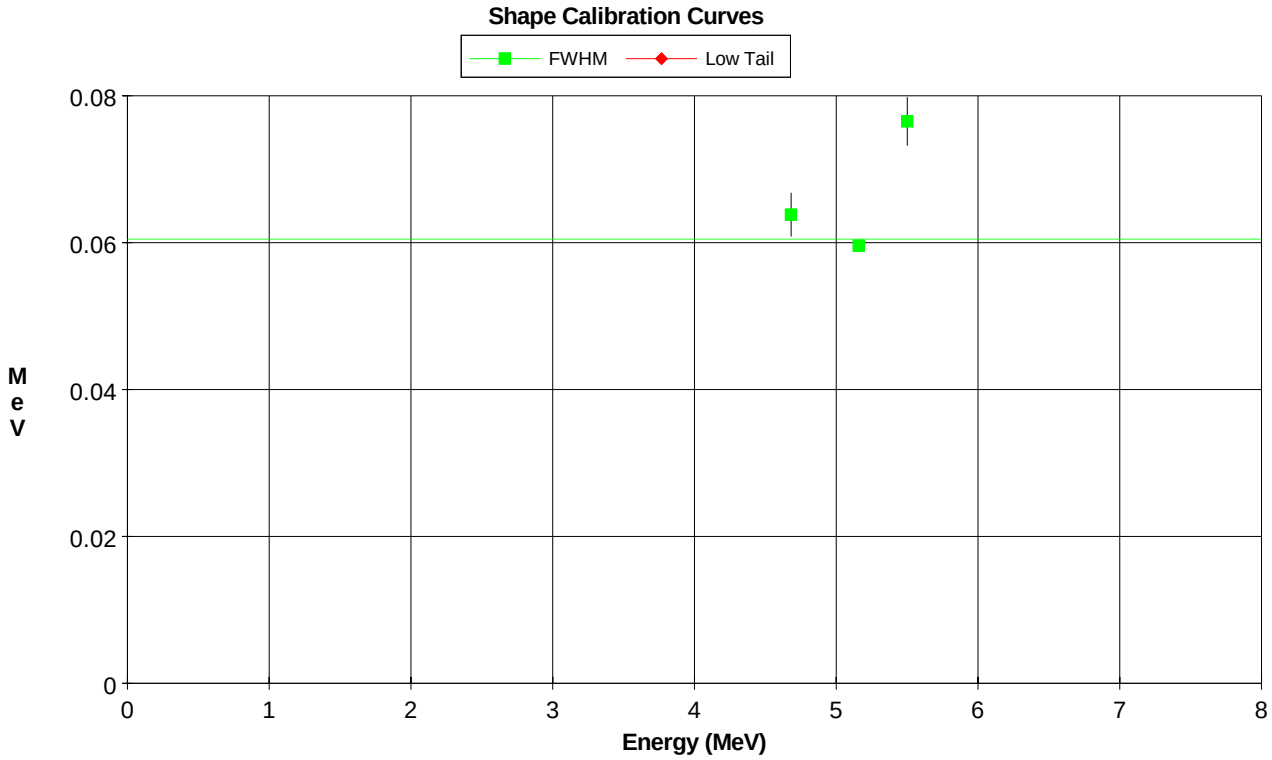
Errors quoted at 1.000 sigma

Detector A_2_3A





Datasource: A_2_3A
Energy = 2.473e+00 MeV +5.849e-03*Ch
FWHM = 6.045e-02 MeV



Datasource: A_2_3A
Energy = 2.473e+00 MeV +5.849e-03*Ch
FWHM = 6.045e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: A_2_3B

Report Generated On : 2/18/2025 3:10:32 PM

Sample Title : DET 62 SC 021825
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 2/18/2025 2:19:25 PM

Live Time : 600.0 seconds
Real Time : 601.3 seconds

Dead Time : 0.21 %

Energy Calibration Used Done On : 2/18/2025
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

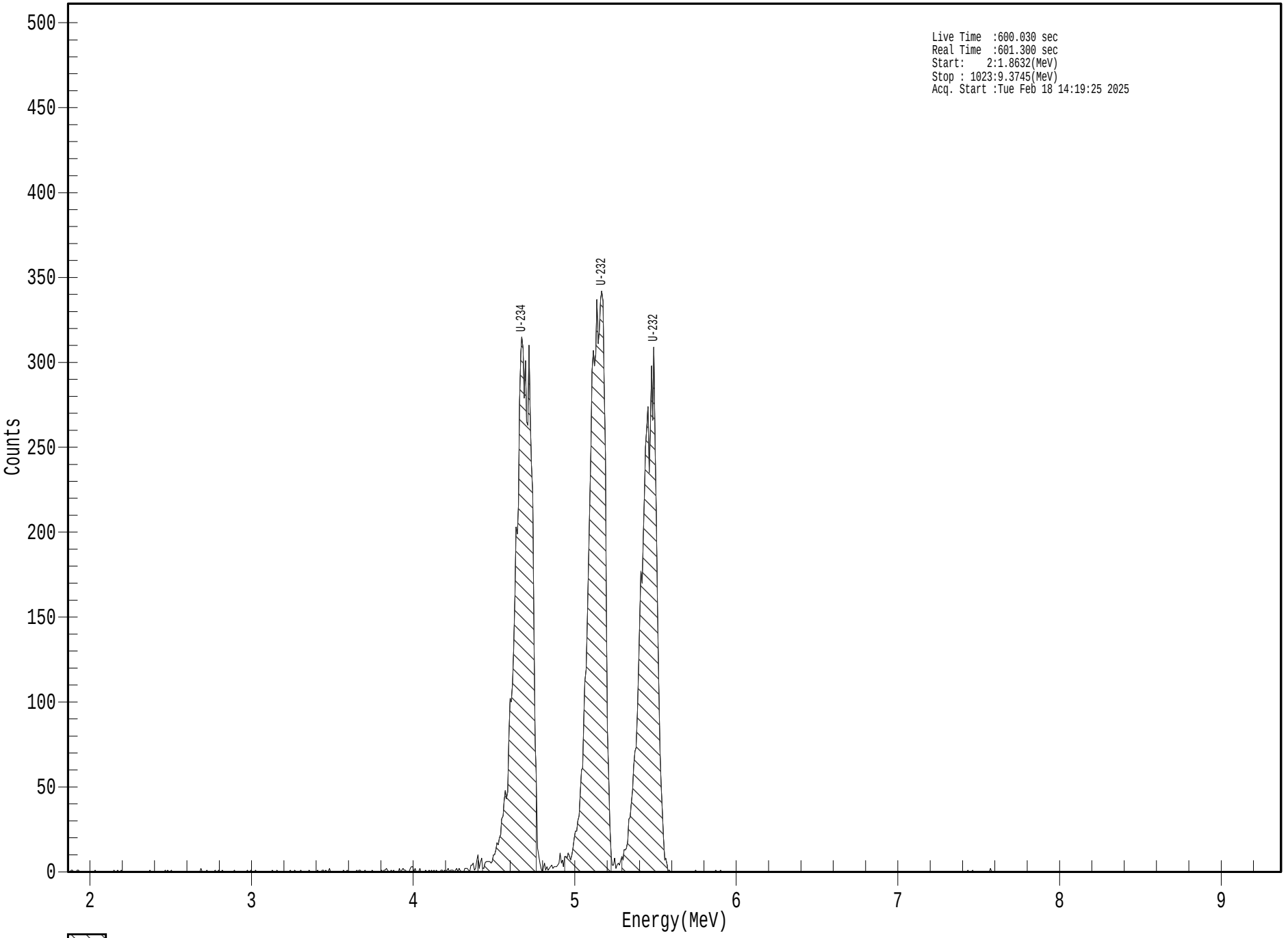
Detector Name: A_2_3B
Sample Title: DET 62 SC 021825
Peak Analysis Performed on: 2/18/2025 3:10:32 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

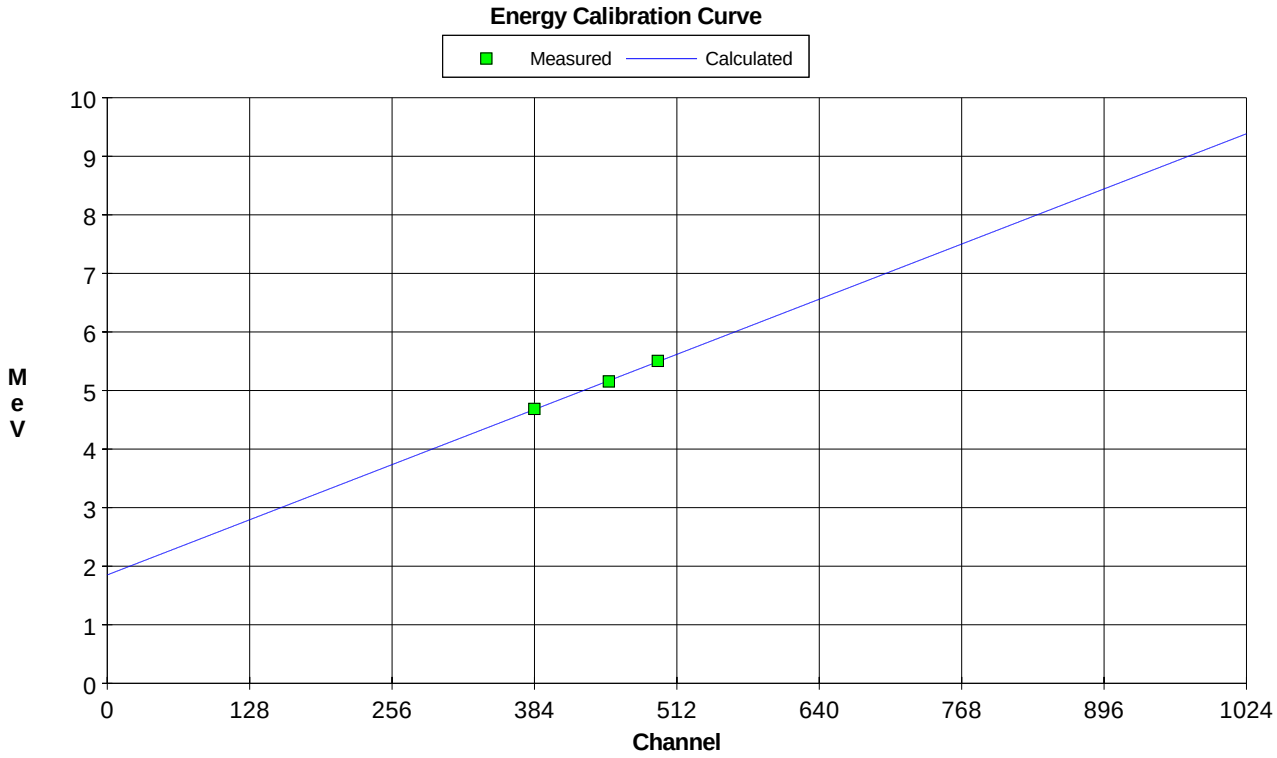
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	351-	396	383.81	4672.12	118.13	5.333E+03	73.03	0.000E+00
2	420-	459	445.94	5129.19	111.45	5.544E+03	74.46	0.000E+00
3	468-	508	489.78	5451.69	108.94	4.644E+03	68.15	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

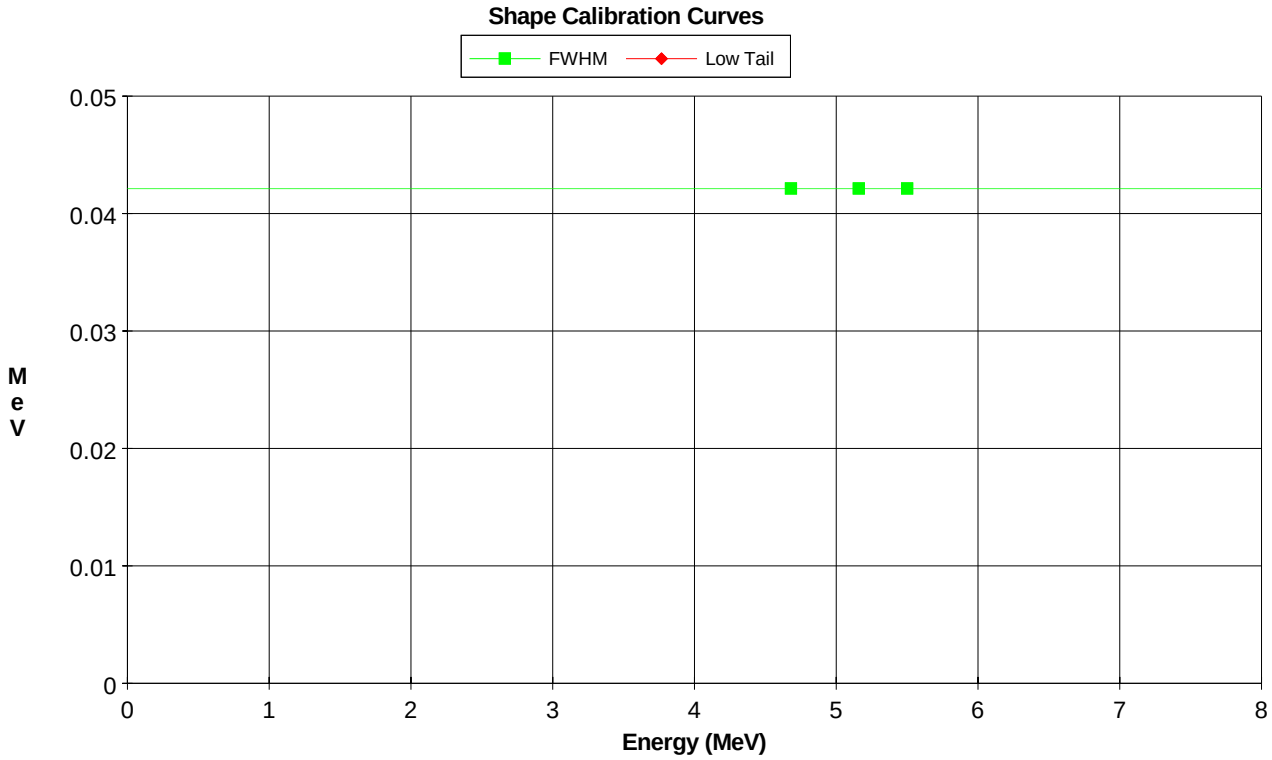
Errors quoted at 1.000 sigma

Detector A_2_3B





Datasource: A_2_3B
Energy = 1.848e+00 MeV +7.357e-03*Ch
FWHM = 6.964e-02 MeV



Datasource: O:\alpha_sp\2025_Source_Checks\66\2_Feburary\66021825.CNF
Energy = 1.853e+00 MeV +7.198e-03*Ch
FWHM = 4.210e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_5A
Sample Title: DET 65 SC 110124
Peak Analysis Performed on: 11/1/2024 1:46:43 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	335-	392	373.48	4653.32	66.77	6.037E+03	77.70	0.000E+00
2	423-	472	457.21	5137.62	56.53	5.640E+03	75.10	0.000E+00
3	484-	535	516.55	5480.89	62.30	5.367E+03	73.26	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 65 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.999	4687.60*	99.70	1.0585E+03	1.4202E+01
PU-239	1.000	5160.00*	100.00	9.8592E+02	5.1065E+01
AM-241	1.000	5485.70*	99.00	9.4767E+02	1.5191E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 1:46:43 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

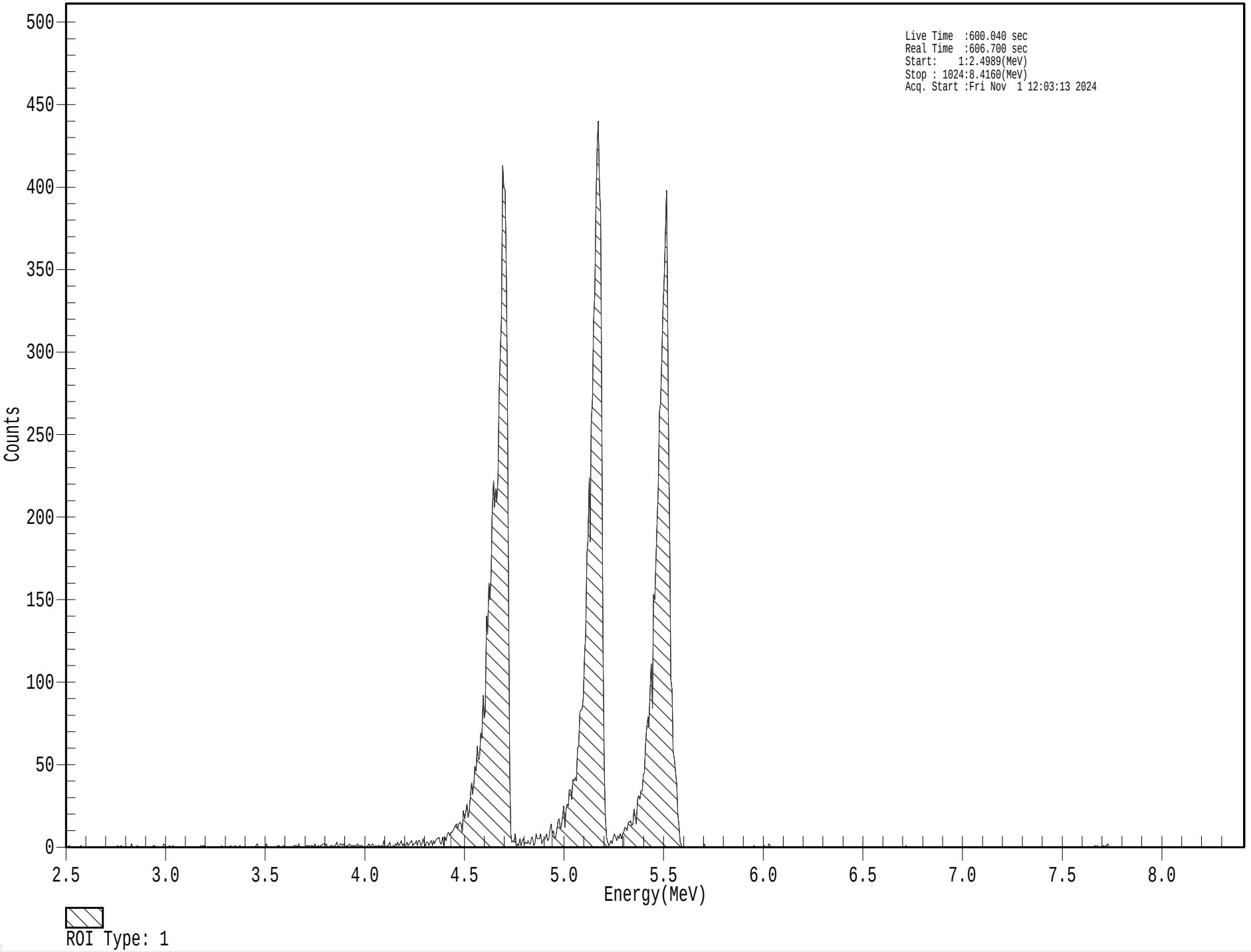
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

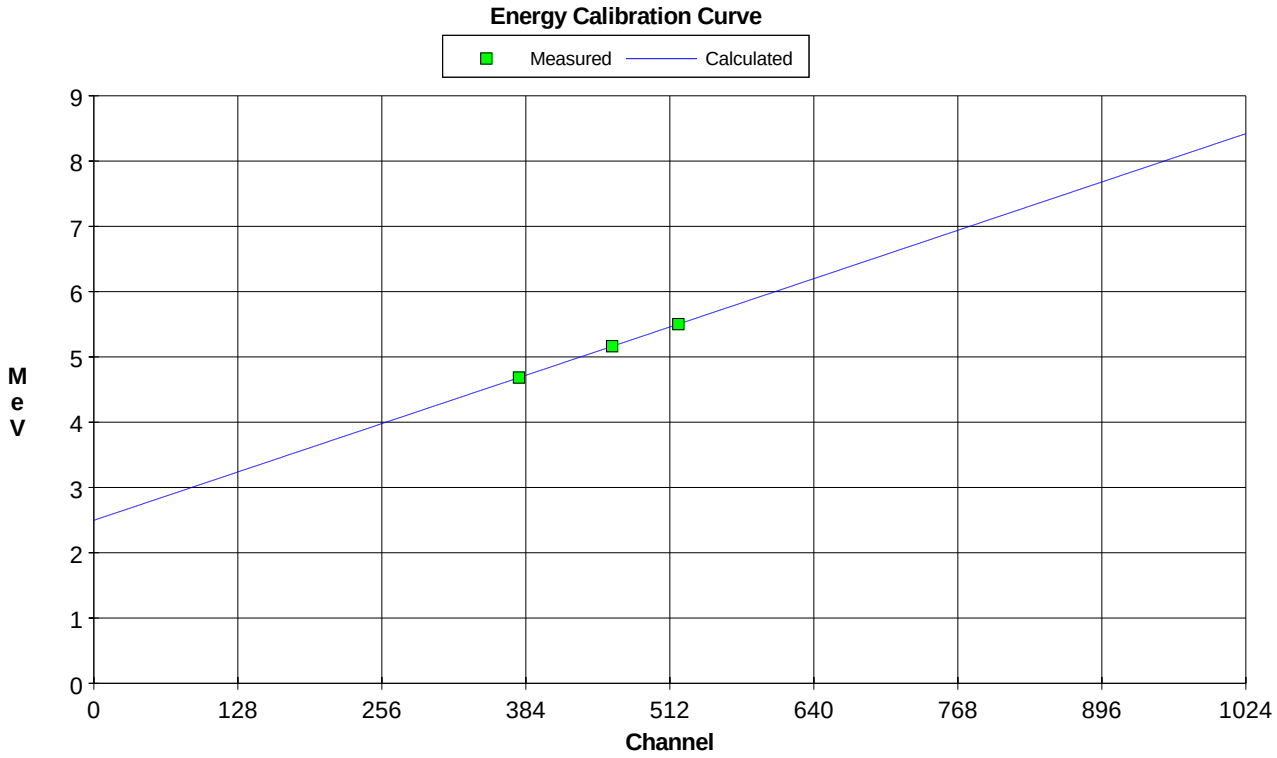
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

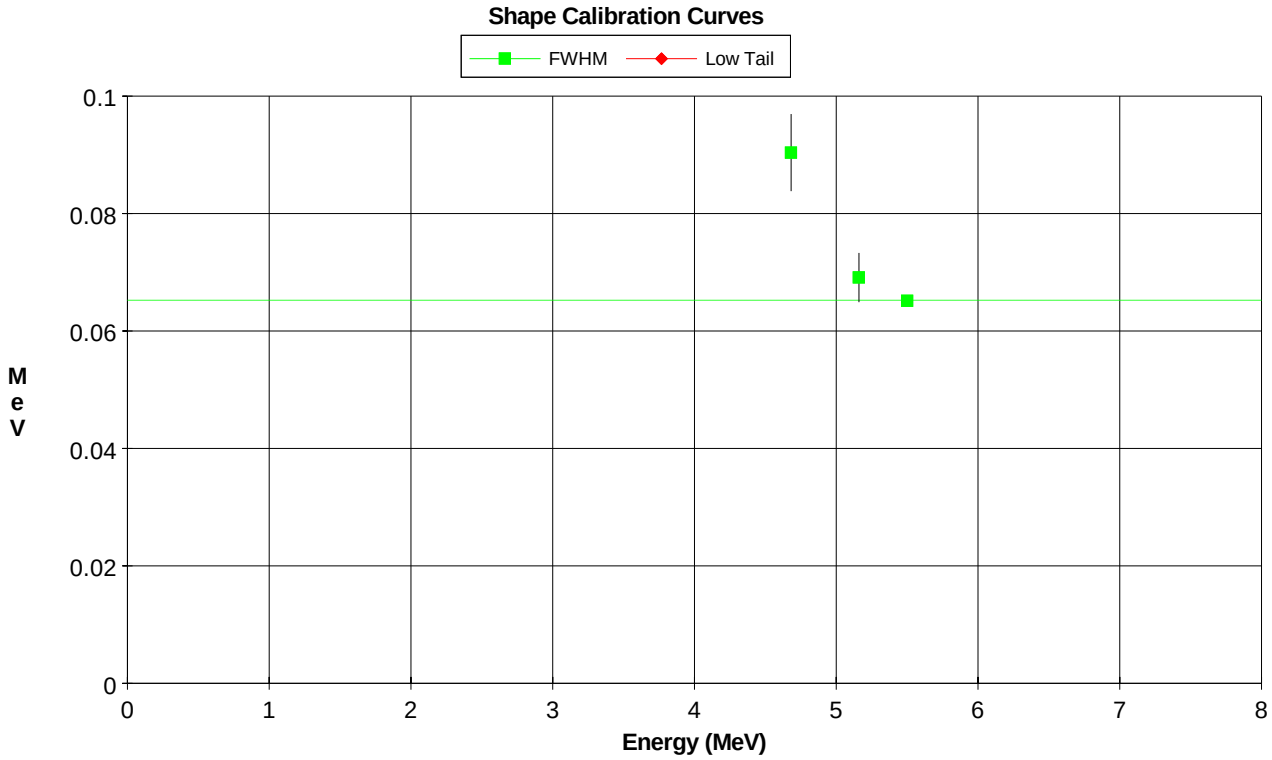
Errors quoted at 1.000 sigma

Detector A_2_5A





Datasource: A_2_5A
Energy = 2.495e+00 MeV +5.784e-03*Ch
FWHM = 6.519e-02 MeV



Datasource: A_2_5A
Energy = 2.495e+00 MeV +5.784e-03*Ch
FWHM = 6.519e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_5B
Sample Title: DET 66 SC 110124
Peak Analysis Performed on: 11/1/2024 1:46:57 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	394	371.84	4628.65	82.24	6.097E+03	78.08	0.000E+00
2	424-	472	455.41	5124.10	59.57	6.043E+03	77.74	0.000E+00
3	484-	533	514.34	5473.49	69.32	5.392E+03	73.43	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 66 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.998	4687.60*	99.70	1.0863E+03	1.7114E+01
PU-239	0.999	5160.00*	100.00	1.0734E+03	5.6194E+01
AM-241	1.000	5485.70*	99.00	9.6744E+02	1.7466E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 1:46:57 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

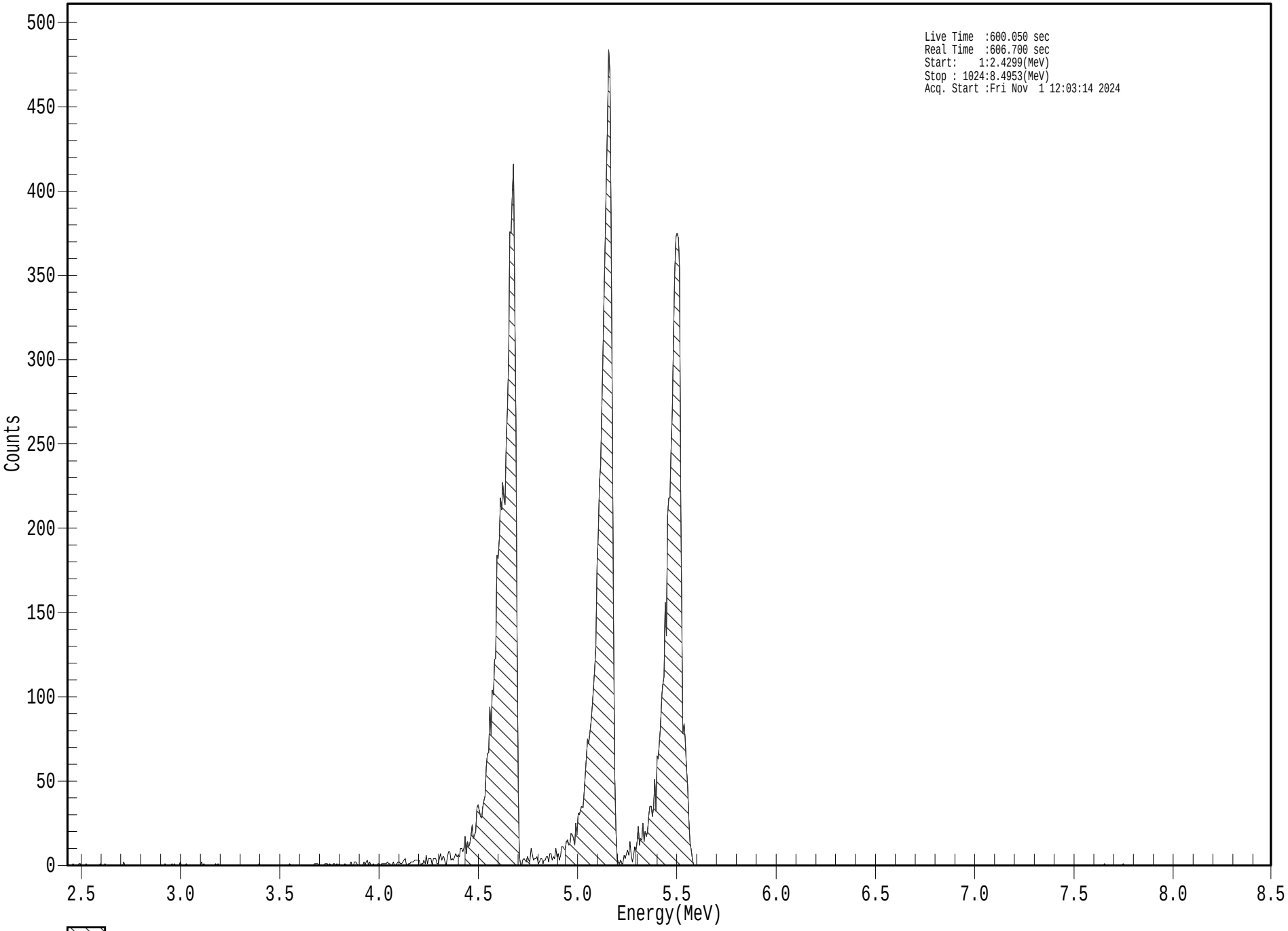
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

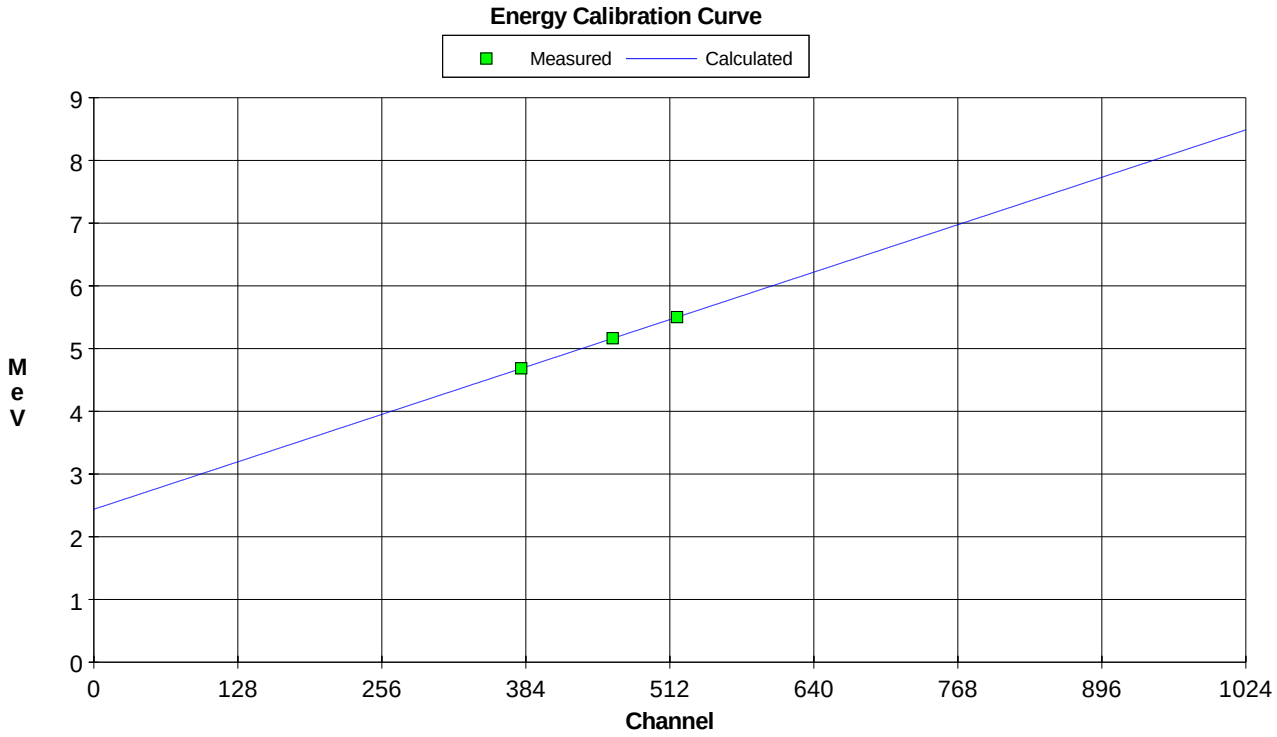
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

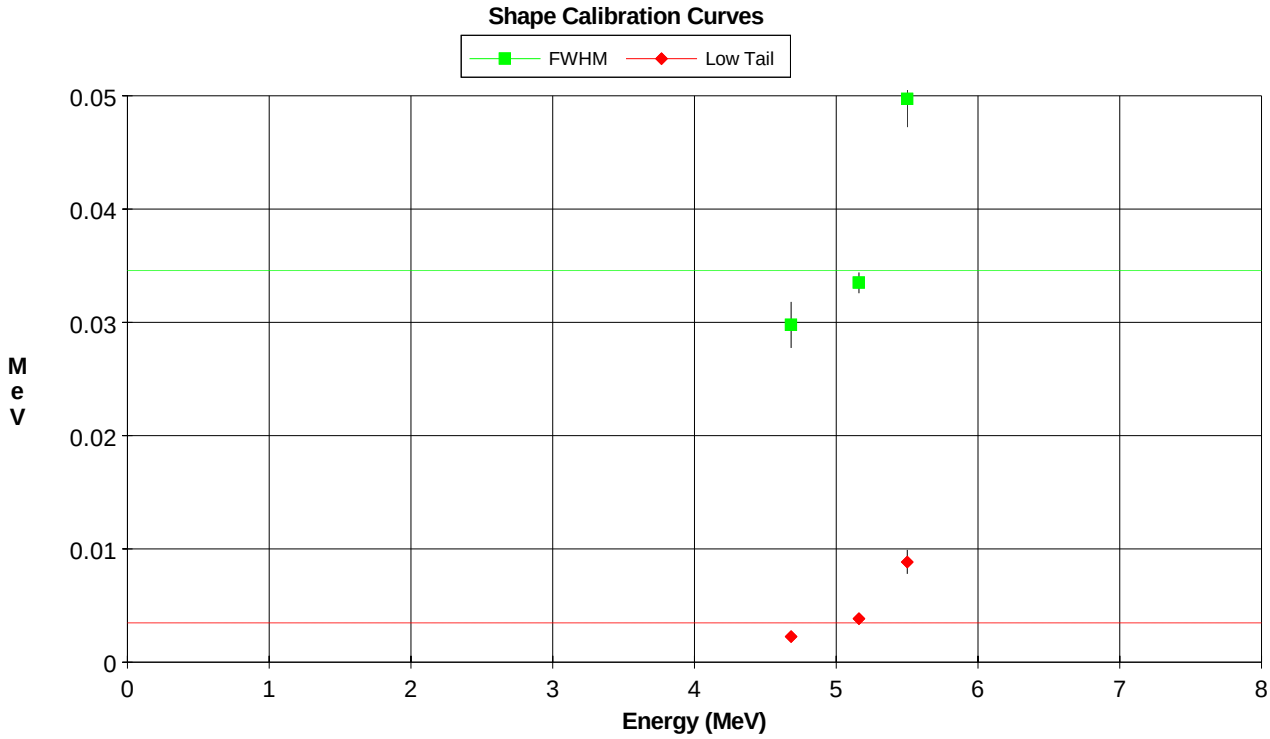
Errors quoted at 1.000 sigma

Detector A_2_5B





Datasource: A_2_5B
Energy = 2.436e+00 MeV +5.907e-03*Ch
FWHM = 3.455e-02 MeV
Lo Tail = 3.464e-03 MeV



Datasource: A_2_5B
Energy = 2.436e+00 MeV +5.907e-03*Ch
FWHM = 3.455e-02 MeV
Lo Tail = 3.464e-03 MeV

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2025\Calibrations\021825\67\67.CNF

Report Generated On             : 2/20/2025   1:01:47 PM

Sample Title                    : DET 67 SC 021825
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 2/18/2025   2:20:50 PM

Live Time                       :      600.1 seconds
Real Time                       :      601.0 seconds

Dead Time                       :   0.15 %


              Energy Calibration Used Done On       : 2/18/2025
              Efficiency Calibration Used Done On   : 2/18/2025
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

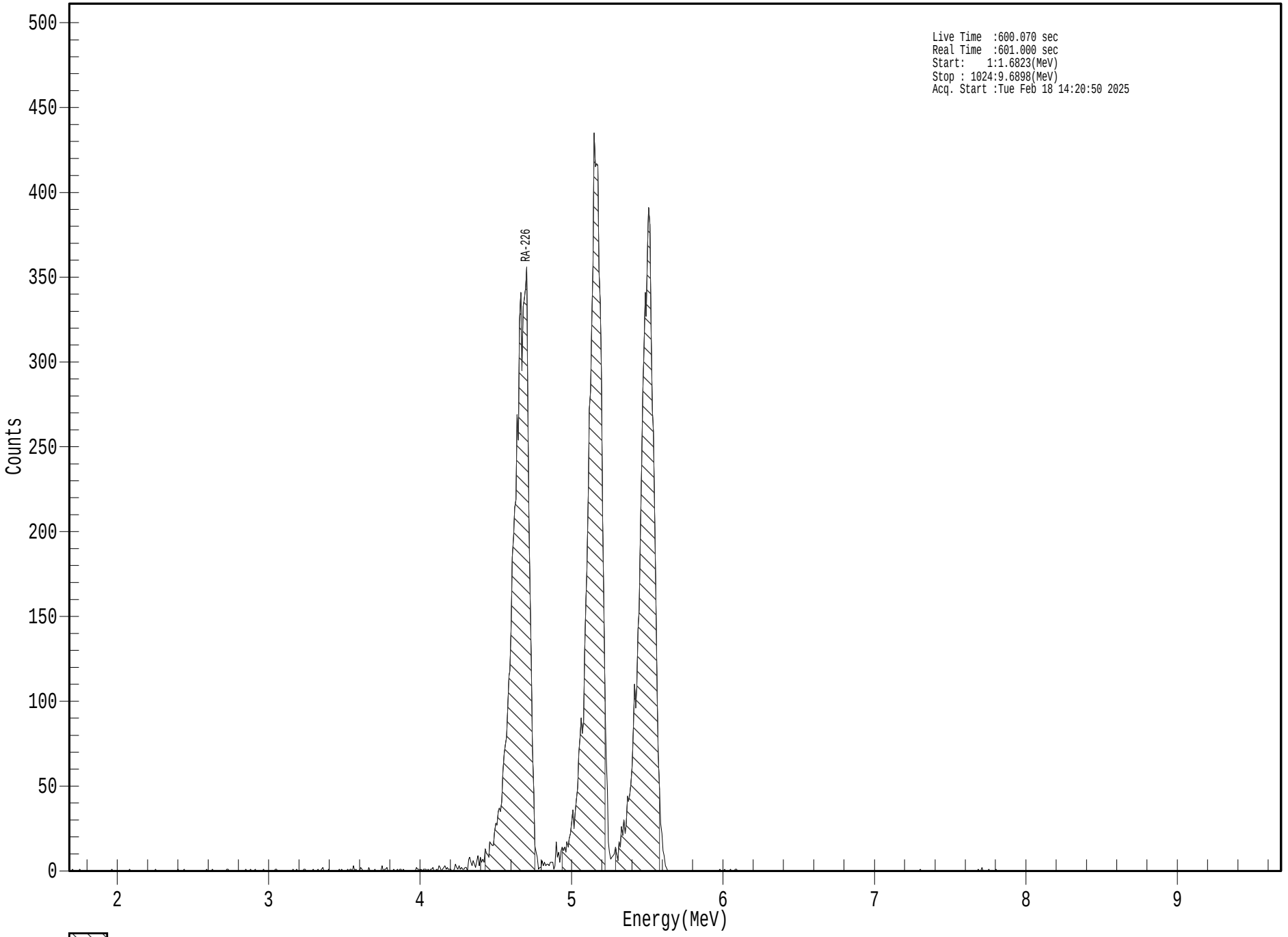
Detector Name: A_2_6A
Sample Title: DET 67 SC 021825
Peak Analysis Performed on: 2/20/2025 1:01:47 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

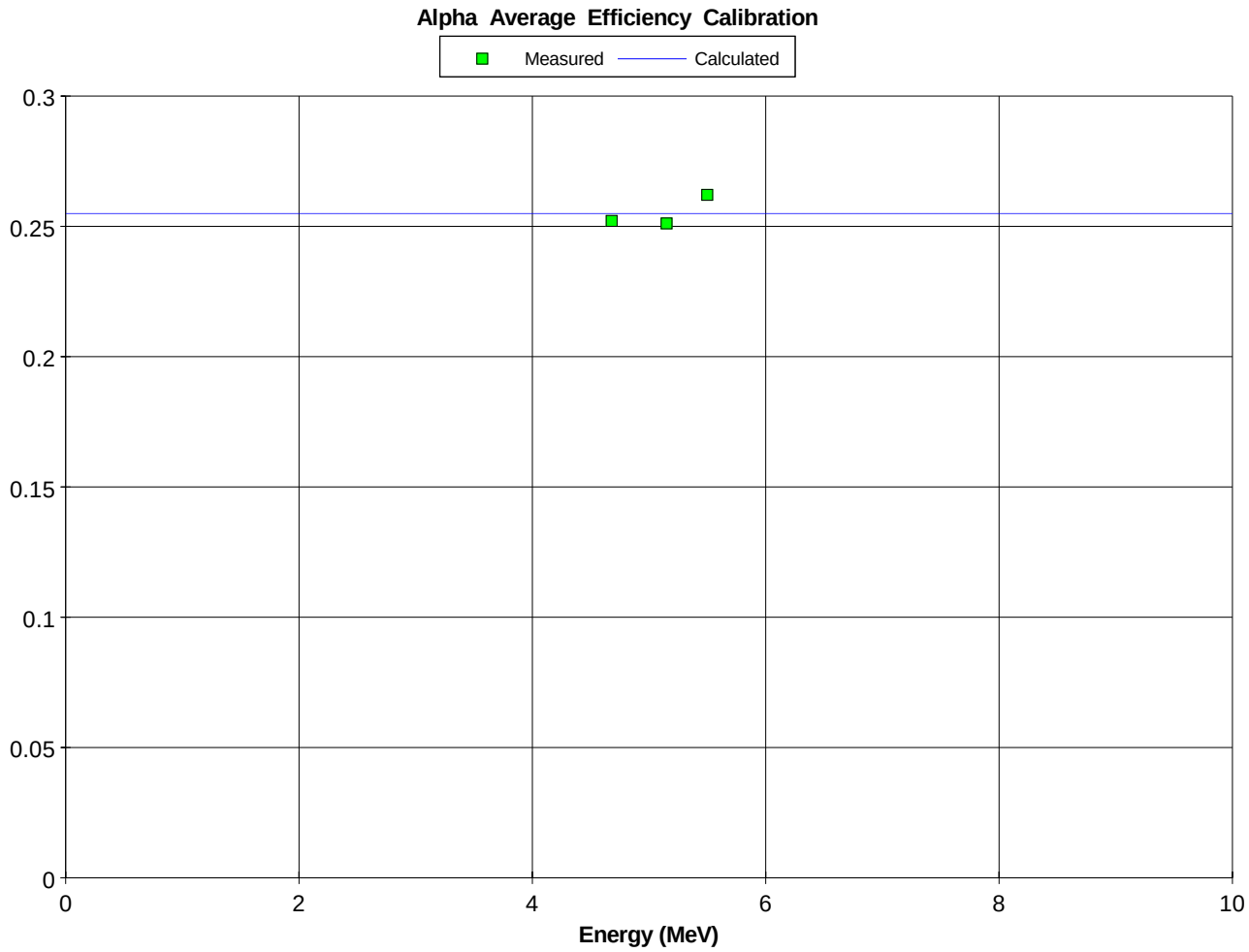
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	352-	394	380.41	4652.14	116.43	5.66E+03	75.26	0.00E+00
2	417-	453	442.79	5140.36	94.30	5.81E+03	76.22	0.00E+00
3	462-	499	487.03	5486.72	97.08	5.41E+03	73.55	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

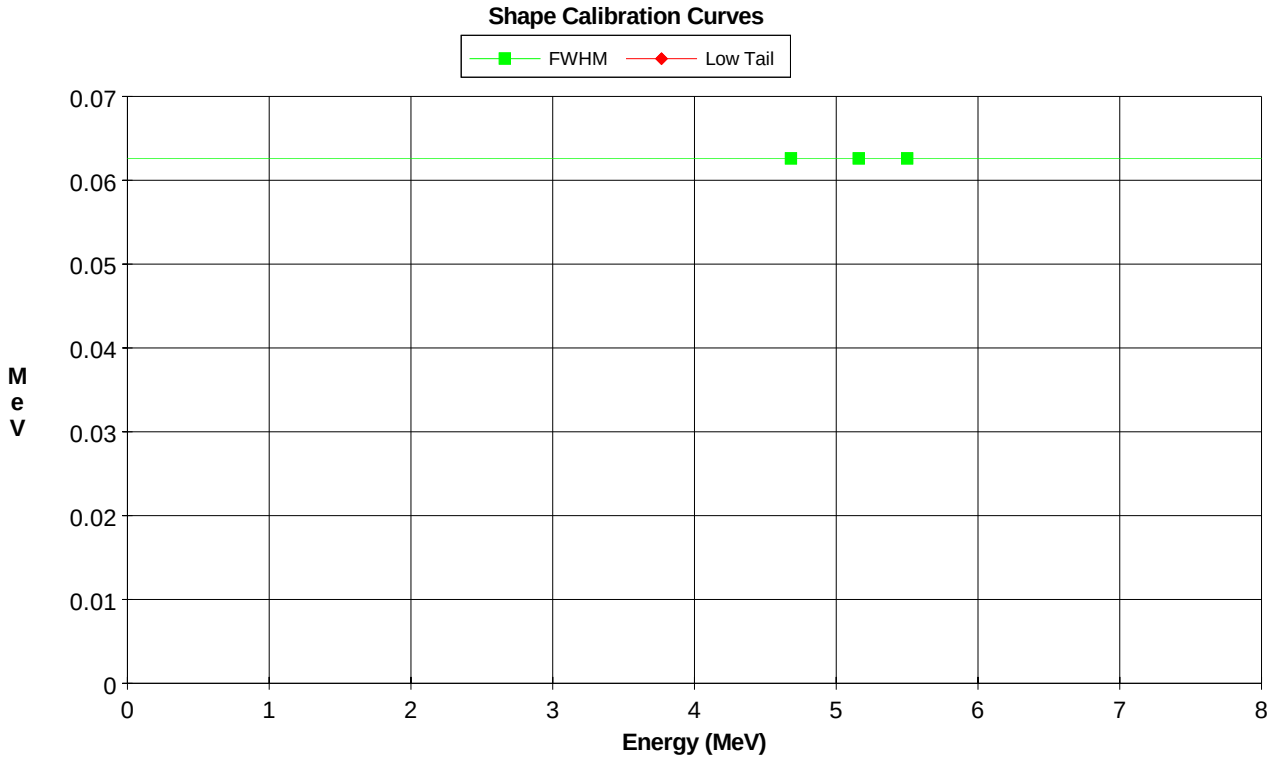
Errors quoted at 1.000 sigma

67.CNF


Live Time :600.070 sec
Real Time :601.000 sec
Start: 1:1.6823(MeV)
Stop : 1024:9.6898(MeV)
Acq. Start :Tue Feb 18 14:20:50 2025
RA-226
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_2_6A
Eff = 2.548e-01



Datasource: O:\alpha_sp\2025\Calibrations\021825\67\67.CNF
Energy = 1.674e+00 MeV +7.827e-03*Ch
FWHM = 6.259e-02 MeV

****
***** P E A K A N A L Y S I S R E P O R T *****
****

Detector Name: A_2_6B
Sample Title: DET 68 SC 110124
Peak Analysis Performed on: 11/1/2024 2:20:13 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	333-	390	368.13	4634.13	70.50	5.909E+03	76.87	0.000E+00
2	420-	470	448.14	5099.06	68.38	6.172E+03	78.56	0.000E+00
3	482-	532	504.73	5427.95	64.66	5.593E+03	74.79	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: DET 68 SC 110124
Nuclide Library Used: O:\alpha_sp\SOURCECHECK.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/Unit)	Activity Uncertainty
TH-230	0.998	4687.60*	99.70	1.0627E+03	1.5228E+01
PU-239	0.998	5160.00*	100.00	1.1067E+03	5.7390E+01
AM-241	0.998	5485.70*	99.00	1.0130E+03	1.6680E+01

* = Energy line found in the spectrum.
Energy Tolerance : 0.500 MeV
Nuclide confidence index threshold = 0.30
Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 11/1/2024 2:20:13 PM
Peak Locate From Channel: 1
Peak Locate To Channel: 1024

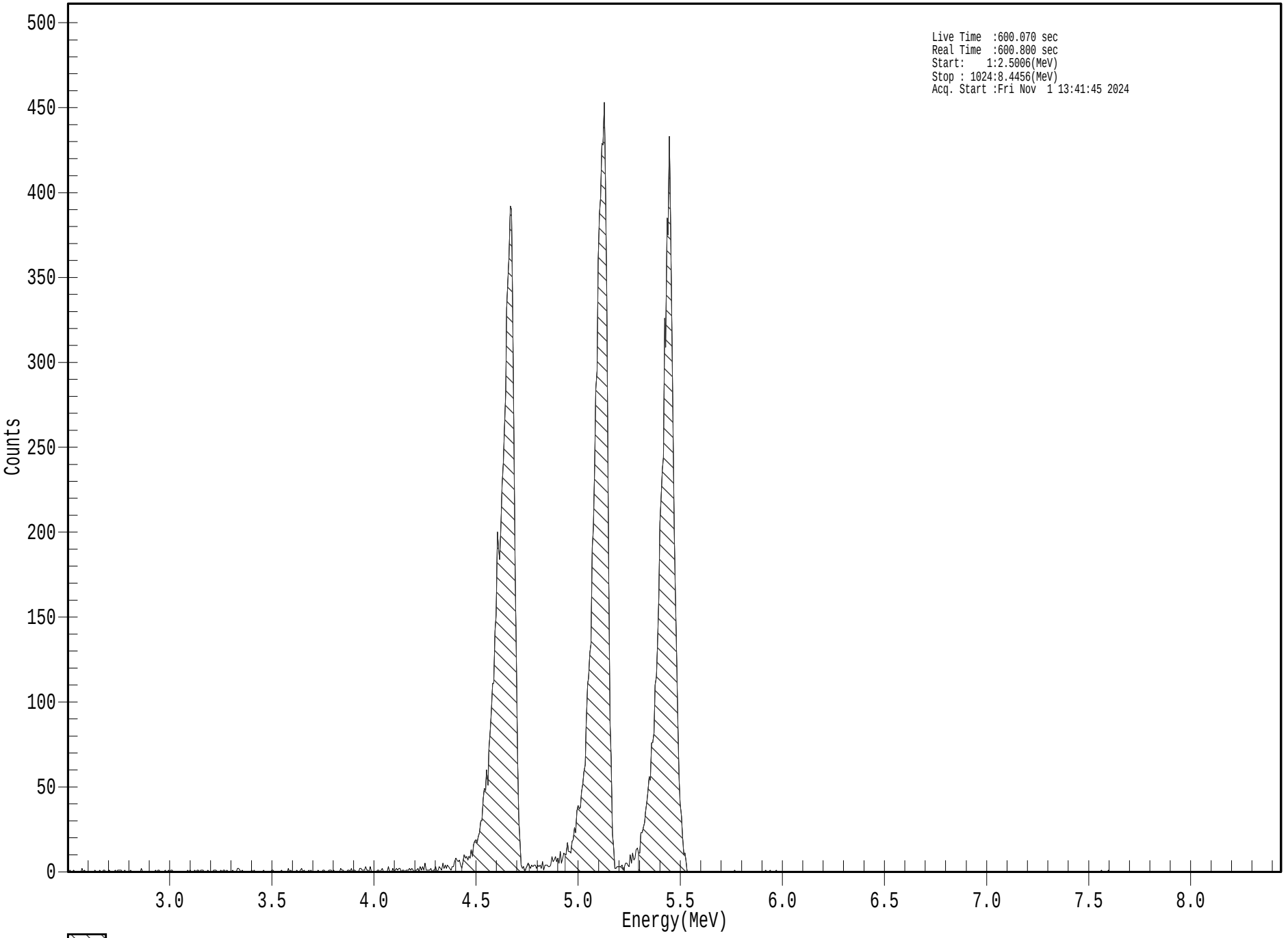
Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide

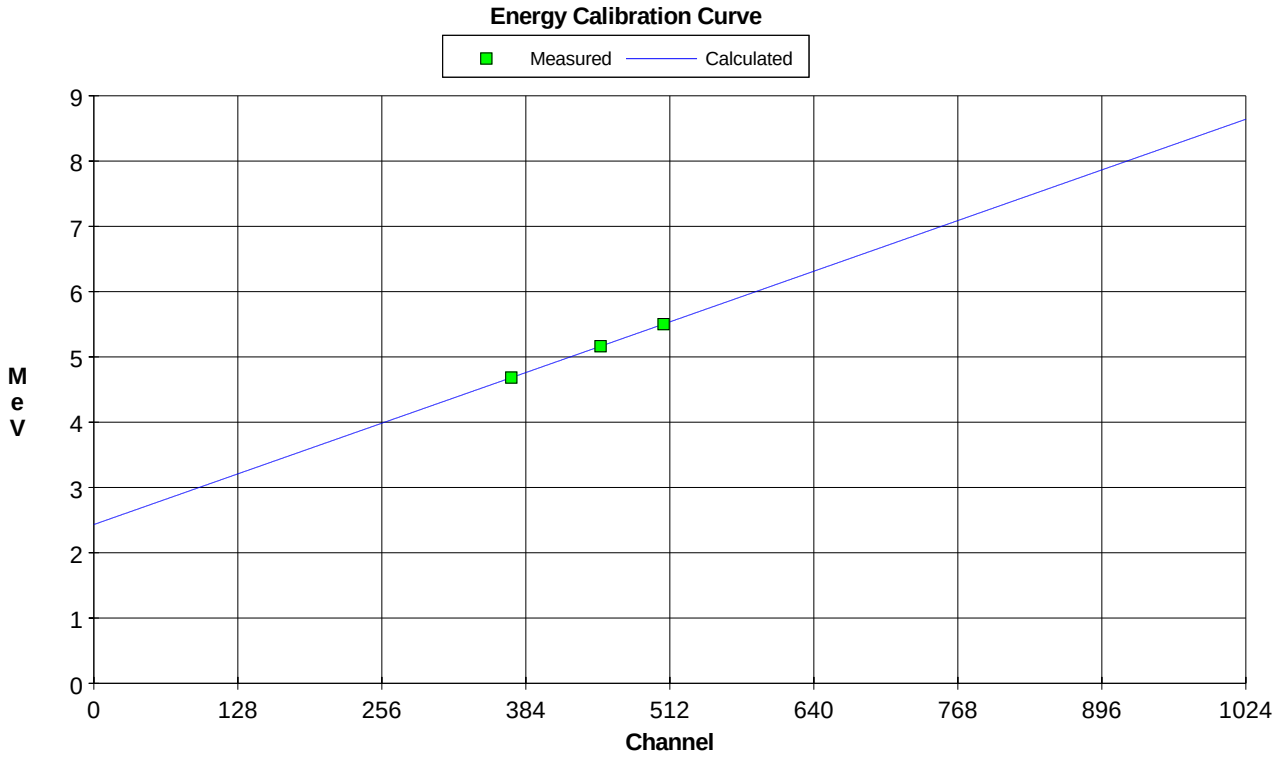
All peaks were identified.

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

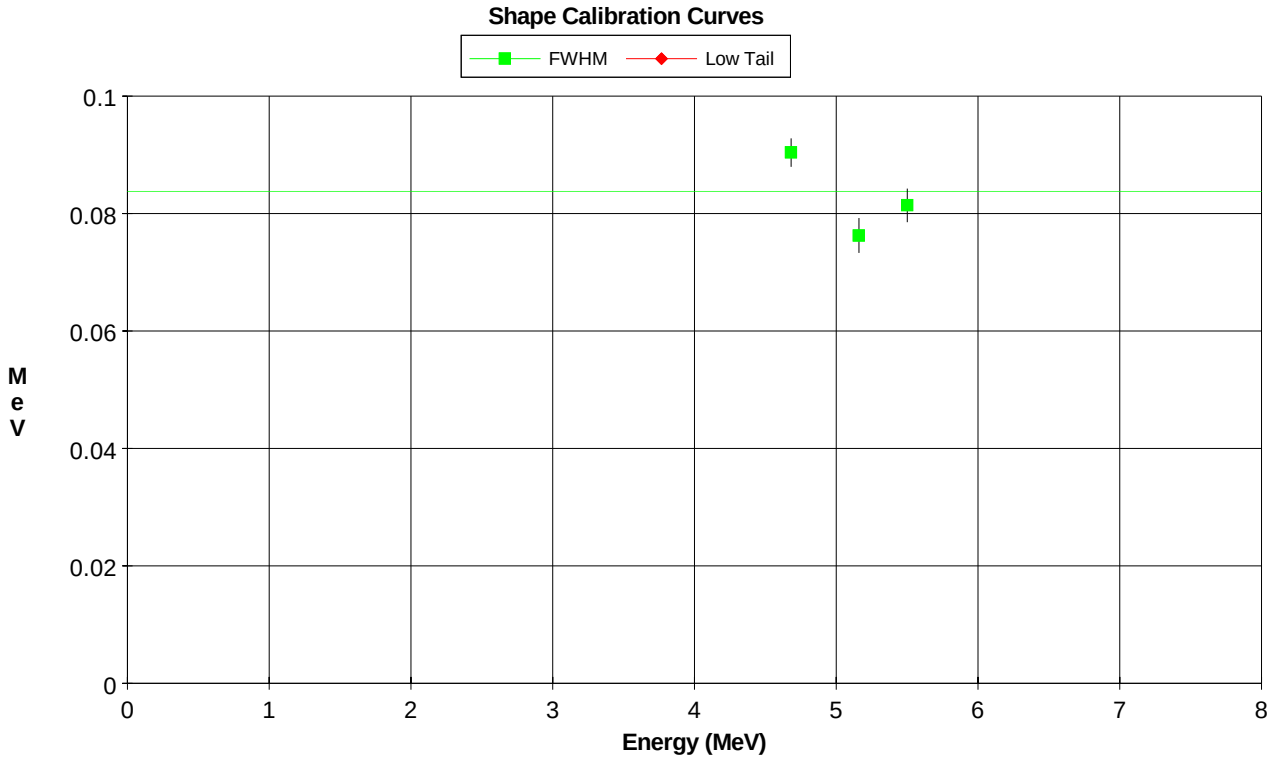
Errors quoted at 1.000 sigma

Detector A_2_6B





Datasource: A_2_6B
Energy = 2.430e+00 MeV +6.063e-03*Ch
FWHM = 8.371e-02 MeV



Datasource: A_2_6B
Energy = 2.430e+00 MeV +6.063e-03*Ch
FWHM = 8.371e-02 MeV

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\69\69.CNF

Report Generated On             : 11/13/2024  2:30:05 PM

Sample Title                    : DET 69 SC 110724
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 11/7/2024   6:40:29 PM

Live Time                       :      600.0 seconds
Real Time                       :      604.6 seconds

Dead Time                       :   0.76 %


              Energy Calibration Used Done On       : 11/7/2024
              Efficiency Calibration Used Done On   : 6/25/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

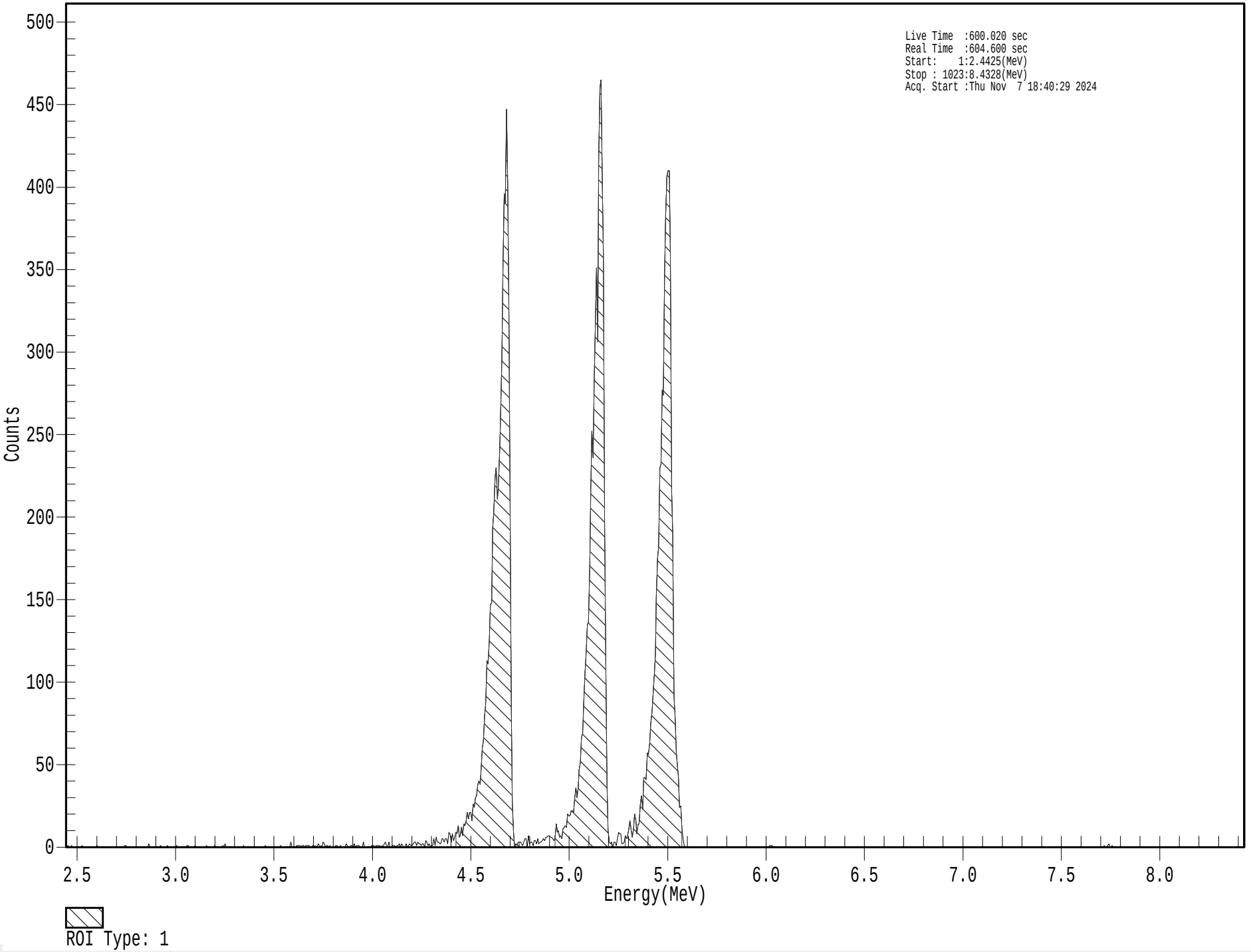
Detector Name: A_3_1A
Sample Title: DET 69 SC 110724
Peak Analysis Performed on: 11/13/2024 2:30:05 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

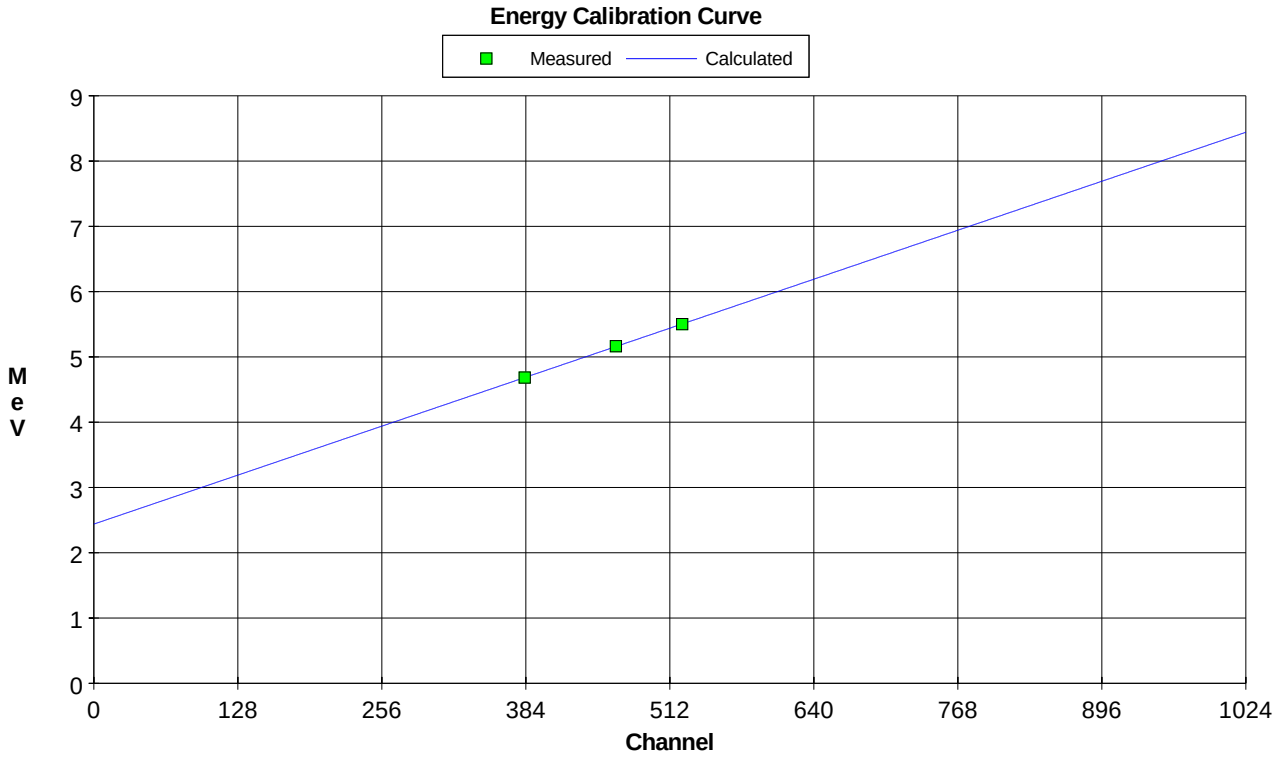
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	394	375.66	4638.51	56.72	6.14E+03	78.38	0.00E+00
2	425-	474	459.30	5128.79	66.25	5.77E+03	75.99	0.00E+00
3	486-	535	518.61	5476.42	64.15	5.62E+03	74.99	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

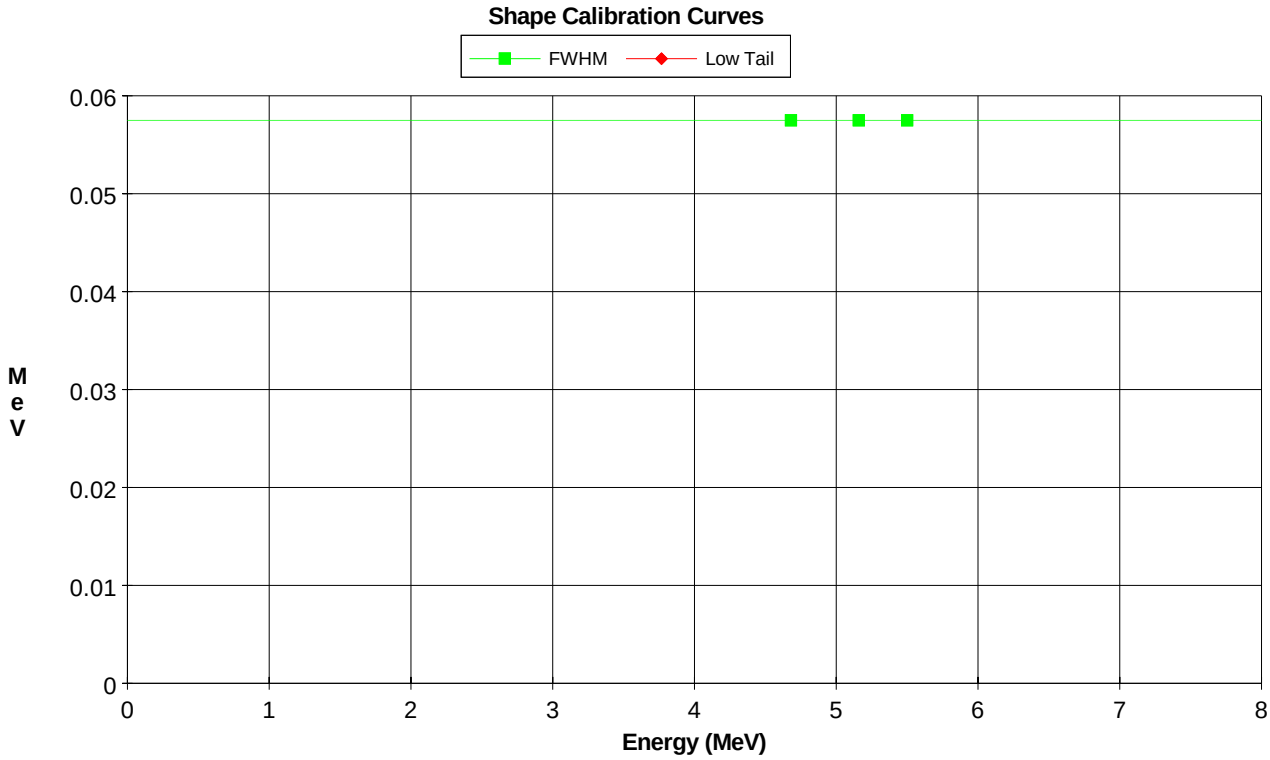
Errors quoted at 1.000 sigma

69.CNF


Live Time :600.020 sec
Real Time :604.600 sec
Start: 1:2.4425(MeV)
Stop : 1023:8.4328(MeV)
Acq. Start :Thu Nov 7 18:40:29 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: O:\alpha_sp\2024\CALIBRATIONS\110724\69\69.CNF
Energy = 2.437e+00 MeV +5.861e-03*Ch
FWHM = 5.746e-02 MeV



Datasource: O:\alpha_sp\2024\CALIBRATIONS\110724\69\69.CNF
Energy = 2.437e+00 MeV +5.861e-03*Ch
FWHM = 5.746e-02 MeV

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\70\70.CNF

Report Generated On             : 11/13/2024  2:33:24 PM

Sample Title                    : DET 70 SC 110724
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 11/7/2024   6:40:34 PM

Live Time                       :      600.1 seconds
Real Time                       :      604.7 seconds

Dead Time                       :   0.76 %


              Energy Calibration Used Done On       : 11/7/2024
              Efficiency Calibration Used Done On   : 11/7/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

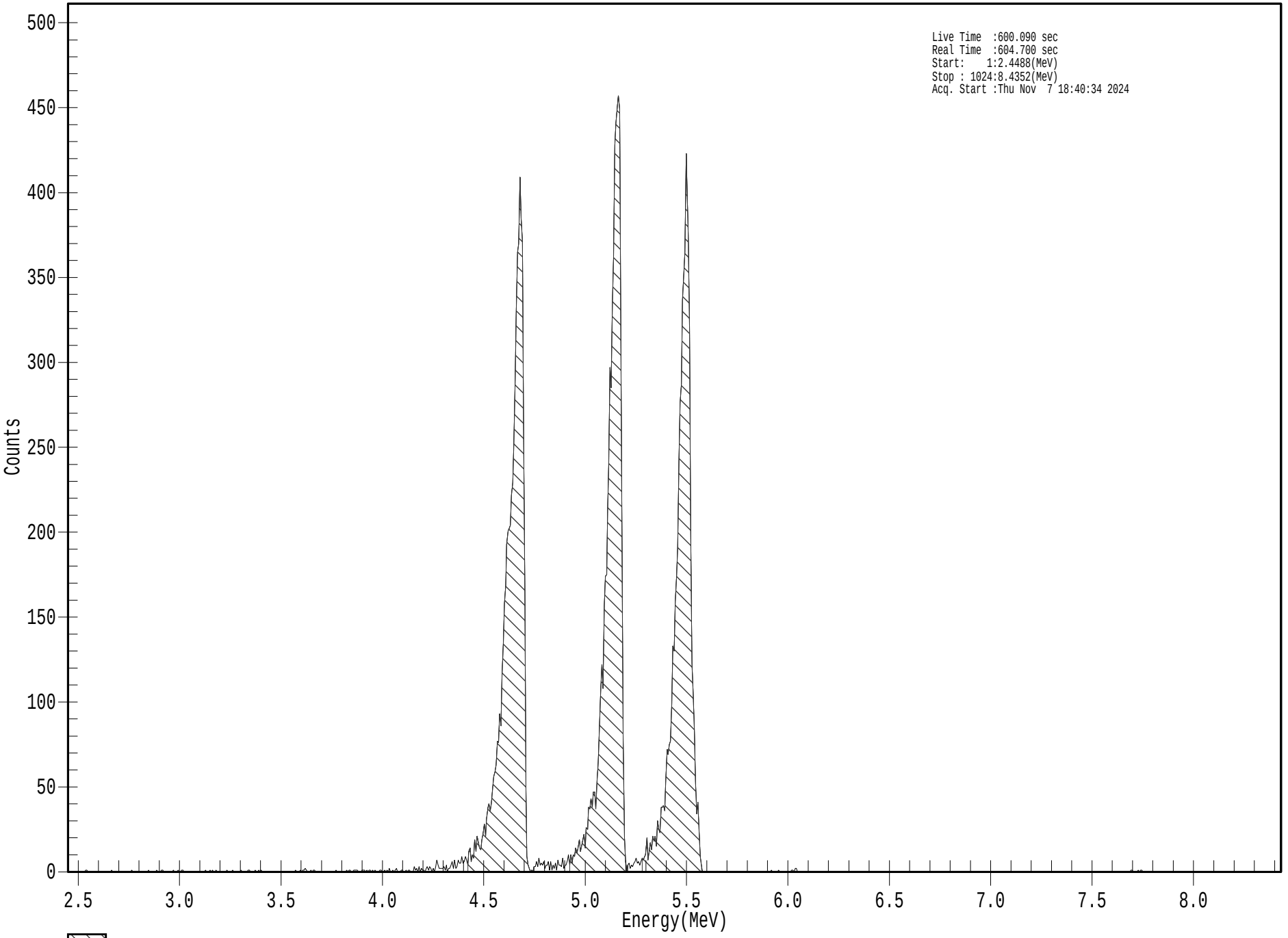
Detector Name: A_3_1B
Sample Title: DET 70 SC 110724
Peak Analysis Performed on: 11/13/2024 2:33:24 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

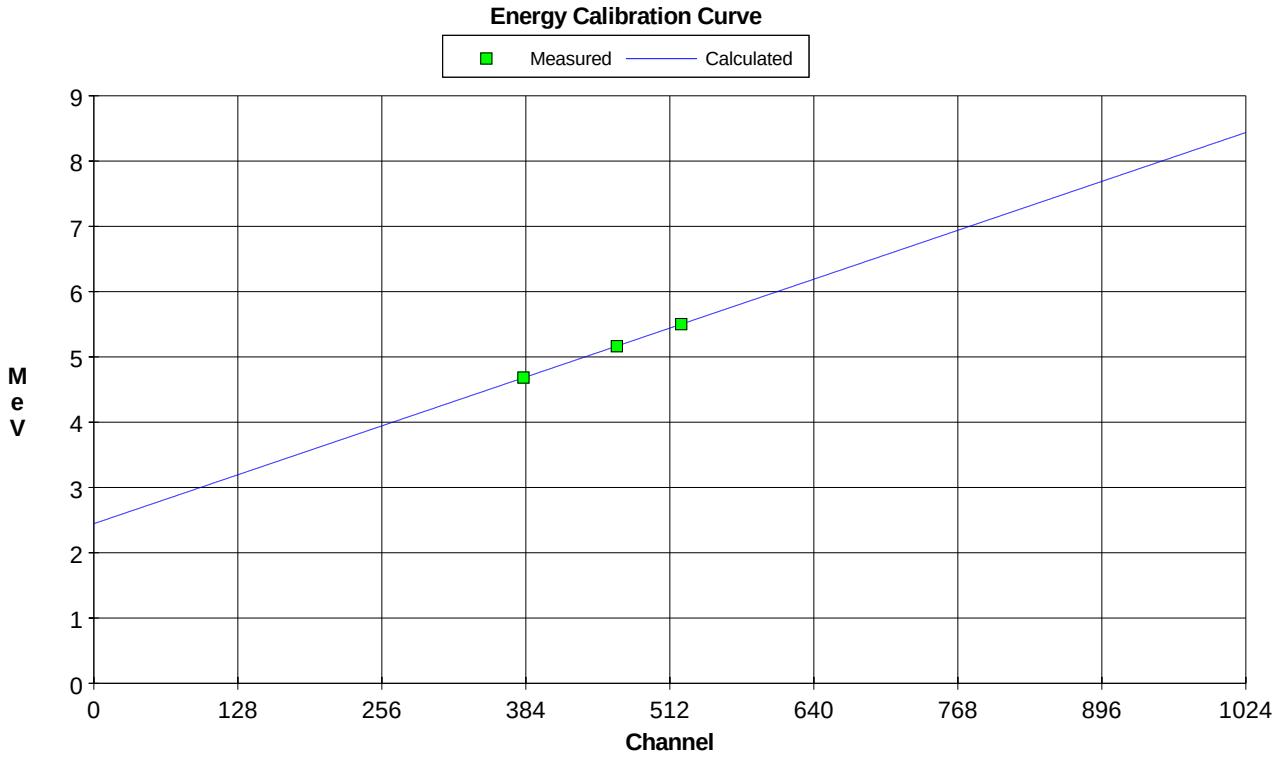
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	338-	394	374.83	4636.39	67.76	6.09E+03	78.01	0.00E+00
2	424-	473	458.73	5127.36	64.84	6.13E+03	78.31	0.00E+00
3	485-	535	517.96	5473.94	61.73	5.70E+03	75.51	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

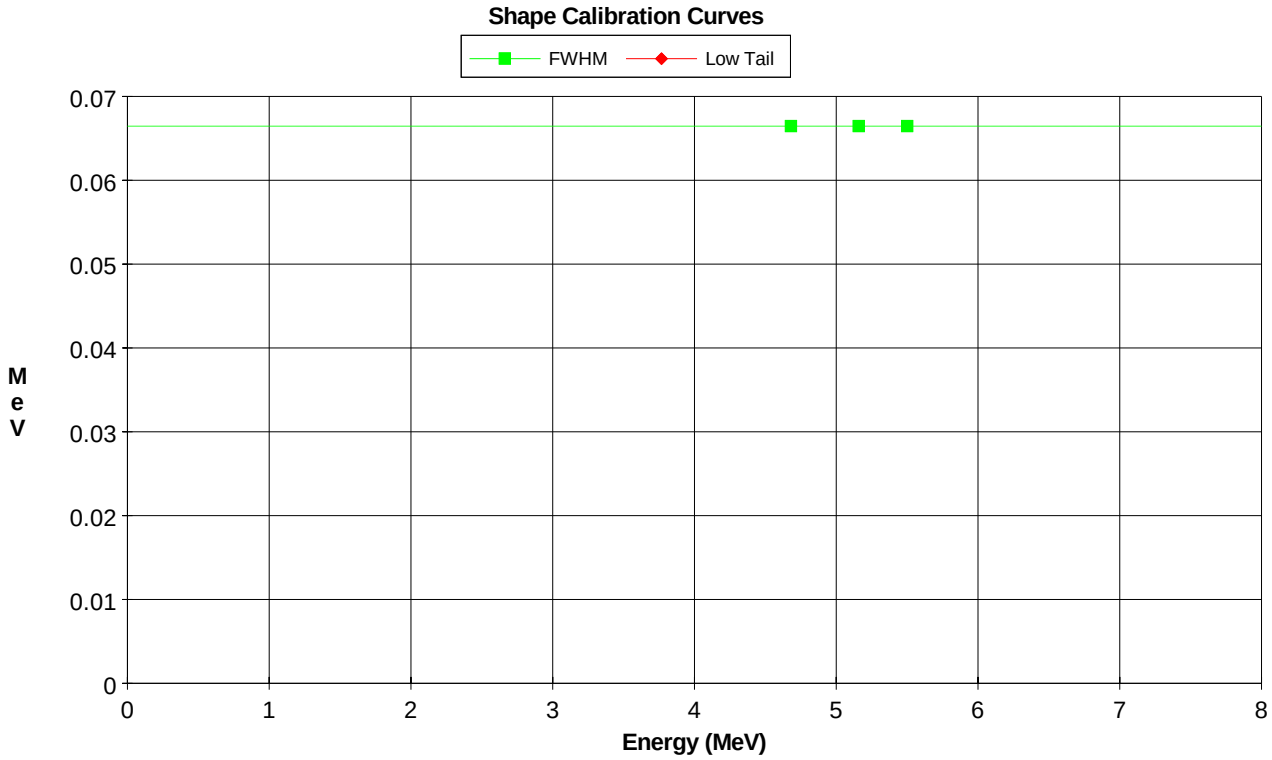
Errors quoted at 1.000 sigma

70.CNF


Live Time :600.090 sec
Real Time :604.700 sec
Start: 1:2.4488(MeV)
Stop : 1024:8.4352(MeV)
Acq. Start :Thu Nov 7 18:40:34 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_1B
Energy = 2.443e+00 MeV +5.852e-03*Ch
FWHM = 6.644e-02 MeV



Datasource: A_3_1B
Energy = 2.443e+00 MeV +5.852e-03*Ch
FWHM = 6.644e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\71\71.CNF

Report Generated On : 11/13/2024 2:34:03 PM

Sample Title : DET 71 SC 110724
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 7/5/2024 8:51:48 PM

Live Time : 600.0 seconds
Real Time : 602.8 seconds

Dead Time : 0.46 %

Energy Calibration Used Done On : 6/24/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

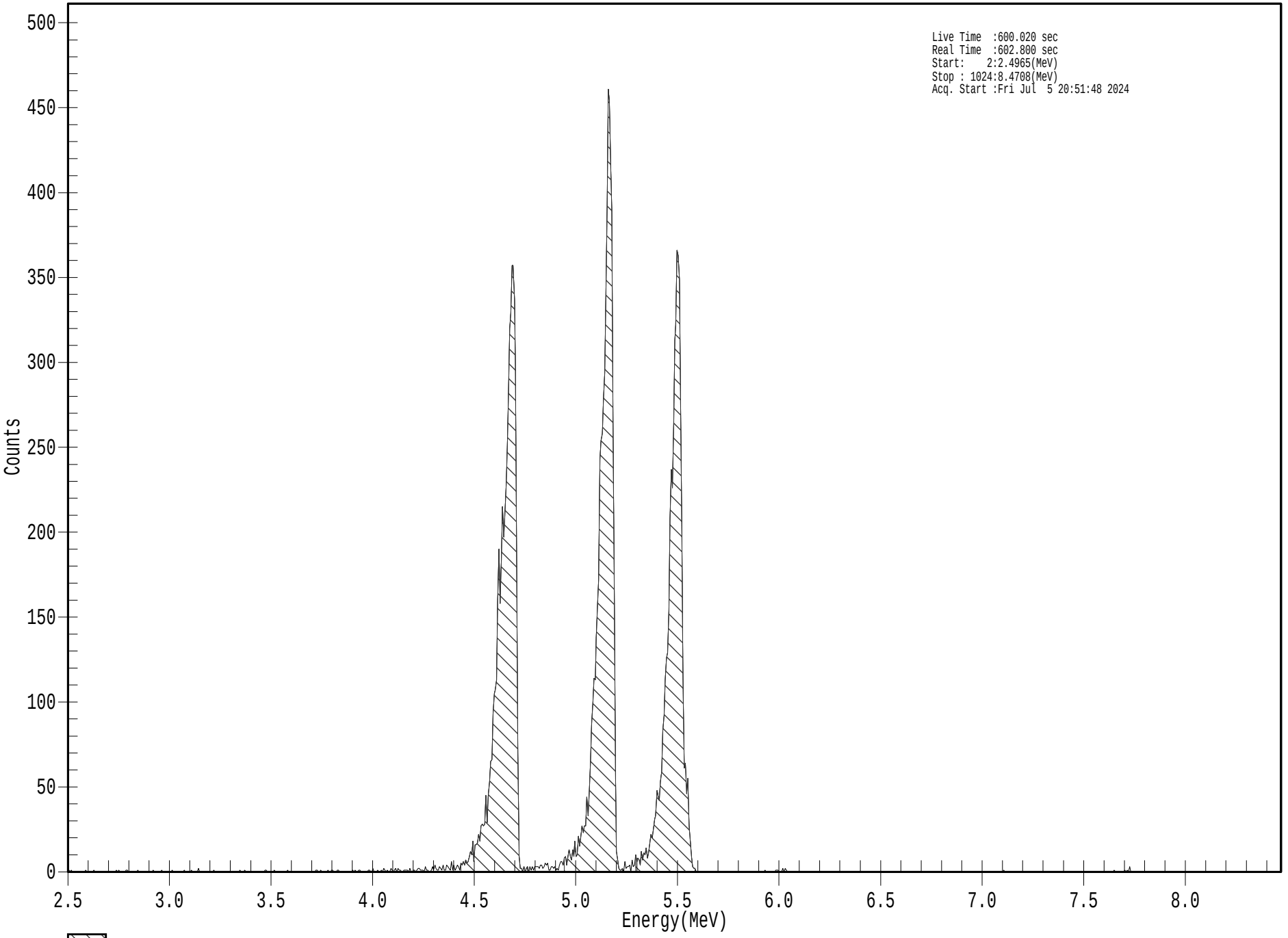
Detector Name: A_3_2A
Sample Title: DET 71 SC 110724
Peak Analysis Performed on: 11/13/2024 2:34:03 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

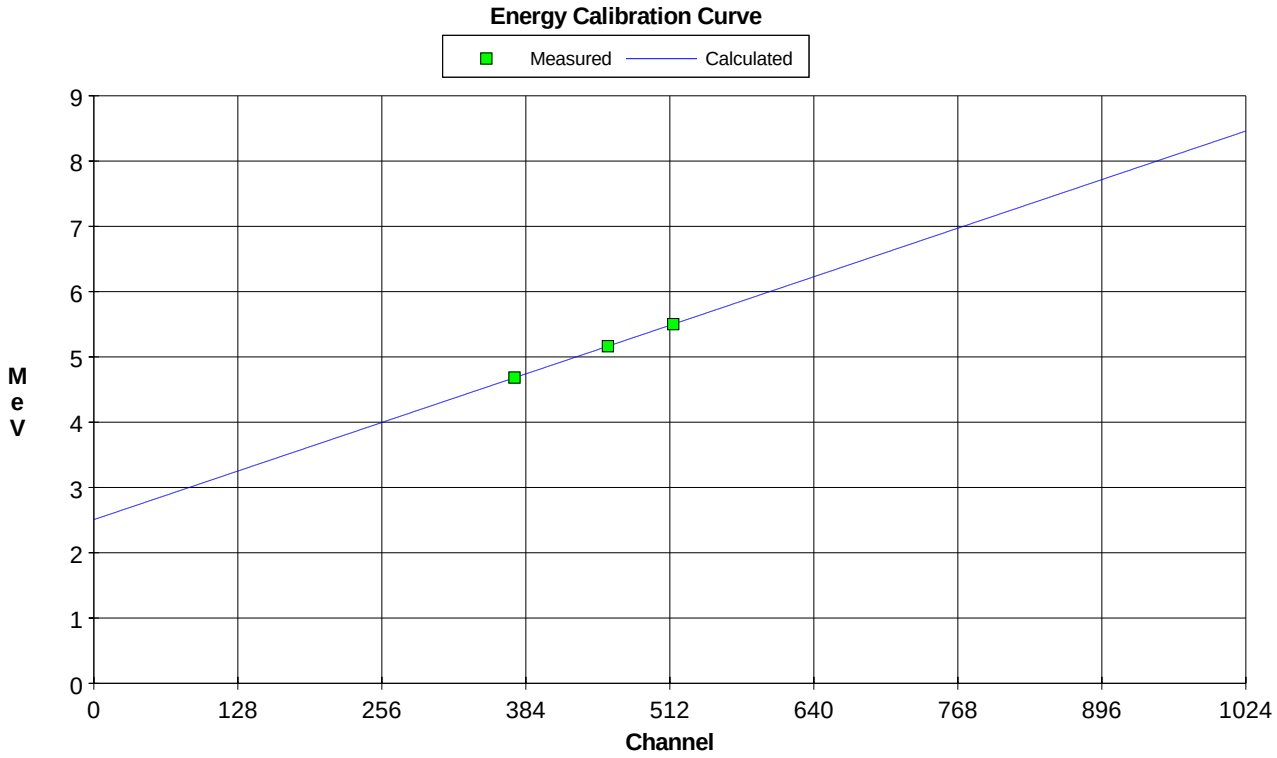
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	333-	389	369.85	4646.87	77.01	5.35E+03	73.11	0.00E+00
2	420-	469	453.06	5133.28	67.10	5.64E+03	75.09	0.00E+00
3	480-	530	511.69	5476.01	62.26	4.73E+03	68.75	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

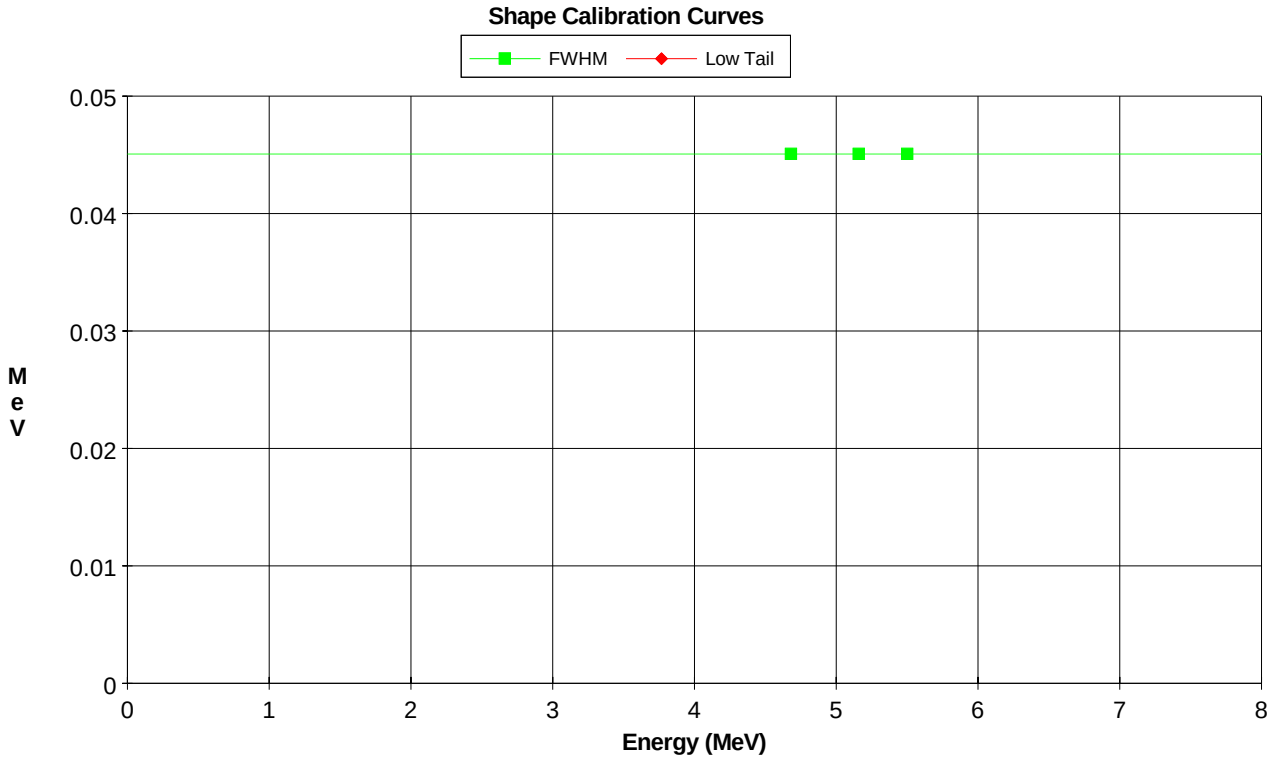
Errors quoted at 1.000 sigma

71.CNF


Live Time :600.020 sec
Real Time :602.800 sec
Start: 2:2.4965(MeV)
Stop : 1024:8.4708(MeV)
Acq. Start :Fri Jul 5 20:51:48 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_2A
Energy = 2.505e+00 MeV +5.813e-03*Ch
FWHM = 4.505e-02 MeV



Datasource: A_3_2A
Energy = 2.505e+00 MeV +5.813e-03*Ch
FWHM = 4.505e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\72\72.CNF

Report Generated On : 11/13/2024 2:34:25 PM

Sample Title : DET 72 SC 110724
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 7/3/2024 11:42:30 PM

Live Time : 600.0 seconds
Real Time : 602.8 seconds

Dead Time : 0.46 %

Energy Calibration Used Done On : 6/24/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

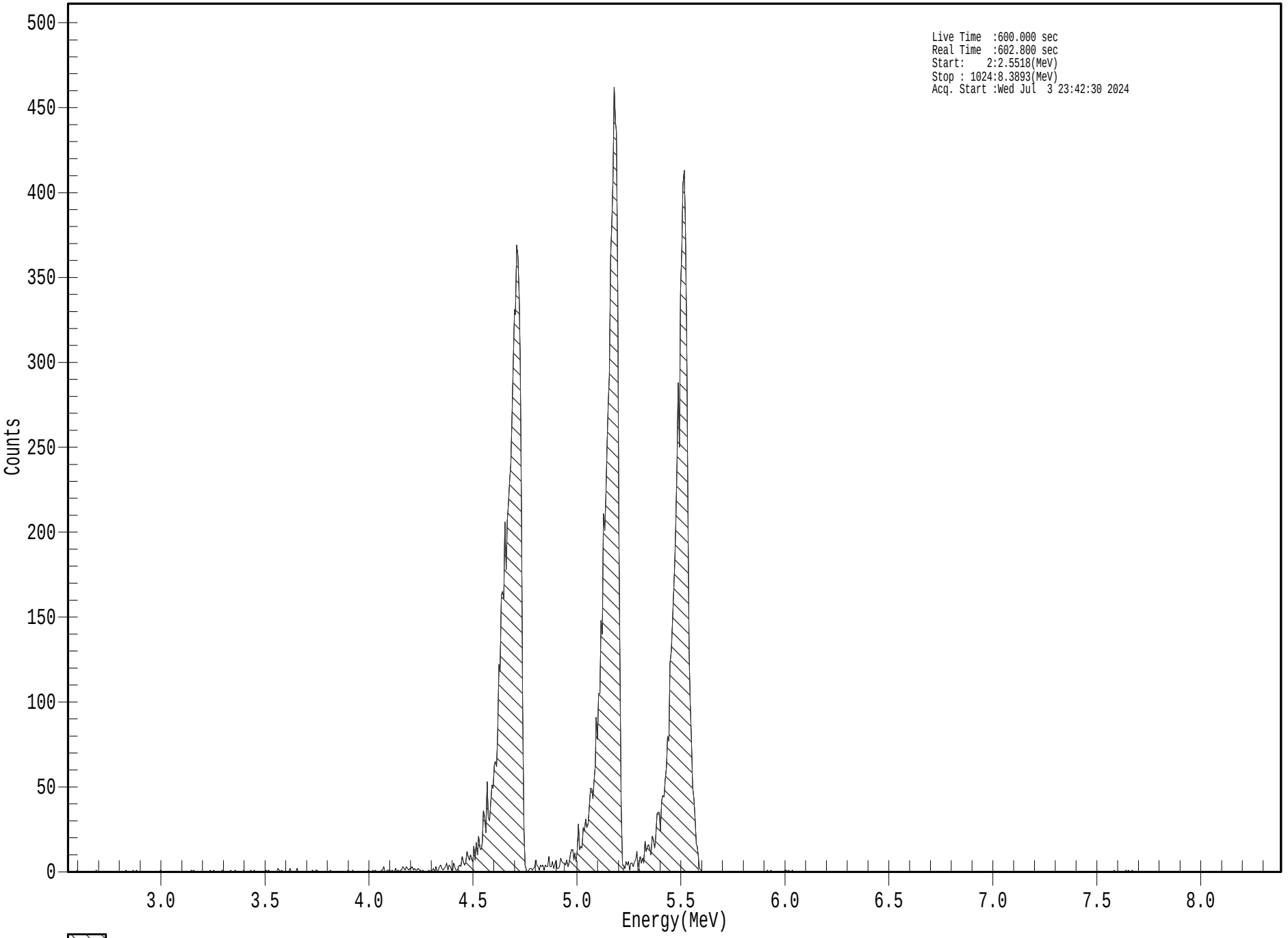
Detector Name: A_3_2B
Sample Title: DET 72 SC 110724
Peak Analysis Performed on: 11/13/2024 2:34:25 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

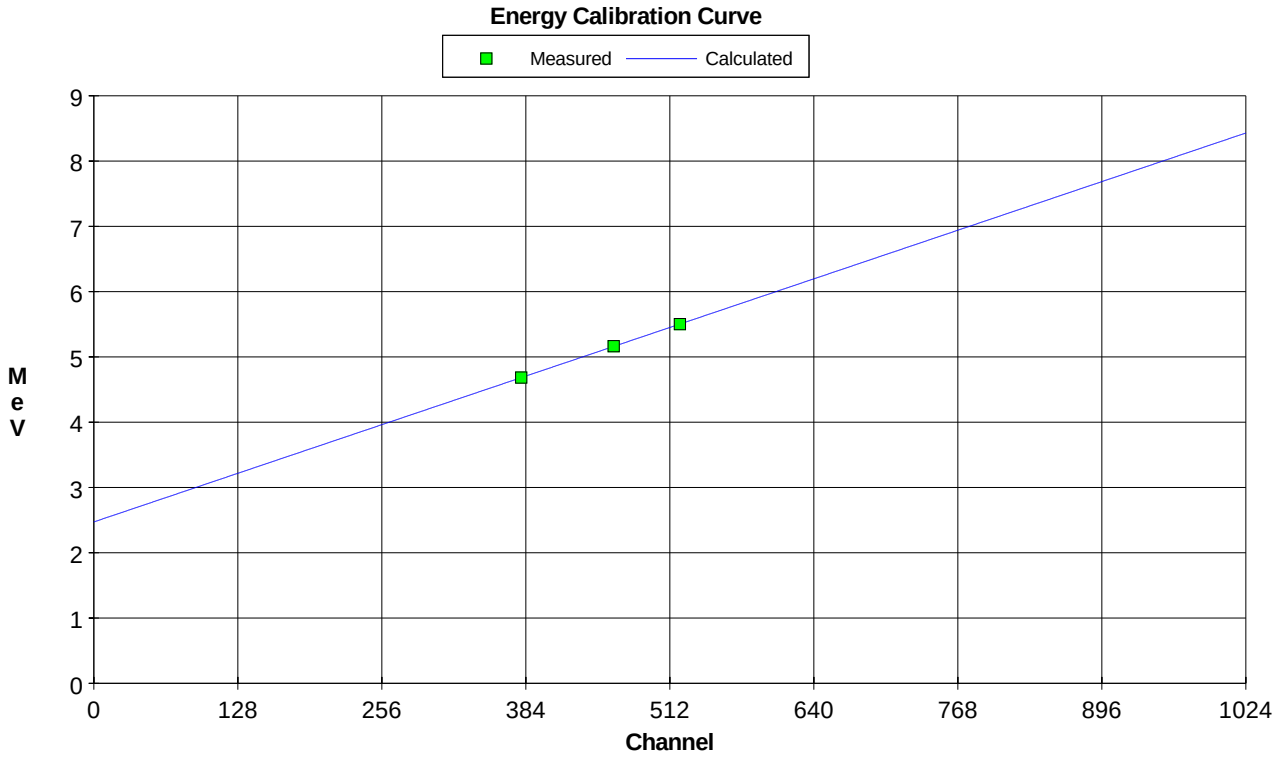
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	331-	388	373.31	4672.63	74.08	5.75E+03	75.82	0.00E+00
2	420-	470	457.01	5150.72	59.94	5.92E+03	76.91	0.00E+00
3	482-	533	516.34	5489.59	57.58	5.37E+03	73.27	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

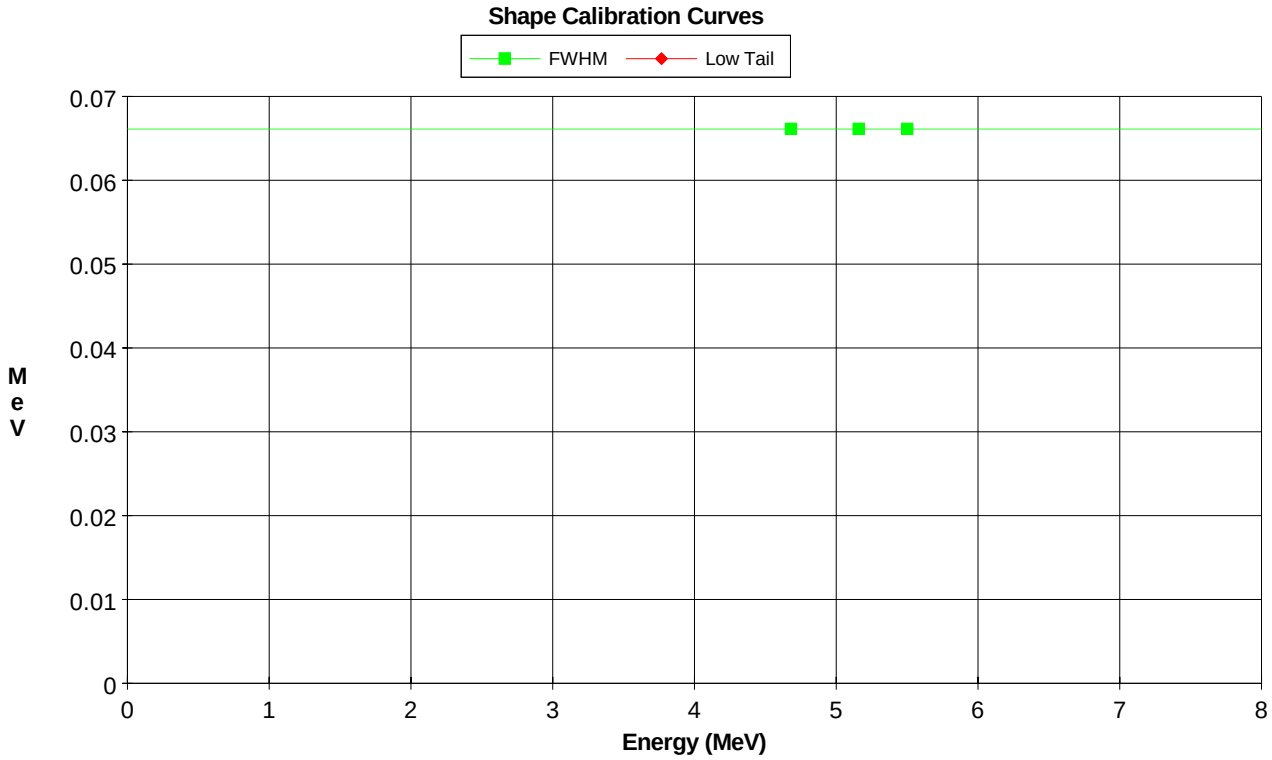
Errors quoted at 1.000 sigma

72.CNF


Live Time :600.000 sec
Real Time :602.800 sec
Start: 2:2.5518(MeV)
Stop : 1024:8.3893(MeV)
Acq. Start :Wed Jul 3 23:42:30 2024
Counts
0
50
100
150
200
250
300
350
400
450
500
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1



Datasource: A_3_2B
Energy = 2.470e+00 MeV +5.818e-03*Ch
FWHM = 6.609e-02 MeV



Datasource: A_3_2B
Energy = 2.470e+00 MeV +5.818e-03*Ch
FWHM = 6.609e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: A_3_4A

Report Generated On : 2/18/2025 2:35:43 PM

Sample Title : DET 75 SC 021825
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 2/18/2025 2:19:15 PM

Live Time : 600.1 seconds
Real Time : 600.7 seconds

Dead Time : 0.10 %

Energy Calibration Used Done On : 2/18/2025
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

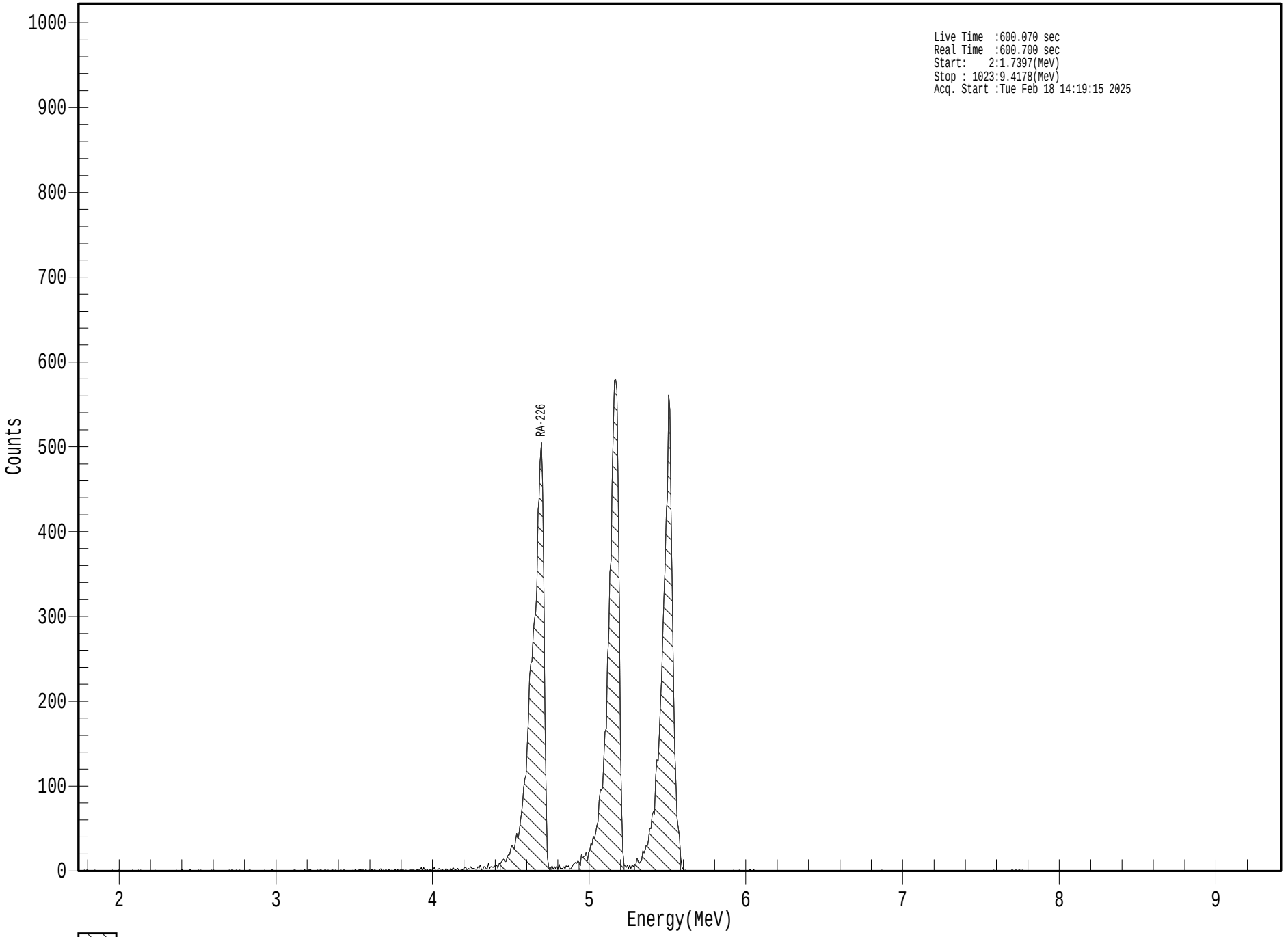
Detector Name: A_3_4A
Sample Title: DET 75 SC 021825
Peak Analysis Performed on: 2/18/2025 2:35:43 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

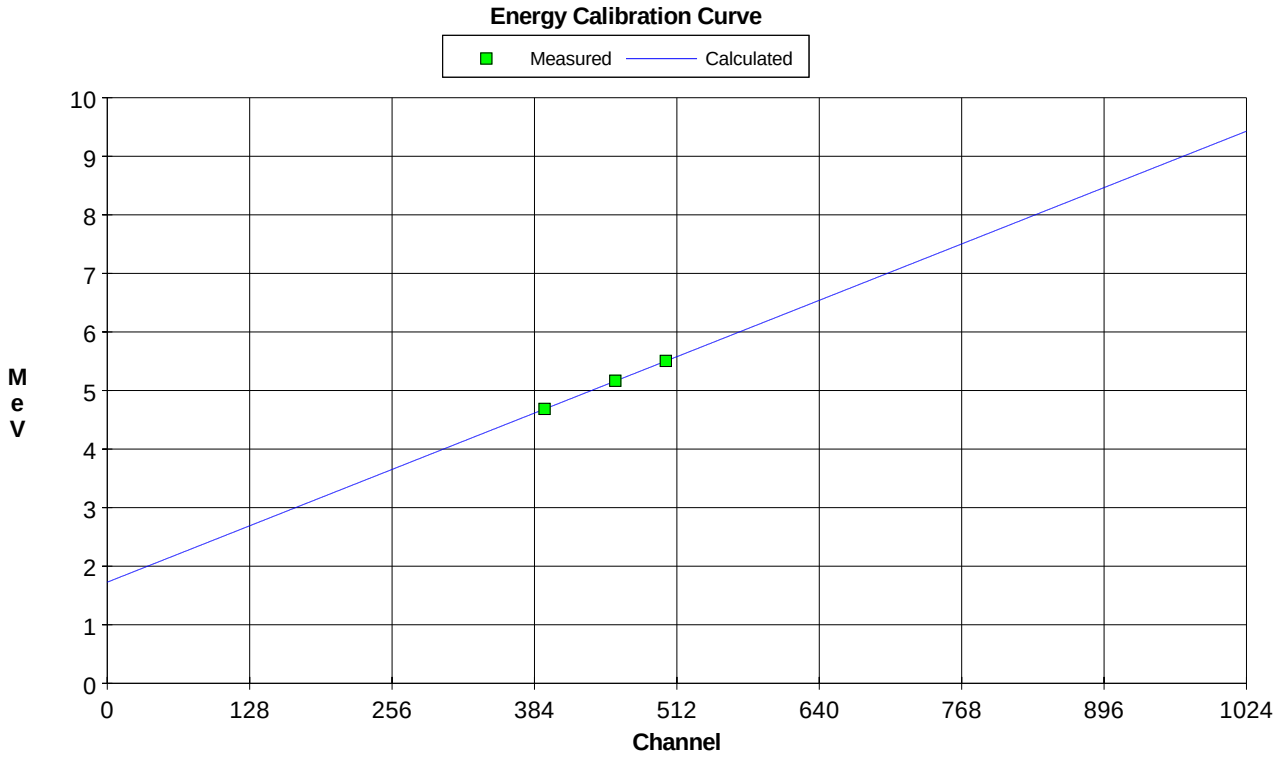
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	360-	403	389.31	4652.32	78.25	6.127E+03	78.28	0.000E+00
2	427-	465	454.13	5139.80	67.70	6.277E+03	79.23	0.000E+00
3	474-	513	500.24	5486.57	63.15	5.828E+03	76.34	0.000E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

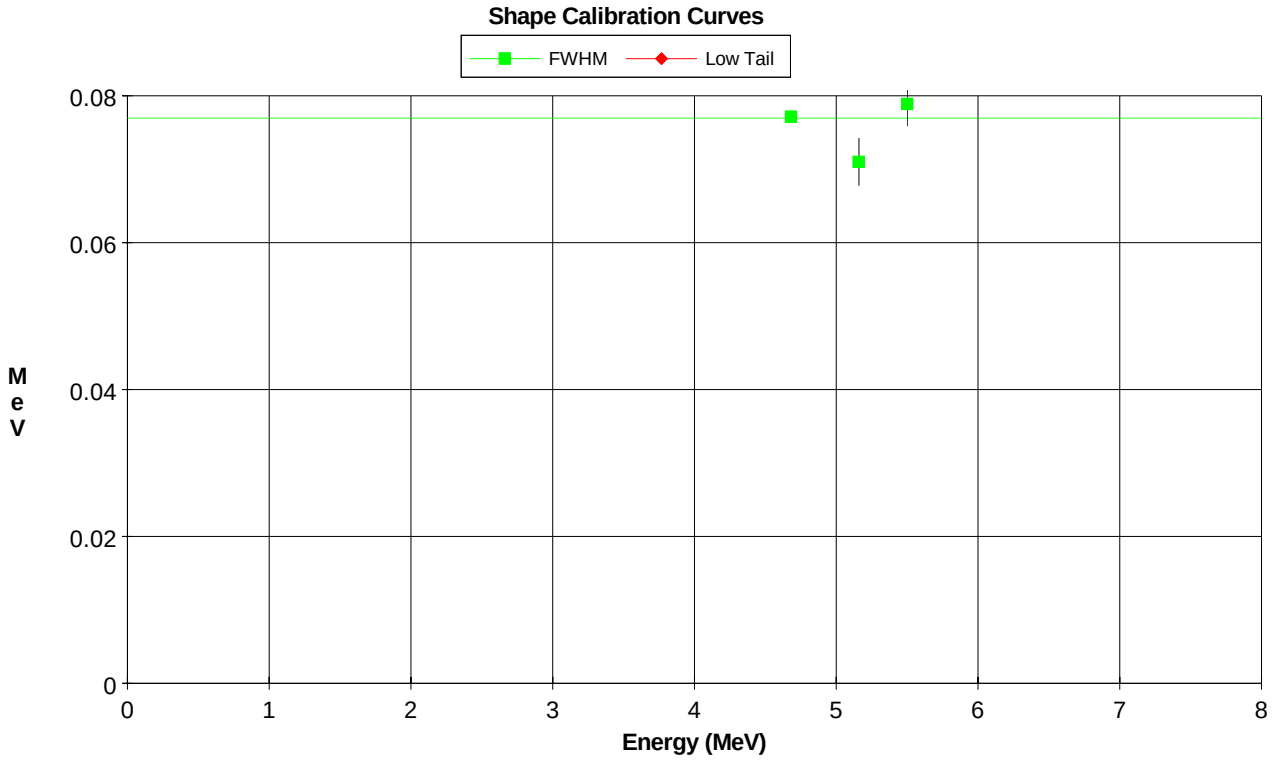
Errors quoted at 1.000 sigma

Detector A_3_4A





Datasource: A_3_4A
Energy = 1.725e+00 MeV +7.520e-03*Ch
FWHM = 7.695e-02 MeV



Datasource: A_3_4A
Energy = 1.725e+00 MeV +7.520e-03*Ch
FWHM = 7.695e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\76\76.CNF

Report Generated On : 11/13/2024 2:35:05 PM

Sample Title : DET 76 SC 110724
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 11/7/2024 6:40:48 PM

Live Time : 600.1 seconds
Real Time : 604.7 seconds

Dead Time : 0.77 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

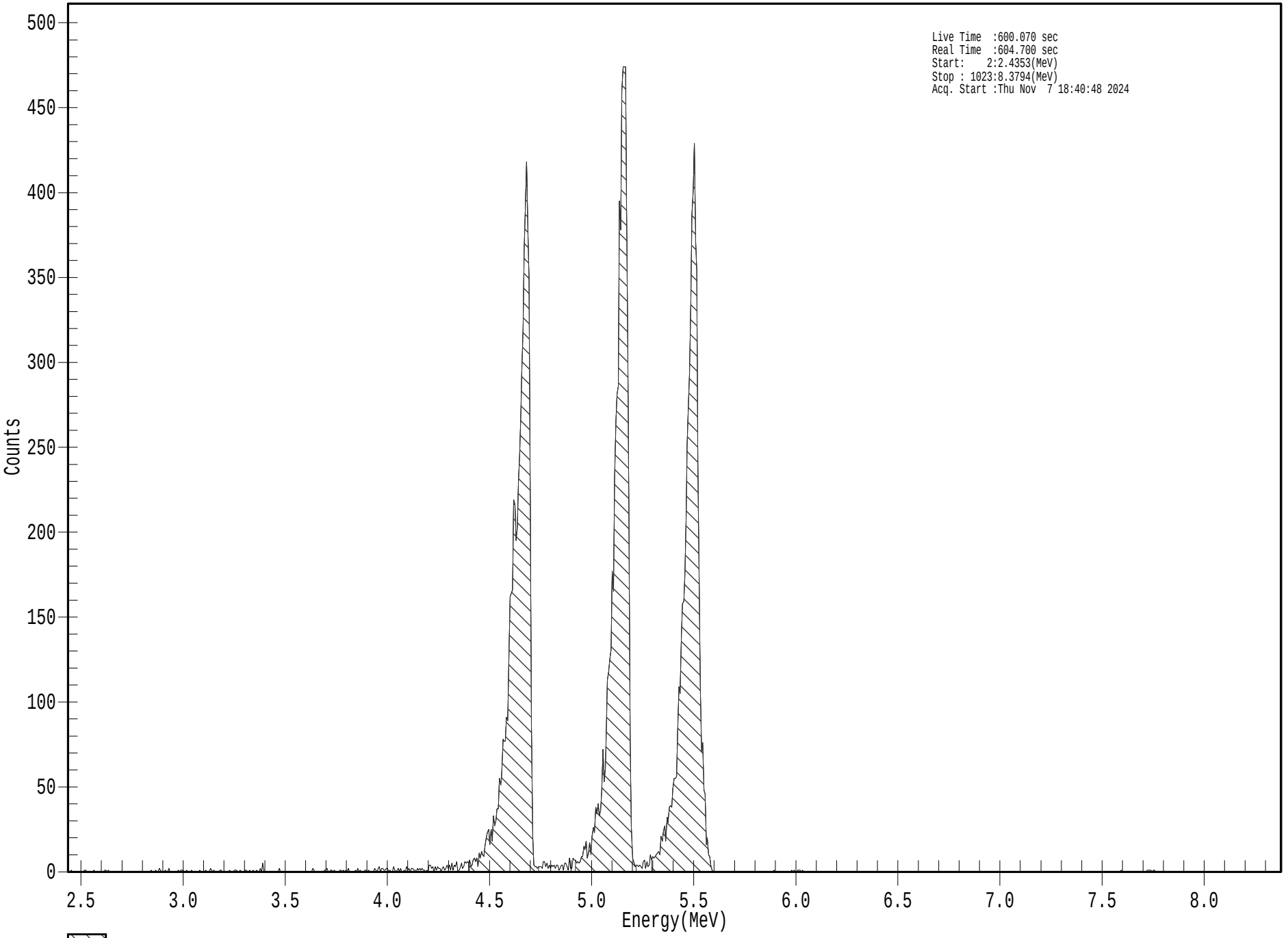
Detector Name: A_3_4B
Sample Title: DET 76 SC 110724
Peak Analysis Performed on: 11/13/2024 2:35:05 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

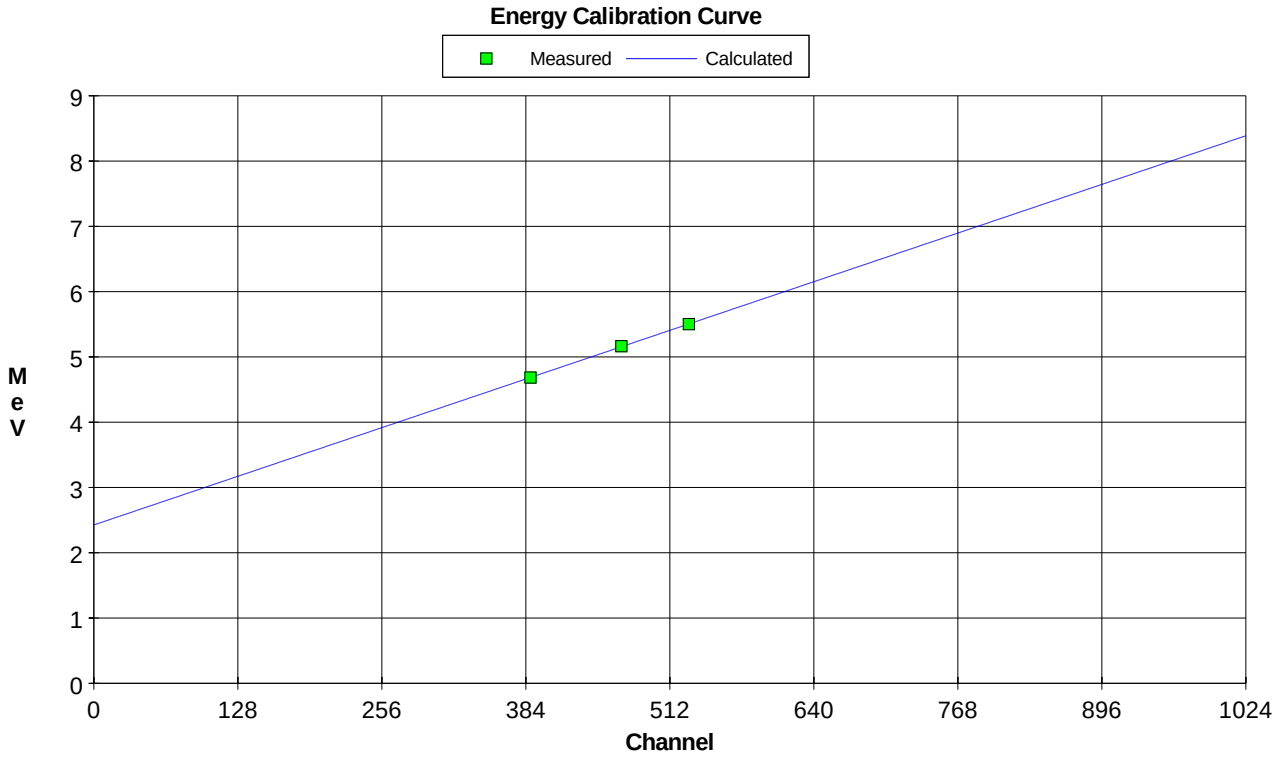
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	339-	398	380.45	4638.56	62.93	6.03E+03	77.64	0.00E+00
2	429-	480	464.88	5130.12	67.52	6.30E+03	79.36	0.00E+00
3	493-	545	524.65	5478.07	59.81	5.63E+03	75.06	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

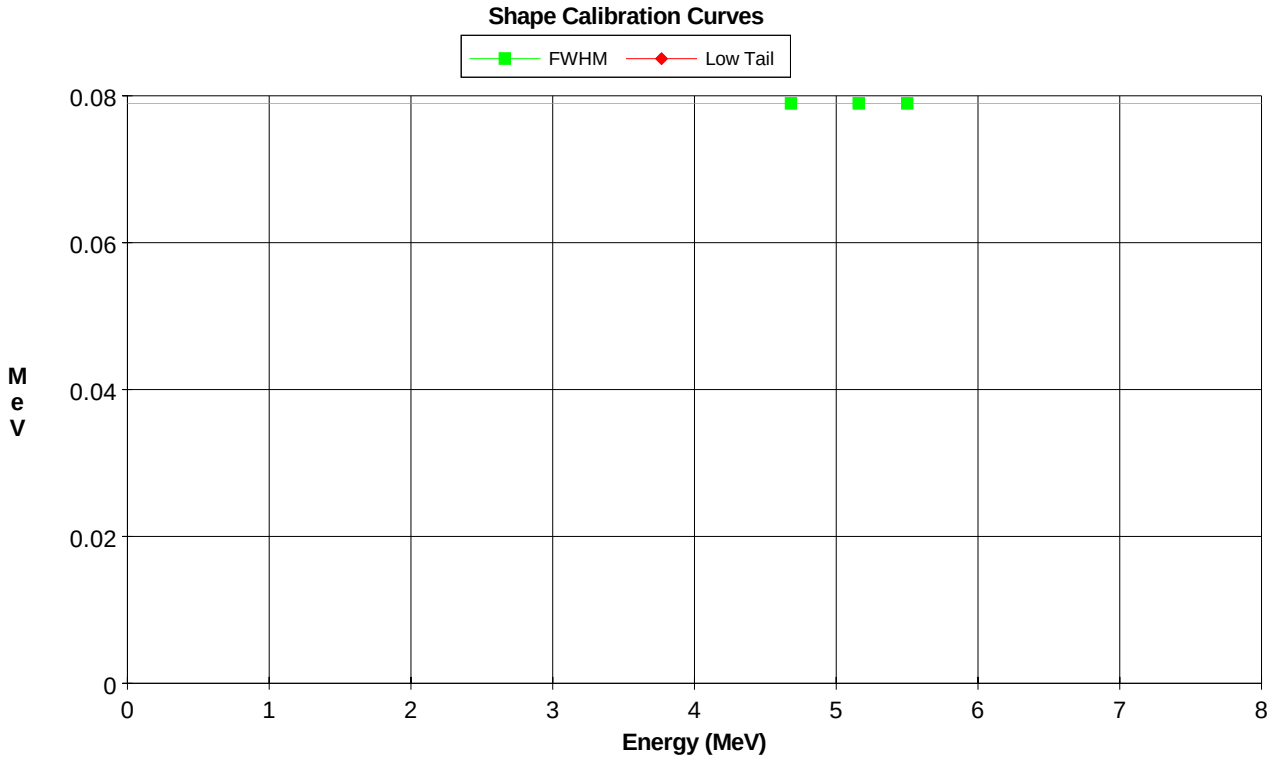
Errors quoted at 1.000 sigma

76.CNF


Live Time :600.070 sec
Real Time :604.700 sec
Start: 2:2.4353(MeV)
Stop : 1023:8.3794(MeV)
Acq. Start :Thu Nov 7 18:40:48 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_4B
Energy = 2.424e+00 MeV +5.822e-03*Ch
FWHM = 7.894e-02 MeV



Datasource: A_3_4B
Energy = 2.424e+00 MeV +5.822e-03*Ch
FWHM = 7.894e-02 MeV

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\77\77.CNF

Report Generated On             : 11/13/2024  2:35:24 PM

Sample Title                    : DET 77 SC 110724
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 11/7/2024   6:40:54 PM

Live Time                       :      600.1 seconds
Real Time                       :      604.7 seconds

Dead Time                       :   0.76 %


              Energy Calibration Used Done On       : 11/7/2024
              Efficiency Calibration Used Done On   : 11/7/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

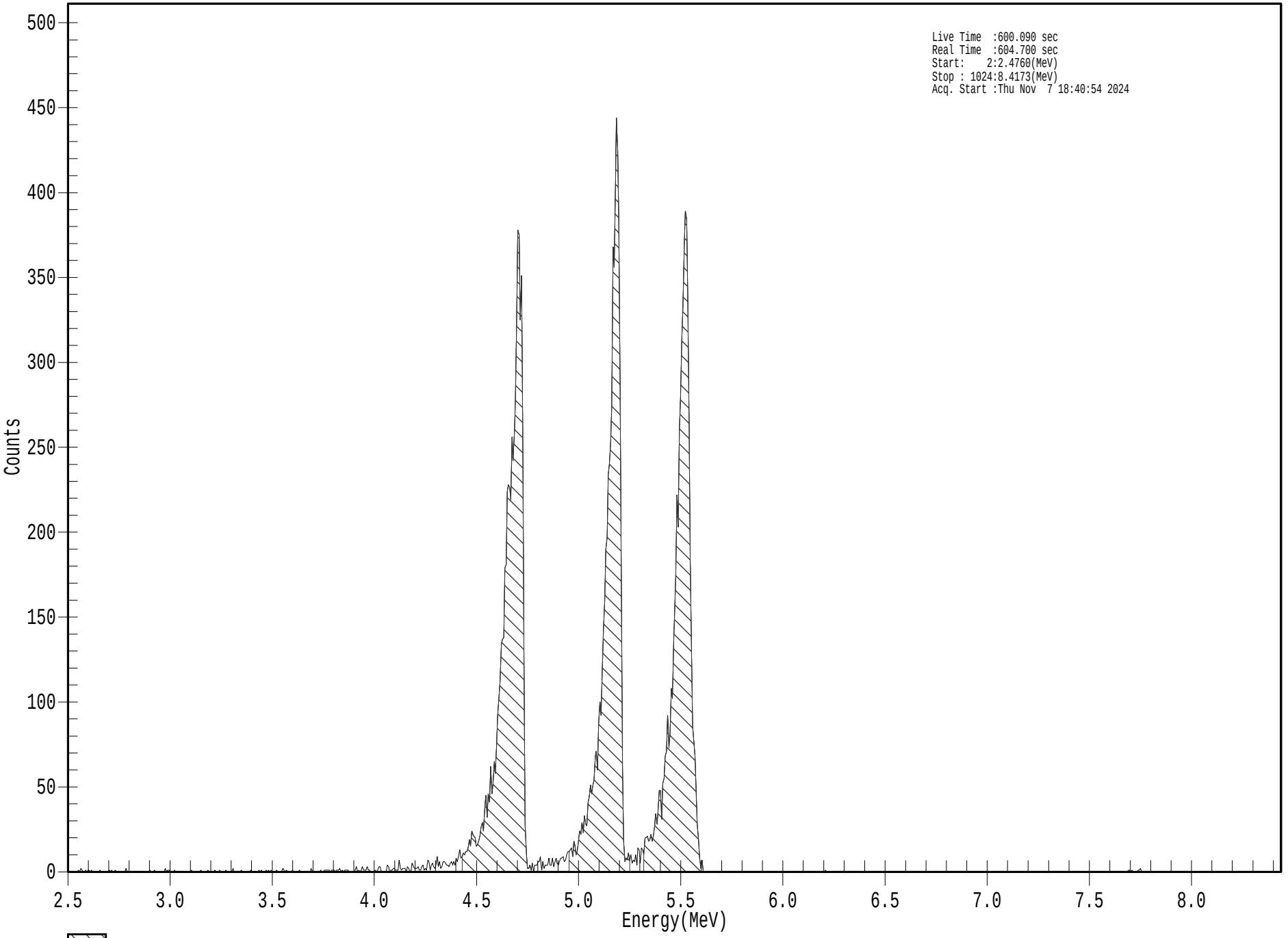
Detector Name: A_3_5A
Sample Title: DET 77 SC 110724
Peak Analysis Performed on: 11/13/2024 2:35:24 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

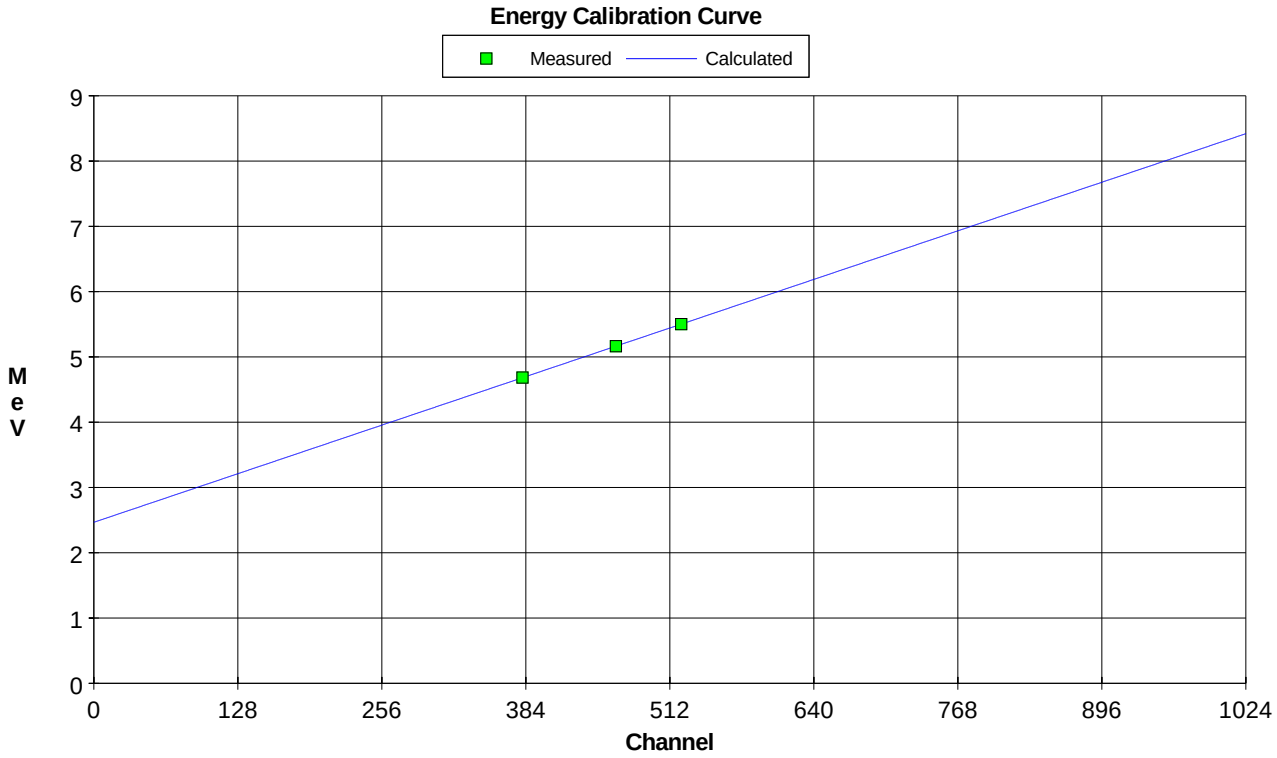
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	334-	392	373.56	4636.03	83.50	6.10E+03	78.11	0.00E+00
2	424-	475	458.02	5126.99	63.54	5.85E+03	76.47	0.00E+00
3	487-	539	517.28	5471.49	66.52	5.60E+03	74.80	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

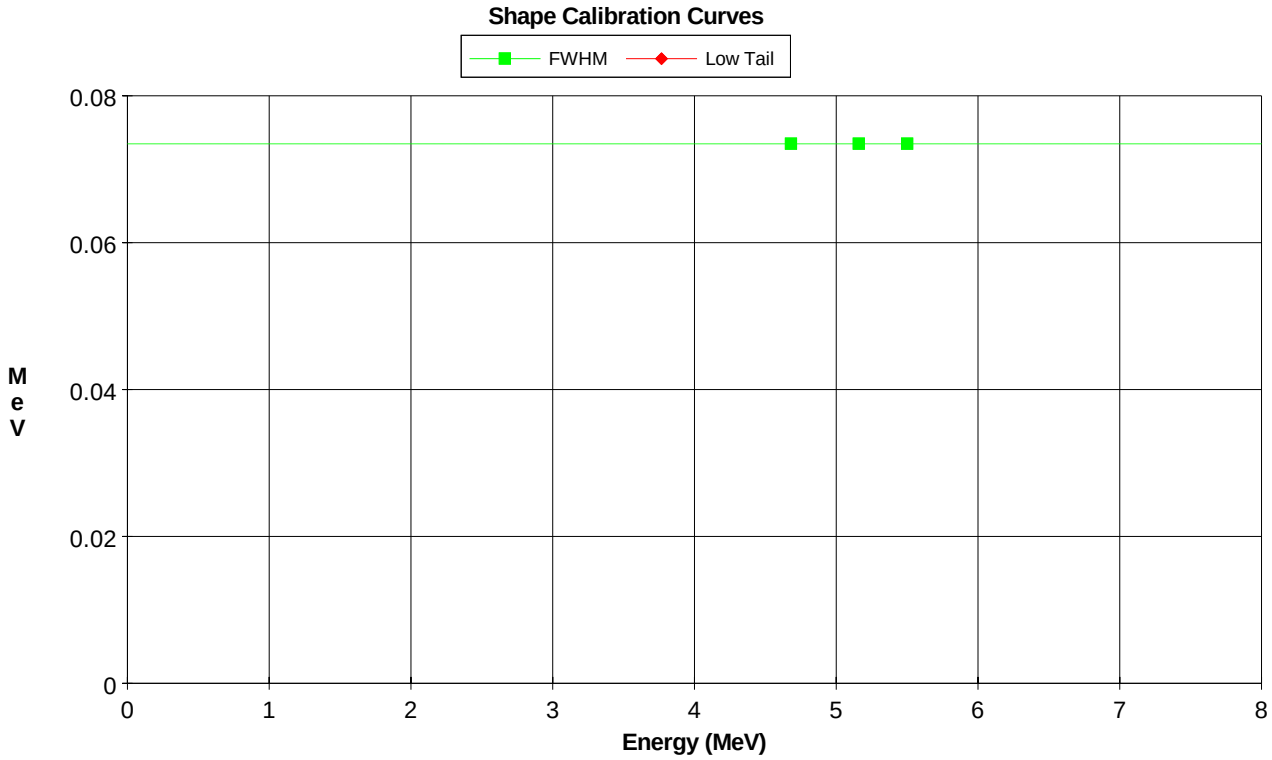
Errors quoted at 1.000 sigma

77.CNF


Live Time :600.090 sec
Real Time :604.700 sec
Start: 2:2.4760(MeV)
Stop : 1024:8.4173(MeV)
Acq. Start :Thu Nov 7 18:40:54 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_5A
Energy = 2.464e+00 MeV +5.813e-03*Ch
FWHM = 7.344e-02 MeV



Datasource: A_3_5A
Energy = 2.464e+00 MeV +5.813e-03*Ch
FWHM = 7.344e-02 MeV

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\78\78.CNF

Report Generated On             : 11/13/2024  2:36:00 PM

Sample Title                    : DET 78 SC 110724
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 11/7/2024   6:41:03 PM

Live Time                       :      600.0 seconds
Real Time                       :      604.6 seconds

Dead Time                       :   0.76 %


              Energy Calibration Used Done On       : 11/7/2024
              Efficiency Calibration Used Done On   : 11/7/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

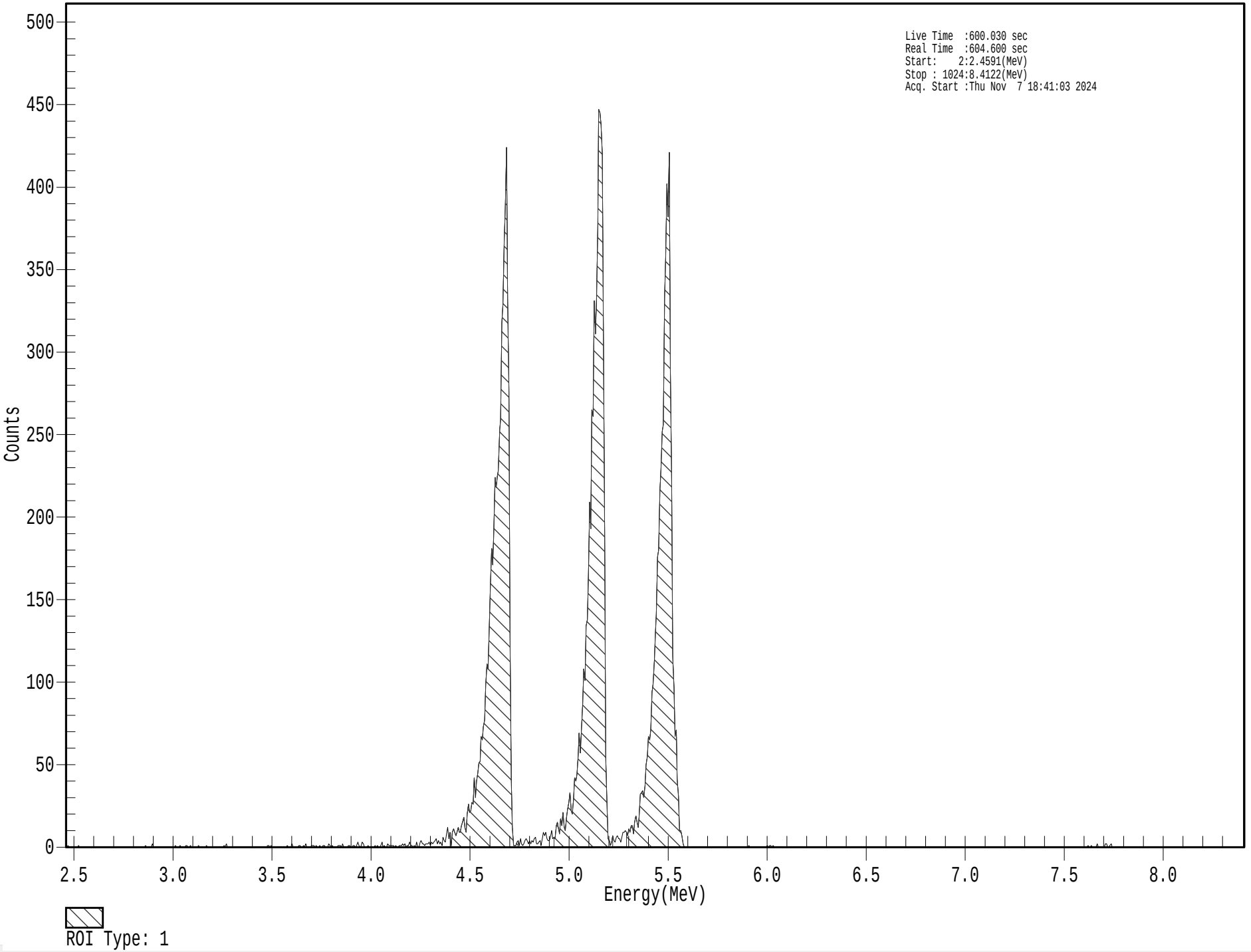
Detector Name: A_3_5B
Sample Title: DET 78 SC 110724
Peak Analysis Performed on: 11/13/2024 2:36:00 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

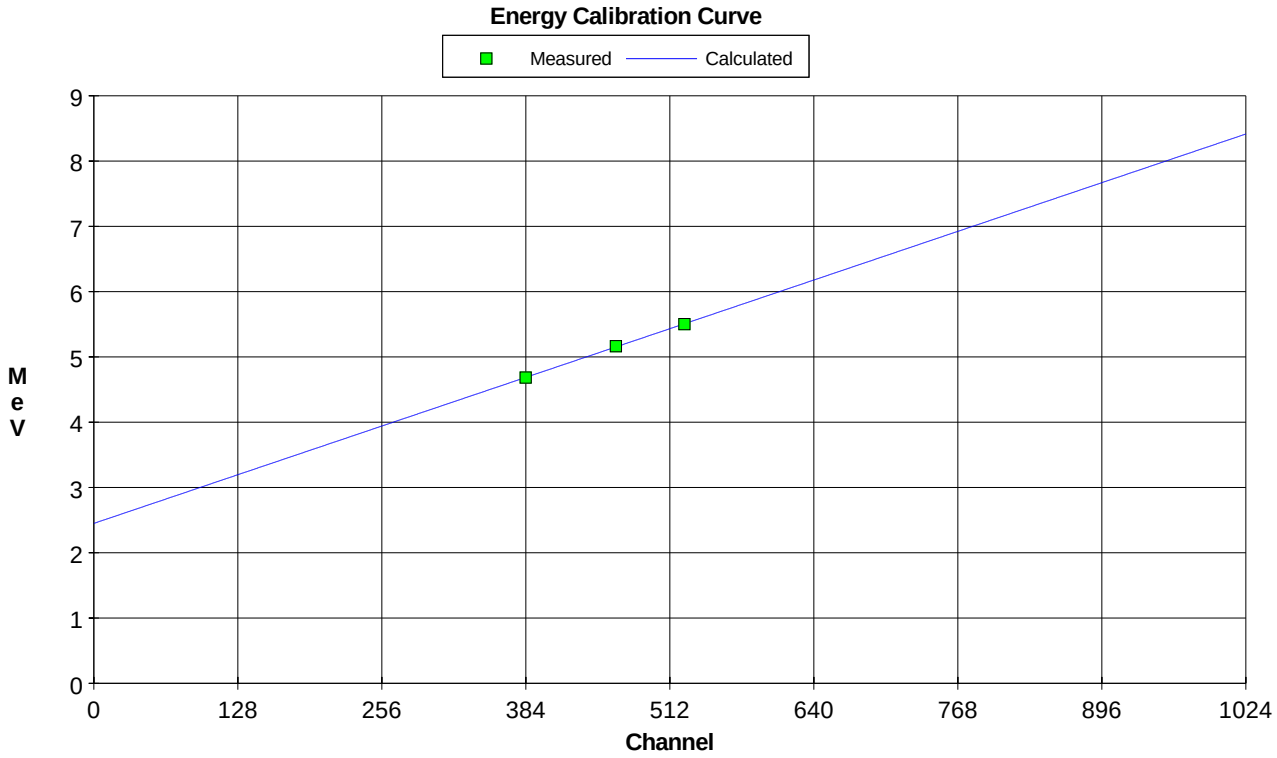
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	336-	394	375.54	4634.94	74.62	6.01E+03	77.55	0.00E+00
2	425-	476	459.50	5124.00	65.94	6.05E+03	77.79	0.00E+00
3	488-	539	519.16	5471.55	59.77	5.37E+03	73.27	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

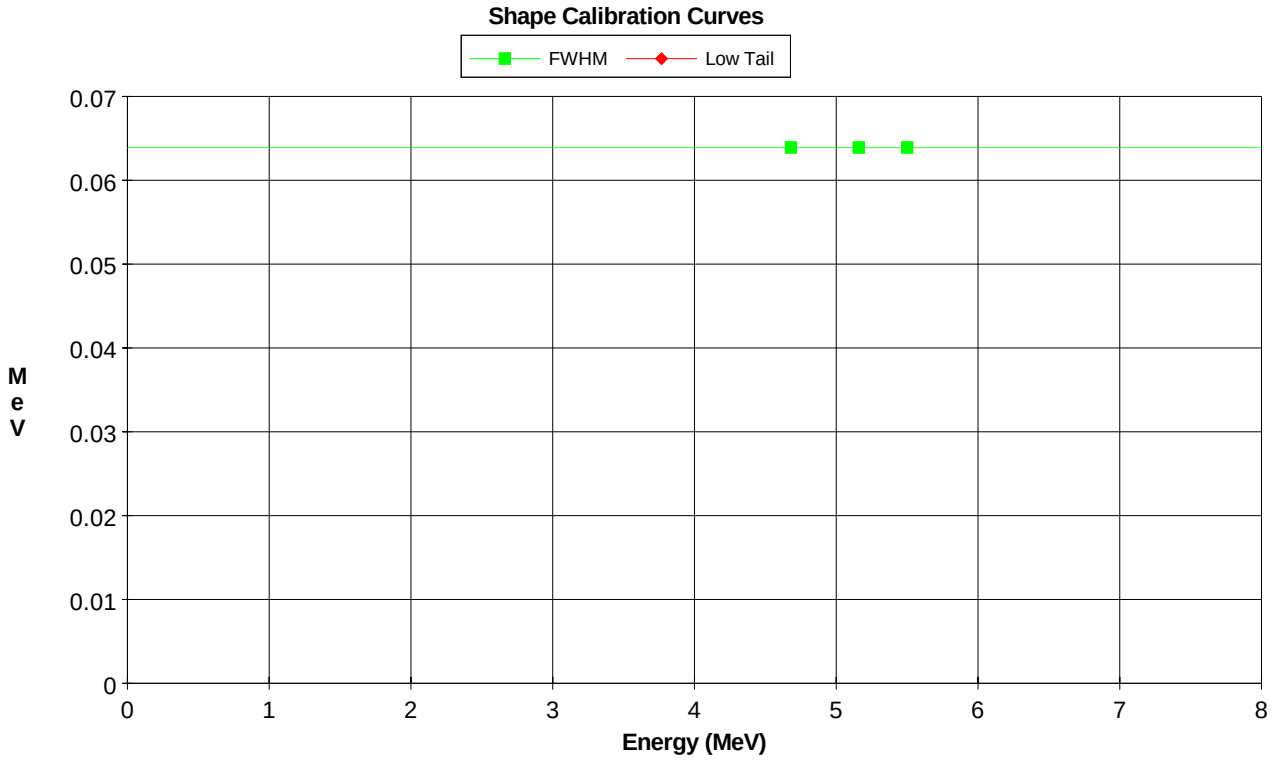
Errors quoted at 1.000 sigma

78.CNF


Live Time :600.030 sec
Real Time :604.600 sec
Start: 2:2.4591(MeV)
Stop : 1024:8.4122(MeV)
Acq. Start :Thu Nov 7 18:41:03 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_5B
Energy = 2.447e+00 MeV +5.825e-03*Ch
FWHM = 6.389e-02 MeV



Datasource: A_3_5B
Energy = 2.447e+00 MeV +5.825e-03*Ch
FWHM = 6.389e-02 MeV

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\79\79.CNF

Report Generated On : 11/13/2024 2:36:20 PM

Sample Title : DET 79 SC 110724
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 11/7/2024 6:53:59 PM

Live Time : 600.1 seconds
Real Time : 602.9 seconds

Dead Time : 0.47 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

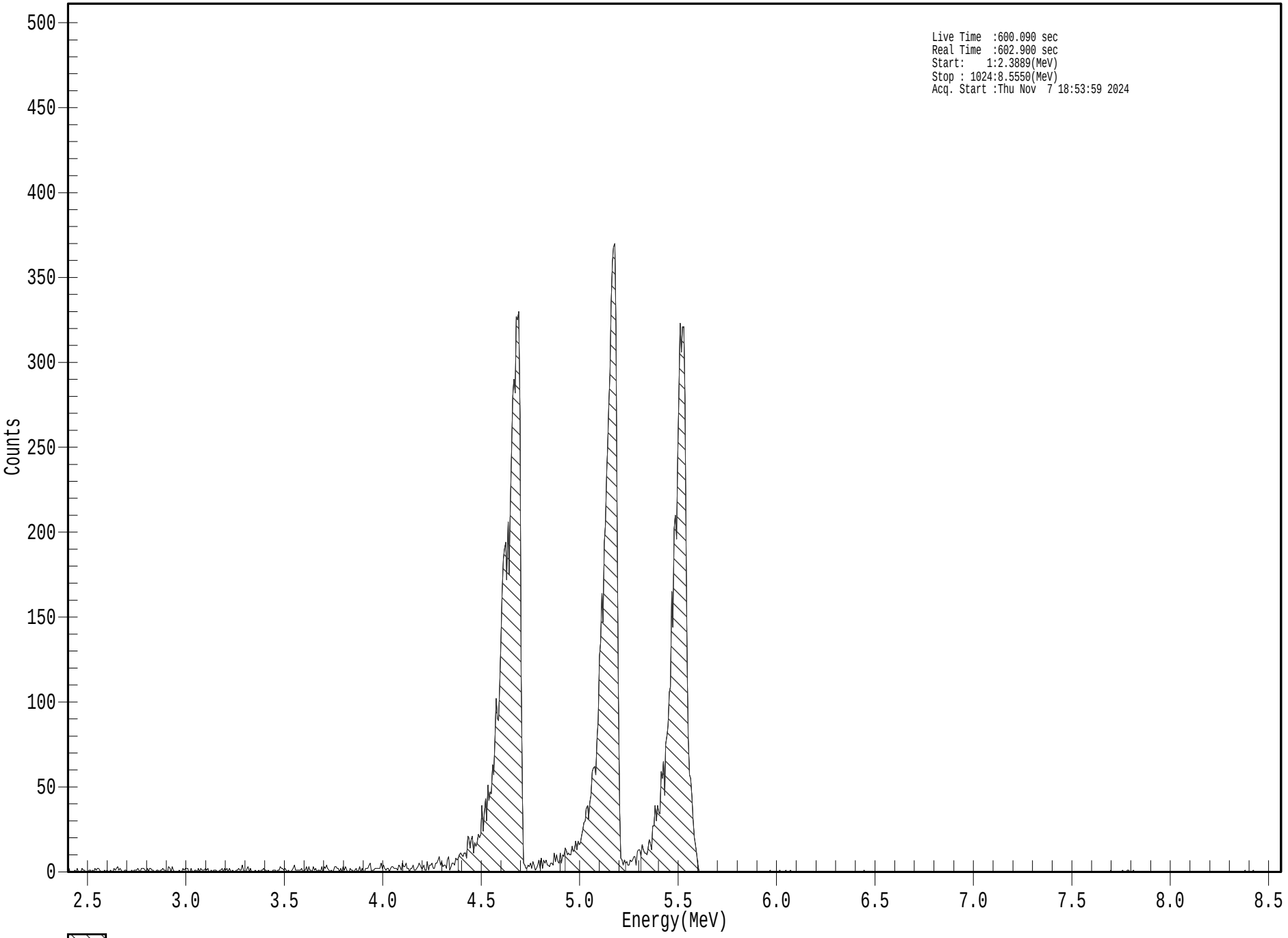
Detector Name: A_3_6A
Sample Title: DET 79 SC 110724
Peak Analysis Performed on: 11/13/2024 2:36:20 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

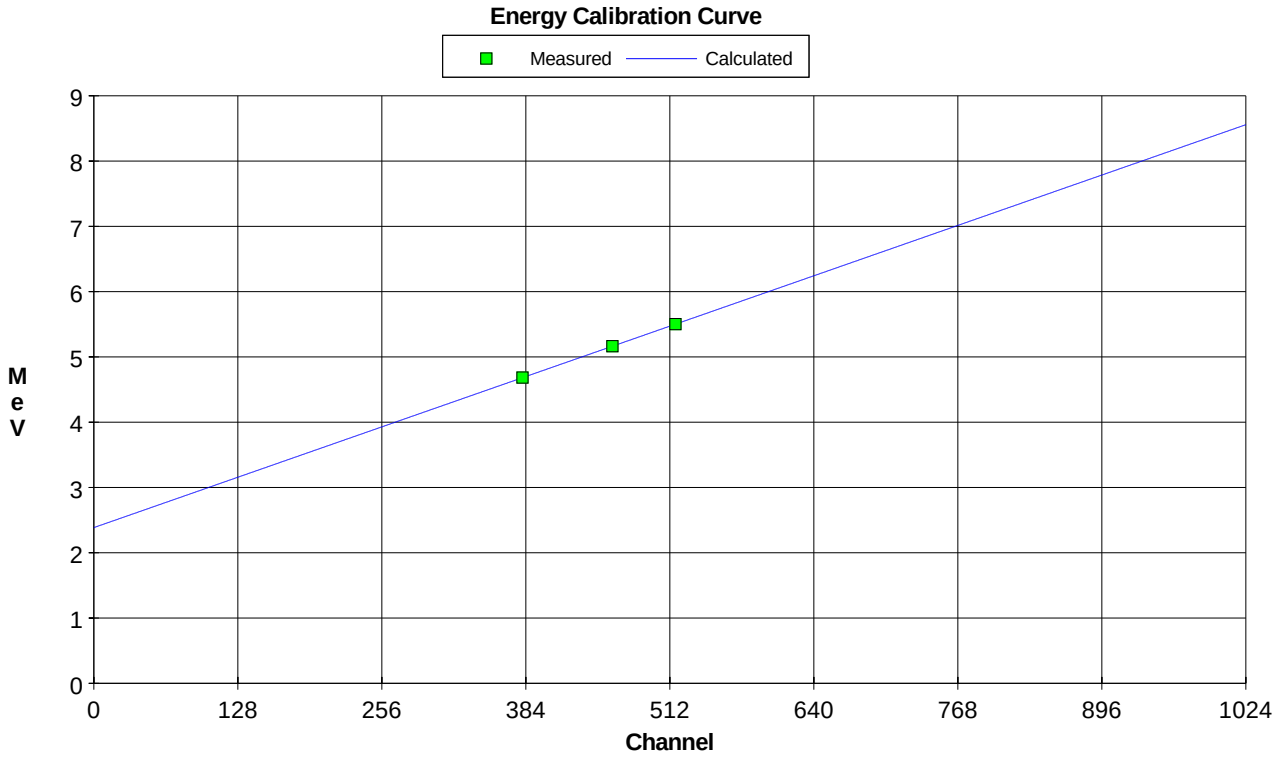
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	330-	388	370.80	4617.86	94.02	5.40E+03	73.49	0.00E+00
2	420-	471	454.74	5123.81	68.01	5.04E+03	70.96	0.00E+00
3	484-	536	514.07	5481.42	66.54	4.66E+03	68.26	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

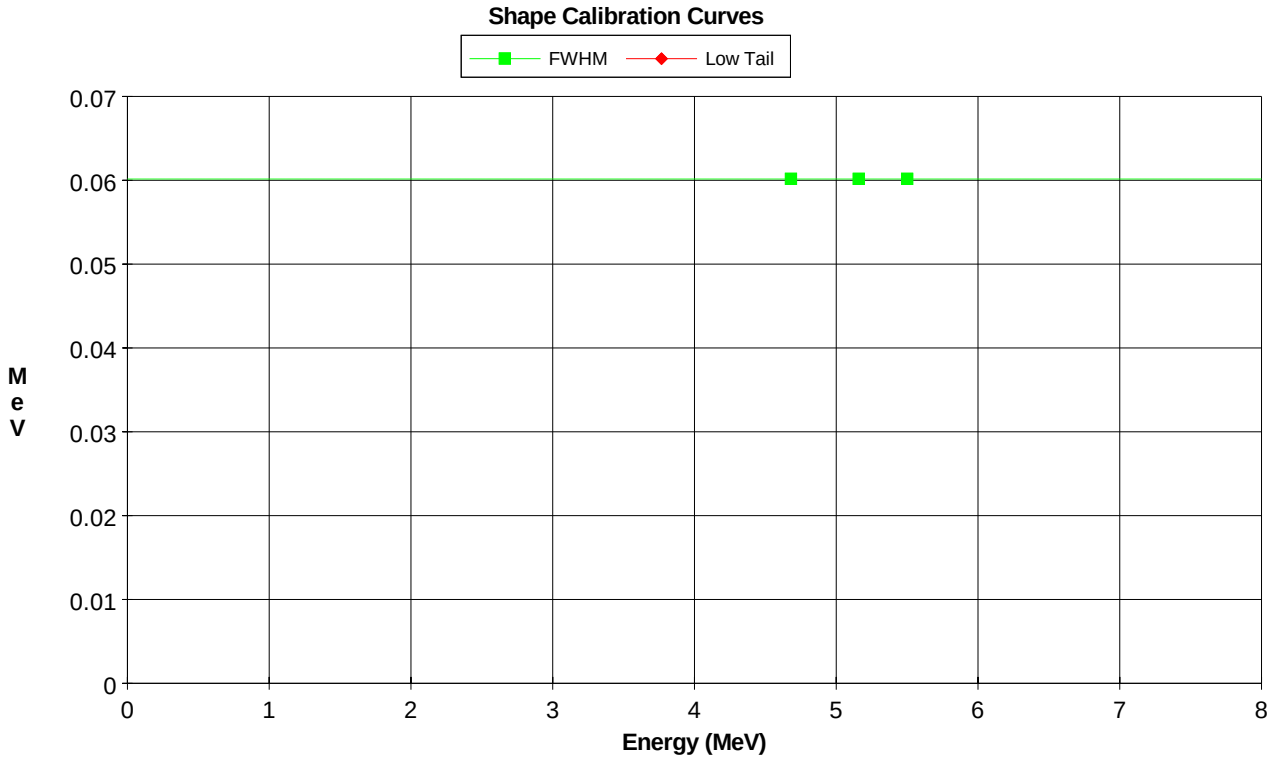
Errors quoted at 1.000 sigma

79.CNF


Live Time :600.090 sec
Real Time :602.900 sec
Start: 1:2.3889(MeV)
Stop : 1024:8.5550(MeV)
Acq. Start :Thu Nov 7 18:53:59 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_6A
Energy = 2.383e+00 MeV +6.027e-03*Ch
FWHM = 6.014e-02 MeV



Datasource: A_3_6A
Energy = 2.383e+00 MeV +6.027e-03*Ch
FWHM = 6.014e-02 MeV

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**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2024\CALIBRATIONS\110724\80\80.CNF

Report Generated On             : 11/13/2024  2:36:39 PM

Sample Title                    : DET 80 SC 110724
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 11/7/2024   6:54:05 PM

Live Time                       :      600.0 seconds
Real Time                       :      602.8 seconds

Dead Time                       :   0.46 %


              Energy Calibration Used Done On       : 11/7/2024
              Efficiency Calibration Used Done On   : 11/7/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

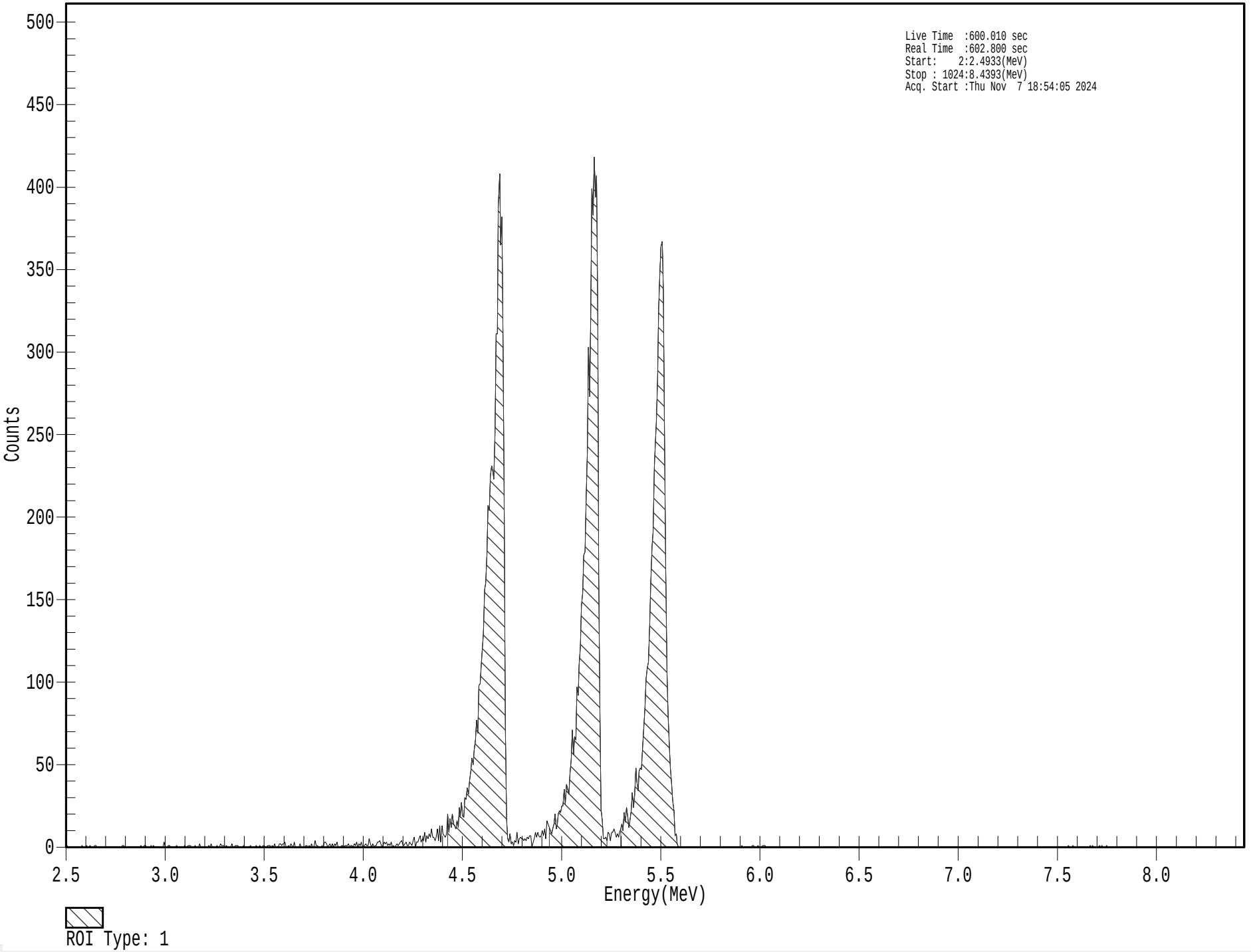
Detector Name: A_3_6B
Sample Title: DET 80 SC 110724
Peak Analysis Performed on: 11/13/2024 2:36:39 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

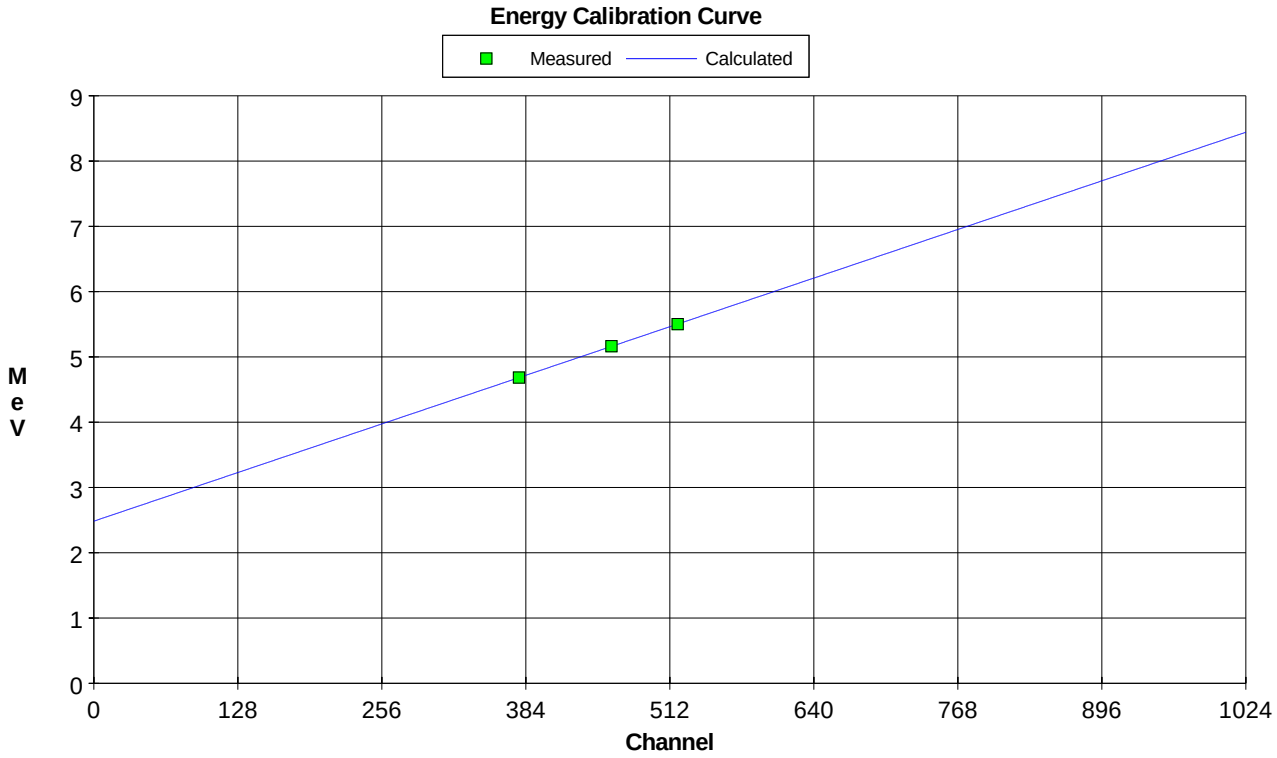
Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	333-	390	370.47	4637.08	75.58	6.25E+03	79.05	0.00E+00
2	421-	471	454.27	5124.63	62.48	5.78E+03	76.04	0.00E+00
3	483-	534	513.28	5467.94	67.74	5.30E+03	72.79	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

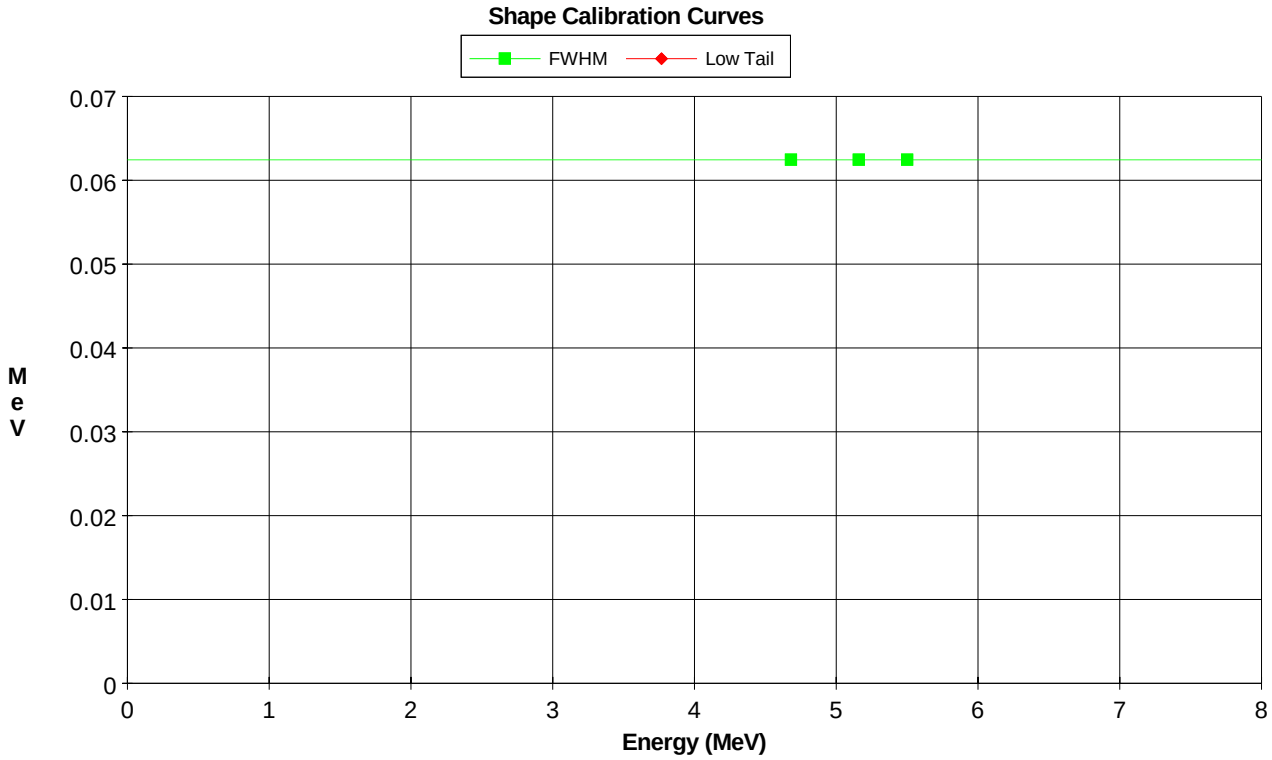
Errors quoted at 1.000 sigma

80.CNF


Live Time :600.010 sec
Real Time :602.800 sec
Start: 2:2.4933(MeV)
Stop : 1024:8.4393(MeV)
Acq. Start :Thu Nov 7 18:54:05 2024
Counts
Energy(MeV)
ROI Type: 1



Datasource: A_3_6B
Energy = 2.482e+00 MeV +5.818e-03*Ch
FWHM = 6.241e-02 MeV



Datasource: A_3_6B
Energy = 2.482e+00 MeV +5.818e-03*Ch
FWHM = 6.241e-02 MeV

Alpha Spectrometer Monthly Background

April-25

background count time 1000

APR 2025

det	U238 4.2 KeV	U235/U236 4.4 KeV	U234/U233 4.77	U232 5.32	Am-243 5.28 KeV	Am241 5.49 KeV	Pu242 4.9 KeV	Pu239 5.16 KeV	Pu238 5.50 KeV	Po209 4.88 KeV	Po210 5.31 KeV	Th232 4.0 KeV	Th230 4.68 Kev	Th-229 4.84 Kev	Th228 5.42 KeV	Ra226 4.0-5.0 Kev	Poor Resolution Ra226	Np-237 4.78 KeV	Ra224 5.68 KeV	Ra223 5.71 KeV
1	1	4	4	5	4	10	3	4	13	4	3	1	1	6	9	8	13	6	12	8
2	2	3	10	11	11	10	4	5	15	3	10	3	12	6	16	19	35	13	21	16
3	2	1	6	6	8	12	5	3	18	4	5	2	2	7	11	10	15	6	24	18
4	1	1	7	8	6	12	6	3	15	6	5	1	2	7	15	6	12	9	17	14
5																				
6																				
7																				
8																				
9	2	3	12	10	10	11	13	3	16	12	9	1	6	13	15	13	19	19	21	16
10	3	1	1	2	2	3	2	1	4	2	2	2	1	2	4	4	10	3	3	8
11	3	1	2	4	4	2	4	1	6	5	4	3	2	5	5	4	11	7	4	4
12																				
13	2	1	2	5	5	7	3	3	8	3	2	2	3	3	6	6	15	4	10	8
14	3	1	10	6	5	8	13	3	11	10	4	2	5	13	9	13	20	16	13	9
15																				
16																				
17																				
18																				
19	1	1	1	5	5	5	2	6	6	2	3	1	1	4	6	1	5	3	6	10
20	1	1	4	5	5	4	3	2	8	2	4	1	3	4	7	3	8	6	8	7
21	1	1	3	6	6	7	3	4	9	3	5	1	1	5	9	4	7	4	15	16
22																				
23	2	1	8	23	22	10	6	14	15	6	15	2	3	7	20	9	12	9	13	14
24	2	2	6	16	18	4	8	7	17	8	15	2	4	13	18	10	15	11	9	8
25	1	2	9	13	13	10	2	4	17	2	10	5	7	4	17	10	30	9	15	10
26	2	2	7	18	17	8	5	13	10	3	10	1	4	13	19	11	18	9	7	3
27	2	1	6	3	5	6	7	3	8	7	2	3	4	8	5	7	14	11	7	8
28	1	1	3	8	8	6	2	3	12	2	8	2	2	3	13	2	12	4	10	8
29	3	1	6	9	9	5	5	2	11	5	7	2	5	5	11	10	19	10	5	3
30	1	2	5	11	12	9	3	6	17	4	10	1	4	7	15	8	20	8	10	6
31																				
32	1	3	3	4	4	5	3	2	7	3	3	1	1	3	5	6	10	3	6	3
33	2	1	5	5	5	1	7	1	5	6	5	1	3	6	6	7	20	9	2	2
34	1	1	3	8	8	5	5	5	8	5	5	1	2	6	9	5	10	7	8	5
35	4	3	10	7	7	7	4	3	11	4	4	4	12	4	6	18	30	14	9	6
36	2	5	9	10	9	3	5	4	10	5	7	1	8	7	8	15	20	13	3	5
37	2	2	4	6	8	2	6	7	4	6	3	1	5	8	5	10	13	9	3	3
38	1	3	4	16	19	8	7	12	17	6	11	2	5	12	15	9	22	11	8	1
39	3	2	3	18	19	2	2	8	12	2	15	2	4	6	16	7	12	6	2	1
40	1	1	2	2	2	1	2	2	2	2	1	1	2	3	1	3	8	4	2	3
41	1	3	5	10	10	4	10	2	12	8	9	1	1	10	11	7	11	11	4	1
42	1	1	6	5	7	5	2	6	8	1	4	2	5	6	9	6	12	7	6	2
43	1	1	8	2	2	3	5	1	5	4	2	1	9	5	4	11	17	12	3	2
44	1	1	2	11	11	4	5	7	11	4	7	1	1	9	11	3	9	7	3	1

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1000

det	U238 4.2 KeV	U235/U236 4.4 KeV	U234/U233 4.77	U232 5.32	Am-243 5.28 KeV	Am241 5.49 KeV	Pu242 4.9 KeV	Pu239 5.16 KeV	Pu238 5.50 KeV	Po209 4.88 KeV	Po210 5.31 KeV	Th232 4.0 KeV	Th230 4.68 Kev	Th-229 4.84 Kev	Th228 5.42 KeV	Ra226 4.0-5.0 Kev	Poor Resolution Ra226	Np-237 4.78 KeV	Ra224 5.68 KeV	Ra223 5.71 KeV
45																				
46																				
47																				
48																				
49																				
50																				
51	1	1	2	2	5	6	1	4	7	1	1	1	3	3	3	3	7	3	6	2
52	1	1	2	1	1	7	1	1	7	1	1	1	3	1	4	4	23	2	7	2
53																				
54																				
55	1	1	2	6	7	4	2	2	9	1	6	1	2	2	7	4	16	3	4	3
56	1	2	1	6	4	5	1	1	9	1	4	1	1	1	6	3	5	2	7	4
57	1	1	1	6	6	4	1	6	5	1	2	1	1	2	5	1	14	1	3	1
58	1	1	1	6	6	1	1	4	1	1	4	2	1	1	4	2	7	1	2	2
59																				
60																				
61	2	1	2	1	1	3	1	1	3	1	1	2	3	1	4	5	10	3	3	1
62	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8	1	3	4
63																				
64																				
65	1	1	1	4	4	1	1	3	3	1	3	1	1	2	3	2	8	1	1	1
66	1	2	1	1	1	1	3	1	1	3	1	1	1	3	1	4	37	3	1	1
67	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	1	2	2
68	1	1	2	1	1	2	1	1	2	1	1	1	1	1	1	4	6	2	2	1
69	1	1	1	1	1	2	1	1	3	1	1	1	2	1	2	2	3	1	2	1
70	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5	1	1	1
71	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	3	1	2	2
72	1	1	1	2	2	1	1	1	3	1	2	1	1	1	2	1	1	1	2	1
73																				
74																				
75	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	1	1	1
76	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	1	3	1	3	2
77	2	2	9	6	7	6	6	6	7	1	4	4	7	5	7	13	22	9	5	1
78	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	1	1	1
79	1	1	1	1	1	7	1	1	7	1	1	3	1	1	2	2	5	1	6	1
80	1	1	1	1	1	3	1	1	3	1	1	1	1	1	1	1	4	1	3	1

APR_2025

DET Eff.	DET Eff. Uncert	DET ID	background count time 1000 Min U238 4.2 KeV	U235/U236 4.4 KeV	U234/U233 4.77	U232 5.32	Am-243 5.28 KeV	Am241 5.49 KeV	Pu242 4.9 KeV	Pu239 5.16 KeV	Pu238 5.50 KeV	Po209 4.88 KeV	Po210 5.31 KeV	Th232 4.0 KeV	Th230 4.68 Kev	Th-229 4.84 Kev	Th228 5.42 KeV	Ra226 .0-5.0 Ke	Poor Resolution Ra226 0	Np-237 4.78 KeV	Ra224 5.68 KeV	Ra223 5.71 KeV
23.2%	0.7%	1	0.001	0.004	0.004	0.005	0.004	0.010	0.003	0.004	0.013	0.004	0.003	0.001	0.001	0.006	0.009	0.008	0.013	0.006	0.012	0.008
27.1%	1.2%	2	0.002	0.003	0.010	0.011	0.011	0.010	0.004	0.005	0.015	0.003	0.010	0.003	0.012	0.006	0.016	0.019	0.035	0.013	0.021	0.016
26.4%	0.7%	3	0.002	0.001	0.006	0.006	0.008	0.012	0.005	0.003	0.018	0.004	0.005	0.002	0.002	0.007	0.011	0.010	0.015	0.006	0.024	0.018
24.1%	0.6%	4	0.001	0.001	0.007	0.008	0.006	0.012	0.006	0.003	0.015	0.006	0.005	0.001	0.002	0.007	0.015	0.006	0.012	0.009	0.017	0.014
		5																				
		6																				
		7																				
		8																				
27.1%	0.6%	9	0.002	0.003	0.012	0.010	0.010	0.011	0.013	0.003	0.016	0.012	0.009	0.001	0.006	0.013	0.015	0.013	0.019	0.019	0.021	0.016
30.6%	0.4%	10	0.003	0.001	0.001	0.002	0.002	0.003	0.002	0.001	0.004	0.002	0.002	0.002	0.001	0.002	0.004	0.004	0.010	0.003	0.003	0.008
27.9%	0.5%	11	0.003	0.001	0.002	0.004	0.004	0.002	0.004	0.001	0.006	0.005	0.004	0.003	0.002	0.005	0.005	0.004	0.011	0.007	0.004	0.004
		12																				
26.4%	0.7%	13	0.002	0.001	0.002	0.005	0.005	0.007	0.003	0.003	0.008	0.003	0.002	0.002	0.003	0.003	0.006	0.006	0.015	0.004	0.010	0.008
25.4%	0.9%	14	0.003	0.001	0.010	0.006	0.005	0.008	0.013	0.003	0.011	0.010	0.004	0.002	0.005	0.013	0.009	0.013	0.020	0.016	0.013	0.009
		15																				
		16																				
		17																				
		18																				
28.6%	0.4%	19	0.001	0.001	0.001	0.005	0.005	0.005	0.002	0.006	0.006	0.002	0.003	0.001	0.001	0.004	0.006	0.001	0.005	0.003	0.006	0.010
24.1%	0.7%	20	0.001	0.001	0.004	0.005	0.005	0.004	0.003	0.002	0.008	0.002	0.004	0.001	0.003	0.004	0.007	0.003	0.008	0.006	0.008	0.007
31.1%	1.0%	21	0.001	0.001	0.003	0.006	0.006	0.007	0.003	0.004	0.009	0.003	0.005	0.001	0.001	0.005	0.009	0.004	0.007	0.004	0.015	0.016
		22																				
29.0%	2.5%	23	0.002	0.001	0.008	0.023	0.022	0.010	0.006	0.014	0.015	0.006	0.015	0.002	0.003	0.007	0.020	0.009	0.012	0.009	0.013	0.014
25.3%	0.7%	24	0.002	0.002	0.006	0.016	0.018	0.004	0.008	0.007	0.017	0.008	0.015	0.002	0.004	0.013	0.018	0.010	0.015	0.011	0.009	0.008
24.1%	0.8%	25	0.001	0.002	0.009	0.013	0.013	0.010	0.002	0.004	0.017	0.002	0.010	0.005	0.007	0.004	0.017	0.010	0.030	0.009	0.015	0.010
22.6%	1.1%	26	0.002	0.002	0.007	0.018	0.017	0.008	0.005	0.013	0.010	0.003	0.010	0.001	0.004	0.013	0.019	0.011	0.018	0.009	0.007	0.003
23.2%	1.1%	27	0.002	0.001	0.006	0.003	0.005	0.006	0.007	0.003	0.008	0.007	0.002	0.003	0.004	0.008	0.005	0.007	0.014	0.011	0.007	0.008
26.1%	0.4%	28	0.001	0.001	0.003	0.008	0.008	0.006	0.002	0.003	0.012	0.002	0.008	0.002	0.002	0.003	0.013	0.002	0.012	0.004	0.010	0.008
23.7%	0.3%	29	0.003	0.001	0.006	0.009	0.009	0.005	0.005	0.002	0.011	0.005	0.007	0.002	0.005	0.005	0.011	0.010	0.019	0.010	0.005	0.003
27.2%	1.1%	30	0.001	0.002	0.005	0.011	0.012	0.009	0.003	0.006	0.017	0.004	0.010	0.001	0.004	0.007	0.015	0.008	0.020	0.008	0.010	0.006
		31																				
28.2%	0.2%	32	0.001	0.003	0.003	0.004	0.004	0.005	0.003	0.002	0.007	0.003	0.003	0.001	0.001	0.003	0.005	0.006	0.010	0.003	0.006	0.003
23.1%	0.6%	A-4-1A	0.002	0.001	0.005	0.005	0.005	0.001	0.007	0.001	0.005	0.006	0.005	0.001	0.003	0.006	0.006	0.007	0.020	0.009	0.002	0.002
21.3%	1.5%	A-4-1B	0.001	0.001	0.003	0.008	0.008	0.005	0.005	0.005	0.008	0.005	0.005	0.001	0.002	0.006	0.009	0.005	0.010	0.007	0.008	0.005
21.4%	0.8%	A-4-2A	0.004	0.003	0.010	0.007	0.007	0.007	0.004	0.003	0.011	0.004	0.004	0.004	0.012	0.004	0.006	0.018	0.030	0.014	0.009	0.006
22.8%	0.5%	A-4-2B	0.002	0.005	0.009	0.010	0.009	0.003	0.005	0.004	0.010	0.005	0.007	0.001	0.008	0.007	0.008	0.015	0.020	0.013	0.003	0.005
23.2%	0.8%	A-4-3A	0.002	0.002	0.004	0.006	0.008	0.002	0.006	0.007	0.004	0.006	0.003	0.001	0.005	0.008	0.005	0.010	0.013	0.009	0.003	0.003
21.7%	0.9%	A-4-3B	0.001	0.003	0.004	0.016	0.019	0.008	0.007	0.012	0.017	0.006	0.011	0.002	0.005	0.012	0.015	0.009	0.022	0.011	0.008	0.001
22.9%	0.7%	A-4-4A	0.003	0.002	0.003	0.018	0.019	0.002	0.002	0.008	0.012	0.002	0.015	0.002	0.004	0.006	0.016	0.007	0.012	0.006	0.002	0.001
22.9%	0.4%	A-4-4B	0.001	0.001	0.002	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.001	0.001	0.002	0.003	0.001	0.003	0.008	0.004	0.002	0.003
22.2%	1.3%	A-4-5A	0.001	0.003	0.005	0.010	0.010	0.004	0.010	0.002	0.012	0.008	0.009	0.001	0.001	0.010	0.011	0.007	0.011	0.011	0.004	0.001
22.8%	0.9%	A-4-5B	0.001	0.001	0.006	0.005	0.007	0.005	0.002	0.006	0.008	0.001	0.004	0.002	0.005	0.006	0.009	0.006	0.012	0.007	0.006	0.002
23.5%	0.7%	A-4-6A	0.001	0.001	0.008	0.002	0.002	0.003	0.005	0.001	0.005	0.004	0.002	0.001	0.009	0.005	0.004	0.011	0.017	0.012	0.003	0.002
20.9%	0.3%	A-4-6B	0.001	0.001	0.002	0.011	0.011	0.004	0.005	0.007	0.011	0.004	0.007	0.001	0.001	0.009	0.011	0.003	0.009	0.007	0.003	0.001

background count time 1000 Min APR_2025 Poor Resolution

DET Eff.	DET Eff. Uncert	DET ID	U238 4.2 KeV	U235/U236 4.4 KeV	U234/U233 4.77	U232 5.32	Am-243 5.28 KeV	Am241 5.49 KeV	Pu242 4.9 KeV	Pu239 5.16 KeV	Pu238 5.50 KeV	Po209 4.88 KeV	Po210 5.31 KeV	Th232 4.0 KeV	Th230 4.68 Kev	Th-229 4.84 Kev	Th228 5.42 KeV	Ra226 .0-5.0 Ke	Ra226 0	Np-237 4.78 KeV	Ra224 5.68 KeV	Ra223 5.71 KeV
		A-1-1A																				
		A-1-1B																				
		A-1-2A																				
		A-1-2B																				
		A-1-3A																				
		A-1-3B																				
23.3%	1.0%	A-1-4A	0.001	0.001	0.002	0.002	0.005	0.006	0.001	0.004	0.007	0.001	0.001	0.001	0.003	0.003	0.003	0.003	0.007	0.003	0.006	0.002
22.9%	0.2%	A-1-4B	0.001	0.001	0.002	0.001	0.001	0.007	0.001	0.001	0.007	0.001	0.001	0.001	0.003	0.001	0.004	0.004	0.023	0.002	0.007	0.002
21.2%	0.4%	A-1-5A																				
25.9%	0.8%	A-1-5B																				
26.5%	3.5%	A-1-6A	0.001	0.001	0.002	0.006	0.007	0.004	0.002	0.002	0.009	0.001	0.006	0.001	0.002	0.002	0.007	0.004	0.016	0.003	0.004	0.003
23.2%	0.4%	A-1-6B	0.001	0.002	0.001	0.006	0.004	0.005	0.001	0.001	0.009	0.001	0.004	0.001	0.001	0.001	0.006	0.003	0.005	0.002	0.007	0.004
26.2%	0.1%	A-2-1A	0.001	0.001	0.001	0.006	0.006	0.004	0.001	0.006	0.005	0.001	0.002	0.001	0.001	0.002	0.005	0.001	0.014	0.001	0.003	0.001
28.9%	1.1%	A-2-1B	0.001	0.001	0.001	0.006	0.006	0.001	0.001	0.004	0.001	0.001	0.004	0.002	0.001	0.001	0.004	0.002	0.007	0.001	0.002	0.002
25.4%	0.9%	A-2-2A																				
		A-2-3B																				
26.6%	0.6%	A-2-3A	0.002	0.001	0.002	0.001	0.001	0.003	0.001	0.001	0.003	0.001	0.001	0.002	0.003	0.001	0.004	0.005	0.010	0.003	0.003	0.001
23.4%	0.8%	A-2-3B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.008	0.001	0.003	0.004
		A-2-3A																				
		A-2-3B																				
25.8%	1.3%	A-2-5A	0.001	0.001	0.001	0.004	0.004	0.001	0.001	0.003	0.003	0.001	0.003	0.001	0.001	0.002	0.003	0.002	0.008	0.001	0.001	0.001
26.5%	0.6%	A-2-5B	0.001	0.002	0.001	0.001	0.001	0.001	0.003	0.001	0.001	0.003	0.001	0.001	0.001	0.003	0.001	0.004	0.037	0.003	0.001	0.001
25.2%	0.6%	A-2-6A	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.020	0.001	0.002	0.002
26.7%	0.4%	A-2-6B	0.001	0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.006	0.002	0.002	0.001
26.5%	1.3%	A-3-1A	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.003	0.001	0.001	0.001	0.002	0.001	0.002	0.002	0.003	0.001	0.002	0.001
27.7%	0.5%	A-3-1B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.001
23.7%	0.8%	A-3-2A	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.002	0.002
25.7%	0.2%	A-3-2B	0.001	0.001	0.001	0.002	0.002	0.001	0.001	0.001	0.003	0.001	0.002	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.001
		A-3-3A																				
		A-3-3B																				
27.6%	0.6%	A-3-4A	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.014	0.001	0.001	0.001
27.1%	0.2%	A-3-4B	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.003	0.002
26.5%	1.1%	A-3-5A	0.002	0.002	0.009	0.006	0.007	0.006	0.006	0.006	0.007	0.001	0.004	0.004	0.007	0.005	0.007	0.013	0.022	0.009	0.005	0.001
26.3%	0.4%	A-3-5B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.001	0.001	0.001
22.8%	1.2%	A-3-6A	0.001	0.001	0.001	0.001	0.001	0.007	0.001	0.001	0.007	0.001	0.001	0.003	0.001	0.001	0.002	0.002	0.005	0.001	0.006	0.001
26.2%	1.5%	A-3-6B	0.001	0.001	0.001	0.001	0.001	0.003	0.001	0.001	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004	0.001	0.003	0.001

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\01.CNF

Report Generated On             : 4/2/2025   11:36:47 AM

Sample Title                    : DET 01 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:10:24 PM

Live Time                       :    60000.5 seconds
Real Time                       :    60000.5 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 2/19/2025
              Efficiency Calibration Used Done On   : 2/19/2025
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

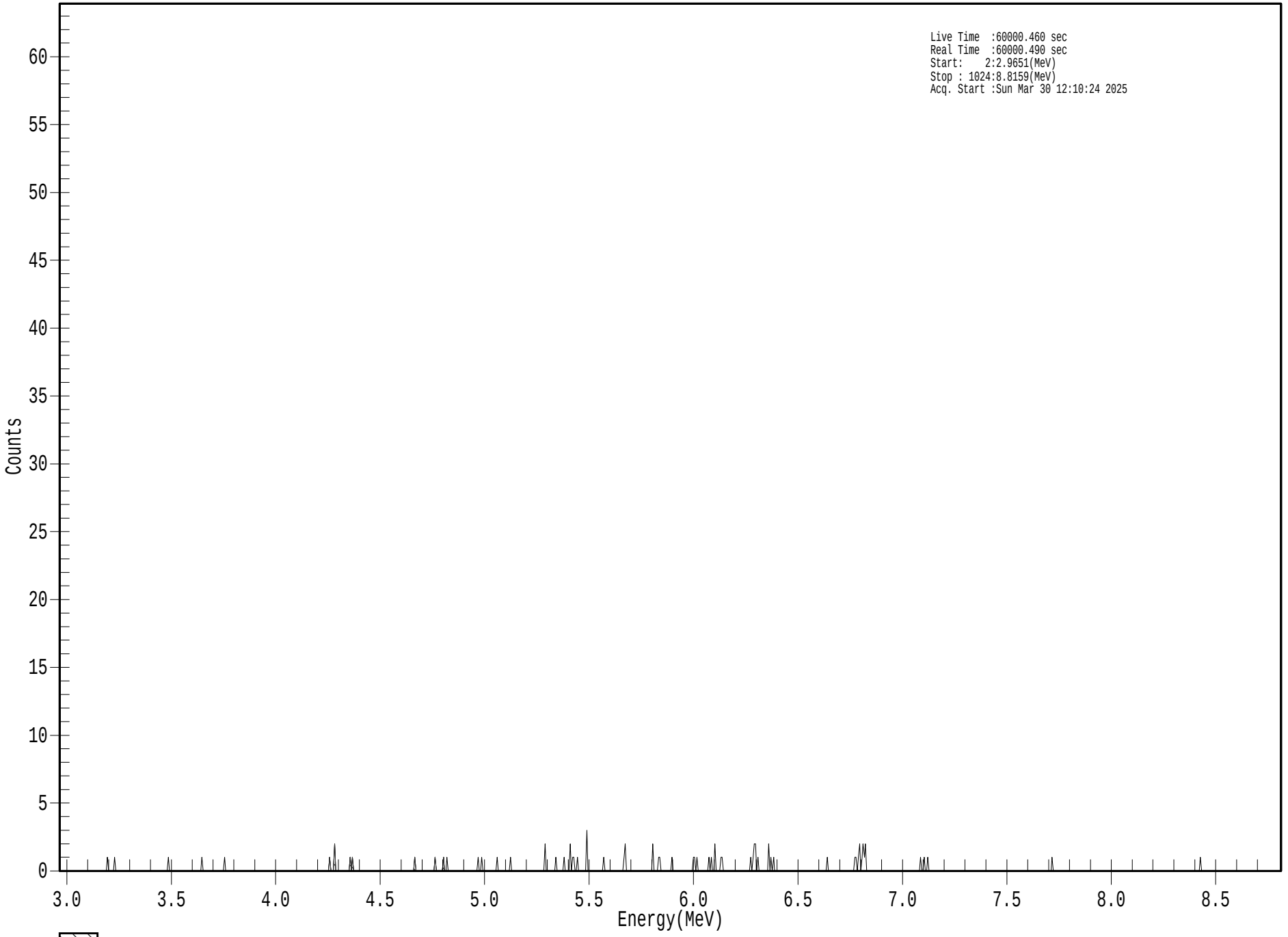
Detector Name: DET01
Sample Title: DET 01 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 11:36:47 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	192-	324	265.25	4472.16	5.72	8.00E+00	2.83	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

01.CNF


Live Time :60000.460 sec
Real Time :60000.490 sec
Start: 2:2.9651(MeV)
Stop : 1024:8.8159(MeV)
Acq. Start :Sun Mar 30 12:10:24 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\02.CNF

Report Generated On : 4/2/2025 11:39:27 AM

Sample Title : DET 02 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:26 PM

Live Time : 60000.7 seconds
Real Time : 60000.7 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

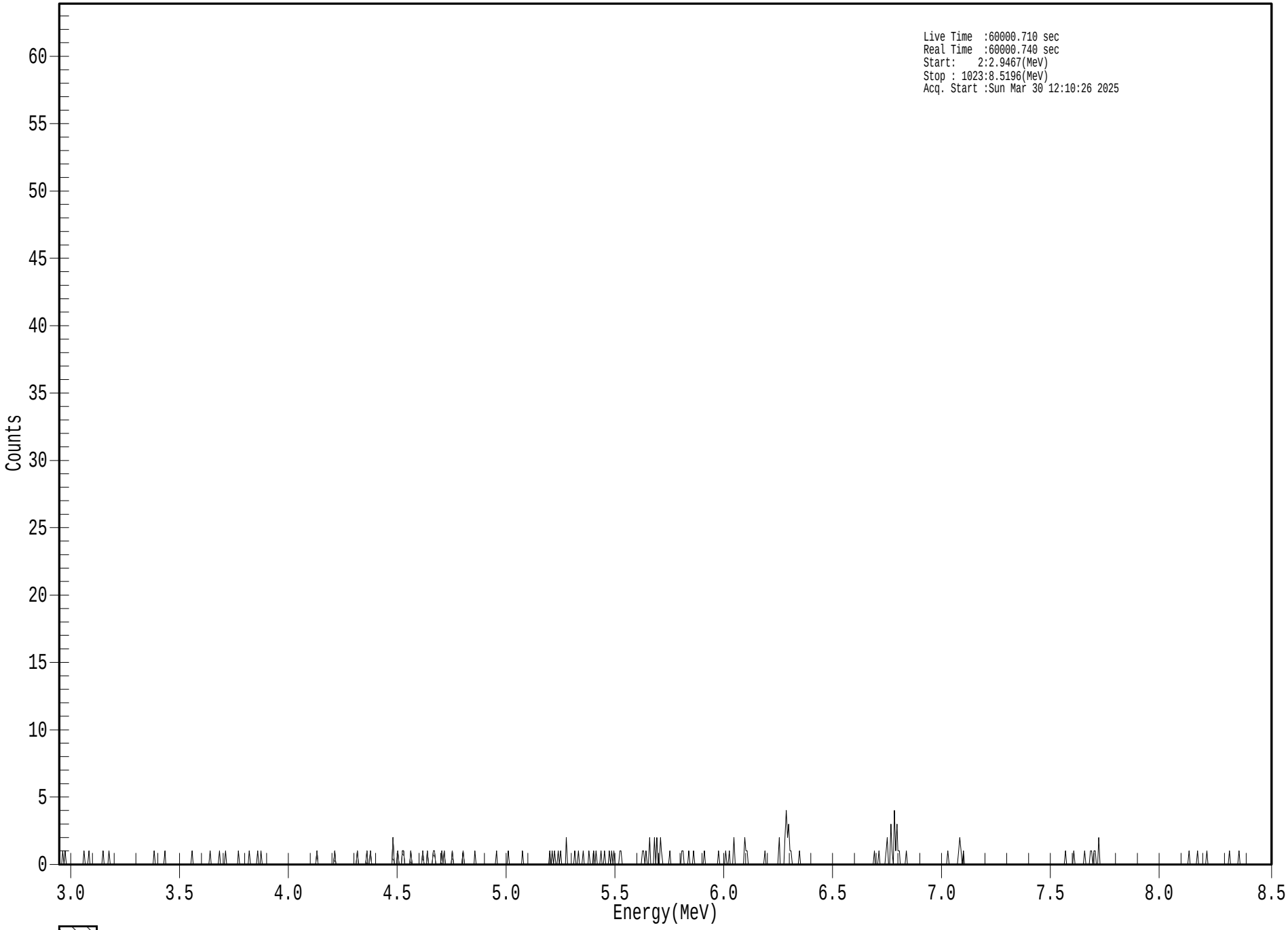
Detector Name: DET02
Sample Title: DET 02 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 11:39:27 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	204-	343	291.84	4528.75	5.46	1.90E+01	4.36	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

02.CNF


Live Time :60000.710 sec
Real Time :60000.740 sec
Start: 2:2.9467(MeV)
Stop : 1023:8.5196(MeV)
Acq. Start :Sun Mar 30 12:10:26 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
Energy(MeV)
ROI Type: 1

```
**************************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**************************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\03.CNF

Report Generated On             : 4/2/2025   11:54:47 AM

Sample Title                    : DET 03 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:10:28 PM

Live Time                       :    60001.1 seconds
Real Time                       :    60001.1 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 2/19/2025
              Efficiency Calibration Used Done On   : 2/19/2025
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

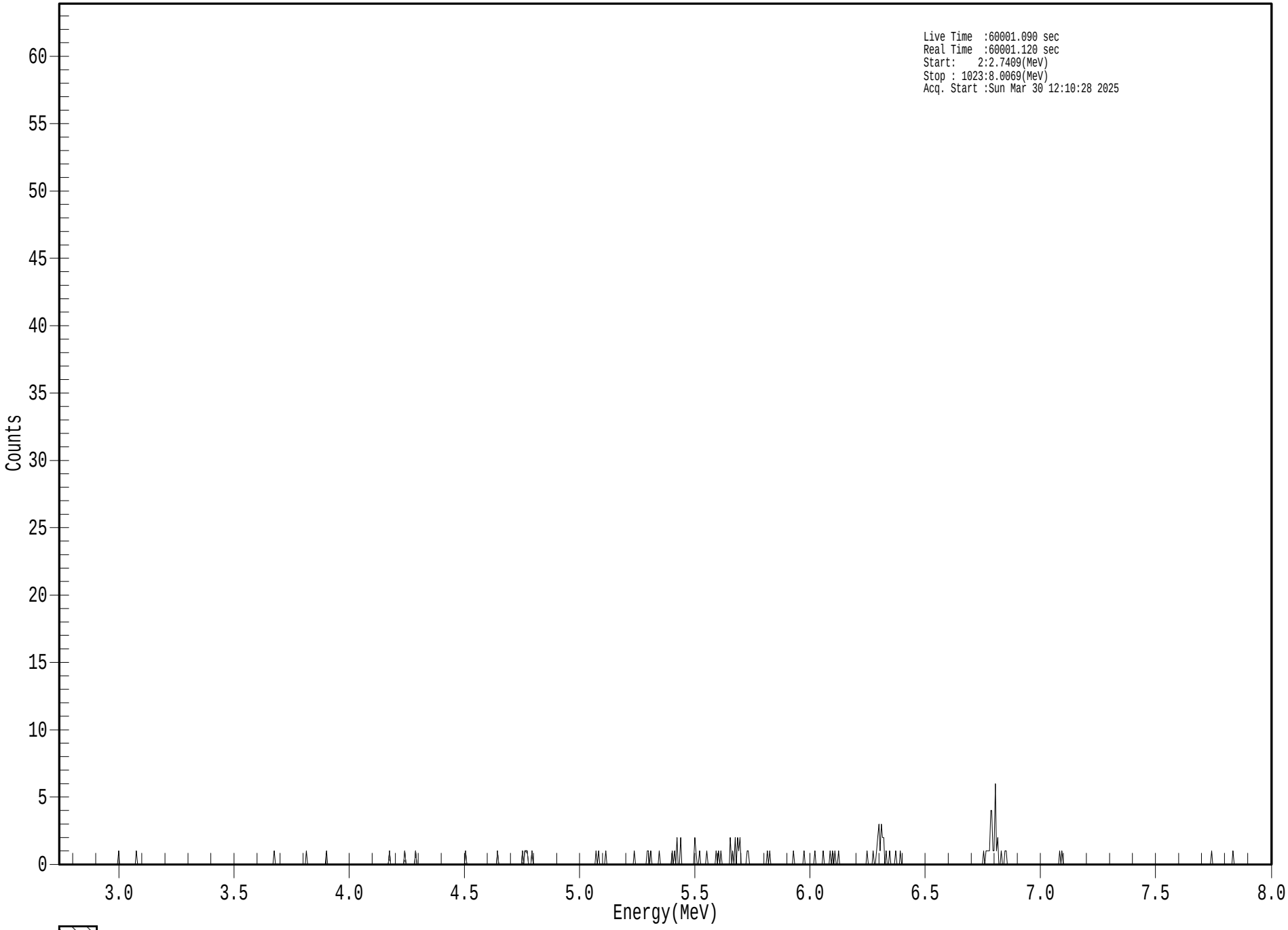
Detector Name: DET03
Sample Title: DET 03 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 11:54:47 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	256-	403	356.70	4570.34	5.16	1.00E+01	3.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

03.CNF


Live Time :60001.090 sec
Real Time :60001.120 sec
Start: 2:2.7409(MeV)
Stop : 1023:8.0069(MeV)
Acq. Start :Sun Mar 30 12:10:28 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\04.CNF

Report Generated On : 4/2/2025 11:57:25 AM

Sample Title : DET 04 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:30 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/19/2025
Efficiency Calibration Used Done On : 2/19/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

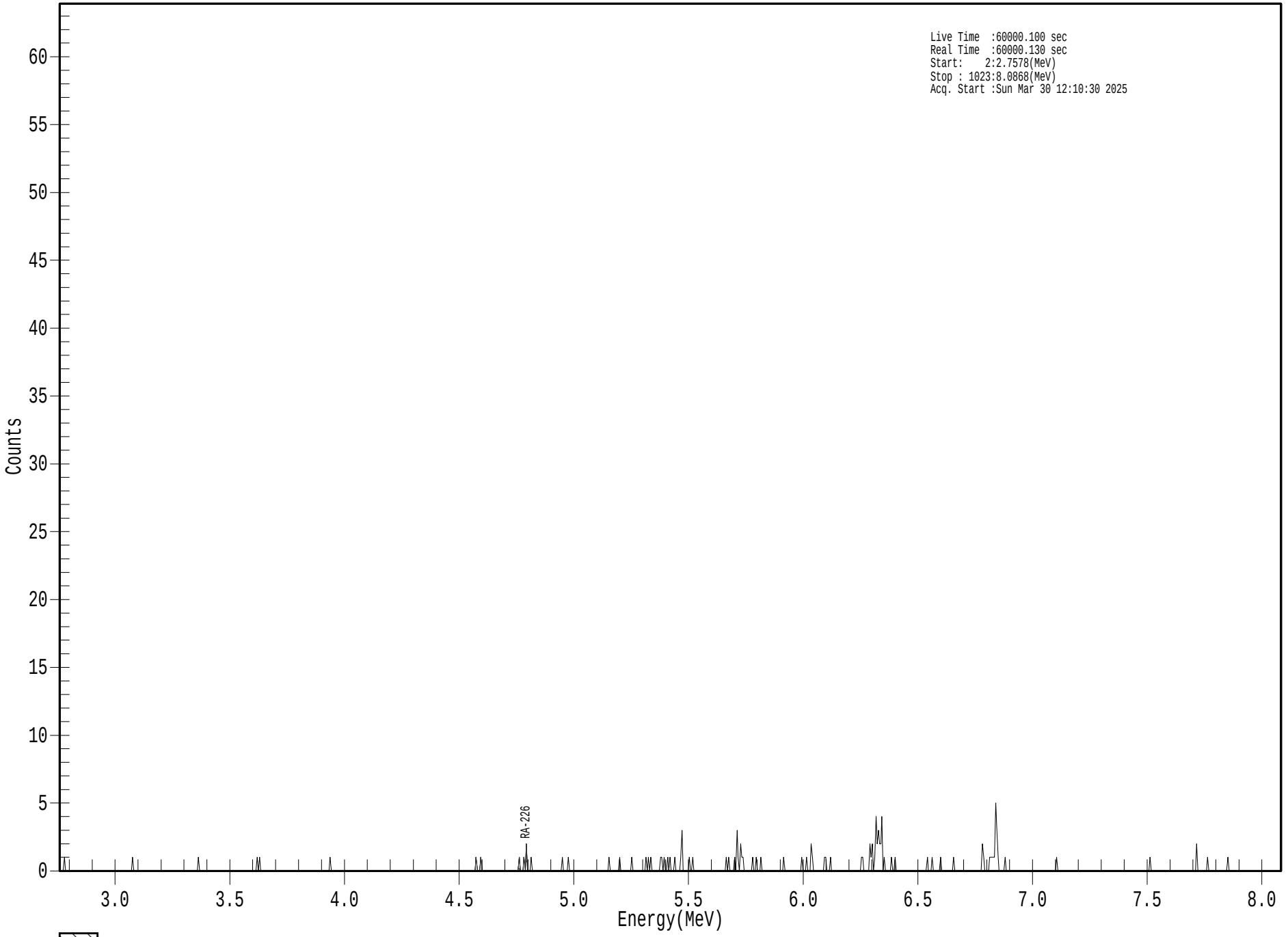
Detector Name: DET04
Sample Title: DET 04 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 11:57:25 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	250-	395	377.33	4716.81	5.22	6.00E+00	2.45	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

04.CNF


Live Time :60000.100 sec
Real Time :60000.130 sec
Start: 2:2.7578(MeV)
Stop : 1023:8.0868(MeV)
Acq. Start :Sun Mar 30 12:10:30 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\09.CNF

Report Generated On : 4/2/2025 11:59:34 AM

Sample Title : DET 09 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:40 PM

Live Time : 60000.8 seconds
Real Time : 60000.8 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

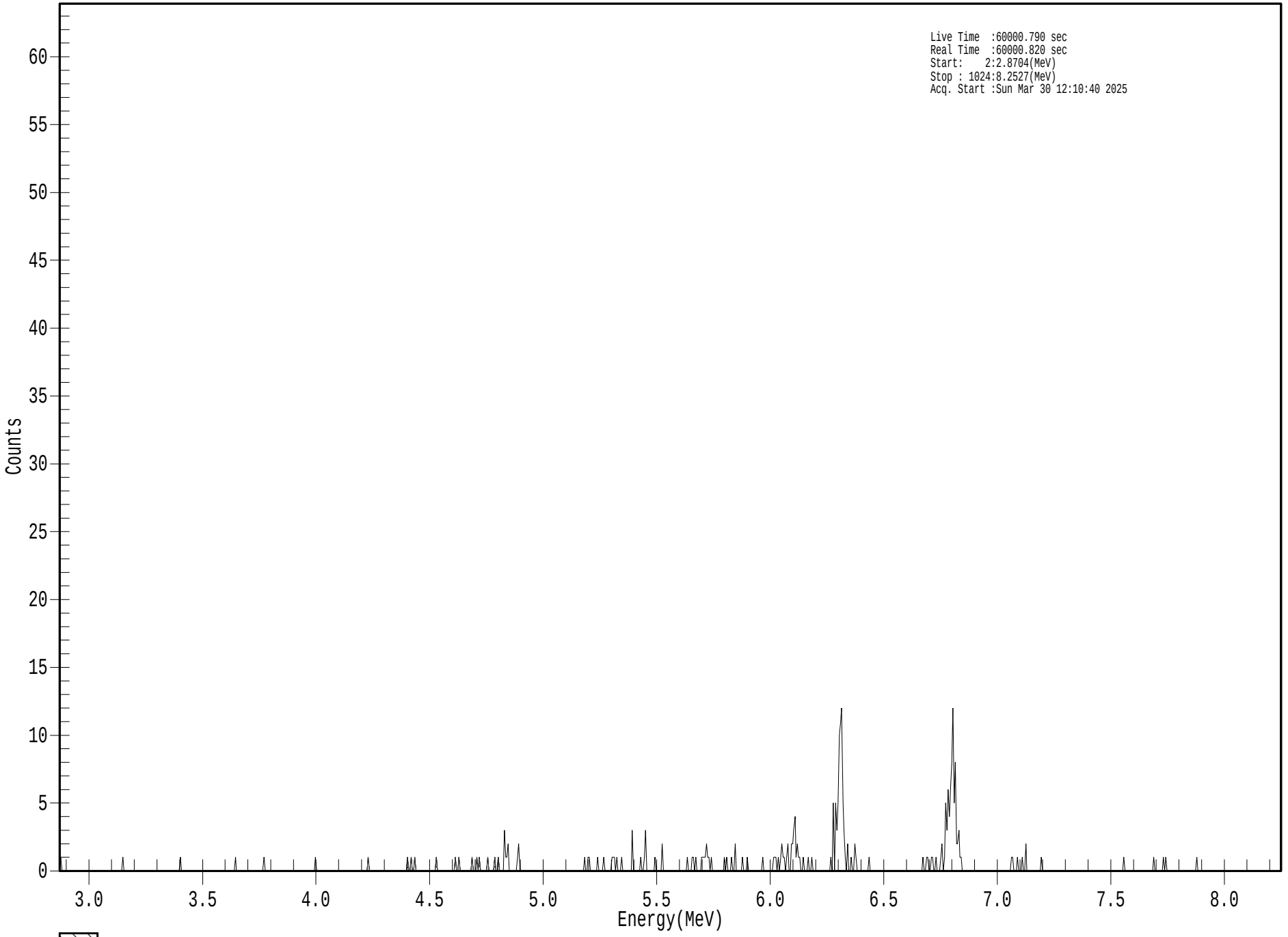
Detector Name: DET09
Sample Title: DET 09 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 11:59:34 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	226-	370	329.23	4593.77	5.27	1.30E+01	3.61	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

09.CNF


Live Time :60000.790 sec
Real Time :60000.820 sec
Start: 2:2.8704(MeV)
Stop : 1024:8.2527(MeV)
Acq. Start :Sun Mar 30 12:10:40 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\10.CNF

Report Generated On             : 4/2/2025   12:01:42 PM

Sample Title                    : DET 10 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:10:41 PM

Live Time                       :    60000.8 seconds
Real Time                       :    60000.8 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

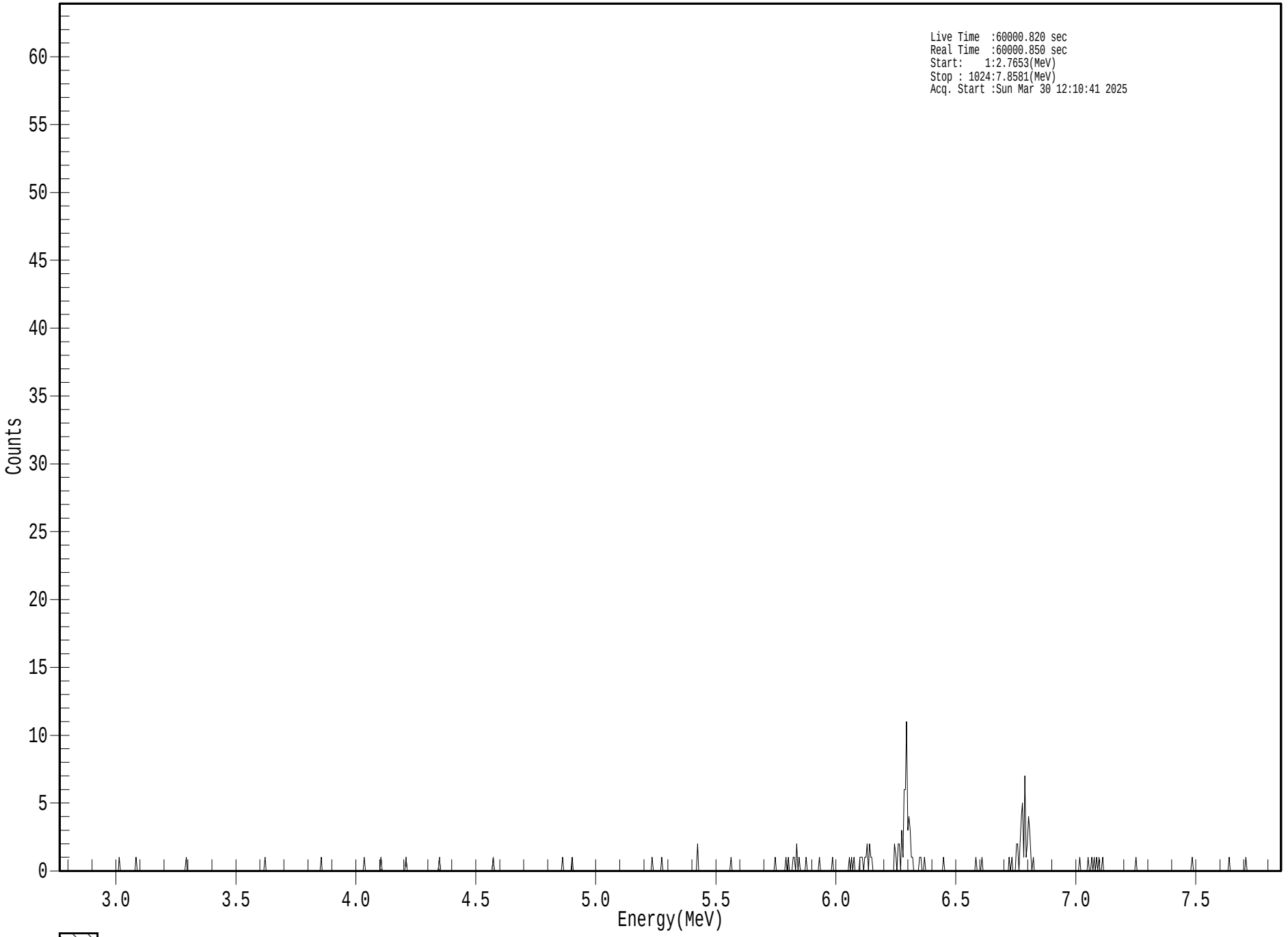
Detector Name: DET10
Sample Title: DET 10 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:01:42 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	259-	412	311.00	4308.60	4.98	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

10.CNF


Live Time :60000.820 sec
Real Time :60000.850 sec
Start: 1:2.7653(MeV)
Stop : 1024:7.8581(MeV)
Acq. Start :Sun Mar 30 12:10:41 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
Energy(MeV)
ROI Type: 1

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\11.CNF

Report Generated On             : 4/2/2025   12:48:24 PM

Sample Title                    : DET 11 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:10:43 PM

Live Time                       :    60000.9 seconds
Real Time                       :    60000.9 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

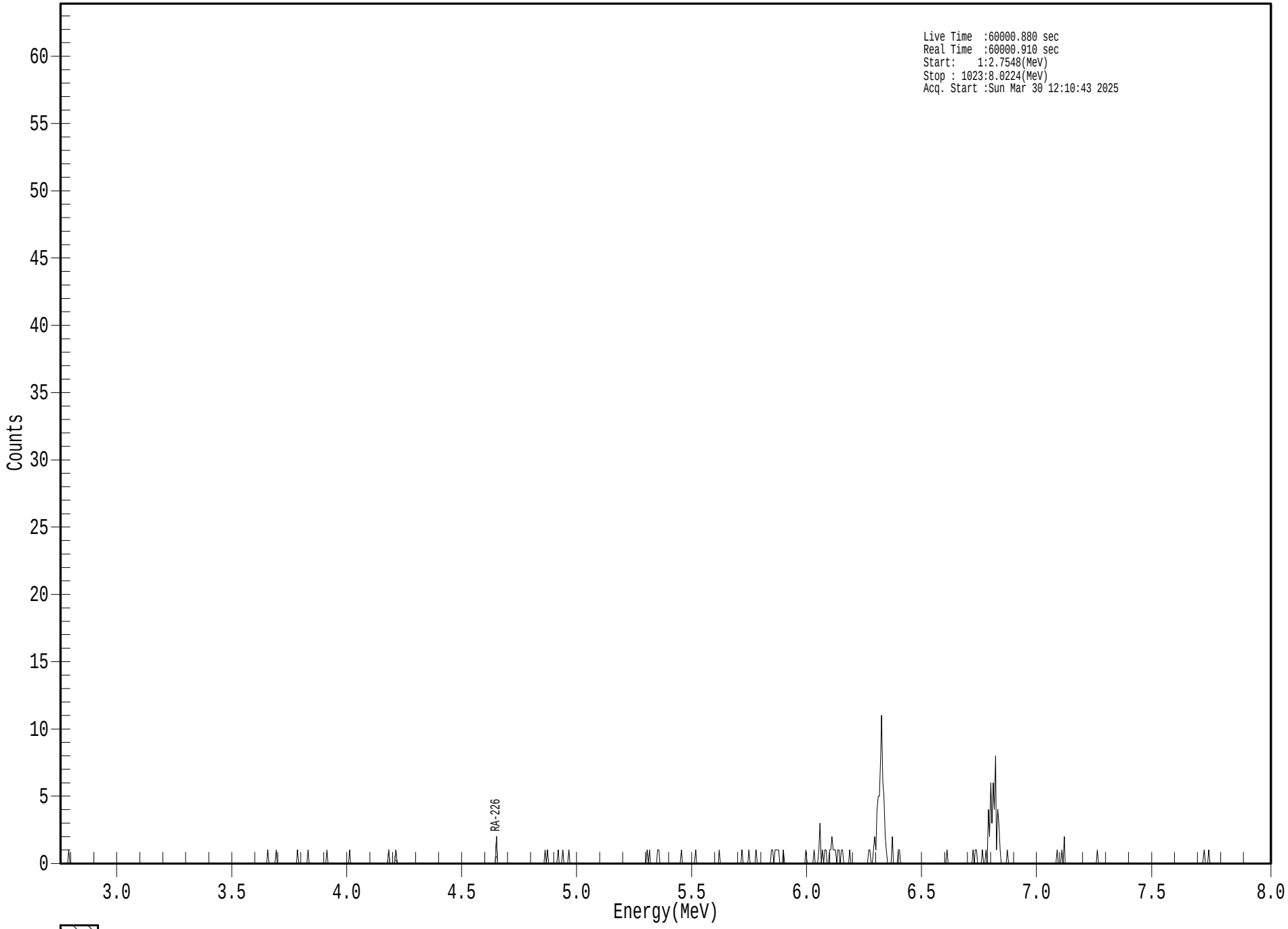
Detector Name: DET11
Sample Title: DET 11 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:48:24 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	253-	400	325.00	4424.79	5.15	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

11.CNF


Live Time :60000.880 sec
Real Time :60000.910 sec
Start: 1:2.7548(MeV)
Stop : 1023:8.0224(MeV)
Acq. Start :Sun Mar 30 12:10:43 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\13.CNF

Report Generated On : 4/2/2025 12:50:27 PM

Sample Title : DET 13 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:45 PM

Live Time : 60000.7 seconds
Real Time : 60000.7 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

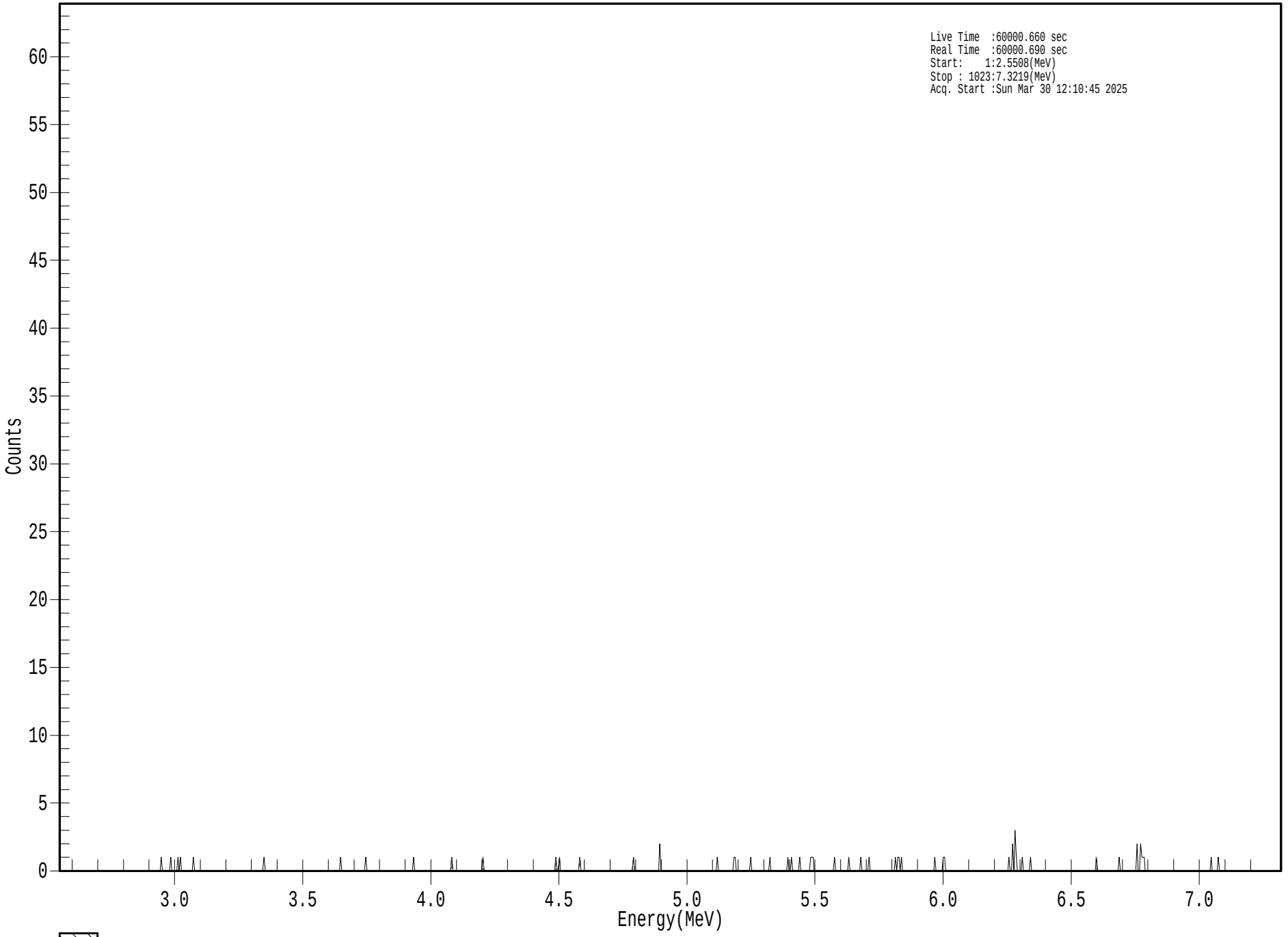
Detector Name: DET13
Sample Title: DET 13 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:50:27 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	322-	485	406.00	4441.53	4.67	6.00E+00	2.45	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

13.CNF


Live Time :60000.660 sec
Real Time :60000.690 sec
Start: 1:2.5508(MeV)
Stop : 1023:7.3219(MeV)
Acq. Start :Sun Mar 30 12:10:45 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\14.CNF

Report Generated On             : 4/2/2025   12:52:31 PM

Sample Title                    : DET 14 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:10:46 PM

Live Time                       :    60000.4 seconds
Real Time                       :    60000.5 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

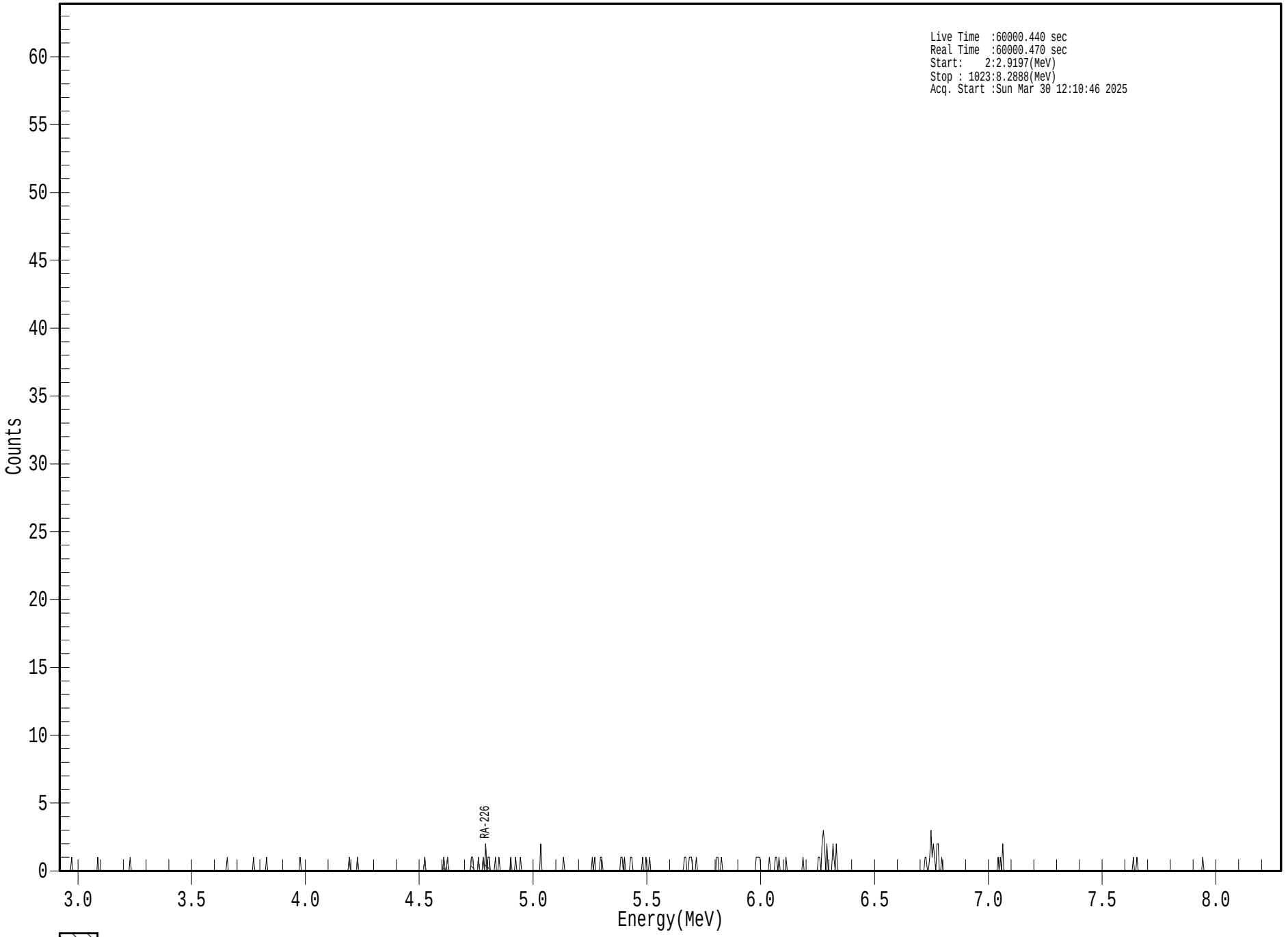
Detector Name: DET14
Sample Title: DET 14 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:52:31 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	217-	361	329.92	4644.18	5.26	1.30E+01	3.61	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

14.CNF


Live Time :60000.440 sec
Real Time :60000.470 sec
Start: 2:2.9197(MeV)
Stop : 1023:8.2888(MeV)
Acq. Start :Sun Mar 30 12:10:46 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\19.CNF

Report Generated On : 4/2/2025 12:54:22 PM

Sample Title : DET 19 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:53 PM

Live Time : 60000.4 seconds
Real Time : 60000.5 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

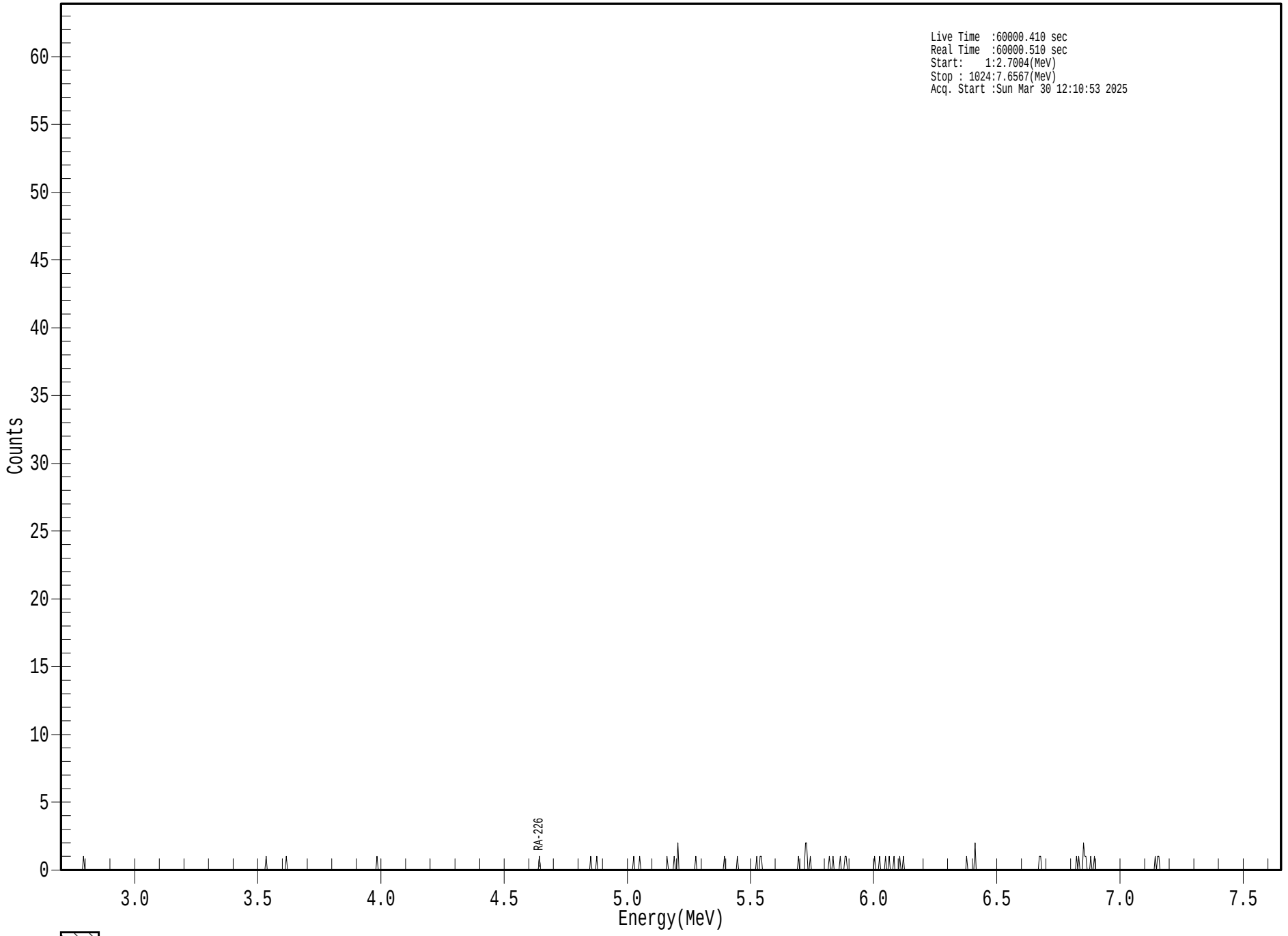
Detector Name: DET19
Sample Title: DET 19 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:54:22 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	280-	436	402.00	4643.22	4.84	1.00E+00	1.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

19.CNF


Live Time :60000.410 sec
Real Time :60000.510 sec
Start: 1:2.7004(MeV)
Stop : 1024:7.6567(MeV)
Acq. Start :Sun Mar 30 12:10:53 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\20.CNF

Report Generated On : 4/2/2025 12:56:47 PM

Sample Title : DET 20 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:55 PM

Live Time : 60000.2 seconds
Real Time : 60000.3 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

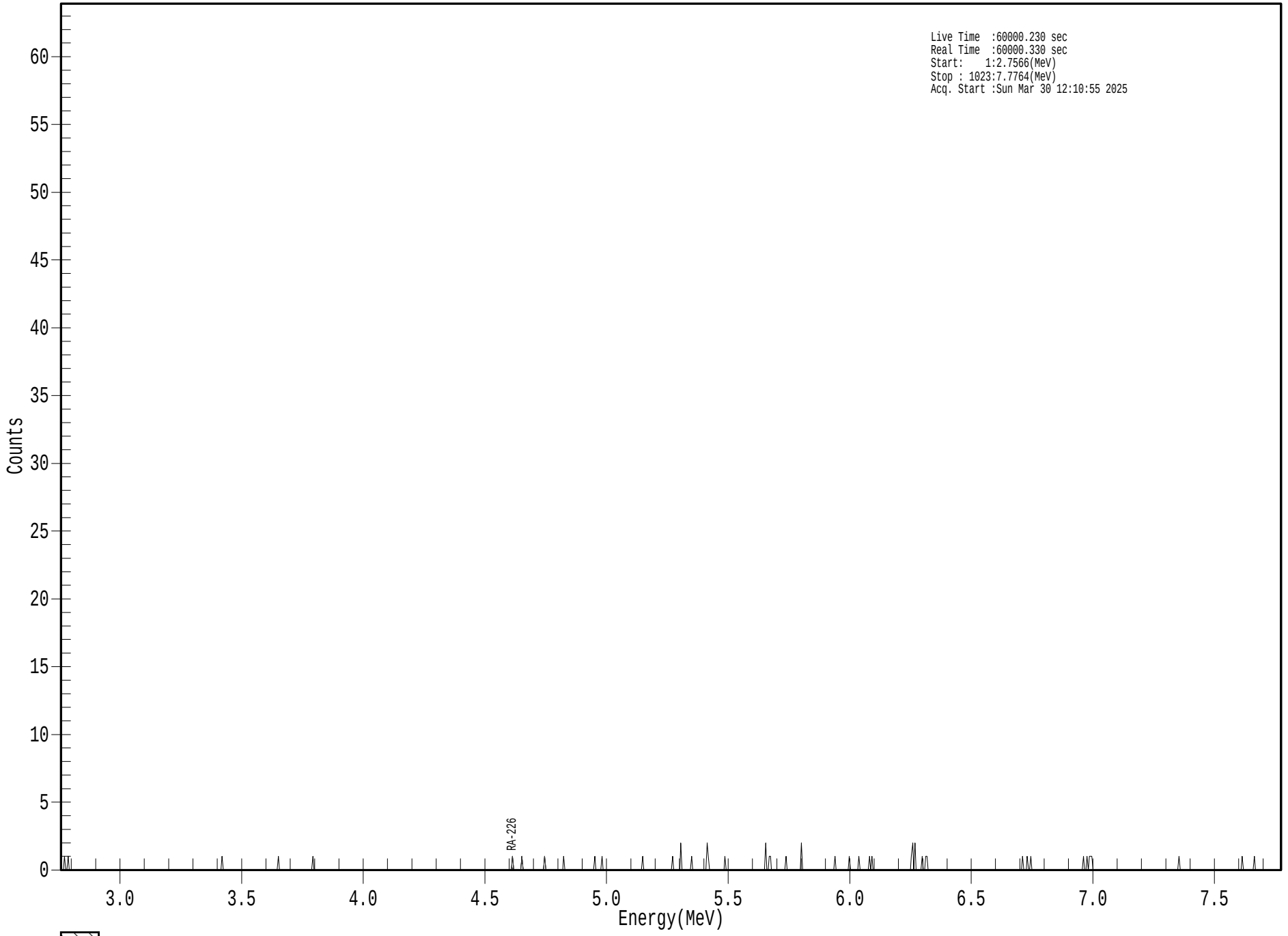
Detector Name: DET20
Sample Title: DET 20 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:56:47 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	265-	419	390.67	4670.57	4.91	3.00E+00	1.73	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

20.CNF


Live Time :60000.230 sec
Real Time :60000.330 sec
Start: 1:2.7566(MeV)
Stop : 1023:7.7764(MeV)
Acq. Start :Sun Mar 30 12:10:55 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\21.CNF

Report Generated On : 4/2/2025 12:59:03 PM

Sample Title : DET 21 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:57 PM

Live Time : 60000.2 seconds
Real Time : 60000.3 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

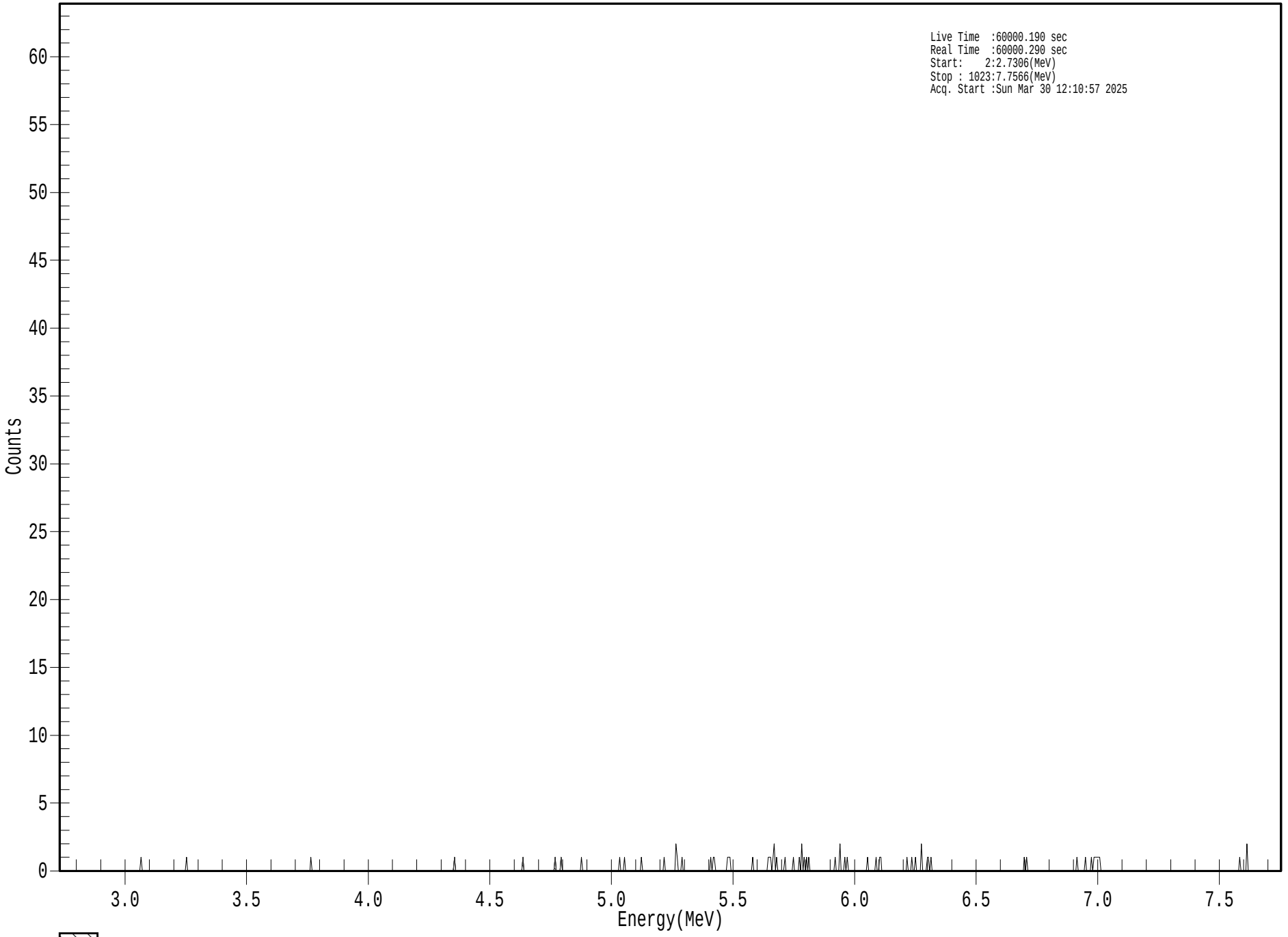
Detector Name: DET21
Sample Title: DET 21 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 12:59:03 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	270-	424	389.50	4638.12	4.92	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

21.CNF


Live Time :60000.190 sec
Real Time :60000.290 sec
Start: 2:2.7306(MeV)
Stop : 1023:7.7566(MeV)
Acq. Start :Sun Mar 30 12:10:57 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\23.CNF

Report Generated On : 4/2/2025 1:01:23 PM

Sample Title : DET 23 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:59 PM

Live Time : 60000.0 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

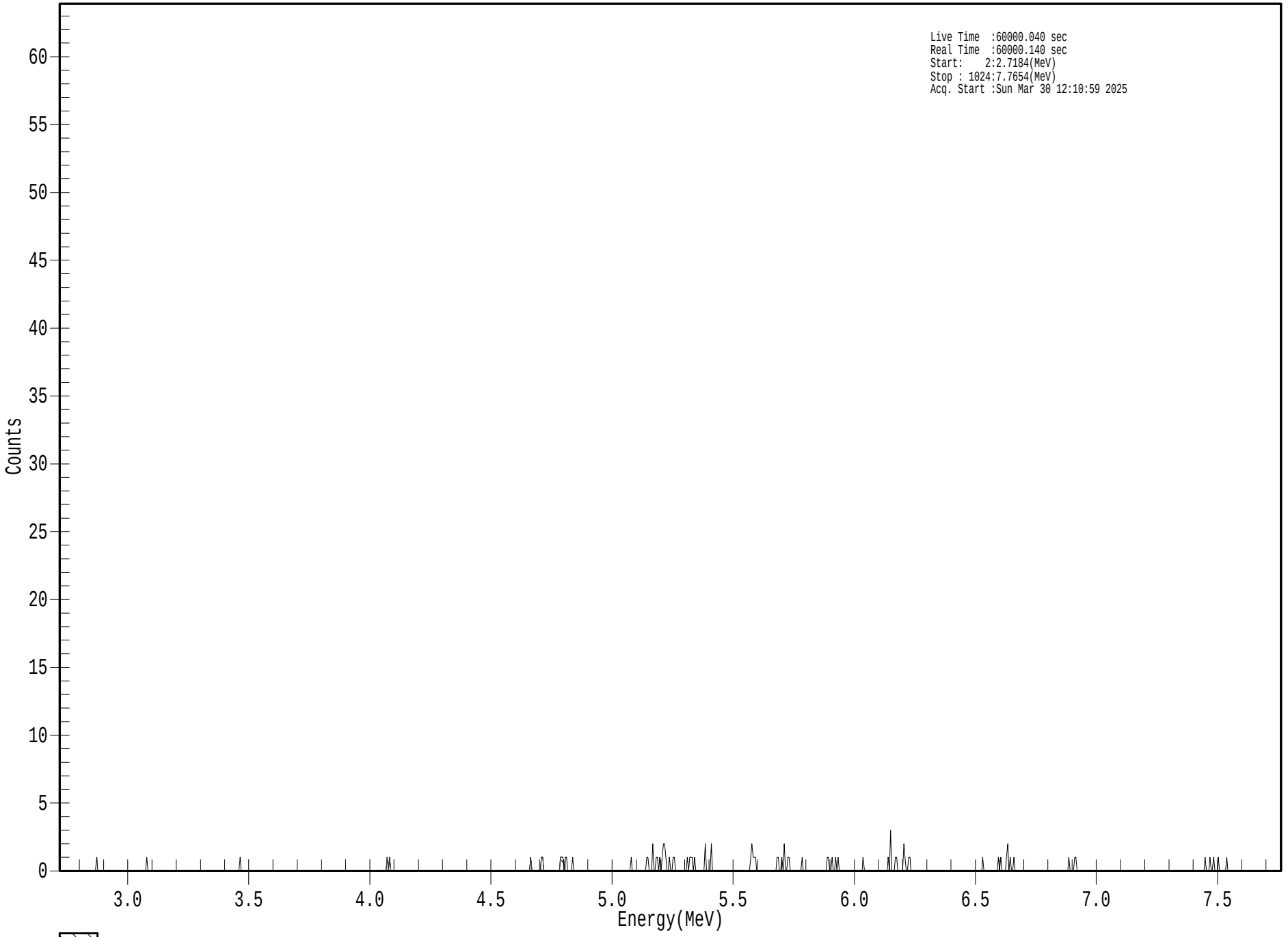
Detector Name: DET23
Sample Title: DET 23 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:01:23 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	272-	425	383.56	4602.67	4.94	9.00E+00	3.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

23.CNF


Live Time :60000.040 sec
Real Time :60000.140 sec
Start: 2:2.7184(MeV)
Stop : 1024:7.7654(MeV)
Acq. Start :Sun Mar 30 12:10:59 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\24.CNF

Report Generated On : 4/2/2025 1:03:51 PM

Sample Title : DET 24 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:01 PM

Live Time : 60000.1 seconds
Real Time : 60000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

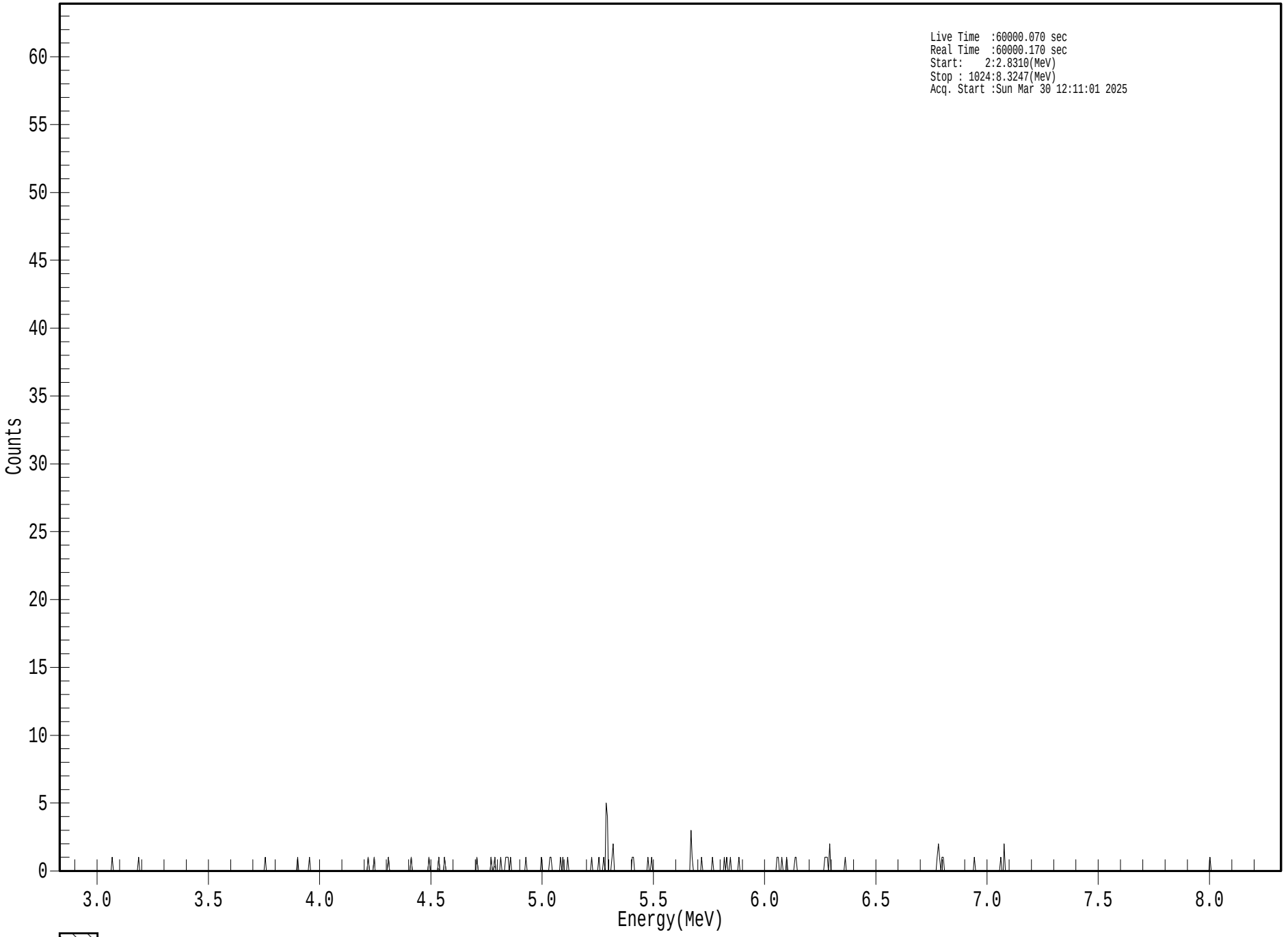
Detector Name: DET24
Sample Title: DET 24 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:03:51 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	229-	370	313.20	4503.86	5.38	1.00E+01	3.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

24.CNF


Live Time :60000.070 sec
Real Time :60000.170 sec
Start: 2:2.8310(MeV)
Stop : 1024:8.3247(MeV)
Acq. Start :Sun Mar 30 12:11:01 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

```
**************************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**************************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\25.CNF

Report Generated On             : 4/2/2025    1:06:16 PM

Sample Title                    : DET 25 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:11:10 PM

Live Time                       :    60000.1 seconds
Real Time                       :    60000.2 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

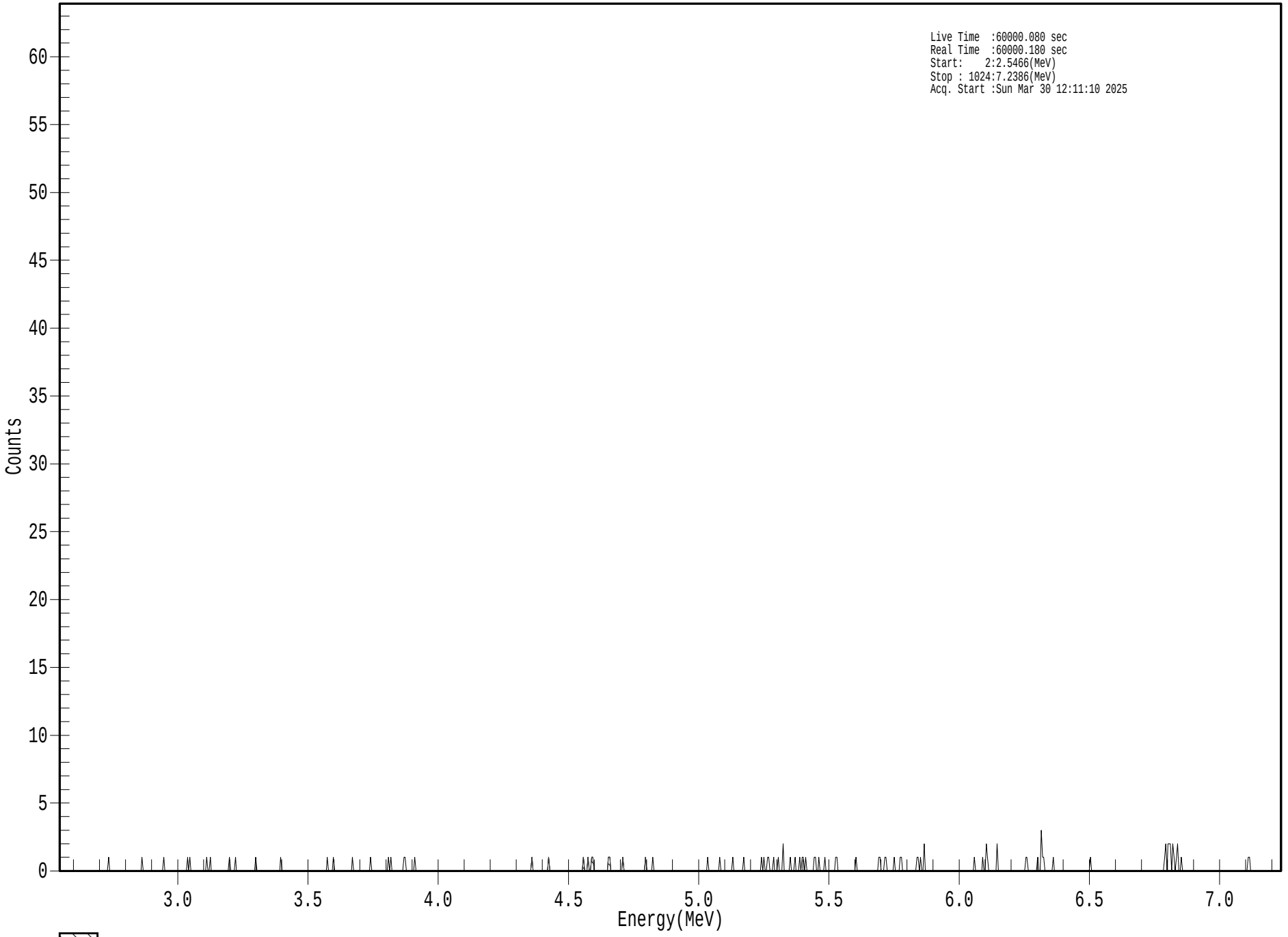
Detector Name: DET25
Sample Title: DET 25 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:06:16 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	330-	495	447.50	4591.91	4.59	1.00E+01	3.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

25.CNF


Live Time :60000.080 sec
Real Time :60000.180 sec
Start: 2:2.5466(MeV)
Stop : 1024:7.2386(MeV)
Acq. Start :Sun Mar 30 12:11:10 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\26.CNF

Report Generated On : 4/2/2025 1:08:38 PM

Sample Title : DET 26 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:12 PM

Live Time : 60000.2 seconds
Real Time : 60000.3 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

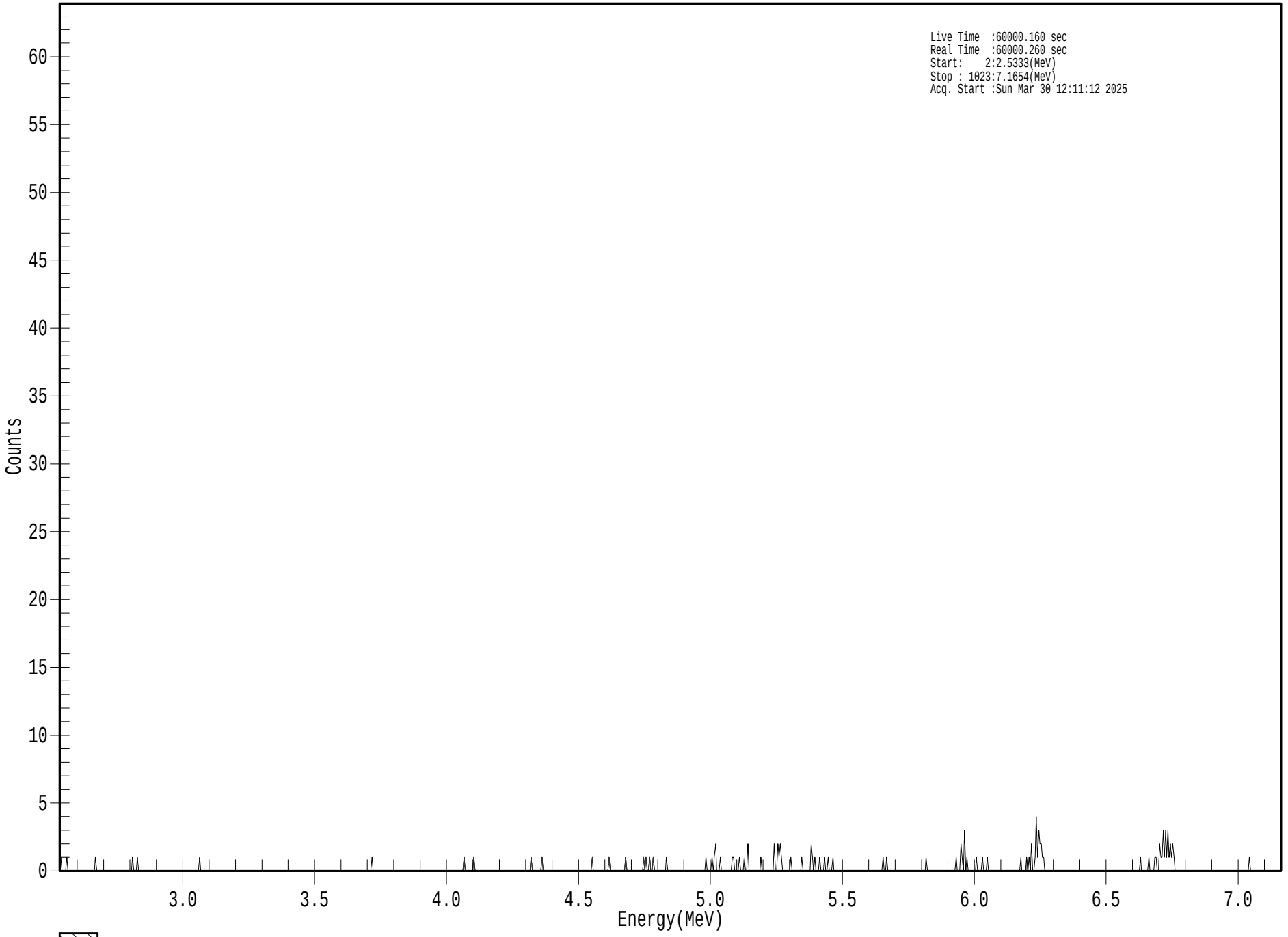
Detector Name: DET26
Sample Title: DET 26 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:08:38 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	337-	504	440.64	4523.33	4.54	1.10E+01	3.32	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

26.CNF


Live Time :60000.160 sec
Real Time :60000.260 sec
Start: 2:2.5333(MeV)
Stop : 1023:7.1654(MeV)
Acq. Start :Sun Mar 30 12:11:12 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\27..CNF

Report Generated On : 4/2/2025 1:10:37 PM

Sample Title : DET 27 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:14 PM

Live Time : 60000.0 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

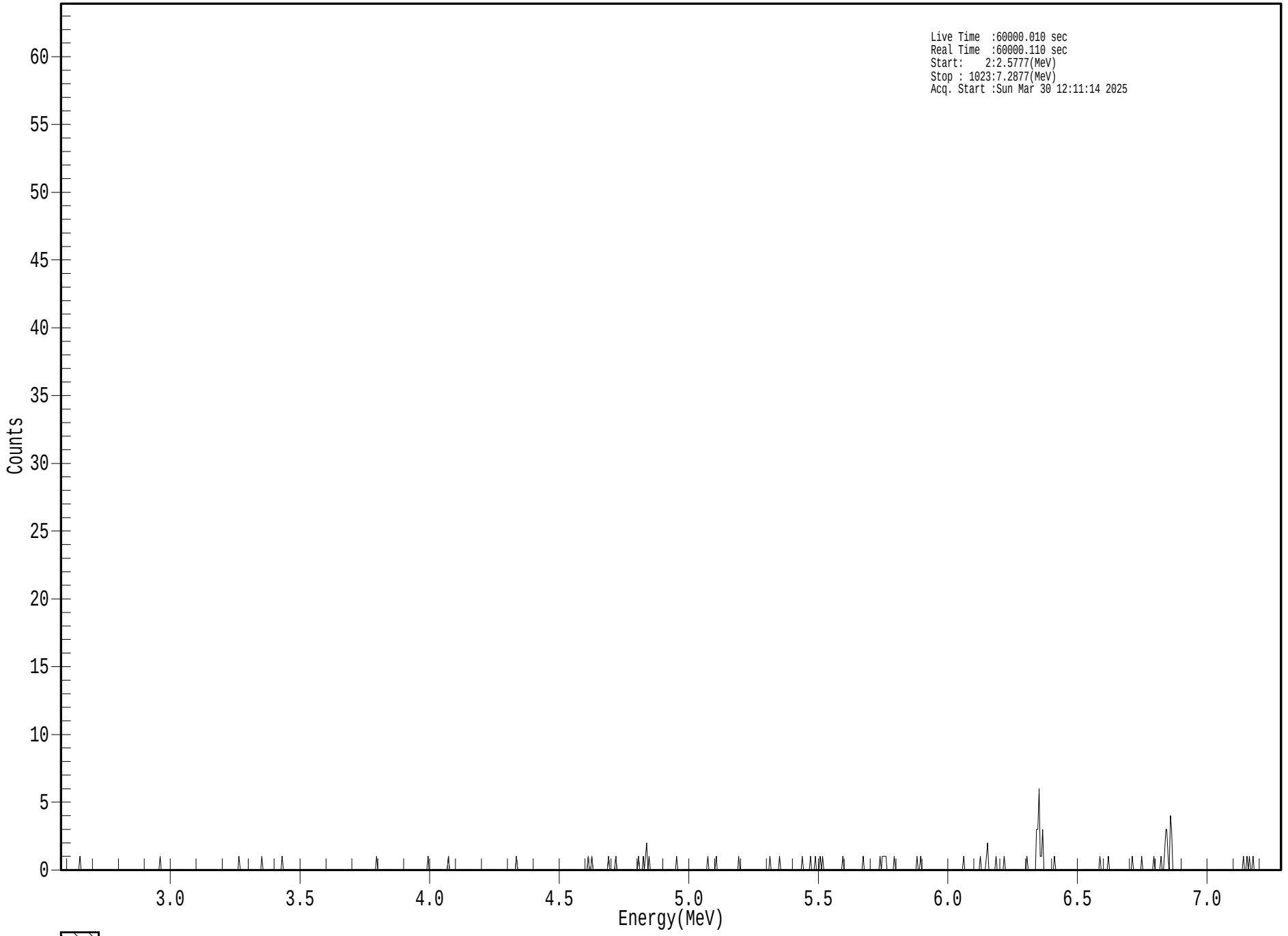
Detector Name: DET27
Sample Title: DET 27 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:10:37 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	321-	486	429.86	4551.46	4.61	7.00E+00	2.65	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

27..CNF


Live Time :60000.010 sec
Real Time :60000.110 sec
Start: 2:2.5777(MeV)
Stop : 1023:7.2877(MeV)
Acq. Start :Sun Mar 30 12:11:14 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\28.CNF

Report Generated On : 4/2/2025 1:13:17 PM

Sample Title : DET 28 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:15 PM

Live Time : 60000.1 seconds
Real Time : 60000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

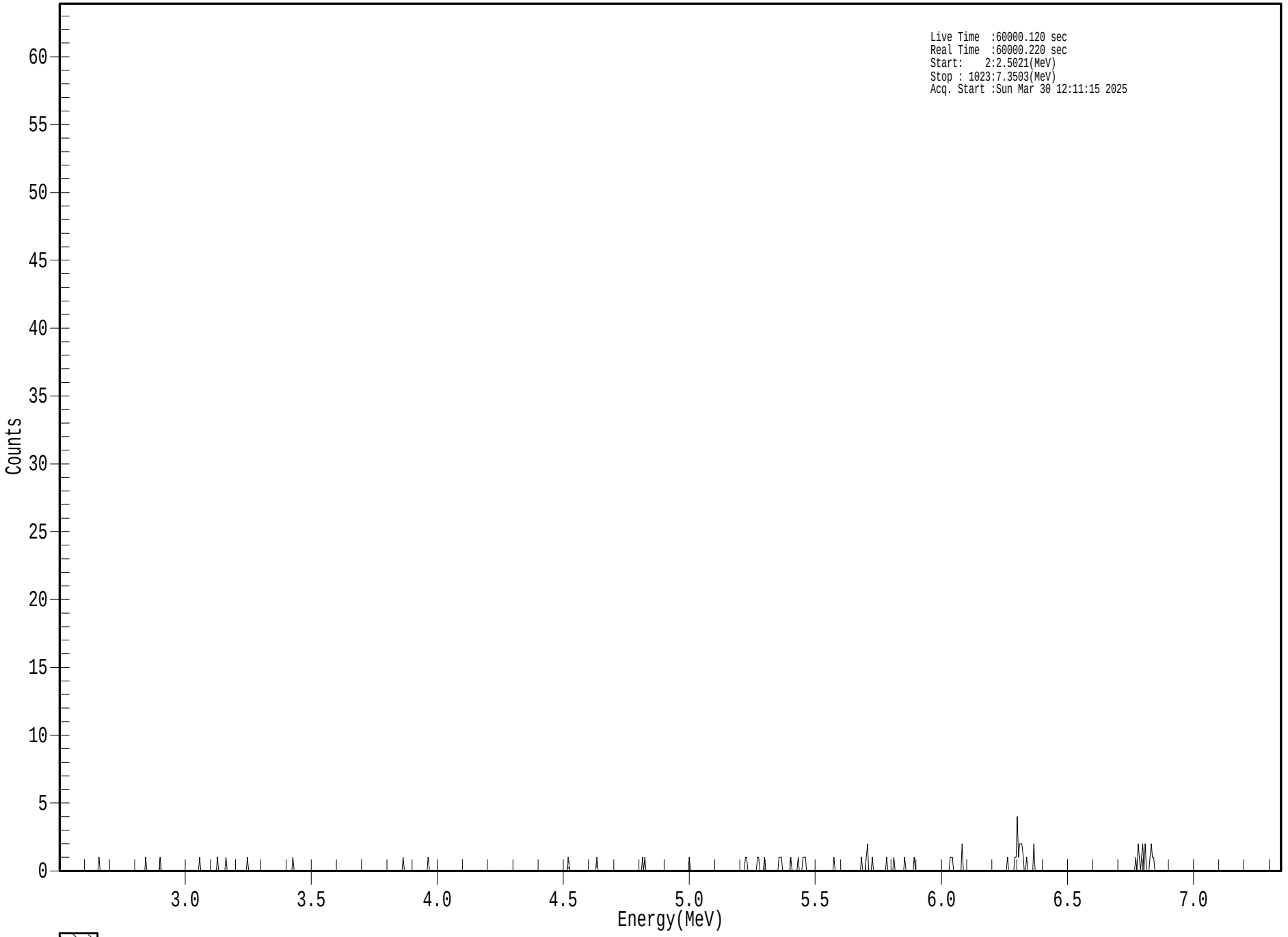
Detector Name: DET28
Sample Title: DET 28 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:13:17 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	328-	488	439.00	4577.18	4.75	2.00E+00	1.41	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

28.CNF


Live Time :60000.120 sec
Real Time :60000.220 sec
Start: 2:2.5021(MeV)
Stop : 1023:7.3503(MeV)
Acq. Start :Sun Mar 30 12:11:15 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\29.CNF

Report Generated On : 4/2/2025 1:14:48 PM

Sample Title : DET 29 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:17 PM

Live Time : 60000.1 seconds
Real Time : 60000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

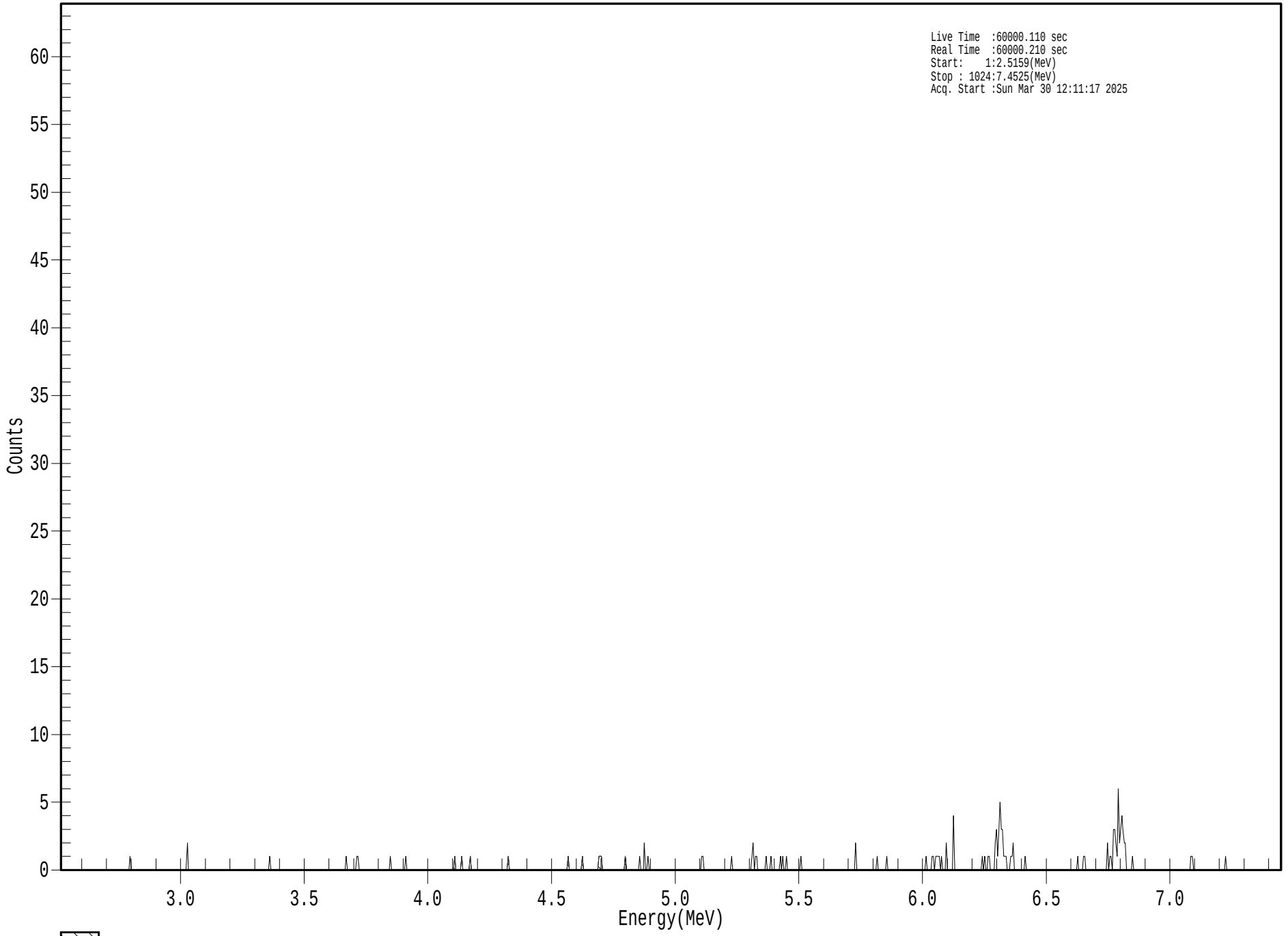
Detector Name: DET29
Sample Title: DET 29 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:14:48 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	319-	476	408.50	4482.36	4.83	1.00E+01	3.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

29.CNF


Live Time :60000.110 sec
Real Time :60000.210 sec
Start: 1:2.5159(MeV)
Stop : 1024:7.4525(MeV)
Acq. Start :Sun Mar 30 12:11:17 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\30.CNF

Report Generated On : 4/2/2025 1:16:52 PM

Sample Title : DET 30 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:11:18 PM

Live Time : 60000.1 seconds
Real Time : 60000.2 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

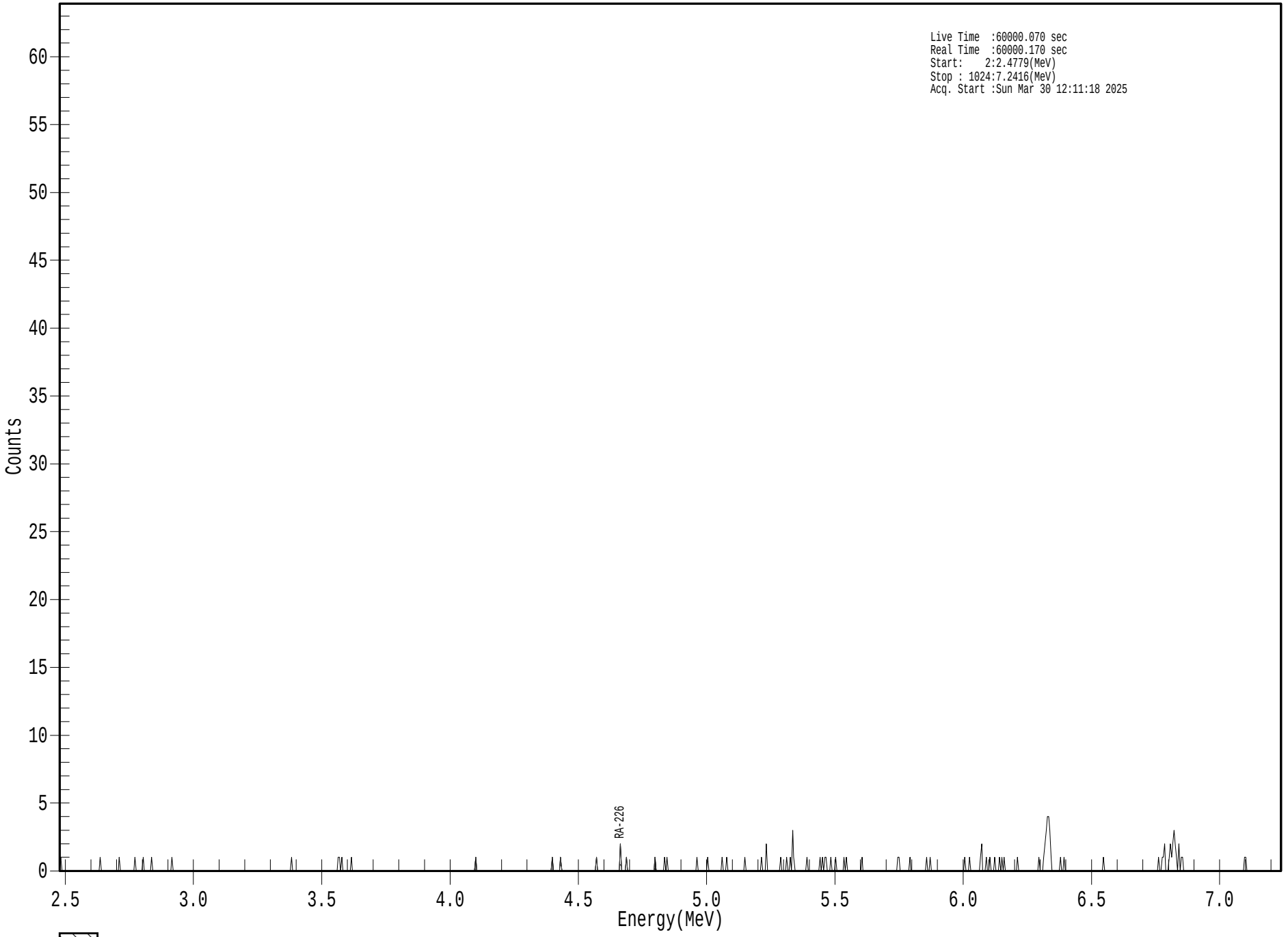
Detector Name: DET30
Sample Title: DET 30 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:16:52 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	340-	502	444.25	4539.30	4.66	8.00E+00	2.83	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

30.CNF


Live Time :60000.070 sec
Real Time :60000.170 sec
Start: 2:2.4779(MeV)
Stop : 1024:7.2416(MeV)
Acq. Start :Sun Mar 30 12:11:18 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

```
**************************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**************************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\32.CNF

Report Generated On             : 4/2/2025    1:18:51 PM

Sample Title                    : DET 32 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:11:20 PM

Live Time                       :    60000.1 seconds
Real Time                       :    60000.2 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

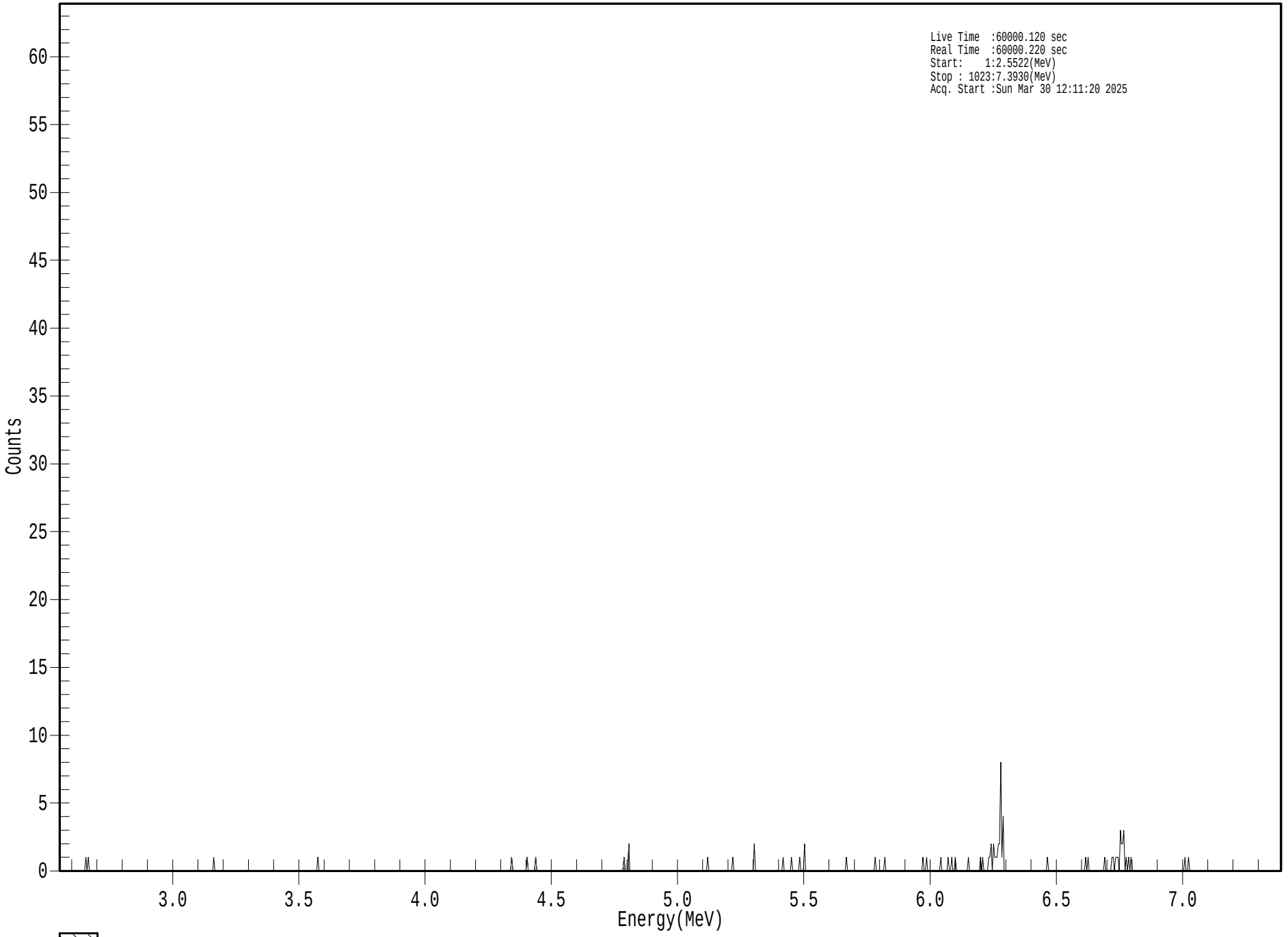
Detector Name: DET32
Sample Title: DET 32 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:18:51 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	318-	477	432.83	4597.64	4.74	6.00E+00	2.45	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

32.CNF


Live Time :60000.120 sec
Real Time :60000.220 sec
Start: 1:2.5522(MeV)
Stop : 1023:7.3930(MeV)
Acq. Start :Sun Mar 30 12:11:20 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\33.CNF

Report Generated On : 4/2/2025 1:20:47 PM

Sample Title : DET 33 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:08:51 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

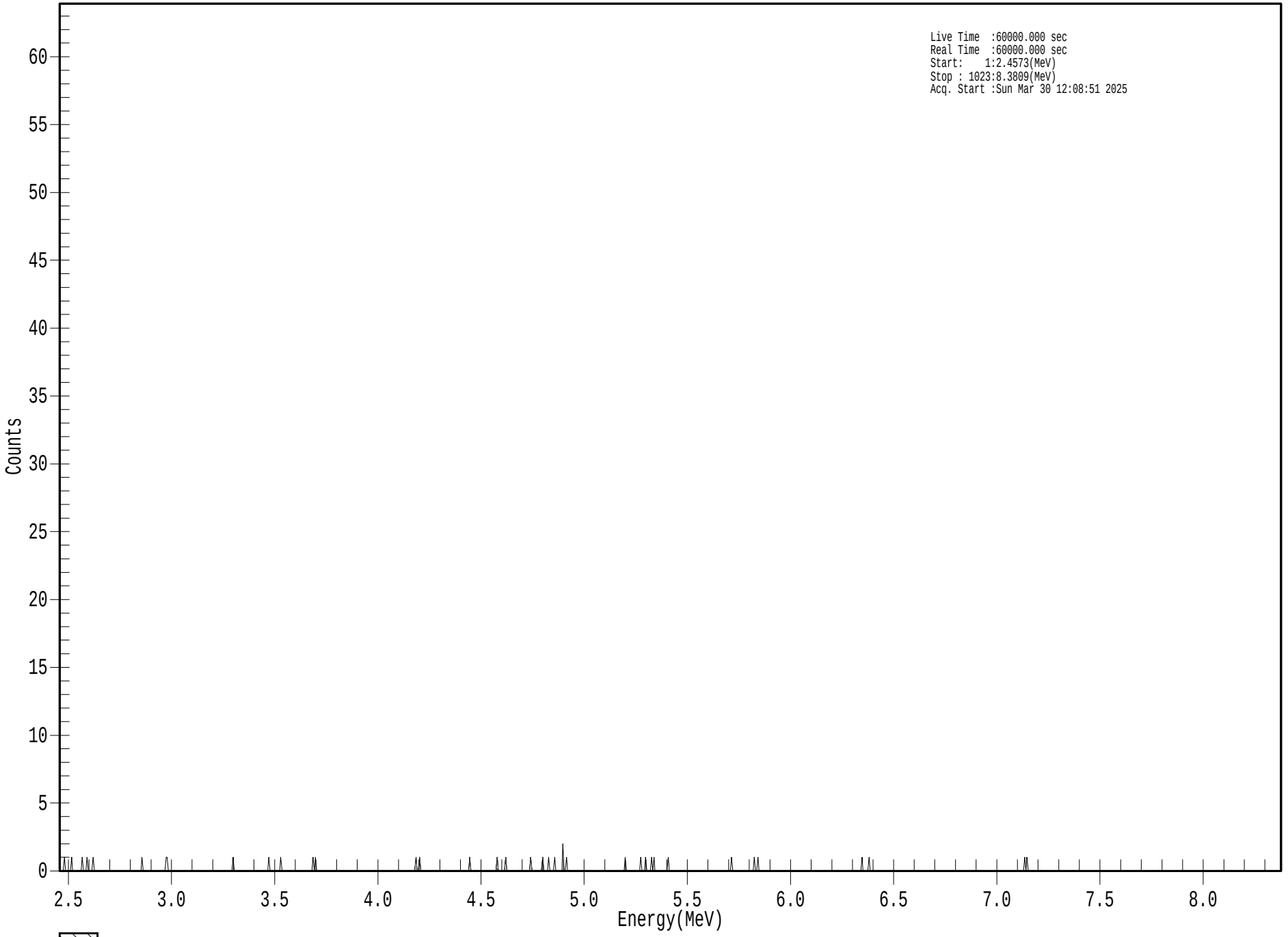
Detector Name: A_4_1A
Sample Title: DET 33 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:20:47 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	276-	407	355.14	4509.97	5.80	7.00E+00	2.65	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

33.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4573(MeV)
Stop : 1023:8.3809(MeV)
Acq. Start :Sun Mar 30 12:08:51 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\34.CNF

Report Generated On : 4/2/2025 1:29:27 PM

Sample Title : DET 34 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:08:52 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

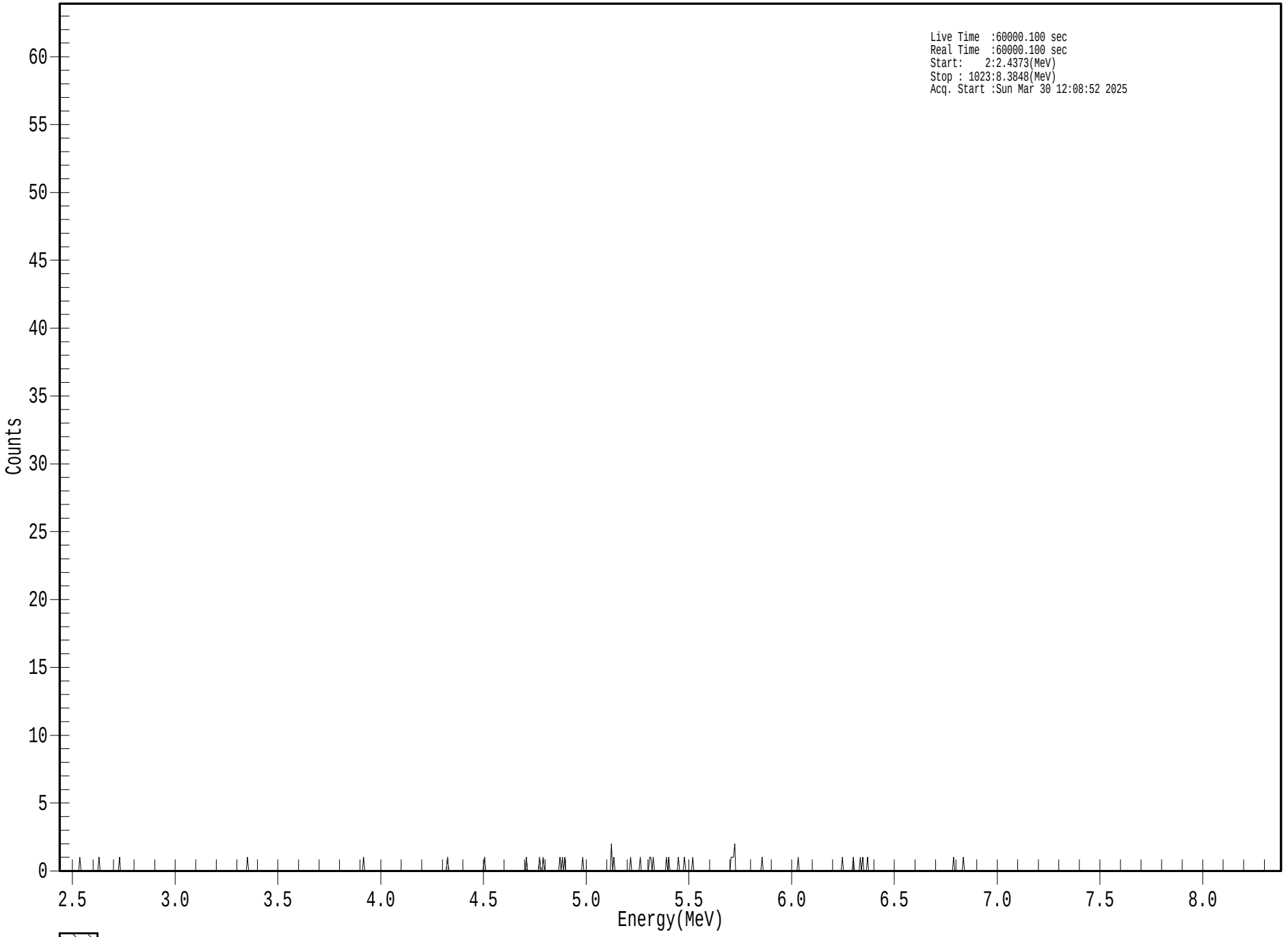
Detector Name: A_4_1B
Sample Title: DET 34 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:29:27 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	279-	409	376.80	4620.56	5.83	5.00E+00	2.24	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

34.CNF


Live Time :60000.100 sec
Real Time :60000.100 sec
Start: 2:2.4373(MeV)
Stop : 1023:8.3848(MeV)
Acq. Start :Sun Mar 30 12:08:52 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\35.CNF

Report Generated On : 4/2/2025 1:31:33 PM

Sample Title : DET 35 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:08:54 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

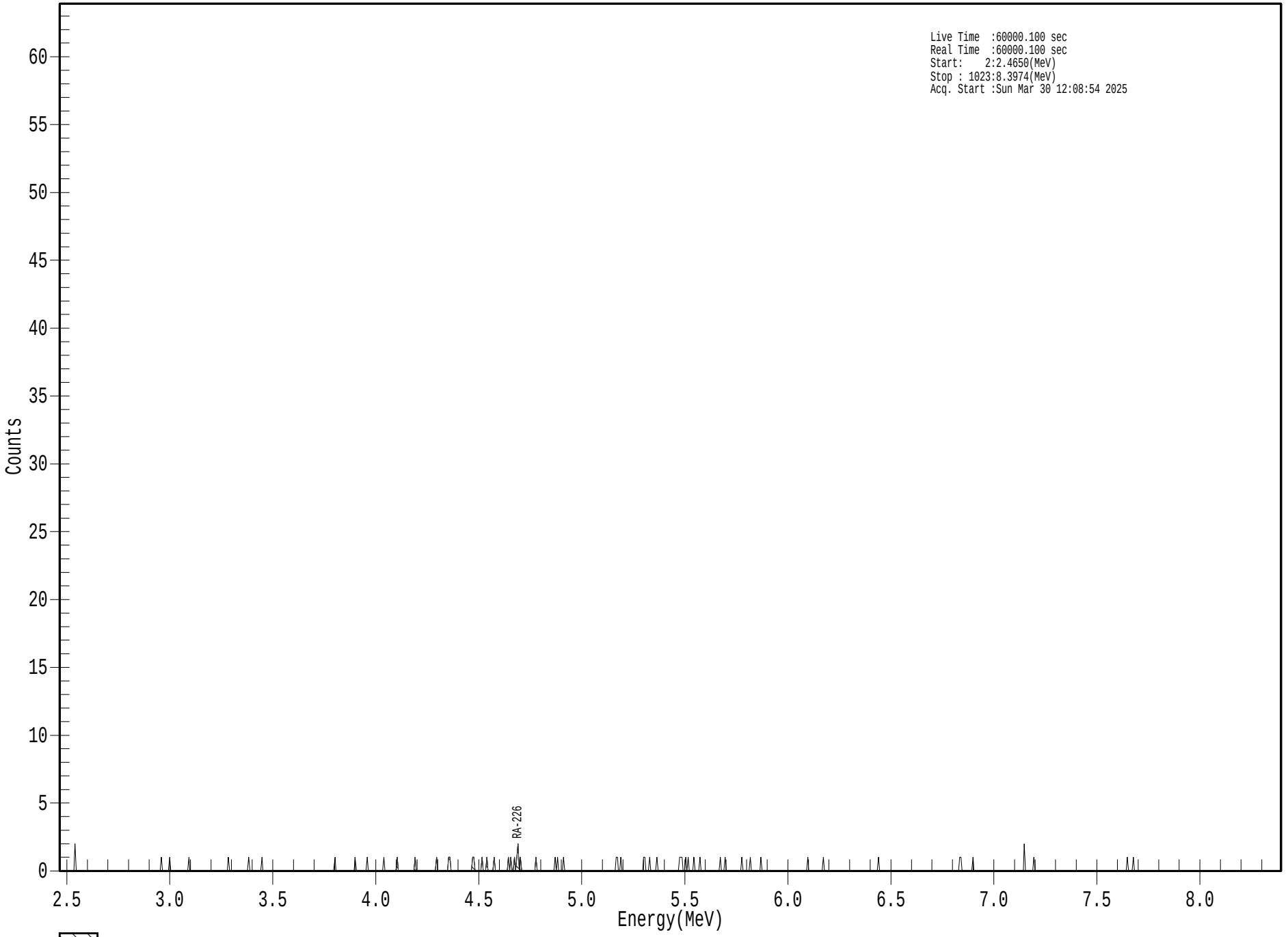
Detector Name: A_4_2A
Sample Title: DET 35 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:31:33 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	275-	405	356.00	4521.86	8.72	1.80E+01	4.24	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

35.CNF


Live Time :60000.100 sec
Real Time :60000.100 sec
Start: 2:2.4650(MeV)
Stop : 1023:8.3974(MeV)
Acq. Start :Sun Mar 30 12:08:54 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\36.CNF

Report Generated On : 4/2/2025 1:33:48 PM

Sample Title : DET 36 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:08:56 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

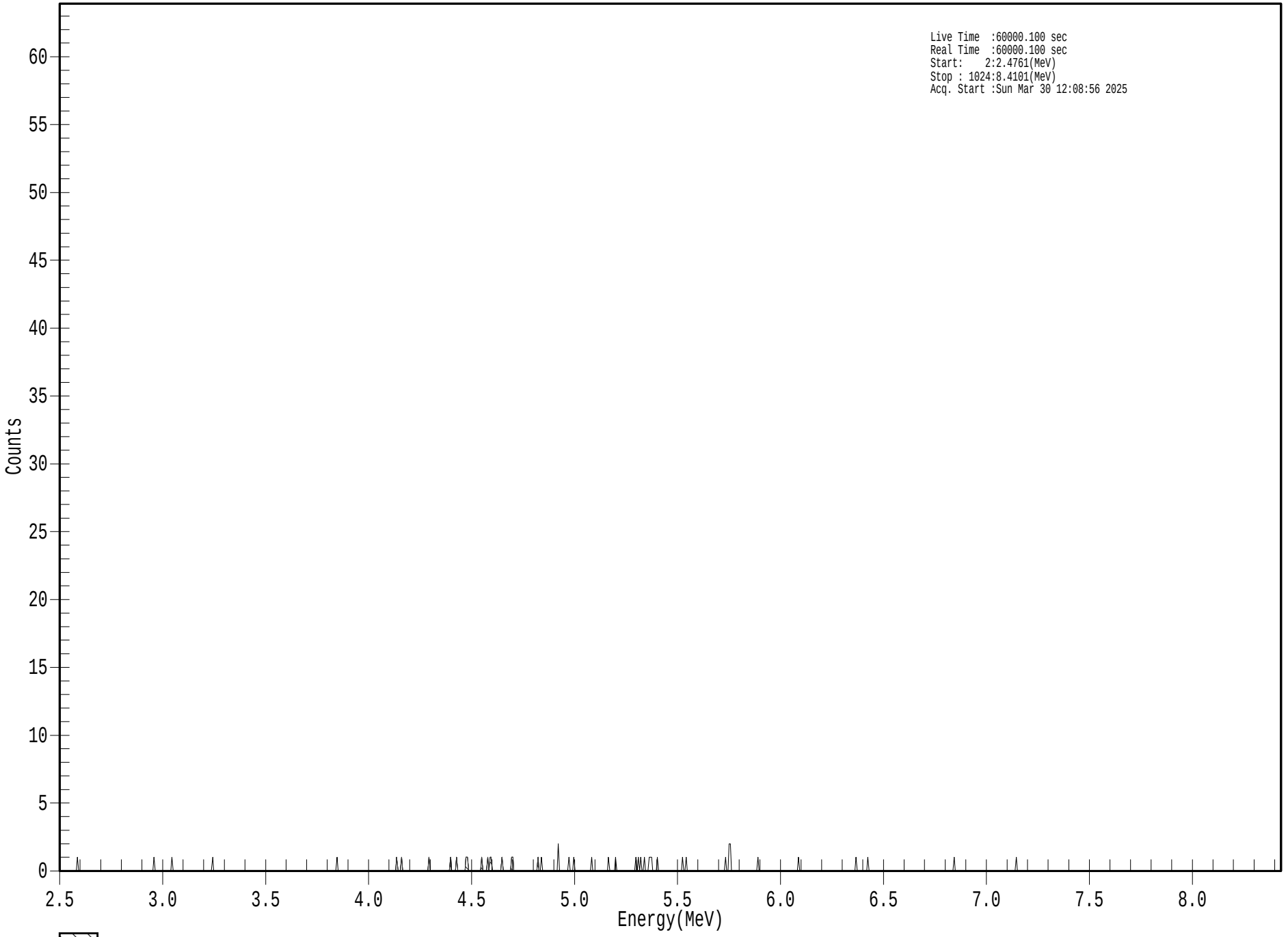
Detector Name: A_4_2B
Sample Title: DET 36 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:33:48 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	273-	404	347.07	4479.62	5.81	1.50E+01	3.87	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

36.CNF


Live Time :60000.100 sec
Real Time :60000.100 sec
Start: 2:2.4761(MeV)
Stop : 1024:8.4101(MeV)
Acq. Start :Sun Mar 30 12:08:56 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

```
**************************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**************************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\37.CNF

Report Generated On             : 4/2/2025    1:35:50 PM

Sample Title                    : DET 37 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:08:58 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.0 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

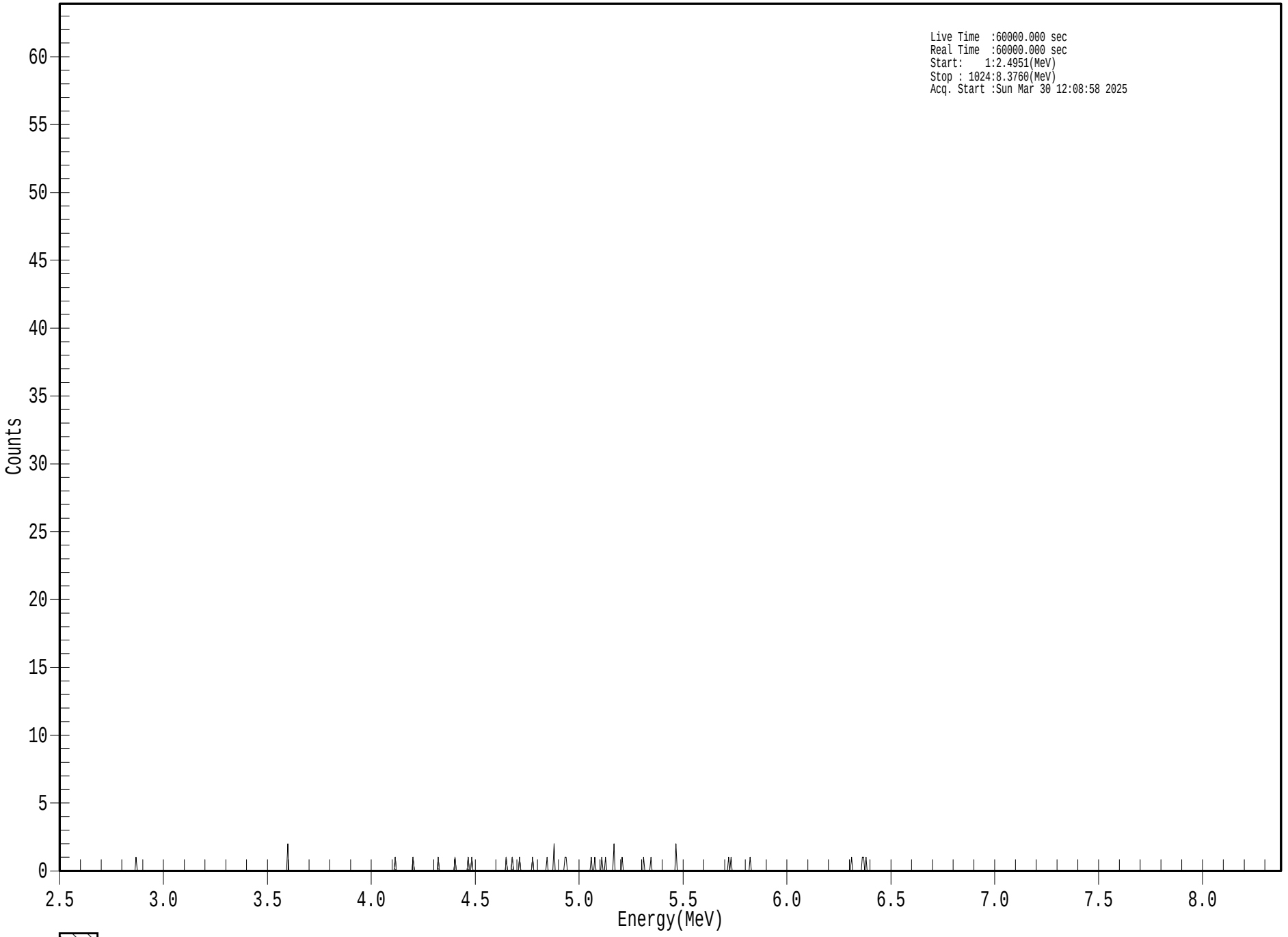
Detector Name: A_4_3A
Sample Title: DET 37 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:35:50 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	272-	403	345.60	4476.10	5.75	1.00E+01	3.16	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

37.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4951(MeV)
Stop : 1024:8.3760(MeV)
Acq. Start :Sun Mar 30 12:08:58 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\38.CNF

Report Generated On : 4/2/2025 1:37:55 PM

Sample Title : DET 38 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:01 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

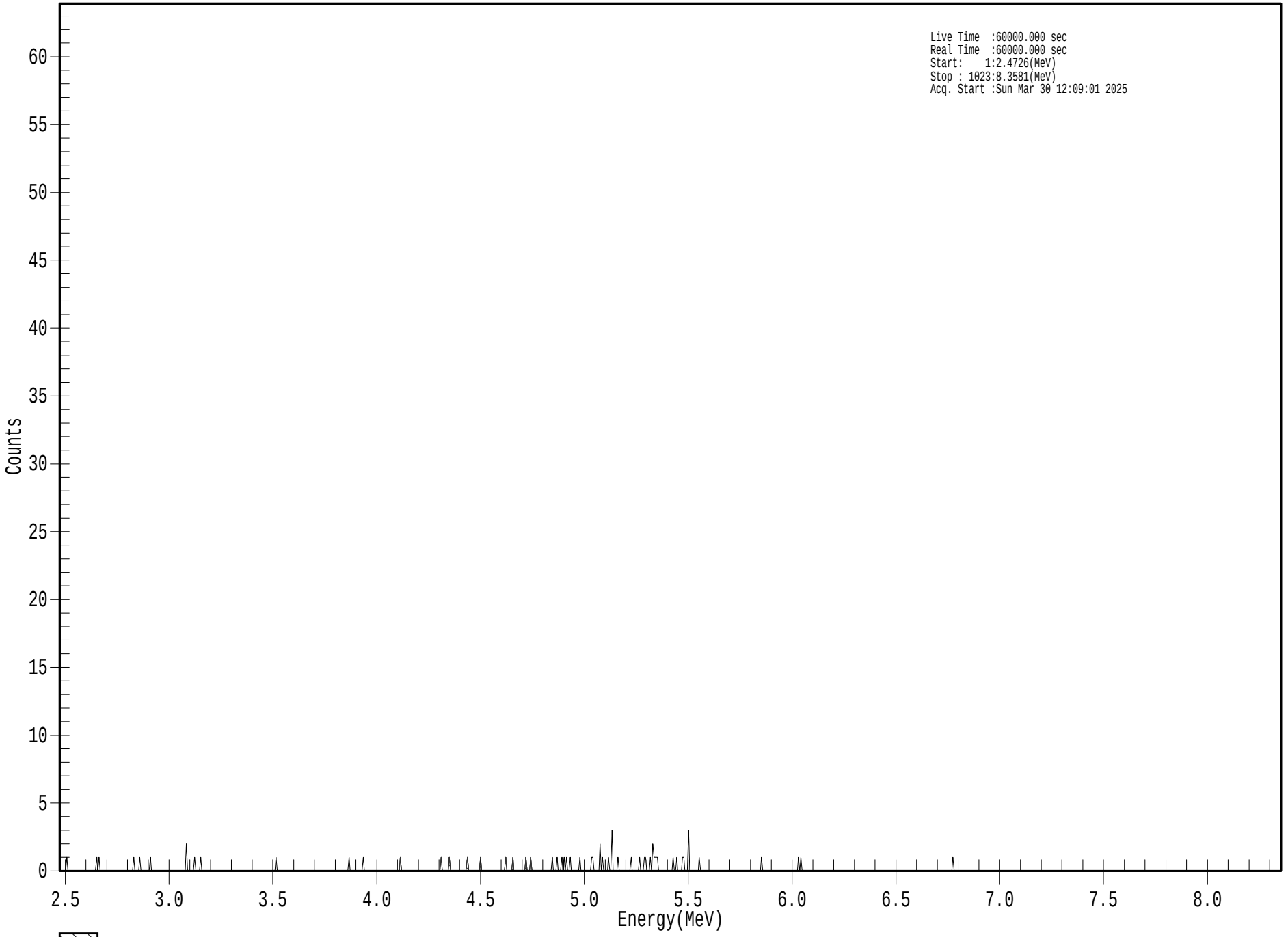
Detector Name: A_4_3B
Sample Title: DET 38 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:37:55 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	275-	407	352.00	4493.94	5.76	9.00E+00	3.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

38.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4726(MeV)
Stop : 1023:8.3581(MeV)
Acq. Start :Sun Mar 30 12:09:01 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\39.CNF

Report Generated On : 4/2/2025 1:40:03 PM

Sample Title : DET 39 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:02 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

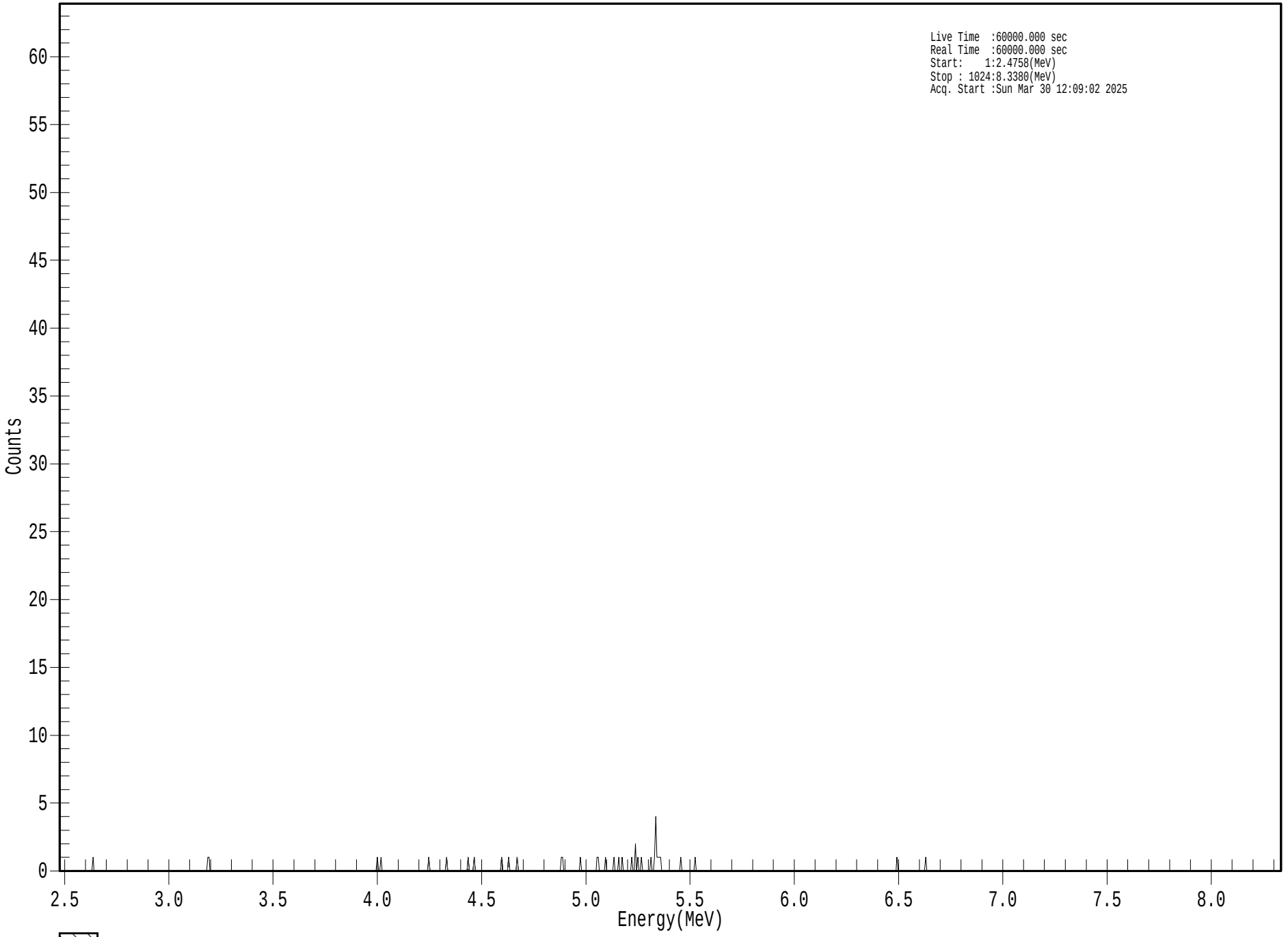
Detector Name: A_4_4A
Sample Title: DET 39 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:40:03 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	276-	408	351.14	4482.27	5.73	7.00E+00	2.65	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

39.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4758(MeV)
Stop : 1024:8.3380(MeV)
Acq. Start :Sun Mar 30 12:09:02 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\40.CNF

Report Generated On : 4/2/2025 1:41:55 PM

Sample Title : DET 40 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:04 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

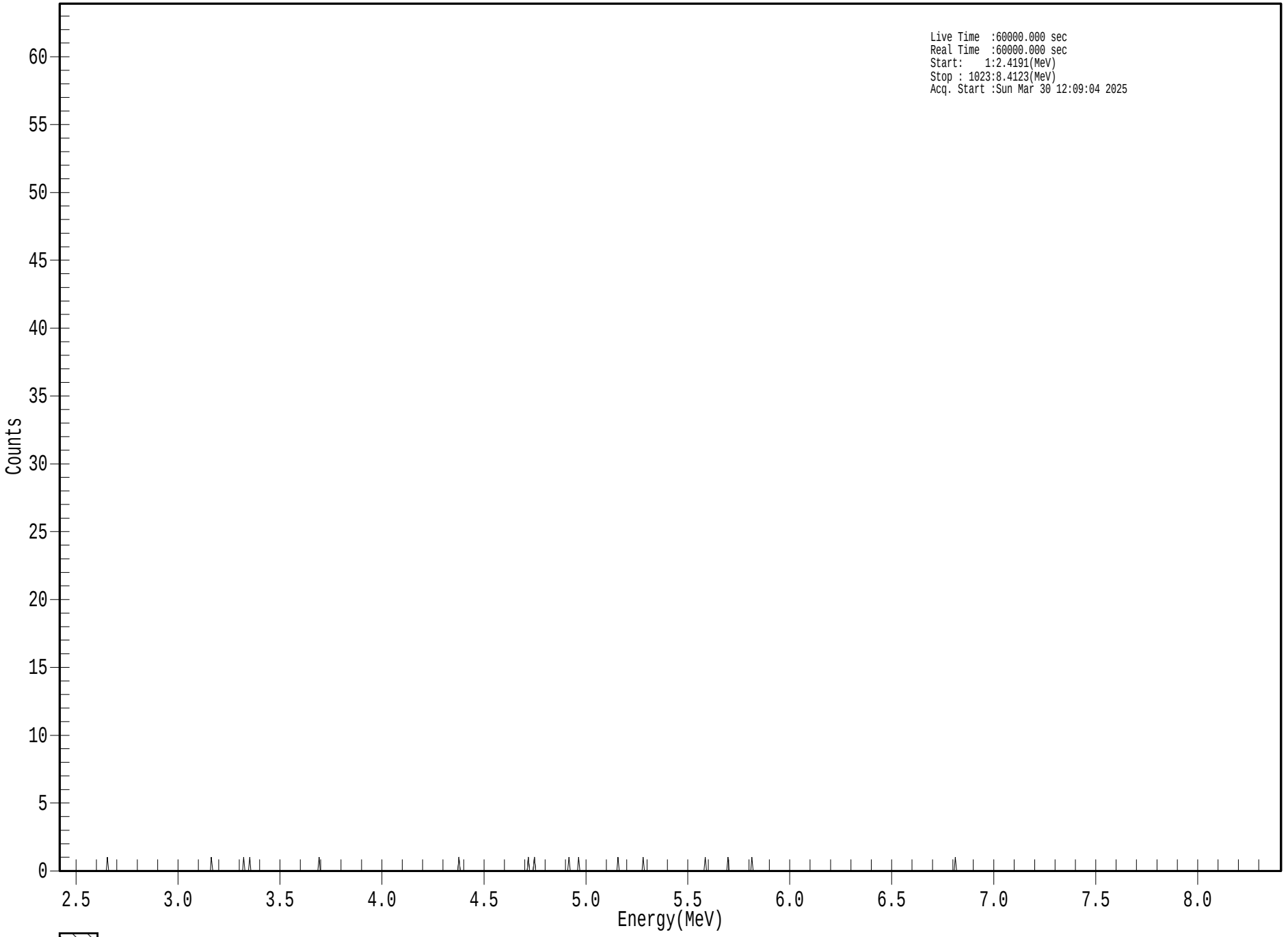
Detector Name: A_4_4B
Sample Title: DET 40 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:41:55 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	279-	408	375.33	4614.28	5.86	3.00E+00	1.73	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

40.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4191(MeV)
Stop : 1023:8.4123(MeV)
Acq. Start :Sun Mar 30 12:09:04 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

```
**************************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**************************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\41.CNF

Report Generated On             : 4/2/2025    1:51:02 PM

Sample Title                    : DET 41 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:09:06 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.0 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

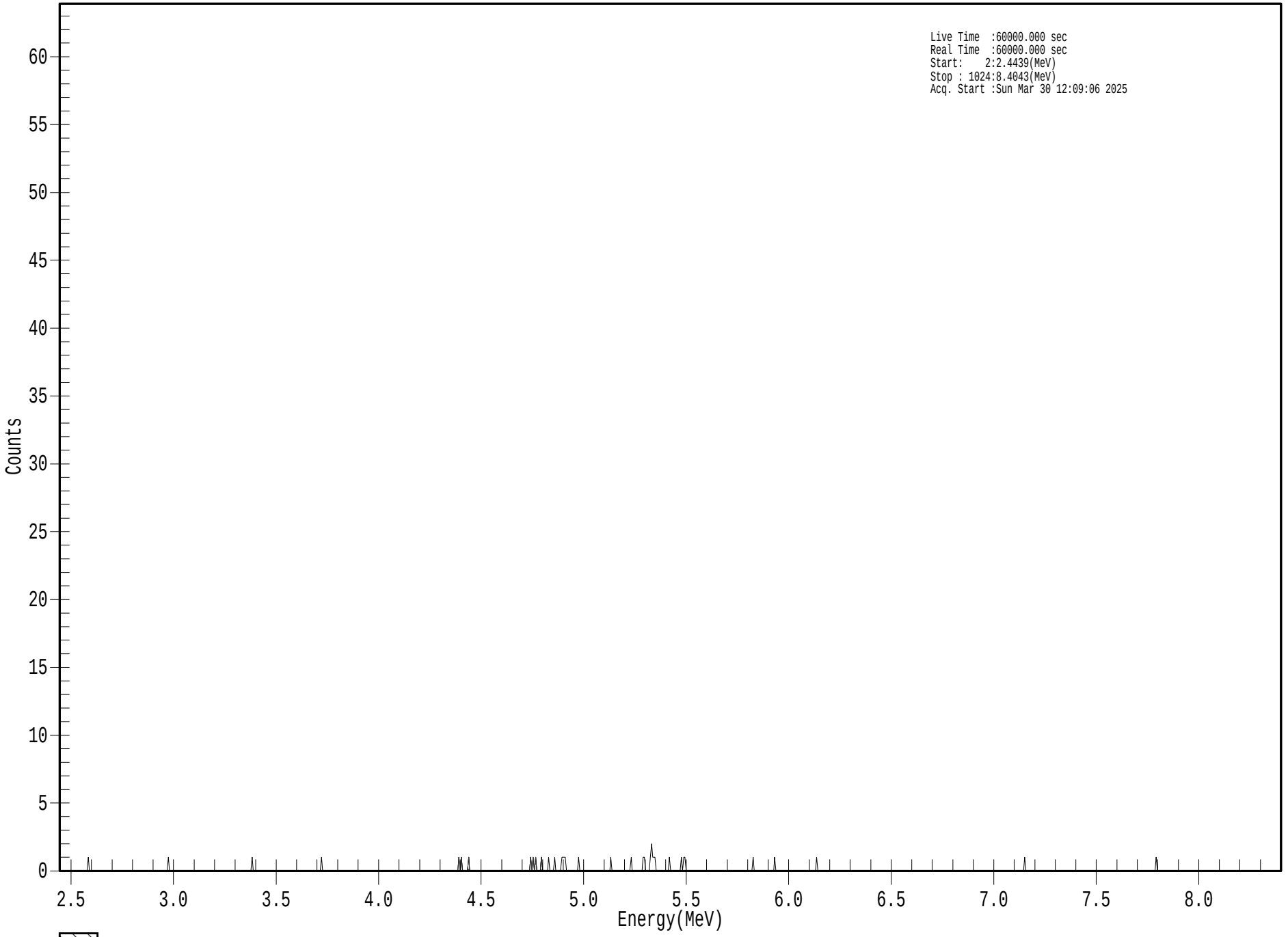
Detector Name: A_4_5A
Sample Title: DET 41 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 1:51:02 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	278-	407	373.86	4612.61	5.83	7.00E+00	2.65	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

41.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4439(MeV)
Stop : 1024:8.4043(MeV)
Acq. Start :Sun Mar 30 12:09:06 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\42.CNF

Report Generated On : 4/2/2025 2:26:06 PM

Sample Title : DET 42 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:08 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

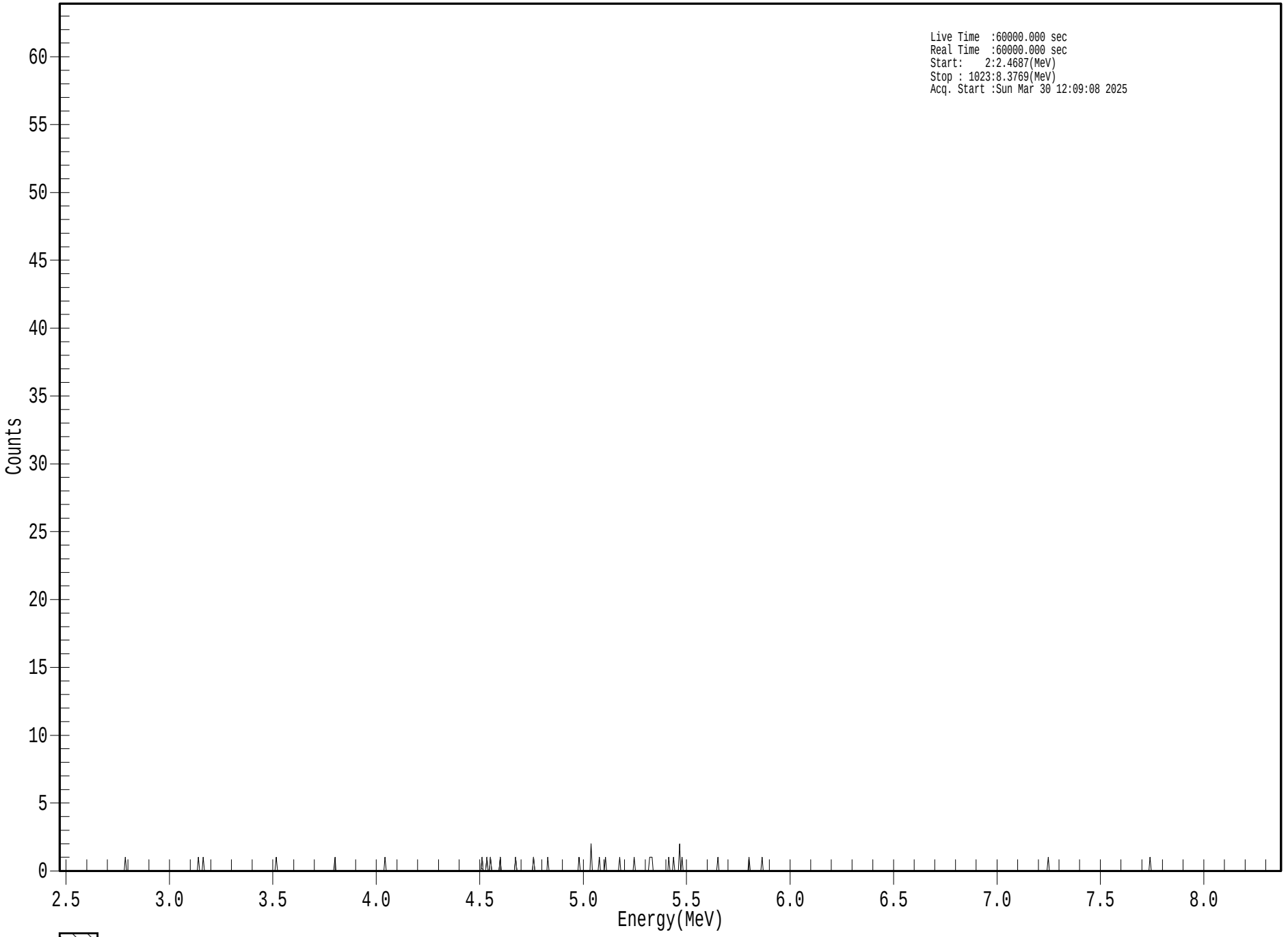
Detector Name: A_4_5B
Sample Title: DET 42 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 2:26:06 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	275-	406	371.17	4604.94	5.79	6.00E+00	2.45	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

42.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4687(MeV)
Stop : 1023:8.3769(MeV)
Acq. Start :Sun Mar 30 12:09:08 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

```
**************************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**************************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\43.CNF

Report Generated On             : 4/2/2025    2:28:01 PM

Sample Title                    : DET 43 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:09:09 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.0 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

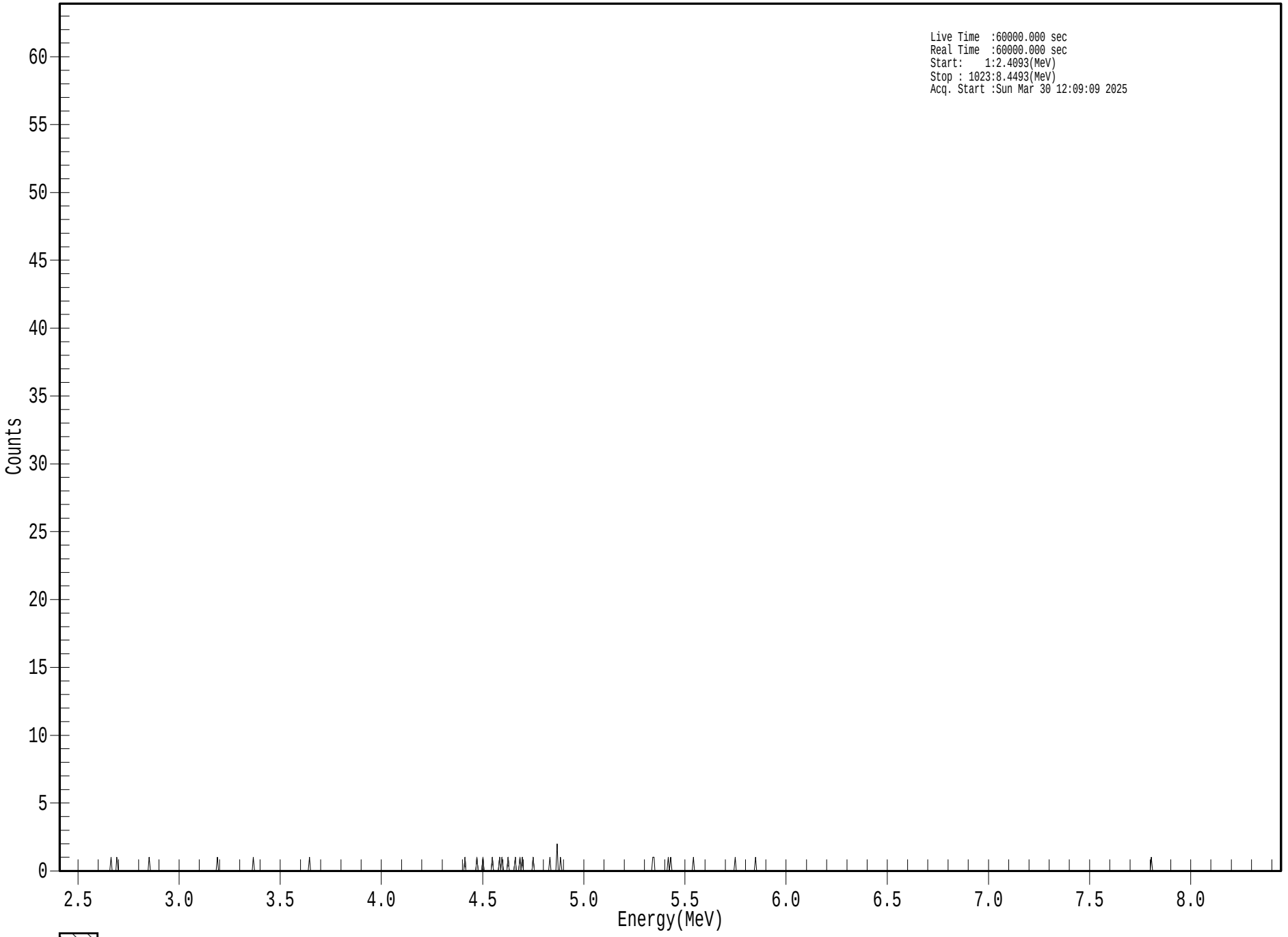
Detector Name: A_4_6A
Sample Title: DET 43 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 2:28:01 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	279-	407	370.64	4593.87	5.91	1.10E+01	3.32	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

43.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4093(MeV)
Stop : 1023:8.4493(MeV)
Acq. Start :Sun Mar 30 12:09:09 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

```
**************************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**************************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\44.CNF

Report Generated On             : 4/2/2025    2:29:36 PM

Sample Title                    : DET 44 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:09:11 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.0 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

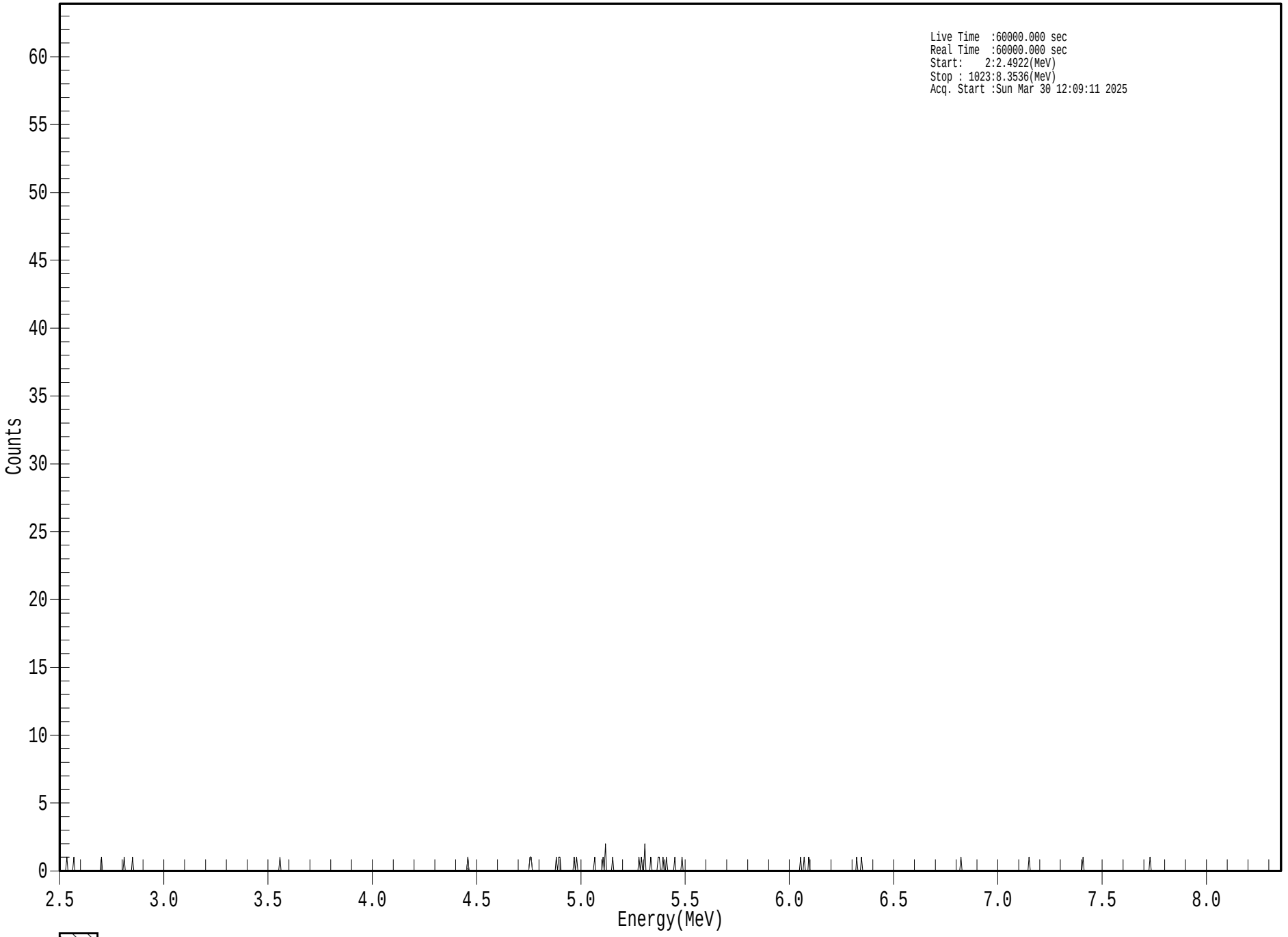
Detector Name: A_4_6B
Sample Title: DET 44 APRIL BKG 033025
Peak Analysis Performed on: 4/2/2025 2:29:36 PM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	274-	406	378.00	4650.76	5.74	3.00E+00	1.73	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

44.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4922(MeV)
Stop : 1023:8.3536(MeV)
Acq. Start :Sun Mar 30 12:09:11 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\51.CNF

Report Generated On : 4/3/2025 9:21:06 AM

Sample Title : DET 51 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:17 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

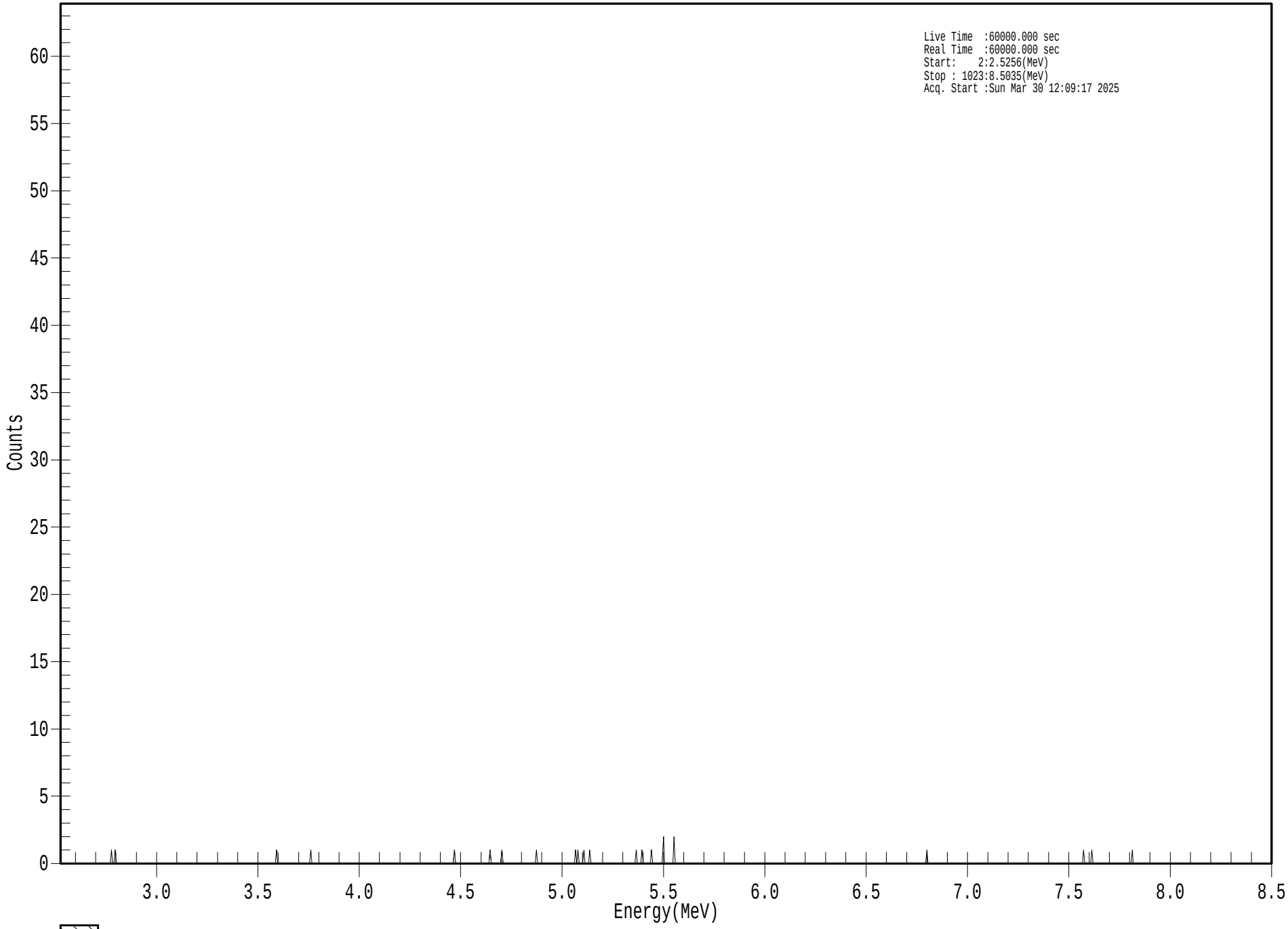
Detector Name: A_1_4A
Sample Title: DET 51 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 9:21:06 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	262-	392	357.33	4606.05	5.85	3.00E+00	1.73	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

51.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.5256(MeV)
Stop : 1023:8.5035(MeV)
Acq. Start :Sun Mar 30 12:09:17 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
Energy(MeV)
ROI Type: 1

```
**************************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**************************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\52.CNF

Report Generated On             : 4/3/2025    9:23:39 AM

Sample Title                    : DET 52 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:09:19 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.0 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 1/3/2025
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

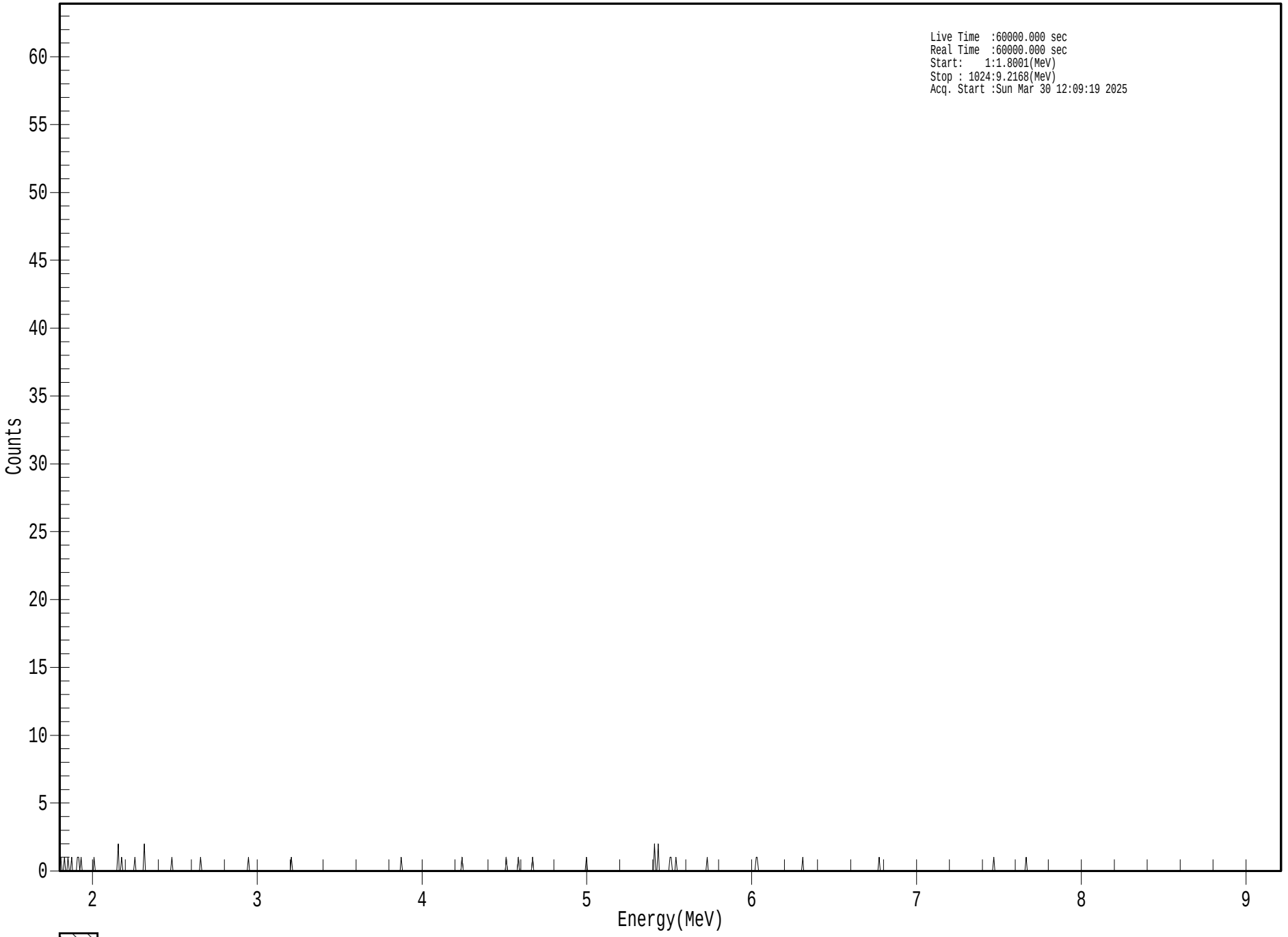
Detector Name: A_1_4B
Sample Title: DET 52 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 9:23:39 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	311-	416	373.75	4502.53	7.25	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

52.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:1.8001(MeV)
Stop : 1024:9.2168(MeV)
Acq. Start :Sun Mar 30 12:09:19 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2
3
4
5
6
7
8
9
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\55.CNF

Report Generated On : 4/3/2025 9:25:32 AM

Sample Title : DET 55 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:21 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 3/27/2025
Efficiency Calibration Used Done On : 3/27/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

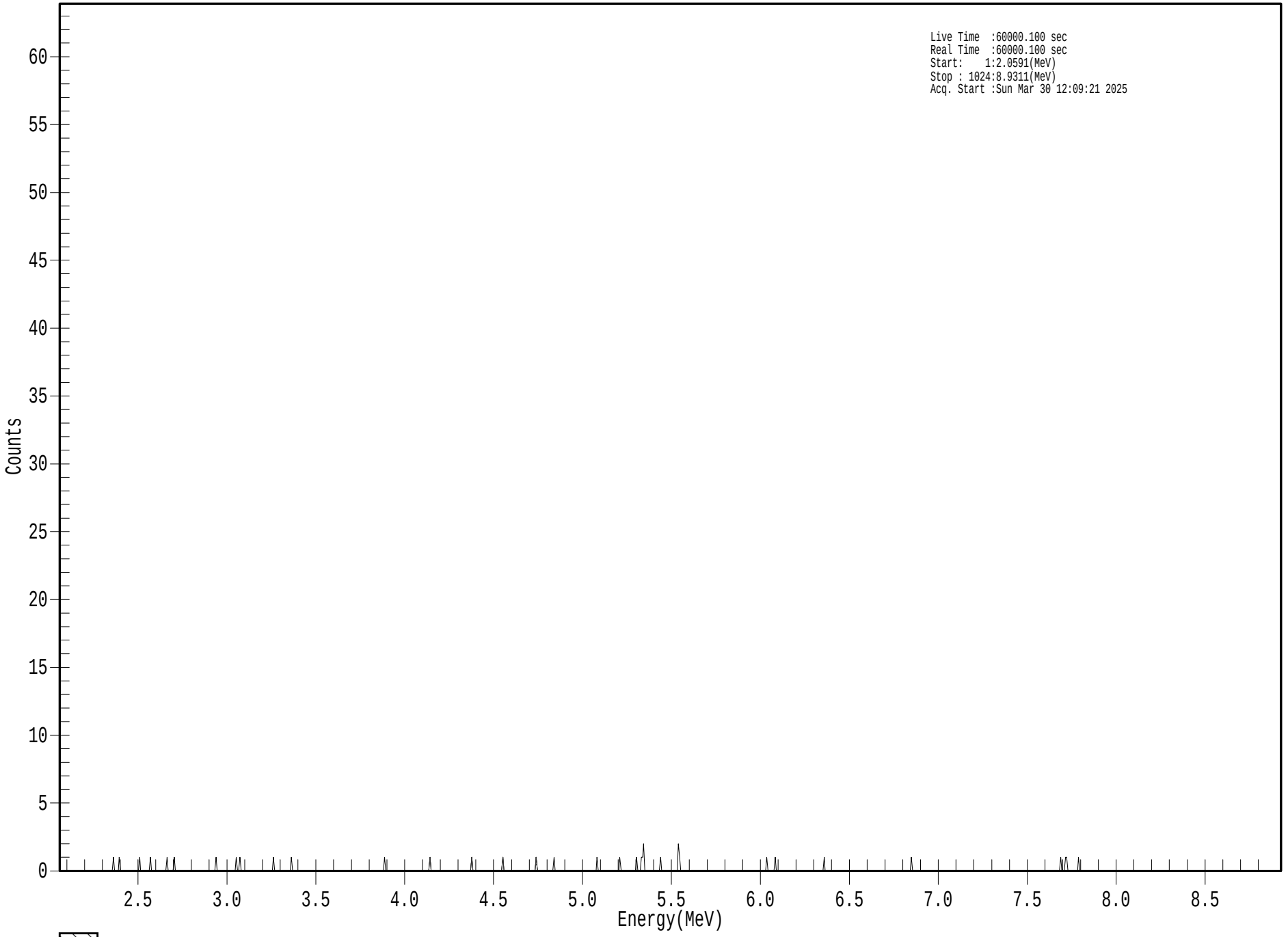
Detector Name: A_1_6A
Sample Title: DET 55 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 9:25:32 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	297-	410	357.25	4452.22	6.72	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

55.CNF


Live Time :60000.100 sec
Real Time :60000.100 sec
Start: 1:2.0591(MeV)
Stop : 1024:8.9311(MeV)
Acq. Start :Sun Mar 30 12:09:21 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\56.CNF

Report Generated On : 4/3/2025 10:44:43 AM

Sample Title : DET 56 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:23 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

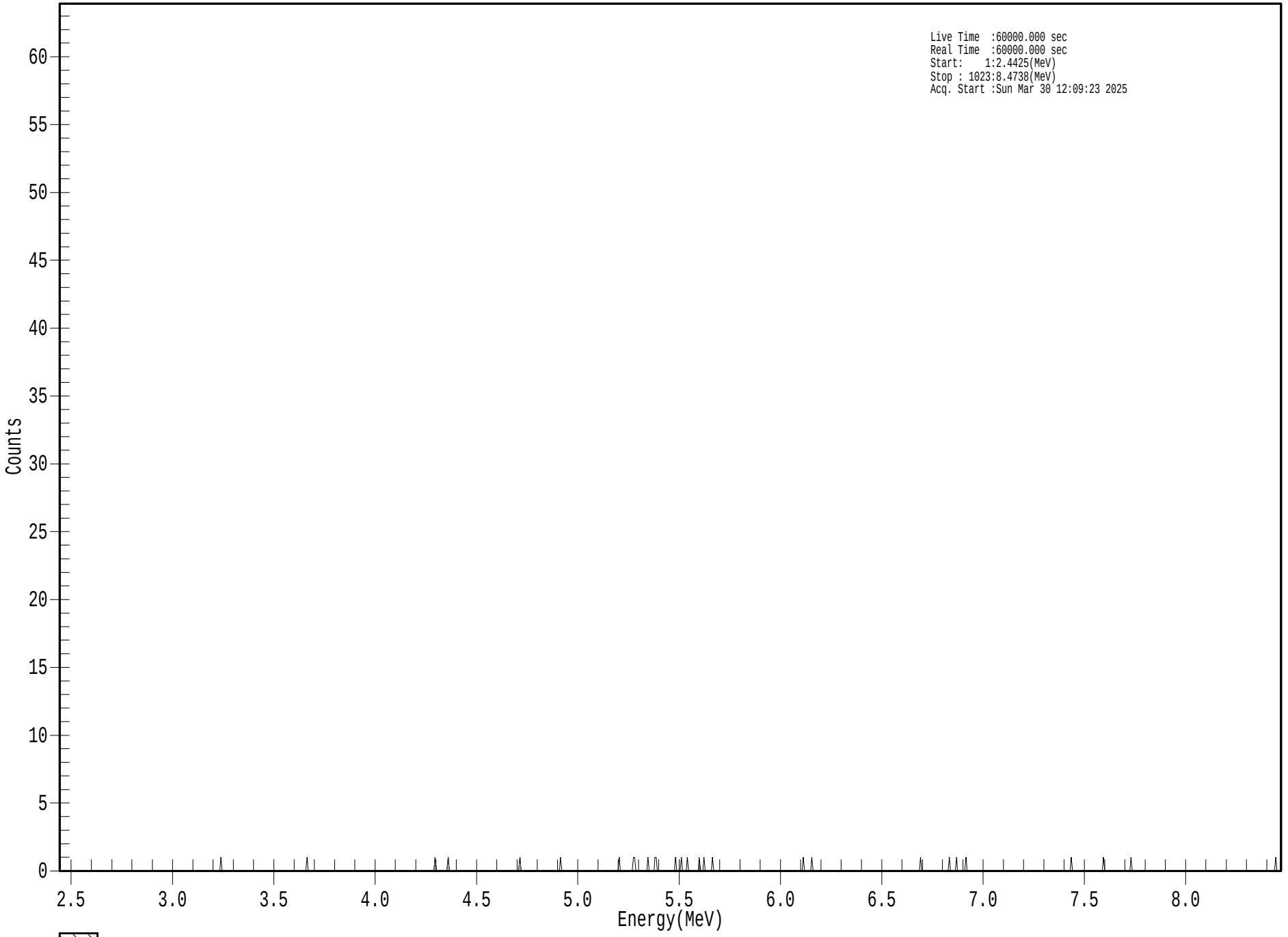
Detector Name: A_1_6B
Sample Title: DET 56 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 10:44:43 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	274-	402	342.33	4456.89	5.90	3.00E+00	1.73	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

56.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4425(MeV)
Stop : 1023:8.4738(MeV)
Acq. Start :Sun Mar 30 12:09:23 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\57.CNF

Report Generated On             : 4/3/2025   10:46:30 AM

Sample Title                    : DET 57 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:09:30 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.0 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 3/28/2025
              Efficiency Calibration Used Done On   : 3/28/2025
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

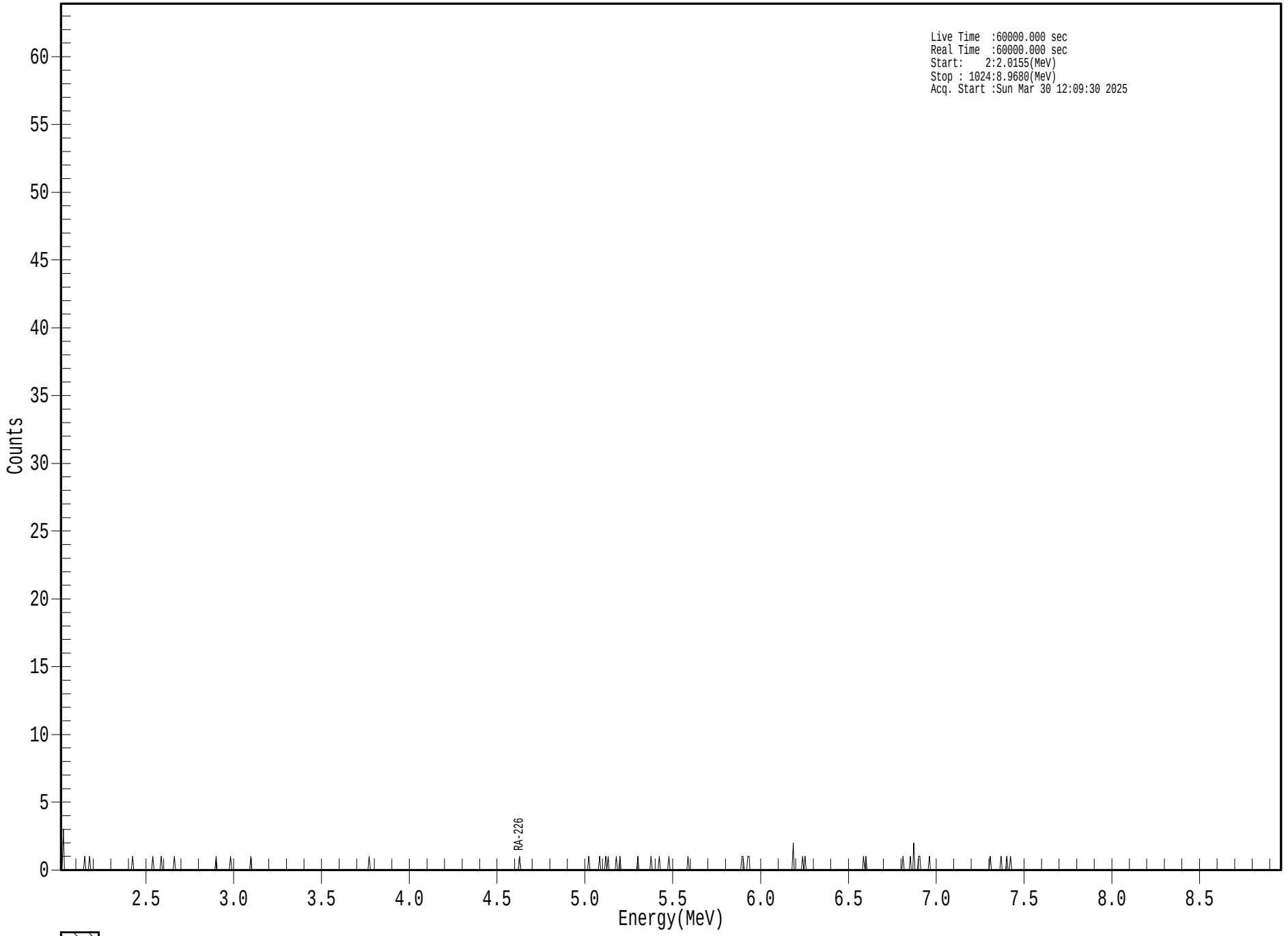
Detector Name: A_2_1A
Sample Title: DET 57 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 10:46:30 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	301-	413	386.00	4627.76	6.80	1.00E+00	1.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

57.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.0155(MeV)
Stop : 1024:8.9680(MeV)
Acq. Start :Sun Mar 30 12:09:30 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\58.CNF

Report Generated On             : 4/3/2025   10:48:14 AM

Sample Title                    : DET 58 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:09:28 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.0 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/1/2024
              Efficiency Calibration Used Done On   : 11/1/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

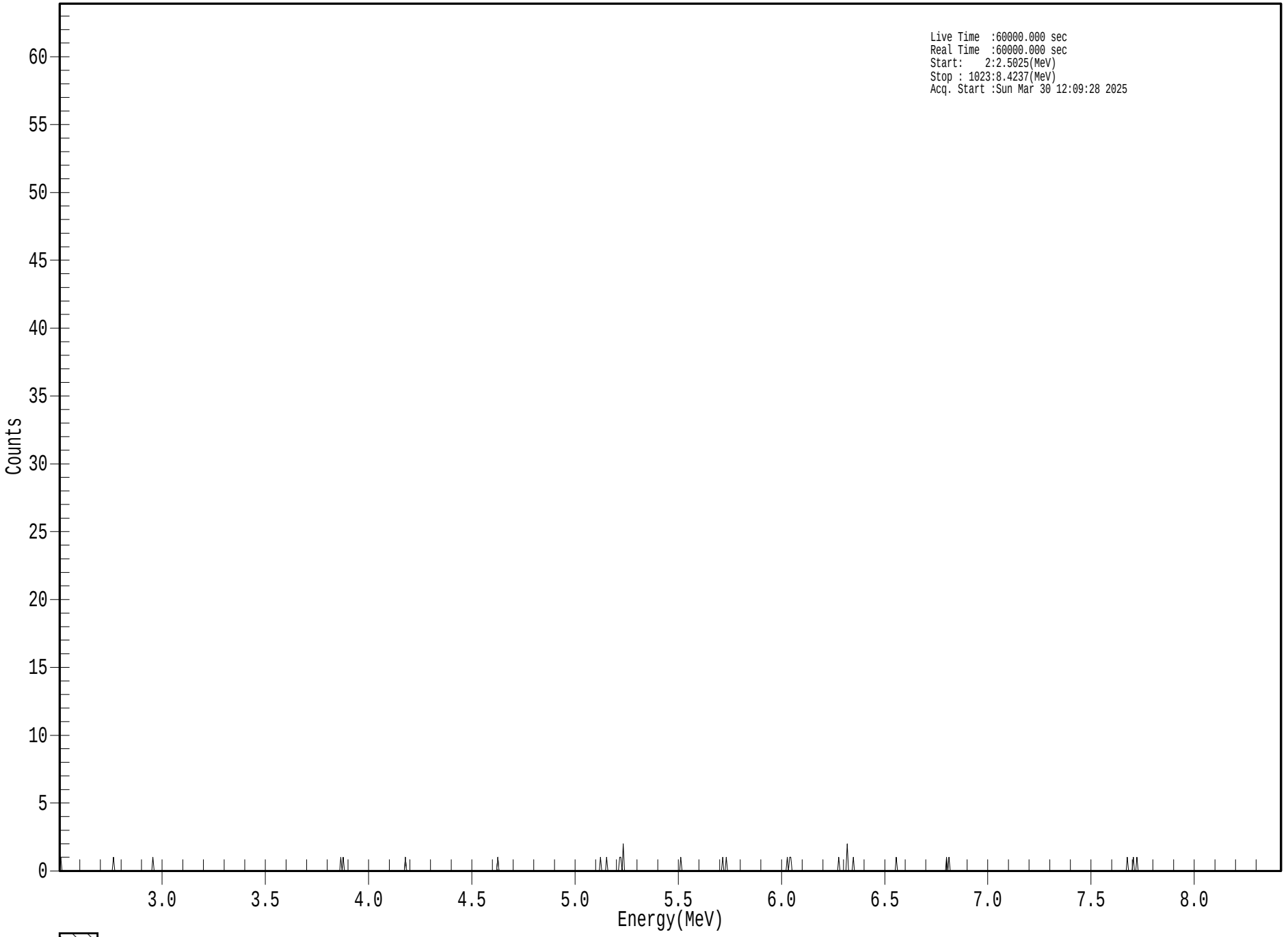
Detector Name: A_2_1B
Sample Title: DET 58 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 10:48:14 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	269-	400	329.50	4401.79	5.80	2.00E+00	1.41	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

58.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.5025(MeV)
Stop : 1023:8.4237(MeV)
Acq. Start :Sun Mar 30 12:09:28 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\61.CNF

Report Generated On : 4/3/2025 10:50:05 AM

Sample Title : DET 61 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:32 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

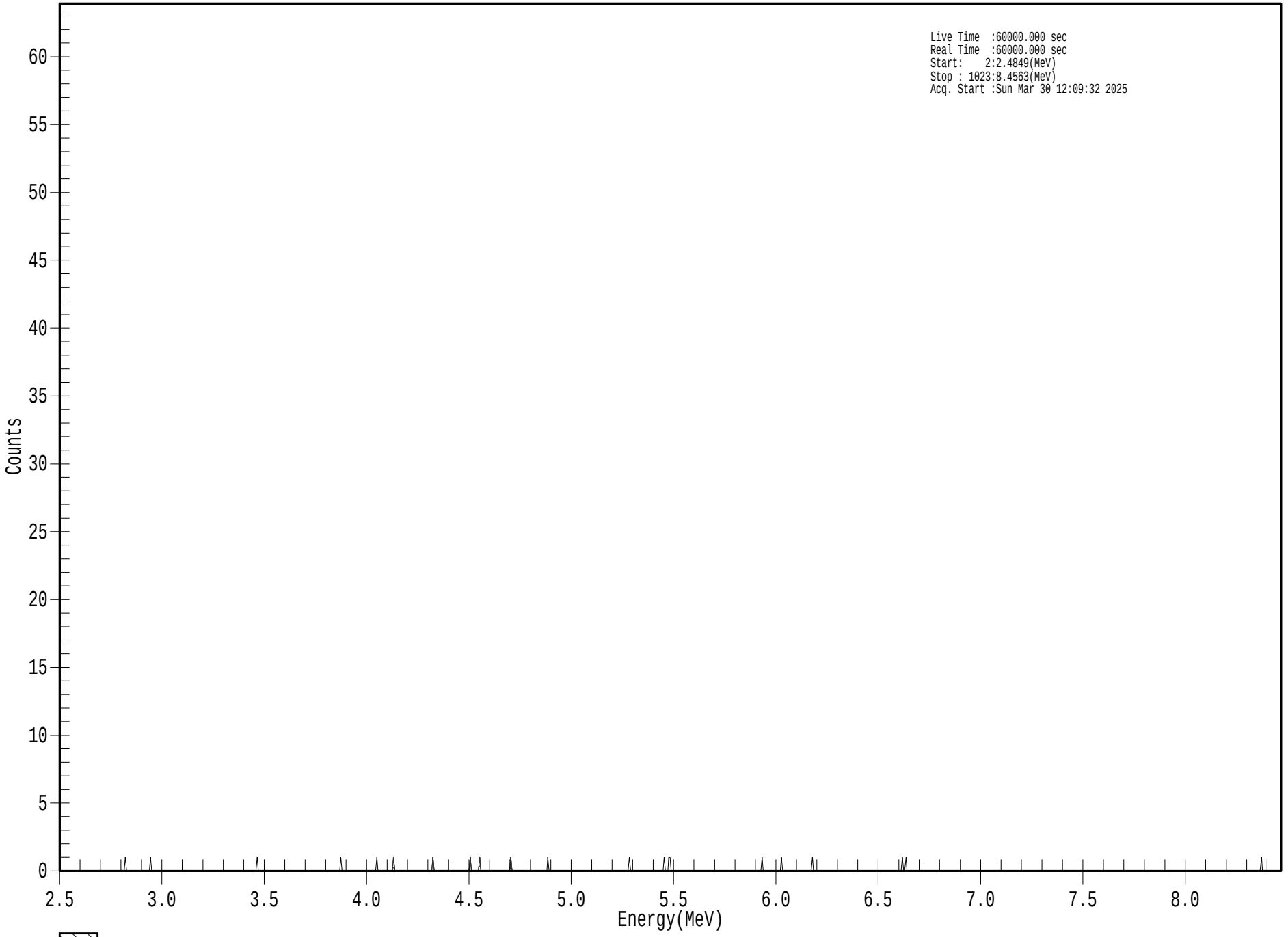
Detector Name: A_2_3A
Sample Title: DET 61 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 10:50:05 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	270-	399	334.40	4428.97	5.85	5.00E+00	2.24	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

61.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4849(MeV)
Stop : 1023:8.4563(MeV)
Acq. Start :Sun Mar 30 12:09:32 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\62.CNF

Report Generated On : 4/3/2025 10:51:47 AM

Sample Title : DET 62 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:34 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/18/2025
Efficiency Calibration Used Done On : 2/18/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

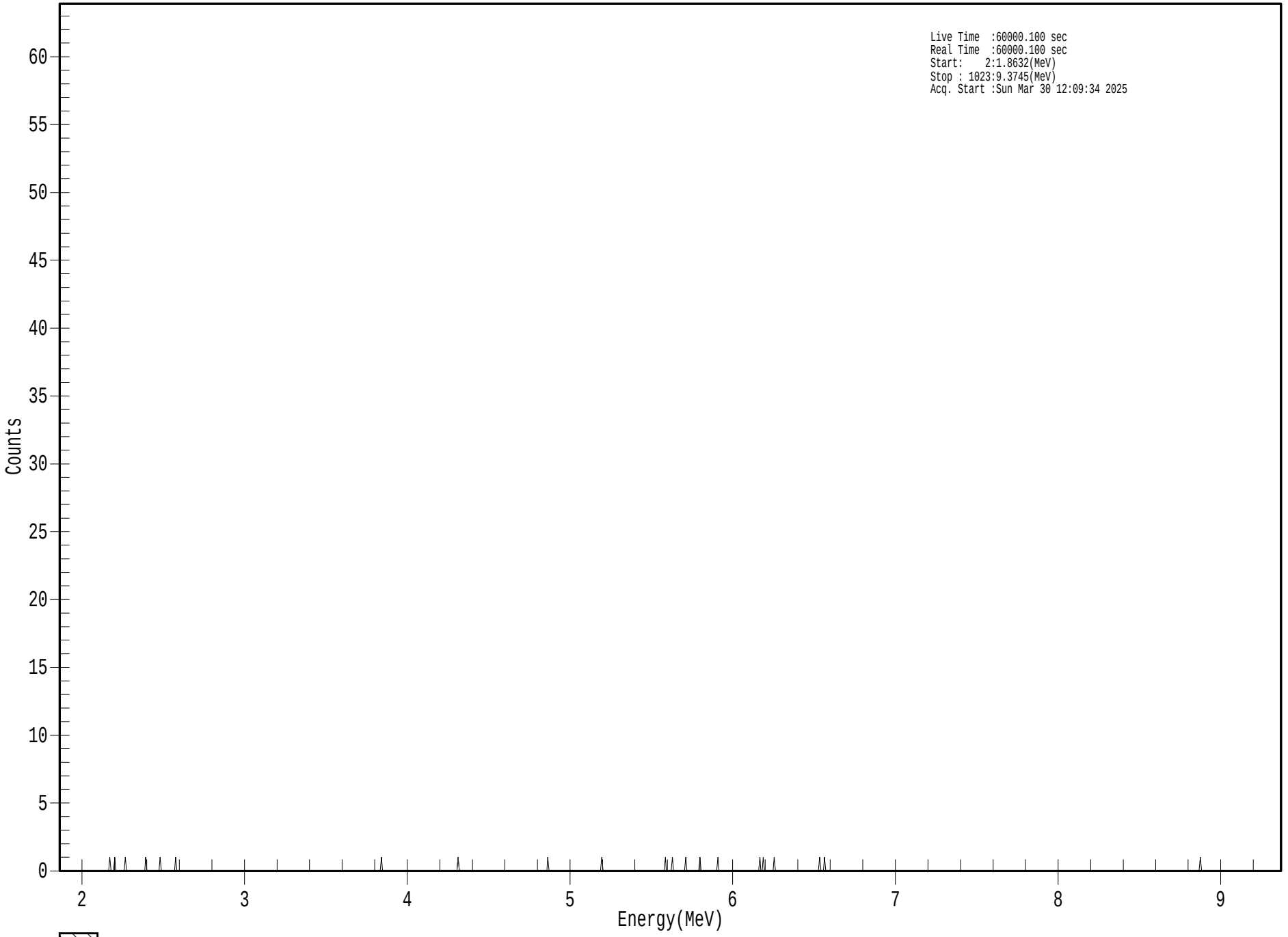
Detector Name: A_2_3B
Sample Title: DET 62 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 10:51:47 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	299-	402	335.00	4313.02	7.36	1.00E+00	1.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

62.CNF


Live Time :60000.100 sec
Real Time :60000.100 sec
Start: 2:1.8632(MeV)
Stop : 1023:9.3745(MeV)
Acq. Start :Sun Mar 30 12:09:34 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2
3
4
5
6
7
8
9
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\65.CNF

Report Generated On : 4/3/2025 11:08:03 AM

Sample Title : DET 65 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:36 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

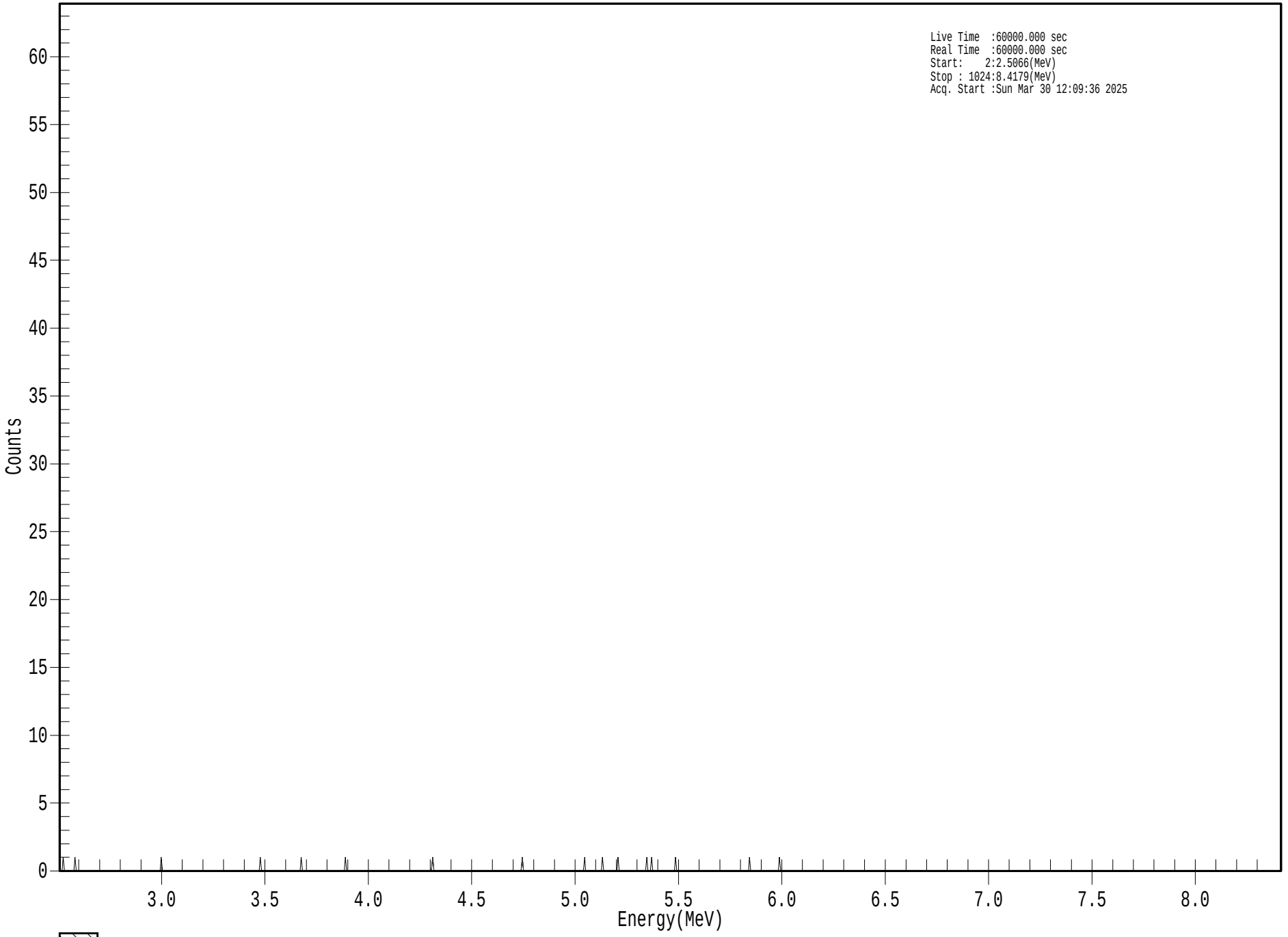
Detector Name: A_2_5A
Sample Title: DET 65 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:08:03 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	269-	400	351.50	4528.09	5.78	2.00E+00	1.41	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

65.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.5066(MeV)
Stop : 1024:8.4179(MeV)
Acq. Start :Sun Mar 30 12:09:36 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\66.CNF

Report Generated On : 4/3/2025 11:13:08 AM

Sample Title : DET 66 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:38 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 3/27/2025
Efficiency Calibration Used Done On : 3/27/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

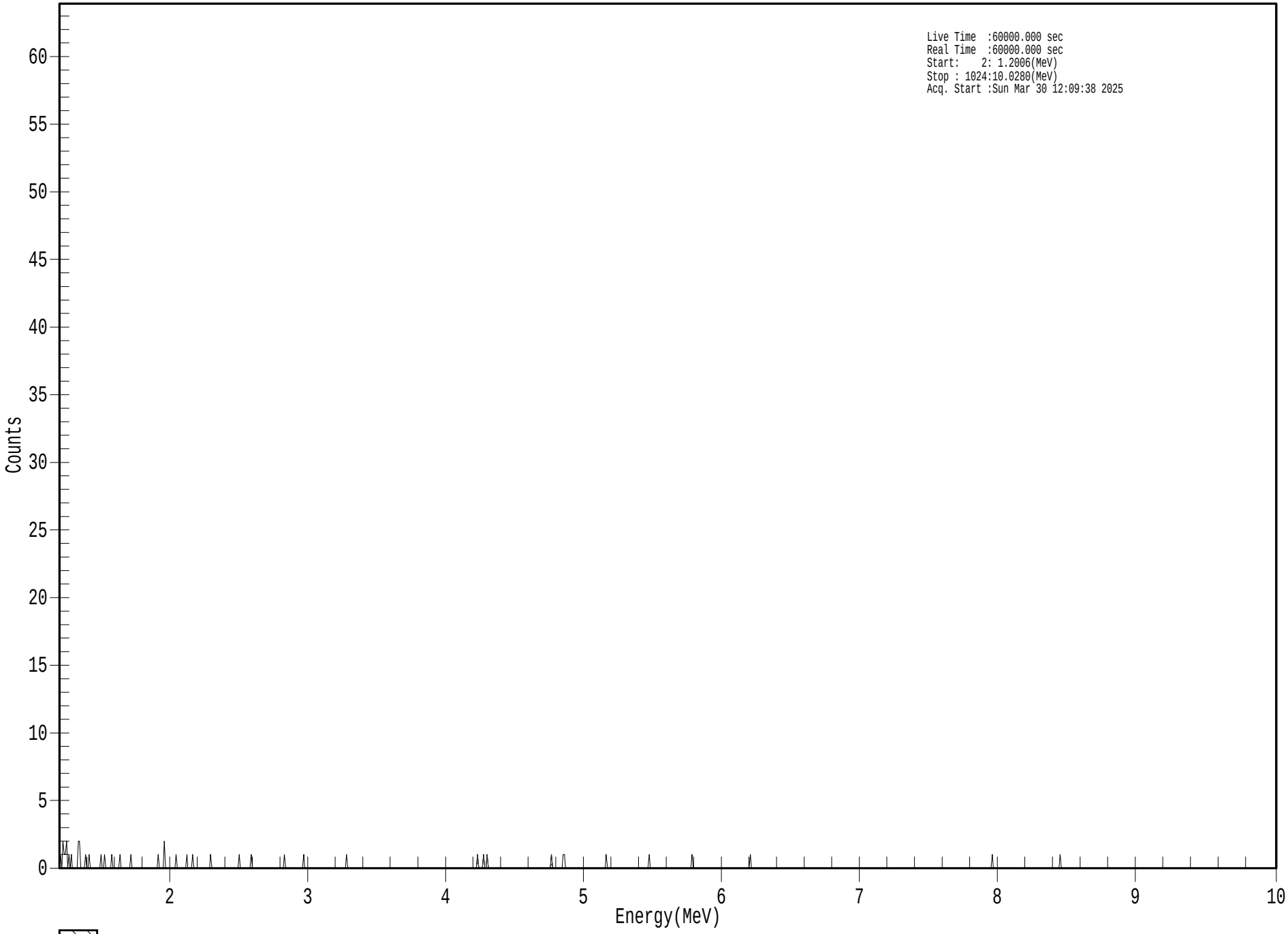
Detector Name: A_2_5B
Sample Title: DET 66 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:13:08 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	332-	420	371.75	4394.27	8.64	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

66.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2: 1.2006(MeV)
Stop : 1024:10.0280(MeV)
Acq. Start :Sun Mar 30 12:09:38 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2
3
4
5
6
7
8
9
10
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\67.CNF

Report Generated On : 4/3/2025 11:15:01 AM

Sample Title : DET 67 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:39 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/18/2025
Efficiency Calibration Used Done On : 2/18/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

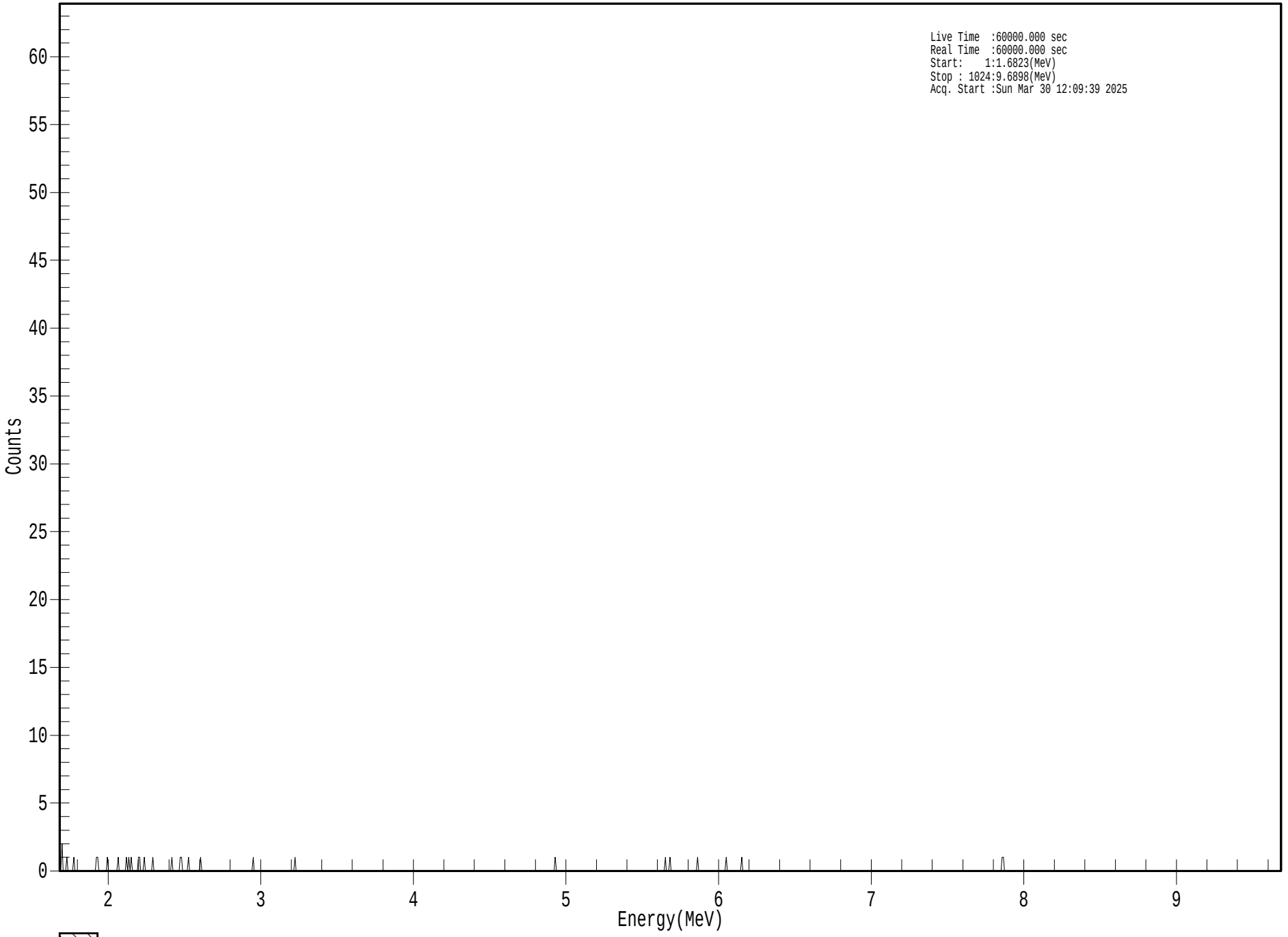
Detector Name: A_2_6A
Sample Title: DET 67 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:15:01 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	303-	400	351.00	4421.91	0.00	0.00E+00	0.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

67.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:1.6823(MeV)
Stop : 1024:9.6898(MeV)
Acq. Start :Sun Mar 30 12:09:39 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2
3
4
5
6
7
8
9
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\68.CNF

Report Generated On : 4/3/2025 11:17:01 AM

Sample Title : DET 68 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:41 PM

Live Time : 60000.1 seconds
Real Time : 60000.1 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/1/2024
Efficiency Calibration Used Done On : 11/1/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

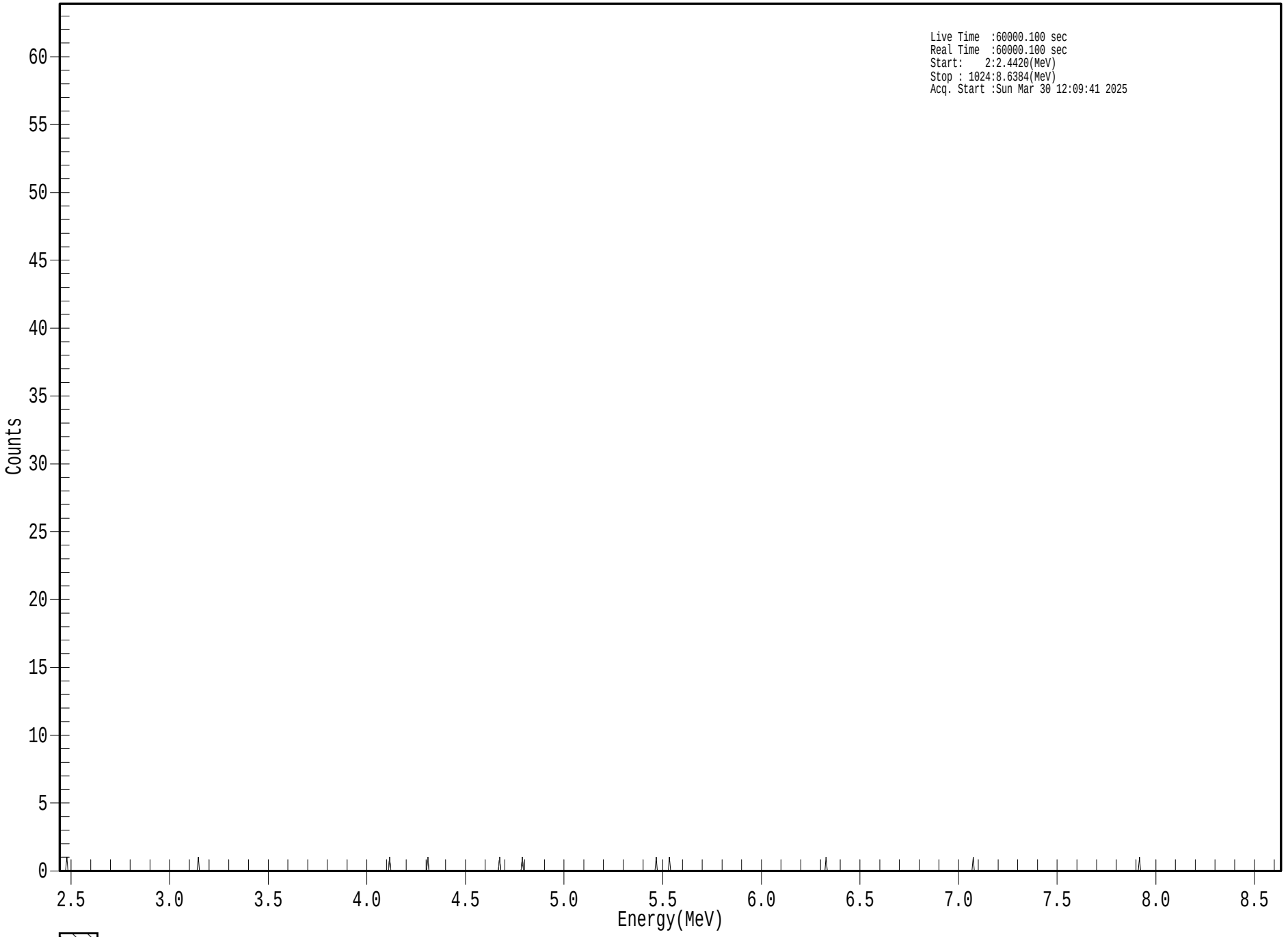
Detector Name: A_2_6B
Sample Title: DET 68 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:17:01 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	267-	392	336.75	4471.62	6.06	4.00E+00	2.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

68.CNF


Live Time :60000.100 sec
Real Time :60000.100 sec
Start: 2:2.4420(MeV)
Stop : 1024:8.6384(MeV)
Acq. Start :Sun Mar 30 12:09:41 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
8.5
Energy(MeV)
ROI Type: 1

```
**************************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**************************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\69.CNF

Report Generated On             : 4/3/2025   11:18:52 AM

Sample Title                    : DET 69 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:09:53 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.0 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/7/2024
              Efficiency Calibration Used Done On   : 11/7/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

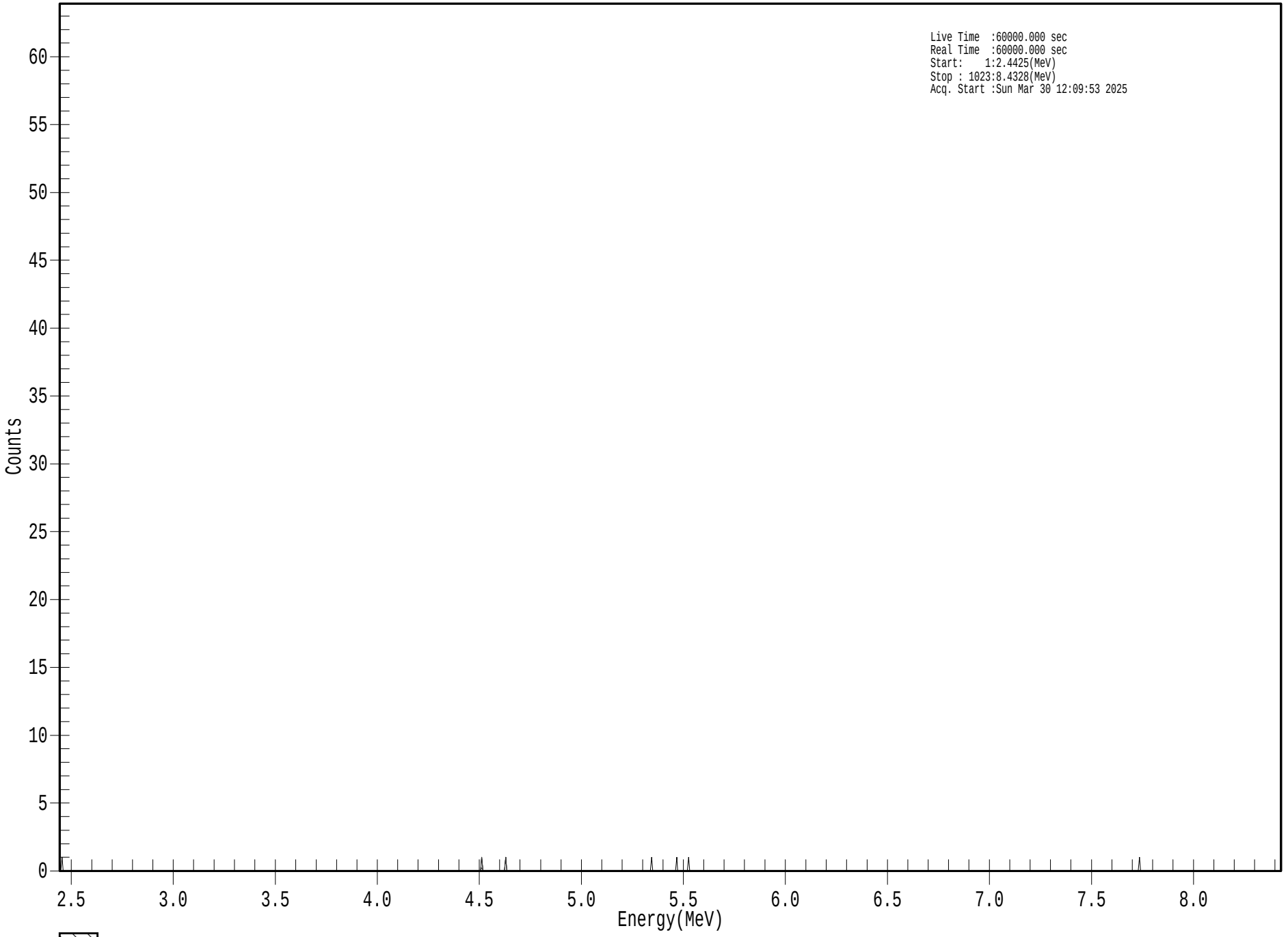
Detector Name: A_3_1A
Sample Title: DET 69 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:18:52 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	275-	405	364.00	4570.19	5.86	2.00E+00	1.41	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

69.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4425(MeV)
Stop : 1023:8.4328(MeV)
Acq. Start :Sun Mar 30 12:09:53 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

```
**********************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**********************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\70.CNF

Report Generated On             : 4/3/2025   11:20:28 AM

Sample Title                    : DET 70 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:09:54 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.0 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/7/2024
              Efficiency Calibration Used Done On   : 11/7/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

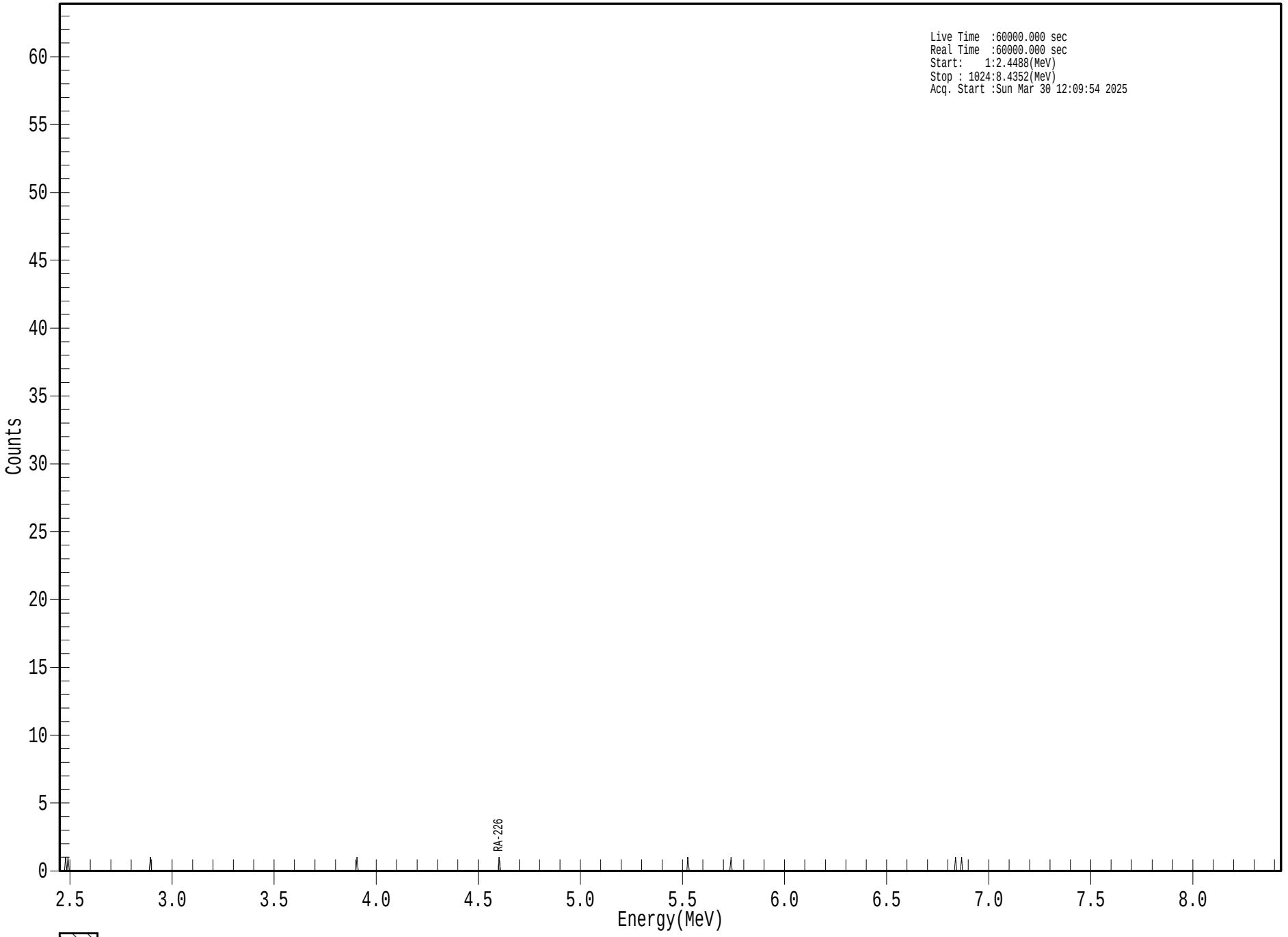
Detector Name: A_3_1B
Sample Title: DET 70 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:20:28 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	275-	404	369.00	4602.28	5.85	1.00E+00	1.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

70.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4488(MeV)
Stop : 1024:8.4352(MeV)
Acq. Start :Sun Mar 30 12:09:54 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

```
**************************************************************************
*****       A L P H A   S P E C T R U M   A N A L Y S I S        *****
**************************************************************************


Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\71.CNF

Report Generated On             : 4/3/2025   11:22:40 AM

Sample Title                    : DET 71 APRIL BKG 033025
Sample Description              :
Sample Identification           :
Sample Type                     :
Sample Geometry                 :

Peak Locate Threshold           : 10.00
Peak Locate Range (in channels) :     1 -  1024
Peak Area Range (in channels)   :     1 -  1024
Identification Energy Tolerance :    2.000 FWHM

Sample Size                     :  1.0000E+00 Unit

Sample Taken On                 :
Acquisition Started             : 3/30/2025  12:09:56 PM

Live Time                       :    60000.0 seconds
Real Time                       :    60000.0 seconds

Dead Time                       :   0.00 %


              Energy Calibration Used Done On       : 11/7/2024
              Efficiency Calibration Used Done On   : 11/7/2024
              Efficiency ID                         :
```

****
***** P E A K A N A L Y S I S R E P O R T *****
****

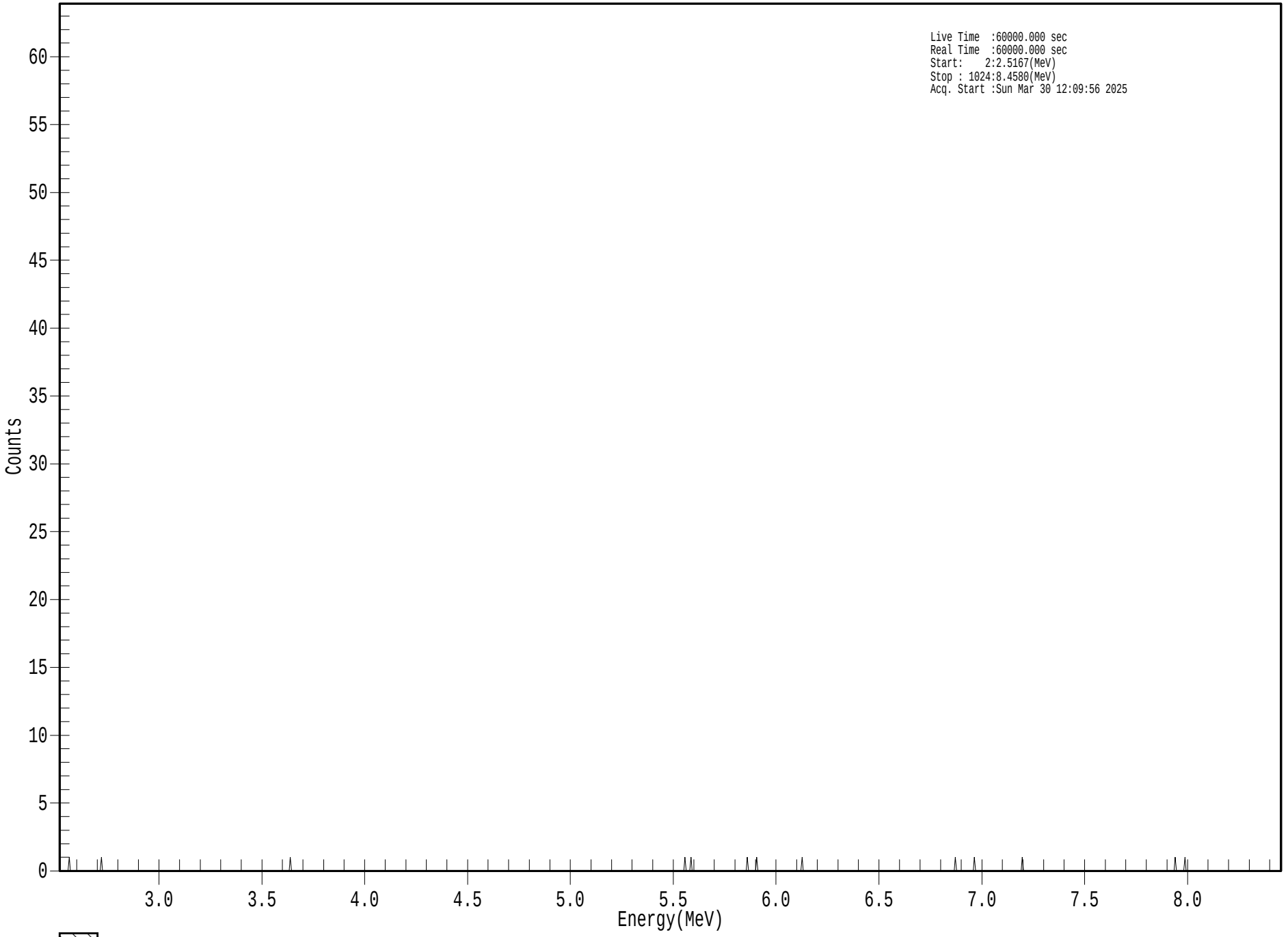
Detector Name: A_3_2A
Sample Title: DET 71 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:22:40 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	266-	396	331.00	4429.29	0.00	0.00E+00	0.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

71.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.5167(MeV)
Stop : 1024:8.4580(MeV)
Acq. Start :Sun Mar 30 12:09:56 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\72.CNF

Report Generated On : 4/3/2025 11:24:34 AM

Sample Title : DET 72 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:09:58 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

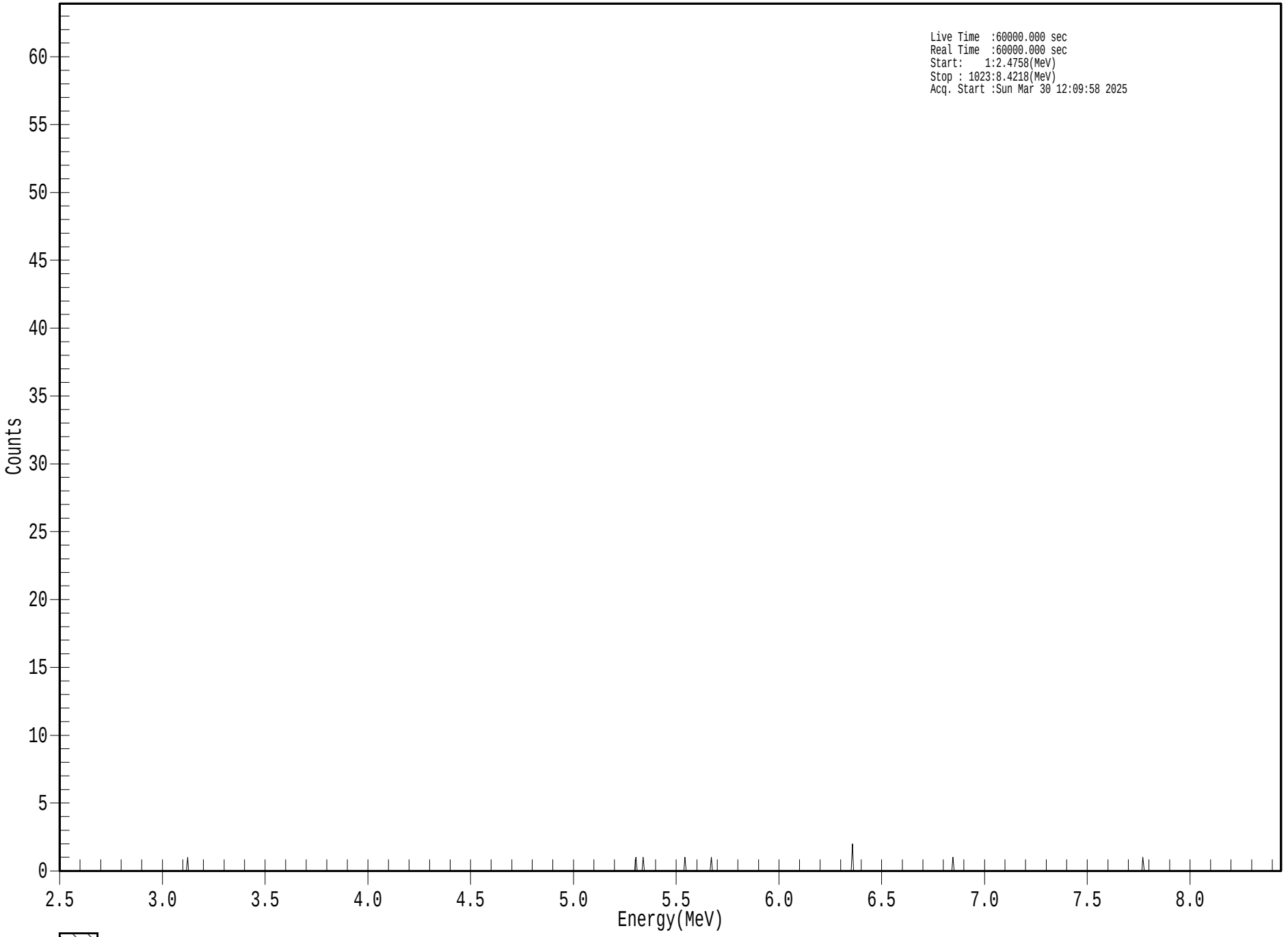
Detector Name: A_3_2B
Sample Title: DET 72 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:24:34 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	272-	402	337.00	4430.69	0.00	0.00E+00	0.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

72.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 1:2.4758(MeV)
Stop : 1023:8.4218(MeV)
Acq. Start :Sun Mar 30 12:09:58 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\75.CNF

Report Generated On : 4/3/2025 11:26:30 AM

Sample Title : DET 75 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:00 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 2/18/2025
Efficiency Calibration Used Done On : 2/18/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

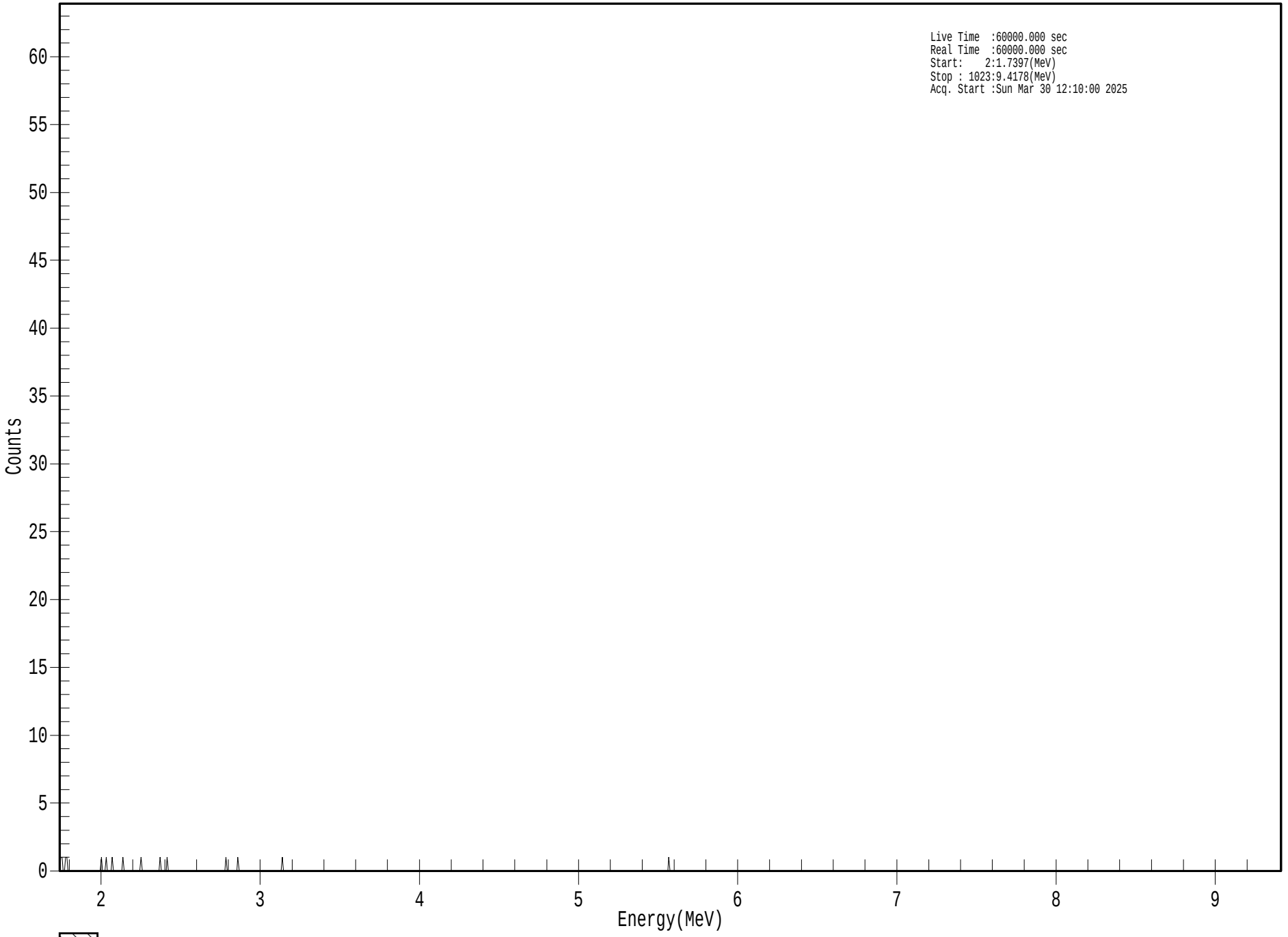
Detector Name: A_3_4A
Sample Title: DET 75 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:26:30 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	309-	410	359.00	4424.40	0.00	0.00E+00	0.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

75.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:1.7397(MeV)
Stop : 1023:9.4178(MeV)
Acq. Start :Sun Mar 30 12:10:00 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2
3
4
5
6
7
8
9
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\76.CNF

Report Generated On : 4/3/2025 11:28:31 AM

Sample Title : DET 76 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:02 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

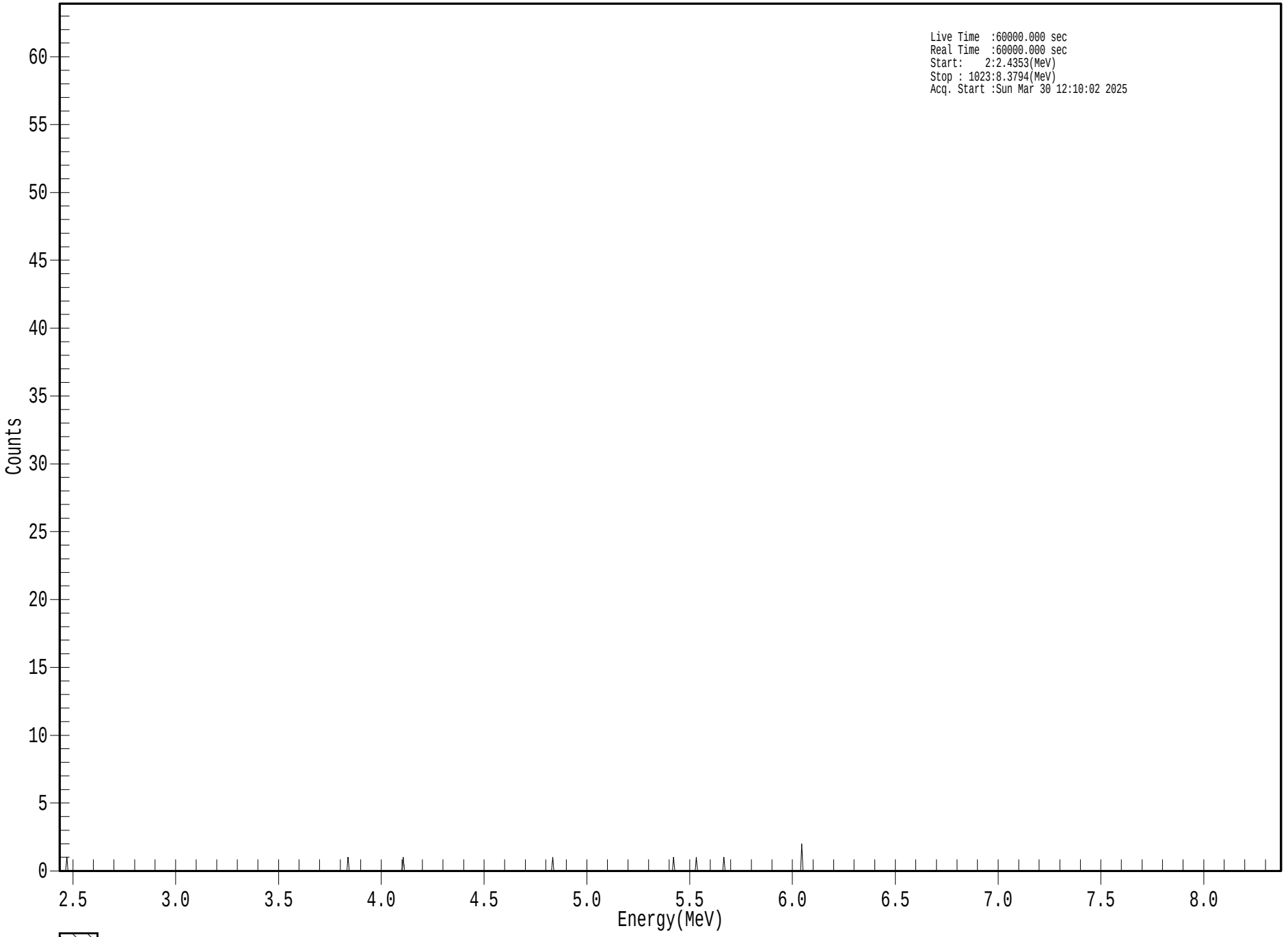
Detector Name: A_3_4B
Sample Title: DET 76 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:28:31 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	279-	410	289.00	4106.15	5.82	1.00E+00	1.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

76.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4353(MeV)
Stop : 1023:8.3794(MeV)
Acq. Start :Sun Mar 30 12:10:02 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\77.CNF

Report Generated On : 4/3/2025 11:30:36 AM

Sample Title : DET 77 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:03 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

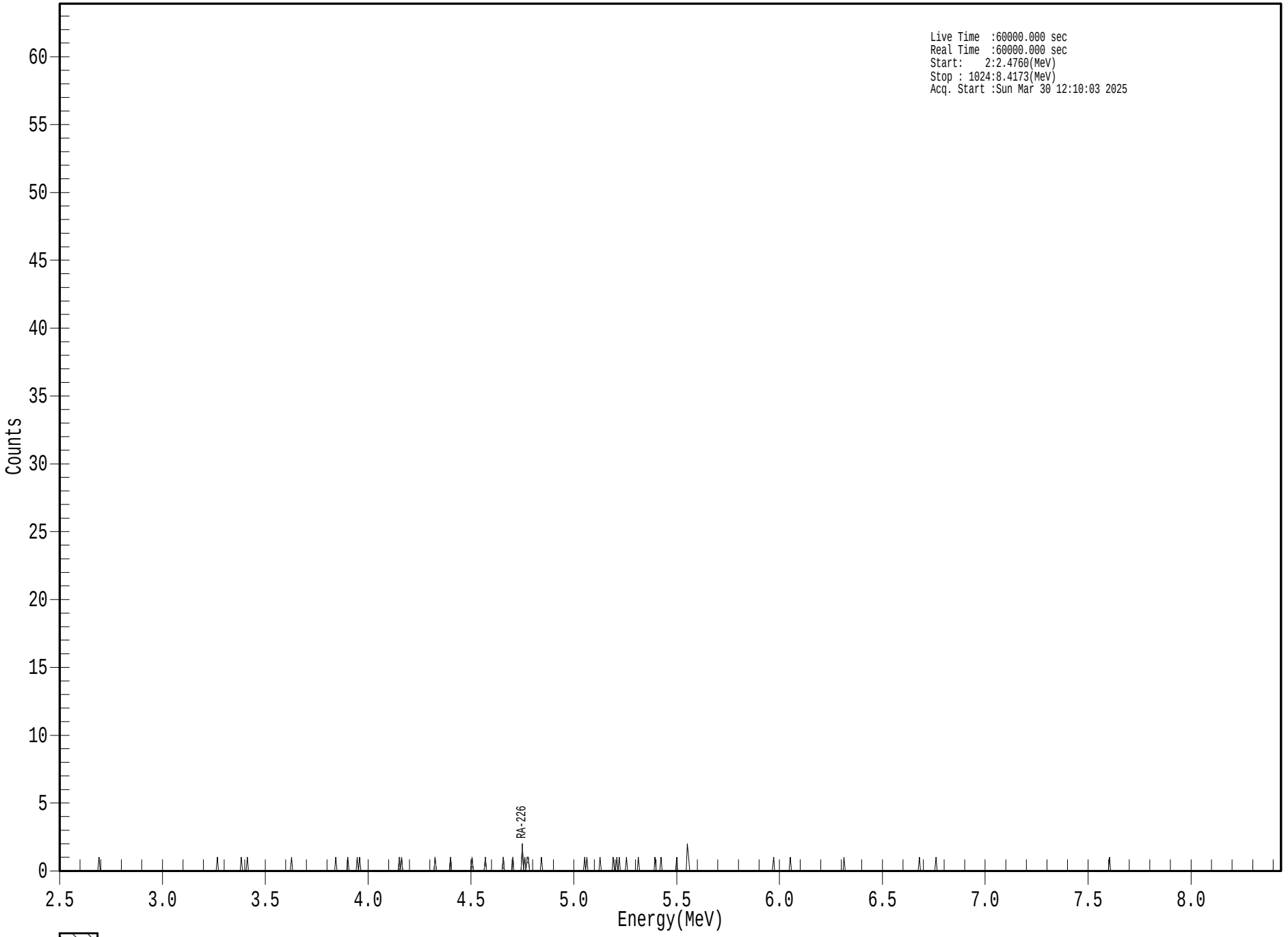
Detector Name: A_3_5A
Sample Title: DET 77 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:30:36 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	273-	403	356.46	4536.62	5.81	1.30E+01	3.61	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

77.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4760(MeV)
Stop : 1024:8.4173(MeV)
Acq. Start :Sun Mar 30 12:10:03 2025
Counts
Energy(MeV)
RA-226
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\78.CNF

Report Generated On : 4/3/2025 11:32:32 AM

Sample Title : DET 78 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:05 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

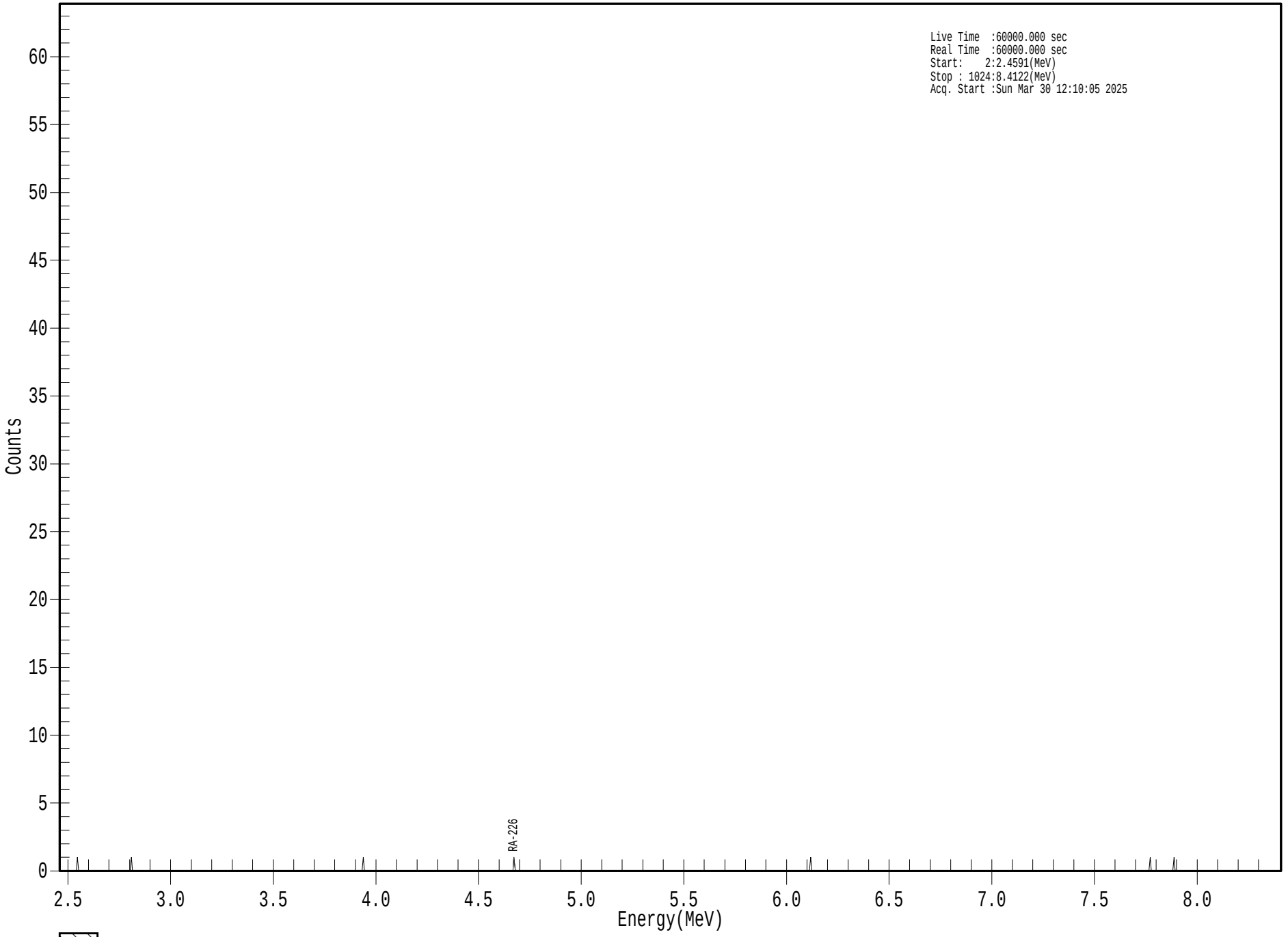
Detector Name: A_3_5B
Sample Title: DET 78 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:32:32 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	275-	405	382.00	4672.58	5.82	1.00E+00	1.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

78.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4591(MeV)
Stop : 1024:8.4122(MeV)
Acq. Start :Sun Mar 30 12:10:05 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
RA-226
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\79.CNF

Report Generated On : 4/3/2025 11:34:31 AM

Sample Title : DET 79 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:07 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 3/12/2025
Efficiency Calibration Used Done On : 3/12/2025
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

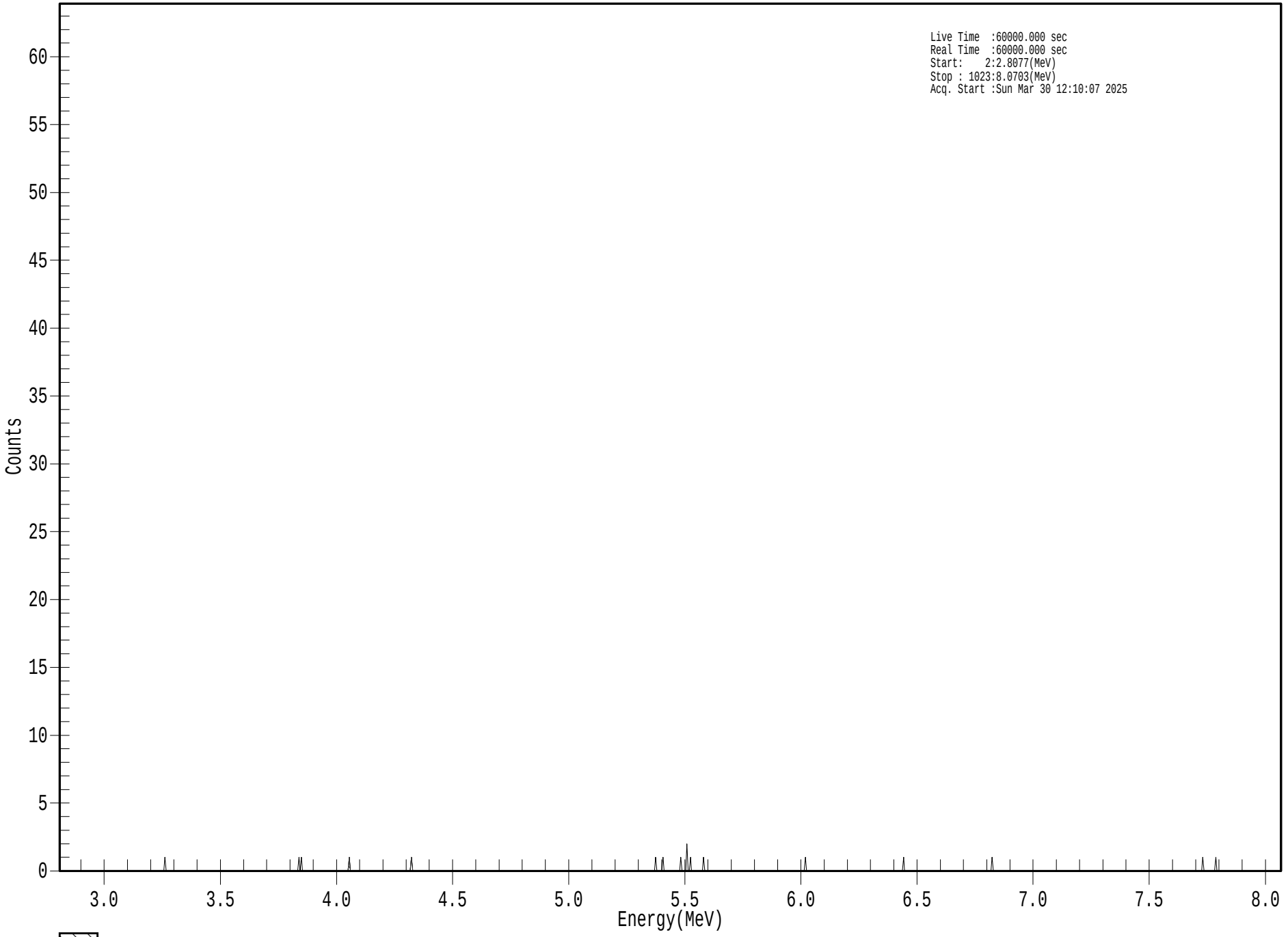
Detector Name: A_3_6A
Sample Title: DET 79 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:34:31 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	243-	390	270.00	4189.10	5.15	2.00E+00	1.41	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

79.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.8077(MeV)
Stop : 1023:8.0703(MeV)
Acq. Start :Sun Mar 30 12:10:07 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

****
***** A L P H A S P E C T R U M A N A L Y S I S *****
****

Filename: O:\alpha_sp\2025\Backgrounds\Monthly\04_April\80.CNF

Report Generated On : 4/3/2025 11:36:10 AM

Sample Title : DET 80 APRIL BKG 033025
Sample Description :
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 10.00
Peak Locate Range (in channels) : 1 - 1024
Peak Area Range (in channels) : 1 - 1024
Identification Energy Tolerance : 2.000 FWHM

Sample Size : 1.0000E+00 Unit

Sample Taken On :
Acquisition Started : 3/30/2025 12:10:09 PM

Live Time : 60000.0 seconds
Real Time : 60000.0 seconds

Dead Time : 0.00 %

Energy Calibration Used Done On : 11/7/2024
Efficiency Calibration Used Done On : 11/7/2024
Efficiency ID :

****
***** P E A K A N A L Y S I S R E P O R T *****
****

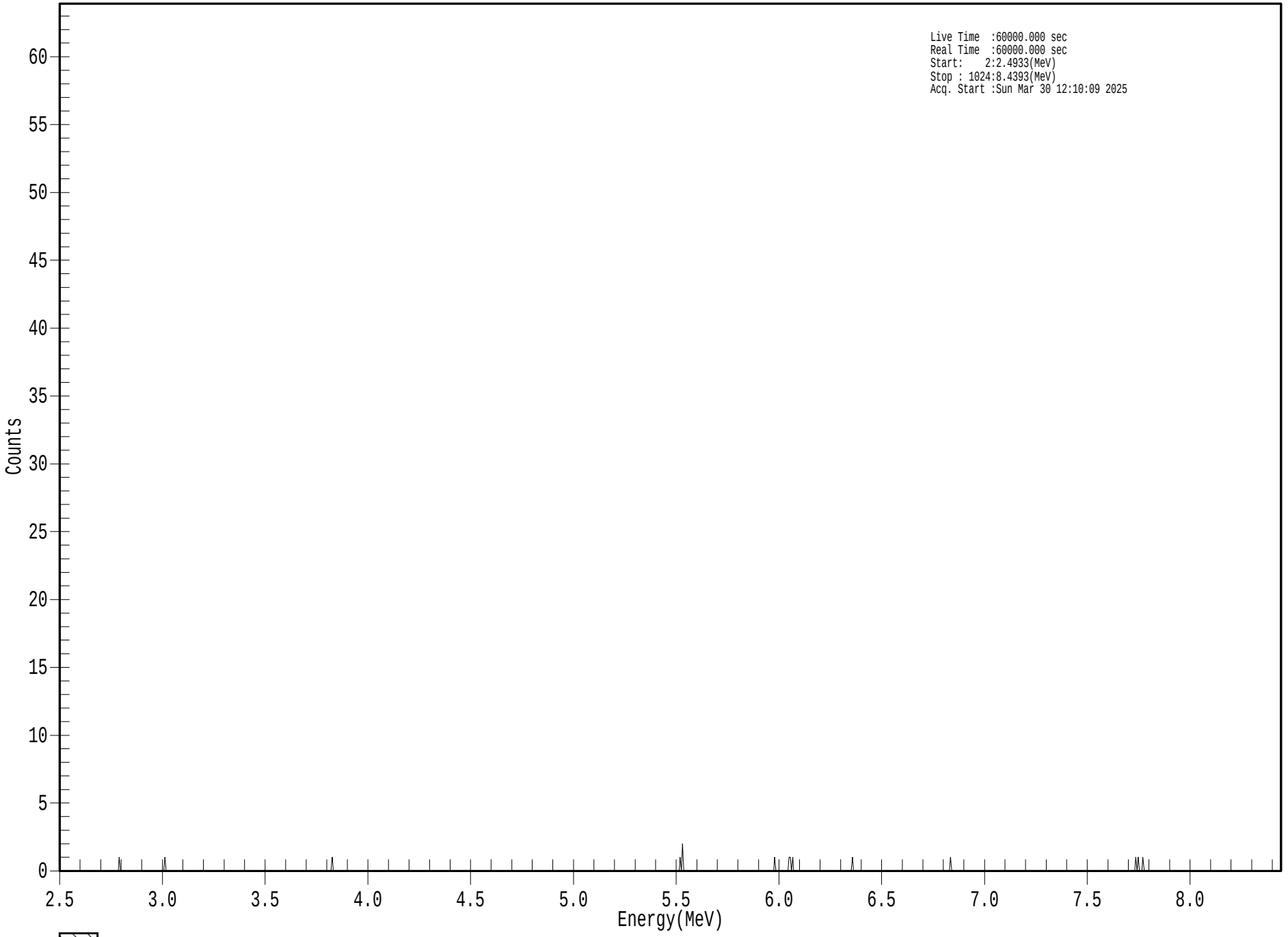
Detector Name: A_3_6B
Sample Title: DET 80 APRIL BKG 033025
Peak Analysis Performed on: 4/3/2025 11:36:10 AM
Peak Analysis From Channel: 1
Peak Analysis To Channel: 1024

Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
1	270-	400	335.00	4430.69	0.00	0.00E+00	0.00	0.00E+00

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

80.CNF


Live Time :60000.000 sec
Real Time :60000.000 sec
Start: 2:2.4933(MeV)
Stop : 1024:8.4393(MeV)
Acq. Start :Sun Mar 30 12:10:09 2025
Counts
0
5
10
15
20
25
30
35
40
45
50
55
60
2.5
3.0
3.5
4.0
4.5
5.0
5.5
6.0
6.5
7.0
7.5
8.0
Energy(MeV)
ROI Type: 1

Alpha Spectrometer Daily Source Checks

April-25

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

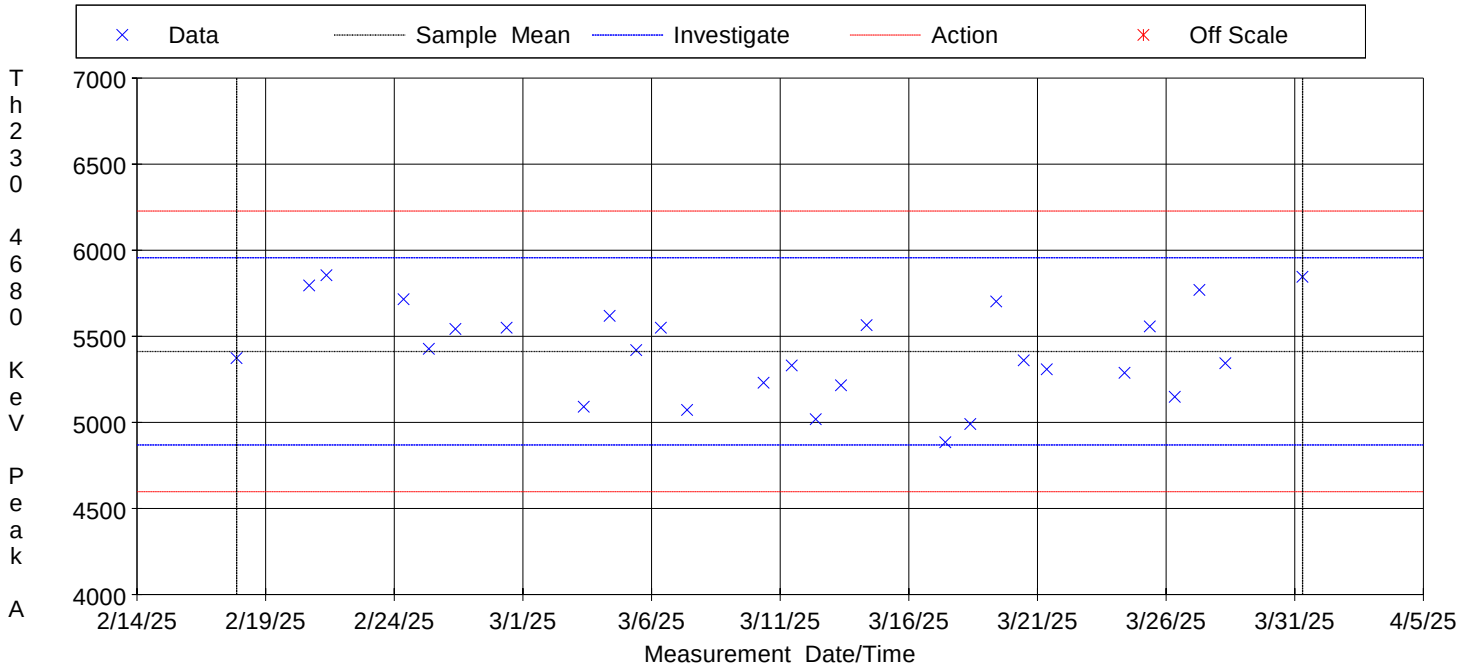
Full Parameter Results Report
4/2/25 7:34:09 AM

QA File: O:\alpha_sp\2025_QAF\4_April\01
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/17/25 8:43:33 PM
Sample End Date: 3/31/25 7:01:54 AM
Sample Mean: 5.41254E+03
Sample Std. Deviation: 2.71533E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/17/25 8:43:33 PM			5.37300E+03				
2/20/25 4:25:16 PM			5.79500E+03				
2/21/25 8:32:27 AM			5.85500E+03				
2/24/25 8:23:21 AM			5.71400E+03				
2/25/25 8:06:55 AM			5.42700E+03				
2/26/25 8:58:12 AM			5.54200E+03				
2/28/25 8:39:03 AM			5.55000E+03				
3/3/25 8:34:41 AM			5.09000E+03				
3/4/25 8:39:31 AM			5.61800E+03				
3/5/25 9:28:43 AM			5.41900E+03				
3/6/25 8:27:27 AM			5.55000E+03				
3/7/25 9:00:00 AM			5.07200E+03				
3/10/25 8:23:08 AM			5.23000E+03				
3/11/25 10:31:57 AM			5.32900E+03				
3/12/25 8:59:29 AM			5.01800E+03				
3/13/25 8:32:23 AM			5.21500E+03				
3/14/25 8:29:49 AM			5.56500E+03				
3/17/25 9:44:19 AM			4.88400E+03				
3/18/25 9:05:39 AM			4.98900E+03				
3/19/25 9:25:50 AM			5.70100E+03				
3/20/25 11:00:45 AM			5.35900E+03				
3/21/25 8:35:46 AM			5.30800E+03				
3/24/25 8:57:19 AM			5.28700E+03				
3/25/25 8:33:19 AM			5.55600E+03				
3/26/25 8:00:27 AM			5.14800E+03				
3/27/25 6:47:46 AM			5.76900E+03				
3/28/25 6:55:39 AM			5.34300E+03				
3/31/25 7:01:54 AM			5.84500E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\01_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/17/25 8:43:33 PM - 3/31/25 7:01:54 AM
Sample Mean +/- Std Dev : 5412.536 +/- 2.72e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 7:41:03 AM

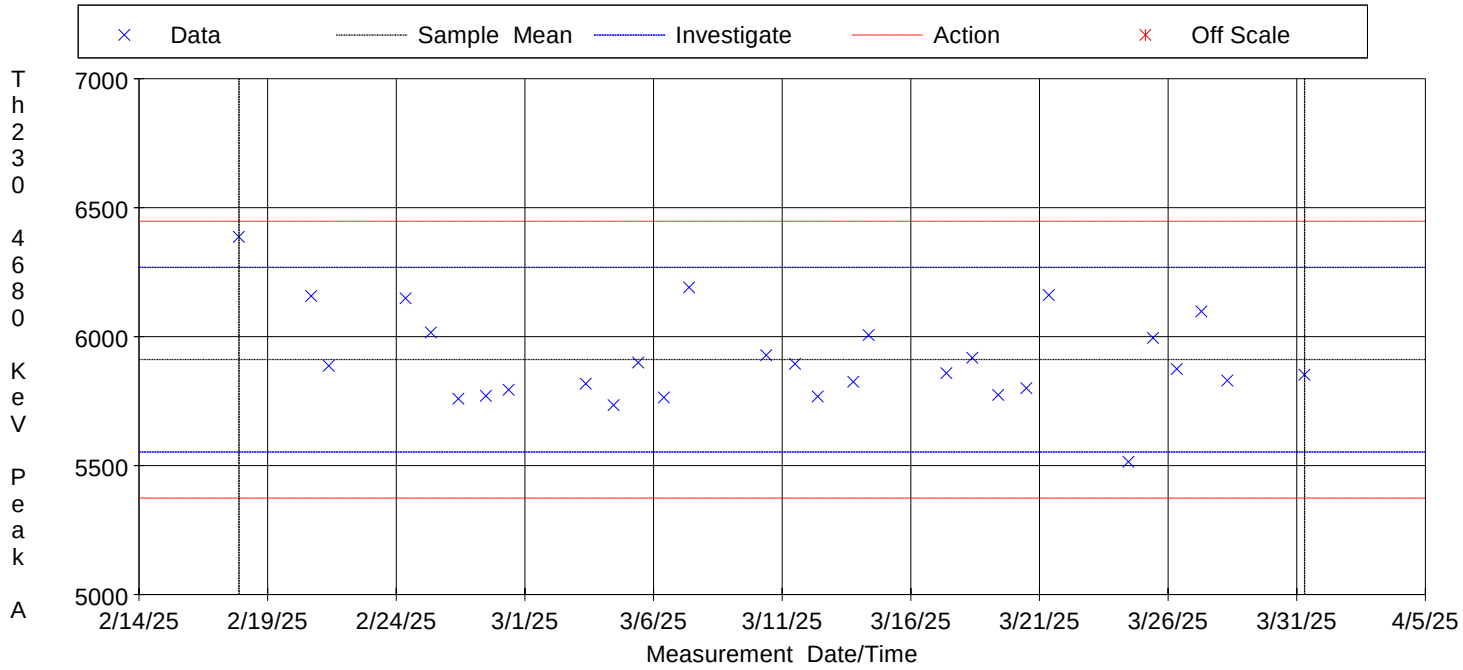
QA File: O:\alpha_sp\2025_QAF\4_April\02
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/17/25 9:02:55 PM
Sample End Date: 3/31/25 7:01:56 AM
Sample Mean: 5.91069E+03
Sample Std. Deviation: 1.78905E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/17/25 9:02:55 PM			6.38600E+03		In		
2/20/25 4:25:19 PM			6.15700E+03				
2/21/25 8:53:36 AM			5.88600E+03				
2/24/25 8:23:28 AM			6.14800E+03				
2/25/25 8:06:56 AM			6.01600E+03				
2/26/25 9:42:38 AM			5.75900E+03				
2/27/25 11:27:04 AM			5.77000E+03				
2/28/25 8:39:04 AM			5.79300E+03				
3/3/25 8:34:45 AM			5.81700E+03				
3/4/25 10:31:45 AM			5.73400E+03				
3/5/25 9:28:44 AM			5.89900E+03				
3/6/25 9:21:31 AM			5.76400E+03				
3/7/25 9:00:04 AM			6.19100E+03				
3/10/25 8:56:10 AM			5.92700E+03				
3/11/25 11:42:05 AM			5.89400E+03				
3/12/25 8:59:31 AM			5.76700E+03				
3/13/25 6:14:40 PM			5.82400E+03				
3/14/25 8:29:53 AM			6.00500E+03				
3/17/25 9:04:49 AM			5.85800E+03				
3/18/25 9:05:41 AM			5.91800E+03				
3/19/25 9:25:51 AM			5.77400E+03				
3/20/25 11:45:26 AM			5.80000E+03				
3/21/25 8:35:47 AM			6.16100E+03				
3/24/25 10:49:05 AM			5.51400E+03		In		
3/25/25 9:51:34 AM			5.99400E+03				
3/26/25 8:00:29 AM			5.87400E+03				
3/27/25 6:47:48 AM			6.09800E+03				
3/28/25 6:55:55 AM			5.83000E+03				
3/31/25 7:01:56 AM			5.85200E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)

BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\02_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/17/25 9:02:55 PM - 3/31/25 7:01:56 AM
Sample Mean +/- Std Dev : 5910.689 +/- 1.79e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

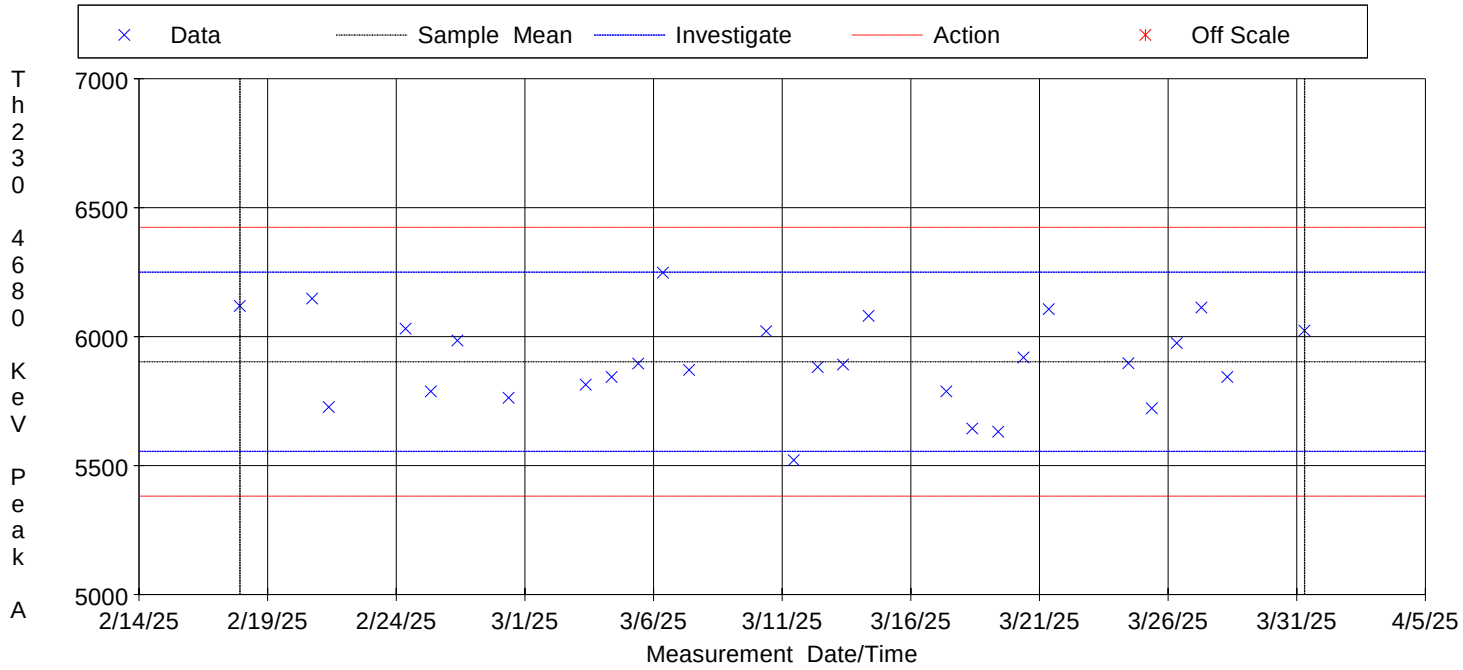
Full Parameter Results Report
4/2/25 7:56:34 AM

QA File: O:\alpha_sp\2025_QAF\4_April\03
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/17/25 9:47:04 PM
Sample End Date: 3/31/25 7:01:57 AM
Sample Mean: 5.90271E+03
Sample Std. Deviation: 1.73590E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/17/25 9:47:04 PM			6.11900E+03				
2/20/25 5:17:48 PM			6.14700E+03				
2/21/25 8:53:40 AM			5.72600E+03				
2/24/25 8:23:31 AM			6.03000E+03				
2/25/25 8:06:58 AM			5.78700E+03				
2/26/25 8:58:15 AM			5.98400E+03				
2/28/25 8:39:05 AM			5.76300E+03				
3/3/25 8:34:46 AM			5.81300E+03				
3/4/25 8:39:33 AM			5.84300E+03				
3/5/25 9:28:45 AM			5.89500E+03				
3/6/25 8:27:29 AM			6.24800E+03				
3/7/25 9:00:05 AM			5.87000E+03				
3/10/25 8:56:11 AM			6.02000E+03				
3/11/25 10:32:00 AM			5.52000E+03		In		
3/12/25 8:59:33 AM			5.88200E+03				
3/13/25 8:32:26 AM			5.89100E+03				
3/14/25 8:29:55 AM			6.08000E+03				
3/17/25 9:04:50 AM			5.78700E+03				
3/18/25 9:05:42 AM			5.64300E+03				
3/19/25 9:25:52 AM			5.63100E+03				
3/20/25 9:00:21 AM			5.91900E+03				
3/21/25 8:35:48 AM			6.10600E+03				
3/24/25 10:49:07 AM			5.89700E+03				
3/25/25 8:33:22 AM			5.72200E+03				
3/26/25 8:00:30 AM			5.97500E+03				
3/27/25 6:47:49 AM			6.11200E+03				
3/28/25 6:56:08 AM			5.84300E+03				
3/31/25 7:01:57 AM			6.02300E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\03_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/17/25 9:47:04 PM - 3/31/25 7:01:57 AM
Sample Mean +/- Std Dev : 5902.714 +/- 1.74e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

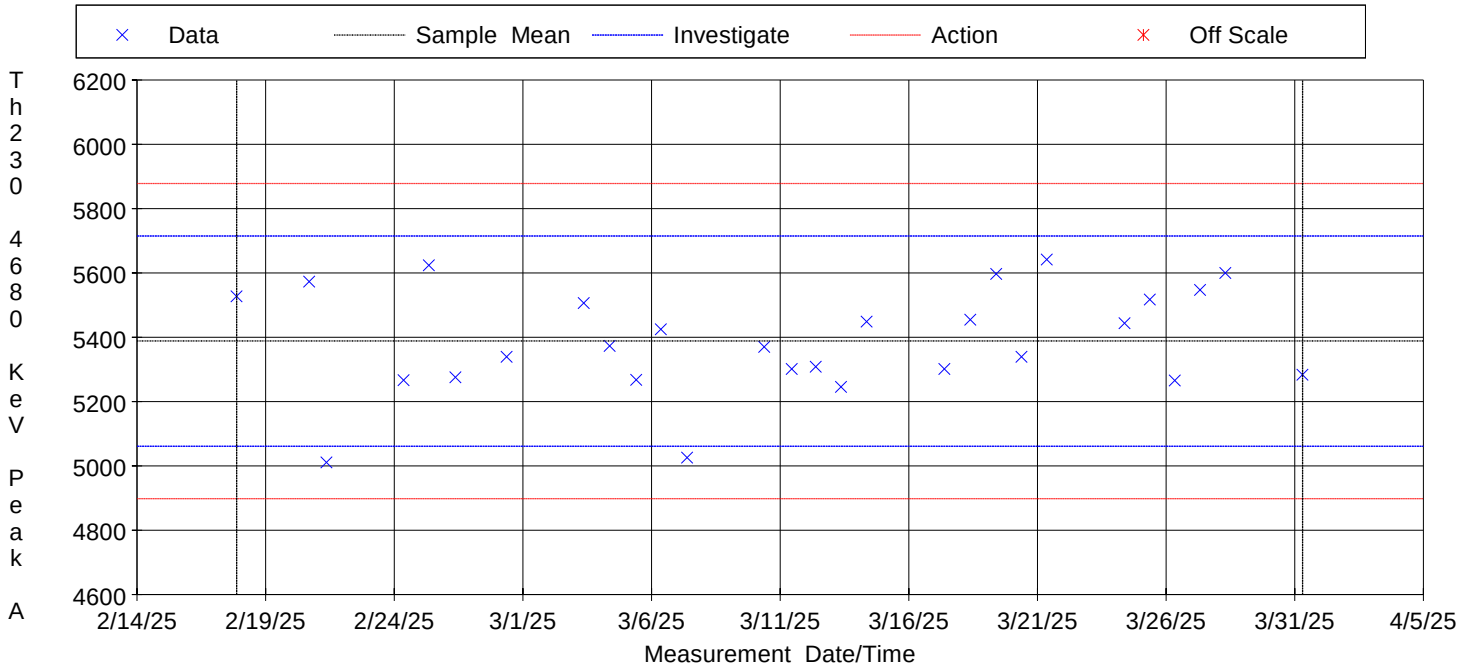
Full Parameter Results Report
4/2/25 7:57:45 AM

QA File: O:\alpha_sp\2025_QAF\4_April\04
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/17/25 8:48:21 PM
Sample End Date: 3/31/25 7:01:58 AM
Sample Mean: 5.38811E+03
Sample Std. Deviation: 1.63296E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/17/25 8:48:21 PM			5.52700E+03				
2/20/25 4:25:23 PM			5.57300E+03				
2/21/25 8:32:31 AM			5.01000E+03		In		
2/24/25 8:23:35 AM			5.26600E+03				
2/25/25 8:06:59 AM			5.62300E+03				
2/26/25 8:58:16 AM			5.27500E+03				
2/28/25 8:39:06 AM			5.33900E+03				
3/3/25 8:34:47 AM			5.50600E+03				
3/4/25 8:39:35 AM			5.37300E+03				
3/5/25 9:28:46 AM			5.26700E+03				
3/6/25 8:27:30 AM			5.42400E+03				
3/7/25 9:00:06 AM			5.02500E+03		In		
3/10/25 8:56:12 AM			5.37000E+03				
3/11/25 10:32:01 AM			5.30100E+03				
3/12/25 8:59:34 AM			5.30800E+03				
3/13/25 8:32:27 AM			5.24500E+03				
3/14/25 8:29:57 AM			5.44800E+03				
3/17/25 9:04:51 AM			5.30100E+03				
3/18/25 9:05:43 AM			5.45400E+03				
3/19/25 9:25:53 AM			5.59700E+03				
3/20/25 9:00:22 AM			5.33900E+03				
3/21/25 8:35:50 AM			5.64100E+03				
3/24/25 8:57:22 AM			5.44300E+03				
3/25/25 8:33:23 AM			5.51700E+03				
3/26/25 8:00:30 AM			5.26500E+03				
3/27/25 7:36:06 AM			5.54700E+03				
3/28/25 6:57:46 AM			5.60000E+03				
3/31/25 7:01:58 AM			5.28300E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\04_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/17/25 8:48:21 PM - 3/31/25 7:01:58 AM
Sample Mean +/- Std Dev : 5388.107 +/- 1.63e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 7:59:21 AM

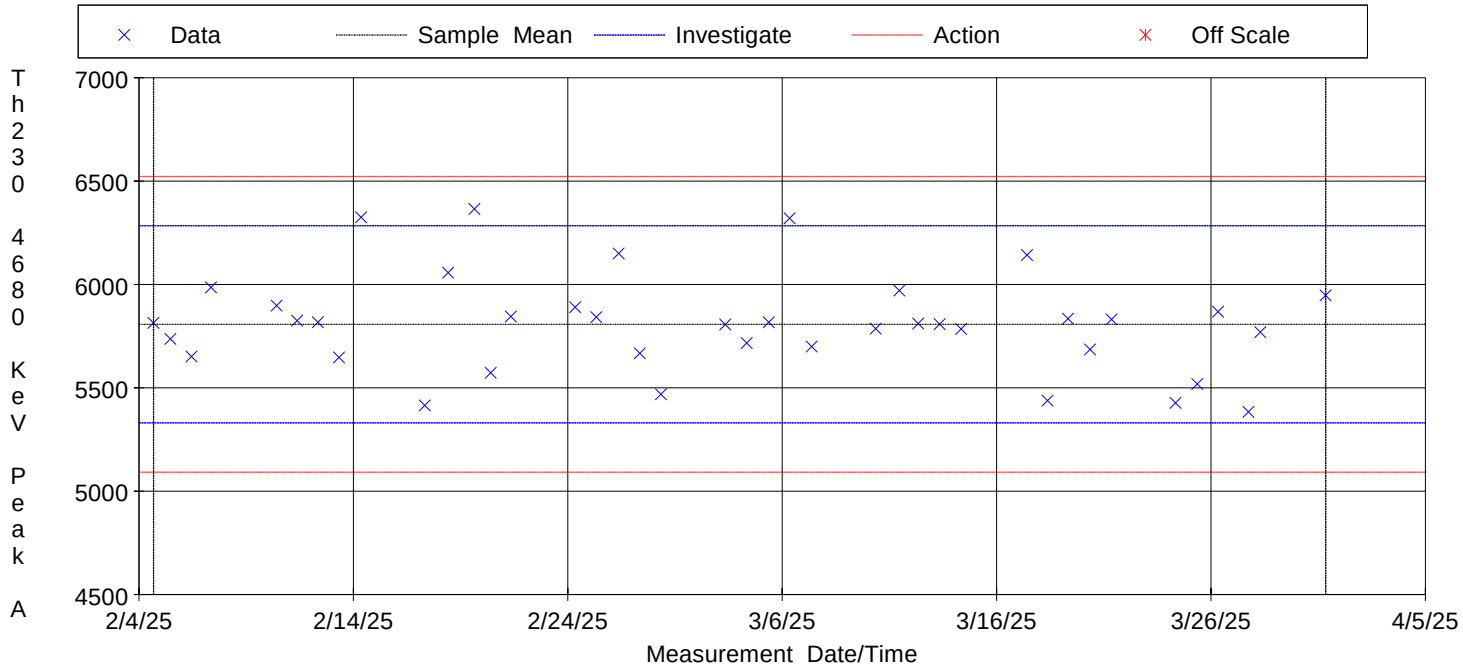
QA File: O:\alpha_sp\2025_QAF\4_April\09
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 3:57:30 PM
Sample End Date: 3/31/25 7:57:17 AM
Sample Mean: 5.80773E+03
Sample Std. Deviation: 2.38334E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 3:57:30 PM			5.81300E+03				
2/5/25 11:00:03 AM			5.73600E+03				
2/6/25 10:29:05 AM			5.65100E+03				
2/7/25 8:34:25 AM			5.98500E+03				
2/10/25 9:59:23 AM			5.89700E+03				
2/11/25 8:41:33 AM			5.82500E+03				
2/12/25 8:10:17 AM			5.81600E+03				
2/13/25 7:47:34 AM			5.64700E+03				
2/14/25 8:25:39 AM			6.32500E+03	In			
2/17/25 7:36:52 AM			5.41400E+03				
2/18/25 9:50:56 AM			6.05700E+03				
2/19/25 3:08:35 PM			6.36400E+03	In			
2/20/25 9:24:30 AM			5.57200E+03				
2/21/25 8:03:10 AM			5.84500E+03				
2/24/25 7:58:50 AM			5.88900E+03				
2/25/25 7:39:30 AM			5.84200E+03				
2/26/25 8:38:12 AM			6.14900E+03				
2/27/25 8:17:19 AM			5.66600E+03				
2/28/25 8:13:39 AM			5.46800E+03				
3/3/25 8:05:42 AM			5.80600E+03				
3/4/25 8:08:57 AM			5.71600E+03				
3/5/25 8:38:19 AM			5.81600E+03				
3/6/25 7:58:11 AM			6.32000E+03	In			
3/7/25 8:43:52 AM			5.69900E+03				
3/10/25 8:23:16 AM			5.78500E+03				
3/11/25 10:59:19 AM			5.97000E+03				
3/12/25 8:09:54 AM			5.81000E+03				
3/13/25 7:57:57 AM			5.80800E+03				
3/14/25 7:59:24 AM			5.78400E+03				
3/17/25 9:44:20 AM			6.14100E+03				
3/18/25 8:41:19 AM			5.43700E+03				
3/19/25 7:48:08 AM			5.83300E+03				
3/20/25 8:33:37 AM			5.68500E+03				
3/21/25 8:15:20 AM			5.83000E+03				
3/24/25 8:04:10 AM			5.42600E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:33:29 AM			5.51800E+03				
3/26/25 7:40:37 AM			5.86700E+03				
3/27/25 5:37:36 PM			5.38300E+03				
3/28/25 6:56:38 AM			5.76800E+03				
3/31/25 7:57:17 AM			5.94600E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\09_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 3:57:30 PM - 3/31/25 7:57:17 AM
Sample Mean +/- Std Dev : 5807.725 +/- 2.38e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 8:55:20 AM

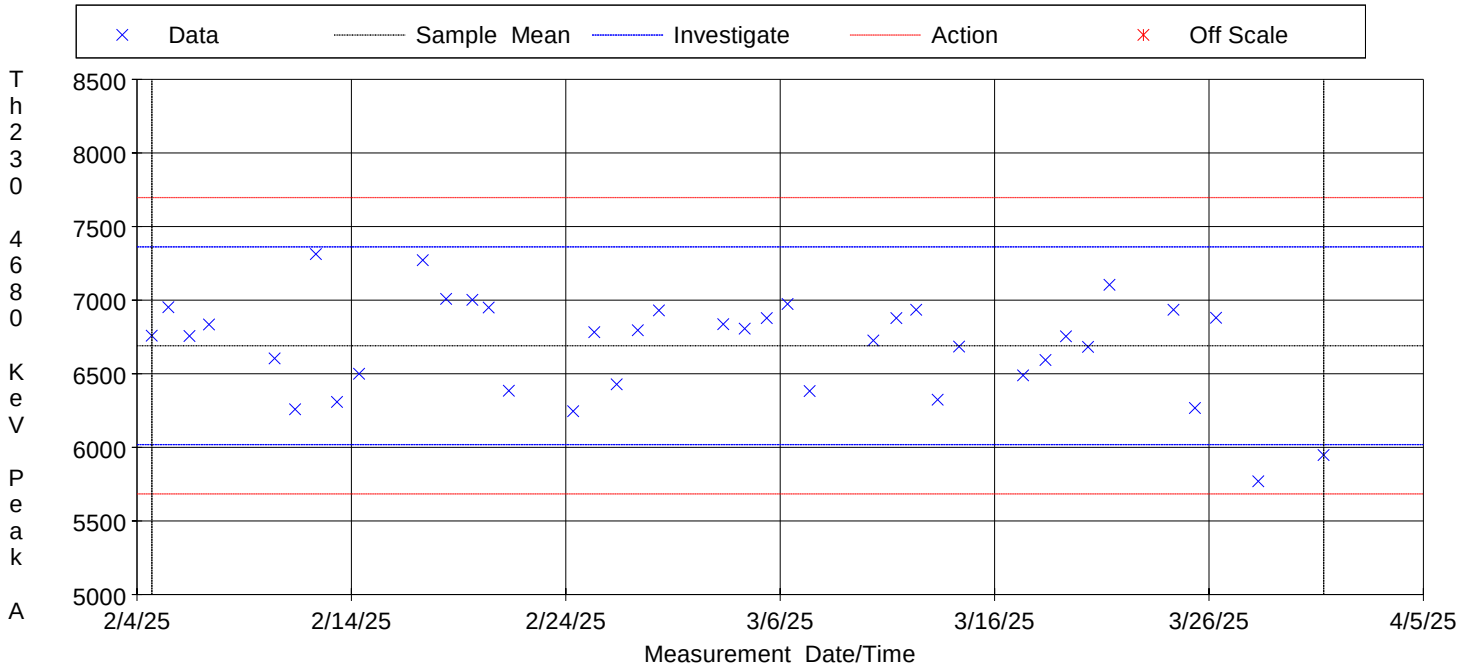
QA File: O:\alpha_sp\2025_QAF\4_April\10
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 4:11:19 PM
Sample End Date: 3/31/25 7:57:17 AM
Sample Mean: 6.68967E+03
Sample Std. Deviation: 3.35648E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 4:11:19 PM			6.75800E+03				
2/5/25 11:00:06 AM			6.95100E+03				
2/6/25 10:28:35 AM			6.75600E+03				
2/7/25 8:34:26 AM			6.83400E+03				
2/10/25 9:59:27 AM			6.60300E+03				
2/11/25 8:41:34 AM			6.25700E+03				
2/12/25 8:10:18 AM			7.31200E+03				
2/13/25 7:47:35 AM			6.30800E+03				
2/14/25 8:25:40 AM			6.50000E+03				
2/17/25 7:36:53 AM			7.27100E+03				
2/18/25 9:50:58 AM			7.00700E+03				
2/19/25 3:08:37 PM			7.00200E+03				
2/20/25 9:24:33 AM			6.94800E+03				
2/21/25 8:03:11 AM			6.38400E+03				
2/24/25 7:58:52 AM			6.24500E+03				
2/25/25 7:39:31 AM			6.78100E+03				
2/26/25 8:38:14 AM			6.42700E+03				
2/27/25 8:17:21 AM			6.79500E+03				
2/28/25 8:13:41 AM			6.92900E+03				
3/3/25 8:05:44 AM			6.83500E+03				
3/4/25 8:08:58 AM			6.80600E+03				
3/5/25 8:38:20 AM			6.87700E+03				
3/6/25 7:58:12 AM			6.97300E+03				
3/7/25 8:43:55 AM			6.38100E+03				
3/10/25 7:56:46 AM			6.72600E+03				
3/11/25 9:52:55 AM			6.87800E+03				
3/12/25 8:09:56 AM			6.93400E+03				
3/13/25 7:57:58 AM			6.32200E+03				
3/14/25 7:59:25 AM			6.68400E+03				
3/17/25 7:45:43 AM			6.48900E+03				
3/18/25 8:41:20 AM			6.59300E+03				
3/19/25 7:48:09 AM			6.75300E+03				
3/20/25 8:33:38 AM			6.68200E+03				
3/21/25 8:15:21 AM			7.10400E+03				
3/24/25 8:04:11 AM			6.93300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:48 AM			6.26600E+03				
3/26/25 7:40:39 AM			6.87900E+03				
3/28/25 6:56:38 AM			5.76800E+03	In			
3/31/25 7:57:17 AM			5.94600E+03	In			

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\10_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 4:11:19 PM - 3/31/25 7:57:17 AM
Sample Mean +/- Std Dev : 6689.667 +/- 3.36e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 8:56:26 AM

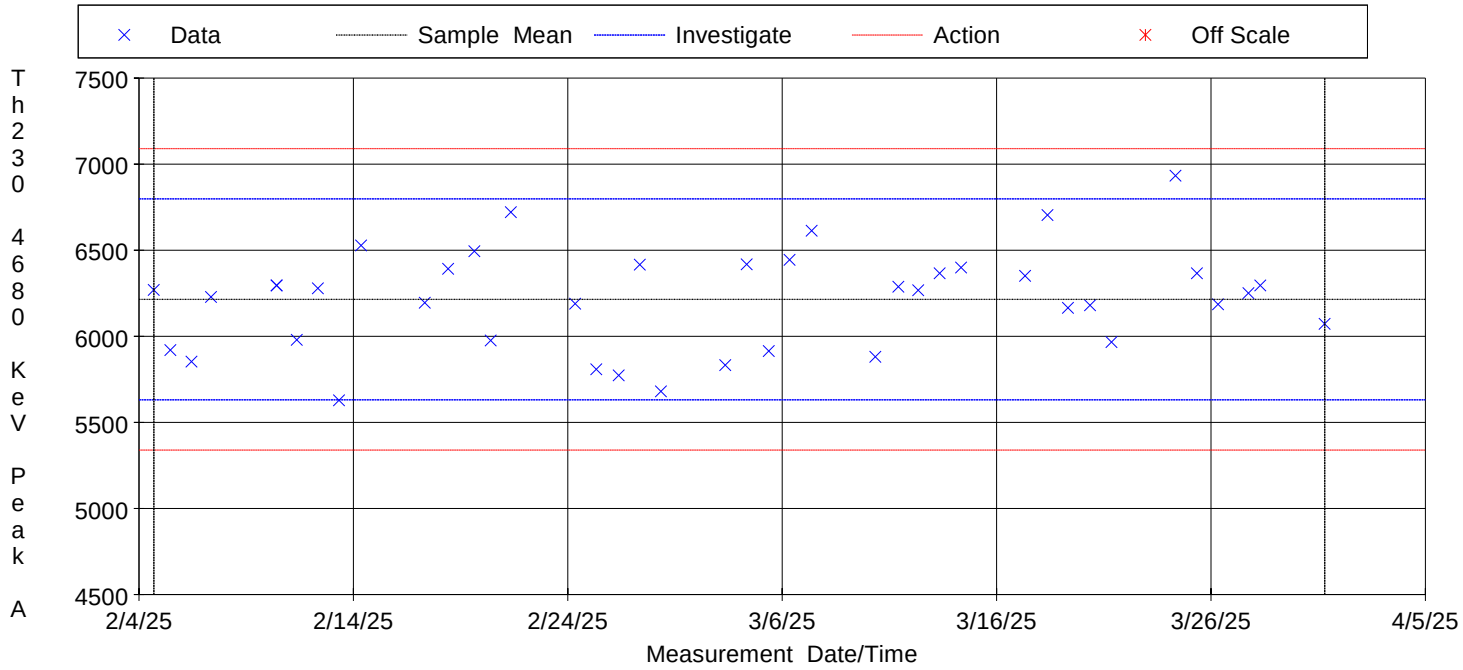
QA File: O:\alpha_sp\2025_QAF\4_April\11
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 4:12:46 PM
Sample End Date: 3/31/25 7:02:03 AM
Sample Mean: 6.21422E+03
Sample Std. Deviation: 2.91794E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 4:12:46 PM			6.26900E+03				
2/5/25 11:00:10 AM			5.91900E+03				
2/6/25 10:28:40 AM			5.85300E+03				
2/7/25 8:34:28 AM			6.22700E+03				
2/10/25 9:59:30 AM			6.29400E+03				
2/10/25 9:59:30 AM			6.29400E+03				
2/11/25 8:18:46 AM			5.97900E+03				
2/12/25 8:10:20 AM			6.27700E+03				
2/13/25 7:47:38 AM			5.62700E+03	In			
2/14/25 8:25:41 AM			6.52700E+03				
2/17/25 7:36:54 AM			6.19500E+03				
2/18/25 9:51:00 AM			6.39100E+03				
2/19/25 3:08:38 PM			6.49300E+03				
2/20/25 9:24:34 AM			5.97400E+03				
2/21/25 8:03:12 AM			6.72100E+03				
2/24/25 7:58:53 AM			6.18900E+03				
2/25/25 7:39:32 AM			5.80700E+03				
2/26/25 8:38:15 AM			5.77200E+03				
2/27/25 8:17:22 AM			6.41500E+03				
2/28/25 8:13:42 AM			5.67900E+03				
3/3/25 8:05:45 AM			5.83200E+03				
3/4/25 8:09:00 AM			6.41800E+03				
3/5/25 8:38:22 AM			5.91400E+03				
3/6/25 7:58:14 AM			6.44400E+03				
3/7/25 8:43:56 AM			6.61300E+03				
3/10/25 7:56:47 AM			5.88000E+03				
3/11/25 9:52:56 AM			6.28800E+03				
3/12/25 8:09:57 AM			6.26700E+03				
3/13/25 7:57:59 AM			6.36500E+03				
3/14/25 7:59:27 AM			6.39900E+03				
3/17/25 7:45:44 AM			6.35000E+03				
3/18/25 8:41:21 AM			6.70300E+03				
3/19/25 7:48:10 AM			6.16400E+03				
3/20/25 8:33:39 AM			6.18000E+03				
3/21/25 8:15:22 AM			5.96500E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 8:04:11 AM			6.93300E+03		In		
3/25/25 8:11:49 AM			6.36500E+03				
3/26/25 7:40:40 AM			6.18500E+03				
3/27/25 5:38:42 PM			6.25000E+03				
3/28/25 6:57:07 AM			6.29400E+03				
3/31/25 7:02:03 AM			6.07200E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\11_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 4:12:46 PM - 3/31/25 7:02:03 AM
Sample Mean +/- Std Dev : 6214.220 +/- 2.92e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 8:57:22 AM

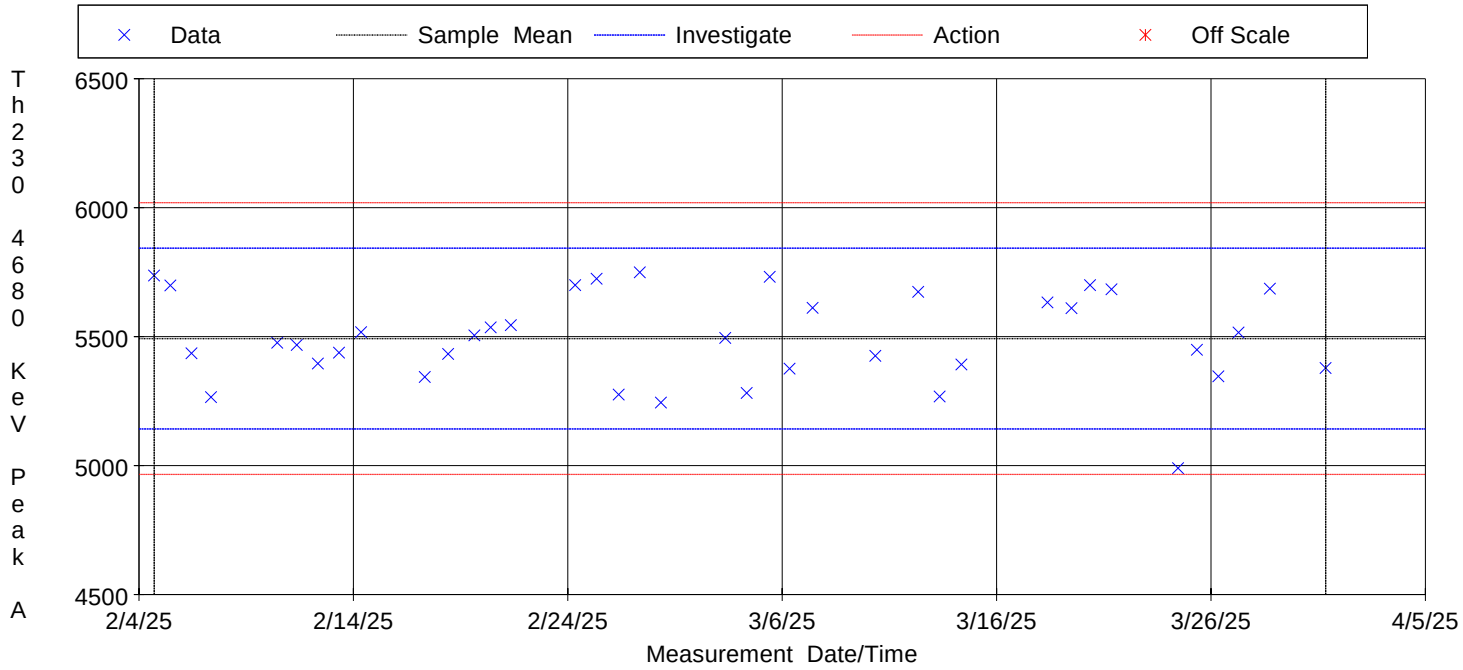
QA File: O:\alpha_sp\2025_QAF\4_April\13
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 4:48:38 PM
Sample End Date: 3/31/25 7:57:20 AM
Sample Mean: 5.49247E+03
Sample Std. Deviation: 1.75494E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 4:48:38 PM			5.73600E+03				
2/5/25 11:00:12 AM			5.69800E+03				
2/6/25 10:28:45 AM			5.43500E+03				
2/7/25 8:34:29 AM			5.26500E+03				
2/10/25 10:36:00 AM			5.47600E+03				
2/11/25 8:18:47 AM			5.46700E+03				
2/12/25 8:10:21 AM			5.39500E+03				
2/13/25 7:47:40 AM			5.43700E+03				
2/14/25 8:25:42 AM			5.51700E+03				
2/17/25 7:36:56 AM			5.34300E+03				
2/18/25 9:51:01 AM			5.43200E+03				
2/19/25 3:08:40 PM			5.50400E+03				
2/20/25 9:24:35 AM			5.53500E+03				
2/21/25 8:03:13 AM			5.54400E+03				
2/24/25 7:58:54 AM			5.69900E+03				
2/25/25 8:07:02 AM			5.72400E+03				
2/26/25 8:38:16 AM			5.27500E+03				
2/27/25 8:17:23 AM			5.74900E+03				
2/28/25 8:13:43 AM			5.24400E+03				
3/3/25 8:05:46 AM			5.49500E+03				
3/4/25 8:09:01 AM			5.28100E+03				
3/5/25 9:46:52 AM			5.73200E+03				
3/6/25 7:58:15 AM			5.37500E+03				
3/7/25 9:40:30 AM			5.61100E+03				
3/10/25 7:56:48 AM			5.42500E+03				
3/12/25 8:09:58 AM			5.67300E+03				
3/13/25 7:58:00 AM			5.26700E+03				
3/14/25 8:30:02 AM			5.39200E+03				
3/18/25 8:41:22 AM			5.63200E+03				
3/19/25 11:41:43 AM			5.61000E+03				
3/20/25 8:33:40 AM			5.69900E+03				
3/21/25 8:15:23 AM			5.68300E+03				
3/24/25 10:48:53 AM			4.99000E+03		In		
3/25/25 8:11:50 AM			5.44900E+03				
3/26/25 8:00:26 AM			5.34600E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/27/25 6:47:55 AM			5.51500E+03				
3/28/25 5:44:08 PM			5.68600E+03				
3/31/25 7:57:20 AM			5.37800E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\13_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 4:48:38 PM - 3/31/25 7:57:20 AM
Sample Mean +/- Std Dev : 5492.474 +/- 1.75e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 8:58:15 AM

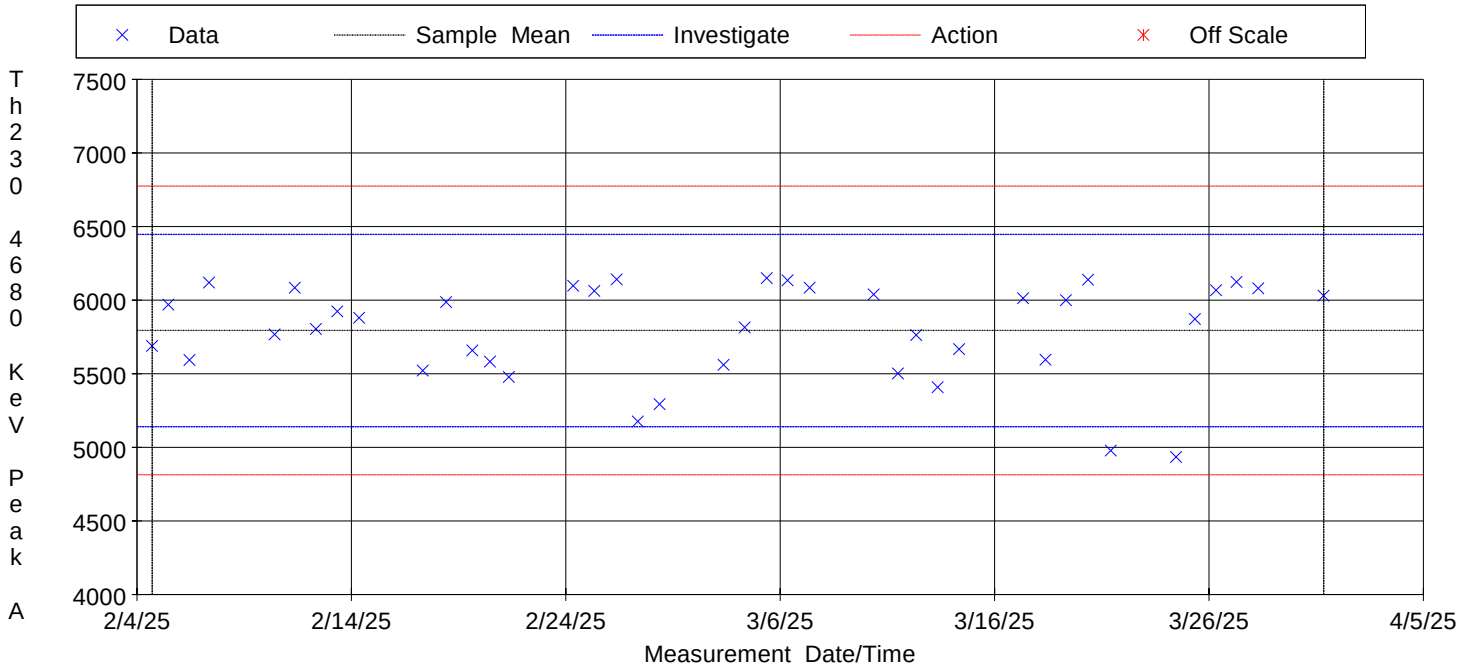
QA File: O:\alpha_sp\2025_QAF\4_April\14
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 4:48:40 PM
Sample End Date: 3/31/25 7:57:22 AM
Sample Mean: 5.79385E+03
Sample Std. Deviation: 3.26817E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 4:48:40 PM			5.68800E+03				
2/5/25 11:00:15 AM			5.96900E+03				
2/6/25 10:28:52 AM			5.59300E+03				
2/7/25 8:34:30 AM			6.11900E+03				
2/10/25 9:59:38 AM			5.76600E+03				
2/11/25 8:18:48 AM			6.08400E+03				
2/12/25 8:10:22 AM			5.80400E+03				
2/13/25 8:11:48 AM			5.92300E+03				
2/14/25 8:25:44 AM			5.87900E+03				
2/17/25 7:36:57 AM			5.52100E+03				
2/18/25 9:51:03 AM			5.98600E+03				
2/19/25 3:08:41 PM			5.65700E+03				
2/20/25 10:54:41 AM			5.58100E+03				
2/21/25 8:03:15 AM			5.47700E+03				
2/24/25 7:58:55 AM			6.09700E+03				
2/25/25 7:39:34 AM			6.06300E+03				
2/26/25 8:38:18 AM			6.14100E+03				
2/27/25 8:17:34 AM			5.17400E+03				
2/28/25 8:39:08 AM			5.29300E+03				
3/3/25 8:34:50 AM			5.55900E+03				
3/4/25 8:09:02 AM			5.81400E+03				
3/5/25 8:38:25 AM			6.14900E+03				
3/6/25 7:58:16 AM			6.13300E+03				
3/7/25 8:44:00 AM			6.08400E+03				
3/10/25 8:23:18 AM			6.03800E+03				
3/11/25 11:42:00 AM			5.50200E+03				
3/12/25 8:09:59 AM			5.76100E+03				
3/13/25 7:58:01 AM			5.40700E+03				
3/14/25 7:59:29 AM			5.66700E+03				
3/17/25 7:45:46 AM			6.01100E+03				
3/18/25 8:41:24 AM			5.59500E+03				
3/19/25 7:48:13 AM			6.00000E+03				
3/20/25 8:33:41 AM			6.13800E+03				
3/21/25 9:47:29 AM			4.97800E+03		In		
3/24/25 10:48:59 AM			4.93300E+03		In		

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:51 AM			5.87100E+03				
3/26/25 7:40:42 AM			6.06700E+03				
3/27/25 6:47:56 AM			6.12300E+03				
3/28/25 6:58:55 AM			6.08000E+03				
3/31/25 7:57:22 AM			6.02900E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\14_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 4:48:40 PM - 3/31/25 7:57:22 AM
Sample Mean +/- Std Dev : 5793.850 +/- 3.27e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:33:13 AM

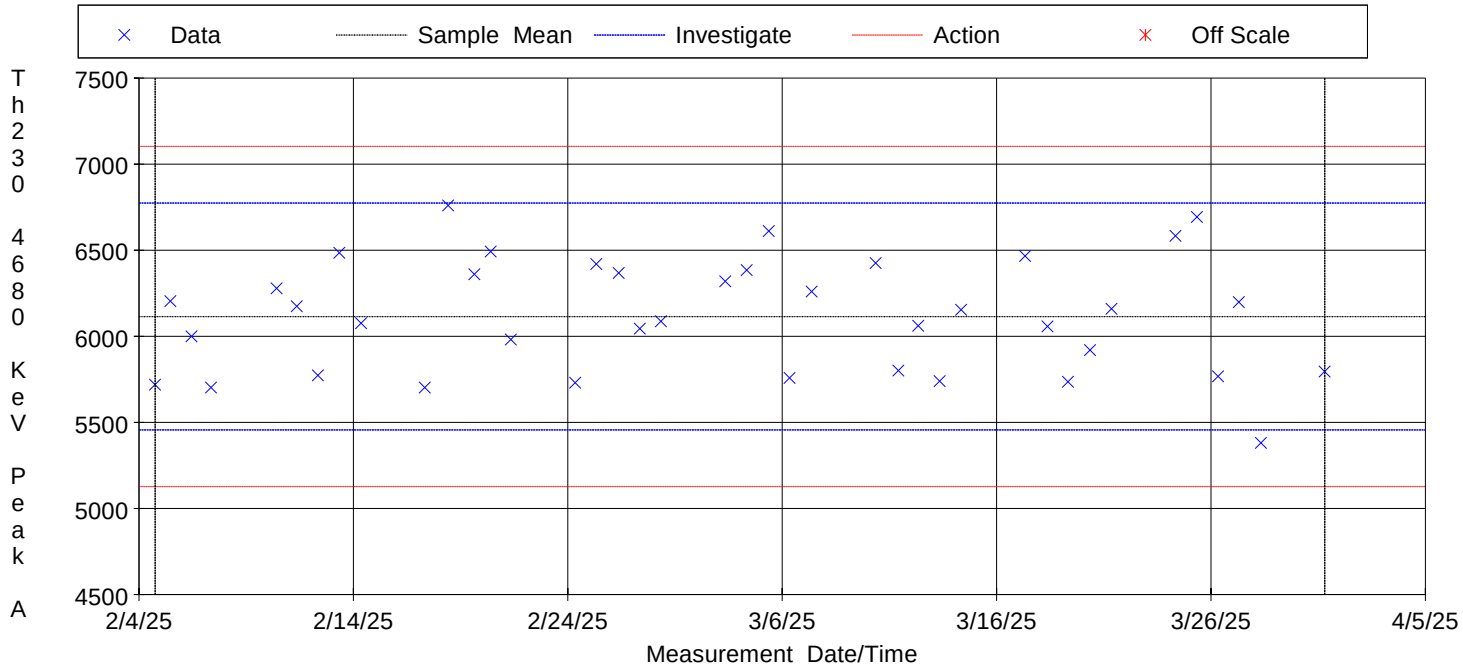
QA File: O:\alpha_sp\2025_QAF\4_April\19
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:35:01 PM
Sample End Date: 3/31/25 7:02:09 AM
Sample Mean: 6.11513E+03
Sample Std. Deviation: 3.29575E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:35:01 PM			5.71900E+03				
2/5/25 11:00:18 AM			6.20300E+03				
2/6/25 10:27:10 AM			6.00000E+03				
2/7/25 8:34:35 AM			5.70100E+03				
2/10/25 9:59:44 AM			6.27700E+03				
2/11/25 8:18:36 AM			6.17300E+03				
2/12/25 8:10:10 AM			5.77300E+03				
2/13/25 8:11:43 AM			6.48500E+03				
2/14/25 8:25:47 AM			6.07500E+03				
2/17/25 7:37:00 AM			5.70100E+03				
2/18/25 9:51:06 AM			6.76000E+03				
2/19/25 3:08:45 PM			6.36000E+03				
2/20/25 9:24:39 AM			6.49200E+03				
2/21/25 8:03:00 AM			5.98000E+03				
2/24/25 7:58:58 AM			5.72900E+03				
2/25/25 7:39:37 AM			6.42000E+03				
2/26/25 8:38:20 AM			6.36800E+03				
2/27/25 8:17:27 AM			6.04400E+03				
2/28/25 8:13:47 AM			6.08700E+03				
3/3/25 8:05:51 AM			6.31900E+03				
3/4/25 8:09:05 AM			6.38400E+03				
3/5/25 8:38:10 AM			6.61000E+03				
3/6/25 7:58:19 AM			5.75800E+03				
3/7/25 8:43:42 AM			6.25900E+03				
3/10/25 8:23:22 AM			6.42400E+03				
3/11/25 9:53:01 AM			5.80100E+03				
3/12/25 8:09:48 AM			6.06000E+03				
3/13/25 7:58:03 AM			5.73800E+03				
3/14/25 7:59:16 AM			6.15400E+03				
3/17/25 7:45:36 AM			6.46600E+03				
3/18/25 8:41:11 AM			6.05600E+03				
3/19/25 7:48:16 AM			5.73500E+03				
3/20/25 8:33:30 AM			5.91900E+03				
3/21/25 8:15:27 AM			6.15900E+03				
3/24/25 8:04:18 AM			6.58300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:40 AM			6.69300E+03				
3/26/25 7:40:45 AM			5.76700E+03				
3/27/25 6:49:34 AM			6.19800E+03				
3/28/25 7:34:26 AM			5.38100E+03		In		
3/31/25 7:02:09 AM			5.79400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\19_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:35:01 PM - 3/31/25 7:02:09 AM
Sample Mean +/- Std Dev : 6115.125 +/- 3.30e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:34:27 AM

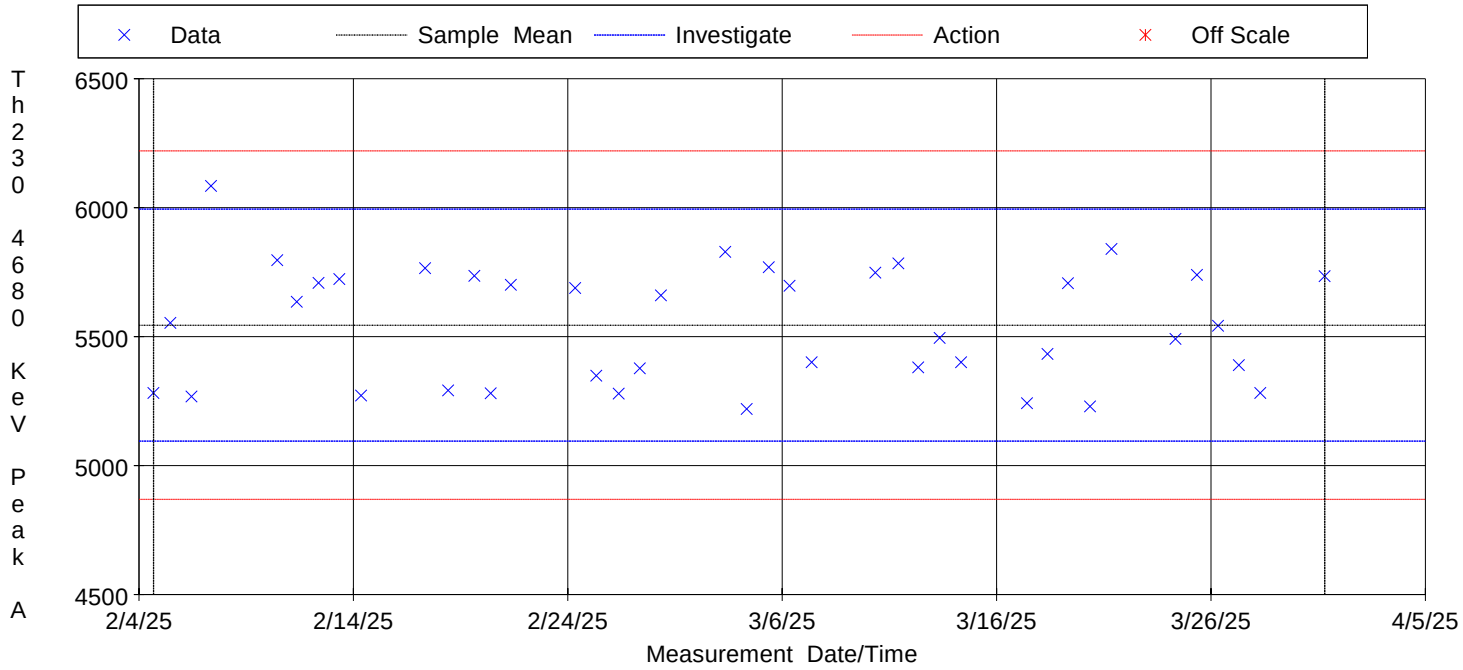
QA File: O:\alpha_sp\2025_QAF\4_April\20
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 3:55:08 PM
Sample End Date: 3/31/25 7:02:10 AM
Sample Mean: 5.54452E+03
Sample Std. Deviation: 2.25052E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 3:55:08 PM			5.28100E+03				
2/5/25 11:00:20 AM			5.55300E+03				
2/6/25 10:27:10 AM			5.26700E+03				
2/7/25 8:34:42 AM			6.08400E+03		In		
2/10/25 10:36:03 AM			5.79600E+03				
2/11/25 8:18:37 AM			5.63400E+03				
2/12/25 8:43:40 AM			5.70800E+03				
2/13/25 8:11:45 AM			5.72300E+03				
2/14/25 8:25:48 AM			5.27100E+03				
2/17/25 8:08:20 AM			5.76500E+03				
2/18/25 9:51:09 AM			5.29100E+03				
2/19/25 3:08:47 PM			5.73500E+03				
2/20/25 9:24:40 AM			5.28000E+03				
2/21/25 8:03:02 AM			5.70000E+03				
2/24/25 7:59:00 AM			5.68800E+03				
2/25/25 7:39:38 AM			5.34800E+03				
2/26/25 8:38:21 AM			5.27800E+03				
2/27/25 8:17:30 AM			5.37600E+03				
2/28/25 8:13:48 AM			5.66000E+03				
3/3/25 8:05:52 AM			5.82800E+03				
3/4/25 8:09:07 AM			5.21900E+03				
3/5/25 8:38:11 AM			5.76900E+03				
3/6/25 7:58:20 AM			5.69700E+03				
3/7/25 8:43:43 AM			5.40000E+03				
3/10/25 7:56:30 AM			5.74800E+03				
3/11/25 9:53:02 AM			5.78400E+03				
3/12/25 8:09:49 AM			5.38000E+03				
3/13/25 7:58:04 AM			5.49400E+03				
3/14/25 7:59:18 AM			5.40000E+03				
3/17/25 9:44:23 AM			5.24100E+03				
3/18/25 8:41:12 AM			5.43200E+03				
3/19/25 7:48:18 AM			5.70700E+03				
3/20/25 8:33:31 AM			5.22900E+03				
3/21/25 8:15:28 AM			5.83900E+03				
3/24/25 8:04:18 AM			5.49100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:42 AM			5.73900E+03				
3/26/25 7:40:46 AM			5.54200E+03				
3/27/25 6:49:38 AM			5.38900E+03				
3/28/25 7:00:59 AM			5.28100E+03				
3/31/25 7:02:10 AM			5.73400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\20_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 3:55:08 PM - 3/31/25 7:02:10 AM
Sample Mean +/- Std Dev : 5544.525 +/- 2.25e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:36:32 AM

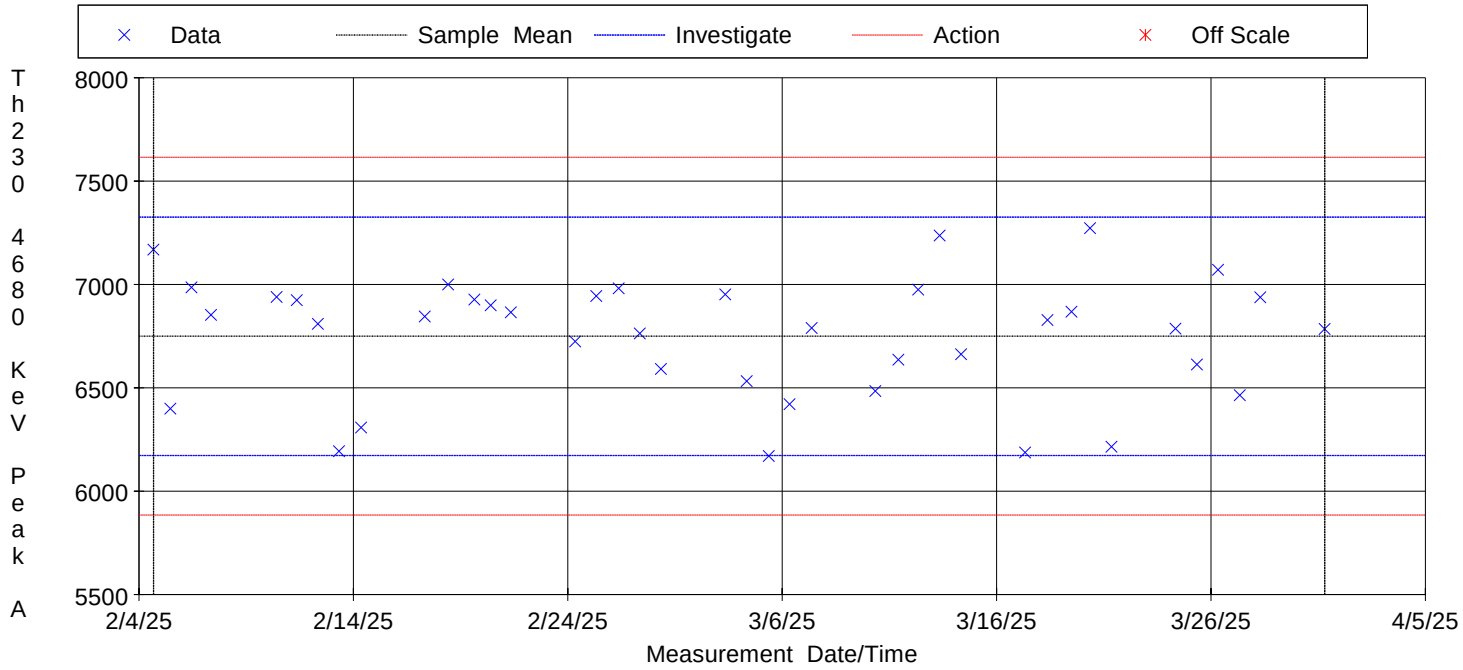
QA File: O:\alpha_sp\2025_QAF\4_April\21
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 3:57:45 PM
Sample End Date: 3/31/25 7:02:11 AM
Sample Mean: 6.74960E+03
Sample Std. Deviation: 2.88430E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 3:57:45 PM			7.16800E+03				
2/5/25 11:00:23 AM			6.39800E+03				
2/6/25 10:27:12 AM			6.98600E+03				
2/7/25 8:34:43 AM			6.85200E+03				
2/10/25 9:59:52 AM			6.93900E+03				
2/11/25 8:18:38 AM			6.92400E+03				
2/12/25 8:10:12 AM			6.80900E+03				
2/13/25 7:47:47 AM			6.19300E+03				
2/14/25 8:25:49 AM			6.30800E+03				
2/17/25 7:37:02 AM			6.84400E+03				
2/18/25 9:51:10 AM			6.99900E+03				
2/19/25 3:17:16 PM			6.92600E+03				
2/20/25 9:24:41 AM			6.89900E+03				
2/21/25 8:03:03 AM			6.86400E+03				
2/24/25 7:59:02 AM			6.72400E+03				
2/25/25 7:39:39 AM			6.94300E+03				
2/26/25 8:38:22 AM			6.98100E+03				
2/27/25 8:17:31 AM			6.76200E+03				
2/28/25 8:13:49 AM			6.59100E+03				
3/3/25 8:05:53 AM			6.95200E+03				
3/4/25 8:09:08 AM			6.53200E+03				
3/5/25 8:38:12 AM			6.17000E+03		In		
3/6/25 7:58:22 AM			6.42000E+03				
3/7/25 8:43:44 AM			6.78900E+03				
3/10/25 7:56:33 AM			6.48300E+03				
3/11/25 9:53:03 AM			6.63600E+03				
3/12/25 8:09:50 AM			6.97400E+03				
3/13/25 7:58:05 AM			7.23600E+03				
3/14/25 7:59:19 AM			6.66200E+03				
3/17/25 7:45:38 AM			6.18600E+03				
3/18/25 8:41:13 AM			6.82700E+03				
3/19/25 11:41:48 AM			6.86700E+03				
3/20/25 8:33:32 AM			7.27200E+03				
3/21/25 8:15:29 AM			6.21500E+03				
3/24/25 8:04:19 AM			6.78500E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:43 AM			6.61200E+03				
3/26/25 7:40:47 AM			7.07000E+03				
3/27/25 8:10:41 AM			6.46400E+03				
3/28/25 7:00:14 AM			6.93800E+03				
3/31/25 7:02:11 AM			6.78400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\21_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 3:57:45 PM - 3/31/25 7:02:11 AM
Sample Mean +/- Std Dev : 6749.600 +/- 2.88e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:38:17 AM

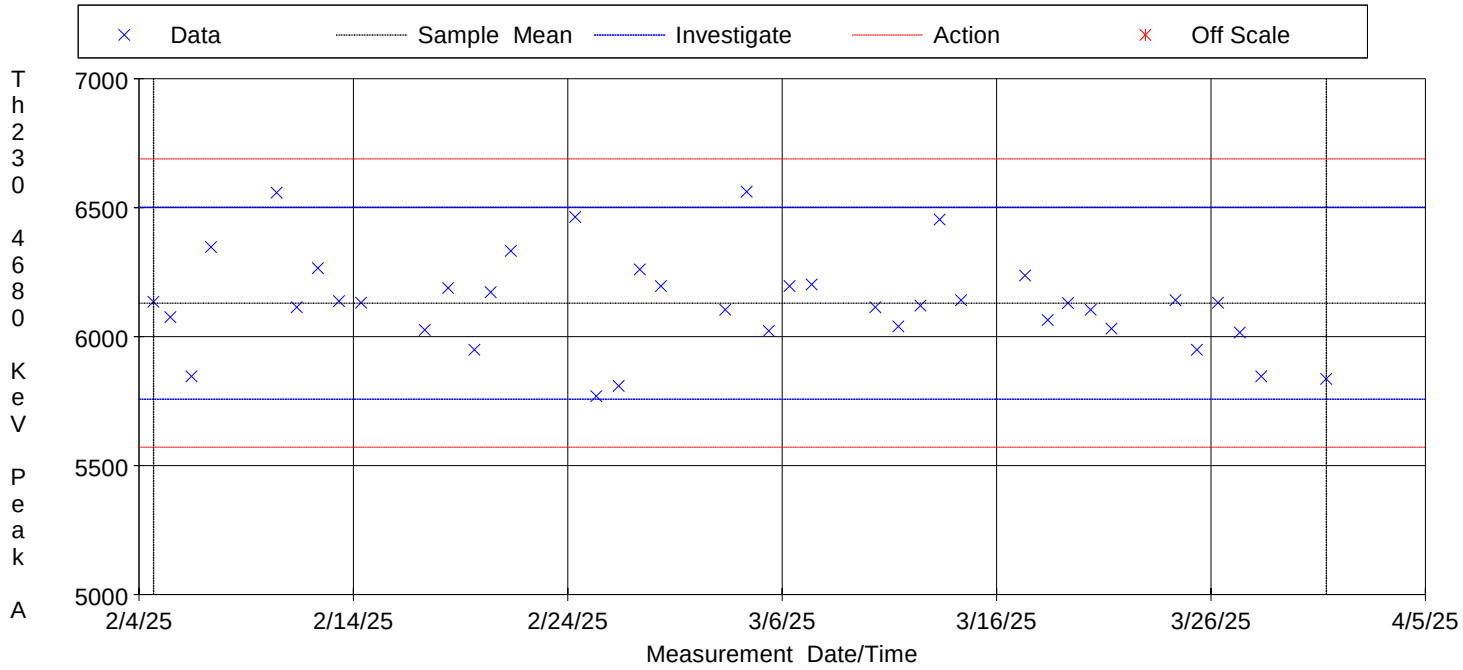
QA File: O:\alpha_sp\2025_QAF\4_April\23
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 3:57:47 PM
Sample End Date: 3/31/25 8:41:27 AM
Sample Mean: 6.13000E+03
Sample Std. Deviation: 1.86213E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 3:57:47 PM			6.13400E+03				
2/5/25 11:00:25 AM			6.07500E+03				
2/6/25 10:27:13 AM			5.84600E+03				
2/7/25 8:34:44 AM			6.34700E+03				
2/10/25 9:59:56 AM			6.55800E+03		In		
2/11/25 8:18:40 AM			6.11300E+03				
2/12/25 8:10:14 AM			6.26500E+03				
2/13/25 7:47:48 AM			6.13700E+03				
2/14/25 8:25:50 AM			6.13100E+03				
2/17/25 7:37:03 AM			6.02500E+03				
2/18/25 9:51:12 AM			6.18800E+03				
2/19/25 3:08:50 PM			5.94800E+03				
2/20/25 9:24:42 AM			6.17200E+03				
2/21/25 8:03:04 AM			6.33200E+03				
2/24/25 7:59:03 AM			6.46400E+03				
2/25/25 7:39:40 AM			5.76800E+03				
2/26/25 8:38:23 AM			5.80800E+03				
2/27/25 8:17:32 AM			6.26000E+03				
2/28/25 8:13:50 AM			6.19600E+03				
3/3/25 8:05:54 AM			6.10300E+03				
3/4/25 8:09:09 AM			6.56200E+03		In		
3/5/25 8:38:13 AM			6.02200E+03				
3/6/25 7:58:23 AM			6.19500E+03				
3/7/25 8:43:46 AM			6.20200E+03				
3/10/25 7:56:34 AM			6.11400E+03				
3/11/25 9:53:04 AM			6.03900E+03				
3/12/25 10:44:09 AM			6.12000E+03				
3/13/25 7:58:06 AM			6.45400E+03				
3/14/25 7:59:20 AM			6.14100E+03				
3/17/25 7:45:39 AM			6.23600E+03				
3/18/25 9:05:46 AM			6.06400E+03				
3/19/25 7:48:20 AM			6.13000E+03				
3/20/25 9:00:17 AM			6.10300E+03				
3/21/25 8:15:30 AM			6.03100E+03				
3/24/25 8:04:20 AM			6.14100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:44 AM			5.94800E+03				
3/26/25 7:40:48 AM			6.13100E+03				
3/27/25 8:10:42 AM			6.01600E+03				
3/28/25 7:54:39 AM			5.84500E+03				
3/31/25 8:41:27 AM			5.83600E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\23_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 3:57:47 PM - 3/31/25 8:41:27 AM
Sample Mean +/- Std Dev : 6130.000 +/- 1.86e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:39:26 AM

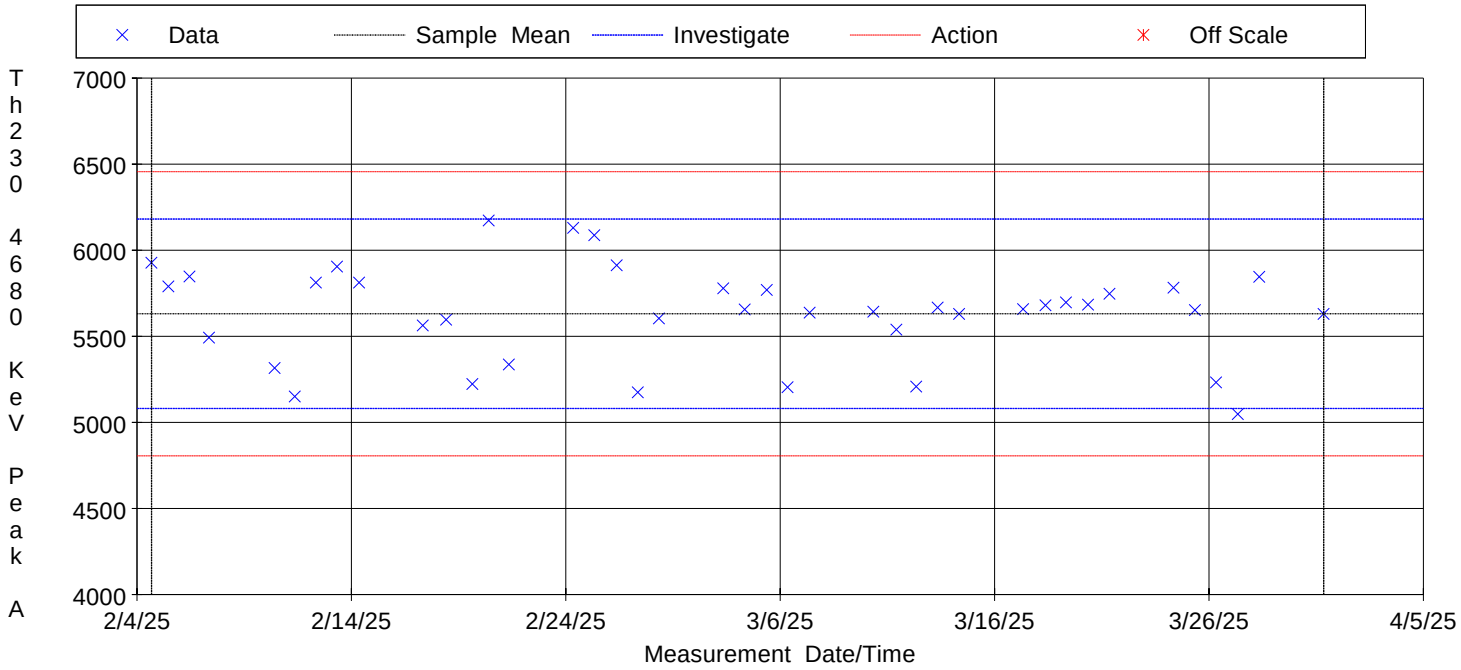
QA File: O:\alpha_sp\2025_QAF\4_April\24
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 3:57:49 PM
Sample End Date: 3/31/25 8:03:16 AM
Sample Mean: 5.63048E+03
Sample Std. Deviation: 2.75078E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 3:57:49 PM			5.92700E+03				
2/5/25 11:00:27 AM			5.78900E+03				
2/6/25 10:27:14 AM			5.84700E+03				
2/7/25 8:34:45 AM			5.49100E+03				
2/10/25 10:00:01 AM			5.31500E+03				
2/11/25 8:18:41 AM			5.15000E+03				
2/12/25 8:10:15 AM			5.81200E+03				
2/13/25 7:47:51 AM			5.90400E+03				
2/14/25 8:25:51 AM			5.81200E+03				
2/17/25 7:37:04 AM			5.56300E+03				
2/18/25 9:51:14 AM			5.59600E+03				
2/19/25 3:08:51 PM			5.22300E+03				
2/20/25 9:24:42 AM			6.17200E+03				
2/21/25 8:03:04 AM			5.33500E+03				
2/24/25 7:59:04 AM			6.12900E+03				
2/25/25 7:39:41 AM			6.08600E+03				
2/26/25 8:38:25 AM			5.91200E+03				
2/27/25 8:17:34 AM			5.17400E+03				
2/28/25 8:13:51 AM			5.60400E+03				
3/3/25 8:05:56 AM			5.77700E+03				
3/4/25 8:09:10 AM			5.65600E+03				
3/5/25 8:38:16 AM			5.76900E+03				
3/6/25 7:58:24 AM			5.20400E+03				
3/7/25 8:43:48 AM			5.63600E+03				
3/10/25 7:56:35 AM			5.64200E+03				
3/11/25 9:53:06 AM			5.53900E+03				
3/12/25 8:09:52 AM			5.20800E+03				
3/13/25 7:58:08 AM			5.66700E+03				
3/14/25 7:59:21 AM			5.63000E+03				
3/17/25 7:45:40 AM			5.65700E+03				
3/18/25 8:41:15 AM			5.67900E+03				
3/19/25 7:48:22 AM			5.69700E+03				
3/20/25 8:33:34 AM			5.68400E+03				
3/21/25 8:15:31 AM			5.74600E+03				
3/24/25 8:04:22 AM			5.78200E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:11:45 AM			5.65100E+03				
3/26/25 7:40:49 AM			5.23200E+03				
3/27/25 8:10:44 AM			5.04700E+03	In			
3/28/25 7:54:39 AM			5.84500E+03				
3/31/25 8:03:16 AM			5.63000E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\24_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 3:57:49 PM - 3/31/25 8:03:16 AM
Sample Mean +/- Std Dev : 5630.475 +/- 2.75e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

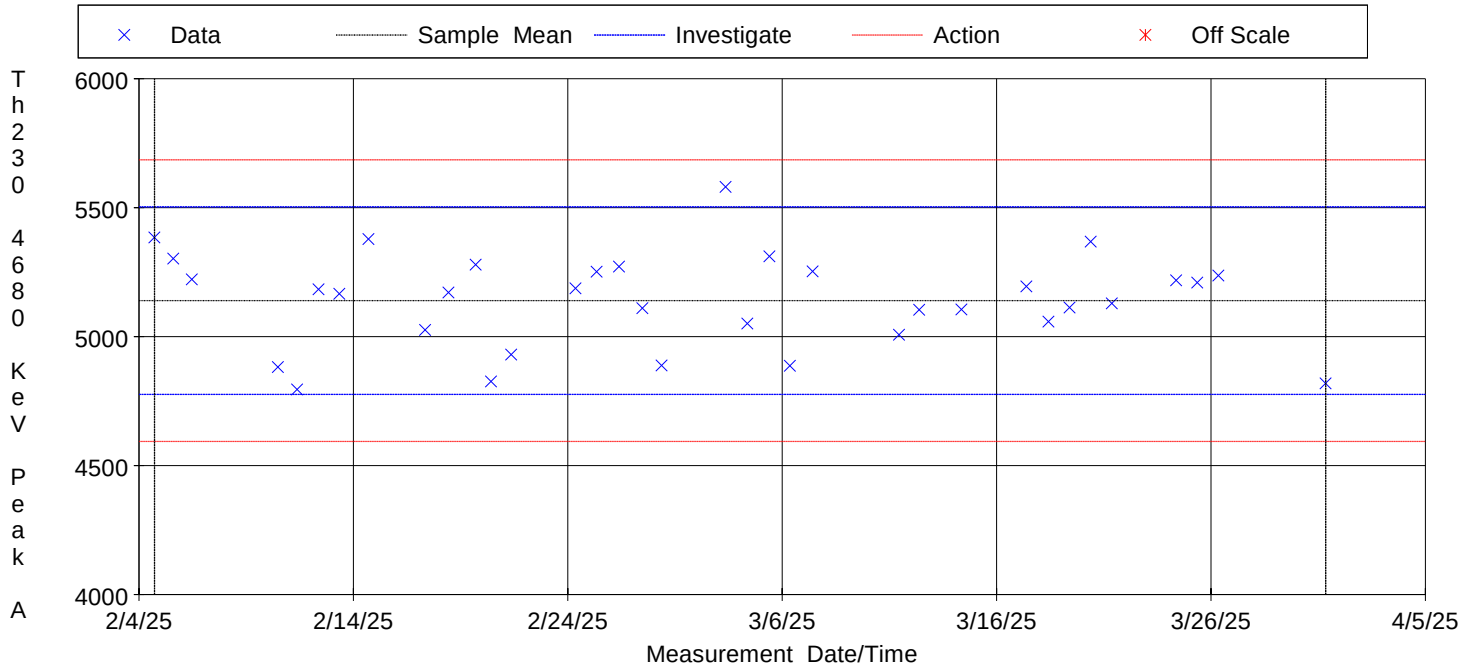
Full Parameter Results Report
4/2/25 10:40:47 AM

QA File: O:\alpha_sp\2025_QAF\4_April\25
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:04:11 PM
Sample End Date: 3/31/25 8:03:18 AM
Sample Mean: 5.13957E+03
Sample Std. Deviation: 1.81837E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:04:11 PM			5.38400E+03				
2/5/25 2:19:41 PM			5.30200E+03				
2/6/25 10:48:27 AM			5.22100E+03				
2/10/25 11:18:35 AM			4.88200E+03				
2/11/25 8:41:38 AM			4.79500E+03				
2/12/25 8:43:30 AM			5.18300E+03				
2/13/25 8:11:49 AM			5.16600E+03				
2/14/25 4:38:09 PM			5.37800E+03				
2/17/25 8:08:22 AM			5.02500E+03				
2/18/25 10:14:01 AM			5.17100E+03				
2/19/25 4:34:07 PM			5.27900E+03				
2/20/25 9:54:31 AM			4.82600E+03				
2/21/25 8:32:18 AM			4.93000E+03				
2/24/25 8:23:41 AM			5.18700E+03				
2/25/25 8:06:46 AM			5.25100E+03				
2/26/25 8:58:20 AM			5.27100E+03				
2/27/25 11:26:55 AM			5.11000E+03				
2/28/25 8:38:54 AM			4.88800E+03				
3/3/25 8:34:52 AM			5.58000E+03	In			
3/4/25 8:39:15 AM			5.05000E+03				
3/5/25 9:28:33 AM			5.31100E+03				
3/6/25 8:27:17 AM			4.88600E+03				
3/7/25 9:48:24 AM			5.25300E+03				
3/11/25 10:31:47 AM			5.00700E+03				
3/12/25 8:59:38 AM			5.10300E+03				
3/14/25 8:30:05 AM			5.10500E+03				
3/17/25 9:04:55 AM			5.19400E+03				
3/18/25 9:59:31 AM			5.05800E+03				
3/19/25 9:25:40 AM			5.11200E+03				
3/20/25 9:00:08 AM			5.36800E+03				
3/21/25 8:35:57 AM			5.12800E+03				
3/24/25 8:57:06 AM			5.21800E+03				
3/25/25 8:33:34 AM			5.20900E+03				
3/26/25 8:00:33 AM			5.23600E+03				
3/31/25 8:03:18 AM			4.81800E+03				

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\25_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:04:11 PM - 3/31/25 8:03:18 AM
Sample Mean +/- Std Dev : 5139.571 +/- 1.82e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:41:51 AM

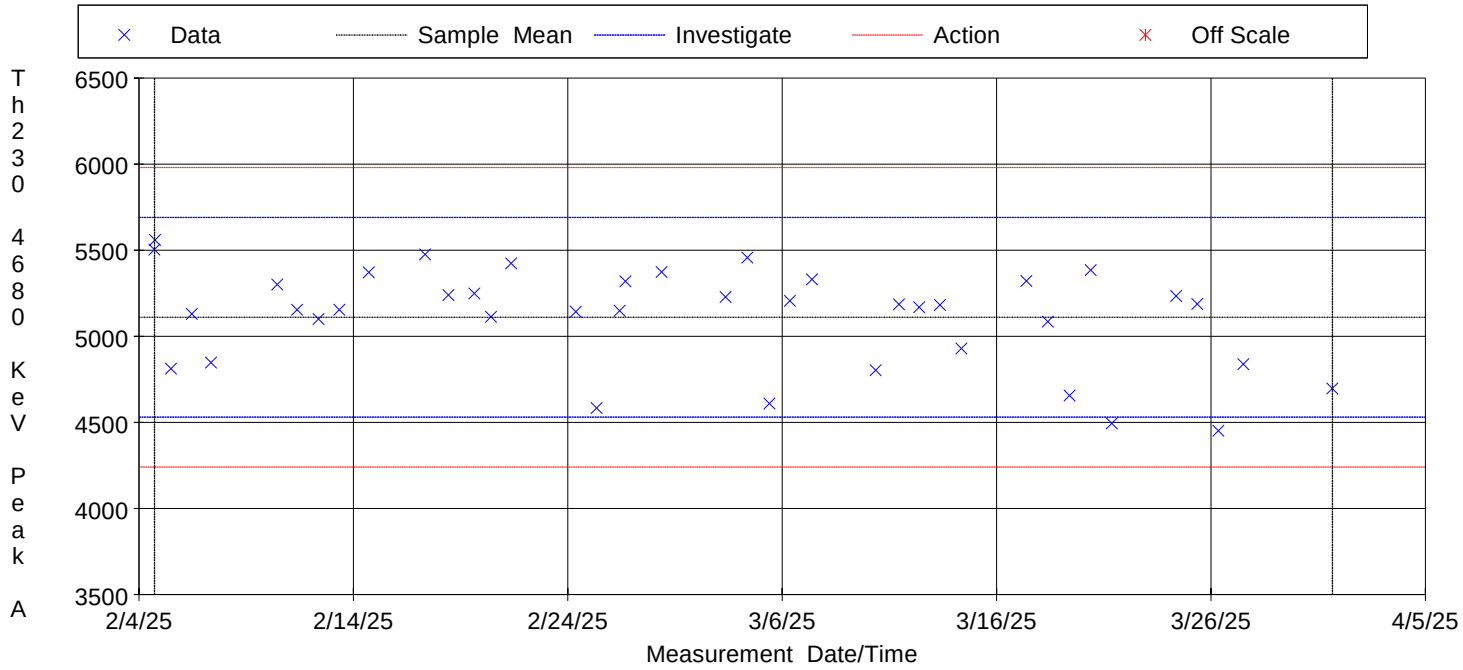
QA File: O:\alpha_sp\2025_QAF\4_April\26
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:04:13 PM
Sample End Date: 3/31/25 3:34:17 PM
Sample Mean: 5.11042E+03
Sample Std. Deviation: 2.89732E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:04:13 PM			5.50300E+03				
2/4/25 5:37:12 PM			5.55900E+03				
2/5/25 11:34:19 AM			4.81200E+03				
2/6/25 10:48:29 AM			5.12900E+03				
2/7/25 8:34:49 AM			4.84600E+03				
2/10/25 10:35:46 AM			5.30000E+03				
2/11/25 8:41:39 AM			5.15300E+03				
2/12/25 8:43:31 AM			5.10000E+03				
2/13/25 8:11:51 AM			5.15300E+03				
2/14/25 5:10:02 PM			5.37000E+03				
2/17/25 8:08:26 AM			5.47400E+03				
2/18/25 10:14:04 AM			5.23900E+03				
2/19/25 3:11:48 PM			5.24900E+03				
2/20/25 9:54:32 AM			5.11200E+03				
2/21/25 8:32:19 AM			5.42300E+03				
2/24/25 8:36:02 AM			5.14200E+03				
2/25/25 8:06:47 AM			4.58200E+03				
2/26/25 9:42:33 AM			5.14800E+03				
2/26/25 4:15:10 PM			5.31800E+03				
2/28/25 8:38:55 AM			5.37200E+03				
3/3/25 8:34:53 AM			5.22800E+03				
3/4/25 8:39:16 AM			5.45600E+03				
3/5/25 9:28:34 AM			4.60900E+03				
3/6/25 8:27:19 AM			5.20500E+03				
3/7/25 9:00:11 AM			5.32900E+03				
3/10/25 8:22:29 AM			4.80200E+03				
3/11/25 10:31:49 AM			5.18500E+03				
3/12/25 8:59:39 AM			5.16800E+03				
3/13/25 8:32:31 AM			5.18100E+03				
3/14/25 8:30:07 AM			4.92900E+03				
3/17/25 9:04:56 AM			5.32000E+03				
3/18/25 9:05:51 AM			5.08500E+03				
3/19/25 9:25:42 AM			4.65500E+03				
3/20/25 9:00:10 AM			5.38300E+03				
3/21/25 8:35:58 AM			4.49400E+03		In		

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 8:57:07 AM			5.23400E+03				
3/25/25 8:33:35 AM			5.18700E+03				
3/26/25 8:00:34 AM			4.45000E+03	In			
3/27/25 12:00:29 PM			4.83700E+03				
3/31/25 3:34:17 PM			4.69600E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\26_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:04:13 PM - 3/31/25 3:34:17 PM
Sample Mean +/- Std Dev : 5110.425 +/- 2.90e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:42:43 AM

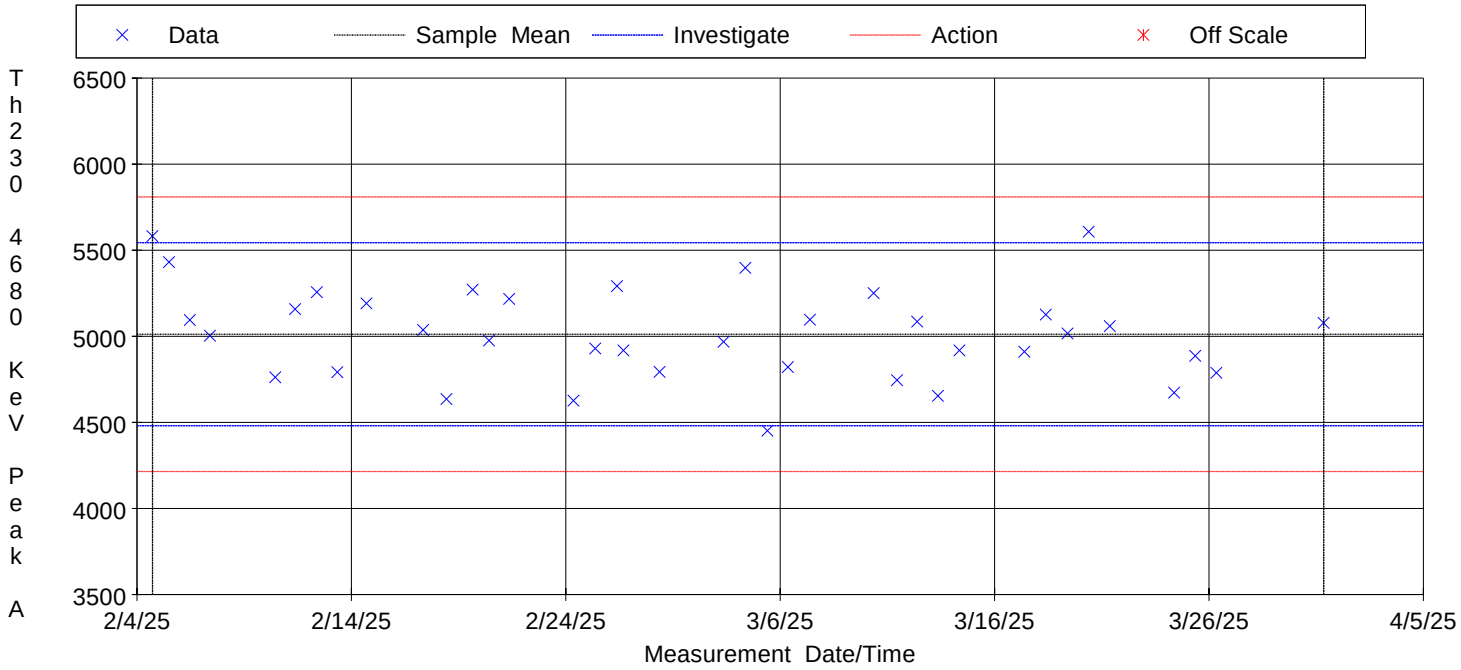
QA File: O:\alpha_sp\2025_QAF\4_April\27
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:03:48 PM
Sample End Date: 3/31/25 8:03:21 AM
Sample Mean: 5.01232E+03
Sample Std. Deviation: 2.66001E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:03:48 PM			5.58100E+03		In		
2/5/25 11:34:20 AM			5.43000E+03				
2/6/25 10:48:35 AM			5.09400E+03				
2/7/25 9:27:28 AM			5.00300E+03				
2/10/25 10:35:47 AM			4.76100E+03				
2/11/25 8:41:40 AM			5.15700E+03				
2/12/25 9:06:15 AM			5.25600E+03				
2/13/25 8:11:52 AM			4.79000E+03				
2/14/25 4:38:13 PM			5.19000E+03				
2/17/25 8:08:27 AM			5.03600E+03				
2/18/25 10:14:05 AM			4.63400E+03				
2/19/25 3:44:35 PM			5.27000E+03				
2/20/25 9:54:33 AM			4.97500E+03				
2/21/25 8:32:20 AM			5.21700E+03				
2/24/25 8:23:46 AM			4.62500E+03				
2/25/25 8:46:41 AM			4.92800E+03				
2/26/25 8:58:22 AM			5.29100E+03				
2/26/25 4:15:12 PM			4.91800E+03				
2/28/25 8:38:56 AM			4.79300E+03				
3/3/25 8:34:54 AM			4.96700E+03				
3/4/25 8:39:17 AM			5.39600E+03				
3/5/25 9:28:35 AM			4.45100E+03		In		
3/6/25 8:27:20 AM			4.82100E+03				
3/7/25 9:00:12 AM			5.09600E+03				
3/10/25 8:22:59 AM			5.25000E+03				
3/11/25 10:31:50 AM			4.74400E+03				
3/12/25 8:59:41 AM			5.08400E+03				
3/13/25 8:32:32 AM			4.65400E+03				
3/14/25 8:30:08 AM			4.91800E+03				
3/17/25 9:04:57 AM			4.90900E+03				
3/18/25 9:05:53 AM			5.12500E+03				
3/19/25 9:25:43 AM			5.01600E+03				
3/20/25 9:00:11 AM			5.60600E+03		In		
3/21/25 8:35:59 AM			5.05900E+03				
3/24/25 8:57:08 AM			4.67200E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:33:36 AM			4.88600E+03				
3/26/25 8:00:36 AM			4.78700E+03				
3/31/25 8:03:21 AM			5.07800E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\27_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:03:48 PM - 3/31/25 8:03:21 AM
Sample Mean +/- Std Dev : 5012.316 +/- 2.66e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:43:33 AM

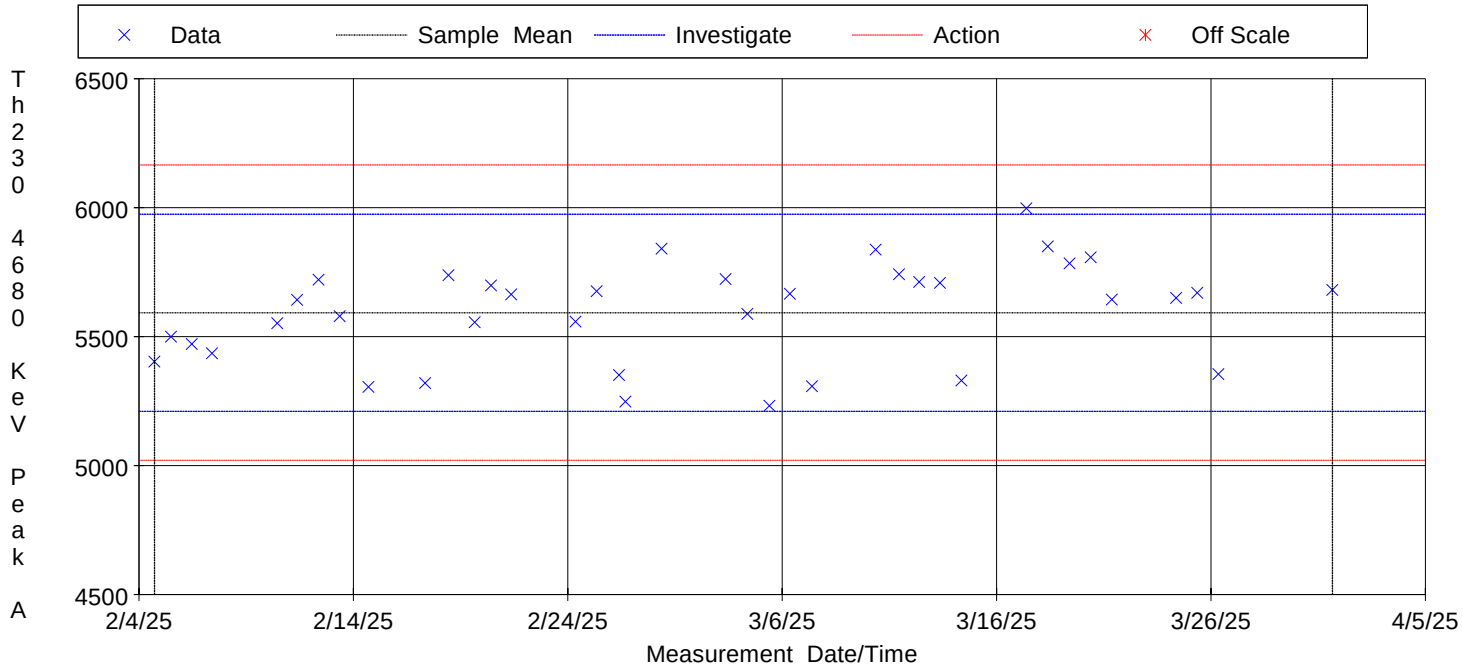
QA File: O:\alpha_sp\2025_QAF\4_April\28
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:04:23 PM
Sample End Date: 3/31/25 3:30:03 PM
Sample Mean: 5.59279E+03
Sample Std. Deviation: 1.90954E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:04:23 PM			5.40300E+03				
2/5/25 11:34:21 AM			5.50000E+03				
2/6/25 10:48:38 AM			5.47100E+03				
2/7/25 9:27:30 AM			5.43500E+03				
2/10/25 10:35:49 AM			5.55200E+03				
2/11/25 8:41:42 AM			5.64200E+03				
2/12/25 8:43:33 AM			5.72000E+03				
2/13/25 8:35:19 AM			5.57900E+03				
2/14/25 4:38:15 PM			5.30500E+03				
2/17/25 8:08:28 AM			5.31900E+03				
2/18/25 10:14:06 AM			5.73800E+03				
2/19/25 3:45:05 PM			5.55500E+03				
2/20/25 9:54:34 AM			5.69800E+03				
2/21/25 8:32:21 AM			5.66300E+03				
2/24/25 8:23:48 AM			5.55800E+03				
2/25/25 8:06:49 AM			5.67500E+03				
2/26/25 8:58:23 AM			5.35000E+03				
2/26/25 4:15:13 PM			5.24700E+03				
2/28/25 8:38:57 AM			5.84100E+03				
3/3/25 8:34:54 AM			5.72300E+03				
3/4/25 8:39:19 AM			5.58700E+03				
3/5/25 9:28:36 AM			5.23200E+03				
3/6/25 8:27:21 AM			5.66600E+03				
3/7/25 9:00:12 AM			5.30700E+03				
3/10/25 8:22:32 AM			5.83700E+03				
3/11/25 10:31:51 AM			5.74100E+03				
3/12/25 8:59:42 AM			5.71200E+03				
3/13/25 8:32:33 AM			5.70800E+03				
3/14/25 8:30:09 AM			5.33000E+03				
3/17/25 9:04:58 AM			5.99700E+03	In			
3/18/25 9:05:54 AM			5.84900E+03				
3/19/25 9:25:44 AM			5.78400E+03				
3/20/25 9:00:12 AM			5.80700E+03				
3/21/25 8:36:00 AM			5.64300E+03				
3/24/25 8:57:09 AM			5.64900E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:33:37 AM			5.66900E+03				
3/26/25 8:00:37 AM			5.35400E+03				
3/31/25 3:30:03 PM			5.68000E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\28_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:04:23 PM - 3/31/25 3:30:03 PM
Sample Mean +/- Std Dev : 5592.790 +/- 1.91e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

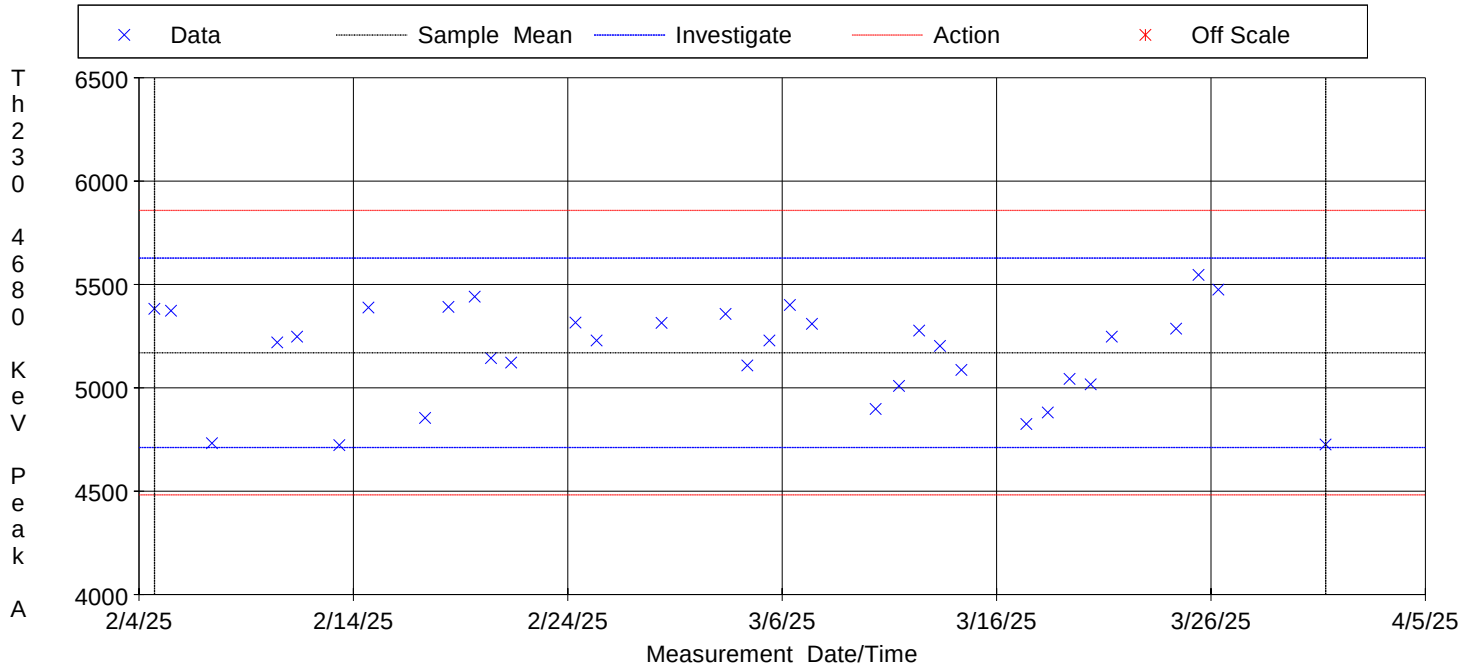
Full Parameter Results Report
4/2/25 10:44:12 AM

QA File: O:\alpha_sp\2025_QAF\4_April\29
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:04:25 PM
Sample End Date: 3/31/25 8:03:24 AM
Sample Mean: 5.17006E+03
Sample Std. Deviation: 2.29212E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:04:25 PM			5.38100E+03				
2/5/25 11:34:22 AM			5.37200E+03				
2/7/25 9:27:33 AM			4.73200E+03				
2/10/25 10:35:50 AM			5.21900E+03				
2/11/25 8:41:43 AM			5.24700E+03				
2/13/25 8:11:54 AM			4.72200E+03				
2/14/25 4:40:33 PM			5.38800E+03				
2/17/25 8:08:29 AM			4.85300E+03				
2/18/25 10:14:07 AM			5.39100E+03				
2/19/25 3:44:38 PM			5.44100E+03				
2/20/25 9:54:36 AM			5.14300E+03				
2/21/25 8:32:22 AM			5.12200E+03				
2/24/25 8:23:50 AM			5.31500E+03				
2/25/25 8:06:50 AM			5.22800E+03				
2/28/25 8:38:58 AM			5.31400E+03				
3/3/25 8:34:55 AM			5.35700E+03				
3/4/25 8:39:20 AM			5.10800E+03				
3/5/25 9:28:37 AM			5.22800E+03				
3/6/25 8:27:22 AM			5.40000E+03				
3/7/25 9:00:13 AM			5.30900E+03				
3/10/25 8:22:34 AM			4.89700E+03				
3/11/25 10:31:52 AM			5.00900E+03				
3/12/25 8:59:43 AM			5.27700E+03				
3/13/25 8:32:34 AM			5.20200E+03				
3/14/25 8:30:11 AM			5.08600E+03				
3/17/25 9:04:59 AM			4.82400E+03				
3/18/25 9:05:55 AM			4.88000E+03				
3/19/25 9:25:45 AM			5.04300E+03				
3/20/25 9:00:13 AM			5.01600E+03				
3/21/25 8:36:01 AM			5.24700E+03				
3/24/25 8:57:11 AM			5.28600E+03				
3/25/25 9:51:30 AM			5.54500E+03				
3/26/25 8:00:38 AM			5.47500E+03				
3/31/25 8:03:24 AM			4.72500E+03				

Flags Key:
LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\29_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:04:25 PM - 3/31/25 8:03:24 AM
Sample Mean +/- Std Dev : 5170.059 +/- 2.29e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:45:00 AM

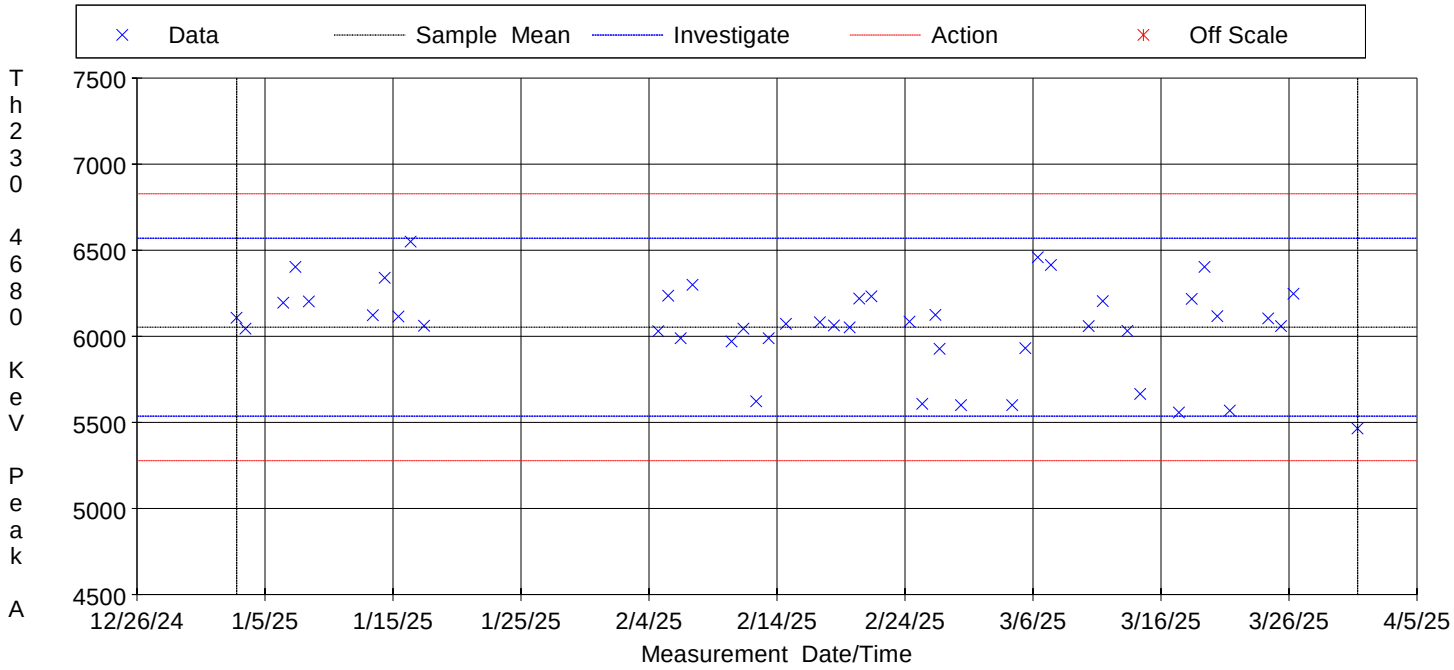
QA File: O:\alpha_sp\2025_QAF\4_April\30
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 1/2/25 6:04:32 PM
Sample End Date: 3/31/25 8:22:01 AM
Sample Mean: 6.05335E+03
Sample Std. Deviation: 2.58253E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
1/2/25 6:04:32 PM			6.10700E+03				
1/3/25 11:23:55 AM			6.04400E+03				
1/6/25 9:40:22 AM			6.19400E+03				
1/7/25 8:36:34 AM			6.40300E+03				
1/8/25 9:36:48 AM			6.20100E+03				
1/13/25 9:47:25 AM			6.12100E+03				
1/14/25 7:53:25 AM			6.33900E+03				
1/15/25 9:58:49 AM			6.11400E+03				
1/16/25 8:38:57 AM			6.55000E+03				
1/17/25 9:49:12 AM			6.06000E+03				
2/4/25 5:04:33 PM			6.02900E+03				
2/5/25 11:34:23 AM			6.23500E+03				
2/6/25 10:48:41 AM			5.98700E+03				
2/7/25 9:27:35 AM			6.29900E+03				
2/10/25 10:35:52 AM			5.96900E+03				
2/11/25 8:41:44 AM			6.04400E+03				
2/12/25 8:43:35 AM			5.62100E+03				
2/13/25 8:11:55 AM			5.98800E+03				
2/14/25 4:38:18 PM			6.07200E+03				
2/17/25 8:08:30 AM			6.08100E+03				
2/18/25 10:14:09 AM			6.06300E+03				
2/19/25 3:44:40 PM			6.05100E+03				
2/20/25 9:54:37 AM			6.21900E+03				
2/21/25 8:32:24 AM			6.23100E+03				
2/24/25 8:23:53 AM			6.08500E+03				
2/25/25 8:06:52 AM			5.60600E+03				
2/26/25 8:58:26 AM			6.12400E+03				
2/26/25 4:38:10 PM			5.92700E+03				
2/28/25 8:38:59 AM			5.59900E+03				
3/4/25 8:39:21 AM			5.59900E+03				
3/5/25 9:28:38 AM			5.93000E+03				
3/6/25 8:27:23 AM			6.45900E+03				
3/7/25 9:00:15 AM			6.41300E+03				
3/10/25 8:22:35 AM			6.05900E+03				
3/11/25 10:31:53 AM			6.20400E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/13/25 8:32:35 AM			6.03100E+03				
3/14/25 8:30:12 AM			5.66500E+03				
3/17/25 9:05:00 AM			5.55700E+03				
3/18/25 9:05:56 AM			6.21600E+03				
3/19/25 9:25:46 AM			6.40300E+03				
3/20/25 9:00:14 AM			6.11600E+03				
3/21/25 8:36:02 AM			5.56700E+03				
3/24/25 8:57:12 AM			6.10300E+03				
3/25/25 8:33:39 AM			6.05800E+03				
3/26/25 8:00:39 AM			6.24700E+03				
3/31/25 8:22:01 AM			5.46400E+03		In		

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\30_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 1/02/25 6:04:32 PM - 3/31/25 8:22:01 AM
Sample Mean +/- Std Dev : 6053.348 +/- 2.58e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:45:59 AM

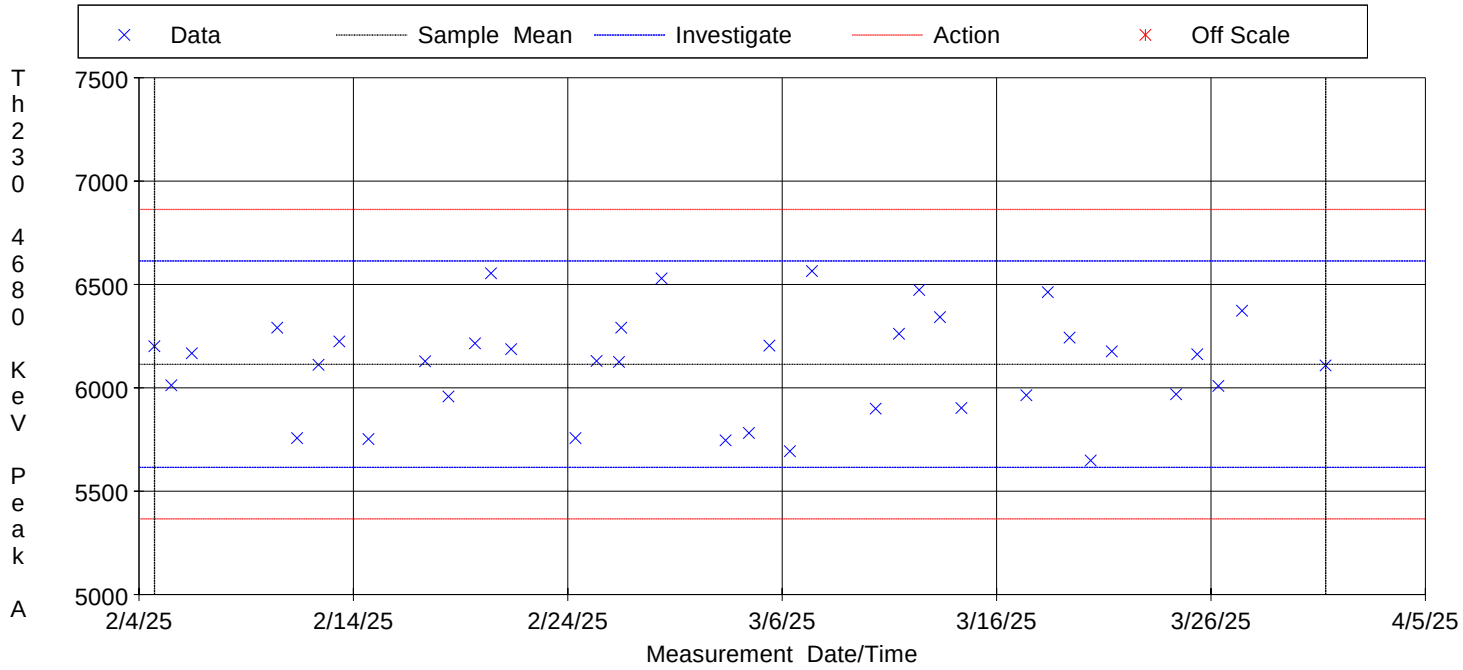
QA File: O:\alpha_sp\2025_QAF\4_April\32
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 5:04:38 PM
Sample End Date: 3/31/25 8:03:27 AM
Sample Mean: 6.11453E+03
Sample Std. Deviation: 2.49290E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 5:04:38 PM			6.20100E+03				
2/5/25 11:55:32 AM			6.01200E+03				
2/6/25 10:48:42 AM			6.16600E+03				
2/10/25 10:35:53 AM			6.29000E+03				
2/11/25 8:41:45 AM			5.75600E+03				
2/12/25 8:43:36 AM			6.11100E+03				
2/13/25 8:11:56 AM			6.22300E+03				
2/14/25 4:38:19 PM			5.75100E+03				
2/17/25 8:08:31 AM			6.12800E+03				
2/18/25 10:14:10 AM			5.95800E+03				
2/19/25 3:46:29 PM			6.21400E+03				
2/20/25 9:54:38 AM			6.55400E+03				
2/21/25 8:32:25 AM			6.18600E+03				
2/24/25 8:23:55 AM			5.75600E+03				
2/25/25 8:06:53 AM			6.13000E+03				
2/26/25 8:58:27 AM			6.12400E+03				
2/26/25 11:46:21 AM			6.29000E+03				
2/28/25 8:39:00 AM			6.52900E+03				
3/3/25 8:34:57 AM			5.74600E+03				
3/4/25 10:31:41 AM			5.78100E+03				
3/5/25 9:28:39 AM			6.20400E+03				
3/6/25 8:27:24 AM			5.69300E+03				
3/7/25 9:00:16 AM			6.56500E+03				
3/10/25 8:22:36 AM			5.89900E+03				
3/11/25 10:31:54 AM			6.26100E+03				
3/12/25 8:59:45 AM			6.47300E+03				
3/13/25 8:32:36 AM			6.34100E+03				
3/14/25 8:30:13 AM			5.90100E+03				
3/17/25 9:05:01 AM			5.96400E+03				
3/18/25 9:05:57 AM			6.46200E+03				
3/19/25 9:25:47 AM			6.24300E+03				
3/20/25 9:00:15 AM			5.64800E+03				
3/21/25 8:36:03 AM			6.17500E+03				
3/24/25 8:57:14 AM			5.96900E+03				
3/25/25 8:33:40 AM			6.16100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/26/25 8:00:40 AM			6.00800E+03				
3/27/25 10:30:52 AM			6.37200E+03				
3/31/25 8:03:27 AM			6.10700E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\32_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 5:04:38 PM - 3/31/25 8:03:27 AM
Sample Mean +/- Std Dev : 6114.526 +/- 2.49e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:47:19 AM

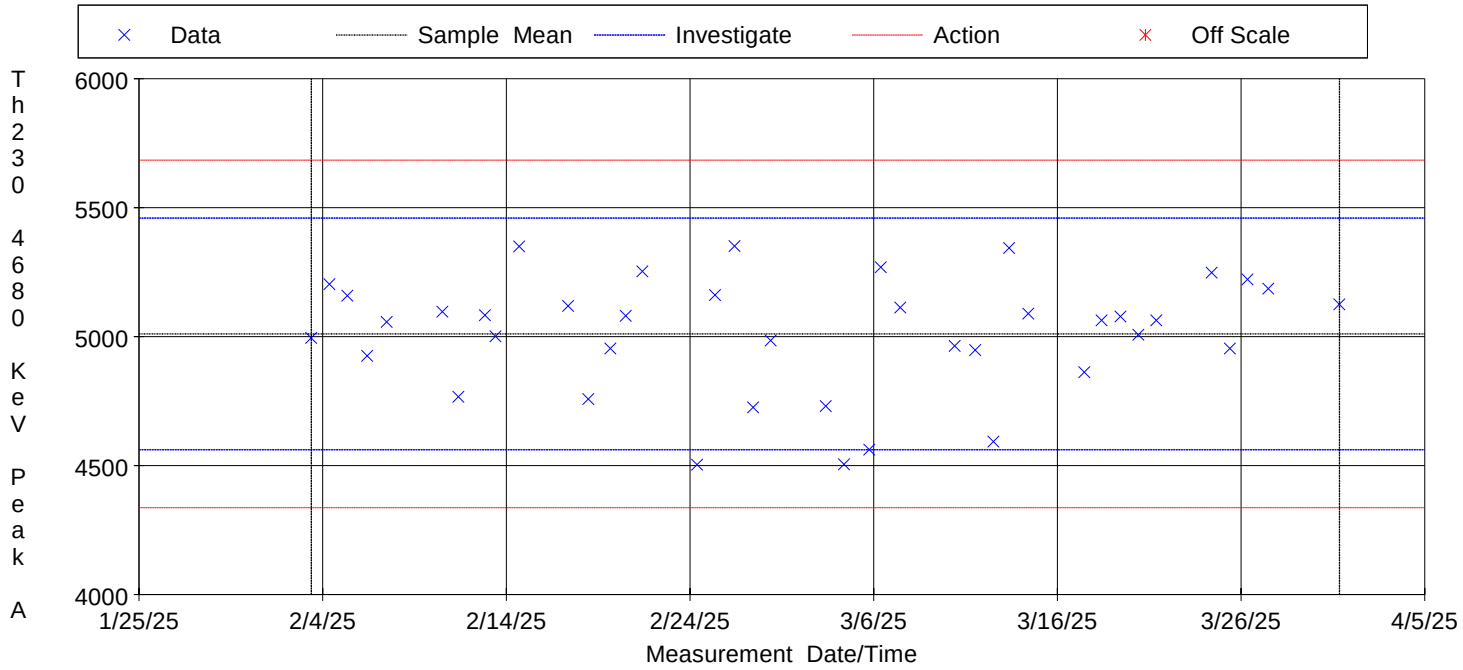
QA File: O:\alpha_sp\2025_QAF\4_April\33
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:40 AM
Sample End Date: 3/31/25 8:15:39 AM
Sample Mean: 5.01083E+03
Sample Std. Deviation: 2.24553E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:40 AM			4.99500E+03				
2/4/25 8:28:44 AM			5.20300E+03				
2/5/25 8:10:08 AM			5.15800E+03				
2/6/25 9:56:57 AM			4.92500E+03				
2/7/25 11:14:13 AM			5.05700E+03				
2/10/25 11:57:39 AM			5.09600E+03				
2/11/25 9:01:59 AM			4.76600E+03				
2/12/25 7:43:37 PM			5.08200E+03				
2/13/25 9:25:17 AM			5.00100E+03				
2/14/25 4:35:51 PM			5.34900E+03				
2/17/25 8:36:27 AM			5.11800E+03				
2/18/25 10:45:26 AM			4.75700E+03				
2/19/25 3:32:29 PM			4.95300E+03				
2/20/25 11:53:46 AM			5.08000E+03				
2/21/25 9:17:43 AM			5.25300E+03				
2/24/25 8:57:40 AM			4.50300E+03	In			
2/25/25 8:26:33 AM			5.16100E+03				
2/26/25 10:03:48 AM			5.35000E+03				
2/27/25 9:58:37 AM			4.72500E+03				
2/28/25 8:58:37 AM			4.98500E+03				
3/3/25 8:57:54 AM			4.73000E+03				
3/4/25 9:01:45 AM			4.50400E+03	In			
3/5/25 5:51:26 PM			4.56200E+03				
3/6/25 8:47:00 AM			5.26800E+03				
3/7/25 10:20:38 AM			5.11200E+03				
3/10/25 9:40:31 AM			4.96400E+03				
3/11/25 12:11:21 PM			4.94700E+03				
3/12/25 12:03:46 PM			4.59200E+03				
3/13/25 8:51:48 AM			5.34300E+03				
3/14/25 9:34:23 AM			5.08900E+03				
3/17/25 10:56:41 AM			4.86200E+03				
3/18/25 9:33:58 AM			5.06300E+03				
3/19/25 10:00:10 AM			5.07800E+03				
3/20/25 9:23:39 AM			5.00700E+03				
3/21/25 8:58:08 AM			5.06300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 9:21:32 AM			5.24800E+03				
3/25/25 9:03:48 AM			4.95300E+03				
3/26/25 8:19:18 AM			5.22100E+03				
3/27/25 11:22:24 AM			5.18500E+03				
3/31/25 8:15:39 AM			5.12500E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\33_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:40 AM - 3/31/25 8:15:39 AM
Sample Mean +/- Std Dev : 5010.825 +/- 2.25e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:48:43 AM

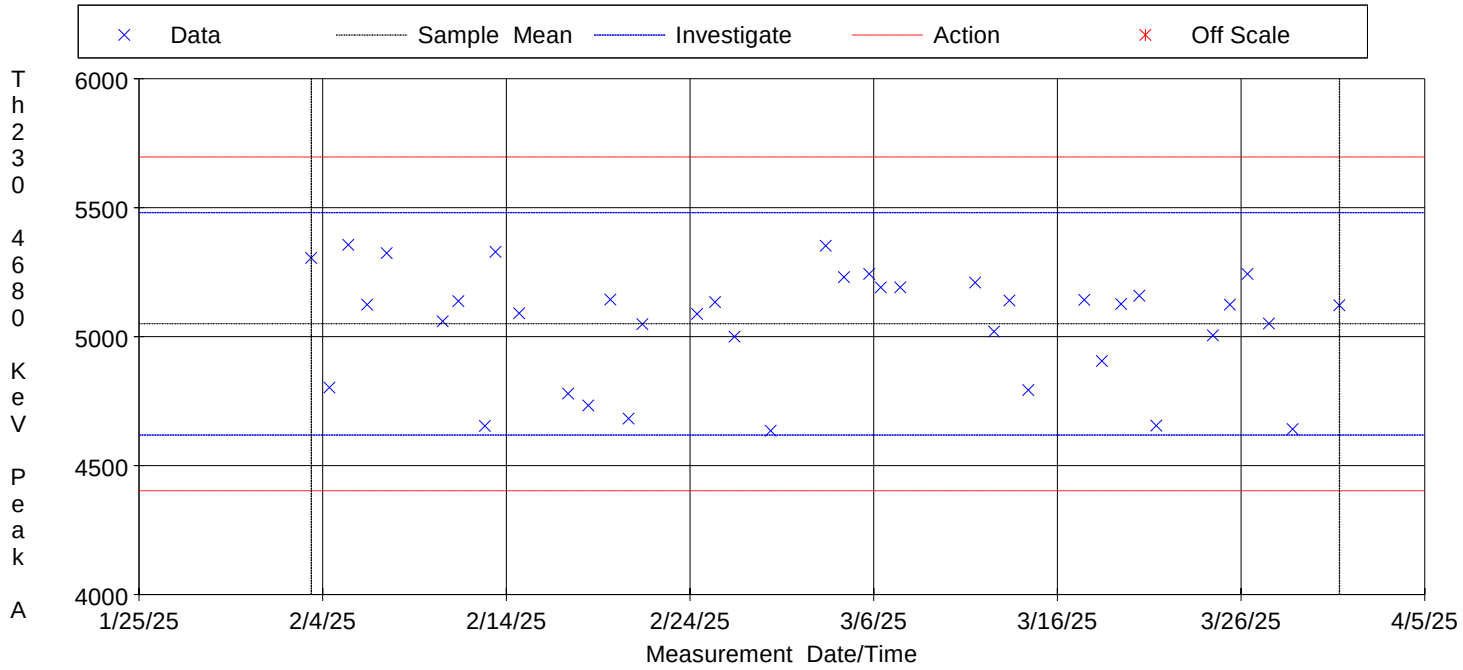
QA File: O:\alpha_sp\2025_QAF\4_April\34
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:41 AM
Sample End Date: 3/31/25 8:15:40 AM
Sample Mean: 5.04995E+03
Sample Std. Deviation: 2.15695E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:41 AM			5.30500E+03				
2/4/25 8:28:45 AM			4.80200E+03				
2/5/25 9:18:07 AM			5.35600E+03				
2/6/25 9:57:06 AM			5.12300E+03				
2/7/25 11:14:14 AM			5.32300E+03				
2/10/25 12:22:36 PM			5.05900E+03				
2/11/25 9:02:01 AM			5.13700E+03				
2/12/25 7:43:39 PM			4.65300E+03				
2/13/25 9:25:18 AM			5.32800E+03				
2/14/25 4:36:08 PM			5.09000E+03				
2/17/25 8:36:28 AM			4.77900E+03				
2/18/25 10:45:27 AM			4.73300E+03				
2/19/25 3:32:33 PM			5.14300E+03				
2/20/25 3:29:10 PM			4.68200E+03				
2/21/25 9:17:44 AM			5.04800E+03				
2/24/25 8:57:41 AM			5.08800E+03				
2/25/25 8:26:34 AM			5.13300E+03				
2/26/25 10:03:49 AM			4.99900E+03				
2/28/25 8:58:38 AM			4.63400E+03				
3/3/25 8:57:55 AM			5.35200E+03				
3/4/25 9:01:46 AM			5.23000E+03				
3/5/25 5:51:28 PM			5.24200E+03				
3/6/25 8:47:03 AM			5.19100E+03				
3/7/25 10:20:39 AM			5.19000E+03				
3/11/25 12:22:08 PM			5.20900E+03				
3/12/25 12:51:43 PM			5.01900E+03				
3/13/25 8:52:16 AM			5.14000E+03				
3/14/25 9:34:25 AM			4.79200E+03				
3/17/25 10:56:43 AM			5.14200E+03				
3/18/25 9:59:24 AM			4.90500E+03				
3/19/25 11:01:08 AM			5.12600E+03				
3/20/25 11:01:01 AM			5.15800E+03				
3/21/25 8:58:09 AM			4.65400E+03				
3/24/25 10:48:25 AM			5.00400E+03				
3/25/25 9:03:51 AM			5.12400E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/26/25 8:19:21 AM			5.24300E+03				
3/27/25 12:06:45 PM			5.05000E+03				
3/28/25 6:55:08 PM			4.64100E+03				
3/31/25 8:15:40 AM			5.12100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\34_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:41 AM - 3/31/25 8:15:40 AM
Sample Mean +/- Std Dev : 5049.949 +/- 2.16e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:50:35 AM

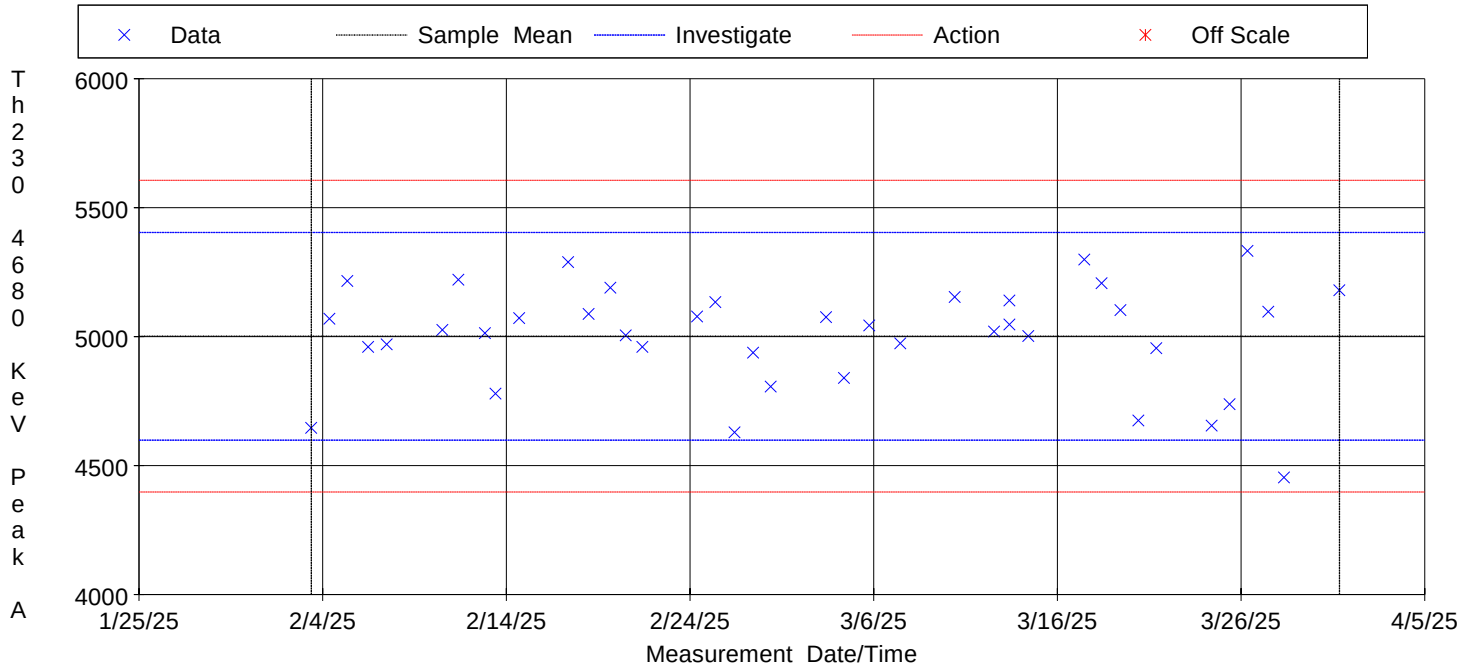
QA File: O:\alpha_sp\2025_QAF\4_April\35
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:42 AM
Sample End Date: 3/31/25 8:19:25 AM
Sample Mean: 5.00155E+03
Sample Std. Deviation: 2.01318E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:42 AM			4.64600E+03				
2/4/25 8:28:46 AM			5.06900E+03				
2/5/25 8:10:10 AM			5.21500E+03				
2/6/25 11:10:43 AM			4.96000E+03				
2/7/25 11:14:15 AM			4.97000E+03				
2/10/25 11:57:41 AM			5.02600E+03				
2/11/25 9:02:02 AM			5.22000E+03				
2/12/25 7:45:42 PM			5.01300E+03				
2/13/25 9:25:19 AM			4.77900E+03				
2/14/25 4:36:29 PM			5.07100E+03				
2/17/25 8:36:29 AM			5.28900E+03				
2/18/25 11:09:16 AM			5.08800E+03				
2/19/25 3:49:14 PM			5.18900E+03				
2/20/25 11:53:53 AM			5.00400E+03				
2/21/25 9:34:11 AM			4.96000E+03				
2/24/25 8:57:42 AM			5.07700E+03				
2/25/25 8:54:28 AM			5.13300E+03				
2/26/25 10:03:50 AM			4.62900E+03				
2/27/25 9:58:39 AM			4.93700E+03				
2/28/25 8:58:39 AM			4.80600E+03				
3/3/25 9:22:53 AM			5.07500E+03				
3/4/25 9:01:46 AM			4.83900E+03				
3/5/25 5:51:29 PM			5.04300E+03				
3/7/25 10:20:40 AM			4.97300E+03				
3/10/25 9:40:33 AM			5.15300E+03				
3/12/25 12:51:43 PM			5.01900E+03				
3/13/25 8:51:51 AM			5.04700E+03				
3/13/25 8:52:16 AM			5.14000E+03				
3/14/25 9:34:30 AM			5.00200E+03				
3/17/25 10:59:16 AM			5.29800E+03				
3/18/25 9:34:00 AM			5.20700E+03				
3/19/25 10:00:13 AM			5.10200E+03				
3/20/25 9:23:44 AM			4.67400E+03				
3/21/25 8:58:10 AM			4.95500E+03				
3/24/25 9:21:43 AM			4.65500E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:56:22 AM			4.73800E+03				
3/26/25 8:19:25 AM			5.33200E+03				
3/27/25 11:22:27 AM			5.09600E+03				
3/28/25 7:41:27 AM			4.45400E+03		In		
3/31/25 8:19:25 AM			5.17900E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\35_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:42 AM - 3/31/25 8:19:25 AM
Sample Mean +/- Std Dev : 5001.550 +/- 2.01e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:51:31 AM

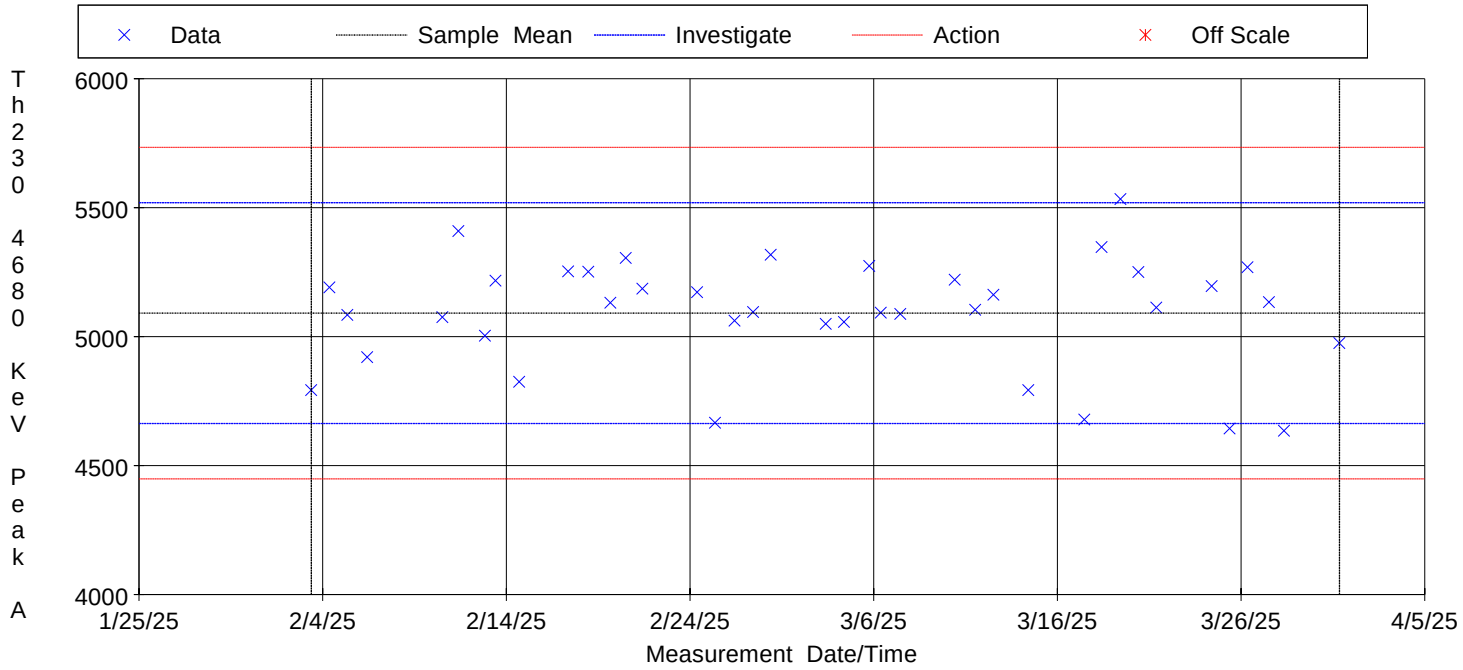
QA File: O:\alpha_sp\2025_QAF\4_April\36
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:43 AM
Sample End Date: 3/31/25 8:19:26 AM
Sample Mean: 5.09105E+03
Sample Std. Deviation: 2.14105E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:43 AM			4.79200E+03				
2/4/25 8:28:47 AM			5.19000E+03				
2/5/25 8:10:11 AM			5.08400E+03				
2/6/25 9:57:10 AM			4.92000E+03				
2/10/25 11:57:42 AM			5.07500E+03				
2/11/25 9:02:03 AM			5.40900E+03				
2/12/25 7:43:42 PM			5.00300E+03				
2/13/25 9:25:20 AM			5.21600E+03				
2/14/25 4:36:50 PM			4.82500E+03				
2/17/25 8:36:31 AM			5.25200E+03				
2/18/25 10:45:29 AM			5.25100E+03				
2/19/25 3:49:16 PM			5.13100E+03				
2/20/25 11:56:46 AM			5.30400E+03				
2/21/25 9:17:46 AM			5.18500E+03				
2/24/25 8:57:43 AM			5.17200E+03				
2/25/25 8:26:37 AM			4.66600E+03				
2/26/25 10:03:51 AM			5.06100E+03				
2/27/25 9:58:40 AM			5.09500E+03				
2/28/25 8:58:41 AM			5.31700E+03				
3/3/25 8:57:57 AM			5.04900E+03				
3/4/25 9:01:48 AM			5.05600E+03				
3/5/25 5:51:31 PM			5.27300E+03				
3/6/25 8:47:05 AM			5.09200E+03				
3/7/25 10:20:41 AM			5.08800E+03				
3/10/25 9:40:34 AM			5.22000E+03				
3/11/25 12:11:24 PM			5.10300E+03				
3/12/25 12:03:49 PM			5.16200E+03				
3/14/25 9:34:25 AM			4.79200E+03				
3/17/25 10:59:19 AM			4.67800E+03				
3/18/25 9:34:01 AM			5.34700E+03				
3/19/25 10:00:14 AM			5.53300E+03		In		
3/20/25 9:23:46 AM			5.25000E+03				
3/21/25 8:58:11 AM			5.11200E+03				
3/24/25 9:21:46 AM			5.19500E+03				
3/25/25 8:56:23 AM			4.64300E+03		In		

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/26/25 8:19:27 AM			5.26800E+03				
3/27/25 12:06:57 PM			5.13300E+03				
3/28/25 7:41:30 AM			4.63400E+03	In			
3/31/25 8:19:26 AM			4.97500E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\36_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:43 AM - 3/31/25 8:19:26 AM
Sample Mean +/- Std Dev : 5091.051 +/- 2.14e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:52:39 AM

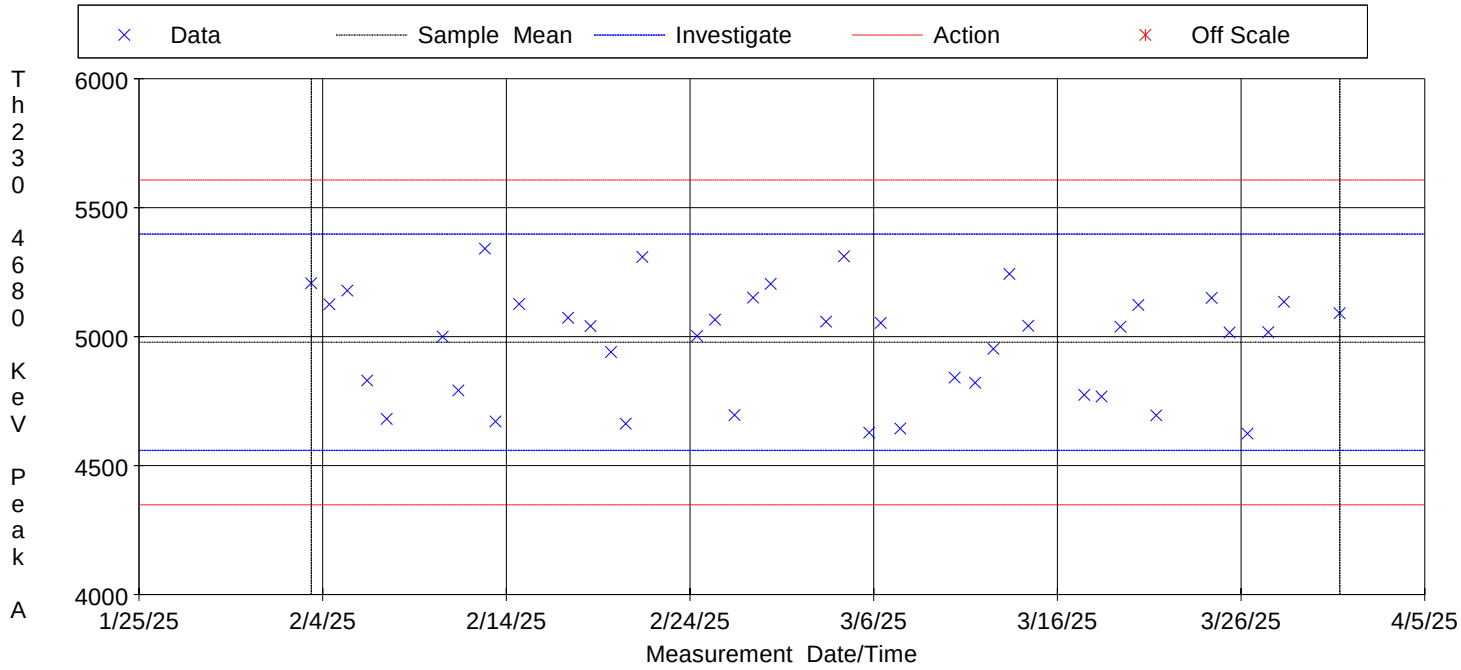
QA File: O:\alpha_sp\2025_QAF\4_April\37
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:44 AM
Sample End Date: 3/31/25 8:26:12 AM
Sample Mean: 4.97805E+03
Sample Std. Deviation: 2.09856E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:44 AM			5.20600E+03				
2/4/25 8:28:47 AM			5.12500E+03				
2/5/25 8:10:12 AM			5.17800E+03				
2/6/25 9:57:11 AM			4.82900E+03				
2/7/25 11:27:19 AM			4.68100E+03				
2/10/25 12:23:02 PM			4.99900E+03				
2/11/25 9:02:04 AM			4.79100E+03				
2/12/25 7:43:43 PM			5.34000E+03				
2/13/25 9:25:21 AM			4.67100E+03				
2/14/25 4:37:17 PM			5.12600E+03				
2/17/25 8:36:32 AM			5.07200E+03				
2/18/25 1:45:04 PM			5.04000E+03				
2/19/25 4:30:04 PM			4.94000E+03				
2/20/25 11:56:50 AM			4.66200E+03				
2/21/25 9:17:47 AM			5.30800E+03				
2/24/25 8:57:44 AM			5.00200E+03				
2/25/25 8:26:38 AM			5.06500E+03				
2/26/25 10:03:52 AM			4.69600E+03				
2/27/25 9:58:41 AM			5.15100E+03				
2/28/25 8:58:42 AM			5.20400E+03				
3/3/25 9:26:02 AM			5.05800E+03				
3/4/25 9:01:48 AM			5.31100E+03				
3/5/25 5:51:32 PM			4.62700E+03				
3/6/25 8:47:06 AM			5.05300E+03				
3/7/25 10:20:42 AM			4.64300E+03				
3/10/25 9:40:35 AM			4.84000E+03				
3/11/25 12:11:25 PM			4.82100E+03				
3/12/25 12:03:51 PM			4.95200E+03				
3/13/25 8:51:53 AM			5.24300E+03				
3/14/25 9:34:32 AM			5.04100E+03				
3/17/25 10:56:47 AM			4.77300E+03				
3/18/25 9:34:02 AM			4.76700E+03				
3/19/25 10:00:15 AM			5.03800E+03				
3/20/25 9:23:47 AM			5.12200E+03				
3/21/25 8:58:13 AM			4.69400E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 9:21:48 AM			5.15000E+03				
3/25/25 8:56:24 AM			5.01500E+03				
3/26/25 8:19:28 AM			4.62400E+03				
3/27/25 11:22:31 AM			5.01700E+03				
3/28/25 7:55:26 AM			5.13500E+03				
3/31/25 8:26:12 AM			5.09000E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\37_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:44 AM - 3/31/25 8:26:12 AM
Sample Mean +/- Std Dev : 4978.049 +/- 2.10e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:53:36 AM

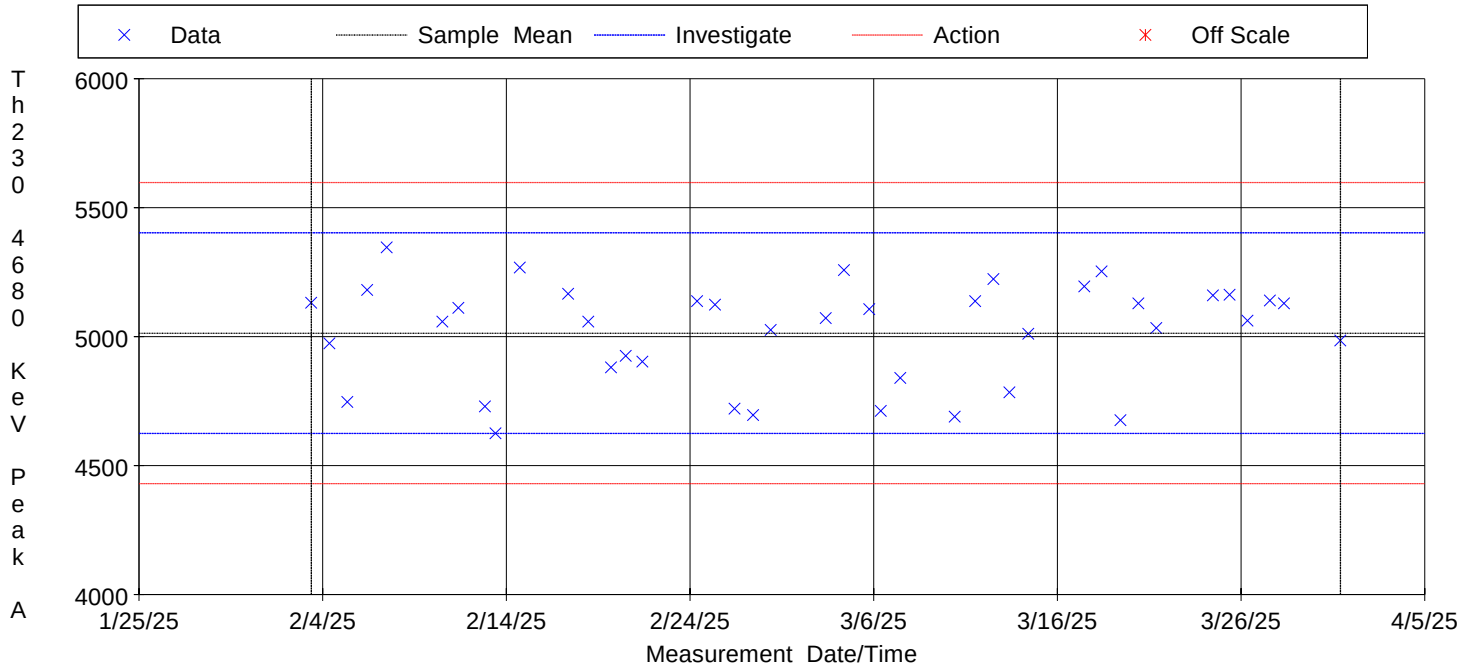
QA File: O:\alpha_sp\2025_QAF\4_April\38
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:45 AM
Sample End Date: 3/31/25 9:21:20 AM
Sample Mean: 5.01332E+03
Sample Std. Deviation: 1.94578E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:45 AM			5.13100E+03				
2/4/25 8:28:48 AM			4.97300E+03				
2/5/25 8:10:13 AM			4.74600E+03				
2/6/25 9:57:13 AM			5.18100E+03				
2/7/25 11:14:18 AM			5.34500E+03				
2/10/25 11:57:44 AM			5.05800E+03				
2/11/25 9:02:05 AM			5.11100E+03				
2/12/25 7:43:44 PM			4.72900E+03				
2/13/25 9:25:22 AM			4.62500E+03				
2/14/25 5:10:22 PM			5.26700E+03				
2/17/25 8:36:33 AM			5.16600E+03				
2/18/25 10:45:31 AM			5.05800E+03				
2/19/25 4:30:06 PM			4.88000E+03				
2/20/25 11:56:56 AM			4.92500E+03				
2/21/25 9:17:48 AM			4.90200E+03				
2/24/25 8:57:45 AM			5.13700E+03				
2/25/25 8:26:38 AM			5.12400E+03				
2/26/25 10:03:53 AM			4.72000E+03				
2/27/25 9:58:42 AM			4.69500E+03				
2/28/25 8:58:43 AM			5.02500E+03				
3/3/25 8:57:59 AM			5.07100E+03				
3/4/25 9:01:49 AM			5.25800E+03				
3/5/25 5:51:34 PM			5.10600E+03				
3/6/25 8:47:08 AM			4.71100E+03				
3/7/25 10:20:44 AM			4.83900E+03				
3/10/25 9:40:36 AM			4.68900E+03				
3/11/25 12:11:26 PM			5.13700E+03				
3/12/25 12:03:52 PM			5.22300E+03				
3/13/25 8:51:54 AM			4.78400E+03				
3/14/25 9:34:33 AM			5.01100E+03				
3/17/25 10:56:48 AM			5.19400E+03				
3/18/25 9:34:04 AM			5.25200E+03				
3/19/25 10:00:16 AM			4.67600E+03				
3/20/25 9:23:48 AM			5.12900E+03				
3/21/25 8:58:14 AM			5.03300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:48:30 AM			5.15900E+03				
3/25/25 8:56:26 AM			5.16200E+03				
3/26/25 8:19:29 AM			5.06200E+03				
3/27/25 1:19:07 PM			5.13900E+03				
3/28/25 7:55:24 AM			5.12900E+03				
3/31/25 9:21:20 AM			4.98400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\38_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:45 AM - 3/31/25 9:21:20 AM
Sample Mean +/- Std Dev : 5013.317 +/- 1.95e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:54:30 AM

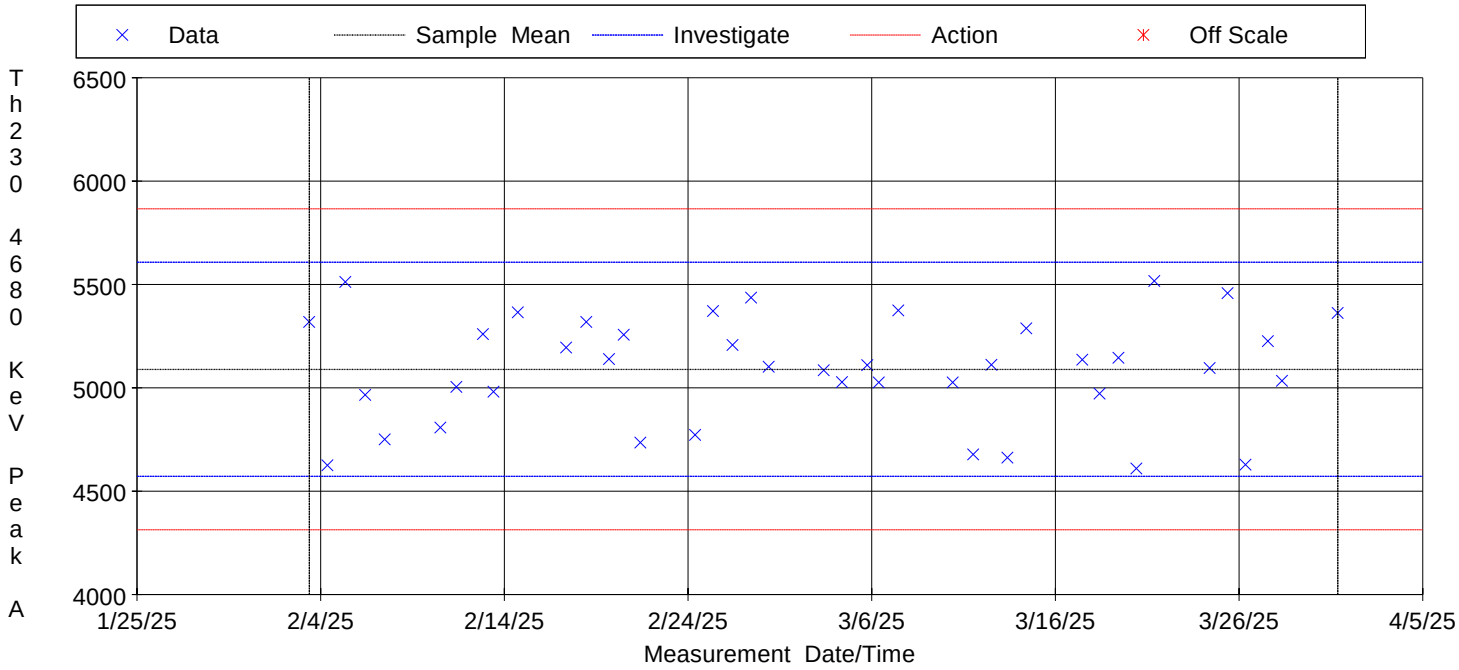
QA File: O:\alpha_sp\2025_QAF\4_April\39
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:46 AM
Sample End Date: 3/31/25 8:26:14 AM
Sample Mean: 5.08956E+03
Sample Std. Deviation: 2.58679E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:46 AM			5.31800E+03				
2/4/25 8:28:50 AM			4.62400E+03				
2/5/25 8:10:14 AM			5.51100E+03				
2/6/25 9:57:15 AM			4.96500E+03				
2/7/25 11:14:19 AM			4.75000E+03				
2/10/25 11:57:44 AM			4.80800E+03				
2/11/25 9:02:06 AM			5.00400E+03				
2/12/25 7:43:46 PM			5.26000E+03				
2/13/25 9:25:23 AM			4.98000E+03				
2/14/25 5:10:24 PM			5.36500E+03				
2/17/25 8:36:33 AM			5.19500E+03				
2/18/25 10:45:33 AM			5.31800E+03				
2/19/25 4:30:08 PM			5.13900E+03				
2/20/25 11:57:00 AM			5.25600E+03				
2/21/25 9:17:49 AM			4.73500E+03				
2/24/25 8:57:46 AM			4.77100E+03				
2/25/25 8:26:39 AM			5.37000E+03				
2/26/25 10:03:54 AM			5.20700E+03				
2/27/25 9:58:43 AM			5.43500E+03				
2/28/25 8:58:44 AM			5.10200E+03				
3/3/25 8:58:00 AM			5.08400E+03				
3/4/25 9:01:50 AM			5.02700E+03				
3/5/25 5:51:35 PM			5.10900E+03				
3/6/25 8:47:09 AM			5.02500E+03				
3/7/25 10:20:45 AM			5.37400E+03				
3/10/25 9:40:45 AM			5.02500E+03				
3/11/25 12:11:27 PM			4.67700E+03				
3/12/25 12:03:53 PM			5.11100E+03				
3/13/25 8:51:55 AM			4.66200E+03				
3/14/25 9:34:34 AM			5.28700E+03				
3/17/25 10:56:48 AM			5.13600E+03				
3/18/25 9:34:05 AM			4.97100E+03				
3/19/25 10:00:17 AM			5.14400E+03				
3/20/25 9:23:50 AM			4.60900E+03				
3/21/25 8:58:15 AM			5.51700E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 9:21:50 AM			5.09500E+03				
3/25/25 8:56:27 AM			5.45800E+03				
3/26/25 8:19:31 AM			4.62800E+03				
3/27/25 1:19:10 PM			5.22600E+03				
3/28/25 7:55:22 AM			5.03300E+03				
3/31/25 8:26:14 AM			5.36100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\39_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:46 AM - 3/31/25 8:26:14 AM
Sample Mean +/- Std Dev : 5089.561 +/- 2.59e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:55:30 AM

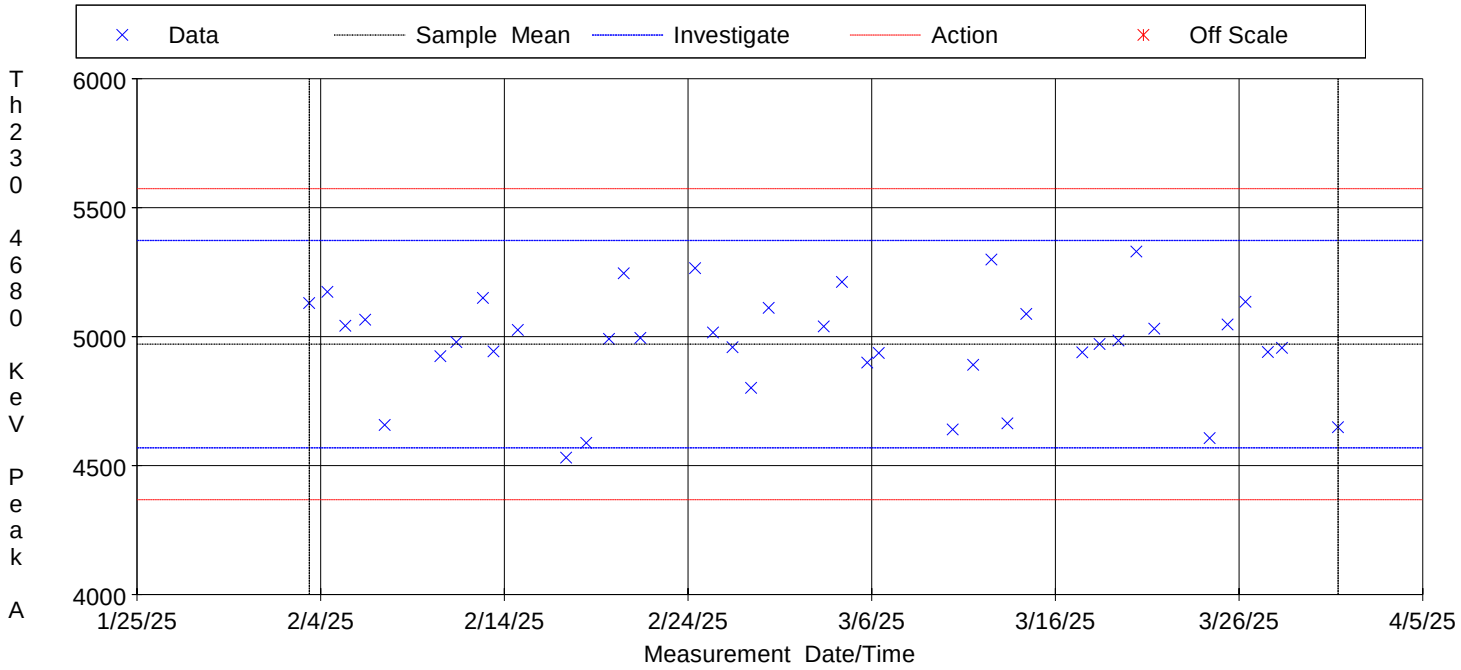
QA File: O:\alpha_sp\2025_QAF\4_April\40
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:47 AM
Sample End Date: 3/31/25 8:47:19 AM
Sample Mean: 4.97088E+03
Sample Std. Deviation: 2.01082E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:47 AM			5.13000E+03				
2/4/25 8:28:51 AM			5.17300E+03				
2/5/25 8:10:16 AM			5.04200E+03				
2/6/25 9:57:16 AM			5.06500E+03				
2/7/25 11:14:20 AM			4.65700E+03				
2/10/25 11:57:46 AM			4.92400E+03				
2/11/25 9:02:07 AM			4.97800E+03				
2/12/25 7:43:47 PM			5.15000E+03				
2/13/25 9:25:24 AM			4.94200E+03				
2/14/25 5:10:26 PM			5.02600E+03				
2/17/25 8:36:34 AM			4.53100E+03		In		
2/18/25 10:45:34 AM			4.58700E+03				
2/19/25 4:30:10 PM			4.99100E+03				
2/20/25 11:57:04 AM			5.24500E+03				
2/21/25 9:17:50 AM			4.99500E+03				
2/24/25 8:57:47 AM			5.26500E+03				
2/25/25 8:26:40 AM			5.01500E+03				
2/26/25 10:03:55 AM			4.95900E+03				
2/27/25 9:58:44 AM			4.80100E+03				
2/28/25 8:58:45 AM			5.11100E+03				
3/3/25 8:58:01 AM			5.03900E+03				
3/4/25 9:01:51 AM			5.21200E+03				
3/5/25 5:51:36 PM			4.89900E+03				
3/6/25 8:47:11 AM			4.93600E+03				
3/10/25 9:40:47 AM			4.63900E+03				
3/11/25 12:11:29 PM			4.89000E+03				
3/12/25 12:03:54 PM			5.29900E+03				
3/13/25 8:51:56 AM			4.66300E+03				
3/14/25 9:34:35 AM			5.08700E+03				
3/17/25 10:56:49 AM			4.93800E+03				
3/18/25 9:34:06 AM			4.97100E+03				
3/19/25 10:00:18 AM			4.98400E+03				
3/20/25 9:23:51 AM			5.32900E+03				
3/21/25 8:58:16 AM			5.03100E+03				
3/24/25 9:21:51 AM			4.60600E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:56:28 AM			5.04600E+03				
3/26/25 8:19:32 AM			5.13500E+03				
3/27/25 1:19:15 PM			4.94000E+03				
3/28/25 7:55:19 AM			4.95600E+03				
3/31/25 8:47:19 AM			4.64800E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\40_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:47 AM - 3/31/25 8:47:19 AM
Sample Mean +/- Std Dev : 4970.875 +/- 2.01e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:56:21 AM

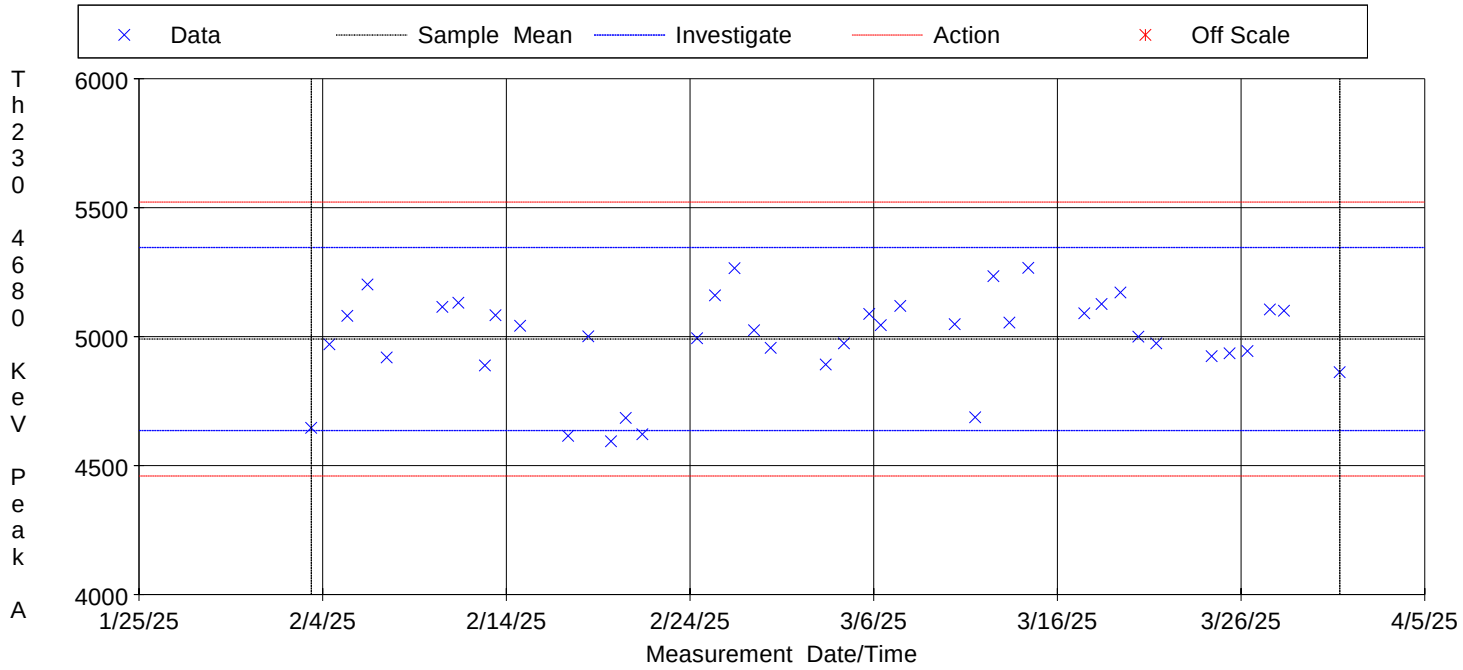
QA File: O:\alpha_sp\2025_QAF\4_April\41
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:48 AM
Sample End Date: 3/31/25 8:26:28 AM
Sample Mean: 4.99071E+03
Sample Std. Deviation: 1.77116E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:48 AM			4.64600E+03				
2/4/25 8:28:52 AM			4.96900E+03				
2/5/25 8:10:17 AM			5.08000E+03				
2/6/25 10:24:08 AM			5.20200E+03				
2/7/25 11:14:21 AM			4.91900E+03				
2/10/25 11:57:47 AM			5.11500E+03				
2/11/25 9:02:08 AM			5.13100E+03				
2/12/25 7:43:49 PM			4.88800E+03				
2/13/25 9:25:24 AM			5.08300E+03				
2/14/25 5:43:26 PM			5.04100E+03				
2/17/25 8:36:35 AM			4.61500E+03		In		
2/18/25 10:45:35 AM			5.00100E+03				
2/19/25 4:30:11 PM			4.59400E+03		In		
2/20/25 11:57:08 AM			4.68400E+03				
2/21/25 9:17:51 AM			4.62100E+03		In		
2/24/25 8:57:48 AM			4.99300E+03				
2/25/25 8:26:41 AM			5.16000E+03				
2/26/25 10:03:56 AM			5.26500E+03				
2/27/25 11:26:41 AM			5.02400E+03				
2/28/25 8:58:46 AM			4.95600E+03				
3/3/25 8:58:02 AM			4.89200E+03				
3/4/25 9:01:52 AM			4.97300E+03				
3/5/25 5:51:38 PM			5.08800E+03				
3/6/25 8:47:12 AM			5.04400E+03				
3/7/25 10:20:46 AM			5.11900E+03				
3/10/25 9:40:48 AM			5.04800E+03				
3/11/25 12:11:29 PM			4.68700E+03				
3/12/25 12:03:55 PM			5.23400E+03				
3/13/25 8:51:58 AM			5.05400E+03				
3/14/25 9:34:36 AM			5.26600E+03				
3/17/25 10:56:50 AM			5.09000E+03				
3/18/25 9:34:07 AM			5.12600E+03				
3/19/25 10:00:19 AM			5.17000E+03				
3/20/25 9:23:52 AM			4.99900E+03				
3/21/25 8:58:17 AM			4.97300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 9:21:52 AM			4.92400E+03				
3/25/25 8:56:30 AM			4.93500E+03				
3/26/25 8:19:33 AM			4.94300E+03				
3/27/25 1:19:18 PM			5.10500E+03				
3/28/25 7:55:17 AM			5.10000E+03				
3/31/25 8:26:28 AM			4.86200E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\41_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:48 AM - 3/31/25 8:26:28 AM
Sample Mean +/- Std Dev : 4990.708 +/- 1.77e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:57:20 AM

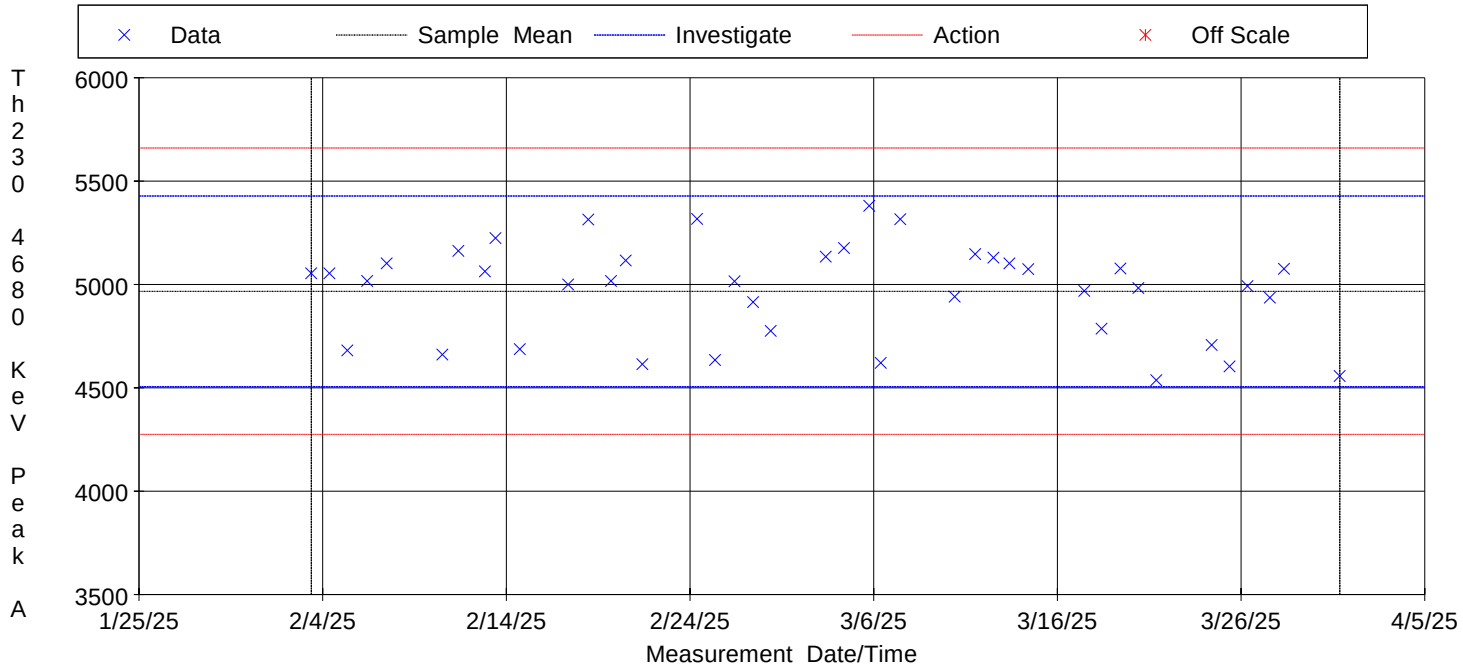
QA File: O:\alpha_sp\2025_QAF\4_April\42
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:49 AM
Sample End Date: 3/31/25 8:26:19 AM
Sample Mean: 4.96693E+03
Sample Std. Deviation: 2.30922E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:49 AM			5.05300E+03				
2/4/25 8:28:53 AM			5.05300E+03				
2/5/25 8:10:18 AM			4.68000E+03				
2/6/25 9:57:19 AM			5.01700E+03				
2/7/25 11:14:22 AM			5.10100E+03				
2/10/25 11:57:48 AM			4.66000E+03				
2/11/25 9:02:10 AM			5.16100E+03				
2/12/25 7:43:50 PM			5.06300E+03				
2/13/25 9:25:26 AM			5.22300E+03				
2/14/25 5:10:29 PM			4.68700E+03				
2/17/25 8:36:36 AM			4.99900E+03				
2/18/25 10:45:36 AM			5.31300E+03				
2/19/25 4:30:13 PM			5.01700E+03				
2/20/25 11:57:10 AM			5.11600E+03				
2/21/25 9:17:53 AM			4.61400E+03				
2/24/25 8:57:49 AM			5.31600E+03				
2/25/25 8:26:43 AM			4.63400E+03				
2/26/25 10:03:57 AM			5.01400E+03				
2/27/25 9:58:46 AM			4.91400E+03				
2/28/25 8:58:48 AM			4.77400E+03				
3/3/25 8:58:03 AM			5.13400E+03				
3/4/25 9:01:53 AM			5.17600E+03				
3/5/25 5:51:40 PM			5.38000E+03				
3/6/25 8:47:13 AM			4.62000E+03				
3/7/25 10:20:47 AM			5.31500E+03				
3/10/25 9:40:49 AM			4.94100E+03				
3/11/25 12:11:30 PM			5.14600E+03				
3/12/25 12:03:56 PM			5.13000E+03				
3/13/25 8:51:58 AM			5.10200E+03				
3/14/25 9:34:37 AM			5.07400E+03				
3/17/25 10:56:51 AM			4.96800E+03				
3/18/25 9:34:08 AM			4.78600E+03				
3/19/25 10:00:20 AM			5.07700E+03				
3/20/25 9:23:53 AM			4.98200E+03				
3/21/25 8:58:18 AM			4.53700E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 9:21:53 AM			4.70600E+03				
3/25/25 8:56:31 AM			4.60300E+03				
3/26/25 8:19:34 AM			4.99100E+03				
3/27/25 1:19:24 PM			4.93600E+03				
3/28/25 7:59:49 AM			5.07500E+03				
3/31/25 8:26:19 AM			4.55600E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\42_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:49 AM - 3/31/25 8:26:19 AM
Sample Mean +/- Std Dev : 4966.927 +/- 2.31e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:58:12 AM

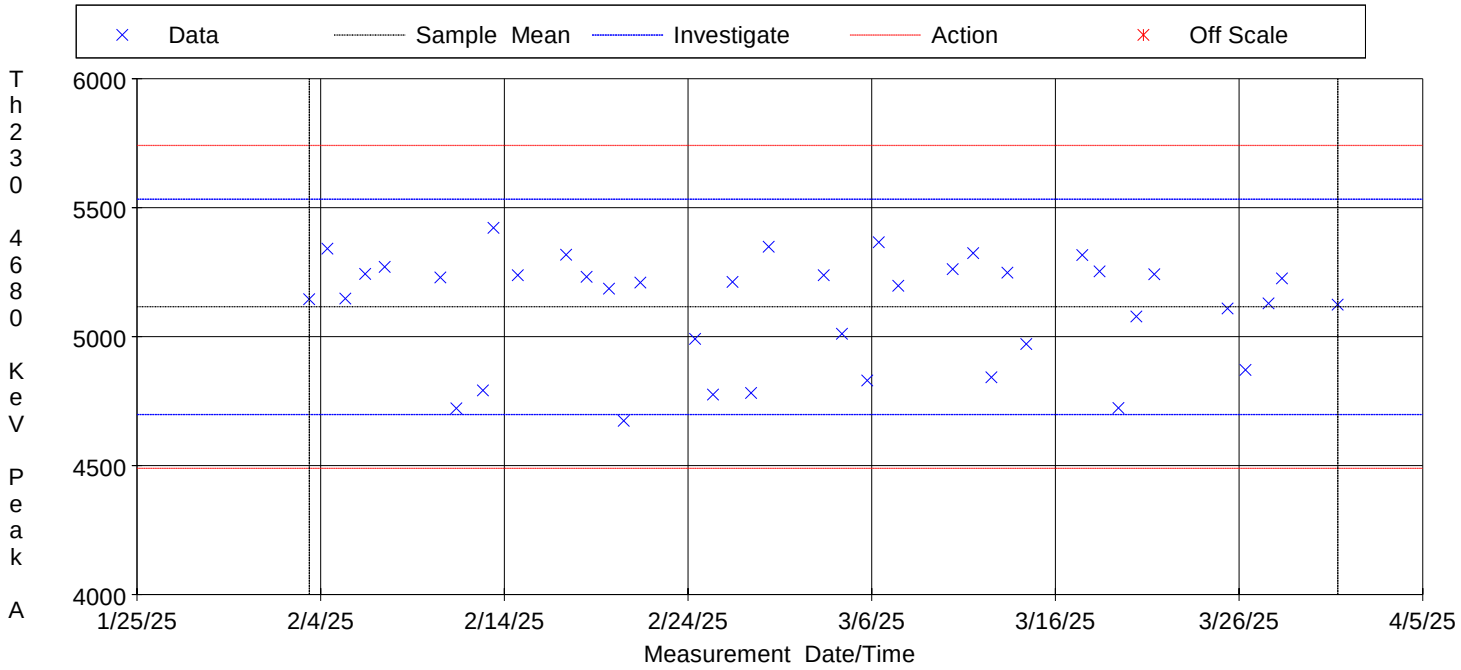
QA File: O:\alpha_sp\2025_QAF\4_April\43
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:50 AM
Sample End Date: 3/31/25 8:42:25 AM
Sample Mean: 5.11542E+03
Sample Std. Deviation: 2.08814E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:50 AM			5.14400E+03				
2/4/25 8:28:54 AM			5.34000E+03				
2/5/25 8:10:19 AM			5.14700E+03				
2/6/25 9:57:21 AM			5.24200E+03				
2/7/25 11:14:23 AM			5.27000E+03				
2/10/25 11:57:49 AM			5.22900E+03				
2/11/25 9:02:11 AM			4.72200E+03				
2/12/25 7:43:52 PM			4.79100E+03				
2/13/25 9:25:27 AM			5.42100E+03				
2/14/25 5:10:31 PM			5.23700E+03				
2/17/25 8:36:37 AM			5.31700E+03				
2/18/25 11:11:46 AM			5.23100E+03				
2/19/25 4:30:14 PM			5.18600E+03				
2/20/25 11:57:14 AM			4.67300E+03		In		
2/21/25 9:17:54 AM			5.20900E+03				
2/24/25 8:57:50 AM			4.99100E+03				
2/25/25 8:26:43 AM			4.77500E+03				
2/26/25 10:03:58 AM			5.21100E+03				
2/27/25 9:58:47 AM			4.78100E+03				
2/28/25 8:58:49 AM			5.34800E+03				
3/3/25 8:58:04 AM			5.23800E+03				
3/4/25 9:01:55 AM			5.01000E+03				
3/5/25 5:51:41 PM			4.83000E+03				
3/6/25 8:47:14 AM			5.36600E+03				
3/7/25 10:20:48 AM			5.19700E+03				
3/10/25 9:40:50 AM			5.26100E+03				
3/11/25 12:11:31 PM			5.32300E+03				
3/12/25 12:03:57 PM			4.84200E+03				
3/13/25 8:51:59 AM			5.24800E+03				
3/14/25 9:34:38 AM			4.97100E+03				
3/17/25 10:56:52 AM			5.31600E+03				
3/18/25 9:34:09 AM			5.25300E+03				
3/19/25 10:00:21 AM			4.72300E+03				
3/20/25 9:23:54 AM			5.07800E+03				
3/21/25 8:58:19 AM			5.24100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 8:56:32 AM			5.10800E+03				
3/26/25 8:19:35 AM			4.87000E+03				
3/27/25 2:21:17 PM			5.12800E+03				
3/28/25 7:59:51 AM			5.22500E+03				
3/31/25 8:42:25 AM			5.12400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\43_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:50 AM - 3/31/25 8:42:25 AM
Sample Mean +/- Std Dev : 5115.425 +/- 2.09e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 10:59:08 AM

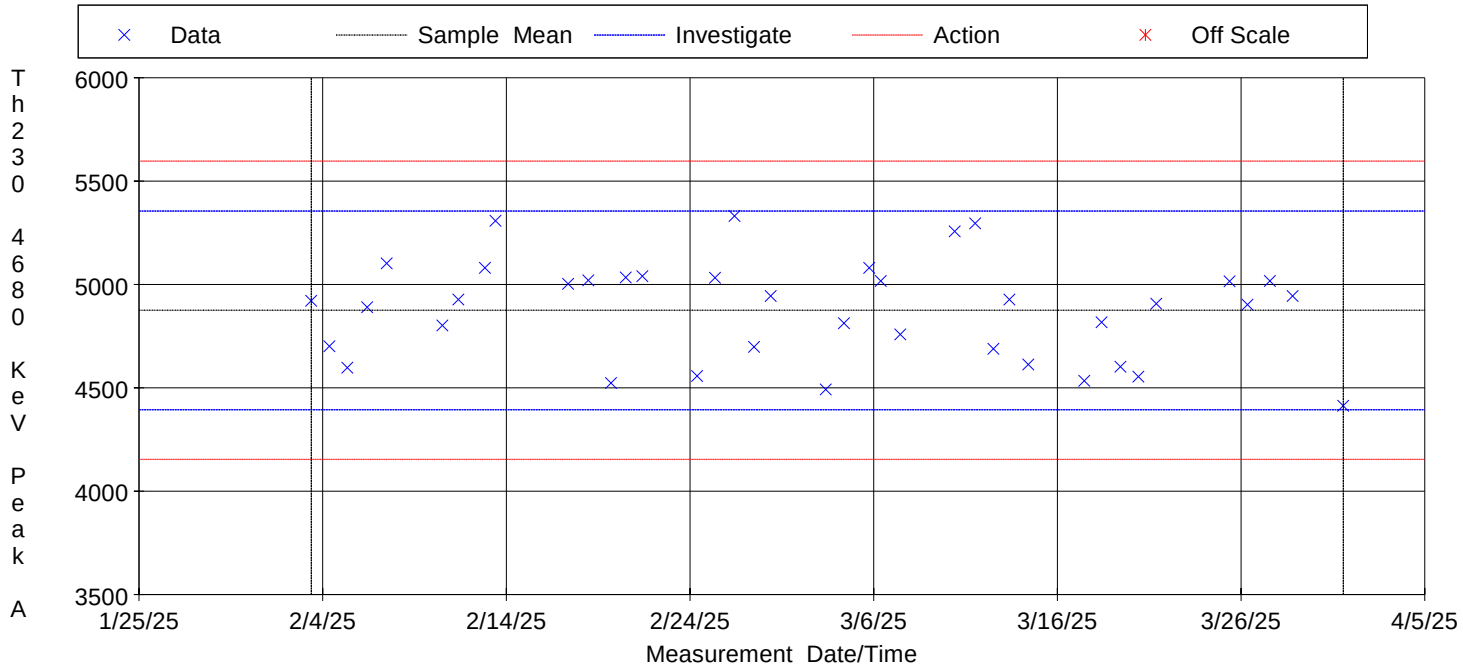
QA File: O:\alpha_sp\2025_QAF\4_April\44
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 8:49:51 AM
Sample End Date: 3/31/25 1:00:36 PM
Sample Mean: 4.87526E+03
Sample Std. Deviation: 2.40260E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 8:49:51 AM			4.92000E+03				
2/4/25 8:28:55 AM			4.70100E+03				
2/5/25 8:10:20 AM			4.59700E+03				
2/6/25 9:57:22 AM			4.88900E+03				
2/7/25 11:14:24 AM			5.10100E+03				
2/10/25 11:57:50 AM			4.80100E+03				
2/11/25 9:02:12 AM			4.92600E+03				
2/12/25 7:43:53 PM			5.07900E+03				
2/13/25 9:25:29 AM			5.30800E+03				
2/17/25 8:36:38 AM			5.00300E+03				
2/18/25 10:45:38 AM			5.02000E+03				
2/19/25 4:30:16 PM			4.52300E+03				
2/20/25 11:57:19 AM			5.03300E+03				
2/21/25 9:17:55 AM			5.03900E+03				
2/24/25 8:57:51 AM			4.55700E+03				
2/25/25 8:26:44 AM			5.03200E+03				
2/26/25 10:03:59 AM			5.33100E+03				
2/27/25 11:26:38 AM			4.69800E+03				
2/28/25 8:58:50 AM			4.94300E+03				
3/3/25 8:58:05 AM			4.49200E+03				
3/4/25 9:01:56 AM			4.81200E+03				
3/5/25 5:51:43 PM			5.07900E+03				
3/6/25 8:47:15 AM			5.01700E+03				
3/7/25 10:20:49 AM			4.75700E+03				
3/10/25 9:40:51 AM			5.25600E+03				
3/11/25 12:11:33 PM			5.29500E+03				
3/12/25 12:03:58 PM			4.68800E+03				
3/13/25 8:52:00 AM			4.92700E+03				
3/14/25 9:34:39 AM			4.61300E+03				
3/17/25 10:56:53 AM			4.53300E+03				
3/18/25 9:34:10 AM			4.81700E+03				
3/19/25 10:00:22 AM			4.60200E+03				
3/20/25 9:23:56 AM			4.55300E+03				
3/21/25 8:58:21 AM			4.90700E+03				
3/25/25 8:56:33 AM			5.01400E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/26/25 8:19:36 AM			4.90100E+03				
3/27/25 1:25:41 PM			5.01600E+03				
3/28/25 6:55:11 PM			4.94300E+03				
3/31/25 1:00:36 PM			4.41200E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\44_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 8:49:51 AM - 3/31/25 1:00:36 PM
Sample Mean +/- Std Dev : 4875.256 +/- 2.40e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:00:59 AM

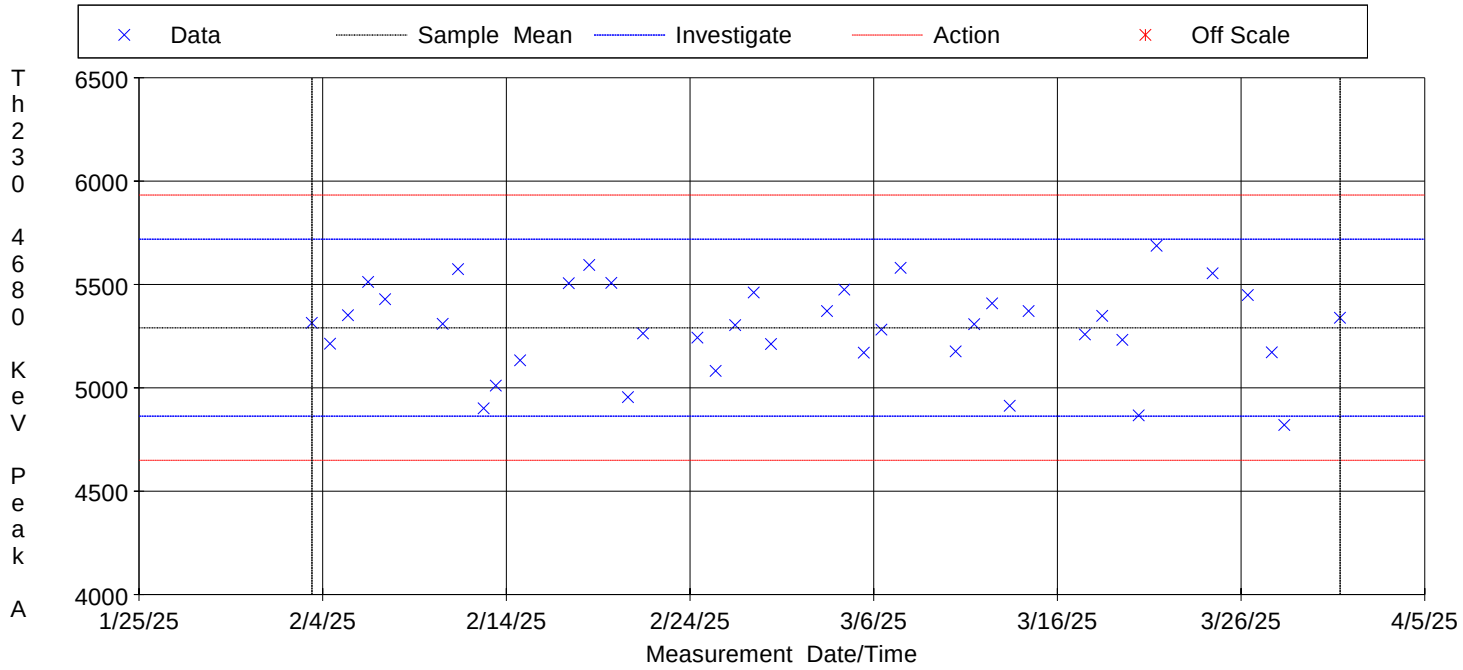
QA File: O:\alpha_sp\2025_QAF\4_April\51
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:44:17 AM
Sample End Date: 3/31/25 8:52:26 AM
Sample Mean: 5.29073E+03
Sample Std. Deviation: 2.13978E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:44:17 AM			5.31400E+03				
2/4/25 9:18:19 AM			5.21300E+03				
2/5/25 8:54:55 AM			5.35000E+03				
2/6/25 11:02:43 AM			5.51200E+03				
2/7/25 9:26:43 AM			5.42800E+03				
2/10/25 12:27:15 PM			5.30900E+03				
2/11/25 8:41:05 AM			5.57300E+03				
2/12/25 6:09:24 PM			4.90000E+03				
2/13/25 9:55:45 AM			5.01000E+03				
2/14/25 5:42:38 PM			5.13200E+03				
2/17/25 9:09:12 AM			5.50500E+03				
2/18/25 12:04:53 PM			5.59300E+03				
2/19/25 5:05:23 PM			5.50700E+03				
2/20/25 2:52:28 PM			4.95500E+03				
2/21/25 10:18:44 AM			5.26200E+03				
2/24/25 9:21:26 AM			5.24300E+03				
2/25/25 9:07:30 AM			5.08100E+03				
2/26/25 10:36:31 AM			5.30300E+03				
2/27/25 11:06:07 AM			5.46000E+03				
2/28/25 9:25:33 AM			5.21200E+03				
3/3/25 10:38:47 AM			5.37000E+03				
3/4/25 9:28:04 AM			5.47500E+03				
3/5/25 10:59:22 AM			5.16900E+03				
3/6/25 9:53:27 AM			5.28100E+03				
3/7/25 10:49:20 AM			5.57900E+03				
3/10/25 10:38:47 AM			5.17600E+03				
3/11/25 10:59:27 AM			5.30800E+03				
3/12/25 10:34:09 AM			5.40800E+03				
3/13/25 9:18:28 AM			4.91200E+03				
3/14/25 9:59:29 AM			5.37000E+03				
3/17/25 11:50:35 AM			5.25800E+03				
3/18/25 10:26:22 AM			5.34800E+03				
3/19/25 12:50:37 PM			5.23200E+03				
3/20/25 9:56:53 AM			4.86600E+03				
3/21/25 9:21:08 AM			5.68600E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:25:45 AM			5.55300E+03				
3/26/25 8:40:35 AM			5.44800E+03				
3/27/25 3:48:53 PM			5.17100E+03				
3/28/25 8:12:34 AM			4.81900E+03		In		
3/31/25 8:52:26 AM			5.33800E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\51_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:44:17 AM - 3/31/25 8:52:26 AM
Sample Mean +/- Std Dev : 5290.725 +/- 2.14e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:02:00 AM

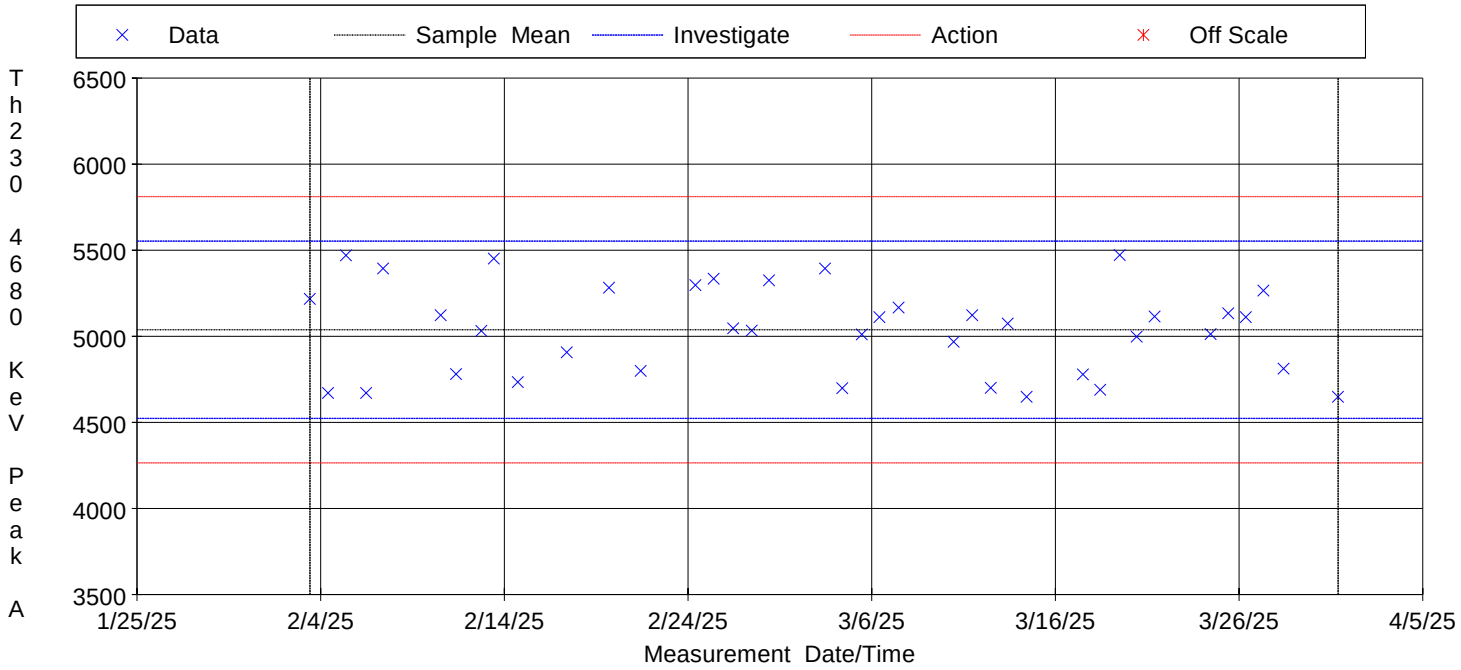
QA File: O:\alpha_sp\2025_QAF\4_April\52
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:44:26 AM
Sample End Date: 3/31/25 8:52:41 AM
Sample Mean: 5.03774E+03
Sample Std. Deviation: 2.57593E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:44:26 AM			5.21700E+03				
2/4/25 9:18:26 AM			4.67100E+03				
2/5/25 8:54:58 AM			5.47000E+03				
2/6/25 11:02:56 AM			4.67100E+03				
2/7/25 9:27:00 AM			5.39300E+03				
2/10/25 12:27:29 PM			5.12100E+03				
2/11/25 8:41:28 AM			4.77900E+03				
2/12/25 5:39:22 PM			5.03100E+03				
2/13/25 9:55:48 AM			5.45100E+03				
2/14/25 5:10:12 PM			4.73300E+03				
2/17/25 9:09:26 AM			4.90700E+03				
2/19/25 4:29:57 PM			5.28200E+03				
2/21/25 9:52:45 AM			4.79800E+03				
2/24/25 9:26:58 AM			5.29600E+03				
2/25/25 9:07:48 AM			5.33400E+03				
2/26/25 10:36:39 AM			5.04500E+03				
2/27/25 10:55:10 AM			5.03200E+03				
2/28/25 9:25:37 AM			5.32400E+03				
3/3/25 10:38:51 AM			5.39300E+03				
3/4/25 9:28:18 AM			4.69800E+03				
3/5/25 10:59:26 AM			5.01000E+03				
3/6/25 9:42:14 AM			5.11100E+03				
3/7/25 10:49:31 AM			5.16700E+03				
3/10/25 10:38:58 AM			4.96700E+03				
3/11/25 10:59:43 AM			5.12200E+03				
3/12/25 11:08:03 AM			4.70000E+03				
3/13/25 9:18:32 AM			5.07300E+03				
3/14/25 9:59:33 AM			4.64800E+03				
3/17/25 11:50:51 AM			4.77700E+03				
3/18/25 10:26:25 AM			4.68900E+03				
3/19/25 11:40:08 AM			5.47100E+03				
3/20/25 9:57:09 AM			4.99700E+03				
3/21/25 9:21:18 AM			5.11400E+03				
3/24/25 10:26:04 AM			5.01200E+03				
3/25/25 9:28:56 AM			5.13300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/26/25 8:40:40 AM			5.11100E+03				
3/27/25 7:39:21 AM			5.26500E+03				
3/28/25 9:44:43 AM			4.81200E+03				
3/31/25 8:52:41 AM			4.64700E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\52_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:44:26 AM - 3/31/25 8:52:41 AM
Sample Mean +/- Std Dev : 5037.744 +/- 2.58e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:03:09 AM

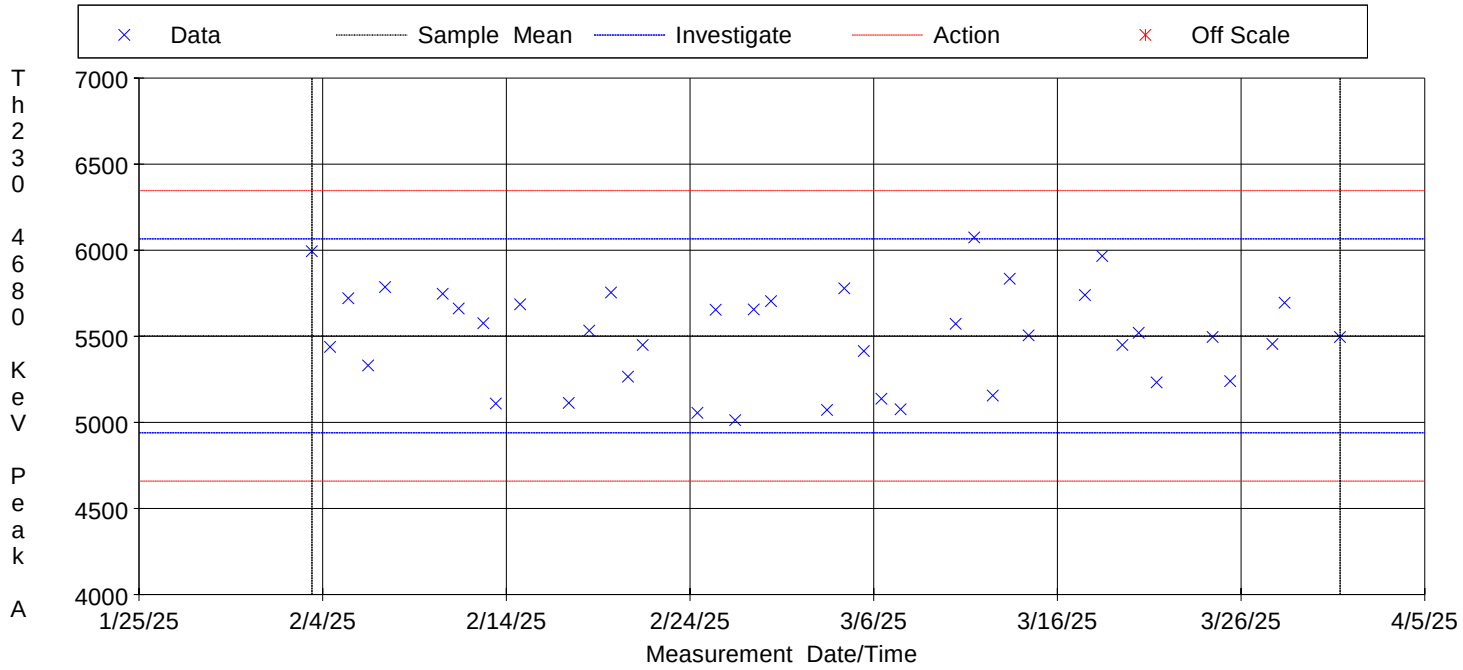
QA File: O:\alpha_sp\2025_QAF\4_April\55
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:44:39 AM
Sample End Date: 3/31/25 8:52:58 AM
Sample Mean: 5.50320E+03
Sample Std. Deviation: 2.81349E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:44:39 AM			5.99300E+03				
2/4/25 9:18:30 AM			5.43700E+03				
2/5/25 9:17:17 AM			5.72000E+03				
2/6/25 11:03:07 AM			5.32900E+03				
2/7/25 9:27:10 AM			5.78500E+03				
2/10/25 12:37:12 PM			5.74700E+03				
2/11/25 9:24:39 AM			5.66000E+03				
2/12/25 5:39:24 PM			5.57600E+03				
2/13/25 9:56:01 AM			5.10800E+03				
2/14/25 5:55:12 PM			5.68500E+03				
2/17/25 9:09:29 AM			5.11300E+03				
2/18/25 12:05:34 PM			5.53300E+03				
2/19/25 4:39:19 PM			5.75400E+03				
2/20/25 2:40:09 PM			5.26400E+03				
2/21/25 9:52:50 AM			5.44800E+03				
2/24/25 9:27:07 AM			5.05400E+03				
2/25/25 9:07:57 AM			5.65300E+03				
2/26/25 10:36:43 AM			5.01200E+03				
2/27/25 10:55:17 AM			5.65500E+03				
2/28/25 9:25:43 AM			5.70300E+03				
3/3/25 10:38:57 AM			5.07200E+03				
3/4/25 9:28:23 AM			5.77800E+03				
3/5/25 10:59:30 AM			5.41300E+03				
3/6/25 9:42:32 AM			5.13600E+03				
3/7/25 10:49:37 AM			5.07600E+03				
3/10/25 10:39:02 AM			5.57200E+03				
3/11/25 11:00:02 AM			6.07400E+03		In		
3/12/25 11:08:23 AM			5.15600E+03				
3/13/25 9:18:36 AM			5.83400E+03				
3/14/25 9:59:45 AM			5.50400E+03				
3/17/25 11:51:07 AM			5.73800E+03				
3/18/25 10:26:39 AM			5.96600E+03				
3/19/25 12:51:09 PM			5.44800E+03				
3/20/25 9:57:27 AM			5.52000E+03				
3/21/25 9:21:29 AM			5.23200E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:26:39 AM			5.49600E+03				
3/25/25 9:29:18 AM			5.23900E+03				
3/27/25 4:49:31 PM			5.45400E+03				
3/28/25 8:36:11 AM			5.69500E+03				
3/31/25 8:52:58 AM			5.49600E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\55_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:44:39 AM - 3/31/25 8:52:58 AM
Sample Mean +/- Std Dev : 5503.200 +/- 2.81e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:04:11 AM

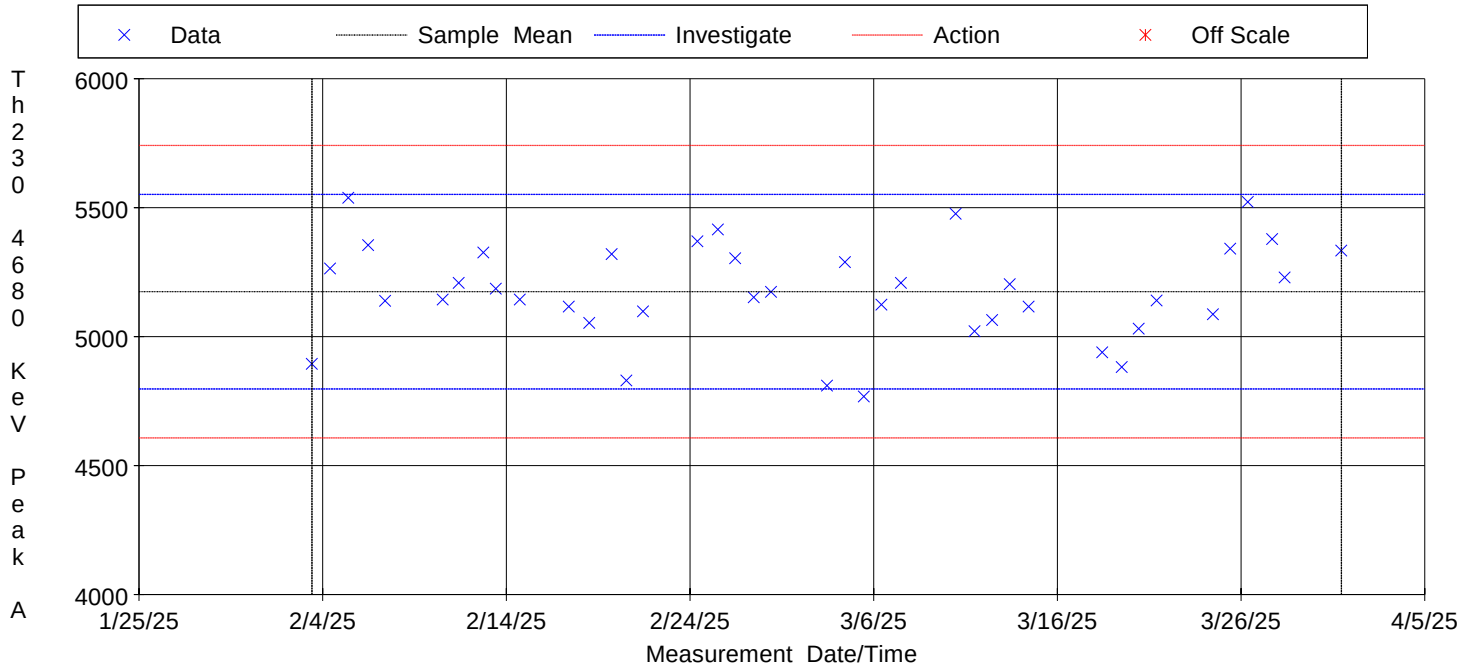
QA File: O:\alpha_sp\2025_QAF\4_April\56
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:44:14 AM
Sample End Date: 3/31/25 10:41:22 AM
Sample Mean: 5.17442E+03
Sample Std. Deviation: 1.88835E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:44:14 AM			4.89400E+03				
2/4/25 9:18:44 AM			5.26400E+03				
2/5/25 9:17:35 AM			5.53800E+03				
2/6/25 11:03:17 AM			5.35400E+03				
2/7/25 9:27:23 AM			5.13800E+03				
2/10/25 12:37:36 PM			5.14300E+03				
2/11/25 9:24:43 AM			5.20800E+03				
2/12/25 5:39:25 PM			5.32600E+03				
2/13/25 9:56:13 AM			5.18600E+03				
2/14/25 5:16:04 PM			5.14300E+03				
2/17/25 9:09:45 AM			5.11600E+03				
2/18/25 12:05:50 PM			5.05300E+03				
2/19/25 5:31:09 PM			5.32000E+03				
2/20/25 12:28:03 PM			4.83000E+03				
2/21/25 10:19:46 AM			5.09800E+03				
2/24/25 9:27:13 AM			5.36900E+03				
2/25/25 12:06:01 PM			5.41500E+03				
2/26/25 10:37:04 AM			5.30300E+03				
2/27/25 10:55:45 AM			5.15200E+03				
2/28/25 9:26:03 AM			5.17300E+03				
3/3/25 10:39:26 AM			4.81000E+03				
3/4/25 10:02:52 AM			5.28800E+03				
3/5/25 10:59:49 AM			4.76700E+03		In		
3/6/25 9:42:48 AM			5.12300E+03				
3/7/25 11:17:10 AM			5.20800E+03				
3/10/25 10:39:26 AM			5.47600E+03				
3/11/25 11:41:56 AM			5.02000E+03				
3/12/25 10:34:24 AM			5.06400E+03				
3/13/25 9:18:49 AM			5.20300E+03				
3/14/25 10:00:03 AM			5.11600E+03				
3/18/25 10:27:04 AM			4.93800E+03				
3/19/25 11:40:37 AM			4.88200E+03				
3/20/25 9:57:36 AM			5.03100E+03				
3/21/25 9:21:42 AM			5.14000E+03				
3/24/25 10:48:02 AM			5.08600E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:29:21 AM			5.34000E+03				
3/26/25 8:41:24 AM			5.52200E+03				
3/27/25 4:22:01 PM			5.37800E+03				
3/28/25 8:35:17 AM			5.22900E+03				
3/31/25 10:41:22 AM			5.33300E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\56_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:44:14 AM - 3/31/25 10:41:22 AM
Sample Mean +/- Std Dev : 5174.425 +/- 1.89e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

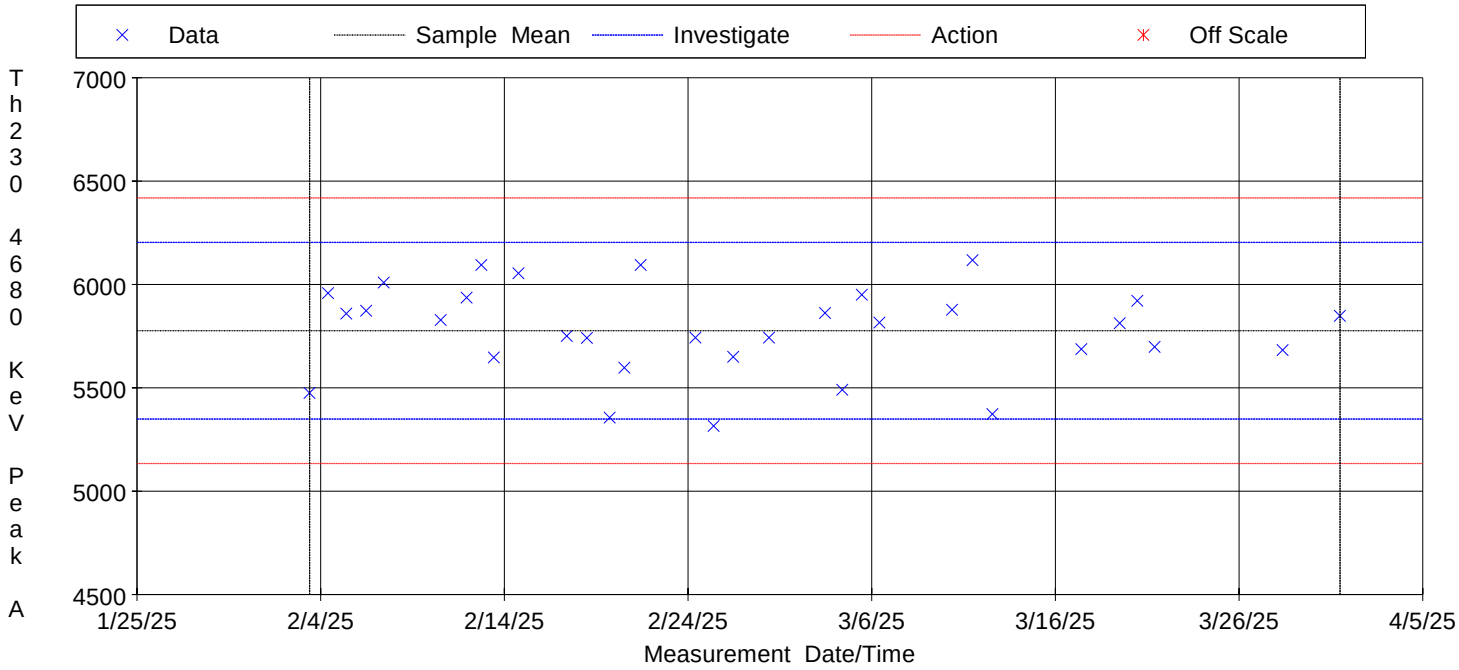
Full Parameter Results Report
4/2/25 11:05:19 AM

QA File: O:\alpha_sp\2025_QAF\4_April\57
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:14:48 AM
Sample End Date: 3/31/25 11:31:30 AM
Sample Mean: 5.77638E+03
Sample Std. Deviation: 2.13956E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:14:48 AM			5.47500E+03				
2/4/25 9:16:45 AM			5.95800E+03				
2/5/25 9:15:31 AM			5.85800E+03				
2/6/25 11:10:49 AM			5.87300E+03				
2/7/25 10:14:56 AM			6.00900E+03				
2/10/25 12:25:53 PM			5.82800E+03				
2/11/25 10:29:12 PM			5.93500E+03				
2/12/25 5:46:39 PM			6.09300E+03				
2/13/25 9:54:24 AM			5.64600E+03				
2/14/25 6:16:19 PM			6.05400E+03				
2/17/25 9:10:03 AM			5.75000E+03				
2/18/25 11:47:11 AM			5.74000E+03				
2/19/25 5:26:10 PM			5.35600E+03				
2/20/25 12:26:01 PM			5.59700E+03				
2/21/25 9:54:47 AM			6.09300E+03				
2/24/25 9:24:56 AM			5.74200E+03				
2/25/25 9:08:07 AM			5.31500E+03	In			
2/26/25 10:35:09 AM			5.65000E+03				
2/28/25 9:22:56 AM			5.74200E+03				
3/3/25 10:47:12 AM			5.86200E+03				
3/4/25 9:26:00 AM			5.49000E+03				
3/5/25 10:58:03 AM			5.94900E+03				
3/6/25 9:40:11 AM			5.81500E+03				
3/10/25 8:54:48 AM			5.87700E+03				
3/11/25 11:40:26 AM			6.11700E+03				
3/12/25 1:23:53 PM			5.37200E+03				
3/17/25 9:42:31 AM			5.68700E+03				
3/19/25 11:40:57 AM			5.81200E+03				
3/20/25 11:01:29 AM			5.92100E+03				
3/21/25 9:19:33 AM			5.69800E+03				
3/28/25 8:46:31 AM			5.68200E+03				
3/31/25 11:31:30 AM			5.84800E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\57_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:14:48 AM - 3/31/25 11:31:30 AM
Sample Mean +/- Std Dev : 5776.375 +/- 2.14e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:06:29 AM

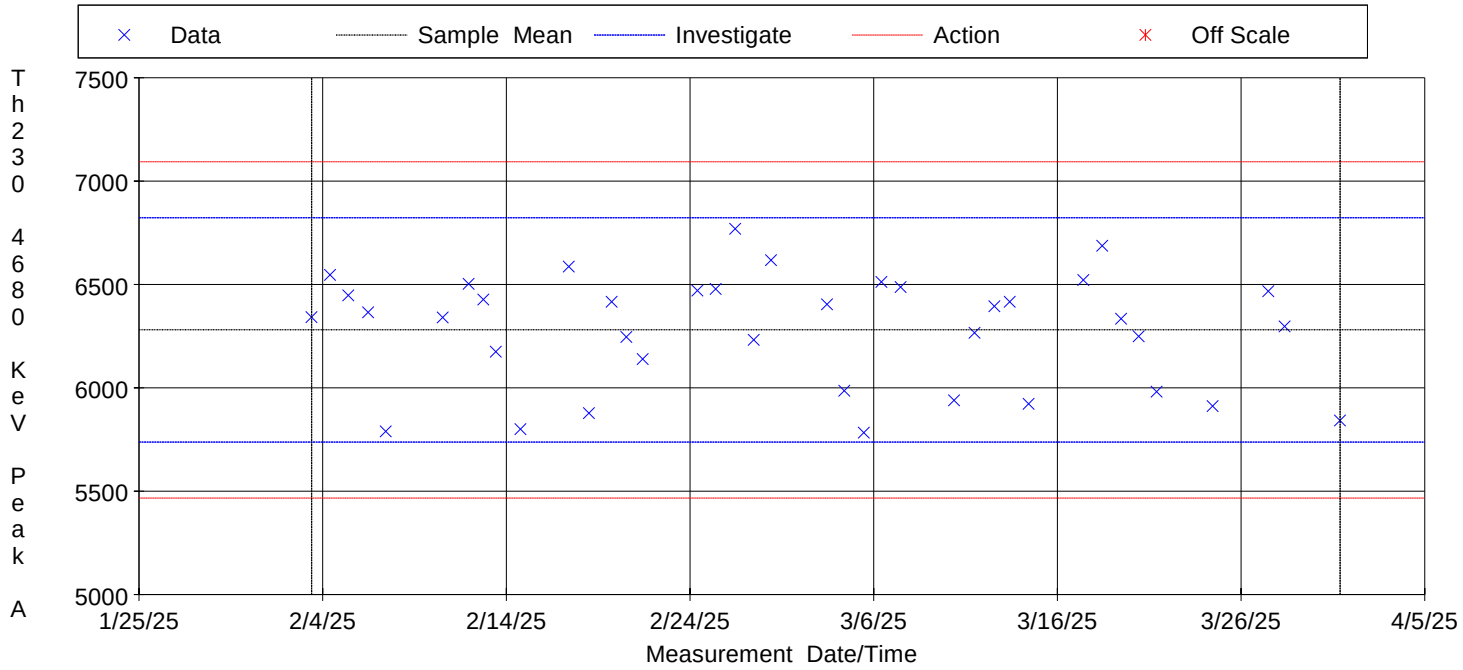
QA File: O:\alpha_sp\2025_QAF\4_April\58
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:17:24 AM
Sample End Date: 3/31/25 8:53:05 AM
Sample Mean: 6.28069E+03
Sample Std. Deviation: 2.71153E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:17:24 AM			6.34200E+03				
2/4/25 9:16:48 AM			6.54500E+03				
2/5/25 9:15:36 AM			6.44600E+03				
2/6/25 11:10:53 AM			6.36500E+03				
2/7/25 10:14:59 AM			5.78900E+03				
2/10/25 12:25:56 PM			6.34000E+03				
2/11/25 10:23:25 PM			6.50300E+03				
2/12/25 5:39:36 PM			6.42600E+03				
2/13/25 9:54:29 AM			6.17400E+03				
2/14/25 6:15:28 PM			5.80000E+03				
2/17/25 9:10:07 AM			6.58600E+03				
2/18/25 11:45:12 AM			5.87700E+03				
2/19/25 5:24:37 PM			6.41500E+03				
2/20/25 12:26:05 PM			6.24500E+03				
2/21/25 9:53:18 AM			6.13800E+03				
2/24/25 9:25:00 AM			6.47000E+03				
2/25/25 9:08:11 AM			6.47700E+03				
2/26/25 10:35:10 AM			6.76800E+03				
2/27/25 10:57:02 AM			6.23200E+03				
2/28/25 9:23:01 AM			6.61700E+03				
3/3/25 10:36:15 AM			6.40400E+03				
3/4/25 9:26:06 AM			5.98500E+03				
3/5/25 10:58:11 AM			5.78200E+03				
3/6/25 9:40:12 AM			6.51200E+03				
3/7/25 10:50:32 AM			6.48700E+03				
3/10/25 8:54:52 AM			5.93900E+03				
3/11/25 11:40:29 AM			6.26600E+03				
3/12/25 1:23:55 PM			6.39400E+03				
3/13/25 9:19:35 AM			6.41600E+03				
3/14/25 10:00:27 AM			5.92200E+03				
3/17/25 9:42:35 AM			6.52100E+03				
3/18/25 10:27:30 AM			6.68600E+03				
3/19/25 11:06:00 AM			6.33400E+03				
3/20/25 9:54:59 AM			6.24900E+03				
3/21/25 9:19:28 AM			5.98100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:23:22 AM			5.91100E+03				
3/27/25 11:11:16 AM			6.46600E+03				
3/28/25 8:45:21 AM			6.29600E+03				
3/31/25 8:53:05 AM			5.84100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\58_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:17:24 AM - 3/31/25 8:53:05 AM
Sample Mean +/- Std Dev : 6280.692 +/- 2.71e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:07:14 AM

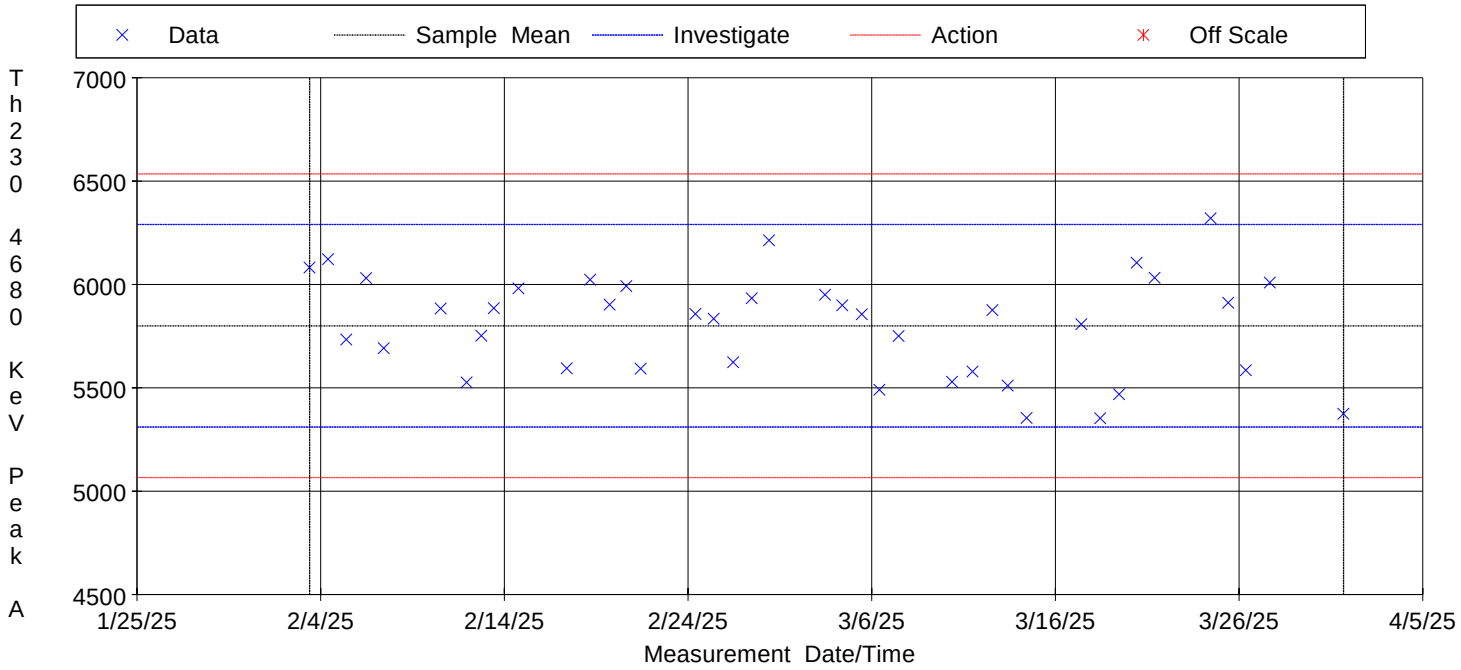
QA File: O:\alpha_sp\2025_QAF\4_April\61
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:17:58 AM
Sample End Date: 3/31/25 4:04:15 PM
Sample Mean: 5.79980E+03
Sample Std. Deviation: 2.44874E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:17:58 AM			6.08100E+03				
2/4/25 9:16:57 AM			6.12100E+03				
2/5/25 9:16:01 AM			5.73300E+03				
2/6/25 11:10:56 AM			6.03000E+03				
2/7/25 10:15:04 AM			5.69100E+03				
2/10/25 12:25:59 PM			5.88300E+03				
2/11/25 10:23:27 PM			5.52600E+03				
2/12/25 5:39:38 PM			5.75200E+03				
2/13/25 9:54:43 AM			5.88400E+03				
2/14/25 6:17:17 PM			5.98100E+03				
2/17/25 9:10:30 AM			5.59400E+03				
2/18/25 3:53:06 PM			6.02200E+03				
2/19/25 5:27:33 PM			5.90200E+03				
2/20/25 3:02:20 PM			5.99200E+03				
2/21/25 9:53:21 AM			5.59200E+03				
2/24/25 9:25:04 AM			5.85700E+03				
2/25/25 9:08:34 AM			5.83400E+03				
2/26/25 10:35:13 AM			5.62300E+03				
2/27/25 11:08:31 AM			5.93300E+03				
2/28/25 9:25:17 AM			6.21300E+03				
3/3/25 10:36:56 AM			5.95000E+03				
3/4/25 9:26:45 AM			5.89800E+03				
3/5/25 10:58:34 AM			5.85600E+03				
3/6/25 9:40:16 AM			5.49000E+03				
3/7/25 10:50:38 AM			5.75000E+03				
3/10/25 8:55:01 AM			5.52900E+03				
3/11/25 11:40:33 AM			5.57800E+03				
3/12/25 1:23:59 PM			5.87500E+03				
3/13/25 9:19:55 AM			5.51000E+03				
3/14/25 10:00:45 AM			5.35300E+03				
3/17/25 9:42:49 AM			5.80700E+03				
3/18/25 10:27:43 AM			5.35200E+03				
3/19/25 11:06:23 AM			5.46800E+03				
3/20/25 9:55:20 AM			6.10400E+03				
3/21/25 9:19:58 AM			6.03100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:23:29 AM			6.32000E+03		In		
3/25/25 9:30:51 AM			5.91100E+03				
3/26/25 8:38:43 AM			5.58400E+03				
3/27/25 3:49:53 PM			6.00800E+03				
3/31/25 4:04:15 PM			5.37400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\61_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:17:58 AM - 3/31/25 4:04:15 PM
Sample Mean +/- Std Dev : 5799.800 +/- 2.45e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:08:14 AM

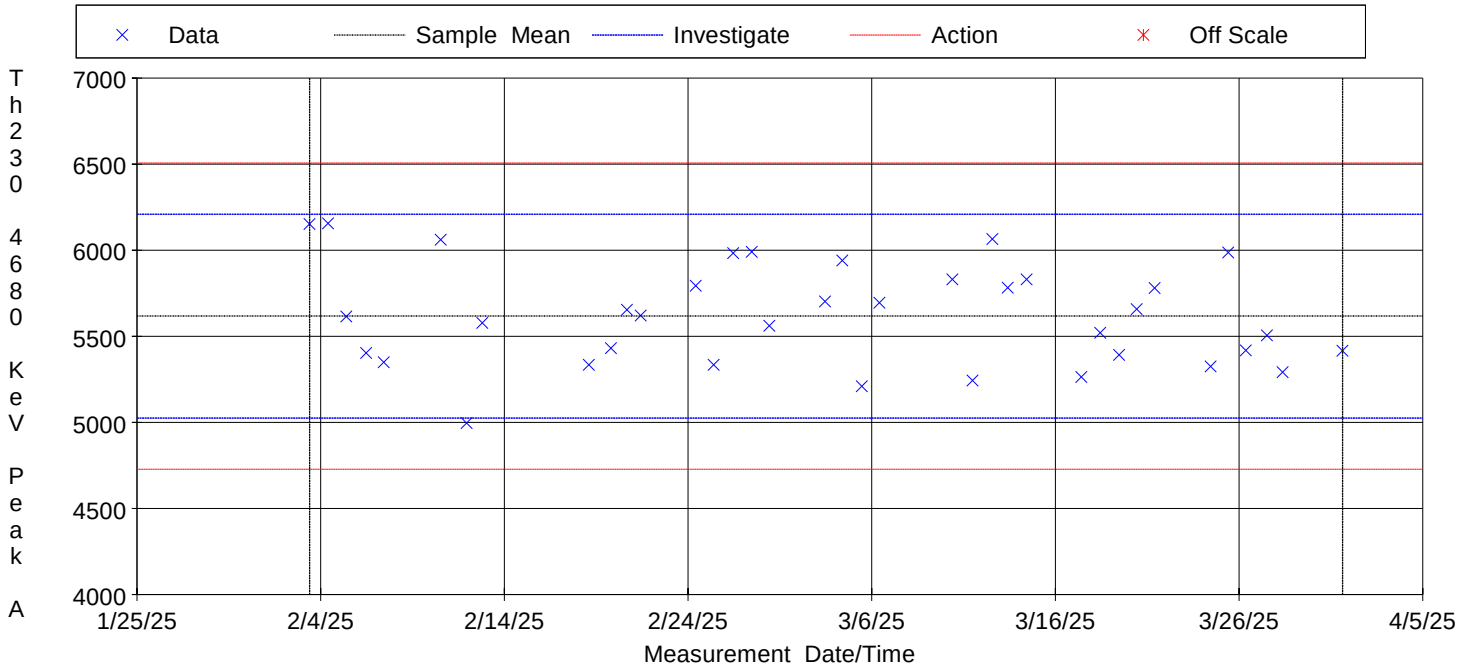
QA File: O:\alpha_sp\2025_QAF\4_April\62
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:18:10 AM
Sample End Date: 3/31/25 3:00:01 PM
Sample Mean: 5.61727E+03
Sample Std. Deviation: 2.96242E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:18:10 AM			6.15200E+03				
2/4/25 9:17:01 AM			6.15500E+03				
2/5/25 9:16:26 AM			5.61500E+03				
2/6/25 11:11:32 AM			5.40200E+03				
2/7/25 10:15:43 AM			5.34800E+03				
2/10/25 12:26:22 PM			6.06100E+03				
2/11/25 10:26:14 PM			4.99500E+03		In		
2/12/25 7:08:02 PM			5.57800E+03				
2/18/25 2:19:25 PM			5.33300E+03				
2/19/25 7:02:22 PM			5.43100E+03				
2/20/25 3:45:35 PM			5.65400E+03				
2/21/25 9:53:40 AM			5.61900E+03				
2/24/25 9:40:03 AM			5.79300E+03				
2/25/25 9:09:01 AM			5.33300E+03				
2/26/25 10:55:43 AM			5.98300E+03				
2/27/25 11:08:54 AM			5.98900E+03				
2/28/25 9:47:25 AM			5.56000E+03				
3/3/25 10:37:08 AM			5.70100E+03				
3/4/25 9:26:52 AM			5.93900E+03				
3/5/25 10:58:45 AM			5.21000E+03				
3/6/25 9:40:41 AM			5.69500E+03				
3/10/25 9:18:23 AM			5.83000E+03				
3/11/25 11:40:53 AM			5.24200E+03				
3/12/25 1:24:01 PM			6.06400E+03				
3/13/25 9:20:09 AM			5.78100E+03				
3/14/25 10:01:29 AM			5.82900E+03				
3/17/25 9:43:16 AM			5.26300E+03				
3/18/25 10:27:58 AM			5.52000E+03				
3/19/25 11:06:37 AM			5.39100E+03				
3/20/25 9:55:30 AM			5.65700E+03				
3/21/25 9:20:04 AM			5.77900E+03				
3/24/25 10:23:33 AM			5.32500E+03				
3/25/25 9:30:54 AM			5.98600E+03				
3/26/25 8:38:49 AM			5.41700E+03				
3/27/25 11:58:53 AM			5.50400E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/28/25 8:49:43 AM			5.29000E+03				
3/31/25 3:00:01 PM			5.41500E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\62_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:18:10 AM - 3/31/25 3:00:01 PM
Sample Mean +/- Std Dev : 5617.271 +/- 2.96e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:09:33 AM

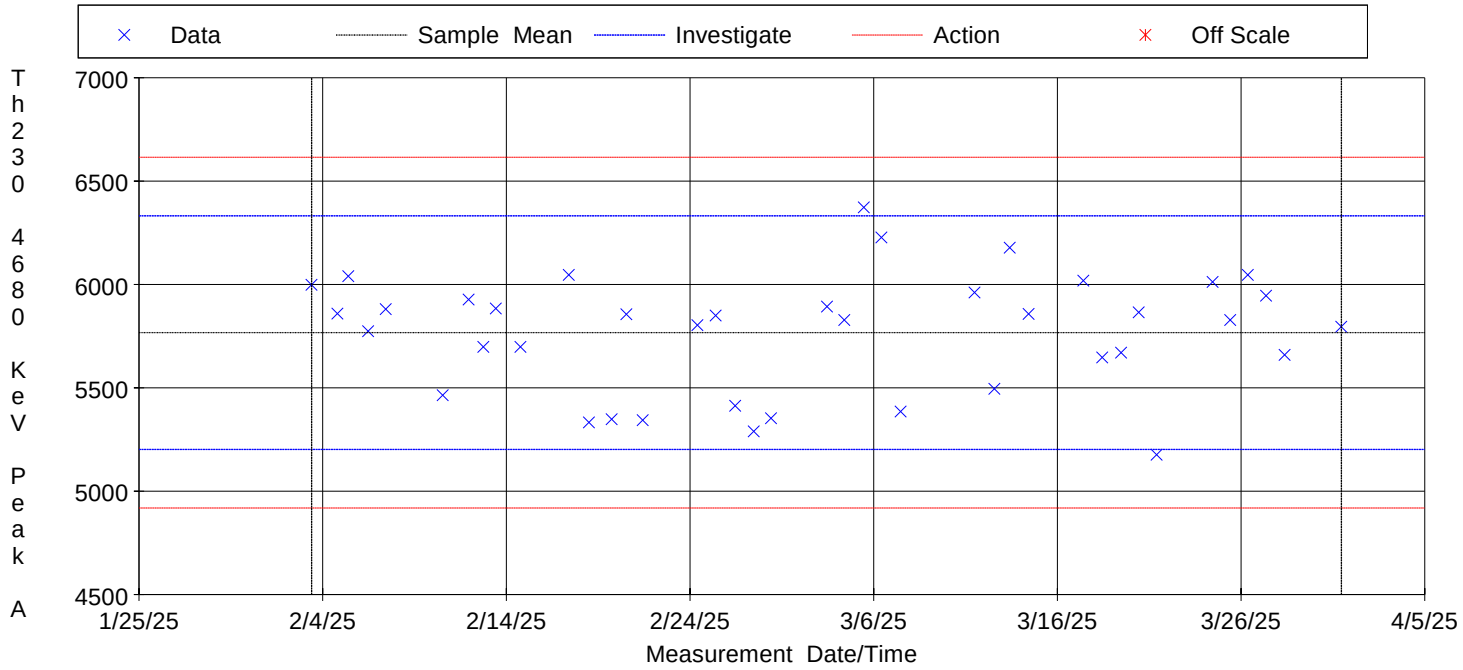
QA File: O:\alpha_sp\2025_QAF\4_April\65
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:18:14 AM
Sample End Date: 3/31/25 10:37:52 AM
Sample Mean: 5.76735E+03
Sample Std. Deviation: 2.82721E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:18:14 AM			5.99700E+03				
2/4/25 7:05:00 PM			5.85800E+03				
2/5/25 9:16:28 AM			6.03900E+03				
2/6/25 11:11:43 AM			5.77300E+03				
2/7/25 10:15:44 AM			5.88000E+03				
2/10/25 12:26:26 PM			5.46400E+03				
2/11/25 10:23:30 PM			5.92600E+03				
2/12/25 5:39:41 PM			5.69700E+03				
2/13/25 9:55:01 AM			5.88300E+03				
2/14/25 6:15:32 PM			5.69800E+03				
2/17/25 9:11:02 AM			6.04500E+03				
2/18/25 11:45:59 AM			5.33200E+03				
2/19/25 5:24:42 PM			5.34700E+03				
2/20/25 12:26:34 PM			5.85600E+03				
2/21/25 9:53:58 AM			5.34300E+03				
2/24/25 9:25:44 AM			5.80200E+03				
2/25/25 9:09:04 AM			5.84900E+03				
2/26/25 10:35:39 AM			5.41200E+03				
2/27/25 10:57:58 AM			5.28900E+03				
2/28/25 9:23:48 AM			5.35200E+03				
3/3/25 10:37:13 AM			5.89300E+03				
3/4/25 9:26:58 AM			5.82800E+03				
3/5/25 10:58:47 AM			6.37200E+03		In		
3/6/25 9:40:44 AM			6.22700E+03				
3/7/25 10:50:46 AM			5.38400E+03				
3/11/25 11:40:55 AM			5.96000E+03				
3/12/25 1:24:04 PM			5.49400E+03				
3/13/25 9:20:12 AM			6.17800E+03				
3/14/25 10:01:32 AM			5.85700E+03				
3/17/25 9:43:18 AM			6.01800E+03				
3/18/25 10:28:07 AM			5.64700E+03				
3/19/25 11:06:41 AM			5.67000E+03				
3/20/25 9:55:35 AM			5.86500E+03				
3/21/25 9:20:08 AM			5.17600E+03		In		
3/24/25 10:23:39 AM			6.01100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:30:59 AM			5.82800E+03				
3/26/25 8:38:59 AM			6.04600E+03				
3/27/25 8:15:03 AM			5.94500E+03				
3/28/25 8:45:27 AM			5.65800E+03				
3/31/25 10:37:52 AM			5.79500E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\65_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:18:14 AM - 3/31/25 10:37:52 AM
Sample Mean +/- Std Dev : 5767.350 +/- 2.83e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:10:56 AM

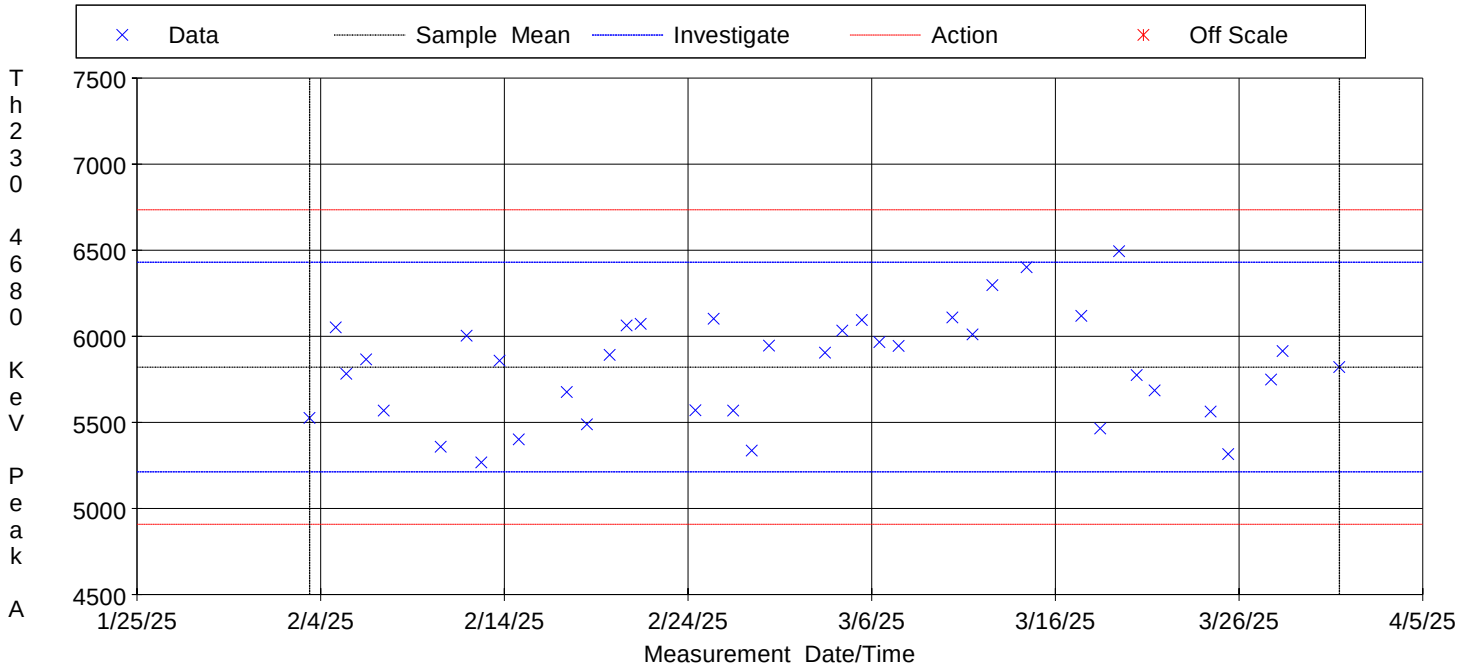
QA File: O:\alpha_sp\2025_QAF\4_April\66
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:18:18 AM
Sample End Date: 3/31/25 10:39:56 AM
Sample Mean: 5.82128E+03
Sample Std. Deviation: 3.04553E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:18:18 AM			5.52600E+03				
2/4/25 7:38:47 PM			6.05100E+03				
2/5/25 9:16:44 AM			5.78100E+03				
2/6/25 11:11:59 AM			5.86500E+03				
2/7/25 10:15:47 AM			5.56700E+03				
2/10/25 12:26:39 PM			5.35800E+03				
2/11/25 10:27:52 PM			6.00200E+03				
2/12/25 5:45:03 PM			5.26700E+03				
2/13/25 5:22:24 PM			5.85800E+03				
2/14/25 6:30:07 PM			5.40000E+03				
2/17/25 9:11:31 AM			5.67500E+03				
2/18/25 11:46:16 AM			5.48700E+03				
2/19/25 5:29:08 PM			5.89100E+03				
2/20/25 3:38:12 PM			6.06200E+03				
2/21/25 9:54:16 AM			6.07200E+03				
2/24/25 9:25:56 AM			5.56900E+03				
2/25/25 9:09:25 AM			6.10200E+03				
2/26/25 10:36:06 AM			5.56700E+03				
2/27/25 11:10:19 AM			5.33500E+03				
2/28/25 9:24:43 AM			5.94500E+03				
3/3/25 10:37:38 AM			5.90500E+03				
3/4/25 9:27:34 AM			6.03200E+03				
3/5/25 10:58:52 AM			6.09300E+03				
3/6/25 9:41:04 AM			5.96600E+03				
3/7/25 10:50:58 AM			5.94400E+03				
3/10/25 9:19:06 AM			6.10800E+03				
3/11/25 11:41:10 AM			6.01000E+03				
3/12/25 1:24:07 PM			6.29700E+03				
3/14/25 10:01:40 AM			6.40000E+03				
3/17/25 9:43:34 AM			6.11800E+03				
3/18/25 10:28:09 AM			5.46400E+03				
3/19/25 11:06:58 AM			6.49300E+03		In		
3/20/25 9:56:01 AM			5.77500E+03				
3/21/25 9:20:27 AM			5.68500E+03				
3/24/25 10:24:24 AM			5.56200E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:31:10 AM			5.31500E+03				
3/27/25 5:27:25 PM			5.74800E+03				
3/28/25 8:47:19 AM			5.91400E+03				
3/31/25 10:39:56 AM			5.82100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\66_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:18:18 AM - 3/31/25 10:39:56 AM
Sample Mean +/- Std Dev : 5821.282 +/- 3.05e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:11:50 AM

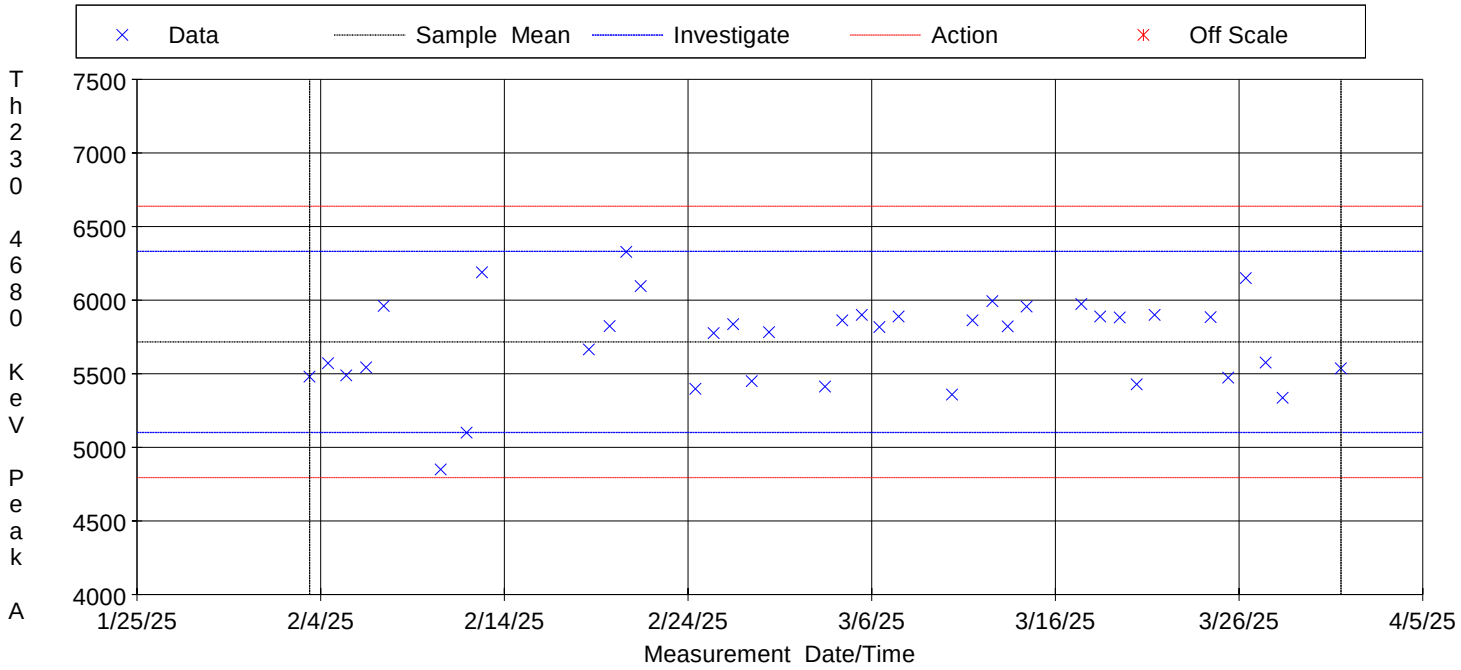
QA File: O:\alpha_sp\2025_QAF\4_April\67
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:18:37 AM
Sample End Date: 3/31/25 12:38:47 PM
Sample Mean: 5.71597E+03
Sample Std. Deviation: 3.07351E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:18:37 AM			5.47900E+03				
2/4/25 9:18:11 AM			5.57000E+03				
2/5/25 9:16:48 AM			5.48900E+03				
2/6/25 11:12:14 AM			5.54200E+03				
2/7/25 10:15:50 AM			5.95900E+03				
2/10/25 12:26:59 PM			4.84800E+03		In		
2/11/25 10:28:13 PM			5.10000E+03		In		
2/12/25 6:30:30 PM			6.18700E+03				
2/18/25 2:20:50 PM			5.66400E+03				
2/19/25 5:29:58 PM			5.82200E+03				
2/20/25 3:09:43 PM			6.32700E+03				
2/21/25 9:54:18 AM			6.09500E+03				
2/24/25 9:26:01 AM			5.39600E+03				
2/25/25 9:09:29 AM			5.77500E+03				
2/26/25 10:36:22 AM			5.83500E+03				
2/27/25 10:58:45 AM			5.44900E+03				
2/28/25 9:24:44 AM			5.78200E+03				
3/3/25 10:38:03 AM			5.41300E+03				
3/4/25 9:27:47 AM			5.86200E+03				
3/5/25 10:59:03 AM			5.89900E+03				
3/6/25 9:41:07 AM			5.81700E+03				
3/7/25 10:51:10 AM			5.88900E+03				
3/10/25 8:55:59 AM			5.35700E+03				
3/11/25 11:41:12 AM			5.86300E+03				
3/12/25 1:24:13 PM			5.99300E+03				
3/13/25 9:20:41 AM			5.82000E+03				
3/14/25 10:01:53 AM			5.95600E+03				
3/17/25 9:43:52 AM			5.97300E+03				
3/18/25 10:28:15 AM			5.88700E+03				
3/19/25 11:41:33 AM			5.88100E+03				
3/20/25 9:56:10 AM			5.42700E+03				
3/21/25 9:20:45 AM			5.89900E+03				
3/24/25 10:24:49 AM			5.88400E+03				
3/25/25 9:31:24 AM			5.47200E+03				
3/26/25 8:39:54 AM			6.15000E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/27/25 10:31:38 AM			5.57600E+03				
3/28/25 8:49:13 AM			5.33500E+03				
3/31/25 12:38:47 PM			5.53500E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\67_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:18:37 AM - 3/31/25 12:38:47 PM
Sample Mean +/- Std Dev : 5715.974 +/- 3.07e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:12:54 AM

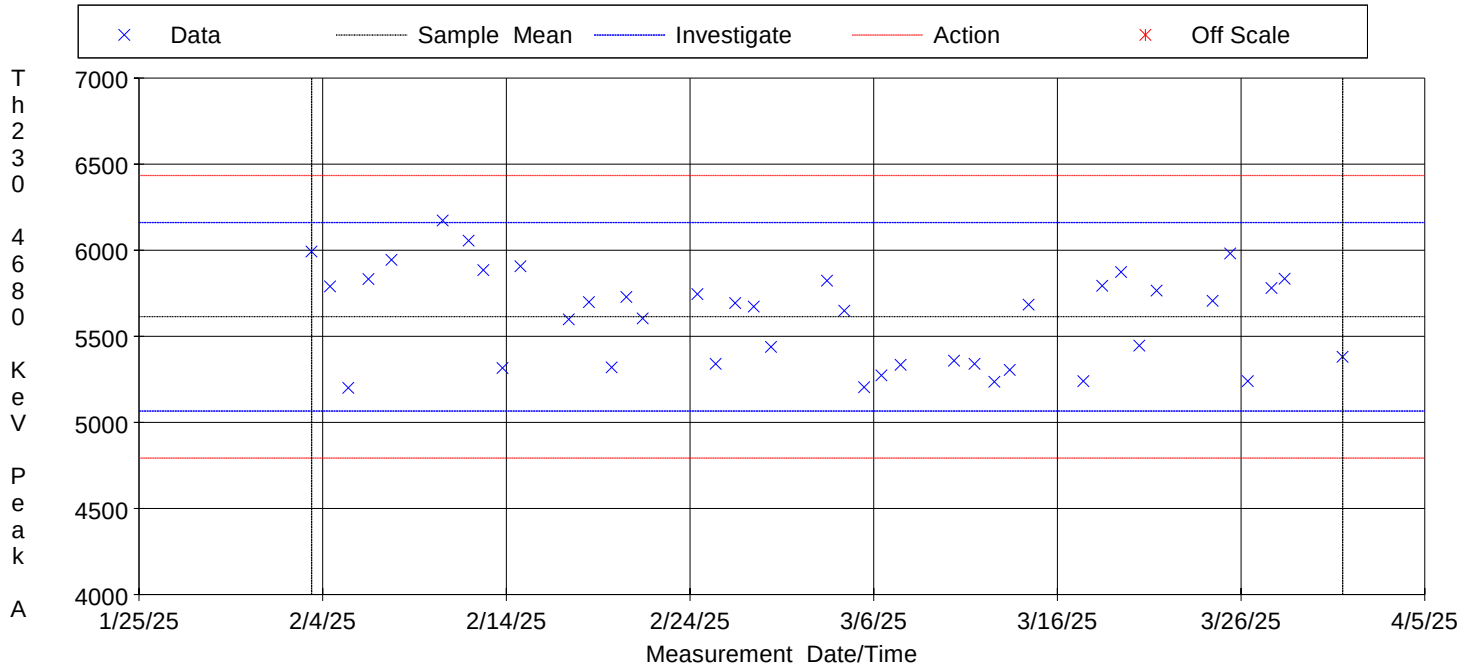
QA File: O:\alpha_sp\2025_QAF\4_April\68
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:18:42 AM
Sample End Date: 3/31/25 12:27:06 PM
Sample Mean: 5.61344E+03
Sample Std. Deviation: 2.73422E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:18:42 AM			5.99200E+03				
2/4/25 9:17:21 AM			5.78900E+03				
2/5/25 9:17:00 AM			5.20000E+03				
2/6/25 11:31:04 AM			5.83200E+03				
2/7/25 5:28:57 PM			5.94400E+03				
2/10/25 12:27:03 PM			6.17200E+03	In			
2/11/25 10:28:30 PM			6.05400E+03				
2/12/25 5:46:04 PM			5.88300E+03				
2/13/25 6:44:33 PM			5.31500E+03				
2/14/25 6:23:47 PM			5.90700E+03				
2/17/25 9:11:53 AM			5.59800E+03				
2/18/25 11:46:52 AM			5.69800E+03				
2/19/25 5:30:33 PM			5.31800E+03				
2/20/25 12:27:25 PM			5.72700E+03				
2/21/25 9:54:30 AM			5.60400E+03				
2/24/25 9:26:44 AM			5.74500E+03				
2/25/25 9:09:41 AM			5.34000E+03				
2/26/25 10:36:24 AM			5.69300E+03				
2/27/25 10:59:13 AM			5.67200E+03				
2/28/25 9:24:51 AM			5.43800E+03				
3/3/25 10:51:33 AM			5.82200E+03				
3/4/25 9:27:52 AM			5.64700E+03				
3/5/25 11:18:37 AM			5.20300E+03				
3/6/25 9:41:20 AM			5.27200E+03				
3/7/25 10:51:42 AM			5.33400E+03				
3/10/25 8:55:59 AM			5.35700E+03				
3/11/25 11:41:29 AM			5.34000E+03				
3/12/25 1:24:15 PM			5.23600E+03				
3/13/25 9:20:52 AM			5.30400E+03				
3/14/25 10:01:59 AM			5.68400E+03				
3/17/25 9:44:09 AM			5.23900E+03				
3/18/25 10:28:19 AM			5.79200E+03				
3/19/25 11:07:29 AM			5.87200E+03				
3/20/25 11:01:54 AM			5.44600E+03				
3/21/25 9:20:48 AM			5.76500E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:24:54 AM			5.70500E+03				
3/25/25 9:31:28 AM			5.98000E+03				
3/26/25 8:39:59 AM			5.23900E+03				
3/27/25 3:36:20 PM			5.77900E+03				
3/28/25 8:51:38 AM			5.83300E+03				
3/31/25 12:27:06 PM			5.38100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\68_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:18:42 AM - 3/31/25 12:27:06 PM
Sample Mean +/- Std Dev : 5613.439 +/- 2.73e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:20:21 AM

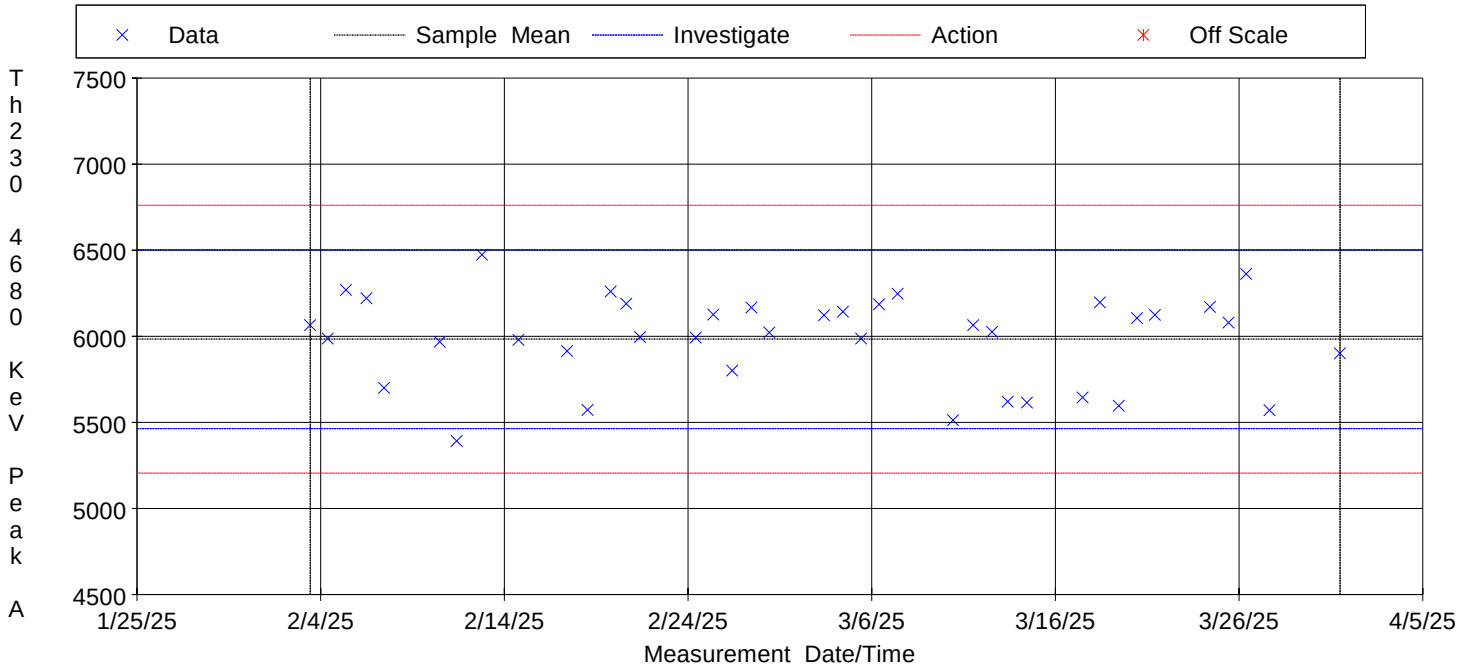
QA File: O:\alpha_sp\2025_QAF\4_April\69
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:48:37 AM
Sample End Date: 3/31/25 11:28:35 AM
Sample Mean: 5.98328E+03
Sample Std. Deviation: 2.59514E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:48:37 AM			6.06400E+03				
2/4/25 8:52:25 AM			5.98600E+03				
2/5/25 8:53:31 AM			6.26900E+03				
2/6/25 11:30:04 AM			6.22100E+03				
2/7/25 10:40:14 AM			5.70000E+03				
2/10/25 11:17:32 AM			5.96700E+03				
2/11/25 9:23:14 AM			5.39200E+03		In		
2/12/25 6:32:38 PM			6.47300E+03				
2/14/25 6:15:16 PM			5.97800E+03				
2/17/25 9:41:59 AM			5.91300E+03				
2/18/25 12:22:17 PM			5.57100E+03				
2/19/25 6:30:03 PM			6.25900E+03				
2/20/25 3:16:02 PM			6.18800E+03				
2/21/25 8:53:52 AM			5.99500E+03				
2/24/25 9:45:35 AM			5.99200E+03				
2/25/25 8:45:40 AM			6.12600E+03				
2/26/25 9:40:13 AM			5.80000E+03				
2/27/25 10:34:18 AM			6.16600E+03				
2/28/25 9:54:59 AM			6.02200E+03				
3/3/25 9:38:58 AM			6.12100E+03				
3/4/25 10:00:37 AM			6.14300E+03				
3/5/25 9:54:07 AM			5.98600E+03				
3/6/25 9:19:31 AM			6.18500E+03				
3/7/25 9:47:24 AM			6.24600E+03				
3/10/25 10:04:37 AM			5.51300E+03				
3/11/25 12:29:53 PM			6.06400E+03				
3/12/25 1:00:33 PM			6.02600E+03				
3/13/25 9:41:01 AM			5.62000E+03				
3/14/25 10:41:35 AM			5.61500E+03				
3/17/25 11:18:43 AM			5.64400E+03				
3/18/25 9:57:50 AM			6.19700E+03				
3/19/25 10:41:56 AM			5.59600E+03				
3/20/25 10:27:32 AM			6.10500E+03				
3/21/25 9:43:32 AM			6.12300E+03				
3/24/25 9:47:08 AM			6.17100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:49:28 AM			6.07900E+03				
3/26/25 9:01:07 AM			6.36200E+03				
3/27/25 3:41:25 PM			5.56900E+03				
3/31/25 11:28:35 AM			5.90100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\69_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:48:37 AM - 3/31/25 11:28:35 AM
Sample Mean +/- Std Dev : 5983.282 +/- 2.60e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:21:09 AM

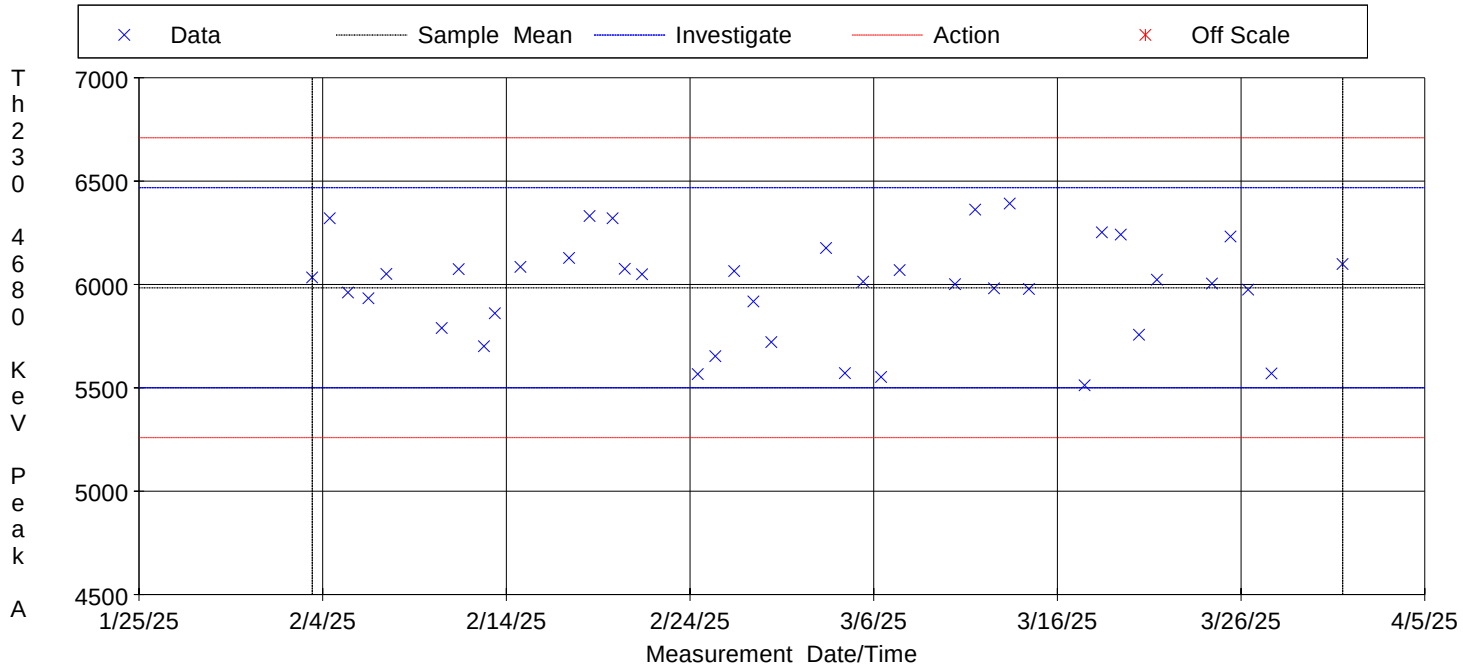
QA File: O:\alpha_sp\2025_QAF\4_April\70
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:48:41 AM
Sample End Date: 3/31/25 12:31:30 PM
Sample Mean: 5.98442E+03
Sample Std. Deviation: 2.41673E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:48:41 AM			6.03400E+03				
2/4/25 8:52:30 AM			6.32000E+03				
2/5/25 8:53:34 AM			5.96000E+03				
2/6/25 11:30:08 AM			5.93200E+03				
2/7/25 10:47:17 AM			6.05100E+03				
2/10/25 11:17:35 AM			5.78800E+03				
2/11/25 9:23:19 AM			6.07400E+03				
2/12/25 6:32:39 PM			5.70100E+03				
2/13/25 8:34:23 AM			5.86000E+03				
2/14/25 6:15:18 PM			6.08400E+03				
2/17/25 9:42:03 AM			6.12800E+03				
2/18/25 12:22:21 PM			6.33100E+03				
2/19/25 6:30:05 PM			6.31900E+03				
2/20/25 10:31:30 AM			6.07500E+03				
2/21/25 8:53:57 AM			6.04800E+03				
2/24/25 9:45:40 AM			5.56600E+03				
2/25/25 8:45:46 AM			5.65300E+03				
2/26/25 9:40:16 AM			6.06500E+03				
2/27/25 10:34:23 AM			5.91700E+03				
2/28/25 9:55:03 AM			5.72000E+03				
3/3/25 9:39:02 AM			6.17500E+03				
3/4/25 10:00:42 AM			5.57100E+03				
3/5/25 9:54:11 AM			6.01300E+03				
3/6/25 9:19:35 AM			5.55200E+03				
3/7/25 9:47:28 AM			6.06900E+03				
3/10/25 10:04:42 AM			6.00100E+03				
3/11/25 12:29:58 PM			6.36100E+03				
3/12/25 1:00:38 PM			5.98100E+03				
3/13/25 9:41:06 AM			6.39100E+03				
3/14/25 10:41:39 AM			5.97700E+03				
3/17/25 11:18:46 AM			5.51100E+03				
3/18/25 9:57:53 AM			6.25200E+03				
3/19/25 10:42:03 AM			6.24000E+03				
3/20/25 10:27:36 AM			5.75600E+03				
3/21/25 9:43:36 AM			6.02300E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 9:47:12 AM			6.00400E+03				
3/25/25 9:49:31 AM			6.23200E+03				
3/26/25 9:01:14 AM			5.97400E+03				
3/27/25 3:41:25 PM			5.56900E+03				
3/31/25 12:31:30 PM			6.09900E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\70_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:48:41 AM - 3/31/25 12:31:30 PM
Sample Mean +/- Std Dev : 5984.425 +/- 2.42e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:22:20 AM

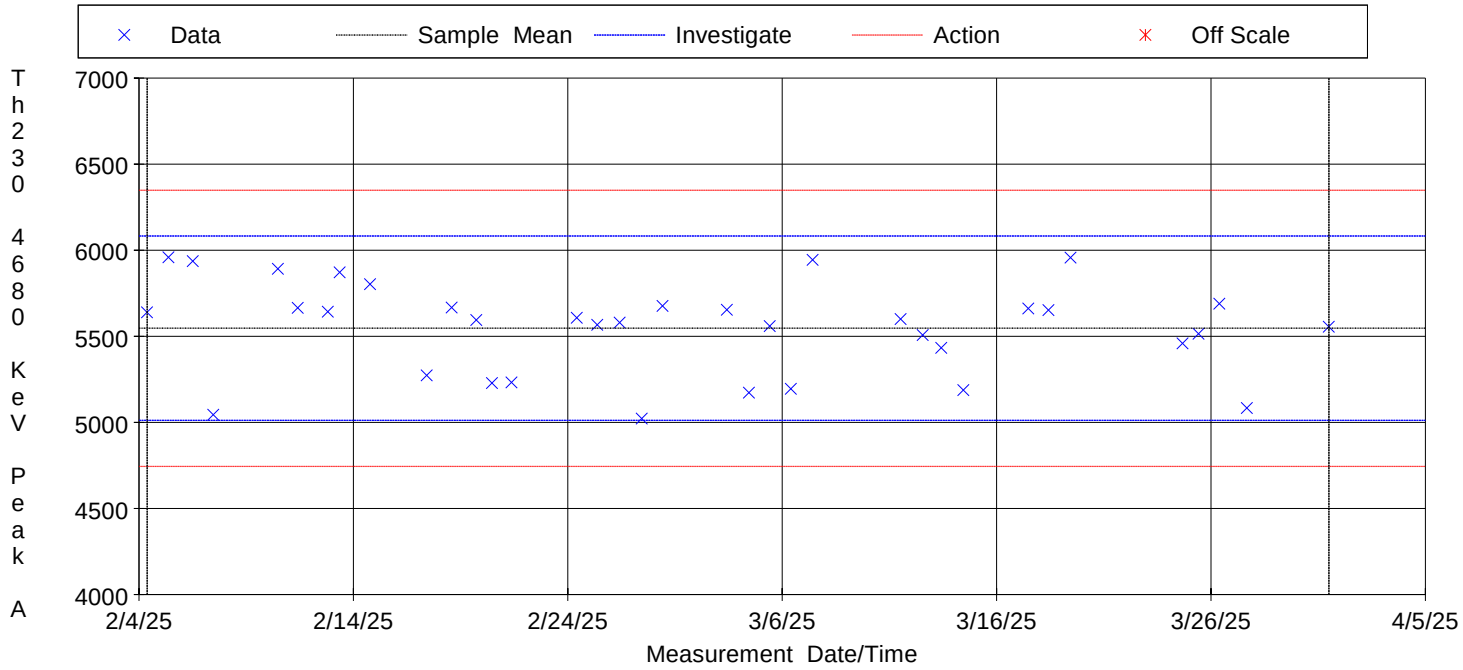
QA File: O:\alpha_sp\2025_QAF\4_April\71
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 8:52:35 AM
Sample End Date: 3/31/25 11:28:38 AM
Sample Mean: 5.54717E+03
Sample Std. Deviation: 2.67394E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 8:52:35 AM			5.63800E+03				
2/5/25 8:53:40 AM			5.95900E+03				
2/6/25 12:07:28 PM			5.93500E+03				
2/7/25 10:47:23 AM			5.04300E+03				
2/10/25 11:17:45 AM			5.89100E+03				
2/11/25 9:23:22 AM			5.66400E+03				
2/12/25 7:13:17 PM			5.64300E+03				
2/13/25 8:34:26 AM			5.87000E+03				
2/14/25 6:34:20 PM			5.80200E+03				
2/17/25 9:42:21 AM			5.27300E+03				
2/18/25 1:46:13 PM			5.66600E+03				
2/19/25 5:24:21 PM			5.59300E+03				
2/20/25 10:52:15 AM			5.22800E+03				
2/21/25 8:54:13 AM			5.23100E+03				
2/24/25 9:45:43 AM			5.60600E+03				
2/25/25 8:45:49 AM			5.56600E+03				
2/26/25 9:40:19 AM			5.57900E+03				
2/27/25 10:34:27 AM			5.02200E+03				
2/28/25 9:55:27 AM			5.67600E+03				
3/3/25 9:59:54 AM			5.65300E+03				
3/4/25 10:29:36 AM			5.17200E+03				
3/5/25 9:54:14 AM			5.55800E+03				
3/6/25 9:19:53 AM			5.19400E+03				
3/7/25 9:47:31 AM			5.94400E+03				
3/11/25 12:30:01 PM			5.60000E+03				
3/12/25 1:00:41 PM			5.50700E+03				
3/13/25 9:41:42 AM			5.43300E+03				
3/14/25 10:41:42 AM			5.18600E+03				
3/17/25 11:18:48 AM			5.66100E+03				
3/18/25 9:57:58 AM			5.65200E+03				
3/19/25 10:42:07 AM			5.95700E+03				
3/24/25 4:01:24 PM			5.45800E+03				
3/25/25 9:49:34 AM			5.51400E+03				
3/26/25 9:01:18 AM			5.68800E+03				
3/27/25 3:54:17 PM			5.08200E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/31/25 11:28:38 AM			5.55400E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\71_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 8:52:35 AM - 3/31/25 11:28:38 AM
Sample Mean +/- Std Dev : 5547.167 +/- 2.67e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:23:03 AM

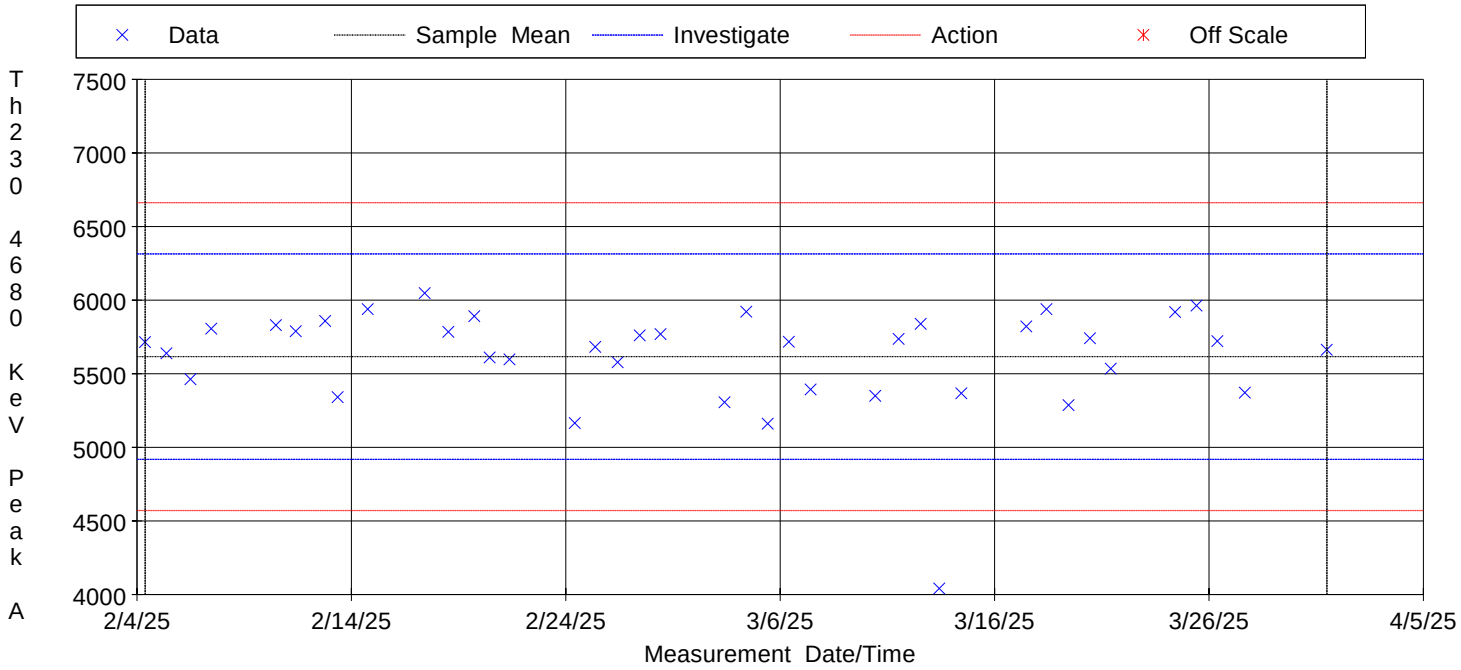
QA File: O:\alpha_sp\2025_QAF\4_April\72
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/4/25 8:52:38 AM
Sample End Date: 3/31/25 11:28:39 AM
Sample Mean: 5.61605E+03
Sample Std. Deviation: 3.48661E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/4/25 8:52:38 AM			5.71400E+03				
2/5/25 8:53:43 AM			5.63700E+03				
2/6/25 11:30:25 AM			5.46100E+03				
2/7/25 10:47:28 AM			5.80600E+03				
2/10/25 11:17:48 AM			5.83000E+03				
2/11/25 9:23:41 AM			5.78900E+03				
2/12/25 6:32:42 PM			5.85700E+03				
2/13/25 8:34:30 AM			5.34000E+03				
2/14/25 6:15:21 PM			5.93800E+03				
2/17/25 9:42:24 AM			6.04600E+03				
2/18/25 12:22:50 PM			5.78300E+03				
2/19/25 5:24:23 PM			5.89100E+03				
2/20/25 10:31:44 AM			5.60900E+03				
2/21/25 8:54:19 AM			5.59700E+03				
2/24/25 9:45:46 AM			5.16400E+03				
2/25/25 8:45:59 AM			5.68200E+03				
2/26/25 9:40:24 AM			5.57700E+03				
2/27/25 10:34:35 AM			5.76000E+03				
2/28/25 9:55:13 AM			5.76800E+03				
3/3/25 9:39:04 AM			5.30600E+03				
3/4/25 10:01:08 AM			5.92000E+03				
3/5/25 9:54:20 AM			5.16000E+03				
3/6/25 9:20:00 AM			5.71600E+03				
3/7/25 9:47:35 AM			5.39300E+03				
3/10/25 10:05:05 AM			5.35000E+03				
3/11/25 12:30:06 PM			5.73500E+03				
3/12/25 1:00:49 PM			5.83700E+03				
3/13/25 9:41:44 AM			4.04100E+03		Ac		
3/14/25 10:41:48 AM			5.36700E+03				
3/17/25 11:18:53 AM			5.82000E+03				
3/18/25 9:58:06 AM			5.93800E+03				
3/19/25 10:42:13 AM			5.28600E+03				
3/20/25 10:30:13 AM			5.74100E+03				
3/21/25 9:43:47 AM			5.53300E+03				
3/24/25 9:47:21 AM			5.91800E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:49:42 AM			5.96100E+03				
3/26/25 9:01:25 AM			5.72100E+03				
3/27/25 3:54:21 PM			5.37100E+03				
3/31/25 11:28:39 AM			5.66300E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\72_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/04/25 8:52:38 AM - 3/31/25 11:28:39 AM
Sample Mean +/- Std Dev : 5616.051 +/- 3.49e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

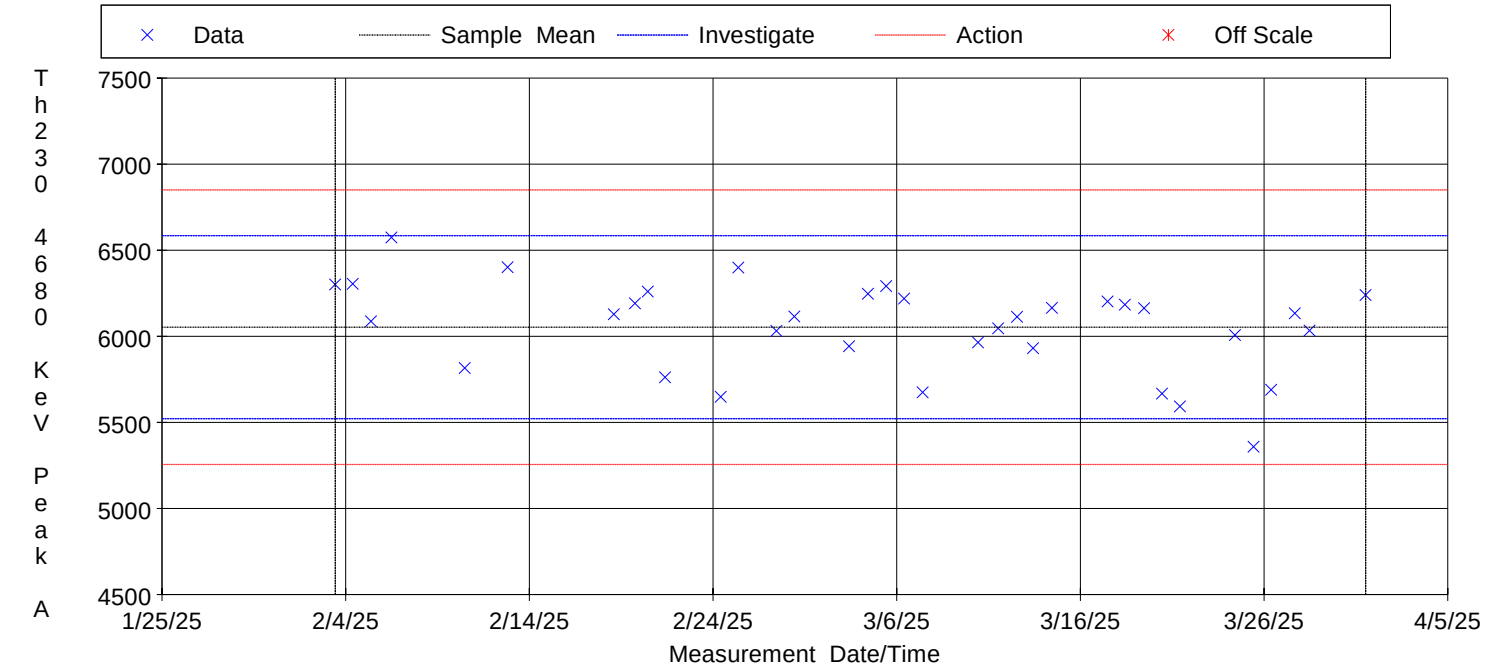
Full Parameter Results Report
4/2/25 11:24:00 AM

QA File: O:\alpha_sp\2025_QAF\4_April\75
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:48:57 AM
Sample End Date: 3/31/25 12:29:29 PM
Sample Mean: 6.05311E+03
Sample Std. Deviation: 2.65791E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:48:57 AM			6.30000E+03				
2/4/25 8:53:04 AM			6.30400E+03				
2/5/25 8:54:13 AM			6.08700E+03				
2/6/25 11:30:37 AM			6.57400E+03				
2/10/25 11:18:00 AM			5.81500E+03				
2/12/25 7:18:14 PM			6.40000E+03				
2/18/25 2:19:15 PM			6.12700E+03				
2/19/25 5:34:17 PM			6.19000E+03				
2/20/25 10:32:07 AM			6.26000E+03				
2/21/25 8:54:36 AM			5.76200E+03				
2/24/25 9:46:01 AM			5.64800E+03				
2/25/25 8:46:03 AM			6.39800E+03				
2/27/25 10:35:14 AM			6.03000E+03				
2/28/25 9:55:44 AM			6.11500E+03				
3/3/25 9:39:07 AM			5.94100E+03				
3/4/25 10:01:32 AM			6.24700E+03				
3/5/25 9:54:33 AM			6.29100E+03				
3/6/25 9:20:17 AM			6.21900E+03				
3/7/25 9:47:46 AM			5.67400E+03				
3/10/25 10:05:22 AM			5.96300E+03				
3/11/25 12:30:22 PM			6.04500E+03				
3/12/25 1:01:09 PM			6.11200E+03				
3/13/25 9:42:05 AM			5.93100E+03				
3/14/25 10:41:52 AM			6.16400E+03				
3/17/25 11:19:06 AM			6.20200E+03				
3/18/25 9:58:17 AM			6.18300E+03				
3/19/25 10:59:13 AM			6.16200E+03				
3/20/25 10:29:04 AM			5.66700E+03				
3/21/25 9:44:04 AM			5.59200E+03				
3/24/25 9:47:45 AM			6.00600E+03				
3/25/25 9:49:57 AM			5.35800E+03		In		
3/26/25 9:01:46 AM			5.68800E+03				
3/27/25 3:45:23 PM			6.13200E+03				
3/28/25 11:02:22 AM			6.03300E+03				
3/31/25 12:29:29 PM			6.23900E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\75_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:48:57 AM - 3/31/25 12:29:29 PM
Sample Mean +/- Std Dev : 6053.114 +/- 2.66e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:24:47 AM

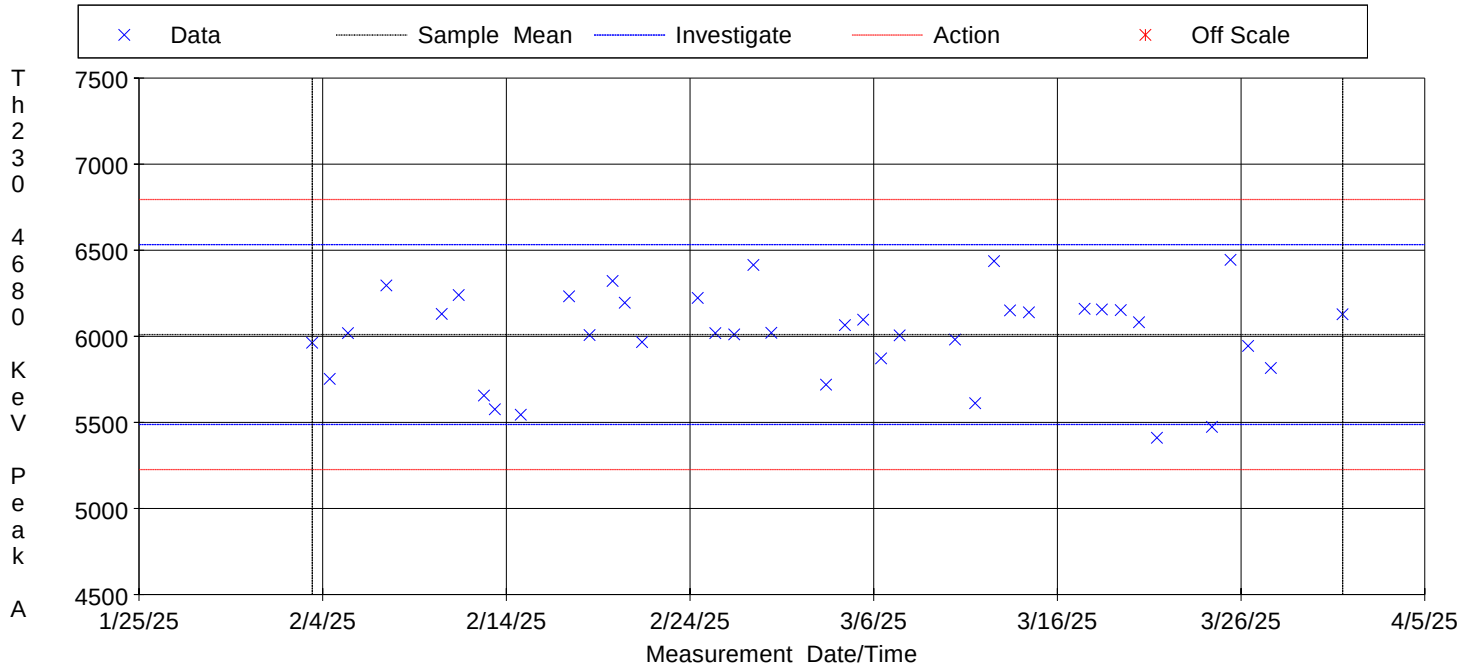
QA File: O:\alpha_sp\2025_QAF\4_April\76
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:49:01 AM
Sample End Date: 3/31/25 12:29:30 PM
Sample Mean: 6.01010E+03
Sample Std. Deviation: 2.61251E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:49:01 AM			5.96200E+03				
2/4/25 8:53:08 AM			5.75100E+03				
2/5/25 8:54:15 AM			6.01700E+03				
2/7/25 10:47:50 AM			6.29400E+03				
2/10/25 11:18:05 AM			6.13000E+03				
2/11/25 9:24:09 AM			6.23800E+03				
2/12/25 6:32:45 PM			5.65600E+03				
2/13/25 8:34:38 AM			5.57500E+03				
2/14/25 6:48:26 PM			5.54300E+03				
2/17/25 9:42:43 AM			6.23200E+03				
2/18/25 12:23:00 PM			6.00600E+03				
2/19/25 6:29:53 PM			6.32100E+03				
2/20/25 10:32:09 AM			6.19400E+03				
2/21/25 8:54:38 AM			5.96600E+03				
2/24/25 9:46:07 AM			6.22200E+03				
2/25/25 8:46:07 AM			6.01700E+03				
2/26/25 9:41:00 AM			6.01000E+03				
2/27/25 10:35:18 AM			6.41400E+03				
2/28/25 9:55:49 AM			6.02000E+03				
3/3/25 9:39:10 AM			5.71900E+03				
3/4/25 10:01:37 AM			6.06400E+03				
3/5/25 9:54:37 AM			6.09600E+03				
3/6/25 9:20:21 AM			5.87100E+03				
3/7/25 9:47:49 AM			6.00500E+03				
3/10/25 10:05:26 AM			5.98000E+03				
3/11/25 12:30:26 PM			5.61000E+03				
3/12/25 1:01:11 PM			6.43500E+03				
3/13/25 9:42:08 AM			6.14900E+03				
3/14/25 10:41:56 AM			6.13800E+03				
3/17/25 11:19:09 AM			6.15800E+03				
3/18/25 9:58:21 AM			6.15600E+03				
3/19/25 10:42:36 AM			6.15200E+03				
3/20/25 10:29:08 AM			6.08100E+03				
3/21/25 9:44:07 AM			5.40900E+03	In			
3/24/25 9:47:51 AM			5.47300E+03	In			

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:50:05 AM			6.44400E+03				
3/26/25 9:01:50 AM			5.94300E+03				
3/27/25 2:31:36 PM			5.81500E+03				
3/31/25 12:29:30 PM			6.12800E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\76_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:49:01 AM - 3/31/25 12:29:30 PM
Sample Mean +/- Std Dev : 6010.103 +/- 2.61e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:25:40 AM

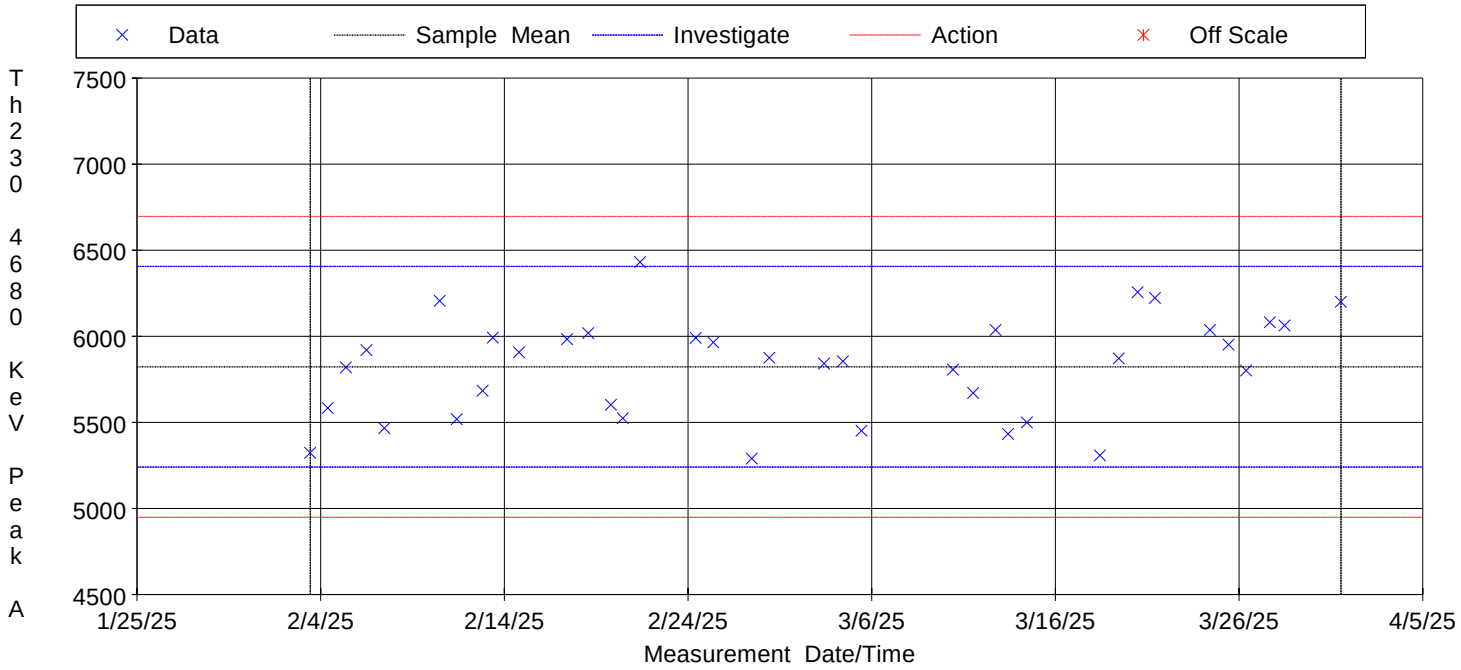
QA File: O:\alpha_sp\2025_QAF\4_April\77
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:49:06 AM
Sample End Date: 3/31/25 12:47:42 PM
Sample Mean: 5.82319E+03
Sample Std. Deviation: 2.91223E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:49:06 AM			5.32200E+03				
2/4/25 8:53:43 AM			5.58200E+03				
2/5/25 8:54:19 AM			5.81800E+03				
2/6/25 11:30:45 AM			5.91900E+03				
2/7/25 10:48:06 AM			5.46500E+03				
2/10/25 11:18:10 AM			6.20500E+03				
2/11/25 9:24:14 AM			5.51800E+03				
2/12/25 7:15:19 PM			5.68300E+03				
2/13/25 8:34:54 AM			5.99100E+03				
2/14/25 6:54:13 PM			5.90700E+03				
2/17/25 9:42:58 AM			5.98200E+03				
2/18/25 1:30:10 PM			6.01800E+03				
2/19/25 7:04:34 PM			5.60200E+03				
2/20/25 10:32:33 AM			5.52300E+03				
2/21/25 8:54:52 AM			6.43000E+03		In		
2/24/25 9:46:32 AM			5.99000E+03				
2/25/25 8:46:12 AM			5.96300E+03				
2/27/25 10:57:58 AM			5.28900E+03				
2/28/25 9:55:53 AM			5.87400E+03				
3/3/25 9:39:27 AM			5.84200E+03				
3/4/25 10:01:57 AM			5.85400E+03				
3/5/25 10:26:59 AM			5.45100E+03				
3/10/25 10:06:13 AM			5.80500E+03				
3/11/25 12:30:56 PM			5.67000E+03				
3/12/25 5:34:27 PM			6.03600E+03				
3/13/25 9:42:21 AM			5.43300E+03				
3/14/25 10:42:09 AM			5.50000E+03				
3/18/25 9:58:25 AM			5.30800E+03				
3/19/25 10:42:41 AM			5.87100E+03				
3/20/25 11:02:22 AM			6.25600E+03				
3/21/25 9:44:18 AM			6.22200E+03				
3/24/25 9:48:04 AM			6.03600E+03				
3/25/25 9:50:28 AM			5.95000E+03				
3/26/25 9:03:24 AM			5.80000E+03				
3/27/25 3:57:32 PM			6.08100E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/28/25 11:03:05 AM			6.06300E+03				
3/31/25 12:47:42 PM			6.19900E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\77_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:49:06 AM - 3/31/25 12:47:42 PM
Sample Mean +/- Std Dev : 5823.189 +/- 2.91e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:27:07 AM

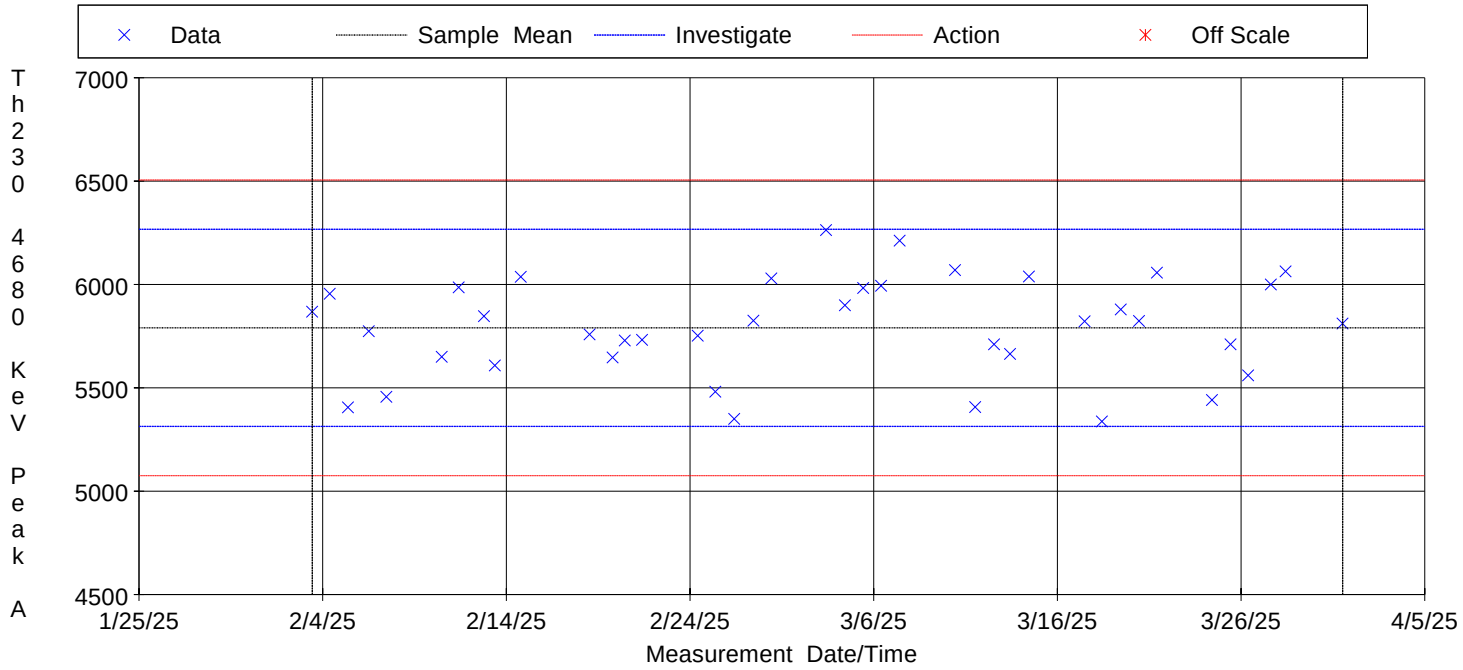
QA File: O:\alpha_sp\2025_QAF\4_April\78
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:49:10 AM
Sample End Date: 3/31/25 12:30:58 PM
Sample Mean: 5.79020E+03
Sample Std. Deviation: 2.38330E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:49:10 AM			5.86700E+03				
2/4/25 8:53:48 AM			5.95500E+03				
2/5/25 8:54:23 AM			5.40500E+03				
2/6/25 12:07:39 PM			5.77300E+03				
2/7/25 10:48:09 AM			5.45600E+03				
2/10/25 11:18:18 AM			5.64900E+03				
2/11/25 9:24:19 AM			5.98600E+03				
2/12/25 6:32:48 PM			5.84600E+03				
2/13/25 8:34:58 AM			5.60700E+03				
2/14/25 6:48:31 PM			6.03700E+03				
2/18/25 12:23:06 PM			5.75700E+03				
2/19/25 6:29:57 PM			5.64600E+03				
2/20/25 10:32:36 AM			5.72900E+03				
2/21/25 8:55:06 AM			5.73200E+03				
2/24/25 9:46:36 AM			5.75100E+03				
2/25/25 8:46:16 AM			5.48100E+03				
2/26/25 9:41:23 AM			5.34900E+03				
2/27/25 10:36:02 AM			5.82400E+03				
2/28/25 9:55:58 AM			6.02900E+03				
3/3/25 9:39:31 AM			6.26300E+03				
3/4/25 10:02:00 AM			5.89800E+03				
3/5/25 9:55:09 AM			5.98200E+03				
3/6/25 9:20:43 AM			5.99300E+03				
3/7/25 9:48:11 AM			6.21100E+03				
3/10/25 10:06:18 AM			6.06900E+03				
3/11/25 12:30:59 PM			5.40600E+03				
3/12/25 1:01:18 PM			5.71000E+03				
3/13/25 9:42:26 AM			5.66300E+03				
3/14/25 10:42:12 AM			6.03800E+03				
3/17/25 11:19:37 AM			5.82100E+03				
3/18/25 9:58:31 AM			5.33600E+03				
3/19/25 10:42:45 AM			5.87900E+03				
3/20/25 10:30:31 AM			5.82200E+03				
3/21/25 9:44:34 AM			6.05700E+03				
3/24/25 9:48:16 AM			5.44000E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/25/25 9:50:43 AM			5.70900E+03				
3/26/25 9:03:41 AM			5.56000E+03				
3/27/25 2:31:40 PM			5.99900E+03				
3/28/25 9:49:26 AM			6.06200E+03				
3/31/25 12:30:58 PM			5.81100E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\78_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:49:10 AM - 3/31/25 12:30:58 PM
Sample Mean +/- Std Dev : 5790.200 +/- 2.38e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

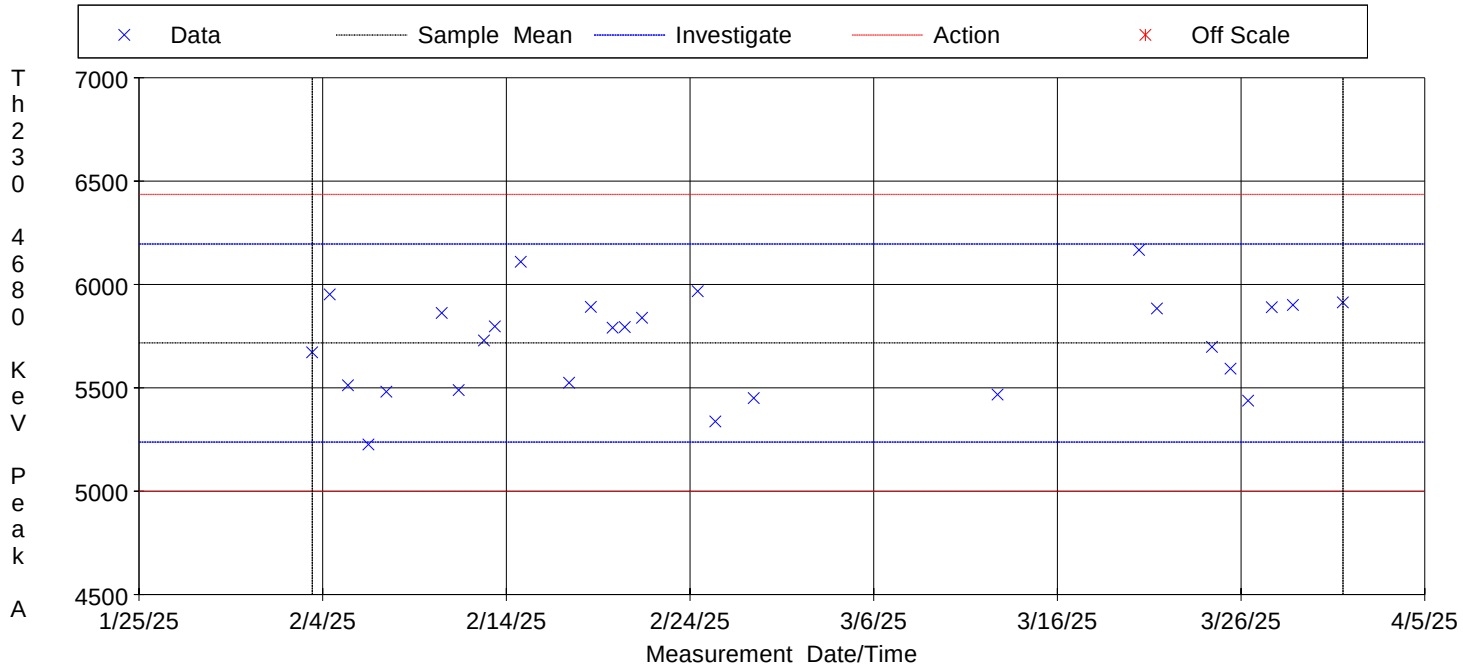
Full Parameter Results Report
4/2/25 11:27:59 AM

QA File: O:\alpha_sp\2025_QAF\4_April\79
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:49:29 AM
Sample End Date: 3/31/25 12:43:01 PM
Sample Mean: 5.71693E+03
Sample Std. Deviation: 2.39368E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:49:29 AM			5.67100E+03				
2/4/25 8:54:04 AM			5.95100E+03				
2/5/25 8:54:39 AM			5.51100E+03				
2/6/25 11:30:53 AM			5.22600E+03		In		
2/7/25 10:48:12 AM			5.48000E+03				
2/10/25 11:18:21 AM			5.86200E+03				
2/11/25 9:24:23 AM			5.48900E+03				
2/12/25 6:32:50 PM			5.72800E+03				
2/13/25 8:35:11 AM			5.79600E+03				
2/14/25 6:48:33 PM			6.10900E+03				
2/17/25 9:43:16 AM			5.52400E+03				
2/18/25 1:59:47 PM			5.89100E+03				
2/19/25 6:29:59 PM			5.79100E+03				
2/20/25 10:32:39 AM			5.79300E+03				
2/21/25 8:55:30 AM			5.83900E+03				
2/24/25 9:46:55 AM			5.96600E+03				
2/25/25 8:46:28 AM			5.33600E+03				
2/27/25 10:58:45 AM			5.44900E+03				
3/12/25 5:27:03 PM			5.46700E+03				
3/20/25 10:29:34 AM			6.16600E+03				
3/21/25 9:46:11 AM			5.88300E+03				
3/24/25 9:48:43 AM			5.69800E+03				
3/25/25 9:51:16 AM			5.59200E+03				
3/26/25 9:04:17 AM			5.43700E+03				
3/27/25 3:47:58 PM			5.89000E+03				
3/28/25 7:32:32 PM			5.90000E+03				
3/31/25 12:43:01 PM			5.91200E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
UD = User Driven N-Sigma Test (In = Investigate, Ac = Action)
BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\79_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:49:29 AM - 3/31/25 12:43:01 PM
Sample Mean +/- Std Dev : 5716.926 +/- 2.39e+002

****
***** G E N I E Q U A L I T Y A S S U R A N C E *****
****

Full Parameter Results Report
4/2/25 11:28:55 AM

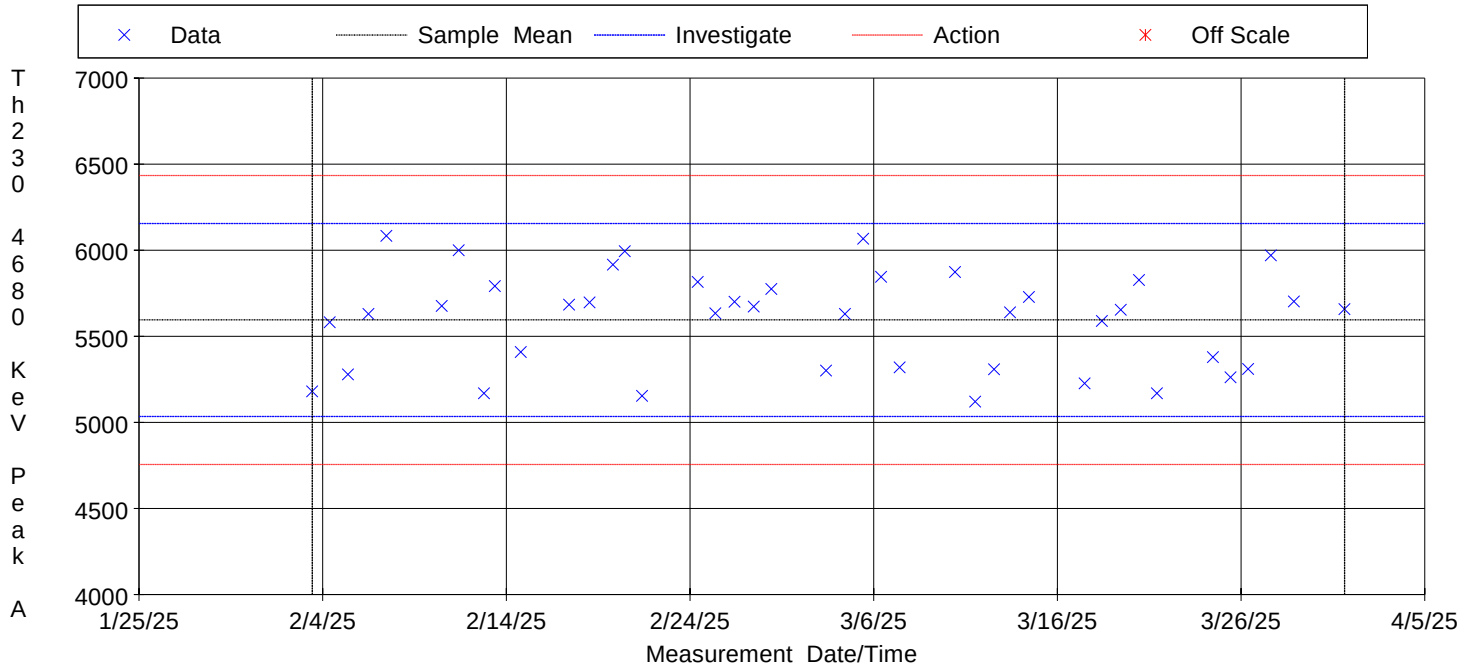
QA File: O:\alpha_sp\2025_QAF\4_April\80
Description: Th230 4680 KeV Peak Area
Parameter Units: counts
Parameter Type: Peak Search

Sample Start Date: 2/3/25 9:49:32 AM
Sample End Date: 3/31/25 2:56:47 PM
Sample Mean: 5.59493E+03
Sample Std. Deviation: 2.79998E+02

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
2/3/25 9:49:32 AM			5.17900E+03				
2/4/25 8:54:07 AM			5.58000E+03				
2/5/25 8:54:44 AM			5.27800E+03				
2/6/25 11:30:56 AM			5.62900E+03				
2/7/25 10:48:18 AM			6.08200E+03				
2/10/25 11:18:29 AM			5.67500E+03				
2/11/25 9:24:27 AM			6.00000E+03				
2/12/25 6:32:52 PM			5.16900E+03				
2/13/25 8:35:14 AM			5.79000E+03				
2/14/25 6:48:35 PM			5.40800E+03				
2/17/25 9:43:19 AM			5.68400E+03				
2/18/25 12:23:20 PM			5.69700E+03				
2/19/25 7:11:32 PM			5.91600E+03				
2/20/25 10:32:43 AM			5.99300E+03				
2/21/25 8:55:35 AM			5.15400E+03				
2/24/25 9:46:58 AM			5.81500E+03				
2/25/25 8:46:30 AM			5.63200E+03				
2/26/25 9:42:24 AM			5.70000E+03				
2/27/25 10:59:13 AM			5.67200E+03				
2/28/25 9:56:16 AM			5.77500E+03				
3/3/25 9:40:07 AM			5.30100E+03				
3/4/25 10:02:36 AM			5.63000E+03				
3/5/25 9:55:34 AM			6.06600E+03				
3/6/25 9:21:22 AM			5.84500E+03				
3/7/25 9:48:18 AM			5.31800E+03				
3/10/25 10:06:59 AM			5.87300E+03				
3/11/25 12:31:10 PM			5.11900E+03				
3/12/25 1:01:32 PM			5.30700E+03				
3/13/25 9:42:56 AM			5.63900E+03				
3/14/25 10:42:35 AM			5.72700E+03				
3/17/25 11:19:52 AM			5.22500E+03				
3/18/25 9:59:01 AM			5.58800E+03				
3/19/25 10:42:55 AM			5.65400E+03				
3/20/25 10:29:38 AM			5.82700E+03				
3/21/25 9:46:16 AM			5.16900E+03				

Measurement Time	Sample ID	Analyst	Value (counts)	Flags LU	SD	UD	BS
3/24/25 10:48:09 AM			5.37900E+03				
3/25/25 9:51:23 AM			5.26100E+03				
3/26/25 9:04:22 AM			5.30900E+03				
3/27/25 2:31:47 PM			5.96900E+03				
3/28/25 8:59:16 PM			5.70100E+03				
3/31/25 2:56:47 PM			5.65700E+03				

Flags Key: LU = Lower/Upper Bounds Test (Ab = Above, Be = Below)
SD = Sample Driven N-Sigma Test (In = Investigate, Ac = Action)
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BS = Measurement Bias Test (In = Investigate, Ac = Action)



QA Filename : O:\alpha_sp\2025_QAF\4_April\80_APR_2025.QAF
Parameter Description : Th230 4680 KeV Peak Area (counts)
Selection Dates : 2/03/25 9:49:32 AM - 3/31/25 2:56:47 PM
Sample Mean +/- Std Dev : 5594.927 +/- 2.80e+002

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address: Haley & Aldrich - Phoenix, 400 E Van Buren St. #545, Phoenix, AZ

Billing Information: Attn Accounts Payable, 70 Blanchard Rd Suite 204, Burlington, MA 01803

Report to: Samantha Kaney 602-760-2441

Email To: skaney@haleyaldrich.com

Project Description: ESI - Env Sampling

City/State Collected: Missouri

Please Circle: PT MT (CT) ET

Phone:

Client Project # 0213103-000

Lab Project #

Collected by (print): S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified) ___ Same Day X Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122

Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1835561

G162

Acctnum:

Template:

Prelogin:

PM:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Hexavalent Chromium - SW7196A	Mercury - SW 7471B	Total Metals - SW6010B	Radium 226 & 228 - EPA 903/904	Sulfate Anions - SW-846 9056A	Remarks	Sample # (lab only)
Clinton-School-Ditch-S-So	Comp	SS	0-1	3/11/25	0810	3	X	X	X	X	X		-01
18-901-S-So	Comp	SS	0-1	3/11/25	0900	3	X	X	X	X	X		-02
K-18-S-So	Comp	SS	0-1	3/11/25	0940	3	X	X	X	X	X		-03
P-230-S-So	Comp	SS	0-1	3/11/25	1025	3	X	X	X	X	X		-04
P-350-S-So	Comp	SS	0-1	3/11/25	1055	3	X	X	X	X	X		-05
NHR-S-So	Comp	SS	0-1	3/11/25	1135	3	X	X	X	X	X		-06
Fly Ash-S-So	Grab	SS*	0-1	3/11/25	1508	3	X	X	X	X	X		-07

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Splits - no rush on rad - *fly ash*

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS X FedEx __ Courier __ _____

Tracking # 4439 2938 8594

Sample Receipt Checklist

COC Seal Present/Intact:	NP X Y ___ N
COC Signed/Accurate:	___ Y ___ N
Bottles arrive intact:	___ Y ___ N
Correct bottles used:	X Y ___ N
Sufficient volume sent:	X Y ___ N
If Applicable	
VOA Zero Headspace:	___ Y ___ N
Preservation Correct/Checked:	___ Y X N
RAD Screen <0.5 mR/hr:	X Y ___ N

	Date:	Time:		
Relinquished by: (Signature)	3/11/25	1735	Received by: (Signature)	Fed Ex
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	

Trip Blank Received: Yes / (No) HCL / MeoH TBR

Temp: GA 13.4 °C Bottles Received: 21

Date: 3/12/25 Time: 900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

3/13 L1835560/L1835561 HALALDPAZ

R5

Time estimate: oh **Time spent:** oh

Members

Hailey Robertson (responsible) DR Daphne Richards

Due on *17 March 2025 8:00 AM* for target *Done*

- [ ] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Custody seal not intact
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [x] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Hailey Robertson *13 March 2025 10:08 AM*

Received ID: MONTROSE-LAKE-S-SO (3/11/25 @ 1330) not listed on the COC.

Daphne Richards *13 March 2025 2:50 PM*

Add to L1835560

Hailey Robertson *13 March 2025 3:02 PM*

Added

ANALYTICAL REPORT

April 03, 2025

Revised Report

Haley & Aldrich-Phoenix, AZ

Sample Delivery Group:	L1835568
Samples Received:	03/12/2025
Project Number:	0213103-000
Description:	ESI-Env. Sampling

Report To: Samantha Kaney
400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Entire Report Reviewed By:

Daphne R Richards

Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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L1835568-04 03/15/25 15:06 LOGBAL1 17

L1835568-05 03/15/25 15:06 LOGBAL1 18

L1835568-06 03/15/25 15:06 LOGBAL1 19

L1835568-07 03/15/25 15:06 LOGBAL1 20

L1835568-08 03/15/25 15:06 LOGBAL1 21

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DUP(R4187083-3) WG2469635 03/15/25 15:06 LOGBAL1 26

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CLINTON-SCHOOL-DITCH-I-SO L1835568-01 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 08:10 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:53	PAN	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2469425	1	03/16/25 16:13	03/17/25 04:41	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2470003	1	03/17/25 19:35	03/18/25 01:41	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470127	1	03/17/25 17:20	03/19/25 17:10	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 12:06	DJS	Mt. Juliet, TN

18-901-I-SO L1835568-02 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 09:00 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:53	PAN	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2470186	1	03/17/25 11:32	03/17/25 20:21	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2470003	1	03/17/25 19:35	03/18/25 01:57	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470127	1	03/17/25 17:20	03/19/25 17:13	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 12:08	DJS	Mt. Juliet, TN

K-18-I-SO L1835568-03 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 09:40 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:53	PAN	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2470186	1	03/17/25 11:32	03/17/25 20:31	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2470003	1	03/17/25 19:35	03/18/25 02:13	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470127	1	03/17/25 17:20	03/19/25 17:16	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 12:10	DJS	Mt. Juliet, TN

P-230-I-SO L1835568-04 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 10:25 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:54	PAN	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2470186	1	03/17/25 11:32	03/17/25 20:40	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2470003	1	03/17/25 19:35	03/18/25 02:29	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470127	1	03/17/25 17:20	03/19/25 17:18	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 12:15	DJS	Mt. Juliet, TN

P-350-I-SO L1835568-05 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 10:55 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:54	PAN	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2470186	1	03/17/25 11:32	03/17/25 20:50	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2470003	1	03/17/25 19:35	03/18/25 02:45	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470127	1	03/17/25 17:20	03/19/25 17:32	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 12:16	DJS	Mt. Juliet, TN

NHR-I-SO L1835568-06 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 11:35 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:55	PAN	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2470186	1	03/17/25 11:32	03/17/25 21:00	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2470003	1	03/17/25 19:35	03/18/25 03:01	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470127	1	03/17/25 17:20	03/19/25 17:35	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 12:18	DJS	Mt. Juliet, TN

DUP-SO-031125 L1835568-07 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 17:00 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:56	PAN	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2470186	1	03/17/25 11:32	03/17/25 21:19	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2470003	1	03/17/25 19:35	03/18/25 03:48	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470127	1	03/17/25 17:20	03/19/25 17:38	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 12:20	DJS	Mt. Juliet, TN

FLYASH-I-SO L1835568-08 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 15:08 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:56	PAN	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2470186	1	03/17/25 11:32	03/17/25 21:28	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2470003	100	03/17/25 19:35	03/18/25 04:04	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470127	1	03/17/25 17:20	03/19/25 17:40	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 12:21	DJS	Mt. Juliet, TN

MONTROSE-LAKE-I-SO L1835568-09 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 13:30 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2467844	1	03/15/25 12:00	03/17/25 12:56	PAN	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2470186	1	03/17/25 11:32	03/17/25 22:38	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2470003	1	03/17/25 19:35	03/18/25 05:08	DLH	Mt. Juliet, TN
Mercury by Method 7471B	WG2470127	1	03/17/25 17:20	03/19/25 17:43	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2469957	1	03/16/25 22:43	03/17/25 12:23	DJS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

Report Revision History

Level II Report - Version 1: 03/20/25 08:47
Level IV Report - Version 2: 03/20/25 09:15
Level II Report - Version 3: 04/03/25 10:17

Project Narrative

Selenium added

2540 G-2011 Total Solids

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-I-SO

Lab Sample ID:	L1835568-01	**SDG:**	L1835568
Client Sample ID:	CLINTON-SCHOOL-DITCH-I-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	12	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.833 g
Total Solids (%):	67.2	**Final Wt/Vol:**	7.032 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	67.2	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-02	**SDG:**	L1835568
Client Sample ID:	18-901-I-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	13	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	11.928 g
Total Solids (%):	68.9	**Final Wt/Vol:**	8.623 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	68.9	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-03	**SDG:**	L1835568
Client Sample ID:	K-18-I-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	04	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	10.193 g
Total Solids (%):	65.5	**Final Wt/Vol:**	7.117 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	65.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-04	**SDG:**	L1835568
Client Sample ID:	P-230-I-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	05	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.588 g
Total Solids (%):	65.5	**Final Wt/Vol:**	6.722 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	65.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-05	**SDG:**	L1835568
Client Sample ID:	P-350-I-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	06	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	8.996 g
Total Solids (%):	68.2	**Final Wt/Vol:**	6.539 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	68.2	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-06	**SDG:**	L1835568
Client Sample ID:	NHR-I-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	07	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	10.708 g
Total Solids (%):	83.1	**Final Wt/Vol:**	9.115 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	83.1	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DUP-SO-031125

Lab Sample ID:	L1835568-07	**SDG:**	L1835568
Client Sample ID:	DUP-SO-031125	**Collected Date/Time:**	03/11/25 17:00
Lab File ID:	08	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	9.209 g
Total Solids (%):	69.8	**Final Wt/Vol:**	6.816 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	69.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-08	**SDG:**	L1835568
Client Sample ID:	FLYASH-I-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	09	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	9.811 g
Total Solids (%):	58.9	**Final Wt/Vol:**	6.307 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	58.9	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SO

Lab Sample ID:	L1835568-09	**SDG:**	L1835568
Client Sample ID:	MONTROSE-LAKE-I-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	10	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.136 g
Total Solids (%):	71.2	**Final Wt/Vol:**	6.873 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	71.2	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187078-1	**SDG:**	L1835568
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:30
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.286 g
Total Solids (%):		**Final Wt/Vol:**	1.287 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.00100	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187083-1	**SDG:**	L1835568
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:45
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.285 g
Total Solids (%):		**Final Wt/Vol:**	1.285 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.000	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187078-3	**SDG:**	L1835568
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	02	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	4.565 g
Total Solids (%):	64.8	**Final Wt/Vol:**	3.35 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	62.9	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187083-3	**SDG:**	L1835568
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	02	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:45
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	9.501 g
Total Solids (%):	65.5	**Final Wt/Vol:**	6.609 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	64.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187078-2	**SDG:**	L1835568
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:30
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.296 g
Total Solids (%):		**Final Wt/Vol:**	6.298 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187083-2	**SDG:**	L1835568
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:45
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.281 g
Total Solids (%):		**Final Wt/Vol:**	6.282 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SDG:	L1835568	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL1	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2469634

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.00100	

SDG:	L1835568	**Calibration (begin) date/time:**	
Instrument ID:	LOGBAL1	**Calibration (end) date/time:**	
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2469635

Sample ID:	**BLANK Result**	**BLANK Qual**
File ID:	01	
Analyte	%	
TOTAL SOLIDS	0.000	

DUP Sample / File ID:	R4187078-3 / 02	**SDG:**	L1835568
OS Sample / File ID:	L1835560-04 / 07	**Analytical Batch:**	WG2469634
Instrument ID:	LOGBAL1	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	64.8	62.9	3.04	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187083-3 / 02	**SDG:**	L1835568
OS Sample / File ID:	L1835568-04 / 05	**Analytical Batch:**	WG2469635
Instrument ID:	LOGBAL1	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	65.5	64.8	1.07	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835568-01,02

SAMPLE NO.:
R4187078-2

LCS Sample / File ID:	R4187078-2 / 03	**SDG:**	L1835568
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2469634
Instrument ID:	LOGBAL1	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835568-03,04,05,06,07,08,09

SAMPLE NO.:
R4187083-2

LCS Sample / File ID:	R4187083-2 / 03	**SDG:**	L1835568
LCSD Sample / File ID:		**Analytical Batch:**	WG2469635
Instrument ID:	LOGBAL1	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs:	L1835568-01,02,03,04,05,06,07,08,09	**Analytical Method:**	2540 G-2011
Matrix:	Solid	**Prep Method:**	SM 2540 G

Analyte	CAS	Wavelength	Mass	MDL	RDL
				%	%
Total Solids	TSOLIDS				

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL1	**Calibration Start Date:**	_____
Analytical Run:	WG2469634	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4187078-1	01	03/15/25 14:45	1	WG2469634
DUP	R4187078-3	02	03/15/25 14:45	1	WG2469634
LCS	R4187078-2	03	03/15/25 14:45	1	WG2469634
OS	L1835560-04	07	03/15/25 14:45		
18-901-I-SO	L1835568-02	13	03/15/25 14:45	1	WG2469634
CLINTON-SCHOOL-DITCH-I-SO	L1835568-01	12	03/15/25 14:45	1	WG2469634

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL1	**Calibration Start Date:**	_____
Analytical Run:	WG2469635	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4187083-1	01	03/15/25 15:06	1	WG2469635
DUP	R4187083-3	02	03/15/25 15:06	1	WG2469635
LCS	R4187083-2	03	03/15/25 15:06	1	WG2469635
K-18-I-SO	L1835568-03	04	03/15/25 15:06	1	WG2469635
P-350-I-SO	L1835568-05	06	03/15/25 15:06	1	WG2469635
P-230-I-SO	L1835568-04	05	03/15/25 15:06	1	WG2469635
DUP-SO-031125	L1835568-07	08	03/15/25 15:06	1	WG2469635
NHR-I-SO	L1835568-06	07	03/15/25 15:06	1	WG2469635
FLYASH-I-SO	L1835568-08	09	03/15/25 15:06	1	WG2469635
MONTROSE-LAKE-I-SO	L1835568-09	10	03/15/25 15:06	1	WG2469635

Total Solids WetChem Prep Benchsheet

Batch: WG2469634

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835095	WG2469547	BJM688	PREPREPBAL4	14-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25

Analyst: MT3521 **Prep Start Date/Time:** 03/15/25 14:30-14:32 **Prep End Date/Time:** 03/17/25 09:27 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL1 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				BB1	1.286	1.286	1.286	1.287	0.001	0.001	99.999						JAV213	03/20/25 13:38:44
LCS				BB2	1.294	11.296	6.296	6.298	0.002	50.03	49.97	100.06	99.94				JAV213	03/20/25 13:38:44
DUP(L1835560-04)				BB3	1.294	4.565	3.348	3.350	0.002	62.8554	37.1446			3.04	5.37		JAV213	03/20/25 13:38:44
1. L1835095-05	SS	OR	02/27/25 13:12	BB4	1.282	6.942	6.514	6.514	0	92.4382	7.5618					0314PP4	JAV213	03/20/25 13:38:44
2. L1835095-06	SS	OR	02/27/25 13:35	BB5	1.286	10.157	9.576	9.575	0.001	93.4393	6.5607					0314PP4	JAV213	03/20/25 13:38:44
3. L1835095-07	SS	OR	02/27/25 14:06	BB6	1.290	11.270	7.846	7.846	0	65.6914	34.3086					0314PP4	JAV213	03/20/25 13:38:44
4. L1835560-04	SS	MO	03/11/25 10:25	BB7	1.289	6.729	4.811	4.814	0.003	64.7978	35.2022					0314PP4	JAV213	03/20/25 13:38:44
5. L1835560-05	SS	MO	03/11/25 10:55	BB8	1.283	9.381	6.662	6.664	0.002	66.4485	33.5515					0314PP4	JAV213	03/20/25 13:38:44
6. L1835560-06	SS	MO	03/11/25 11:35	BB9	1.294	9.153	7.628	7.632	0.004	80.6464	19.3536					0314PP4	JAV213	03/20/25 13:38:44
7. L1835560-07	SS	MO	03/11/25 15:08	BB10	1.286	8.724	6.310	6.314	0.004	67.5988	32.4012					0314PP4	JAV213	03/20/25 13:38:44
8. L1835560-08	SS	MO	03/11/25 13:30	BB11	1.287	9.826	7.519	7.522	0.003	73.0179	26.9821					0314PP4	JAV213	03/20/25 13:38:44
9. L1835568-01	SS	MO	03/11/25 08:10	BB12	1.289	9.833	7.029	7.032	0.003	67.2168	32.7832					0314PP4	JAV213	03/20/25 13:38:44
10. L1835568-02	SS	MO	03/11/25 09:00	BB13	1.292	11.928	8.618	8.623	0.005	68.9263	31.0737					0314PP4	JAV213	03/20/25 13:38:44
11. L1838002-01	SS	MO	03/11/25 08:10	BB12	1.289	9.833	7.029	7.032	0.003	67.2168	32.7832					0314PP4	JAV213	03/20/25 13:38:44
12. L1838002-02	SS	MO	03/11/25 09:00	BB13	1.292	11.928	8.618	8.623	0.005	68.9263	31.0737					0314PP4	JAV213	03/20/25 13:38:44
13. L1838018-04	SS	MO	03/11/25 10:25	BB7	1.289	6.729	4.811	4.814	0.003	64.7978	35.2022					0314PP4	JAV213	03/20/25 13:38:44
14. L1838018-05	SS	MO	03/11/25 10:55	BB8	1.283	9.381	6.662	6.664	0.002	66.4485	33.5515					0314PP4	JAV213	03/20/25 13:38:44
15. L1838018-06	SS	MO	03/11/25 11:35	BB9	1.294	9.153	7.628	7.632	0.004	80.6464	19.3536					0314PP4	JAV213	03/20/25 13:38:44
16. L1838018-07	SS	MO	03/11/25 15:08	BB10	1.286	8.724	6.310	6.314	0.004	67.5988	32.4012					0314PP4	JAV213	03/20/25 13:38:44
17. L1838018-08	SS	MO	03/11/25 13:30	BB11	1.287	9.826	7.519	7.522	0.003	73.0179	26.9821					0314PP4	JAV213	03/20/25 13:38:44

Comments:
L1838002-01 Time Added: 03/20/25 09:15:06
L1838002-02 Time Added: 03/20/25 09:15:06
L1838018-05 Time Added: 03/20/25 09:45:27
L1838018-06 Time Added: 03/20/25 09:45:28
L1838018-04 Time Added: 03/20/25 09:45:27
L1838018-07 Time Added: 03/20/25 09:45:28
L1838018-08 Time Added: 03/20/25 09:45:28

Reviewed By:JAV213 on 03/20/25 13:38:44

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/15/25 14:45:23	104	104	03/17/25 07:50:49	104	104	BLANK, LCS, DUP(L1835560-04), L1835095-05, L1838018-08, L1838018-07, L1838018-06, L1838018-05, L1838018-04, L1838002-02, L1838002-01, L1835568-02, L1835568-01, L1835560-08, L1835560-07, L1835560-06, L1835560-05, L1835560-04, L1835095-07, L1835095-06
2	Oven-1hr	03/17/25 07:53:39	104	104	03/17/25 09:22:46	104	104	BLANK, LCS, DUP(L1835560-04), L1835095-05, L1835095-06, L1835095-07, L1835560-04, L1835560-05, L1835560-06, L1835560-07, L1835560-08, L1835568-01, L1835568-02, L1838002-01, L1838002-02, L1838018-04, L1838018-05, L1838018-06, L1838018-07, L1838018-08

Total Solids WetChem Prep Benchsheet

Batch: WG2469635

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25
L1836072	WG2469558	BJM688	PREPREPBAL1	14-MAR-25
L1836179	WG2469443	BJM688	PREPREPBAL1	14-MAR-25

Analyst: MT3521 **Prep Start Date/Time:** 03/15/25 14:45-14:46 **Prep End Date/Time:** 03/17/25 09:31 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL1 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				CC1	1.285	1.285	1.284	1.285	0.001	0	100						JAV213	03/20/25 13:38:54
LCS				CC2	1.280	11.281	6.283	6.282	0.001	50.015	49.985	100.03	99.97				JAV213	03/20/25 13:38:54
DUP(L1835568-04)				CC3	1.284	9.501	6.604	6.609	0.005	64.8047	35.1953			1.07	2	Fri-8/PP1 0314	JAV213	03/20/25 13:38:54
1. L1835568-03	SS	MO	03/11/25 09:40	CC4	1.277	10.193	7.113	7.117	0.004	65.5002	34.4998					0314PP4	JAV213	03/20/25 13:38:54
2. L1835568-04	SS	MO	03/11/25 10:25	CC5	1.280	9.588	6.718	6.722	0.004	65.5031	34.4969						JAV213	03/20/25 13:38:54
3. L1835568-05	SS	MO	03/11/25 10:55	CC6	1.281	8.996	6.536	6.539	0.003	68.1529	31.8471					0314PP4	JAV213	03/20/25 13:38:54
4. L1835568-06	SS	MO	03/11/25 11:35	CC7	1.282	10.708	9.111	9.115	0.004	83.0999	16.9001					0314PP4	JAV213	03/20/25 13:38:54
5. L1835568-07	SS	MO	03/11/25 17:00	CC8	1.283	9.209	6.813	6.816	0.003	69.8082	30.1918					0314PP4	JAV213	03/20/25 13:38:54
6. L1835568-08	SS	MO	03/11/25 15:08	CC9	1.281	9.811	6.304	6.307	0.003	58.9215	41.0785					0314PP4	JAV213	03/20/25 13:38:54
7. L1835568-09	SS	MO	03/11/25 13:30	CC10	1.280	9.136	6.872	6.873	0.001	71.194	28.806					0314PP4	JAV213	03/20/25 13:38:54
8. L1836072-01	SS	NJ	03/13/25 11:00	CC11	1.285	14.342	12.549	12.550	0.001	86.2756	13.7244						JAV213	03/20/25 13:38:54
9. L1836179-01	SS	CA	03/13/25 11:11	CC12	1.281	7.611	6.035	6.039	0.004	75.1659	24.8341					Fri-6/PP1 0314	JAV213	03/20/25 13:38:54
10. L1836179-02	SS	CA	03/13/25 11:23	CC13	1.281	10.223	8.410	8.413	0.003	79.7584	20.2416					Fri-6/PP1 0314	JAV213	03/20/25 13:38:54
11. L1838002-03	SS	MO	03/11/25 09:40	CC4	1.277	10.193	7.113	7.117	0.004	65.5002	34.4998					0314PP4	JAV213	03/20/25 13:38:54
12. L1838002-04	SS	MO	03/11/25 10:25	CC5	1.280	9.588	6.718	6.722	0.004	65.5031	34.4969						JAV213	03/20/25 13:38:54
13. L1838002-05	SS	MO	03/11/25 10:55	CC6	1.281	8.996	6.536	6.539	0.003	68.1529	31.8471					0314PP4	JAV213	03/20/25 13:38:54
14. L1838002-06	SS	MO	03/11/25 11:35	CC7	1.282	10.708	9.111	9.115	0.004	83.0999	16.9001					0314PP4	JAV213	03/20/25 13:38:54
15. L1838002-07	SS	MO	03/11/25 17:00	CC8	1.283	9.209	6.813	6.816	0.003	69.8082	30.1918					0314PP4	JAV213	03/20/25 13:38:54
16. L1838002-08	SS	MO	03/11/25 15:08	CC9	1.281	9.811	6.304	6.307	0.003	58.9215	41.0785					0314PP4	JAV213	03/20/25 13:38:54
17. L1838002-09	SS	MO	03/11/25 13:30	CC10	1.280	9.136	6.872	6.873	0.001	71.194	28.806					0314PP4	JAV213	03/20/25 13:38:54

Comments:
L1838002-03 Time Added: 03/20/25 09:15:06
L1838002-05 Time Added: 03/20/25 09:15:07
L1838002-04 Time Added: 03/20/25 09:15:06
L1838002-07 Time Added: 03/20/25 09:15:07
L1838002-06 Time Added: 03/20/25 09:15:07
L1838002-08 Time Added: 03/20/25 09:15:07
L1838002-09 Time Added: 03/20/25 09:15:07

Reviewed By:JAV213 on 03/20/25 13:38:54

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/15/25 15:06:34	104	104	03/17/25 07:53:53	104	104	BLANK, LCS, DUP(L1835568-04), L1835568-03, L1838002-09, L1838002-08, L1838002-07, L1838002-06, L1838002-05, L1838002-04, L1838002-03, L1836179-02, L1836179-01, L1836072-01, L1835568-09, L1835568-08, L1835568-07, L1835568-06, L1835568-05, L1835568-04
2	Oven-1hr	03/17/25 07:58:14	104	104	03/17/25 09:27:47	104	104	BLANK, LCS, DUP(L1835568-04), L1835568-03, L1835568-04, L1835568-05, L1835568-06, L1835568-07, L1835568-08, L1835568-09, L1836072-01, L1836179-01, L1836179-02, L1838002-03, L1838002-04, L1838002-05, L1838002-06, L1838002-07, L1838002-08, L1838002-09

3060A/7196A Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-I-SO

Lab Sample ID:	L1835568-01	**SDG:**	L1835568
Client Sample ID:	CLINTON-SCHOOL-DITCH-I-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250317125300	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:53
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5163 g
Total Solids (%):	67.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.12	2.98

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
18-901-I-SO

Lab Sample ID:	L1835568-02	**SDG:**	L1835568
Client Sample ID:	18-901-I-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	20250317125316	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:53
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.6772 g
Total Solids (%):	68.9	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.09	2.90

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-03	**SDG:**	L1835568
Client Sample ID:	K-18-I-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	20250317125351	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:53
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4339 g
Total Solids (%):	65.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.15	3.05

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-04	**SDG:**	L1835568
Client Sample ID:	P-230-I-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	20250317125417	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:54
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5219 g
Total Solids (%):	65.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.15	3.05

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-05	**SDG:**	L1835568
Client Sample ID:	P-350-I-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	20250317125434	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:54
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4573 g
Total Solids (%):	68.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.10	2.93

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
NHR-I-SO

Lab Sample ID:	L1835568-06	**SDG:**	L1835568
Client Sample ID:	NHR-I-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125514	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:55
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4633 g
Total Solids (%):	83.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.904	2.41

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DUP-SO-031125

Lab Sample ID:	L1835568-07	**SDG:**	L1835568
Client Sample ID:	DUP-SO-031125	**Collected Date/Time:**	03/11/25 17:00
Lab File ID:	20250317125633	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:56
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4112 g
Total Solids (%):	69.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.08	2.86

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-08	**SDG:**	L1835568
Client Sample ID:	FLYASH-I-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	20250317125649	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:56
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4753 g
Total Solids (%):	58.9	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.27	3.39

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SO

Lab Sample ID:	L1835568-09	**SDG:**	L1835568
Client Sample ID:	MONTROSE-LAKE-I-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	20250317125657	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:56
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.6825 g
Total Solids (%):	71.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		1.05	2.81

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-1	**SDG:**	L1835568
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250317124404	**Received Date/Time:**	_____
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:44
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4222 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-3	**SDG:**	L1835568
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	20250317124631	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:46
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4416 g
Total Solids (%):	67.3	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	1.56	J	1.12	2.97

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-2	**SDG:**	L1835568
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250317124412	**Received Date/Time:**	_____
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:44
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4413 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	26.5		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-8	**SDG:**	L1835568
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125556	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:55
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4605 g
Total Solids (%):	83.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.904	2.41

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-5	**SDG:**	L1835568
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125104	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:51
Dilution Factor:	50	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4358 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	304	J6	46.6	124

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-6	**SDG:**	L1835568
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125114	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:51
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4279 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6	0.931	2.48

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-7	**SDG:**	L1835568
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125154	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:51
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4128 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U	J6	0.931	2.48

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187196-4	**SDG:**	L1835568
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317125050	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/15/25 12:00
Analytical Batch:	WG2467844	**Analysis Date/Time:**	03/17/25 12:50
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4553 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	1.77	J O1	0.931	2.48

2-IN

CALIBRATION VERIFICATION

SDG:	L1835568	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844
Concentration Units:	mg/L		

		ICV				CCV				CCV			
Sample ID:		DR6000-3031725124355				DR6000-3031725124813				DR6000-3031725125016			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20.50	21.03798	103		20.50	20.99705	102		20.50	20.99705	102	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835568	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844
Concentration Units:	mg/L		

		CCV				CCV				CCV			
Sample ID:		DR6000-3031725125243				DR6000-3031725125444				DR6000-3031725125714			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20.50	20.87426	102		20.50	20.95612	102		20.50	20.87426	102	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1835568	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250317124404		20250317124822		20250317125023		20250317125251	
Analyte	mg/kg		mg/L		mg/L		mg/L	
CHROMIUM,HEXAVALENT	U		-0.002000		-0.001000		0.0000	

SDG:	L1835568	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250317125451		20250317125721	
Analyte	mg/L		mg/L	
CHROMIUM,HEXAVALENT	0.0000		0.001000	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835568-01,02,03,04,05,06,07,08,09

SAMPLE NO.: R4187196-5

MS Sample / File ID:	R4187196-5 / 20250317125104	**SDG:**	L1835568
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2467844
OS Sample / File ID:	L1835560-06 / 20250317125031	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	818	U	304		37.2*		50	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835568-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4187196-6
R4187196-7

MS Sample / File ID:	R4187196-6 / 20250317125114	**SDG:**	L1835568
MSD Sample / File ID:	R4187196-7 / 20250317125154	**Analytical Batch:**	WG2467844
OS Sample / File ID:	L1835560-06 / 20250317125031	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	24.8	U	U	U	0.000*	0.000*	1	75.0 - 125	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1835568-01,02,03,04,05,06,07,08,09

SAMPLE NO.: R4187196-4

PS Sample / File ID:	R4187196-4 / 20250317125050	**SDG:**	L1835568
OS Sample / File ID:	L1835560-06 / 20250317125031	**Analytical Batch:**	WG2467844
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	31.0	U	1.77		5.70*		1	75.0 - 125	*	

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187196-3 / 20250317124631	**SDG:**	L1835568
OS Sample / File ID:	L1834664-10 / 20250317124602	**Analytical Batch:**	WG2467844
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	1.65	1.56	5.68	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187196-8 / 20250317125556	**SDG:**	L1835568
OS Sample / File ID:	L1835568-06 / 20250317125514	**Analytical Batch:**	WG2467844
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835568-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4187196-2

LCS Sample / File ID:	R4187196-2 / 20250317124412	**SDG:**	L1835568
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467844
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Chromium,Hexavalent	24.0	26.5		110		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835568-01,02,03,04,05,06,07,08,09 **Analytical Method:** 3060A/7196A

Matrix: Solid **Prep Method:** 3060A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Chromium,Hexavalent	18540-29-9			0.7510	2

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	_____
Analytical Run:	WG2420318	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0	50	12/19/24 15:00		
CAL	.01	51	12/19/24 15:00		
CAL	.02	52	12/19/24 15:00		
CAL	.05	53	12/19/24 15:00		
CAL	.1	54	12/19/24 15:00		
CAL	.5	55	12/19/24 15:00		
CAL	1	56	12/19/24 15:00		

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	12/19/24 15:00
Analytical Run:	WG2467844	**Calibration End Date:**	12/19/24 15:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-3031725124355	20250317124355	03/17/25 12:43		
BLANK	R4187196-1	20250317124404	03/17/25 12:44	1	WG2467844
LCS	R4187196-2	20250317124412	03/17/25 12:44	1	WG2467844
OS	L1834664-10	20250317124602	03/17/25 12:46		
L1834664-10	L1834664-10	20250317124602	03/17/25 12:46	1	WG2467844
DUP	R4187196-3	20250317124631	03/17/25 12:46	1	WG2467844
L1834664-11	L1834664-11	20250317124640	03/17/25 12:46	1	WG2467844
L1835388-02	L1835388-02	20250317124706	03/17/25 12:47	10	WG2467844
L1835560-01	L1835560-01	20250317124734	03/17/25 12:47	1	WG2467844
CCV	DR6000-3031725124813	20250317124813	03/17/25 12:48		
CCB	DR6000-3031725124822	20250317124822	03/17/25 12:48		
CCV	DR6000-3031725125016	20250317125016	03/17/25 12:50		
CCB	DR6000-3031725125023	20250317125023	03/17/25 12:50		
OS	L1835560-06	20250317125031	03/17/25 12:50		
L1835560-06	L1835560-06	20250317125031	03/17/25 12:50	1	WG2467844
PS	R4187196-4	20250317125050	03/17/25 12:50	1	WG2467844
MS	R4187196-5	20250317125104	03/17/25 12:51	50	WG2467844
MS	R4187196-6	20250317125114	03/17/25 12:51	1	WG2467844
MSD	R4187196-7	20250317125154	03/17/25 12:51	1	WG2467844
L1835560-07	L1835560-07	20250317125215	03/17/25 12:52	1	WG2467844
L1835560-08	L1835560-08	20250317125223	03/17/25 12:52	1	WG2467844
CCV	DR6000-3031725125243	20250317125243	03/17/25 12:52		
CCB	DR6000-3031725125251	20250317125251	03/17/25 12:52		
CLINTON-SCHOOL-DITCH-I-SO	L1835568-01	20250317125300	03/17/25 12:53	1	WG2467844
18-901-I-SO	L1835568-02	20250317125316	03/17/25 12:53	1	WG2467844
K-18-I-SO	L1835568-03	20250317125351	03/17/25 12:53	1	WG2467844
P-230-I-SO	L1835568-04	20250317125417	03/17/25 12:54	1	WG2467844
P-350-I-SO	L1835568-05	20250317125434	03/17/25 12:54	1	WG2467844
CCV	DR6000-3031725125444	20250317125444	03/17/25 12:54		
CCB	DR6000-3031725125451	20250317125451	03/17/25 12:54		
NHR-I-SO	L1835568-06	20250317125514	03/17/25 12:55	1	WG2467844
DUP	R4187196-8	20250317125556	03/17/25 12:55	1	WG2467844
DUP-SO-031125	L1835568-07	20250317125633	03/17/25 12:56	1	WG2467844
FLYASH-I-SO	L1835568-08	20250317125649	03/17/25 12:56	1	WG2467844
MONTROSE-LAKE-I-SO	L1835568-09	20250317125657	03/17/25 12:56	1	WG2467844
CCV	DR6000-3031725125714	20250317125714	03/17/25 12:57		
CCB	DR6000-3031725125721	20250317125721	03/17/25 12:57		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.01	.007658858	76.60	0.02	.018552278	92.80
File ID:		51			52	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.05	.047964512	95.90	0.10	.094806218	94.80
File ID:		53			54	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.50	.529453676	106	1	.984798632	98.50
File ID:		55			56	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1835568	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2467844

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CHROMIUM,HEXAVALENT	0	5	0.999332			1.089342	-0.003235	

Calibration Type

0 = Linear Regression

Weightage

5 = None

Created: 12/19/24 15:26

Instrument: DR6000-3

Calibration Date: 12/19/24 15:00

Program Name: CR6 SS 12/19/2024 ARV4164

Wavelength: 540.0 nm

Analytical Method: 7196A SS

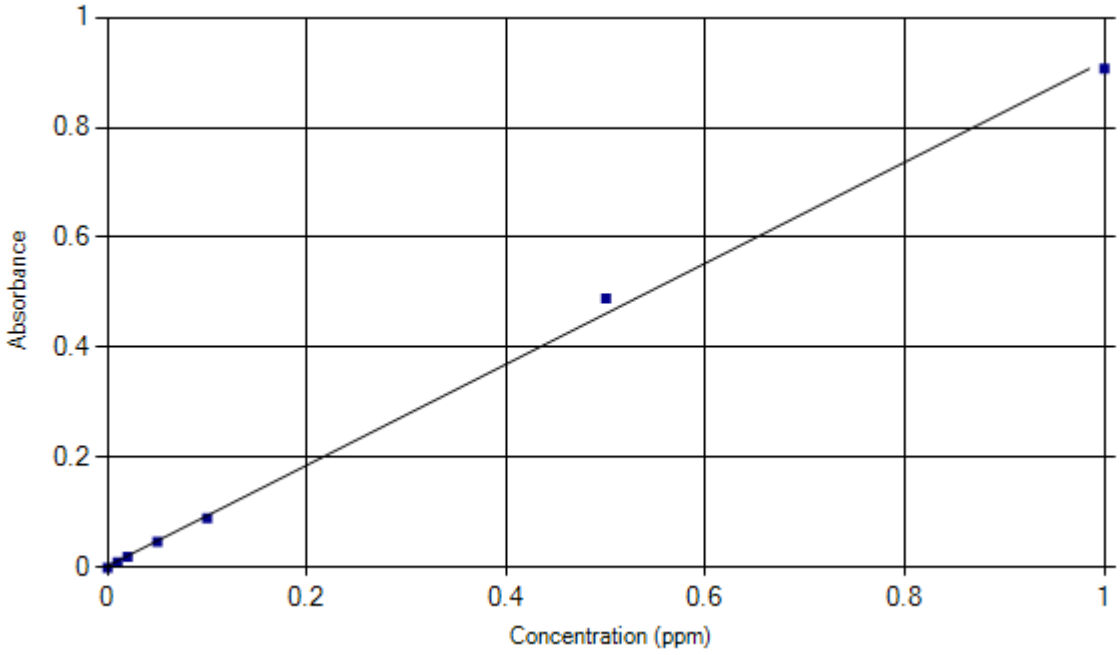
Analyte: CR6

Calibration Equation: Concentration = -0.003234562 + 1.089342 * Absorbance

Standard ID: 24L19163

ppm	Absorbance
0	0
0.01	0.01
0.02	0.02
0.05	0.047
0.1	0.090
0.5	0.489
1	0.907

R = 0.9993323



Instrument: DR6000-3

Created: 03/17/25 13:00

Serial Number: 1894098

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/17/25 12:43:55	CR6	CR6 SS 12/19/2024 ARV4164	ICV	1	0.514	mg/L	0.475
03/17/25 12:44:04	CR6	CR6 SS 12/19/2024 ARV4164	BLANK WG2467844	1	-0.002	mg/L	0.001
03/17/25 12:44:12	CR6	CR6 SS 12/19/2024 ARV4164	LCS WG2467844	1	0.646	mg/L	0.596
03/17/25 12:46:02	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-10 WG2467844	1	0.081	mg/L	0.077
03/17/25 12:46:22	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-10-SB WG2467844	1	0.054	mg/L	0.052
03/17/25 12:46:31	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1834664-10 WG2467844	1	0.080	mg/L	0.076
03/17/25 12:46:40	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-11 WG2467844	1	0.072	mg/L	0.068
03/17/25 12:46:49	CR6	CR6 SS 12/19/2024 ARV4164	L1834664-11-SB WG2467844	1	0.069	mg/L	0.067
03/17/25 12:47:06	CR6	CR6 SS 12/19/2024 ARV4164	L1835388-02 WG2467844	10.000	0.5167	mg/L	0.477
03/17/25 12:47:15	CR6	CR6 SS 12/19/2024 ARV4164	L1835388-02-SB WG2467844	10.000	-0.0044	mg/L	-0.001
03/17/25 12:47:34	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-01 WG2467844	1	0.039	mg/L	0.039
03/17/25 12:48:13	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.513	mg/L	0.473
03/17/25 12:48:22	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.002	mg/L	0.001
03/17/25 12:48:31	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-01-SB WG2467844	1	0.040	mg/L	0.040
03/17/25 12:49:01	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-02 WG2467844	1	0.031	mg/L	0.031
03/17/25 12:49:10	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-02-SB WG2467844	1	0.033	mg/L	0.033
03/17/25 12:49:18	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-03 WG2467844	1	0.137	mg/L	0.128
03/17/25 12:49:28	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-03-SB WG2467844	1	0.143	mg/L	0.134
03/17/25 12:49:37	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-04 WG2467844	1	0.163	mg/L	0.152
03/17/25 12:49:45	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-04-SB WG2467844	1	0.162	mg/L	0.151
03/17/25 12:49:53	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-05 WG2467844	1	0.110	mg/L	0.103
03/17/25 12:50:02	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-05-SB WG2467844	1	0.128	mg/L	0.120
03/17/25 12:50:16	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.513	mg/L	0.474
03/17/25 12:50:23	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.001	mg/L	0.002
03/17/25 12:50:31	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-06 WG2467844	1	0.081	mg/L	0.077
03/17/25 12:50:41	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-06-SB WG2467844	1	0.077	mg/L	0.073
03/17/25 12:50:50	CR6	CR6 SS 12/19/2024 ARV4164	PS L1835560-06 WG2467844	1	0.112	mg/L	0.105
03/17/25 12:51:04	CR6	CR6 SS 12/19/2024 ARV4164	IMS L1835560-06 WG2467844	50.000	0.11956	mg/L	0.113
03/17/25 12:51:14	CR6	CR6 SS 12/19/2024 ARV4164	MS L1835560-06 WG2467844	1	0.087	mg/L	0.083
03/17/25 12:51:54	CR6	CR6 SS 12/19/2024 ARV4164	MSD L1835560-06 WG2467844	1	0.089	mg/L	0.084
03/17/25 12:52:15	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-07 WG2467844	1	0.001	mg/L	0.004
03/17/25 12:52:23	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-08 WG2467844	1	0.023	mg/L	0.024
03/17/25 12:52:31	CR6	CR6 SS 12/19/2024 ARV4164	L1835560-08-SB WG2467844	1	0.023	mg/L	0.024
03/17/25 12:52:43	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.510	mg/L	0.471
03/17/25 12:52:51	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	0.000	mg/L	0.002
03/17/25 12:53:00	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-01 WG2467844	1	0.047	mg/L	0.046
03/17/25 12:53:08	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-01-SB WG2467844	1	0.045	mg/L	0.044
03/17/25 12:53:16	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-02 WG2467844	1	0.088	mg/L	0.084
03/17/25 12:53:25	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-02-SB WG2467844	1	0.099	mg/L	0.094

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/17/25 12:53:51	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-03 WG2467844	1	0.087	mg/L	0.083
03/17/25 12:54:06	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-03-SB WG2467844	1	0.095	mg/L	0.090
03/17/25 12:54:17	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-04 WG2467844	1	0.037	mg/L	0.037
03/17/25 12:54:25	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-04-SB WG2467844	1	0.042	mg/L	0.041
03/17/25 12:54:34	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-05 WG2467844	1	0.082	mg/L	0.078
03/17/25 12:54:44	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.512	mg/L	0.473
03/17/25 12:54:51	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	0.000	mg/L	0.003
03/17/25 12:55:01	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-05-SB WG2467844	1	0.086	mg/L	0.082
03/17/25 12:55:14	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-06 WG2467844	1	0.099	mg/L	0.094
03/17/25 12:55:25	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-06-SB WG2467844	1	0.109	mg/L	0.103
03/17/25 12:55:56	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1835568-06 WG2467844	1	0.100	mg/L	0.095
03/17/25 12:56:33	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-07 WG2467844	1	0.070	mg/L	0.067
03/17/25 12:56:41	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-07-SB WG2467844	1	0.072	mg/L	0.069
03/17/25 12:56:49	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-08 WG2467844	1	0.001	mg/L	0.003
03/17/25 12:56:57	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-09 WG2467844	1	0.017	mg/L	0.018
03/17/25 12:57:05	CR6	CR6 SS 12/19/2024 ARV4164	L1835568-09-SB WG2467844	1	0.015	mg/L	0.017
03/17/25 12:57:14	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.510	mg/L	0.471
03/17/25 12:57:21	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	0.001	mg/L	0.004

CR6 SS WetChem Prep Benchsheet

Batch: WG2467844

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25

Analyst: DLS4135 **Prep Start Date/Time:** 03/15/25 12:00 **Prep End Date/Time:** 03/17/25 11:50 **Dig Start Date/Time:** 03/15/25 15:53:00
Dig End Date/Time: 03/15/25 18:24:00 **Dig Start Analyst:** DLS4135 **Dig End Analyst:** DLS4135 **Digest Soln. pH:** 13.13 **Phosphate Buffer pH:** 6.66
SOP: MTJL-0153 **Method:** 3060A **Balance ID:** WETBAL9 **1mL Auto Pipette SN:** VU32730 **0.5mL/1mL Auto Pipette Tips Lot#:** 25010044 **ThermoID:** 1053718
ThermoCorrectFact: -0.5 **ThermoPosition/Temp1(C°)/Temp2(C°):** C4/91.3/93.7 **10mL Pipette Lot #:** NA **Transfer Pipette Lot#:** 24500406 **Filter Lot#:** 329076081
pH Strip Lot#: 10BDH40241 **Tongue Depressor Lot#:** P00638 **0.5mL Auto Pipette S/N:** NA **1mL glass pipette Lot#:** NA **Cuvette Lot#:** NA
Cal and Stds Workgroup: NA **Hotblock ID:** 2021CECW5460 **Centrifuge Tube Lot#:** 25009600 **10mL Syringe Lot#:** 241125 **IR Gun ID:** CP52532
Thermometer Location: C4 **Tmer SN:** 240243854

ICV Standard: 25C17479 Amt. Used: 5 mL Exp. Date:03/18/25 **LCS/D Standard:** 25C17470 Amt. Used: 6 mL Exp. Date:03/18/25
MS/D Standard: 25C17470 Amt. Used: 5 mL Exp. Date:03/18/25 **Post spike:** 25C17470 Amt. Used: 0.60 mL Exp. Date:03/18/25
Digestion Solution: 25C15308 Amt. Used: 50 mL Exp. Date:09/15/25 **5N HNO3:** 25B18331 Amt. Used: 3 Exp. Date:07/07/25
Phosphate Buffer: 25B18330 Amt. Used: 0.50 mL Exp. Date:04/03/25 **H2SO4:** 25B20586 Amt. Used: 3 Exp. Date:08/20/25
Color Reagent: 25C13008 Amt. Used: 0.50 mL Exp. Date:03/20/25 **PbCrO4:** 25A21864 Amt. Used: 0.01 g Exp. Date:01/01/34
Sand: 25A29129 Amt. Used: 2.50 g Exp. Date:07/29/25 **MgCl2:** 25A31532 Amt. Used: 0.40 g Exp. Date:07/31/25
Acetone: 25B26662 Amt. Used: 0.50 mL Exp. Date:08/26/25

Sample Number	Initial Sample Wt. (g)	Final Volume (mL)	Dilution Factor	Adjusted pH	Review Analyst	Review Date
ICV	2.4432	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
BLANK	2.4222	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
LCS	2.4413	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
1. L1834664-10	2.4266	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
2. L1834664-11	2.4561	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
3. L1835388-02	2.5269	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
4. L1835560-01	2.4465	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
5. L1835560-02	2.5207	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
6. L1835560-03	2.6053	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
7. L1835560-04	2.4293	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
8. L1835560-05	2.6062	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
9. L1835560-06	2.4553	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
10. L1835560-07	2.4352	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
11. L1835560-08	2.4388	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
12. L1835568-01	2.5163	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
13. L1835568-02	2.6772	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
14. L1835568-03	2.4339	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
15. L1835568-04	2.5219	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
16. L1835568-05	2.4573	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
17. L1835568-06	2.4633	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
18. L1835568-07	2.4112	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
19. L1835568-08	2.4753	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
20. L1835568-09	2.6825	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
DUP(L1834664-10)	2.4416	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
DUP(L1835568-06)	2.4605	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
MS(L1835560-06)	2.4279	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
MSD(L1835560-06)	2.4128	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00
Ins MS(L1835560-06)	2.4358	100	1	1.5-2.5	PAN4313	03/17/25 12:34:00

Comments:

Reviewed By:PAN4313 on 03/17/25 12:34:00

#	Type	Thermometer	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	IR Gun 1	1053718	-0.6	03/15/25 15:23:07	91.3	90.7	03/15/25 15:53:32	93.7	93.1	ICV, BLANK, LCS, L1834664-10, L1835568-09, L1835568-08, L1835568-07, L1835568-06, L1835568-05, L1835568-04, L1835568-03, L1835568-02, L1835568-01, L1835560-08, L1835560-07, L1835560-06, L1835560-05, L1835560-04, L1835560-03, L1835560-02, L1835560-01, L1835388-02, L1834664-11, DUP(L1834664-10), DUP(L1835568-06), MS(L1835560-06), MSD(L1835560-06), Ins MS(L1835560-06)
2	IR Gun 1	1053718	-0.6	03/15/25 15:53:25	93.7	93.1	03/15/25 16:24:47	95.0	94.4	ICV, BLANK, LCS, L1834664-10, L1834664-11, L1835388-02, L1835560-01, L1835560-02, L1835560-03, L1835560-04, L1835560-05, L1835560-06, L1835560-07, L1835560-08, L1835568-01, L1835568-02, L1835568-03, L1835568-04, L1835568-05, L1835568-06, L1835568-07, L1835568-08, L1835568-09, DUP(L1834664-10), DUP(L1835568-06), MS(L1835560-06), MSD(L1835560-06), Ins MS(L1835560-06)

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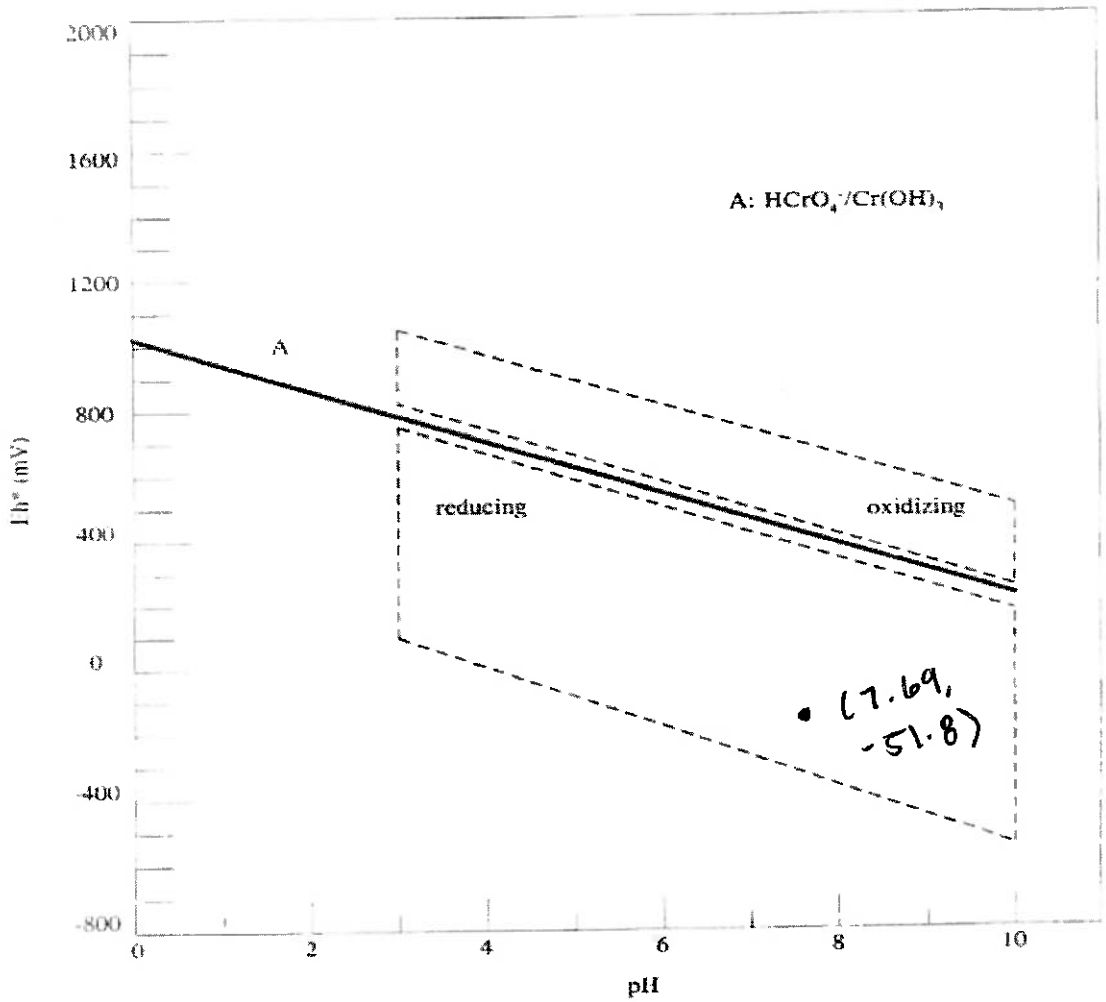
STANDARD OPERATING PROCEDURE
TITLE: ENV-SOP-MTJL-0153 Hexavalent Chromium (colorimetric) in Solid Material (EPA Methods 7196A and 3060A)
ISSUER: Pace National – Mt. Juliet, Tennessee

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PAN4313
03/17/25

Attachment III: Eh/pH Phase Diagram

The dashed lines define Eh-pH boundaries commonly encountered in soils and sediments



* Note the Eh values plotted on this diagram are corrected for the reference electrode voltage: 244 mV units must be added to the measured value when a separate calomel electrode is used, or 199 mV units must be added if a combination platinum electrode is used

WG2467844
L1835560-06

pH = 7.69
mV = -51.8

6010D Metals (ICP)

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-I-SO

Lab Sample ID:	L1835568-01	**SDG:**	L1835568
Client Sample ID:	CLINTON-SCHOOL-DITCH-I-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250317120640	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 12:06
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):	67.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.43	J	1.25	2.98
Barium	7440-39-3	66.1		0.126	0.744
Boron	7440-42-8	U		6.69	29.8
Cadmium	7440-43-9	0.340	J	0.0971	0.744
Chromium	7440-47-3	12.3		0.318	1.49
Cobalt	7440-48-4	6.24		0.263	1.49
Lead	7439-92-1	24.8		0.485	0.744
Lithium	7439-93-2	7.54		0.603	7.44
Selenium	7782-49-2	U		1.59	2.98
Silver	7440-22-4	U		0.189	1.49

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-02	**SDG:**	L1835568
Client Sample ID:	18-901-I-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	20250317120820	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 12:08
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	68.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	3.78		1.21	2.90
Barium	7440-39-3	125		0.123	0.725
Boron	7440-42-8	U		6.53	29.0
Cadmium	7440-43-9	0.222	J	0.0947	0.725
Chromium	7440-47-3	16.6		0.310	1.45
Cobalt	7440-48-4	8.45		0.257	1.45
Lead	7439-92-1	21.5		0.473	0.725
Lithium	7439-93-2	9.51		0.588	7.25
Selenium	7782-49-2	U		1.55	2.90
Silver	7440-22-4	0.302	J	0.184	1.45

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-03	**SDG:**	L1835568
Client Sample ID:	K-18-I-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	20250317121001	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 12:10
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):	65.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	4.72		1.28	3.05
Barium	7440-39-3	140		0.130	0.763
Boron	7440-42-8	U		6.87	30.5
Cadmium	7440-43-9	0.408	J	0.0997	0.763
Chromium	7440-47-3	20.7		0.327	1.53
Cobalt	7440-48-4	10.7		0.270	1.53
Lead	7439-92-1	53.0		0.498	0.763
Lithium	7439-93-2	10.3		0.618	7.63
Selenium	7782-49-2	U		1.63	3.05
Silver	7440-22-4	0.706	J	0.194	1.53

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-04	**SDG:**	L1835568
Client Sample ID:	P-230-I-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	20250317121504	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 12:15
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	65.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	7.26		1.28	3.05
Barium	7440-39-3	181		0.130	0.763
Boron	7440-42-8	U		6.87	30.5
Cadmium	7440-43-9	0.448	J	0.0997	0.763
Chromium	7440-47-3	27.3		0.327	1.53
Cobalt	7440-48-4	18.0		0.270	1.53
Lead	7439-92-1	39.1		0.498	0.763
Lithium	7439-93-2	12.4		0.618	7.63
Selenium	7782-49-2	U		1.63	3.05
Silver	7440-22-4	0.866	J	0.194	1.53

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-05	**SDG:**	L1835568
Client Sample ID:	P-350-I-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	20250317121644	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 12:16
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	68.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	4.01		1.23	2.93
Barium	7440-39-3	152		0.125	0.734
Boron	7440-42-8	U		6.60	29.3
Cadmium	7440-43-9	0.435	J	0.0958	0.734
Chromium	7440-47-3	13.5		0.314	1.47
Cobalt	7440-48-4	6.27		0.260	1.47
Lead	7439-92-1	27.0		0.478	0.734
Lithium	7439-93-2	8.40		0.594	7.34
Selenium	7782-49-2	U		1.57	2.93
Silver	7440-22-4	U		0.186	1.47

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-06	**SDG:**	L1835568
Client Sample ID:	NHR-I-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250317121825	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 12:18
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	83.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	3.89		1.01	2.41
Barium	7440-39-3	140		0.102	0.602
Boron	7440-42-8	11.3	J	5.42	24.1
Cadmium	7440-43-9	2.18		0.0786	0.602
Chromium	7440-47-3	12.2		0.258	1.20
Cobalt	7440-48-4	6.62		0.213	1.20
Lead	7439-92-1	42.3		0.392	0.602
Lithium	7439-93-2	7.42		0.487	6.02
Selenium	7782-49-2	U		1.29	2.41
Silver	7440-22-4	U		0.153	1.20

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DUP-SO-031125

Lab Sample ID:	L1835568-07	**SDG:**	L1835568
Client Sample ID:	DUP-SO-031125	**Collected Date/Time:**	03/11/25 17:00
Lab File ID:	20250317122006	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 12:20
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	69.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	4.79		1.20	2.86
Barium	7440-39-3	125		0.122	0.716
Boron	7440-42-8	U		6.45	28.6
Cadmium	7440-43-9	0.118	J	0.0935	0.716
Chromium	7440-47-3	21.7		0.307	1.43
Cobalt	7440-48-4	11.5		0.254	1.43
Lead	7439-92-1	21.0		0.467	0.716
Lithium	7439-93-2	14.8		0.580	7.16
Selenium	7782-49-2	U		1.53	2.86
Silver	7440-22-4	0.429	J	0.182	1.43

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-08	**SDG:**	L1835568
Client Sample ID:	FLYASH-I-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	20250317122146	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 12:21
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	58.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	12.7		1.42	3.39
Barium	7440-39-3	2950		0.144	0.849
Boron	7440-42-8	388		7.64	33.9
Cadmium	7440-43-9	0.914		0.111	0.849
Chromium	7440-47-3	46.4		0.363	1.70
Cobalt	7440-48-4	23.2		0.300	1.70
Lead	7439-92-1	27.8		0.553	0.849
Lithium	7439-93-2	31.2		0.687	8.49
Selenium	7782-49-2	U		1.82	3.39
Silver	7440-22-4	0.289	J	0.216	1.70

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SO

Lab Sample ID:	L1835568-09	**SDG:**	L1835568
Client Sample ID:	MONTROSE-LAKE-I-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	20250317122327	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 12:23
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	71.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	8.76		1.18	2.81
Barium	7440-39-3	142		0.119	0.702
Boron	7440-42-8	U		6.32	28.1
Cadmium	7440-43-9	0.969		0.0917	0.702
Chromium	7440-47-3	18.0		0.301	1.40
Cobalt	7440-48-4	17.3		0.249	1.40
Lead	7439-92-1	26.1		0.458	0.702
Lithium	7439-93-2	8.29		0.569	7.02
Selenium	7782-49-2	U		1.50	2.81
Silver	7440-22-4	0.816	J	0.178	1.40

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187254-1	**SDG:**	L1835568
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250317113449	**Received Date/Time:**	
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:42
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:34
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		0.837	2.00
Barium	7440-39-3	U		0.0850	0.500
Boron	7440-42-8	U		4.50	20.0
Cadmium	7440-43-9	U		0.0653	0.500
Chromium	7440-47-3	U		0.214	1.00
Cobalt	7440-48-4	U		0.177	1.00
Lead	7439-92-1	U		0.326	0.500
Lithium	7439-93-2	U		0.405	5.00
Selenium	7782-49-2	U		1.07	2.00
Silver	7440-22-4	U		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187254-2	**SDG:**	L1835568
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250317113630	**Received Date/Time:**	_____
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:42
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:36
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	113		0.837	2.00
Barium	7440-39-3	102		0.0850	0.500
Boron	7440-42-8	102		4.50	20.0
Cadmium	7440-43-9	111		0.0653	0.500
Chromium	7440-47-3	101		0.214	1.00
Cobalt	7440-48-4	99.0		0.177	1.00
Lead	7439-92-1	106		0.326	0.500
Lithium	7439-93-2	95.4		0.405	5.00
Selenium	7782-49-2	112		1.07	2.00
Silver	7440-22-4	19.8		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187254-5	**SDG:**	L1835568
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 09:20
Lab File ID:	20250317114312	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:43
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	98.6		0.837	2.00
Barium	7440-39-3	238		0.0850	0.500
Boron	7440-42-8	95.4		4.50	20.0
Cadmium	7440-43-9	93.0		0.0653	0.500
Chromium	7440-47-3	101		0.214	1.00
Cobalt	7440-48-4	113		0.177	1.00
Lead	7439-92-1	134		0.326	0.500
Lithium	7439-93-2	119		0.405	5.00
Selenium	7782-49-2	88.4		1.07	2.00
Silver	7440-22-4	18.4		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187254-6	**SDG:**	L1835568
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 09:20
Lab File ID:	20250317114452	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:44
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.54 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	96.7		0.837	2.00
Barium	7440-39-3	240		0.0850	0.500
Boron	7440-42-8	93.2		4.50	20.0
Cadmium	7440-43-9	90.6		0.0653	0.500
Chromium	7440-47-3	99.0		0.214	1.00
Cobalt	7440-48-4	111		0.177	1.00
Lead	7439-92-1	134		0.326	0.500
Lithium	7439-93-2	120		0.405	5.00
Selenium	7782-49-2	85.2		1.07	2.00
Silver	7440-22-4	18.2		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187254-4	**SDG:**	L1835568
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 09:20
Lab File ID:	20250317114132	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:41
Dilution Factor:	1	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	105		0.837	2.00
Barium	7440-39-3	232		0.0850	0.500
Boron	7440-42-8	101		4.50	20.0
Cadmium	7440-43-9	97.1		0.0653	0.500
Chromium	7440-47-3	105		0.214	1.00
Cobalt	7440-48-4	118		0.177	1.00
Lead	7439-92-1	139		0.326	0.500
Lithium	7439-93-2	124		0.405	5.00
Selenium	7782-49-2	95.3		1.07	2.00
Silver	7440-22-4	19.5		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187254-3	**SDG:**	L1835568
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 09:20
Lab File ID:	20250317113951	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/16/25 22:43
Analytical Batch:	WG2469957	**Analysis Date/Time:**	03/17/25 11:39
Dilution Factor:	5	**Prep Method:**	3050B
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	5.75	J	4.19	10.0
Barium	7440-39-3	143		0.425	2.50
Boron	7440-42-8	U		22.5	100
Cadmium	7440-43-9	0.555	J	0.327	2.50
Chromium	7440-47-3	10.6		1.07	5.00
Cobalt	7440-48-4	9.88		0.885	5.00
Lead	7439-92-1	28.3		1.63	2.50
Lithium	7439-93-2	19.1	J	2.03	25.0
Selenium	7782-49-2	U		5.35	10.0
Silver	7440-22-4	U		0.635	5.00

CALIBRATION VERIFICATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16
Concentration Units:	mg/l		

		ICV				ICVLL				CCV		
Sample ID:		ICP160317250544				ICP160317250559				ICP160317251131		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.026874	103	0.950000	0.01	0.009668983	96.70	65.100000	1	1.088466	109	0.088800
BARIUM	1	0.9985948	99.90	0.560000	0.0050	0.005075451	102	4.940000	0.50	0.5067253	101	0.481000
BORON	1	0.9788266	97.90	0.591000	0.20	0.2007582	100	2.120000	1	1.031407	103	0.050700
CADMIUM	1	1.029184	103	1.010000	0.0020	0.00227067	114	13.100000	0.50	0.5343441	107	0.633000
CHROMIUM	1	0.9789612	97.90	0.566000	0.01	0.0112524	113	8.900000	1	1.004599	100	0.197000
COBALT	1	0.9512029	95.10	0.817000	0.01	0.01026739	103	3.750000	1	0.9884408	98.80	0.103000
LEAD	1	1.013596	101	0.464000	0.0050	0.005175568	104	59.100000	0.50	0.5208368	104	0.767000
LITHIUM	1	0.9109842	91.10	0.957000	0.0150	0.01688436	113	41.800000	1	0.9792755	97.90	1.480000
SELENIUM	1	1.002359	100	0.959000	0.01	0.01063927	106	75.100000	1	1.099469	110	0.407000
SILVER	1	0.9870163	98.70	0.465000	0.0050	0.005253756	105	14.700000	0.50	0.5266057	105	0.403000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16
Concentration Units:	mg/l		

		CCV				**CCV**				**CCV**		
Sample ID:		ICP160317251151				ICP160317251211				ICP160317251228		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.076992	108	1.910000	1	1.077934	108	0.654000	1	1.087871	109	1.370000
BARIUM	0.50	0.5036869	101	0.415000	0.50	0.5071542	101	0.365000	0.50	0.5092537	102	0.248000
BORON	1	1.024206	102	0.819000	1	1.027036	103	0.098000	1	1.02551	103	0.406000
CADMIUM	0.50	0.5317758	106	0.196000	0.50	0.5318901	106	0.169000	0.50	0.5338599	107	0.564000
CHROMIUM	1	0.9945938	99.50	0.728000	1	1.004034	100	0.392000	1	1.008337	101	0.911000
COBALT	1	0.9875392	98.80	0.916000	1	0.9950837	99.50	1.080000	1	0.9906375	99.10	0.957000
LEAD	0.50	0.522942	105	0.484000	0.50	0.5251793	105	0.966000	0.50	0.5156088	103	0.476000
LITHIUM	1	0.971035	97.10	1.280000	1	0.955589	95.60	0.616000	1	0.9890857	98.90	1.250000
SELENIUM	1	1.090999	109	1.370000	1	1.09659	110	1.140000	1	1.100269	110	1.790000
SILVER	0.50	0.529161	106	0.364000	0.50	0.529959	106	0.377000	0.50	0.5287199	106	0.366000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110

SDG:	L1835568	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250317055030		20250317113306		20250317113449		20250317115315	
Analyte	mg/l		mg/l		mg/kg		mg/l	
ARSENIC	0.003906087	U	-0.00228941	U	U		-0.002358912	U
BARIUM	0.00001961531	U	0.0007833847	U	U		0.00006437754	U
BORON	0.004031129	U	0.002553567	U	U		0.006013927	U
CADMIUM	0.0004079453	U	0.0004324283	U	U		0.0008078316	U
CHROMIUM	0.001525766	U	0.0002792002	U	U		0.001258055	U
COBALT	-0.0003682242	U	-0.0009135078	U	U		0.0001058165	U
LEAD	0.0004382644	U	0.0001075668	U	U		0.0001105338	U
LITHIUM	0.001671803	U	0.0009166649	U	U		0.003018161	U
SELENIUM	0.002341215	U	0.0006317098	U	U		-0.001983138	U
SILVER	0.002240822	U	-0.0002839557	U	U		-0.000873451	U

SDG:	L1835568	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250317121323		20250317123015	
Analyte	mg/l		mg/l	
ARSENIC	-0.000430667	U	0.00343468	U
BARIUM	0.0003489514	U	0.000607837	U
BORON	0.002350736	U	0.005385583	U
CADMIUM	0.0004861679	U	-0.0004672836	U
CHROMIUM	0.001065887	U	0.002190257	U
COBALT	-0.00009366228	U	-0.000931425	U
LEAD	0.000707892	U	-0.004832462	U
LITHIUM	0.002377289	U	0.004434174	U
SELENIUM	-0.004642003	U	0.001846339	U
SILVER	-0.0007011001	U	-0.001656353	U

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835568	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/17/25 06:01
Instrument Run:	031725ICP16		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	507.9395	102	500	512.0392	102
ANTIMONY	0	-0.001021929		0.50	0.4816248	96.30
ARSENIC	0	-0.007323747		0.50	0.4849305	97
BARIUM	0	0.002114987		0.50	0.4874725	97.50
BERYLLIUM	0	-0.00007303524		0.50	0.5033725	101
BORON	0	-0.03201524		1	0.973351	97.30
CADMIUM	0	0.0001791805		1	0.9861751	98.60
CALCIUM	500	503.8431	101	500	515.1129	103
CERIUM	0	0.09399739		0	0.1052184	
CHROMIUM	0	-0.000001793727		0.50	0.4883062	97.70
COBALT	0	0.003602234		0.50	0.5349673	107
COPPER	0	-0.001721835		0.50	0.5133725	103
IRON	200	201.6069	101	200	203.5575	102
LANTHANUM	0	-0.008068083		0	-0.01176386	
LEAD	0	-0.0006905332		1	1.043786	104
LITHIUM	0	0.002007994		0	0.001713506	
MAGNESIUM	500	511.0575	102	500	514.4994	103
MANGANESE	0	-0.007751766		0.50	0.4896851	97.90
MOLYBDENUM	0	-0.00134845		0.50	0.4737898	94.80
NICKEL	0	0.002376791		1	1.072614	107
PHOSPHORUS	0	0.002437698		0	-0.001221167	
POTASSIUM	0	0.08962172		0	0.05904314	
SELENIUM	0	-0.003923936		0.50	0.4779742	95.60
SILICON	0	-0.01498583		1	0.9324984	93.20
SILVER	0	0.005846697		1	0.8788705	87.90
SODIUM	0	0.05668188		0	0.06796401	
STRONTIUM	0	0.006793096		0	0.006816121	
SULFUR	0	-0.01927311		0	0.00008507571	
THALLIUM	0	-0.003684261		0.50	0.4954285	99.10
TIN	0	-0.001041403		0.50	0.5264181	105
TITANIUM	0	-0.003692463		0.50	0.4900986	98
VANADIUM	0	0.005567498		0.50	0.4964587	99.30
ZINC	0	0.0199295		1	0.9611641	96.10

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835568	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/17/25 12:59
Instrument Run:	031725ICP16		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	519.542	104	500	524.5761	105
ANTIMONY	0	0.01019599		0.50	0.4992857	99.90
ARSENIC	0	-0.006815824		0.50	0.5020655	100
BARIUM	0	0.002558191		0.50	0.4881282	97.60
BERYLLIUM	0	-0.00003595719		0.50	0.5174664	103
BORON	0	-0.03123782		1	0.9977762	99.80
CADMIUM	0	-0.001136757		1	0.9808325	98.10
CALCIUM	500	518.1376	104	500	522.479	104
CERIUM	0	0.01847703		0	-0.003644077	
CHROMIUM	0	0.001293955		0.50	0.4918094	98.40
COBALT	0	-0.0001994762		0.50	0.5562862	111
COPPER	0	0.002022274		0.50	0.5305778	106
IRON	200	205.6024	103	200	207.1748	104
LANTHANUM	0	-0.004709134		0	-0.007841304	
LEAD	0	-0.001779968		1	1.069251	107
LITHIUM	0	0.007408578		0	0.007700622	
MAGNESIUM	500	518.9011	104	500	522.9251	105
MANGANESE	0	-0.00654487		0.50	0.5007001	100
MOLYBDENUM	0	-0.001826804		0.50	0.4525296	90.50
NICKEL	0	0.006871768		1	1.101804	110
PHOSPHORUS	0	0.006003712		0	-0.002752027	
POTASSIUM	0	0.2360705		0	0.2425474	
SELENIUM	0	-0.01663706		0.50	0.4611706	92.20
SILICON	0	-0.008070137		1	0.9453838	94.50
SILVER	0	0.005228986		1	0.8415965	84.20
SODIUM	0	0.115185		0	0.1188805	
STRONTIUM	0	0.006178854		0	0.006315543	
SULFUR	0	-0.01037077		0	-0.0007869804	
THALLIUM	0	-0.006176272		0.50	0.5054937	101
TIN	0	0.006568911		0.50	0.536124	107
TITANIUM	0	-0.004340072		0.50	0.5038608	101
VANADIUM	0	0.0132592		0.50	0.5068133	101
ZINC	0	0.01920309		1	0.9451248	94.50

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835568-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4187254-5
R4187254-6

MS Sample / File ID:	R4187254-5 / 20250317114312	**SDG:**	L1835568
MSD Sample / File ID:	R4187254-6 / 20250317114452	**Analytical Batch:**	WG2469957
OS Sample / File ID:	L1835037-06 / 20250317113811	**Matrix:**	Solid
Instrument ID:	ICP16		
Analytical Method:	6010D		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	100	6.20	98.6	96.7	92.4	90.4	1	75.0 - 125	1.95	20
Barium	100	138	238	240	100	101	1	75.0 - 125	0.450	20
Boron	100	U	95.4	93.2	95.4	93.2	1	75.0 - 125	2.30	20
Cadmium	100	0.256	93.0	90.6	92.7	90.3	1	75.0 - 125	2.61	20
Chromium	100	10.4	101	99.0	90.8	88.6	1	75.0 - 125	2.26	20
Cobalt	100	10.0	113	111	102	101	1	75.0 - 125	1.04	20
Lead	100	29.3	134	134	105	104	1	75.0 - 125	0.480	20
Lithium	100	18.1	119	120	101	102	1	75.0 - 125	0.856	20
Selenium	100	U	88.4	85.2	88.4	85.2	1	75.0 - 125	3.72	20
Silver	20.0	0.506	18.4	18.2	89.4	88.7	1	75.0 - 125	0.756	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1835568-01,02,03,04,05,06,07,08,09

SAMPLE NO.: R4187254-4

PS Sample / File ID:	R4187254-4 / 20250317114132	**SDG:**	L1835568
OS Sample / File ID:	L1835037-06 / 20250317113811	**Analytical Batch:**	WG2469957
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	OS Result	PD Result	DS Result	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Arsenic	100	6.20	105		98.5		1	80.0 - 120		
Barium	100	138	232		93.4		1	80.0 - 120		
Boron	100	U	101		101		1	80.0 - 120		
Cadmium	100	0.256	97.1		96.9		1	80.0 - 120		
Chromium	100	10.4	105		94.9		1	80.0 - 120		
Cobalt	100	10.0	118		108		1	80.0 - 120		
Lead	100	29.3	139		109		1	80.0 - 120		
Lithium	100	18.1	124		106		1	80.0 - 120		
Selenium	100	U	95.3		95.3		1	80.0 - 120		
Silver	20.0	0.506	19.5		95.0		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835568-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4187254-2

LCS Sample / File ID:	R4187254-2 / 20250317113630	**SDG:**	L1835568
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2469957
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Arsenic	100	113		113		80.0 - 120		
Barium	100	102		102		80.0 - 120		
Boron	100	102		102		80.0 - 120		
Cadmium	100	111		111		80.0 - 120		
Chromium	100	101		101		80.0 - 120		
Cobalt	100	99.0		99.0		80.0 - 120		
Lead	100	106		106		80.0 - 120		
Lithium	100	95.4		95.4		80.0 - 120		
Selenium	100	112		112		80.0 - 120		
Silver	20.0	19.8		99.0		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4187254-3 / 20250317113951	**SDG:**	L1835568
OS Sample / File ID:	L1835037-06 / 20250317113811	**Analytical Batch:**	WG2469957
Lab File ID:	20250317113951	**Dilution Factor:**	5
Instrument ID:	ICP16	**Matrix:**	Solid
Analytical Method:	6010D		

Analyte	**OS Result**	**SD Result**	**RPD**	**RPD Limits**
	mg/kg	*mg/kg*	*%*	*%*
Arsenic	6.20	5.75	7.39	10
Barium	138	143	3.64	10
Boron	U	U	0.000	10
Cadmium	0.256	0.555	0.000	10
Chromium	10.4	10.6	1.77	10
Cobalt	10.0	9.88	1.38	10
Lead	29.3	28.3	3.52	10
Lithium	18.1	19.1	5.13	10
Selenium	U	U	0.000	10
Silver	0.506	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835568-01,02,03,04,05,06,07,08,09 **Analytical Method:** 6010D
Matrix: Solid **Prep Method:** 3050B

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Cobalt	7440-48-4		228.6160	0.1770	1
Lead	7439-92-1		220.3530	0.3260	0.50
Lithium	7439-93-2		670.7840	0.4050	5
Selenium	7782-49-2		196.09	1.07	2
Silver	7440-22-4		328.0680	0.1270	1
Arsenic	7440-38-2		189.0420	0.8370	2
Barium	7440-39-3		233.5270	0.0850	0.50
Boron	7440-42-8		249.6780	4.50	20
Cadmium	7440-43-9		228.8020	0.0653	0.50
Chromium	7440-47-3		267.7160	0.2140	1

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1835568	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	02/03/25 09:04

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	200
POTASSIUM	500
SELENIUM	10
SILICON	100
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Calibration Start Date:**	03/17/25 05:33
Analytical Run:	031725ICP16	**Calibration End Date:**	03/17/25 05:43

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP160317250531	20250317053143	03/17/25 05:31		
CAL	STD1	20250317053321	03/17/25 05:33		
CAL	STD2	20250317053459	03/17/25 05:34		
CAL	STD3	20250317053637	03/17/25 05:36		
CAL	STD4	20250317053814	03/17/25 05:38		
CAL	STD5	20250317053952	03/17/25 05:39		
CAL	STD6	20250317054129	03/17/25 05:41		
ICV	ICP160317250544	20250317054457	03/17/25 05:44		
ICB	ICP160317250550	20250317055030	03/17/25 05:50		
ICVLL	ICP160317250559	20250317055930	03/17/25 05:59		
ICSA	ICP160317250601	20250317060108	03/17/25 06:01		
ICSAB	ICP160317250602	20250317060245	03/17/25 06:02		
CCV	ICP160317251131	20250317113125	03/17/25 11:31		
CCB	ICP160317251133	20250317113306	03/17/25 11:33		
BLANK	R4187254-1	20250317113449	03/17/25 11:34	1	WG2469957
LCS	R4187254-2	20250317113630	03/17/25 11:36	1	WG2469957
OS	L1835037-06	20250317113811	03/17/25 11:38		
L1835037-06	L1835037-06	20250317113811	03/17/25 11:38	1	WG2469957
SD	R4187254-3	20250317113951	03/17/25 11:39	5	WG2469957
PS	R4187254-4	20250317114132	03/17/25 11:41	1	WG2469957
MS	R4187254-5	20250317114312	03/17/25 11:43	1	WG2469957
MSD	R4187254-6	20250317114452	03/17/25 11:44	1	WG2469957
L1835037-04	L1835037-04	20250317114632	03/17/25 11:46	1	WG2469957
L1835037-05	L1835037-05	20250317114813	03/17/25 11:48	1	WG2469957
L1835042-03	L1835042-03	20250317114953	03/17/25 11:49	1	WG2469957
CCV	ICP160317251151	20250317115134	03/17/25 11:51		
CCB	ICP160317251153	20250317115315	03/17/25 11:53		
L1835560-01	L1835560-01	20250317115456	03/17/25 11:54	1	WG2469957
L1835560-02	L1835560-02	20250317115636	03/17/25 11:56	1	WG2469957
L1835560-03	L1835560-03	20250317115817	03/17/25 11:58	1	WG2469957
L1835560-04	L1835560-04	20250317115957	03/17/25 11:59	1	WG2469957
L1835560-05	L1835560-05	20250317120138	03/17/25 12:01	1	WG2469957
L1835560-07	L1835560-07	20250317120319	03/17/25 12:03	1	WG2469957
L1835560-08	L1835560-08	20250317120459	03/17/25 12:04	1	WG2469957
CLINTON-SCHOOL-DITCH-I-SO	L1835568-01	20250317120640	03/17/25 12:06	1	WG2469957
18-901-I-SO	L1835568-02	20250317120820	03/17/25 12:08	1	WG2469957
K-18-I-SO	L1835568-03	20250317121001	03/17/25 12:10	1	WG2469957
CCV	ICP160317251211	20250317121142	03/17/25 12:11		
CCB	ICP160317251213	20250317121323	03/17/25 12:13		
P-230-I-SO	L1835568-04	20250317121504	03/17/25 12:15	1	WG2469957
P-350-I-SO	L1835568-05	20250317121644	03/17/25 12:16	1	WG2469957
NHR-I-SO	L1835568-06	20250317121825	03/17/25 12:18	1	WG2469957
DUP-SO-031125	L1835568-07	20250317122006	03/17/25 12:20	1	WG2469957
FLYASH-I-SO	L1835568-08	20250317122146	03/17/25 12:21	1	WG2469957
MONTROSE-LAKE-I-SO	L1835568-09	20250317122327	03/17/25 12:23	1	WG2469957
CCV	ICP160317251228	20250317122834	03/17/25 12:28		
CCB	ICP160317251230	20250317123015	03/17/25 12:30		
ICSA	ICP160317251259	20250317125913	03/17/25 12:59		
ICSAB	ICP160317251300	20250317130054	03/17/25 13:00		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.009423762	94.20	0.20	.205544	103
BARIUM	0.0050	.005373559	107	0.10	.101528	102
BORON	0.20	.2029191	101			
CADMIUM	0.0020	.002397649	120	0.10	.106047	106
CHROMIUM	0.01	.009914651	99.10	0.20	.1968533	98.40
COBALT	0.01	.009549633	95.50	0.20	.1890604	94.50
LEAD	0.0050	.005428977	109	0.10	.1029553	103
LITHIUM	0.0150	.0159804	107	0.20	.1808979	90.40
SELENIUM	0.01	.01186726	119	0.20	.2069453	103
SILVER	0.0050	.004579881	91.60	0.10	.1020205	102
File ID:		20250317053321			20250317053459	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.4070408	102	1	1.022365	102
BARIUM	0.20	.1987557	99.40	0.50	.5130964	103
BORON	0.40	.3977123	99.40	1	1.021254	102
CADMIUM	0.20	.205722	103	0.50	.5179268	104
CHROMIUM	0.40	.3925631	98.10	1	1.010594	101
COBALT	0.40	.379828	95	1	.9898022	99
LEAD	0.20	.2045265	102	0.50	.5172496	103
LITHIUM	0.40	.365285	91.30	1	.9936661	99.40
SELENIUM	0.40	.407241	102	1	1.036422	104
SILVER	0.20	.2014081	101	0.50	.513352	103
File ID:		20250317053637			20250317053814	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	1.9684	98.40	4	4.009229	100
BARIUM	1	.9874199	98.70	2	2.003063	100
BORON	2	1.965462	98.30	4	4.012038	100
CADMIUM	1	.9871812	98.70	2	2.001053	100
CHROMIUM	2	1.970144	98.50	4	4.013181	100
COBALT	2	1.927725	96.40	4	4.041252	101
LEAD	1	.9824366	98.20	2	2.003868	100
LITHIUM	2	2.012013	101			
SELENIUM	2	1.966604	98.30	4	4.006517	100
SILVER	1	.9777496	97.80	2	2.007546	100
File ID:		20250317053952			20250317054129	

16A-IN

INITIAL CALIBRATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/17/25 05:33
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/17/25 05:43
Analytical Method:	6010D	**Analytical Run:**	031725ICP16

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999936	180.4201	1.375095
BARIUM	233.527	8	5	0.999947	5051.006	-7.310431
BORON	249.678	8	5	0.999922	217.0791	-0.506002
CADMIUM	228.802	8	5	0.999914	1620.748	2.670379
CHROMIUM	267.716	8	5	0.999952	2025.001	7.872863
COBALT	228.616	8	5	0.999711	906.5096	5.404272
LEAD	220.353	8	5	0.999899	413.2392	0.278895
LITHIUM	670.784	8	5	0.999715	925.6218	-12.25309
SELENIUM	196.09	8	5	0.9999	123.6363	0.486919
SILVER	328.068	8	5	0.999886	4242.44	-19.57929

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

Sample ID: CALBLK Units: mg/l
Analyzed: 03/17/25 05:31 Sequence: 2 Standard ID: 25C17417

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4416.752	4407.984	4422.504	4419.767
YTTRIUM	360.073	Axial	47109.94	46825.93	47174.94	47328.95
YTTRIUM	360.073	Radial	4318.192	4319.253	4334.939	4300.382
INDIUM	230.606	Axial	1065.202	1062.008	1065.052	1068.546

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	-5.51437	-6.677198	-5.718820	-4.147102
ANTIMONY	206.833	Axial	0.1644945	-1.997449	1.133374	1.357558
ARSENIC	189.042	Axial	1.376047	0.4208441	1.881449	1.825849
BARIUM	233.527	Axial	-7.30962	-8.091441	-6.843372	-6.994059
BERYLLIUM	313.042	Radial	4.473396	5.611612	5.658846	2.149729
BORON	249.678	Radial	-0.5082295	-2.180583	-0.4285406	1.084435
CADMIUM	228.802	Axial	2.669886	3.203594	2.612339	2.193726
CALCIUM	317.933	Radial	18.18788	19.99365	15.92926	18.64074
CALCIUM	373.690	Radial	-2.05057	-3.657024	-3.960301	1.465588
CERIUM	535.353	Radial	13.53322	10.07020	13.53977	16.98969
CHROMIUM	267.716	Axial	7.869894	10.47362	4.794021	8.342044
COBALT	228.616	Axial	5.405426	4.217017	6.546089	5.453172
COPPER	324.754	Axial	-2.27570	-4.925791	-2.840380	0.9390673
IRON	259.940	Radial	3.760271	3.921763	4.115791	3.243257
IRON	271.441	Radial	0.9626185	0.7636031	0.9560742	1.168178
LANTHANUM	333.749	Radial	-0.7159153	-1.678131	-0.2040604	-0.2655544
LEAD	220.353	Axial	0.2801466	-0.8105340	1.177502	0.4734718
LITHIUM	670.784	Radial	-12.2526	-9.896865	-13.43242	-13.42869
MAGNESIUM	279.079	Radial	-2.79166	-2.337037	-2.803551	-3.234402
MANGANESE	257.610	Axial	-15.0056	-17.79291	-14.44256	-12.78159
MOLYBDENUM	202.030	Axial	0.04317322	-0.01217761	0.06180013	0.07989713
NICKEL	231.604	Axial	-2.28248	-1.754105	-3.231697	-1.861652
PHOSPHORUS	177.495	Axial	1.686707	1.901701	0.7892794	2.369140
POTASSIUM	766.490	Radial	-33.2179	-30.52925	-36.66979	-32.45469
SELENIUM	196.090	Axial	0.4867249	0.6952819	0.4522041	0.3126887
SILICON	251.611	Axial	4.298707	4.804253	1.620796	6.471072
SILVER	328.068	Axial	-19.5784	-18.73692	-22.77490	-17.22347
SODIUM	589.592	Radial	-62.0356	-61.36806	-60.53506	-64.20371
SODIUM	818.326	Radial	-13.2005	-11.99179	-15.00391	-12.60598
STRONTIUM	421.552	Radial	3.680263	6.919948	1.572402	2.548439
SULFUR	182.034	Axial	4.195224	4.322487	3.804104	4.459082
THALLIUM	190.856	Axial	0.5800692	0.2016700	0.2100798	1.328458
TIN	189.989	Axial	-0.8213930	-1.757995	0.08146649	-0.7876509
TITANIUM	334.941	Radial	-2.77447	-1.893117	-4.211235	-2.219059
VANADIUM	292.402	Radial	-2.64069	-3.644727	-2.109329	-2.168034
ZINC	206.200	Axial	119.9733	119.5200	120.0810	120.3188

Sample ID: STD1 Units: mg/l
Analyzed: 03/17/25 05:33 Sequence: 3 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4324.972	4322.827	4321.664	4330.424
YTTRIUM	360.073	Axial	46404.90	46397.26	46313.32	46504.13
YTTRIUM	360.073	Radial	4224.101	4232.101	4190.411	4249.790
INDIUM	230.606	Axial	1033.547	1030.948	1031.061	1038.633

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	5.599815	1.837626	8.215999	6.745820
ANTIMONY	206.833	Axial	1.551975	1.400145	2.408603	0.8471781
ARSENIC	189.042	Axial	3.011735	2.595924	2.911835	3.527446
BARIUM	233.527	Axial	19.41884	19.77154	19.85012	18.63487
BERYLLIUM	313.042	Radial	36.03556	36.99839	35.52645	35.58184
BORON	249.678	Radial	42.59573	41.42963	42.40460	43.95296
CADMIUM	228.802	Axial	6.420300	6.176791	6.361995	6.722114
CALCIUM	317.933	Radial	246.8415	246.8315	245.3028	248.3901
CHROMIUM	267.716	Axial	27.36898	27.31510	27.77811	27.01372
COBALT	228.616	Axial	13.63991	12.19636	16.40616	12.31722
COPPER	324.754	Axial	45.25492	43.07495	47.72194	44.96788
IRON	259.940	Radial	26.33739	25.61992	26.73796	26.65430
LEAD	220.353	Axial	2.449226	0.8535769	3.308665	3.185435
LITHIUM	670.784	Radial	2.466514	1.665522	6.281925	-0.5479071
MAGNESIUM	279.079	Radial	86.48017	85.25492	87.04314	87.14246
MANGANESE	257.610	Axial	158.7872	159.3947	157.0290	159.9378
MOLYBDENUM	202.030	Axial	1.894421	1.697409	2.308977	1.676877
NICKEL	231.604	Axial	6.523501	6.155316	6.757920	6.657268
PHOSPHORUS	177.495	Axial	20.54731	20.34927	21.69413	19.59854
POTASSIUM	766.490	Radial	73.37135	74.60556	75.52906	69.97944
SELENIUM	196.090	Axial	1.914006	1.260869	1.782351	2.698798
SILICON	251.611	Axial	194.2719	191.8827	194.4395	196.4937
SILVER	328.068	Axial	-0.1464490	-8.446320	3.961421	4.045552
SODIUM	589.592	Radial	325.8220	322.3277	316.4117	338.7266
STRONTIUM	421.552	Radial	111.4345	105.0388	116.4144	112.8502
SULFUR	182.034	Axial	59.80078	58.58422	61.56484	59.25327
THALLIUM	190.856	Axial	1.864273	1.907434	2.588196	1.097189
TIN	189.989	Axial	17.38241	17.14896	18.01792	16.98035
TITANIUM	334.941	Radial	80.65883	82.93643	78.55175	80.48832
VANADIUM	292.402	Radial	11.83996	11.33806	10.72408	13.45775
ZINC	206.200	Axial	228.0314	228.4322	228.4163	227.2457

Sample ID: STD2 Units: mg/l
Analyzed: 03/17/25 05:34 Sequence: 4 Standard ID: 25C17419

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4626.505	4625.362	4596.057	4658.096
YTTRIUM	360.073	Axial	49397.62	49441.83	49375.04	49375.99
YTTRIUM	360.073	Radial	4274.238	4296.208	4284.209	4242.298
INDIUM	230.606	Axial	1108.878	1105.914	1112.148	1108.571

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	108.3338	111.9185	109.5976	103.4853
ANTIMONY	206.833	Axial	14.33046	14.75824	14.88583	13.34732
ARSENIC	189.042	Axial	40.28508	40.66318	39.97920	40.21286
BARIUM	233.527	Axial	529.5158	528.2605	526.3697	533.9172
BERYLLIUM	313.042	Radial	657.9291	663.1522	657.0188	653.6163
CADMIUM	228.802	Axial	182.8337	183.2355	181.7081	183.5574
CALCIUM	317.933	Radial	2313.001	2336.875	2320.335	2281.792
CHROMIUM	267.716	Axial	425.7990	425.2737	424.7742	427.3490
COBALT	228.616	Axial	184.0375	184.0048	184.3730	183.7346
COPPER	324.754	Axial	908.8407	905.7060	914.9458	905.8702
IRON	259.940	Radial	508.1520	502.2939	509.4385	512.7237
LEAD	220.353	Axial	44.57978	44.18024	44.36192	45.19719
LITHIUM	670.784	Radial	153.6034	153.8107	152.6163	154.3833
MAGNESIUM	279.079	Radial	177.6785	178.1376	179.2353	175.6626
MANGANESE	257.610	Axial	3825.783	3830.154	3820.701	3826.496
MOLYBDENUM	202.030	Axial	23.03015	22.48396	22.56544	24.04104
NICKEL	231.604	Axial	161.6528	163.7055	161.6672	159.5857
PHOSPHORUS	177.495	Axial	40.15004	41.04137	39.28989	40.11885
POTASSIUM	766.490	Radial	969.8336	975.3624	971.0533	963.0852
SELENIUM	196.090	Axial	27.31036	27.48858	27.19779	27.24471
SILICON	251.611	Axial	406.4204	404.1142	409.8450	405.3021
SILVER	328.068	Axial	433.3036	433.7873	432.4973	433.6260
SODIUM	589.592	Radial	3710.527	3727.992	3734.516	3669.074
STRONTIUM	421.552	Radial	2145.032	2196.149	2152.002	2086.947
THALLIUM	190.856	Axial	35.36732	35.87093	34.66329	35.56773
TIN	189.989	Axial	36.82705	35.40947	38.07162	37.00006
TITANIUM	334.941	Radial	331.4248	335.0849	332.8800	326.3095
VANADIUM	292.402	Radial	122.6215	122.9516	125.0387	119.8743
ZINC	206.200	Axial	573.3936	571.2072	576.0992	572.8744

Sample ID: STD3 Units: mg/l
Analyzed: 03/17/25 05:36 Sequence: 5 Standard ID: 25C17420

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4669.710	4666.335	4663.688	4679.106
YTTRIUM	360.073	Axial	49332.45	49215.22	49248.61	49533.52
YTTRIUM	360.073	Radial	4248.348	4273.573	4241.062	4230.410
INDIUM	230.606	Axial	1105.581	1100.807	1106.032	1109.904

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	219.0094	221.7154	217.3025	218.0103
ANTIMONY	206.833	Axial	29.37418	29.97910	29.93591	28.20754
ARSENIC	189.042	Axial	79.09753	79.47999	79.23169	78.58091
BARIUM	233.527	Axial	1053.687	1044.388	1056.622	1060.049
BERYLLIUM	313.042	Radial	1298.002	1311.210	1292.710	1290.085
BORON	249.678	Radial	84.44023	84.74647	84.41022	84.16399
CADMIUM	228.802	Axial	355.3430	356.6139	353.3805	356.0347
CALCIUM	317.933	Radial	4550.273	4613.656	4537.933	4499.229
CHROMIUM	267.716	Axial	848.7923	840.6703	854.1367	851.5699
COBALT	228.616	Axial	362.9728	364.4687	361.3144	363.1352
COPPER	324.754	Axial	1780.118	1777.729	1782.268	1780.357
IRON	259.940	Radial	996.7040	1004.203	982.0502	1003.859
LEAD	220.353	Axial	88.01378	86.96833	87.82533	89.24768
LITHIUM	670.784	Radial	320.5978	322.7168	325.9398	313.1367
MAGNESIUM	279.079	Radial	351.4480	355.4057	348.9051	350.0331
MANGANESE	257.610	Axial	7623.300	7592.164	7588.680	7689.056
MOLYBDENUM	202.030	Axial	44.10068	44.00081	43.83423	44.46699
NICKEL	231.604	Axial	323.0413	322.3909	322.6516	324.0813
PHOSPHORUS	177.495	Axial	77.98086	78.14974	77.92273	77.87010
POTASSIUM	766.490	Radial	1934.862	1952.761	1928.281	1923.543
SELENIUM	196.090	Axial	53.74953	52.70385	53.34751	55.19723
SILICON	251.611	Axial	784.1348	786.7430	777.9222	787.7393
SILVER	328.068	Axial	874.2635	876.0355	871.8740	874.8808
SODIUM	589.592	Radial	7328.273	7372.152	7268.842	7343.825
SODIUM	818.326	Radial	92.44807	90.28564	92.73658	94.32200
STRONTIUM	421.552	Radial	4237.324	4305.111	4254.275	4152.585
SULFUR	182.034	Axial	113.1507	112.5785	114.4646	112.4090
THALLIUM	190.856	Axial	68.60506	67.77861	68.94786	69.08869
TIN	189.989	Axial	72.20784	72.43362	73.17353	71.01637
TITANIUM	334.941	Radial	662.3586	668.2080	660.9569	657.9108
VANADIUM	292.402	Radial	242.7229	245.5760	239.5661	243.0266
ZINC	206.200	Axial	980.9727	992.3694	970.2150	980.3336

Sample ID: STD4 Units: mg/l
Analyzed: 03/17/25 05:38 Sequence: 6 Standard ID: 25C17421

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4769.199	4766.877	4776.300	4764.419
YTTRIUM	360.073	Axial	50053.29	49886.90	49955.79	50317.19
YTTRIUM	360.073	Radial	4229.692	4220.100	4242.663	4226.312
INDIUM	230.606	Axial	1110.873	1109.777	1109.131	1113.711

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	565.7871	565.1182	565.9824	566.2607
ANTIMONY	206.833	Axial	73.69982	74.10524	74.13729	72.85693
ARSENIC	189.042	Axial	200.6578	199.9981	199.2995	202.6757
BARIUM	233.527	Axial	2790.564	2778.619	2792.858	2800.216
BERYLLIUM	313.042	Radial	3349.259	3341.219	3356.101	3350.456
BORON	249.678	Radial	216.6535	215.5480	216.8421	217.5704
CADMIUM	228.802	Axial	909.2946	901.8611	909.3122	916.7106
CALCIUM	317.933	Radial	11477.60	11429.53	11491.51	11511.75
CALCIUM	373.690	Radial	5220.294	5206.935	5223.905	5230.043
CHROMIUM	267.716	Axial	2218.249	2207.701	2213.464	2233.581
COBALT	228.616	Axial	941.3748	939.3124	938.6115	946.2006
COPPER	324.754	Axial	4574.918	4550.160	4552.229	4622.366
IRON	259.940	Radial	2559.331	2589.398	2532.761	2555.833
IRON	271.441	Radial	217.1104	217.8962	216.3502	217.0850
LEAD	220.353	Axial	223.2040	223.5459	221.7105	224.3557
LITHIUM	670.784	Radial	888.9097	882.3206	892.1174	892.2911
MAGNESIUM	279.079	Radial	902.1022	902.6230	904.9567	898.7268
MANGANESE	257.610	Axial	20199.19	20039.01	20229.05	20329.51
MOLYBDENUM	202.030	Axial	111.1529	110.2850	110.9185	112.2551
NICKEL	231.604	Axial	843.1998	837.5184	845.7020	846.3790
PHOSPHORUS	177.495	Axial	198.6869	197.5204	199.0893	199.4509
POTASSIUM	766.490	Radial	4999.146	4990.341	4987.607	5019.491
SELENIUM	196.090	Axial	138.8910	137.7313	140.0769	138.8649
SILICON	251.611	Axial	2027.980	1986.498	2035.795	2061.646
SILVER	328.068	Axial	2293.151	2268.023	2301.526	2309.905
SODIUM	818.326	Radial	252.5938	255.1860	248.1984	254.3969
STRONTIUM	421.552	Radial	10747.52	10661.69	10822.47	10758.39
SULFUR	182.034	Axial	283.4059	282.5682	283.4262	284.2232
THALLIUM	190.856	Axial	173.3072	172.0325	173.1456	174.7435
TIN	189.989	Axial	186.1017	186.4482	184.0177	187.8393
TITANIUM	334.941	Radial	1713.047	1705.119	1719.632	1714.391
VANADIUM	292.402	Radial	622.3264	621.3108	624.9402	620.7282
ZINC	206.200	Axial	2371.126	2334.391	2393.863	2385.123

Sample ID: STD5 Units: mg/l
Analyzed: 03/17/25 05:39 Sequence: 7 Standard ID: 25C17422

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4786.085	4758.891	4795.511	4803.852
YTTRIUM	360.073	Axial	49894.27	49482.48	50240.97	49959.37
YTTRIUM	360.073	Radial	4207.353	4212.651	4199.839	4209.571
INDIUM	230.606	Axial	1106.049	1099.015	1109.564	1109.568

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1090.393	1092.420	1085.227	1093.531
ANTIMONY	206.833	Axial	140.4656	138.8501	141.7884	140.7582
ARSENIC	189.042	Axial	386.3208	385.4126	389.1014	384.4485
BARIUM	233.527	Axial	5396.704	5330.392	5417.960	5441.760
BERYLLIUM	313.042	Radial	6410.422	6413.493	6402.951	6414.823
BORON	249.678	Radial	415.2164	415.1770	414.2278	416.2444
CADMIUM	228.802	Axial	1736.680	1718.307	1745.480	1746.254
CALCIUM	373.690	Radial	9886.368	9890.885	9893.875	9874.346
CHROMIUM	267.716	Axial	4331.692	4307.781	4323.778	4363.518
COBALT	228.616	Axial	1820.147	1801.283	1824.762	1834.395
COPPER	324.754	Axial	8639.921	8543.962	8710.850	8664.951
IRON	271.441	Radial	415.0777	417.9630	412.6124	414.6576
LEAD	220.353	Axial	421.8555	414.0052	426.5447	425.0164
LITHIUM	670.784	Radial	1802.587	1767.285	1832.370	1808.106
MAGNESIUM	279.079	Radial	1732.676	1735.351	1722.105	1740.571
MANGANESE	257.610	Axial	39098.89	38657.76	39262.14	39376.78
MOLYBDENUM	202.030	Axial	211.0756	209.0210	211.9852	212.2205
NICKEL	231.604	Axial	1633.985	1621.112	1637.458	1643.387
PHOSPHORUS	177.495	Axial	385.0820	384.3840	389.7534	381.1087
POTASSIUM	766.490	Radial	9701.979	9735.422	9675.144	9695.372
SELENIUM	196.090	Axial	264.0122	258.8834	268.5433	264.6101
SILICON	251.611	Axial	3866.077	3793.971	3917.914	3886.347
SILVER	328.068	Axial	4372.631	4296.506	4420.980	4400.407
SODIUM	818.326	Radial	499.7328	524.2439	482.8645	492.0902
STRONTIUM	421.552	Radial	20456.42	20283.51	20619.00	20466.76
SULFUR	182.034	Axial	550.9353	553.9209	548.7424	550.1425
THALLIUM	190.856	Axial	328.1771	324.3734	330.2098	329.9482
TIN	189.989	Axial	357.1566	356.2327	355.2842	359.9528
TITANIUM	334.941	Radial	3279.001	3257.236	3275.025	3304.743
VANADIUM	292.402	Radial	1189.703	1191.366	1186.227	1191.517
ZINC	206.200	Axial	4369.178	4252.373	4454.194	4400.966

Sample ID: STD6 Units: mg/l
Analyzed: 03/17/25 05:41 Sequence: 8 Standard ID: 25C17423

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4768.627	4773.061	4802.198	4730.621
YTTRIUM	360.073	Axial	48897.15	48905.79	49195.79	48589.87
YTTRIUM	360.073	Radial	4199.747	4203.496	4209.466	4186.278
INDIUM	230.606	Axial	1077.618	1077.333	1082.528	1072.993

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	2242.513	2251.872	2254.107	2221.560
ANTIMONY	206.833	Axial	280.9949	279.8583	282.3052	280.8212
ARSENIC	189.042	Axial	782.4235	780.0535	782.9302	784.2869
BARIUM	233.527	Axial	10915.52	10864.18	11007.22	10875.17
BERYLLIUM	313.042	Radial	12974.11	13006.01	12991.19	12925.13
BORON	249.678	Radial	846.5543	850.7477	849.1322	839.7830
CADMIUM	228.802	Axial	3504.329	3485.348	3515.013	3512.626
CALCIUM	373.690	Radial	19903.32	20003.30	19848.04	19858.63
CERIUM	535.353	Radial	897.9970	905.3182	889.8374	898.8354
CHROMIUM	267.716	Axial	8782.567	8781.612	8836.270	8729.819
COBALT	228.616	Axial	3711.626	3685.980	3748.032	3700.867
COPPER	324.754	Axial	17215.68	17137.41	17357.47	17152.14
IRON	271.441	Radial	833.7248	842.1187	830.5813	828.4746
LANTHANUM	333.749	Radial	5258.420	5295.710	5256.846	5222.705
LEAD	220.353	Axial	838.0149	831.6359	846.0311	836.3778
LITHIUM	670.784	Radial	3849.881	3854.402	3822.782	3872.459
MAGNESIUM	279.079	Radial	3517.278	3546.928	3505.535	3499.371
MANGANESE	257.610	Axial	79741.47	79283.15	80393.31	79547.94
MOLYBDENUM	202.030	Axial	425.6653	425.7664	425.9340	425.2957
NICKEL	231.604	Axial	3334.475	3322.327	3361.301	3319.798
PHOSPHORUS	177.495	Axial	773.1482	778.8672	769.2392	771.3383
POTASSIUM	766.490	Radial	19791.04	19802.74	19807.71	19762.65
SELENIUM	196.090	Axial	535.3149	529.6476	537.6522	538.6449
SILICON	251.611	Axial	7731.679	7579.956	7817.194	7797.886
SILVER	328.068	Axial	8819.721	8807.797	8890.873	8760.493
SODIUM	818.326	Radial	1020.825	1039.238	1011.334	1011.904
STRONTIUM	421.552	Radial	41454.04	41169.22	41962.88	41230.04
SULFUR	182.034	Axial	1107.965	1107.216	1107.723	1108.955
THALLIUM	190.856	Axial	637.8616	637.8019	636.5536	639.2292
TIN	189.989	Axial	711.5795	709.1910	718.8690	706.6785
TITANIUM	334.941	Radial	6649.186	6684.805	6616.521	6646.231
VANADIUM	292.402	Radial	2423.407	2433.300	2436.985	2399.934
ZINC	206.200	Axial	8969.151	8857.507	9048.927	9001.018

Sample ID: ICV Units: mg/l
Analyzed: 03/17/25 05:44 Sequence: 10 Standard ID: 25C17424

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	4738.054	4718.566	4760.710	4752.543	4720.396
YTTRIUM	360.073	Axial	49870.13	49801.96	50004.51	49736.22	49937.81
YTTRIUM	360.073	Radial	4214.107	4230.862	4195.830	4244.489	4185.246
INDIUM	230.606	Axial	1108.164	1107.082	1108.372	1110.060	1107.142

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	557.1331	9.850542	9.846317	9.832411	9.885717	9.837723
ANTIMONY	206.833	Axial	144.5305	1.032767	1.035604	1.021633	1.031660	1.042169
ARSENIC	189.042	Axial	200.2207	1.026874	1.031528	1.035876	1.013357	1.026737
BARIUM	233.527	Axial	5402.924	0.9985948	0.9970923	0.9958670	0.9945775	1.006842
BERYLLIUM	313.042	Radial	16003.42	0.9850738	0.9860969	0.9829089	0.9848961	0.9863933
BORON	249.678	Radial	206.8714	0.9788266	0.9820802	0.9817512	0.9813197	0.9701552
CADMIUM	228.802	Axial	1792.205	1.029184	1.030742	1.022322	1.020434	1.043239
CALCIUM	317.933	Radial	2251.951	9.807505	9.853338	9.756579	9.758687	9.861418
CHROMIUM	267.716	Axial	2135.029	0.9789612	0.9771911	0.9762294	0.9752446	0.9871798
COBALT	228.616	Axial	902.6705	0.9512029	0.9460938	0.9509312	0.9455076	0.9622789
COPPER	324.754	Axial	4524.307	1.032068	1.031057	1.030503	1.026541	1.040172
IRON	259.940	Radial	2537.650	10.00379	9.996022	10.18549	9.866686	9.966972
LEAD	220.353	Axial	436.0408	1.013596	1.010187	1.010745	1.013055	1.020399
LITHIUM	670.784	Radial	810.9626	0.9109842	0.9171478	0.8980574	0.9143745	0.9143570
MAGNESIUM	279.079	Radial	871.6752	9.930842	9.938191	9.916442	9.923226	9.945508
MANGANESE	257.610	Axial	19218.92	0.9746307	0.9731005	0.9724495	0.9669394	0.9860333
MOLYBDENUM	202.030	Axial	446.2545	1.054674	1.060715	1.042741	1.044008	1.071231
NICKEL	231.604	Axial	822.8961	0.9713895	0.9696667	0.9748953	0.9630515	0.9779445
PHOSPHORUS	177.495	Axial	197.0941	1.019974	1.024466	1.027016	1.004003	1.024411
POTASSIUM	766.490	Radial	971.8337	10.13266	10.16733	10.11679	10.11151	10.13500
SELENIUM	196.090	Axial	133.4647	1.002359	0.9951604	1.004693	0.9945939	1.014990
SILICON	251.611	Axial	998.7699	1.011954	0.9957953	1.004197	1.013324	1.034498
SILVER	328.068	Axial	4411.953	0.9870163	0.9826508	0.9840853	0.9927781	0.9885512
SODIUM	589.592	Radial	3725.576	10.29957	10.31797	10.33178	10.24522	10.30332
STRONTIUM	421.552	Radial	4181.799	0.4023532	0.4046172	0.3939997	0.4043228	0.4064733
SULFUR	182.034	Axial	564.6669	10.38914	10.40449	10.50087	10.31600	10.33518
THALLIUM	190.856	Axial	172.6428	1.046773	1.048667	1.046365	1.043453	1.048608
TIN	189.989	Axial	372.4021	1.022036	1.023575	1.031776	1.015312	1.017480
TITANIUM	334.941	Radial	1656.859	0.9963286	0.9988817	0.9919014	0.9995817	0.9949496
VANADIUM	292.402	Radial	599.8690	0.9923711	0.9965310	0.9912964	0.9893454	0.9923116
ZINC	206.200	Axial	2320.133	1.005816	1.008906	0.9958044	0.9947808	1.023774
CERIUM	535.353	Radial	15.44077	0.02516717	-0.01786754	0.07166423	0.03133288	0.01553909
LANTHANUM	333.749	Radial	-6.83143	-0.01163063	-0.007020568	-0.01435845	-0.01212060	-0.01302290

Sample ID: ICB Units: mg/l
Analyzed: 03/17/25 05:50 Sequence: 11

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4349.336	4334.635	4292.133	4421.239
YTTRIUM	360.073	Axial	46425.34	46183.89	46230.53	46861.60
YTTRIUM	360.073	Radial	4272.445	4315.083	4217.926	4284.327
INDIUM	230.606	Axial	1055.857	1048.119	1047.252	1072.200

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.00102	0.02482872	0.02836656	-0.02460959	0.07072919
ANTIMONY	206.833	Axial	0.8544004	0.005369501	0.005426160	0.0009705197	0.009711824
ARSENIC	189.042	Axial	2.051192	0.003906087	0.002213141	0.003275182	0.006229937
BARIUM	233.527	Axial	-7.09233	0.00001961531	-0.00004431767	-0.0001192464	0.0002224100
BERYLLIUM	313.042	Radial	4.530472	0.000006763802	-0.0001088085	-0.00002122614	0.0001503260
BORON	249.678	Radial	0.3635261	0.004031129	-0.001922147	0.002743838	0.01127170
CADMIUM	228.802	Axial	3.282089	0.0004079453	-0.0002669476	0.0007729327	0.0007178508
CALCIUM	317.933	Radial	17.81548	-0.0008363856	0.003274358	-0.007206567	0.001423053
CERIUM	535.353	Radial	14.90567	0.01700554	0.006230101	0.05509278	-0.01030625
CHROMIUM	267.716	Axial	10.77568	0.001525766	0.001964348	0.002221295	0.0003916547
COBALT	228.616	Axial	5.028918	-0.0003682242	-0.0003569272	-0.0007927663	0.00004502093
COPPER	324.754	Axial	-7.35169	-0.001251102	-0.0007815581	-0.002255135	-0.0007166114
IRON	259.940	Radial	2.056072	-0.006468569	-0.007497803	-0.005456476	-0.006451427
LANTHANUM	333.749	Radial	-1.26775	-0.001031613	-0.001772242	0.001341609	-0.002664206
LEAD	220.353	Axial	0.4562349	0.0004382644	0.001479775	-0.0006498432	0.0004848616
LITHIUM	670.784	Radial	-10.5972	0.001671803	0.0009775445	0.002409192	0.001628674
MAGNESIUM	279.079	Radial	-2.42967	0.003684159	0.01443405	-0.0004128830	-0.002968694
MANGANESE	257.610	Axial	-13.2371	0.00008615774	0.0002797248	0.00006116894	-0.00008242052
MOLYBDENUM	202.030	Axial	0.3078567	0.0006808396	-0.000009259159	0.0008918738	0.001159904
NICKEL	231.604	Axial	-1.05651	0.001505753	0.001263763	0.003772628	-0.0005191322
PHOSPHORUS	177.495	Axial	1.606279	-0.0003198859	0.004793866	-0.004419841	-0.001333683
POTASSIUM	766.490	Radial	-22.1610	0.1063352	0.1300851	0.08782837	0.1010922
SELENIUM	196.090	Axial	0.7597176	0.002341215	0.002217742	0.006416693	-0.001610791
SILICON	251.611	Axial	3.200641	-0.001133340	-0.003164705	0.0005752343	-0.0008105500
SILVER	328.068	Axial	-9.93340	0.002240822	0.001838340	0.003045056	0.001839069
SODIUM	589.592	Radial	-41.1877	0.05419566	0.05200212	0.05428634	0.05629850
STRONTIUM	421.552	Radial	2.624694	-0.00009601433	-0.0002131169	-0.00002813104	-0.00004679500
SULFUR	182.034	Axial	3.792585	-0.006842374	-0.01212887	-0.003000681	-0.005397568
THALLIUM	190.856	Axial	-0.1170227	-0.004398577	-0.002204913	-0.004861691	-0.006129128
TIN	189.989	Axial	-1.07664	-0.0007454925	-0.0001450436	-0.0005533585	-0.001538075
TITANIUM	334.941	Radial	-3.16669	-0.0002568775	0.0004273845	-0.001047138	-0.0001508786
VANADIUM	292.402	Radial	1.210835	0.006210574	0.006586231	0.006058065	0.005987427
ZINC	206.200	Axial	120.9702	0.001426259	0.001742846	0.002442016	0.00009391381

Sample ID: ICVLL Units: mg/l
Analyzed: 03/17/25 05:59 Sequence: 14 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4261.083	4199.455	4243.113	4340.682
YTTRIUM	360.073	Axial	45580.88	45142.16	45118.70	46481.80
YTTRIUM	360.073	Radial	4195.734	4179.288	4242.872	4165.041
INDIUM	230.606	Axial	1014.438	1004.931	1007.023	1031.359

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	6.264865	0.2044365	0.2508804	0.1887153	0.1737139
ANTIMONY	206.833	Axial	1.662080	0.01196290	0.008267154	0.01565041	0.01197113
ARSENIC	189.042	Axial	3.008638	0.009668983	0.005205028	0.01687318	0.006928737
BARIUM	233.527	Axial	17.67565	0.005075451	0.004953824	0.005363629	0.004908902
BERYLLIUM	313.042	Radial	35.90323	0.001951595	0.001999921	0.001970461	0.001884402
BORON	249.678	Radial	41.85762	0.2007582	0.1966562	0.2051497	0.2004687
CADMIUM	228.802	Axial	6.131962	0.002270670	0.001995652	0.002230919	0.002585439
CALCIUM	317.933	Radial	247.3681	1.012763	1.025261	0.9991522	1.013876
CHROMIUM	267.716	Axial	29.57160	0.01125240	0.01225738	0.01025433	0.01124548
COBALT	228.616	Axial	14.00823	0.01026739	0.01021248	0.01067696	0.009912739
COPPER	324.754	Axial	42.13716	0.01106403	0.01076122	0.01148258	0.01094828
IRON	259.940	Radial	26.13624	0.08913802	0.08753740	0.09099421	0.08888246
LEAD	220.353	Axial	2.308126	0.005175568	0.001657543	0.007184592	0.006684567
LITHIUM	670.784	Radial	3.318683	0.01688436	0.01151735	0.02487385	0.01426186
MAGNESIUM	279.079	Radial	85.75495	1.009099	1.007070	1.019016	1.001212
MANGANESE	257.610	Axial	157.1293	0.009668450	0.009786685	0.009491785	0.009726880
MOLYBDENUM	202.030	Axial	1.735164	0.004454185	0.005383813	0.003544348	0.004434392
NICKEL	231.604	Axial	5.880594	0.01036152	0.01044244	0.01094105	0.009701079
PHOSPHORUS	177.495	Axial	20.52636	0.1098035	0.1134404	0.1107350	0.1052351
POTASSIUM	766.490	Radial	81.64593	1.154243	1.138475	1.188333	1.135922
SELENIUM	196.090	Axial	1.743152	0.01063927	0.01358423	0.001593033	0.01674056
SILICON	251.611	Axial	191.7497	0.2089248	0.2097709	0.2099277	0.2070757
SILVER	328.068	Axial	2.607821	0.005253756	0.006141698	0.004715904	0.004903667
SODIUM	589.592	Radial	330.9140	1.068900	1.090324	1.054829	1.061547
STRONTIUM	421.552	Radial	115.5241	0.01082611	0.01087147	0.01107927	0.01052760
SULFUR	182.034	Axial	60.33796	1.161045	1.156396	1.191435	1.135304
THALLIUM	190.856	Axial	2.303382	0.01164348	0.005413589	0.01817735	0.01133950
TIN	189.989	Axial	17.88071	0.05583048	0.05695020	0.05517595	0.05536529
TITANIUM	334.941	Radial	81.39208	0.05071166	0.05110505	0.04923879	0.05179112
VANADIUM	292.402	Radial	10.23999	0.02117555	0.02504047	0.02224312	0.01624307
ZINC	206.200	Axial	227.8784	0.05724150	0.05878522	0.05710034	0.05583895
CERIUM	535.353	Radial	13.27666	0.001524667	-0.006960034	-0.01998659	0.03152063
LANTHANUM	333.749	Radial	-1.11523	-0.0007835085	0.0009093939	-0.003554499	0.0002945802

Sample ID: ICSA Units: mg/l
Analyzed: 03/17/25 06:01 Sequence: 15 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4678.369	4701.118	4648.652	4685.337
YTTRIUM	360.073	Axial	47520.22	47527.62	47607.43	47425.62
YTTRIUM	360.073	Radial	4074.079	4064.302	4121.908	4036.028
INDIUM	230.606	Axial	968.0438	965.1420	972.9275	966.0620

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28036.43	507.9395	507.3607	508.0895	508.3682
ANTIMONY	206.833	Axial	0.03033447	-0.001021929	0.001126673	0.001586566	-0.005779026
ARSENIC	189.042	Axial	0.05734912	-0.007323747	-0.005053862	-0.007191489	-0.009725891
BARIUM	233.527	Axial	3.574837	0.002114987	0.002346998	0.002021705	0.001976258
BERYLLIUM	313.042	Radial	3.063424	-0.00007303524	-0.0001691347	-0.00009389445	0.00004392341
BORON	249.678	Radial	-7.03406	-0.03201524	-0.03167416	-0.03192815	-0.03244341
CADMIUM	228.802	Axial	3.135886	0.0001791805	0.0001950816	0.0002474084	0.00009505161
CALCIUM	373.690	Radial	48125.96	503.8431	505.0319	499.7025	506.7951
CERIUM	535.353	Radial	20.84254	0.09399739	0.1129918	0.08953114	0.07946928
CHROMIUM	267.716	Axial	8.343079	-0.000001793727	0.0004468148	-0.001187826	0.0007356300
COBALT	228.616	Axial	7.880429	0.003602234	0.004016940	0.004413455	0.002376308
COPPER	324.754	Axial	-9.50110	-0.001721835	-0.001866130	-0.001489870	-0.001809505
IRON	271.441	Radial	4065.509	201.6069	201.6564	201.8495	201.3147
LANTHANUM	333.749	Radial	-4.80406	-0.008068083	-0.001264974	-0.01380531	-0.009133963
LEAD	220.353	Axial	0.0006245993	-0.0006905332	-0.003221873	0.006286406	-0.005136132
LITHIUM	670.784	Radial	-9.81709	0.002007994	0.001198165	0.0006031280	0.004222688
MAGNESIUM	279.079	Radial	43500.37	511.0575	509.3600	511.7316	512.0808
MANGANESE	257.610	Axial	-166.928	-0.007751766	-0.007423913	-0.008212226	-0.007619159
MOLYBDENUM	202.030	Axial	-0.5154773	-0.001348450	0.0003117247	-0.002633864	-0.001723210
NICKEL	231.604	Axial	-0.3121846	0.002376791	0.002671111	0.001350708	0.003108554
PHOSPHORUS	177.495	Axial	2.251106	0.002437698	0.006205521	-0.002498918	0.003606492
POTASSIUM	766.490	Radial	-22.7006	0.08962172	0.06201263	0.1693786	0.03747391
SELENIUM	196.090	Axial	-0.00009996767	-0.003923936	-0.005135453	0.001347673	-0.007984028
SILICON	251.611	Axial	-9.69552	-0.01498583	-0.01558887	-0.01572693	-0.01364171
SILVER	328.068	Axial	5.268637	0.005846697	0.005804769	0.005532510	0.006202811
SODIUM	589.592	Radial	-38.3569	0.05668188	0.06666985	0.06657663	0.03679916
STRONTIUM	421.552	Radial	71.67216	0.006793096	0.006879306	0.006793306	0.006706677
SULFUR	182.034	Axial	3.417023	-0.01927311	-0.02772875	-0.01690283	-0.01318775
THALLIUM	190.856	Axial	-0.001703802	-0.003684261	-0.007715247	-0.0008072780	-0.002530259
TIN	189.989	Axial	-1.08054	-0.001041403	0.002259239	-0.001895816	-0.003487632
TITANIUM	334.941	Radial	-8.56142	-0.003692463	-0.003216713	-0.003863885	-0.003996793
VANADIUM	292.402	Radial	0.7952656	0.005567498	0.007105827	0.009684458	-0.00008779183
ZINC	206.200	Axial	169.9538	0.01992950	0.01961817	0.02014562	0.02002469

Sample ID: ICSAB Units: mg/l
Analyzed: 03/17/25 06:02 Sequence: 16 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4651.772	4583.310	4639.405	4732.601
YTTRIUM	360.073	Axial	46958.03	46493.95	47295.56	47084.56
YTTRIUM	360.073	Radial	4049.358	4077.979	4062.117	4007.979
INDIUM	230.606	Axial	961.9216	949.2286	966.9718	969.5643

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28091.70	512.0392	512.9020	512.6637	510.5517
ANTIMONY	206.833	Axial	66.26252	0.4816248	0.4790505	0.4901009	0.4757229
ARSENIC	189.042	Axial	93.59620	0.4849305	0.4857574	0.4826431	0.4863909
BARIUM	233.527	Axial	2585.595	0.4874725	0.4855548	0.4891380	0.4877246
BERYLLIUM	313.042	Radial	7860.261	0.5033725	0.5057501	0.5028714	0.5014960
BORON	249.678	Radial	197.6754	0.9733510	0.9756288	0.9814861	0.9629380
CADMIUM	228.802	Axial	1685.998	0.9861751	0.9920338	0.9947667	0.9717248
CALCIUM	373.690	Radial	48907.74	515.1129	516.5824	516.1952	512.5612
CERIUM	535.353	Radial	21.67836	0.1052184	0.09871197	0.1295126	0.08743057
CHROMIUM	267.716	Axial	1049.726	0.4883062	0.4865836	0.4912562	0.4870788
COBALT	228.616	Axial	442.8164	0.5349673	0.5344516	0.5342914	0.5361589
COPPER	324.754	Axial	2117.884	0.5133725	0.5146657	0.5119329	0.5135188
IRON	271.441	Radial	4079.871	203.5575	203.3230	203.6460	203.7035
LANTHANUM	333.749	Radial	-6.64443	-0.01176386	-0.01498091	-0.01111604	-0.009194635
LEAD	220.353	Axial	389.7677	1.043786	1.042174	1.044779	1.044406
LITHIUM	670.784	Radial	-9.99725	0.001713506	0.004453675	-0.0003587374	0.001045580
MAGNESIUM	279.079	Radial	43527.81	514.4994	514.4780	515.1876	513.8328
MANGANESE	257.610	Axial	9472.554	0.4896851	0.4890319	0.4914811	0.4885423
MOLYBDENUM	202.030	Axial	196.7912	0.4737898	0.4826643	0.4818446	0.4568605
NICKEL	231.604	Axial	788.9768	1.072614	1.068531	1.069045	1.080267
PHOSPHORUS	177.495	Axial	1.541090	-0.001221167	0.003032370	-0.003081593	-0.003614280
POTASSIUM	766.490	Radial	-25.5272	0.05904314	0.04268027	0.06854094	0.06590822
SELENIUM	196.090	Axial	62.74977	0.4779742	0.4766438	0.4830320	0.4742468
SILICON	251.611	Axial	866.9650	0.9324984	0.9253262	0.9323455	0.9398235
SILVER	328.068	Axial	3696.852	0.8788705	0.8850097	0.8700780	0.8815239
SODIUM	589.592	Radial	-34.1174	0.06796401	0.09443277	0.06819334	0.04126592
STRONTIUM	421.552	Radial	71.45502	0.006816121	0.006775377	0.006644152	0.007028835
SULFUR	182.034	Axial	4.423047	0.00008507571	-0.004626678	0.007989820	-0.003107914
THALLIUM	190.856	Axial	71.20626	0.4954285	0.4918322	0.4955899	0.4988634
TIN	189.989	Axial	166.1478	0.5264181	0.5229677	0.5246877	0.5315990
TITANIUM	334.941	Radial	781.7951	0.4900986	0.4886351	0.4883486	0.4933122
VANADIUM	292.402	Radial	287.1161	0.4964587	0.4918282	0.4971316	0.5004164
ZINC	206.200	Axial	2182.433	0.9611641	0.9582518	0.9670287	0.9582120

Sample ID: CCV Units: mg/l
Analyzed: 03/17/25 11:31 Sequence: 189 Standard ID: 25C17425

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4511.826	4453.112	4561.459	4520.907
YTTRIUM	360.073	Axial	47444.08	46896.27	47699.35	47736.62
YTTRIUM	360.073	Radial	4149.365	4168.678	4146.722	4132.694
INDIUM	230.606	Axial	1054.642	1040.516	1062.028	1061.383

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	557.1234	10.00270	9.991578	10.02881	9.987717
ANTIMONY	206.833	Axial	72.02865	0.5398551	0.5335557	0.5417332	0.5442763
ARSENIC	189.042	Axial	202.0117	1.088466	1.089581	1.087891	1.087924
BARIUM	233.527	Axial	2607.160	0.5067253	0.5043246	0.5066549	0.5091964
BERYLLIUM	313.042	Radial	3296.676	0.2058766	0.2063483	0.2053997	0.2058819
BORON	249.678	Radial	214.6569	1.031407	1.031111	1.031100	1.032011
CADMIUM	228.802	Axial	887.4056	0.5343441	0.5330294	0.5318191	0.5381839
CALCIUM	373.690	Radial	5096.749	52.40614	52.52452	52.31590	52.37800
CHROMIUM	267.716	Axial	2086.168	1.004599	1.002573	1.004697	1.006526
COBALT	228.616	Axial	892.5060	0.9884408	0.9872973	0.9892393	0.9887859
COPPER	324.754	Axial	4484.592	1.075279	1.071083	1.077657	1.077096
IRON	259.940	Radial	2558.015	10.24135	10.16044	10.46282	10.10077
LEAD	220.353	Axial	213.3795	0.5208368	0.5184466	0.5254474	0.5186165
LITHIUM	670.784	Radial	859.2170	0.9792755	0.9819185	0.9636095	0.9922984
MAGNESIUM	279.079	Radial	881.1687	10.19465	10.25602	10.16110	10.16684
MANGANESE	257.610	Axial	18897.76	1.006340	1.003603	1.005809	1.009608
MOLYBDENUM	202.030	Axial	106.4151	0.2640260	0.2642578	0.2617532	0.2660671
NICKEL	231.604	Axial	810.3076	1.004955	1.002758	1.007141	1.004967
PHOSPHORUS	177.495	Axial	201.7141	1.096938	1.098060	1.091997	1.100756
POTASSIUM	766.490	Radial	4996.896	51.53231	51.09924	51.93192	51.56576
SELENIUM	196.090	Axial	139.3586	1.099469	1.096749	1.097028	1.104631
SILICON	251.611	Axial	2026.378	2.163359	2.161779	2.144435	2.183862
SILVER	328.068	Axial	2230.272	0.5266057	0.5245041	0.5287489	0.5265641
SODIUM	818.326	Radial	244.3230	49.54606	48.89419	51.32477	48.41922
STRONTIUM	421.552	Radial	10536.75	1.030186	1.029589	1.020992	1.039978
SULFUR	182.034	Axial	290.6688	5.577720	5.563602	5.577766	5.591791
THALLIUM	190.856	Axial	165.5505	1.054694	1.048686	1.065411	1.049986
TIN	189.989	Axial	179.3960	0.5184411	0.5121545	0.5223360	0.5208329
TITANIUM	334.941	Radial	1676.538	1.023858	1.031593	1.009057	1.030922
VANADIUM	292.402	Radial	612.1154	1.028271	1.027829	1.033910	1.023075
ZINC	206.200	Axial	2318.074	1.058264	1.063783	1.038044	1.072966
CERIUM	535.353	Radial	14.48366	0.01693012	-0.01871757	0.05227672	0.01723120
LANTHANUM	333.749	Radial	-7.12599	-0.01239534	-0.01001097	-0.01419650	-0.01297855

Sample ID: CCB Units: mg/l
Analyzed: 03/17/25 11:33 Sequence: 190

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4336.504	4312.646	4344.740	4352.127
YTTRIUM	360.073	Axial	46193.08	46019.36	45766.62	46793.26
YTTRIUM	360.073	Radial	4252.857	4257.998	4227.850	4272.724
INDIUM	230.606	Axial	1038.752	1027.994	1034.125	1054.137

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.61579	-0.003170273	-0.002990262	0.01804236	-0.02456291
ANTIMONY	206.833	Axial	0.3616991	0.001597941	0.008075346	-0.003409412	0.0001278893
ARSENIC	189.042	Axial	0.9452267	-0.002289410	-0.003947448	-0.00004940277	-0.002871378
BARIUM	233.527	Axial	-3.29110	0.0007833847	0.0007253491	0.0005539450	0.001070860
BERYLLIUM	313.042	Radial	5.065054	0.00004000127	0.00008151390	-0.0001192372	0.0001577271
BORON	249.678	Radial	0.05110229	0.002553567	0.009301543	-0.004328027	0.002687184
CADMIUM	228.802	Axial	3.309288	0.0004324283	0.0005279886	0.0006923028	0.00007699349
CALCIUM	317.933	Radial	18.05611	0.0006383561	-0.0006065831	0.009550288	-0.007028637
CERIUM	535.353	Radial	15.57021	0.02500707	0.04213081	0.03232677	0.0005636248
CHROMIUM	267.716	Axial	8.280227	0.0002792002	0.001161046	-0.0002687461	-0.00005469981
COBALT	228.616	Axial	4.461493	-0.0009135078	-0.0006128129	-0.001122120	-0.001005591
COPPER	324.754	Axial	-6.14226	-0.0009623623	-0.001158178	-0.001107216	-0.0006216933
IRON	259.940	Radial	3.074681	-0.002473641	-0.002981787	-0.007639876	0.003200740
LANTHANUM	333.749	Radial	-3.83424	-0.005872596	-0.005406705	-0.005125616	-0.007085467
LEAD	220.353	Axial	0.3191436	0.0001075668	-0.0006870093	-0.0003330437	0.001342753
LITHIUM	670.784	Radial	-11.2220	0.0009166649	0.007342829	-0.004320098	-0.0002727368
MAGNESIUM	279.079	Radial	-1.68163	0.01203468	0.01698057	0.01341712	0.005706362
MANGANESE	257.610	Axial	-8.92988	0.0003219143	0.0005026404	0.0002462348	0.0002168678
MOLYBDENUM	202.030	Axial	0.3668315	0.0008483608	0.004907395	-0.002552677	0.0001903644
NICKEL	231.604	Axial	-0.8329986	0.001755674	0.003645362	0.0003391610	0.001282499
PHOSPHORUS	177.495	Axial	1.702645	0.0002557286	-0.002484234	0.0008537998	0.002397620
POTASSIUM	766.490	Radial	-11.3987	0.2131088	0.2413625	0.2140552	0.1839086
SELENIUM	196.090	Axial	0.5539431	0.0006317098	0.002907156	0.0002507281	-0.001262754
SILICON	251.611	Axial	6.224785	0.002194299	0.002558781	-0.0001358245	0.004159939
SILVER	328.068	Axial	-20.3879	-0.0002839557	-0.0007105731	0.0003128105	-0.0004541044
SODIUM	589.592	Radial	-0.5871109	0.1631785	0.1753449	0.1754513	0.1387393
STRONTIUM	421.552	Radial	5.147880	0.0001454695	0.0001584130	0.0001979294	0.00008006614
SULFUR	182.034	Axial	4.095099	-0.0004951739	-0.002783300	-0.0002187910	0.001516569
THALLIUM	190.856	Axial	-0.8455250	-0.009178047	-0.008912797	-0.01348195	-0.005139391
TIN	189.989	Axial	0.03292652	0.002450015	0.003179094	0.003266500	0.0009044514
TITANIUM	334.941	Radial	-1.46914	0.0007527615	0.00001721730	0.001754219	0.0004868478
VANADIUM	292.402	Radial	-1.93694	0.001076214	-0.001155289	-0.0002447178	0.004628650
ZINC	206.200	Axial	120.5853	0.001400020	0.001331260	0.001678617	0.001190183

Sample ID: BLANK DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:34 Sequence: 191

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4252.613	4189.862	4269.496	4298.483
YTTRIUM	360.073	Axial	45568.34	44997.48	45707.36	46000.18
YTTRIUM	360.073	Radial	4295.146	4304.943	4274.035	4306.460
INDIUM	230.606	Axial	1039.159	1022.054	1045.477	1049.946

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.447919	0.0007798851	0.009500801	-0.002632086	-0.004529059
BARIUM	233.527	Axial	-7.01123	0.00001003830	0.0005940913	-0.0002512380	-0.0003127384
BORON	249.678	Radial	-0.5643534	-0.0002770696	-0.001156145	0.002022070	-0.001697134
CADMIUM	228.802	Axial	3.507180	0.0005971069	0.0004496006	-0.00004720066	0.001388921
CHROMIUM	267.716	Axial	8.786002	0.0006139244	-0.0002425462	0.001855245	0.0002290746
COBALT	228.616	Axial	4.112048	-0.001295262	0.0008522496	-0.003153413	-0.001584621
LEAD	220.353	Axial	1.395379	0.002785463	0.002791849	0.002084925	0.003479614
LITHIUM	670.784	Radial	-12.2189	-0.00003296389	0.005397887	0.0001061387	-0.005602917
SELENIUM	196.090	Axial	0.5954424	0.0009317568	-0.01272145	-0.005956456	0.02147318
SILVER	328.068	Axial	-24.6240	-0.001387204	-0.001708851	-0.001090618	-0.001362143
ALUMINUM	308.215	Radial	-4.78246	0.01204170	0.004292914	0.01613029	0.01570190
ANTIMONY	206.833	Axial	0.3833000	0.001800398	0.001223859	0.0001418852	0.004035449
BERYLLIUM	313.042	Radial	2.475625	-0.0001187809	-0.00007181995	-0.00005216954	-0.0002323533
CALCIUM	317.933	Radial	22.13672	0.01741368	0.02268997	0.01870244	0.01084862
CERIUM	535.353	Radial	14.59222	0.01261919	-0.02346774	0.08415683	-0.02283150
COPPER	324.754	Axial	-3.22011	-0.0002464455	0.0005396978	-0.0004416681	-0.0008373661
IRON	259.940	Radial	3.484463	-0.0009885393	-0.0008152144	-0.001956302	-0.0001941016
LANTHANUM	333.749	Radial	-1.30856	-0.001108113	0.002790932	-0.0009202399	-0.005195032
MAGNESIUM	279.079	Radial	-2.37397	0.004489170	-0.004048763	0.002316593	0.01519968
MANGANESE	257.610	Axial	-12.6246	0.0001026328	0.00004640364	0.0001170896	0.0001444053
MOLYBDENUM	202.030	Axial	-0.05245279	-0.0002513402	-0.001318961	0.002039747	-0.001474806
NICKEL	231.604	Axial	-1.43548	0.0009829348	-0.0004875442	0.003084592	0.0003517563
PHOSPHORUS	177.495	Axial	3.492254	0.01085133	0.007888529	0.01399711	0.01066834
POTASSIUM	766.490	Radial	-13.2814	0.1957216	0.1123219	0.2650172	0.2098257
SILICON	251.611	Axial	10.81931	0.007419022	0.007600473	0.005739137	0.008917458
SODIUM	589.592	Radial	15.04927	0.2048618	0.2197926	0.2008145	0.1939784
STRONTIUM	421.552	Radial	5.848685	0.0002071903	0.000001042501	0.0004324442	0.0001880842
SULFUR	182.034	Axial	5.276904	0.02551132	0.01999982	0.02066448	0.03586968
THALLIUM	190.856	Axial	-0.5406376	-0.007207569	-0.01194972	-0.002262191	-0.007410799
TIN	189.989	Axial	3.244777	0.01182117	0.01226287	0.01188636	0.01131429
TITANIUM	334.941	Radial	-1.77917	0.0005754630	0.001024020	0.0003120870	0.0003902816
VANADIUM	292.402	Radial	-0.4944447	0.003445886	0.003134660	0.003467604	0.003735395
ZINC	206.200	Axial	117.6828	0.001116129	0.002102227	0.0006727643	0.0005733958

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:36 Sequence: 192

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4477.911	4460.562	4463.175	4509.997
YTTRIUM	360.073	Axial	47284.69	46946.28	47043.11	47864.68
YTTRIUM	360.073	Radial	4222.140	4208.798	4250.236	4207.385
INDIUM	230.606	Axial	1056.490	1045.339	1054.409	1069.722

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	211.7109	1.149850	1.151134	1.167187	1.131228
BARIUM	233.527	Axial	5321.989	1.040687	1.030207	1.046241	1.045612
BORON	249.678	Radial	221.2490	1.044752	1.053606	1.037066	1.043583
CADMIUM	228.802	Axial	1870.492	1.136672	1.128388	1.142794	1.138836
CHROMIUM	267.716	Axial	2122.890	1.030120	1.020081	1.036696	1.033583
COBALT	228.616	Axial	913.5023	1.010053	1.009656	1.008874	1.011630
LEAD	220.353	Axial	445.0494	1.085217	1.089201	1.085667	1.080782
LITHIUM	670.784	Radial	868.8488	0.9732693	0.9705890	0.9697051	0.9795138
SELENIUM	196.090	Axial	143.2083	1.138511	1.135840	1.131698	1.147993
SILVER	328.068	Axial	840.6795	0.2020562	0.2018623	0.2046988	0.1996076
ALUMINUM	308.215	Radial	607.2510	10.70824	10.73676	10.65589	10.73208
ANTIMONY	206.833	Axial	150.0953	1.134970	1.132358	1.148200	1.124352
BERYLLIUM	313.042	Radial	17274.34	1.061295	1.060529	1.063477	1.059879
CALCIUM	317.933	Radial	2420.420	10.52679	10.54772	10.51002	10.52263
CERIUM	535.353	Radial	22.25950	0.1015340	0.1169093	0.06841868	0.1192741
COPPER	324.754	Axial	4781.108	1.150253	1.145871	1.159756	1.145132
IRON	259.940	Radial	2730.651	10.74500	10.80703	10.68660	10.74135
LANTHANUM	333.749	Radial	-14.3903	-0.02589075	-0.02410416	-0.02684045	-0.02672764
MAGNESIUM	279.079	Radial	921.5476	10.47730	10.50346	10.48498	10.44346
MANGANESE	257.610	Axial	19128.23	1.026310	1.020610	1.028487	1.029834
MOLYBDENUM	202.030	Axial	458.8781	1.147469	1.141007	1.152812	1.148587
NICKEL	231.604	Axial	840.2723	1.040259	1.040420	1.049667	1.030692
PHOSPHORUS	177.495	Axial	210.0491	1.151377	1.158179	1.149442	1.146510
POTASSIUM	766.490	Radial	1043.523	10.83621	10.92694	10.76194	10.81976
SILICON	251.611	Axial	976.4519	1.043623	1.033124	1.061389	1.036355
SODIUM	589.592	Radial	3966.771	10.93493	10.93544	10.96987	10.89949
STRONTIUM	421.552	Radial	11175.76	1.073814	1.071899	1.078954	1.070589
SULFUR	182.034	Axial	594.7325	11.58806	11.63246	11.65297	11.47875
THALLIUM	190.856	Axial	173.7330	1.105118	1.114970	1.091907	1.108478
TIN	189.989	Axial	383.1310	1.102757	1.100491	1.113675	1.094106
TITANIUM	334.941	Radial	1772.787	1.063914	1.069958	1.064929	1.056855
VANADIUM	292.402	Radial	645.7576	1.065942	1.066751	1.064430	1.066644
ZINC	206.200	Axial	2445.335	1.128427	1.113918	1.140370	1.130992

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835037-06 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:38 Sequence: 193

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5041.854	5068.452	5098.781	4958.329
YTTRIUM	360.073	Axial	51125.12	51195.20	51249.02	50931.14
YTTRIUM	360.073	Radial	4392.176	4414.515	4398.792	4363.221
INDIUM	230.606	Axial	1013.884	1013.422	1012.706	1015.524

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	15.10636	0.06575747	0.06150817	0.06572601	0.07003823
BARIUM	233.527	Axial	8442.523	1.465769	1.454683	1.463744	1.478881
BORON	249.678	Radial	8.498576	0.04080719	0.04353794	0.04205072	0.03683290
CADMIUM	228.802	Axial	8.064322	0.002708772	0.003179761	0.002596672	0.002349884
CHROMIUM	267.716	Axial	263.5019	0.1101211	0.1087231	0.1093007	0.1123397
COBALT	228.616	Axial	96.81166	0.1062397	0.1053865	0.1065590	0.1067735
LEAD	220.353	Axial	122.6287	0.3110994	0.3127657	0.3145456	0.3059868
LITHIUM	670.784	Radial	168.3799	0.1920886	0.1910653	0.1916617	0.1935390
SELENIUM	196.090	Axial	-0.8436525	-0.009846763	-0.01335652	-0.01454688	-0.001636888
SILVER	328.068	Axial	3.466445	0.005367685	0.005316016	0.005570426	0.005216613
ALUMINUM	308.215	Radial	10327.60	173.6182	173.0907	174.1055	173.6585
ANTIMONY	206.833	Axial	0.8208593	0.004304919	0.005790893	-0.0003464517	0.007470316
BERYLLIUM	313.042	Radial	160.2025	0.009195309	0.009312604	0.009054820	0.009218504
CALCIUM	373.690	Radial	13545.54	131.5494	131.5956	131.4334	131.6193
CERIUM	535.353	Radial	62.97236	0.5316791	0.5489717	0.5121148	0.5339506
COPPER	324.754	Axial	2317.442	0.5159540	0.5115658	0.5168054	0.5194907
IRON	271.441	Radial	4098.139	188.5037	188.8402	188.6939	187.9770
LANTHANUM	333.749	Radial	104.3878	0.1911188	0.1916035	0.1900234	0.1917295
MAGNESIUM	279.079	Radial	5987.496	65.27396	65.60241	65.47291	64.74658
MANGANESE	257.610	Axial	108702.0	5.176948	5.152795	5.172097	5.205953
MOLYBDENUM	202.030	Axial	3.979658	0.008743713	0.007369225	0.008341448	0.01052047
NICKEL	231.604	Axial	99.13379	0.1303317	0.1322912	0.1298256	0.1288783
PHOSPHORUS	177.495	Axial	1571.126	7.703931	7.566172	7.605937	7.939685
POTASSIUM	766.490	Radial	3639.717	35.56286	35.46648	35.48095	35.74115
SILICON	251.611	Axial	19816.24	19.67045	19.71584	19.45697	19.83854
SODIUM	589.592	Radial	2792.216	7.452483	7.448280	7.453967	7.455201
STRONTIUM	421.552	Radial	11083.12	1.023674	1.019927	1.033721	1.017375
SULFUR	182.034	Axial	243.7501	4.165720	4.112558	4.118223	4.266380
THALLIUM	190.856	Axial	-1.17178	-0.01145622	-0.01240900	-0.009945511	-0.01201415
TIN	189.989	Axial	5.331051	0.01829709	0.01926914	0.01761822	0.01800390
TITANIUM	334.941	Radial	9697.438	5.587473	5.591890	5.623482	5.547047
VANADIUM	292.402	Radial	243.4355	0.3889837	0.3889063	0.3890224	0.3890225
ZINC	206.200	Axial	1880.884	0.7523537	0.7451317	0.7375408	0.7743887

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1835037-06 Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:39 Sequence: 194

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4709.066	4758.148	4663.100	4705.949
YTTRIUM	360.073	Axial	49524.51	49772.00	49084.90	49716.64
YTTRIUM	360.073	Radial	4269.991	4282.270	4248.025	4279.677
INDIUM	230.606	Axial	1069.644	1076.613	1060.770	1071.550

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	3.809916	0.01217958	0.07039778	0.06442649	0.04786943
BARIUM	233.527	Axial	1628.439	0.3038370	1.513542	1.518203	1.525810
BORON	249.678	Radial	2.225979	0.01270092	0.06756527	0.06378905	0.05915941
CADMIUM	228.802	Axial	4.884013	0.001176207	0.007744854	0.003956275	0.005941982
CHROMIUM	267.716	Axial	56.78423	0.02241416	0.1095304	0.1107665	0.1159156
COBALT	228.616	Axial	24.50805	0.02095510	0.1117880	0.09820514	0.1043332
LEAD	220.353	Axial	25.19355	0.06003046	0.3027911	0.2902539	0.3074118
LITHIUM	670.784	Radial	24.85018	0.04038750	0.2070919	0.2018382	0.1968824
SELENIUM	196.090	Axial	0.2936944	-0.001705346	-0.005955796	0.002772336	-0.02239673
SILVER	328.068	Axial	-18.5120	0.0004624036	-0.001353816	-0.0002440650	0.008533935
ALUMINUM	308.215	Radial	2040.533	35.36026	176.8983	177.1850	176.3206
ANTIMONY	206.833	Axial	1.520986	0.009755358	-0.02214264	0.05006864	0.1184044
BERYLLIUM	313.042	Radial	33.79608	0.001785312	0.008173967	0.009265837	0.009339872
CALCIUM	317.933	Radial	6036.092	26.07150	131.1105	129.7220	130.2399
CERIUM	535.353	Radial	23.61705	0.1138330	0.5433341	0.8171975	0.3469641
COPPER	324.754	Axial	456.7981	0.1054270	0.5209283	0.5271816	0.5332945
IRON	271.441	Radial	810.0702	38.29218	192.0382	192.2767	190.0679
LANTHANUM	333.749	Radial	19.08183	0.03700692	0.1638280	0.1761123	0.2151637
MAGNESIUM	279.079	Radial	1194.579	13.42058	67.51705	67.13527	66.65636
MANGANESE	257.610	Axial	20704.83	1.056399	5.236348	5.290045	5.319595
MOLYBDENUM	202.030	Axial	0.2632118	0.0005110484	0.006413635	-0.001913283	0.003165374
NICKEL	231.604	Axial	16.73028	0.02319002	0.1174420	0.1070757	0.1233326
PHOSPHORUS	177.495	Axial	317.8415	1.661003	8.166271	8.406637	8.342135
POTASSIUM	766.490	Radial	669.1311	6.99012	35.01359	35.01306	34.82515
SILICON	251.611	Axial	4704.002	4.816886	24.03523	24.27629	23.94179
SODIUM	589.592	Radial	546.4219	1.631699	8.262334	8.183486	8.029668
STRONTIUM	421.552	Radial	2211.199	0.2097964	1.060795	1.031295	1.054855
SULFUR	182.034	Axial	51.76210	0.8825776	4.326887	4.510092	4.401683
THALLIUM	190.856	Axial	0.4081528	-0.001090266	-0.01814891	-0.009574732	0.01136965
TIN	189.989	Axial	-0.001796534	0.002334398	0.02237171	0.01226378	0.0003804861
TITANIUM	334.941	Radial	1935.300	1.148302	5.775103	5.740798	5.708632
VANADIUM	292.402	Radial	47.95504	0.08219512	0.4260979	0.3933765	0.4134523
ZINC	206.200	Axial	485.9404	0.1653465	0.8124931	0.8347995	0.8329047

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1835037-06 Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:41 Sequence: 195

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5012.317	5013.303	4988.336	5035.312
YTTRIUM	360.073	Axial	50717.55	50985.01	50565.37	50602.28
YTTRIUM	360.073	Radial	4370.186	4340.449	4366.182	4403.928
INDIUM	230.606	Axial	1005.696	1005.155	1004.832	1007.102

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	228.7997	1.109845	1.095408	1.116154	1.117972
BARIUM	233.527	Axial	14069.78	2.456031	2.445321	2.468142	2.454631
BORON	249.678	Radial	235.5932	1.074669	1.071771	1.066544	1.085691
CADMIUM	228.802	Axial	1896.244	1.029323	1.026515	1.033218	1.028238
CHROMIUM	267.716	Axial	2574.618	1.116449	1.112103	1.115818	1.121427
COBALT	228.616	Axial	1076.348	1.251645	1.250205	1.250556	1.254173
LEAD	220.353	Axial	574.3050	1.471321	1.469373	1.474122	1.470466
LITHIUM	670.784	Radial	1215.328	1.310681	1.319533	1.323144	1.289366
SELENIUM	196.090	Axial	142.2937	1.010280	0.9943688	1.038379	0.9980928
SILVER	328.068	Axial	923.3785	0.2067892	0.2055198	0.2075218	0.2073261
ALUMINUM	308.215	Radial	10829.64	182.9660	183.0219	182.1034	183.7726
ANTIMONY	206.833	Axial	151.9326	1.026213	1.010226	1.031163	1.037250
BERYLLIUM	313.042	Radial	17992.07	1.067968	1.073435	1.063950	1.066520
CALCIUM	373.690	Radial	14370.47	140.2633	140.6547	140.2119	139.9233
CERIUM	535.353	Radial	63.37530	0.5394262	0.5364415	0.5209295	0.5609075
COPPER	324.754	Axial	7124.204	1.597748	1.578688	1.601939	1.612618
IRON	271.441	Radial	4264.029	197.1251	197.6678	196.2325	197.4749
LANTHANUM	333.749	Radial	89.85259	0.1655183	0.1659970	0.1667879	0.1637700
MAGNESIUM	279.079	Radial	6810.650	74.61921	74.90178	74.21740	74.73844
MANGANESE	257.610	Axial	127403.3	6.102950	6.088618	6.109270	6.110961
MOLYBDENUM	202.030	Axial	453.2804	1.012636	1.009885	1.020930	1.007092
NICKEL	231.604	Axial	984.5578	1.279741	1.276747	1.280067	1.282410
PHOSPHORUS	177.495	Axial	1762.136	8.690950	8.625441	8.864054	8.583356
POTASSIUM	766.490	Radial	4772.165	46.75763	46.84186	46.59596	46.83506
SILICON	251.611	Axial	23208.61	23.22386	23.05172	23.38365	23.23622
SODIUM	589.592	Radial	6964.899	18.43473	18.45310	18.39134	18.45975
STRONTIUM	421.552	Radial	22078.51	2.049866	2.043149	2.056922	2.049527
SULFUR	182.034	Axial	851.8330	14.85122	14.75488	15.04042	14.75834
THALLIUM	190.856	Axial	168.2201	1.124153	1.115727	1.142412	1.114321
TIN	189.989	Axial	384.6195	1.162788	1.148831	1.174765	1.164770
TITANIUM	334.941	Radial	11391.86	6.596641	6.620870	6.557493	6.611559
VANADIUM	292.402	Radial	898.1567	1.430883	1.432752	1.427921	1.431976
ZINC	206.200	Axial	4143.552	1.738650	1.707769	1.771954	1.736227

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1835037-06 Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:43 Sequence: 196

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5032.735	5003.523	5071.301	5023.382
YTTRIUM	360.073	Axial	51109.53	50627.88	51655.60	51045.09
YTTRIUM	360.073	Radial	4403.201	4401.650	4422.134	4385.820
INDIUM	230.606	Axial	1011.607	994.9983	1018.497	1021.326

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	216.3386	1.044693	1.043972	1.046256	1.043850
BARIUM	233.527	Axial	14541.73	2.527994	2.518728	2.542062	2.523194
BORON	249.678	Radial	223.3163	1.011182	1.004913	1.021094	1.007540
CADMIUM	228.802	Axial	1822.881	0.9853895	0.9757926	0.9872223	0.9931536
CHROMIUM	267.716	Axial	2484.990	1.073054	1.064513	1.074231	1.080419
COBALT	228.616	Axial	1031.803	1.192626	1.199960	1.198546	1.179371
LEAD	220.353	Axial	559.3893	1.424765	1.430020	1.432750	1.411525
LITHIUM	670.784	Radial	1180.923	1.264385	1.263538	1.278297	1.251321
SELENIUM	196.090	Axial	132.5644	0.9370401	0.9332631	0.9354918	0.9423655
SILVER	328.068	Axial	875.6091	0.1948635	0.1946685	0.1929933	0.1969286
ALUMINUM	308.215	Radial	12701.81	212.9741	212.5764	213.2297	213.1162
ANTIMONY	206.833	Axial	68.93040	0.4630351	0.4667061	0.4581495	0.4642496
BERYLLIUM	313.042	Radial	17198.09	1.013159	1.013835	1.012292	1.013349
CALCIUM	373.690	Radial	14470.04	140.1749	140.3015	139.9906	140.2325
CERIUM	535.353	Radial	69.09795	0.5960558	0.5425704	0.6059893	0.6396078
COPPER	324.754	Axial	7025.005	1.563344	1.562276	1.572001	1.555756
IRON	271.441	Radial	4300.768	197.3325	196.6250	197.7448	197.6276
LANTHANUM	333.749	Radial	102.2154	0.1867114	0.1863984	0.1836438	0.1900919
MAGNESIUM	279.079	Radial	7100.480	77.21007	77.09283	77.25774	77.27963
MANGANESE	257.610	Axial	127014.6	6.059563	6.025498	6.073472	6.079720
MOLYBDENUM	202.030	Axial	425.5307	0.9467298	0.9358262	0.9511287	0.9532344
NICKEL	231.604	Axial	948.7280	1.226107	1.228905	1.225505	1.223911
PHOSPHORUS	177.495	Axial	1836.841	9.022397	8.970529	9.047460	9.049202
POTASSIUM	766.490	Radial	5124.273	49.81029	49.64252	49.66090	50.12744
SILICON	251.611	Axial	21512.37	21.36097	21.34577	21.26148	21.47567
SODIUM	589.592	Radial	7123.213	18.71011	18.65428	18.67629	18.79974
STRONTIUM	421.552	Radial	22881.73	2.108500	2.095449	2.126645	2.103406
SULFUR	182.034	Axial	825.0057	14.32169	14.32535	14.34323	14.29648
THALLIUM	190.856	Axial	161.1420	1.070407	1.073617	1.070526	1.067077
TIN	189.989	Axial	342.2374	1.028921	1.033506	1.027115	1.026142
TITANIUM	334.941	Radial	12316.42	7.078300	7.058457	7.131628	7.044815
VANADIUM	292.402	Radial	870.4275	1.376464	1.376491	1.378741	1.374161
ZINC	206.200	Axial	4164.192	1.740210	1.725488	1.736269	1.758871

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1835037-06 Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:44 Sequence: 197

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5077.665	5022.236	5079.124	5131.636
YTTRIUM	360.073	Axial	51145.16	50834.99	50702.22	51898.25
YTTRIUM	360.073	Radial	4417.716	4417.315	4427.939	4407.895
INDIUM	230.606	Axial	1010.956	1004.346	999.8662	1028.657

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	218.0927	1.043847	1.045860	1.040523	1.045158
BARIUM	233.527	Axial	15016.40	2.587313	2.576755	2.572898	2.612285
BORON	249.678	Radial	223.0798	1.006818	1.006159	1.010169	1.004126
CADMIUM	228.802	Axial	1825.597	0.9781230	0.9777196	0.9764405	0.9802089
CHROMIUM	267.716	Axial	2497.361	1.068824	1.068045	1.062044	1.076384
COBALT	228.616	Axial	1039.716	1.202511	1.199954	1.203217	1.204364
LEAD	220.353	Axial	566.8628	1.444698	1.437157	1.452391	1.444544
LITHIUM	670.784	Radial	1217.851	1.299312	1.306424	1.293005	1.298507
SELENIUM	196.090	Axial	131.3005	0.9198154	0.9265274	0.9038847	0.9290340
SILVER	328.068	Axial	886.2841	0.1970457	0.1968796	0.1976891	0.1965683
ALUMINUM	308.215	Radial	13150.07	219.7615	220.0111	220.5638	218.7097
ANTIMONY	206.833	Axial	66.81329	0.4447834	0.4496312	0.4374835	0.4472354
BERYLLIUM	313.042	Radial	17362.95	1.019505	1.021624	1.021879	1.015012
CALCIUM	373.690	Radial	14628.69	141.2458	141.5064	141.0391	141.1919
CERIUM	535.353	Radial	67.12388	0.5723832	0.5908606	0.5500924	0.5761967
COPPER	324.754	Axial	7139.688	1.587794	1.589245	1.587268	1.586870
IRON	271.441	Radial	4351.240	198.9929	199.0541	199.0044	198.9203
LANTHANUM	333.749	Radial	103.2608	0.1879788	0.1864091	0.1915649	0.1859624
MAGNESIUM	279.079	Radial	7225.645	78.31254	78.17403	78.34893	78.41466
MANGANESE	257.610	Axial	134298.2	6.350218	6.344865	6.305946	6.399843
MOLYBDENUM	202.030	Axial	413.9438	0.9127685	0.9134604	0.8948356	0.9300096
NICKEL	231.604	Axial	956.4382	1.236836	1.230276	1.244217	1.236015
PHOSPHORUS	177.495	Axial	1810.347	8.813336	8.861688	8.664472	8.913849
POTASSIUM	766.490	Radial	5281.519	51.16042	51.00589	51.32595	51.14942
SILICON	251.611	Axial	21496.75	21.33095	21.01887	21.70122	21.27278
SODIUM	589.592	Radial	7229.487	18.92480	18.82571	18.96782	18.98085
STRONTIUM	421.552	Radial	22958.95	2.108710	2.129124	2.092171	2.104834
SULFUR	182.034	Axial	861.3672	14.82393	14.95955	14.64574	14.86650
THALLIUM	190.856	Axial	160.8296	1.068868	1.053030	1.069738	1.083835
TIN	189.989	Axial	339.7489	1.021956	1.012911	1.017107	1.035851
TITANIUM	334.941	Radial	11970.46	6.857073	6.884931	6.820216	6.866074
VANADIUM	292.402	Radial	873.0718	1.376115	1.377298	1.376762	1.374286
ZINC	206.200	Axial	4221.766	1.748868	1.733050	1.757441	1.756113

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835037-04 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:46 Sequence: 198

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5283.051	5255.003	5303.408	5290.743
YTTRIUM	360.073	Axial	53344.13	52955.10	53298.29	53779.01
YTTRIUM	360.073	Radial	4598.719	4614.406	4581.669	4600.080
INDIUM	230.606	Axial	998.1677	983.0117	996.0686	1015.423

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	22.32266	0.09583102	0.1014893	0.09318752	0.09281621
BARIUM	233.527	Axial	14005.91	2.319677	2.328955	2.314016	2.316060
CADMIUM	228.802	Axial	13.19953	0.005161312	0.005230287	0.005000691	0.005252959
CHROMIUM	267.716	Axial	436.4123	0.1762873	0.1766994	0.1748361	0.1773265
LEAD	220.353	Axial	291.7530	0.7529310	0.7660761	0.7583001	0.7344168
SELENIUM	196.090	Axial	-1.49042	-0.01402327	-0.01590431	-0.01083122	-0.01533430
SILVER	328.068	Axial	28.08292	0.01045614	0.01021829	0.009241879	0.01190826
ALUMINUM	308.215	Radial	21673.09	347.8869	348.6243	347.4952	347.5412
ANTIMONY	206.833	Axial	2.372619	0.01399931	0.02207198	0.008648633	0.01127730
BERYLLIUM	313.042	Radial	338.5909	0.01883494	0.01898651	0.01871983	0.01879847
BORON	249.678	Radial	22.64714	0.1002829	0.1029199	0.09432307	0.1036057
CALCIUM	373.690	Radial	15462.74	143.4228	143.4803	143.9764	142.8117
CERIUM	535.353	Radial	101.4307	0.8980204	0.9350393	0.8981795	0.8608425
COBALT	228.616	Axial	153.9154	0.1752490	0.1773410	0.1746823	0.1737238
COPPER	324.754	Axial	4804.967	1.024722	1.025037	1.025253	1.023875
IRON	271.441	Radial	6445.697	283.1928	284.3016	282.8096	282.4673
LANTHANUM	333.749	Radial	201.8787	0.3518822	0.3564312	0.3521564	0.3470590
LITHIUM	670.784	Radial	359.2761	0.3777046	0.3764722	0.3756855	0.3809562
MAGNESIUM	279.079	Radial	9396.481	97.82395	97.93508	97.70325	97.83351
MANGANESE	257.610	Axial	231125.6	10.50373	10.56867	10.48022	10.46230
MOLYBDENUM	202.030	Axial	7.689936	0.01619239	0.01581381	0.01356447	0.01919890
NICKEL	231.604	Axial	172.7737	0.2285864	0.2294919	0.2298503	0.2264170
PHOSPHORUS	177.495	Axial	2079.753	9.732687	9.767321	9.523211	9.907529
POTASSIUM	766.490	Radial	7798.231	72.42942	72.42951	72.57649	72.28227
SILICON	251.611	Axial	20512.91	19.51507	19.68964	19.38028	19.47530
SODIUM	589.592	Radial	6695.575	16.85542	16.89955	16.85307	16.81363
STRONTIUM	421.552	Radial	13571.06	1.197249	1.189786	1.194344	1.207616
SULFUR	182.034	Axial	269.7045	4.402672	4.403797	4.370328	4.433891
THALLIUM	190.856	Axial	-1.00298	-0.01041910	-0.009960680	-0.008044089	-0.01325254
TIN	189.989	Axial	6.510547	0.02215337	0.02522739	0.02003602	0.02119670
TITANIUM	334.941	Radial	9311.596	5.124434	5.116512	5.119632	5.137157
VANADIUM	292.402	Radial	324.5933	0.4941971	0.4989485	0.4889533	0.4946896
ZINC	206.200	Axial	3376.367	1.330690	1.326456	1.313567	1.352049

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835037-05 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:48 Sequence: 199

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5117.136	5149.731	5133.252	5068.426
YTTRIUM	360.073	Axial	51878.29	51669.02	52096.97	51868.89
YTTRIUM	360.073	Radial	4502.155	4505.805	4507.452	4493.208
INDIUM	230.606	Axial	997.4212	993.8597	1002.918	995.4855

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	17.82543	0.07766580	0.07733531	0.07557743	0.08008465
BARIUM	233.527	Axial	11003.50	1.881836	1.870790	1.876432	1.898286
CADMIUM	228.802	Axial	10.51172	0.003951960	0.004046628	0.003463180	0.004346072
CHROMIUM	267.716	Axial	341.2108	0.1415519	0.1402232	0.1424711	0.1419612
LEAD	220.353	Axial	190.9110	0.4927194	0.5006812	0.4893170	0.4881601
SELENIUM	196.090	Axial	-0.8503094	-0.009872092	-0.009026712	-0.01150057	-0.009088991
SILVER	328.068	Axial	16.13921	0.008071076	0.008912497	0.007845584	0.007455149
ALUMINUM	308.215	Radial	15428.39	252.9878	252.3660	253.6699	252.9274
ANTIMONY	206.833	Axial	1.545122	0.009000079	0.001468963	0.01581379	0.009717485
BERYLLIUM	313.042	Radial	237.0628	0.01339387	0.01336996	0.01332720	0.01348445
BORON	249.678	Radial	16.09544	0.07344584	0.07428384	0.07360927	0.07244440
CALCIUM	373.690	Radial	20421.84	193.4745	193.1640	194.3192	192.9402
CERIUM	535.353	Radial	84.76951	0.7448735	0.7542358	0.7272944	0.7530903
COBALT	228.616	Axial	120.2198	0.1356738	0.1364845	0.1339066	0.1366303
COPPER	324.754	Axial	3461.842	0.7592791	0.7555088	0.7592270	0.7631015
IRON	271.441	Radial	5184.254	232.6496	233.0704	232.3895	232.4890
LANTHANUM	333.749	Radial	148.7464	0.2651621	0.2693126	0.2617025	0.2644711
LITHIUM	670.784	Radial	257.3828	0.2799371	0.2805488	0.2825705	0.2766920
MAGNESIUM	279.079	Radial	7911.800	84.13842	84.19873	84.24993	83.96659
MANGANESE	257.610	Axial	165950.9	7.786849	7.747329	7.734820	7.878398
MOLYBDENUM	202.030	Axial	5.930130	0.01286573	0.01192880	0.01467967	0.01198872
NICKEL	231.604	Axial	135.8138	0.1804072	0.1805066	0.1789833	0.1817318
PHOSPHORUS	177.495	Axial	1972.503	9.530508	9.302010	9.611472	9.678042
POTASSIUM	766.490	Radial	5726.173	54.40669	54.17278	54.53223	54.51505
SILICON	251.611	Axial	18799.15	18.38949	18.45255	18.29919	18.41675
SODIUM	589.592	Radial	5485.424	14.13211	14.10407	14.13585	14.15639
STRONTIUM	421.552	Radial	14551.21	1.311277	1.305191	1.319647	1.308995
SULFUR	182.034	Axial	368.4227	6.243577	6.203042	6.244162	6.283525
THALLIUM	190.856	Axial	-0.6186282	-0.007859887	-0.01633037	-0.004217467	-0.003031820
TIN	189.989	Axial	5.089398	0.01781688	0.01452488	0.02046062	0.01846514
TITANIUM	334.941	Radial	9368.949	5.266525	5.281248	5.265803	5.252523
VANADIUM	292.402	Radial	276.3182	0.4302882	0.4313439	0.4264424	0.4330783
ZINC	206.200	Axial	2588.155	1.040866	1.028848	1.037942	1.055807

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835042-03 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:49 Sequence: 200

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4848.272	4726.828	4917.642	4900.347
YTTRIUM	360.073	Axial	50529.50	49615.12	51055.33	50918.04
YTTRIUM	360.073	Radial	4390.078	4366.493	4398.115	4405.627
INDIUM	230.606	Axial	1051.410	1032.506	1064.213	1057.512

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	6.706141	0.02623673	0.02572256	0.02355885	0.02942879
BARIUM	233.527	Axial	3035.245	0.5488998	0.5505075	0.5496342	0.5465577
CADMIUM	228.802	Axial	5.279697	0.001324204	0.001634299	0.0009059316	0.001432381
CHROMIUM	267.716	Axial	179.7609	0.07698129	0.07700953	0.07776296	0.07617139
LEAD	220.353	Axial	34.87533	0.08486151	0.08786498	0.07989653	0.08682301
SELENIUM	196.090	Axial	-0.1692331	-0.005271325	-0.01244019	-0.004835063	0.001461283
SILVER	328.068	Axial	-11.5065	0.002084559	0.001864664	0.002043106	0.002345908
ALUMINUM	308.215	Radial	3284.239	55.30122	55.01620	55.40730	55.48015
ANTIMONY	206.833	Axial	0.3249084	0.001013419	0.0002805953	0.003796225	-0.001036562
BERYLLIUM	313.042	Radial	58.67576	0.003199455	0.003201578	0.003290342	0.003106445
BORON	249.678	Radial	3.673611	0.01898778	0.02438068	0.01020469	0.02237797
CALCIUM	373.690	Radial	9360.676	90.95578	90.48195	91.10669	91.27869
CERIUM	535.353	Radial	38.55968	0.2680808	0.2684844	0.2659349	0.2698231
COBALT	228.616	Axial	51.03008	0.05106827	0.05103588	0.05162990	0.05053902
COPPER	324.754	Axial	670.2454	0.1513860	0.1531444	0.1510929	0.1499207
IRON	271.441	Radial	1649.286	75.87239	75.64009	76.13340	75.84368
LANTHANUM	333.749	Radial	44.84742	0.08289997	0.08234420	0.08107653	0.08527917
LITHIUM	670.784	Radial	72.30551	0.09009369	0.09672792	0.08976046	0.08379269
MAGNESIUM	279.079	Radial	2445.130	26.68781	26.64297	26.78684	26.63362
MANGANESE	257.610	Axial	40621.19	2.012377	2.022802	2.008192	2.006137
MOLYBDENUM	202.030	Axial	1.911650	0.004300628	0.003754223	0.003512975	0.005634687
NICKEL	231.604	Axial	79.92929	0.1019508	0.1013475	0.1012100	0.1032949
PHOSPHORUS	177.495	Axial	744.4803	3.791245	3.845844	3.745329	3.782561
POTASSIUM	766.490	Radial	1392.549	13.81399	13.66230	13.87692	13.90276
SILICON	251.611	Axial	12770.40	12.82517	12.95500	12.79290	12.72759
SODIUM	589.592	Radial	1783.539	4.821963	4.804425	4.817405	4.844058
STRONTIUM	421.552	Radial	4937.902	0.4561161	0.4573678	0.4547686	0.4562119
SULFUR	182.034	Axial	127.5462	2.228569	2.249626	2.226518	2.209563
THALLIUM	190.856	Axial	-0.6774778	-0.008042396	-0.01271177	-0.009697370	-0.001718051
TIN	189.989	Axial	4.078045	0.01412177	0.01527071	0.01357199	0.01352261
TITANIUM	334.941	Radial	5663.513	3.265562	3.287569	3.249492	3.259626
VANADIUM	292.402	Radial	114.7598	0.1857144	0.1891442	0.1857439	0.1822551
ZINC	206.200	Axial	1324.308	0.5350703	0.5476876	0.5324545	0.5250687

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/17/25 11:51 Sequence: 201 Standard ID: 25C17425

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4519.279	4446.810	4563.926	4547.101
YTTRIUM	360.073	Axial	47164.09	46383.20	47353.59	47755.49
YTTRIUM	360.073	Radial	4186.159	4189.673	4181.054	4187.750
INDIUM	230.606	Axial	1046.121	1027.452	1052.854	1058.057

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	559.3030	9.954049	9.936907	9.979148	9.946091
ANTIMONY	206.833	Axial	72.70864	0.5440553	0.5388109	0.5488737	0.5444813
ARSENIC	189.042	Axial	200.2004	1.076992	1.093745	1.054052	1.083178
BARIUM	233.527	Axial	2595.777	0.5036869	0.5017047	0.5034870	0.5058691
BERYLLIUM	313.042	Radial	3326.842	0.2059357	0.2059922	0.2066619	0.2051531
BORON	249.678	Radial	215.0446	1.024206	1.028318	1.029742	1.014558
CADMIUM	228.802	Axial	884.5991	0.5317758	0.5329305	0.5314964	0.5309004
CALCIUM	373.690	Radial	5101.261	51.99197	52.10152	52.15381	51.72059
CHROMIUM	267.716	Axial	2068.792	0.9945938	0.9977714	0.9863086	0.9997015
COBALT	228.616	Axial	884.4252	0.9875392	0.9960615	0.9780492	0.9885069
COPPER	324.754	Axial	4471.590	1.078597	1.084348	1.076165	1.075279
IRON	259.940	Radial	2575.879	10.22225	10.16707	10.27645	10.22322
LEAD	220.353	Axial	212.4936	0.5229420	0.5257011	0.5207327	0.5223923
LITHIUM	670.784	Radial	859.4503	0.9710350	0.9810767	0.9748687	0.9571597
MAGNESIUM	279.079	Radial	885.9557	10.16019	10.16550	10.16936	10.14572
MANGANESE	257.610	Axial	18784.74	0.9987223	1.001513	0.9891003	1.005554
MOLYBDENUM	202.030	Axial	105.8187	0.2621167	0.2635258	0.2607942	0.2620300
NICKEL	231.604	Axial	806.9461	1.009020	1.017640	1.005376	1.004045
PHOSPHORUS	177.495	Axial	199.1616	1.081222	1.095820	1.082864	1.064981
POTASSIUM	766.490	Radial	5018.889	51.30496	51.12230	51.47828	51.31430
SELENIUM	196.090	Axial	138.5059	1.090999	1.103084	1.095600	1.074313
SILICON	251.611	Axial	2055.162	2.207276	2.204932	2.234427	2.182468
SILVER	328.068	Axial	2227.831	0.5291610	0.5312551	0.5287554	0.5274723
SODIUM	818.326	Radial	242.0765	48.70339	47.36979	49.23849	49.50189
STRONTIUM	421.552	Radial	10525.79	1.020054	1.025559	1.021124	1.013480
SULFUR	182.034	Axial	288.7950	5.532937	5.639887	5.431326	5.527597
THALLIUM	190.856	Axial	163.9498	1.053105	1.060704	1.047495	1.051117
TIN	189.989	Axial	177.2285	0.5164137	0.5176565	0.5170111	0.5145735
TITANIUM	334.941	Radial	1681.212	1.017700	1.024161	1.013740	1.015200
VANADIUM	292.402	Radial	616.9674	1.027323	1.029915	1.030595	1.021457
ZINC	206.200	Axial	2298.055	1.046689	1.047537	1.061553	1.030977
CERIUM	535.353	Radial	19.64189	0.07392515	0.02847336	0.1161909	0.07711118
LANTHANUM	333.749	Radial	-8.71561	-0.01530453	-0.01206694	-0.01843113	-0.01541552

Sample ID: CCB Units: mg/l
Analyzed: 03/17/25 11:53 Sequence: 202

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4362.391	4320.257	4368.240	4398.676
YTTRIUM	360.073	Axial	46574.85	46112.33	46674.88	46937.34
YTTRIUM	360.073	Radial	4332.119	4304.011	4324.077	4368.268
INDIUM	230.606	Axial	1041.128	1029.189	1039.473	1054.722

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.56838	-0.0007665902	-0.0005213236	-0.03407882	0.03230038
ANTIMONY	206.833	Axial	0.4453516	0.002244508	0.007809128	0.0008772604	-0.001952864
ARSENIC	189.042	Axial	0.9393556	-0.002358912	-0.002332603	-0.006146866	0.001402734
BARIUM	233.527	Axial	-6.90994	0.00006437754	0.0005837017	-0.0003547892	-0.00003577991
BERYLLIUM	313.042	Radial	5.072287	0.00003502195	0.00000004725814	0.000006228234	0.00009879036
BORON	249.678	Radial	0.7974722	0.006013927	0.008675568	0.008358550	0.001007662
CADMIUM	228.802	Axial	3.927615	0.0008078316	0.001378843	0.0001622706	0.0008823813
CALCIUM	317.933	Radial	19.83879	0.006750486	-0.0009973598	0.008246642	0.01300218
CERIUM	535.353	Radial	19.21882	0.06157151	0.05115308	0.02215923	0.1114022
CHROMIUM	267.716	Axial	10.28949	0.001258055	0.001637913	0.0008552099	0.001281043
COBALT	228.616	Axial	5.389003	0.0001058165	-0.0004675016	-0.001966160	0.002751111
COPPER	324.754	Axial	-3.30433	-0.0002490814	0.001000867	-0.001033332	-0.0007147794
IRON	259.940	Radial	2.269983	-0.005767385	-0.008080260	-0.003074380	-0.006147515
LANTHANUM	333.749	Radial	0.1195641	0.001543508	0.0008469542	0.002326811	0.001456758
LEAD	220.353	Axial	0.3127603	0.0001105338	0.001800115	-0.0004483192	-0.001020195
LITHIUM	670.784	Radial	-9.49205	0.003018161	0.002858873	0.003925646	0.002269962
MAGNESIUM	279.079	Radial	-2.80764	-0.00008993574	-0.0006695446	-0.005174381	0.005574119
MANGANESE	257.610	Axial	-7.07799	0.0004275760	0.0007048986	0.0002809206	0.0002969087
MOLYBDENUM	202.030	Axial	0.06020546	0.00003488031	-0.002859911	0.003046750	-0.00008219765
NICKEL	231.604	Axial	-3.23918	-0.001266589	-0.001269227	-0.001944666	-0.0005858728
PHOSPHORUS	177.495	Axial	1.661422	-0.00002667478	0.0001701603	-0.00005120644	-0.0001989782
POTASSIUM	766.490	Radial	-7.95989	0.2485836	0.1927250	0.2339196	0.3191060
SELENIUM	196.090	Axial	0.2412638	-0.001983138	-0.005175530	-0.002589855	0.001815972
SILICON	251.611	Axial	12.44477	0.008927360	0.008075798	0.008945193	0.009761089
SILVER	328.068	Axial	-23.0152	-0.0008734510	-0.001354512	-0.00001298945	-0.001252851
SODIUM	589.592	Radial	-2.01571	0.1593798	0.1491718	0.1771297	0.1518378
STRONTIUM	421.552	Radial	3.185084	-0.00004685253	0.0001115564	-0.00006159047	-0.0001905235
SULFUR	182.034	Axial	3.791758	-0.007099185	-0.009707149	-0.003782583	-0.007807823
THALLIUM	190.856	Axial	-0.2896278	-0.005544407	-0.005829847	-0.005968189	-0.004835185
TIN	189.989	Axial	-1.39250	-0.001718699	-0.003345699	0.0004338371	-0.002244235
TITANIUM	334.941	Radial	-1.24437	0.0008934639	0.0003477887	0.0005451207	0.001787482
VANADIUM	292.402	Radial	-0.8462718	0.002892865	0.002467632	0.004667463	0.001543500
ZINC	206.200	Axial	126.8296	0.004157609	0.004870921	0.003905692	0.003696213

Sample ID: L1835560-01 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:54 Sequence: 203

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4963.656	4927.787	4948.578	5014.604
YTTRIUM	360.073	Axial	50455.88	49949.43	50399.07	51019.15
YTTRIUM	360.073	Radial	4374.175	4387.106	4366.739	4368.682
INDIUM	230.606	Axial	1011.219	1006.987	1009.095	1017.575

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.179756	0.01793970	0.02343463	0.01413630	0.01624819
BARIUM	233.527	Axial	2975.011	0.5255197	0.5213782	0.5253563	0.5298247
BORON	249.678	Radial	3.970541	0.02038385	0.02234594	0.01354599	0.02525962
CADMIUM	228.802	Axial	7.406479	0.002413284	0.001834953	0.001960982	0.003443918
CHROMIUM	267.716	Axial	195.7218	0.08211037	0.08050787	0.08306322	0.08276001
COBALT	228.616	Axial	49.43896	0.05148786	0.05079572	0.05246459	0.05120326
LEAD	220.353	Axial	84.94471	0.2158539	0.2180515	0.2120443	0.2174660
LITHIUM	670.784	Radial	32.60853	0.04801616	0.04790401	0.05083808	0.04530639
SELENIUM	196.090	Axial	0.3325360	-0.001550694	-0.002609098	-0.001435927	-0.0006070567
SILVER	328.068	Axial	-22.1425	-0.0002470429	0.001697964	-0.0009056773	-0.001533416
ALUMINUM	308.215	Radial	4153.679	70.17076	70.36812	69.90173	70.24242
ANTIMONY	206.833	Axial	1.100062	0.006283818	0.008927491	0.006792143	0.003131820
BERYLLIUM	313.042	Radial	60.38775	0.003313468	0.003373537	0.003291556	0.003275311
CALCIUM	373.690	Radial	99564.11	970.7762	973.5873	969.8256	968.9157
CERIUM	535.353	Radial	35.74554	0.2390225	0.2641601	0.2183737	0.2345337
COPPER	324.754	Axial	211.7812	0.04827615	0.04872337	0.04746246	0.04864261
IRON	271.441	Radial	1763.969	81.44696	81.49155	81.26884	81.58048
LANTHANUM	333.749	Radial	52.21269	0.09664507	0.09709781	0.09745532	0.09538208
MAGNESIUM	279.079	Radial	4716.175	51.63360	51.81167	51.42344	51.66569
MANGANESE	257.610	Axial	62332.89	3.015511	2.999666	3.017800	3.029066
MOLYBDENUM	202.030	Axial	0.6018566	0.001244087	0.002517206	-0.001431008	0.002646064
NICKEL	231.604	Axial	58.99458	0.07888078	0.07538654	0.07935822	0.08189758
PHOSPHORUS	177.495	Axial	493.4443	2.450669	2.452265	2.453508	2.446235
POTASSIUM	766.490	Radial	756.4611	7.680223	7.725797	7.656290	7.658581
SILICON	251.611	Axial	22747.35	22.87950	22.86877	22.82107	22.94866
SODIUM	589.592	Radial	599.8440	1.736762	1.733880	1.744297	1.732110
STRONTIUM	421.552	Radial	6333.638	0.5872702	0.5823537	0.5872840	0.5921730
SULFUR	182.034	Axial	321.2352	5.604005	5.643341	5.644205	5.524468
THALLIUM	190.856	Axial	-0.5496153	-0.007329905	-0.007916527	-0.006915601	-0.007157587
TIN	189.989	Axial	2.722941	0.01051480	0.009719436	0.01212771	0.009697256
TITANIUM	334.941	Radial	792.5604	0.4600464	0.4537472	0.4635205	0.4628716
VANADIUM	292.402	Radial	94.00541	0.1534276	0.1531552	0.1513545	0.1557732
ZINC	206.200	Axial	1129.716	0.4358394	0.4348797	0.4328372	0.4398014

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-02 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:56 Sequence: 204

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4976.457	4918.654	4994.139	5016.579
YTTRIUM	360.073	Axial	51088.84	50564.73	50944.95	51756.85
YTTRIUM	360.073	Radial	4357.111	4357.140	4353.966	4360.226
INDIUM	230.606	Axial	1033.111	1023.493	1032.633	1043.206

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	6.370255	0.02371073	0.02304575	0.02366394	0.02442251
BARIUM	233.527	Axial	4167.945	0.7338013	0.7327711	0.7318458	0.7367872
BORON	249.678	Radial	3.997380	0.02057874	0.02131888	0.01578061	0.02463674
CADMIUM	228.802	Axial	4.584002	0.0008586442	0.0002923197	0.0006981722	0.001585441
CHROMIUM	267.716	Axial	285.7797	0.1213585	0.1204725	0.1206504	0.1229526
COBALT	228.616	Axial	55.36782	0.05701128	0.05803714	0.05440019	0.05859651
LEAD	220.353	Axial	47.26217	0.1172317	0.1114299	0.1233321	0.1169331
LITHIUM	670.784	Radial	62.89029	0.08057533	0.08247848	0.08112441	0.07812310
SELENIUM	196.090	Axial	-0.03835914	-0.004239551	-0.007471630	-0.007349377	0.002102355
SILVER	328.068	Axial	-10.2284	0.002391484	0.002498204	0.002156569	0.002519677
ALUMINUM	308.215	Radial	6106.569	103.5218	103.3545	103.5261	103.6849
ANTIMONY	206.833	Axial	1.545795	0.009330204	0.01812946	0.002413355	0.007447795
BERYLLIUM	313.042	Radial	88.26328	0.004987600	0.005046409	0.005015763	0.004900628
CALCIUM	373.690	Radial	44543.33	436.0228	435.3344	435.7774	436.9565
CERIUM	535.353	Radial	42.26686	0.3116216	0.2929625	0.3269990	0.3149033
COPPER	324.754	Axial	317.7106	0.07126581	0.07204483	0.07115391	0.07059867
IRON	271.441	Radial	2788.196	129.2688	129.0271	129.1652	129.6143
LANTHANUM	333.749	Radial	65.96023	0.1222154	0.1179903	0.1244714	0.1241845
MAGNESIUM	279.079	Radial	2473.147	27.19732	27.17962	27.15790	27.25443
MANGANESE	257.610	Axial	52453.44	2.531189	2.525124	2.523674	2.544769
MOLYBDENUM	202.030	Axial	2.104273	0.004630918	0.006127061	0.001418403	0.006347289
NICKEL	231.604	Axial	85.76323	0.1110702	0.1101250	0.1110797	0.1120060
PHOSPHORUS	177.495	Axial	731.8526	3.629727	3.606545	3.640509	3.642127
POTASSIUM	766.490	Radial	1417.986	14.16466	14.10071	14.14464	14.24865
SILICON	251.611	Axial	14461.14	14.36251	14.22850	14.38542	14.47361
SODIUM	589.592	Radial	606.4846	1.760385	1.740755	1.769218	1.771183
STRONTIUM	421.552	Radial	10547.94	0.9820816	0.9773788	0.9837358	0.9851301
SULFUR	182.034	Axial	166.1104	2.849677	2.838044	2.857048	2.853938
THALLIUM	190.856	Axial	-0.5094256	-0.007003278	-0.009898504	-0.005772095	-0.005339236
TIN	189.989	Axial	4.016516	0.01414569	0.01563730	0.01325257	0.01354719
TITANIUM	334.941	Radial	1196.747	0.6965272	0.6946404	0.6966623	0.6982788
VANADIUM	292.402	Radial	134.6438	0.2187553	0.2159092	0.2190377	0.2213190
ZINC	206.200	Axial	877.5802	0.3244152	0.3263691	0.3199128	0.3269637

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-03 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:58 Sequence: 205

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5005.220	4910.735	5041.426	5063.499
YTTRIUM	360.073	Axial	51413.40	50671.83	52140.21	51428.14
YTTRIUM	360.073	Radial	4450.026	4447.422	4480.338	4422.320
INDIUM	230.606	Axial	1050.084	1028.019	1067.794	1054.440

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	8.842340	0.03570165	0.04423819	0.02809844	0.03476831
BARIUM	233.527	Axial	5499.852	0.9622241	0.9545263	0.9696128	0.9625332
BORON	249.678	Radial	3.702837	0.01888701	0.01449984	0.01989975	0.02226144
CADMIUM	228.802	Axial	8.390464	0.002917742	0.002676573	0.002619817	0.003456836
CHROMIUM	267.716	Axial	292.5306	0.1235842	0.1233856	0.1227895	0.1245777
COBALT	228.616	Axial	60.33938	0.06157275	0.06232396	0.05980403	0.06259028
LEAD	220.353	Axial	131.6634	0.3225043	0.3219242	0.3262354	0.3193533
LITHIUM	670.784	Radial	51.38047	0.06710751	0.06739377	0.06579138	0.06813740
SELENIUM	196.090	Axial	0.9692125	0.002959621	0.0009002446	0.003864105	0.004114514
SILVER	328.068	Axial	0.4602735	0.004716690	0.005106592	0.004658959	0.004384517
ALUMINUM	308.215	Radial	6652.941	110.4213	110.2284	110.9091	110.1264
ANTIMONY	206.833	Axial	0.6207074	0.002926206	0.0004255408	-0.001029588	0.009382666
BERYLLIUM	313.042	Radial	110.9710	0.006202165	0.006216768	0.006120271	0.006269454
CALCIUM	373.690	Radial	18526.05	177.5734	177.3799	177.3803	177.9600
CERIUM	535.353	Radial	45.27465	0.3340203	0.3444110	0.3445628	0.3130871
COPPER	324.754	Axial	715.3424	0.1587526	0.1592575	0.1589495	0.1580507
IRON	271.441	Radial	3622.081	164.4350	163.8424	164.9576	164.5051
LANTHANUM	333.749	Radial	66.80766	0.1212075	0.1238324	0.1210743	0.1187157
MAGNESIUM	279.079	Radial	1688.382	18.18976	18.21061	18.19242	18.16626
MANGANESE	257.610	Axial	61614.35	2.956022	2.945384	2.980602	2.942079
MOLYBDENUM	202.030	Axial	2.911058	0.006413157	0.007228543	0.007131671	0.004879257
NICKEL	231.604	Axial	90.61008	0.1153569	0.1163399	0.1148310	0.1148998
PHOSPHORUS	177.495	Axial	880.4901	4.344603	4.425443	4.305598	4.302769
POTASSIUM	766.490	Radial	1214.721	11.93352	11.87798	11.97198	11.95061
SILICON	251.611	Axial	23901.05	23.59158	23.64390	23.88282	23.24802
SODIUM	589.592	Radial	726.5750	2.036364	2.021619	2.058572	2.028902
STRONTIUM	421.552	Radial	4940.851	0.4502350	0.4481363	0.4506560	0.4519126
SULFUR	182.034	Axial	221.9740	3.813762	3.832740	3.744902	3.863643
THALLIUM	190.856	Axial	-0.05018751	-0.003928100	0.001695284	-0.006595229	-0.006884353
TIN	189.989	Axial	4.490788	0.01532853	0.01676764	0.01593127	0.01328668
TITANIUM	334.941	Radial	1567.178	0.8926452	0.8860043	0.8901225	0.9018089
VANADIUM	292.402	Radial	163.5319	0.2593341	0.2587390	0.2608775	0.2583858
ZINC	206.200	Axial	2125.502	0.8645335	0.8765766	0.8869770	0.8300471

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-04 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 11:59 Sequence: 206

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5016.508	4962.980	5048.465	5038.078
YTTRIUM	360.073	Axial	51797.29	50696.65	52329.25	52365.96
YTTRIUM	360.073	Radial	4443.886	4457.777	4451.890	4421.992
INDIUM	230.606	Axial	1029.761	1011.402	1040.465	1037.415

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	11.20442	0.04702652	0.04105002	0.04585821	0.05417133
BARIUM	233.527	Axial	7961.316	1.389110	1.373676	1.391404	1.402250
BORON	249.678	Radial	-1.22564	-0.003173179	-0.001666225	0.002941154	-0.01079447
CADMIUM	228.802	Axial	7.528775	0.002442352	0.002290072	0.001203262	0.003833722
CHROMIUM	267.716	Axial	414.7273	0.1764249	0.1755103	0.1773181	0.1764462
COBALT	228.616	Axial	92.48532	0.09957322	0.09961359	0.09994875	0.09915733
LEAD	220.353	Axial	82.43695	0.2056630	0.2034289	0.2044673	0.2090927
LITHIUM	670.784	Radial	71.51137	0.08829946	0.09294952	0.08748448	0.08446439
SELENIUM	196.090	Axial	0.5773522	0.0001952325	0.003731099	-0.006238153	0.003092751
SILVER	328.068	Axial	14.51959	0.007733187	0.008246700	0.006977238	0.007975623
ALUMINUM	308.215	Radial	9465.086	157.2758	156.7132	157.6116	157.5026
ANTIMONY	206.833	Axial	1.118893	0.006323218	0.007234726	-0.00008881422	0.01182374
BERYLLIUM	313.042	Radial	168.9800	0.009597943	0.009503760	0.009628490	0.009661580
CALCIUM	373.690	Radial	10267.89	98.56157	98.65650	98.95301	98.07520
CERIUM	535.353	Radial	57.26179	0.4627825	0.4977241	0.4210521	0.4695712
COPPER	324.754	Axial	522.4295	0.1152309	0.1151841	0.1139978	0.1165108
IRON	271.441	Radial	5005.138	227.5559	227.9324	227.0884	227.6468
LANTHANUM	333.749	Radial	80.46119	0.1459082	0.1498356	0.1433256	0.1445633
MAGNESIUM	279.079	Radial	1729.221	18.65483	18.63783	18.63848	18.68817
MANGANESE	257.610	Axial	70293.66	3.364683	3.340201	3.361978	3.391870
MOLYBDENUM	202.030	Axial	3.804044	0.008373949	0.006402150	0.006652385	0.01206731
NICKEL	231.604	Axial	149.1619	0.1917305	0.1911426	0.1896491	0.1943999
PHOSPHORUS	177.495	Axial	1030.196	5.072740	5.114721	5.098916	5.004581
POTASSIUM	766.490	Radial	1626.066	15.88543	15.88549	15.87923	15.89158
SILICON	251.611	Axial	24841.00	24.34019	24.46237	24.26858	24.28961
SODIUM	589.592	Radial	425.0116	1.261073	1.267652	1.260260	1.255306
STRONTIUM	421.552	Radial	3979.757	0.3630746	0.3626183	0.3694542	0.3571514
SULFUR	182.034	Axial	230.9318	3.961942	3.992659	4.001673	3.891495
THALLIUM	190.856	Axial	-1.50758	-0.01349816	-0.009131783	-0.01406270	-0.01730001
TIN	189.989	Axial	4.339852	0.01513963	0.01598975	0.01301472	0.01641441
TITANIUM	334.941	Radial	1562.846	0.8914019	0.8915666	0.8843702	0.8982688
VANADIUM	292.402	Radial	223.0150	0.3526079	0.3510675	0.3547269	0.3520291
ZINC	206.200	Axial	4115.767	1.724960	1.707728	1.724543	1.742609

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-05 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:01 Sequence: 207

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4994.827	4952.445	5088.002	4944.036
YTTRIUM	360.073	Axial	51112.97	50470.23	51629.52	51239.18
YTTRIUM	360.073	Radial	4417.151	4433.960	4422.834	4394.658
INDIUM	230.606	Axial	1041.104	1034.236	1047.798	1041.280

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	6.178138	0.02263441	0.02586808	0.02493429	0.01710086
BARIUM	233.527	Axial	6971.837	1.221968	1.208466	1.224704	1.232735
BORON	249.678	Radial	4.450202	0.02237504	0.02311599	0.01993610	0.02407302
CADMIUM	228.802	Axial	7.745524	0.002572421	0.002023312	0.003212765	0.002481185
CHROMIUM	267.716	Axial	259.2906	0.1093512	0.1091644	0.1079420	0.1109473
COBALT	228.616	Axial	43.87570	0.04356124	0.04468894	0.04388074	0.04211404
LEAD	220.353	Axial	64.88840	0.1599959	0.1605449	0.1546408	0.1648019
LITHIUM	670.784	Radial	46.90135	0.06277055	0.06561379	0.05977314	0.06292471
SELENIUM	196.090	Axial	-0.7696829	-0.009402412	-0.009545566	-0.01363931	-0.005022362
SILVER	328.068	Axial	-8.50538	0.002764401	0.002164394	0.002713668	0.003415141
ALUMINUM	308.215	Radial	6582.763	110.0743	109.5150	109.6279	111.0801
ANTIMONY	206.833	Axial	1.043376	0.005850184	0.01236837	0.003844880	0.001337299
BERYLLIUM	313.042	Radial	88.40094	0.004924401	0.004786439	0.005029498	0.004957267
CALCIUM	373.690	Radial	31630.12	305.4208	304.2278	305.0790	306.9556
CERIUM	535.353	Radial	42.62925	0.3092631	0.2889394	0.3334627	0.3053871
COPPER	324.754	Axial	375.5226	0.08408630	0.08363612	0.08361162	0.08501115
IRON	271.441	Radial	2410.140	110.2170	109.8838	110.0560	110.7112
LANTHANUM	333.749	Radial	76.79630	0.1401553	0.1414783	0.1416733	0.1373142
MAGNESIUM	279.079	Radial	1933.589	20.98219	20.89075	20.94273	21.11310
MANGANESE	257.610	Axial	53600.93	2.577191	2.557331	2.567449	2.606794
MOLYBDENUM	202.030	Axial	1.167978	0.002519213	0.002901889	0.001466602	0.003189148
NICKEL	231.604	Axial	70.31317	0.09089105	0.09169397	0.09025080	0.09072838
PHOSPHORUS	177.495	Axial	925.4815	4.576658	4.652581	4.483291	4.594103
POTASSIUM	766.490	Radial	1358.147	13.40062	13.38686	13.40769	13.40731
SILICON	251.611	Axial	21211.86	21.06098	21.01456	20.87348	21.29490
SODIUM	589.592	Radial	450.8265	1.334716	1.328729	1.345797	1.329621
STRONTIUM	421.552	Radial	7451.072	0.6842146	0.6850732	0.6802560	0.6873148
SULFUR	182.034	Axial	281.1772	4.864095	4.966289	4.781150	4.844846
THALLIUM	190.856	Axial	-0.5816496	-0.007432135	-0.004811596	-0.004192494	-0.01329231
TIN	189.989	Axial	4.396974	0.01516810	0.01637503	0.01140385	0.01772542
TITANIUM	334.941	Radial	1942.326	1.114132	1.117637	1.106298	1.118462
VANADIUM	292.402	Radial	148.6762	0.2378837	0.2411047	0.2374465	0.2350999
ZINC	206.200	Axial	1414.489	0.5569114	0.5570806	0.5400668	0.5735867

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-07 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:03 Sequence: 208

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5213.992	5133.694	5223.124	5285.159
YTTRIUM	360.073	Axial	51614.27	51389.72	51966.87	51486.20
YTTRIUM	360.073	Radial	4520.159	4561.169	4520.935	4478.372
INDIUM	230.606	Axial	966.1763	959.1662	970.8413	968.5215

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	19.73992	0.08507917	0.08636008	0.08681301	0.08206442
BARIUM	233.527	Axial	117920.1	19.77852	19.81363	19.91472	19.60720
BORON	249.678	Radial	612.1019	2.696116	2.680764	2.708390	2.699192
CADMIUM	228.802	Axial	16.11300	0.006777067	0.006871996	0.007329431	0.006129772
CHROMIUM	267.716	Axial	736.3321	0.3041458	0.3046188	0.3060495	0.3017692
COBALT	228.616	Axial	133.4057	0.1562726	0.1528758	0.1589137	0.1570283
LEAD	220.353	Axial	75.61083	0.2010645	0.2045625	0.1962025	0.2024286
LITHIUM	670.784	Radial	201.9521	0.2216548	0.2263849	0.2169807	0.2215987
SELENIUM	196.090	Axial	2.901543	0.01594543	0.01595083	0.01688687	0.01499860
SILVER	328.068	Axial	-5.42068	0.003451529	0.004665777	0.002841180	0.002847630
ALUMINUM	308.215	Radial	22929.94	374.4601	372.9377	374.9642	375.4783
ANTIMONY	206.833	Axial	2.534707	0.01516118	0.009160283	0.01190403	0.02441921
BERYLLIUM	313.042	Radial	285.1005	0.01609638	0.01623139	0.01597272	0.01608502
CALCIUM	373.690	Radial	132100.4	1246.436	1244.232	1244.081	1250.996
CERIUM	535.353	Radial	65.32144	0.5370505	0.5367280	0.5509521	0.5234714
COPPER	324.754	Axial	3326.348	0.7333183	0.7313019	0.7325054	0.7361476
IRON	271.441	Radial	3595.934	160.7173	160.6706	160.1712	161.3100
LANTHANUM	333.749	Radial	64.87605	0.1159301	0.1181519	0.1145141	0.1151242
MAGNESIUM	279.079	Radial	9674.860	102.4733	102.3147	102.1808	102.9244
MANGANESE	257.610	Axial	17058.15	0.7862219	0.7833064	0.7902290	0.7851305
MOLYBDENUM	202.030	Axial	20.78692	0.04452313	0.04428700	0.04169379	0.04758860
NICKEL	231.604	Axial	202.0563	0.2755712	0.2739611	0.2757254	0.2770270
PHOSPHORUS	177.495	Axial	3890.036	18.45330	18.40908	18.52759	18.42324
POTASSIUM	766.490	Radial	1706.689	16.38175	16.31760	16.35661	16.47105
SILICON	251.611	Axial	9101.439	8.946272	8.906868	8.904987	9.026959
SODIUM	818.326	Radial	184.0070	35.00915	35.06649	34.63990	35.32106
STRONTIUM	421.552	Radial	129466.8	11.62350	11.54629	11.65751	11.66670
SULFUR	182.034	Axial	14979.56	252.3898	253.6718	252.1553	251.3424
THALLIUM	190.856	Axial	-2.10156	-0.01834373	-0.02301126	-0.02039504	-0.01162489
TIN	189.989	Axial	8.617312	0.02940211	0.02855835	0.03020720	0.02944078
TITANIUM	334.941	Radial	49113.74	27.49218	27.38964	27.42139	27.66551
VANADIUM	292.402	Radial	682.0712	1.051715	1.052170	1.047811	1.055163
ZINC	206.200	Axial	1765.322	0.6772601	0.6868903	0.6728937	0.6719962

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835560-08 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:04 Sequence: 209

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4866.371	4886.776	4868.380	4843.958
YTTRIUM	360.073	Axial	50592.37	50897.44	50360.38	50519.29
YTTRIUM	360.073	Radial	4428.628	4427.576	4410.660	4447.649
INDIUM	230.606	Axial	1035.977	1037.471	1029.013	1041.446

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	16.17481	0.07374267	0.07562730	0.07245607	0.07314464
BARIUM	233.527	Axial	5736.168	1.032195	1.023362	1.032531	1.040692
BORON	249.678	Radial	5.617394	0.02755124	0.03225429	0.02083303	0.02956639
CADMIUM	228.802	Axial	15.40117	0.006977922	0.006550805	0.007126098	0.007256862
CHROMIUM	267.716	Axial	281.1055	0.1221098	0.1204954	0.1213957	0.1244382
COBALT	228.616	Axial	96.43675	0.1034295	0.1033179	0.1053555	0.1016152
LEAD	220.353	Axial	85.86629	0.2129858	0.2169374	0.2143627	0.2076574
LITHIUM	670.784	Radial	33.95127	0.04900179	0.04892807	0.04881090	0.04926640
SELENIUM	196.090	Axial	0.7000758	0.001198309	0.003704243	-0.001646286	0.001536971
SILVER	328.068	Axial	18.31403	0.008638811	0.007104565	0.008799857	0.01001201
ALUMINUM	308.215	Radial	4287.636	71.54194	71.55051	71.64537	71.42993
ANTIMONY	206.833	Axial	0.5923862	0.002905940	-0.005116298	0.001542106	0.01229201
BERYLLIUM	313.042	Radial	137.8502	0.007808077	0.007813852	0.007865998	0.007744381
CALCIUM	317.933	Radial	3409.596	14.16422	14.22070	14.16751	14.10444
CERIUM	535.353	Radial	39.48179	0.2742988	0.2099563	0.2963570	0.3165830
COPPER	324.754	Axial	823.8430	0.1857029	0.1860090	0.1864758	0.1846239
IRON	271.441	Radial	4668.945	213.0011	212.9369	213.6106	212.4558
LANTHANUM	333.749	Radial	42.18898	0.07740090	0.07855802	0.07751378	0.07613091
MAGNESIUM	279.079	Radial	554.2747	6.021074	6.025286	6.016225	6.021711
MANGANESE	257.610	Axial	107396.5	5.299062	5.273802	5.288004	5.335382
MOLYBDENUM	202.030	Axial	11.76507	0.02696535	0.02825329	0.02427927	0.02836349
NICKEL	231.604	Axial	160.9214	0.2054058	0.2037549	0.2059388	0.2065238
PHOSPHORUS	177.495	Axial	1012.442	5.139154	5.090862	5.163303	5.163298
POTASSIUM	766.490	Radial	738.7044	7.419680	7.453767	7.503964	7.301310
SILICON	251.611	Axial	23078.18	23.15066	22.84873	23.05578	23.54746
SODIUM	589.592	Radial	243.2429	0.7943892	0.8011392	0.8050175	0.7770110
STRONTIUM	421.552	Radial	1824.268	0.1668227	0.1678774	0.1667814	0.1658092
SULFUR	182.034	Axial	655.1780	11.74772	11.65440	11.79425	11.79451
THALLIUM	190.856	Axial	0.4422305	-0.0007850279	0.002446347	-0.001550396	-0.003251035
TIN	189.989	Axial	4.800715	0.01640752	0.01681935	0.01728420	0.01511901
TITANIUM	334.941	Radial	1839.846	1.052697	1.054569	1.051501	1.052021
VANADIUM	292.402	Radial	141.6486	0.2262751	0.2293587	0.2259741	0.2234926
ZINC	206.200	Axial	3412.224	1.465757	1.463352	1.439424	1.494496

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835568-01 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:06 Sequence: 210

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5005.959	4997.380	4986.903	5033.593
YTTRIUM	360.073	Axial	50922.30	51000.98	50858.24	50907.69
YTTRIUM	360.073	Radial	4377.548	4394.220	4393.899	4344.525
INDIUM	230.606	Axial	1020.742	1020.698	1022.438	1019.091

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.761135	0.01566848	0.01483640	0.01855966	0.01360938
BARIUM	233.527	Axial	2434.675	0.4267348	0.4284180	0.4266120	0.4251745
BORON	249.678	Radial	6.124941	0.03014987	0.02742031	0.03655736	0.02647193
CADMIUM	228.802	Axial	7.058310	0.002192425	0.001938076	0.001637066	0.003002133
CHROMIUM	267.716	Axial	191.7320	0.07965364	0.08084869	0.07977943	0.07833278
COBALT	228.616	Axial	40.14085	0.04024869	0.03793470	0.04048330	0.04232806
LEAD	220.353	Axial	63.72759	0.1602577	0.1647467	0.1573288	0.1586977
LITHIUM	670.784	Radial	33.20445	0.04862889	0.04821834	0.04770576	0.04996257
SELENIUM	196.090	Axial	0.6613925	0.0007658041	0.003823642	-0.006668607	0.005142377
SILVER	328.068	Axial	-26.5996	-0.001185542	-0.001121705	-0.001517830	-0.0009170925
ALUMINUM	308.215	Radial	4177.274	70.51401	70.72037	70.53159	70.29006
ANTIMONY	206.833	Axial	0.09924867	-0.0005502431	0.002156003	0.005017637	-0.008824370
BERYLLIUM	313.042	Radial	57.09603	0.003116076	0.003100743	0.003028711	0.003218773
CALCIUM	373.690	Radial	111673.0	1087.988	1090.714	1089.531	1083.718
CERIUM	535.353	Radial	34.64313	0.2267037	0.2248458	0.2566143	0.1986511
COPPER	324.754	Axial	204.8673	0.04629526	0.04623738	0.04573657	0.04691182
IRON	271.441	Radial	1507.619	69.54954	69.51207	69.84815	69.28840
LANTHANUM	333.749	Radial	52.55158	0.09720463	0.09724715	0.09336712	0.1009996
MAGNESIUM	279.079	Radial	4142.207	45.31824	45.35014	45.42745	45.17714
MANGANESE	257.610	Axial	56507.05	2.710753	2.731850	2.702742	2.697667
MOLYBDENUM	202.030	Axial	0.9588031	0.002036124	0.001777404	0.002418836	0.001912131
NICKEL	231.604	Axial	54.56184	0.07251783	0.07490858	0.07082861	0.07181630
PHOSPHORUS	177.495	Axial	440.9184	2.170185	2.130800	2.195795	2.183960
POTASSIUM	766.490	Radial	807.9069	8.174385	8.164610	8.167951	8.190593
SILICON	251.611	Axial	23322.04	23.24305	23.35486	23.39359	22.98069
SODIUM	589.592	Radial	521.0723	1.529261	1.533456	1.525314	1.529014
STRONTIUM	421.552	Radial	6097.015	0.5648479	0.5705636	0.5662030	0.5577771
SULFUR	182.034	Axial	277.4177	4.786325	4.730763	4.817869	4.810343
THALLIUM	190.856	Axial	0.3990858	-0.001035050	-0.003102257	0.006284161	-0.006287055
TIN	189.989	Axial	3.248364	0.01200160	0.01336238	0.008725582	0.01391684
TITANIUM	334.941	Radial	823.1128	0.4773300	0.4813858	0.4763612	0.4742429
VANADIUM	292.402	Radial	84.55956	0.1383463	0.1392323	0.1341997	0.1416067
ZINC	206.200	Axial	1026.830	0.3870055	0.3900873	0.3918324	0.3790967

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835568-02 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:08 Sequence: 211

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4972.401	4932.161	4993.513	4991.530
YTTRIUM	360.073	Axial	51369.34	50794.71	51606.00	51707.29
YTTRIUM	360.073	Radial	4392.519	4366.853	4383.622	4427.083
INDIUM	230.606	Axial	1030.334	1022.823	1028.960	1039.219

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	7.370291	0.02868512	0.03409900	0.03308276	0.01887359
BARIUM	233.527	Axial	5402.626	0.9515211	0.9479119	0.9496479	0.9570036
BORON	249.678	Radial	3.454356	0.01799486	0.01852342	0.02341104	0.01205012
CADMIUM	228.802	Axial	6.076027	0.001683514	0.001967541	0.001458036	0.001624966
CHROMIUM	267.716	Axial	294.9612	0.1254964	0.1258343	0.1245558	0.1260992
COBALT	228.616	Axial	61.40805	0.06405230	0.05944723	0.06546020	0.06724946
LEAD	220.353	Axial	65.45888	0.1630985	0.1634916	0.1650087	0.1607953
LITHIUM	670.784	Radial	55.39566	0.07207530	0.07213038	0.07301278	0.07108275
SILVER	328.068	Axial	-10.7310	0.002288428	0.001059428	0.002786792	0.003019065
ALUMINUM	308.215	Radial	6895.143	115.9371	115.8328	116.2352	115.7434
ANTIMONY	206.833	Axial	1.192133	0.006896440	0.01051031	-0.004205630	0.01438464
BERYLLIUM	313.042	Radial	99.78747	0.005626759	0.005849945	0.005567064	0.005463268
CALCIUM	373.690	Radial	43968.05	426.9333	429.3453	426.7891	424.6656
CERIUM	535.353	Radial	52.78499	0.4215102	0.4248313	0.4015924	0.4381069
COPPER	324.754	Axial	353.6063	0.07881849	0.07862150	0.07910267	0.07873130
IRON	271.441	Radial	2953.252	135.8242	136.6242	135.9982	134.8502
LANTHANUM	333.749	Radial	81.59217	0.1496599	0.1506086	0.1483451	0.1500260
MAGNESIUM	279.079	Radial	2652.466	28.93311	29.10718	28.96664	28.72551
MANGANESE	257.610	Axial	83897.66	4.051362	4.029115	4.065202	4.059770
MOLYBDENUM	202.030	Axial	1.283429	0.002783825	0.003477099	0.003315830	0.001558546
NICKEL	231.604	Axial	76.49557	0.09963594	0.09930658	0.1003007	0.09930049
PHOSPHORUS	177.495	Axial	933.4125	4.636060	4.661071	4.594047	4.653062
POTASSIUM	766.490	Radial	1586.682	15.68628	15.69387	15.72225	15.64270
SELENIUM	196.090	Axial	0.5271186	-0.0001561149	-0.001341002	0.0007292035	0.0001434538
SILICON	251.611	Axial	23355.93	23.07481	23.20344	22.76963	23.25135
SODIUM	589.592	Radial	526.8298	1.539669	1.550989	1.533616	1.534403
STRONTIUM	421.552	Radial	10440.35	0.9642079	0.9635975	0.9605446	0.9684815
SULFUR	182.034	Axial	173.3107	2.979481	3.003910	2.968062	2.966471
THALLIUM	190.856	Axial	-0.9925296	-0.01017109	-0.01140218	-0.01170106	-0.007410023
TIN	189.989	Axial	3.116917	0.01152568	0.009597210	0.01579411	0.009185711
TITANIUM	334.941	Radial	1577.117	0.9100233	0.9142256	0.9077987	0.9080456
VANADIUM	292.402	Radial	166.9882	0.2681377	0.2662554	0.2695881	0.2685696
ZINC	206.200	Axial	863.6252	0.3186212	0.3189290	0.3119807	0.3249539

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835568-03 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:10 Sequence: 212

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4955.482	4892.866	4973.939	4999.643
YTTRIUM	360.073	Axial	51150.01	50518.24	51298.07	51633.74
YTTRIUM	360.073	Radial	4438.518	4433.641	4445.881	4436.031
INDIUM	230.606	Axial	1030.066	1014.546	1042.926	1032.727

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	7.554096	0.02965836	0.02509869	0.02680224	0.03707415
BARIUM	233.527	Axial	4963.794	0.8773115	0.8732300	0.8754709	0.8832336
BORON	249.678	Radial	4.696857	0.02338452	0.02724573	0.01958929	0.02331853
CADMIUM	228.802	Axial	7.669102	0.002565129	0.001829839	0.002923400	0.002942149
CHROMIUM	267.716	Axial	304.0990	0.1299533	0.1290480	0.1306799	0.1301321
COBALT	228.616	Axial	64.30709	0.06740581	0.06797070	0.06584628	0.06840045
LEAD	220.353	Axial	133.4903	0.3333626	0.3306876	0.3331641	0.3362362
LITHIUM	670.784	Radial	49.17477	0.06492427	0.06966002	0.06525356	0.05985923
SILVER	328.068	Axial	-0.8065239	0.004438076	0.003972038	0.005104179	0.004238011
ALUMINUM	308.215	Radial	6345.540	105.5986	105.9563	105.0895	105.7499
ANTIMONY	206.833	Axial	0.8710960	0.004737994	0.007746255	0.007064923	-0.0005971980
BERYLLIUM	313.042	Radial	111.0322	0.006222166	0.006306109	0.006275361	0.006085029
CALCIUM	373.690	Radial	30306.48	291.2283	292.5546	290.9403	290.1901
CERIUM	535.353	Radial	50.57832	0.3920045	0.3409594	0.4447491	0.3903050
COPPER	324.754	Axial	535.8289	0.1196593	0.1198374	0.1180857	0.1210548
IRON	271.441	Radial	3647.859	166.0365	166.1584	165.7960	166.1552
LANTHANUM	333.749	Radial	63.14915	0.1149430	0.1178532	0.1121015	0.1148743
MAGNESIUM	279.079	Radial	1983.398	21.41815	21.47615	21.32952	21.44878
MANGANESE	257.610	Axial	59620.49	2.889118	2.882974	2.889024	2.895357
MOLYBDENUM	202.030	Axial	1.947629	0.004305722	0.006177354	0.004474778	0.002265033
NICKEL	231.604	Axial	90.44457	0.1173221	0.1172340	0.1177905	0.1169416
PHOSPHORUS	177.495	Axial	752.5282	3.748744	3.783815	3.734647	3.727770
POTASSIUM	766.490	Radial	1114.405	11.00261	10.92829	11.08844	10.99111
SELENIUM	196.090	Axial	-0.05019007	-0.004295597	-0.002519247	-0.009052546	-0.001314997
SILICON	251.611	Axial	23587.41	23.40315	23.46656	23.29774	23.44516
SODIUM	589.592	Radial	832.2851	2.314319	2.306454	2.302305	2.334199
STRONTIUM	421.552	Radial	6487.141	0.5927831	0.6010824	0.5907053	0.5865615
SULFUR	182.034	Axial	201.5635	3.490997	3.512184	3.490867	3.469940
THALLIUM	190.856	Axial	-0.1939781	-0.004873937	0.002892279	-0.009242835	-0.008271255
TIN	189.989	Axial	5.724288	0.01917589	0.01569028	0.02171551	0.02012187
TITANIUM	334.941	Radial	1516.557	0.8660831	0.8746033	0.8601448	0.8635011
VANADIUM	292.402	Radial	151.2434	0.2407830	0.2397198	0.2396709	0.2429583
ZINC	206.200	Axial	1806.070	0.7335153	0.7390997	0.7347595	0.7266868

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/17/25 12:11 Sequence: 213 Standard ID: 25C17425

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4533.551	4508.912	4518.106	4573.635
YTTRIUM	360.073	Axial	47593.86	47487.59	47286.89	48007.10
YTTRIUM	360.073	Radial	4200.926	4186.741	4218.483	4197.553
INDIUM	230.606	Axial	1055.483	1055.321	1051.410	1059.718

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	565.0977	10.02114	9.993916	10.02694	10.04255
ANTIMONY	206.833	Axial	72.50059	0.5407807	0.5383211	0.5321357	0.5518854
ARSENIC	189.042	Axial	201.0375	1.077934	1.082433	1.069812	1.081556
BARIUM	233.527	Axial	2621.918	0.5071542	0.5051519	0.5075126	0.5087979
BERYLLIUM	313.042	Radial	3341.979	0.2061453	0.2059842	0.2061282	0.2063233
BORON	249.678	Radial	216.4011	1.027036	1.028140	1.026801	1.026168
CADMIUM	228.802	Axial	887.6022	0.5318901	0.5308518	0.5324155	0.5324030
CALCIUM	373.690	Radial	5131.269	52.11323	51.85364	52.35951	52.12655
CHROMIUM	267.716	Axial	2095.046	1.004034	0.9995231	1.005784	1.006794
COBALT	228.616	Axial	899.1921	0.9950837	0.9847046	0.9944049	1.006141
COPPER	324.754	Axial	4500.429	1.075685	1.070155	1.075968	1.080932
IRON	259.940	Radial	2587.189	10.23103	10.11627	10.16409	10.41272
LEAD	220.353	Axial	215.3238	0.5251793	0.5201425	0.5251113	0.5302841
LITHIUM	670.784	Radial	848.5844	0.9555890	0.9540890	0.9620774	0.9506005
MAGNESIUM	279.079	Radial	893.3350	10.20866	10.18416	10.19563	10.24618
MANGANESE	257.610	Axial	19046.00	1.009367	1.005462	1.010076	1.012565
MOLYBDENUM	202.030	Axial	107.0768	0.2643836	0.2639981	0.2640484	0.2651043
NICKEL	231.604	Axial	815.6133	1.010729	1.007549	1.012763	1.011876
PHOSPHORUS	177.495	Axial	202.0304	1.093312	1.085435	1.095154	1.099348
POTASSIUM	766.490	Radial	5021.862	51.15512	50.97715	51.42771	51.06051
SELENIUM	196.090	Axial	139.6564	1.096590	1.109959	1.094746	1.085067
SILICON	251.611	Axial	2100.345	2.235390	2.223488	2.234555	2.248127
SILVER	328.068	Axial	2251.650	0.5299590	0.5276660	0.5308666	0.5313445
SODIUM	818.326	Radial	251.0365	50.24782	49.36473	48.95622	52.42250
STRONTIUM	421.552	Radial	10469.44	1.011023	1.014599	1.013090	1.005381
SULFUR	182.034	Axial	292.0699	5.577864	5.604248	5.558357	5.570987
THALLIUM	190.856	Axial	166.0734	1.057248	1.060363	1.061099	1.050282
TIN	189.989	Axial	180.4647	0.5211467	0.5210945	0.5221119	0.5202336
TITANIUM	334.941	Radial	1704.907	1.028403	1.031047	1.029258	1.024904
VANADIUM	292.402	Radial	622.3855	1.032679	1.034573	1.032712	1.030753
ZINC	206.200	Axial	2321.348	1.054387	1.054598	1.052706	1.055857
CERIUM	535.353	Radial	17.28649	0.04652924	0.04624724	0.02922124	0.06411925
LANTHANUM	333.749	Radial	-7.93874	-0.01377364	-0.01527829	-0.01063245	-0.01541017

Sample ID: CCB Units: mg/l
Analyzed: 03/17/25 12:13 Sequence: 214

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4400.999	4371.847	4374.456	4456.694
YTTRIUM	360.073	Axial	47084.40	46873.24	46761.59	47618.36
YTTRIUM	360.073	Radial	4366.560	4373.708	4348.975	4376.998
INDIUM	230.606	Axial	1054.243	1046.576	1051.716	1064.437

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-3.72991	0.03116663	0.04841618	0.03003519	0.01504853
ANTIMONY	206.833	Axial	0.05675584	-0.0007620955	0.007382168	-0.001637307	-0.008031147
ARSENIC	189.042	Axial	1.292375	-0.0004306670	0.005036316	-0.005720534	-0.0006077823
BARIUM	233.527	Axial	-5.51312	0.0003489514	-0.0001735591	0.0004105946	0.0008098186
BERYLLIUM	313.042	Radial	1.301598	-0.0001910776	-0.0001833695	-0.0001525625	-0.0002373009
BORON	249.678	Radial	0.004613815	0.002350736	0.002357275	0.001770616	0.002924318
CADMIUM	228.802	Axial	3.448083	0.0004861679	0.0004433753	0.0003232820	0.0006918463
CALCIUM	317.933	Radial	21.25183	0.01209887	0.01470814	0.01044813	0.01114035
CERIUM	535.353	Radial	15.98710	0.02505607	-0.02229509	0.07170688	0.02575642
CHROMIUM	267.716	Axial	10.00860	0.001065887	0.0003743191	0.0007374510	0.002085891
COBALT	228.616	Axial	5.266804	-0.00009366228	0.0003319395	-0.001290455	0.0006775281
COPPER	324.754	Axial	-3.16278	-0.0002154815	0.00003024900	-0.0009907097	0.0003140161
IRON	259.940	Radial	1.944761	-0.007072420	-0.008156355	-0.006711838	-0.006349068
LANTHANUM	333.749	Radial	-1.53994	-0.001491835	0.001134791	-0.001535746	-0.004074549
LEAD	220.353	Axial	0.5602569	0.0007078920	0.0003948253	0.004362108	-0.002633258
LITHIUM	670.784	Radial	-10.1589	0.002377289	-0.0005390972	-0.0003994971	0.008070462
MAGNESIUM	279.079	Radial	-2.95053	-0.001371624	0.006803875	0.006833335	-0.01775208
MANGANESE	257.610	Axial	-4.30108	0.0005807804	0.0006206941	0.0004801154	0.0006415316
MOLYBDENUM	202.030	Axial	-0.2034220	-0.0006151965	0.002999344	-0.002457794	-0.002387140
NICKEL	231.604	Axial	-1.23167	0.001270468	0.001446451	0.0008854594	0.001479493
PHOSPHORUS	177.495	Axial	1.855953	0.0009857113	0.0002602464	0.002111308	0.0005855798
POTASSIUM	766.490	Radial	-17.9251	0.1526266	0.1659629	0.2156759	0.07624109
SELENIUM	196.090	Axial	-0.08480645	-0.004642003	-0.008305917	-0.003318079	-0.002302013
SILICON	251.611	Axial	10.94519	0.007163992	0.007224131	0.006296419	0.007971427
SILVER	328.068	Axial	-22.5356	-0.0007011001	-0.000005245293	-0.001529619	-0.0005684355
SODIUM	589.592	Radial	-5.88329	0.1492586	0.1440086	0.1500674	0.1536998
STRONTIUM	421.552	Radial	3.981740	0.00002428470	-0.0003213974	0.0001510225	0.0002432290
SULFUR	182.034	Axial	4.827200	0.01288143	0.01234296	0.008291248	0.01801007
THALLIUM	190.856	Axial	-0.06848299	-0.004083675	-0.005665039	0.002769100	-0.009355084
TIN	189.989	Axial	-0.3742959	0.001272888	0.002332412	0.001702102	-0.0002158502
TITANIUM	334.941	Radial	-1.46478	0.0007770169	0.001287260	0.001486921	-0.0004431305
VANADIUM	292.402	Radial	-0.1919613	0.003938400	0.006639413	0.002965623	0.002210165
ZINC	206.200	Axial	126.9840	0.003681970	0.004411999	0.003955831	0.002678080

Sample ID: L1835568-04 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:15 Sequence: 215

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4961.239	4903.354	5019.891	4960.472
YTTRIUM	360.073	Axial	51093.00	50411.25	51569.43	51298.32
YTTRIUM	360.073	Radial	4482.490	4462.187	4504.400	4480.882
INDIUM	230.606	Axial	1026.466	1012.437	1040.012	1026.949

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	11.17604	0.04753319	0.04524024	0.04317537	0.05418396
BARIUM	233.527	Axial	6710.674	1.184201	1.180485	1.185323	1.186794
BORON	249.678	Radial	1.627062	0.009531023	0.003007528	0.01604320	0.009542342
CADMIUM	228.802	Axial	8.338940	0.002931943	0.002860593	0.003085233	0.002850004
CHROMIUM	267.716	Axial	416.2278	0.1791031	0.1794065	0.1782468	0.1796560
COBALT	228.616	Axial	108.2119	0.1179217	0.1182396	0.1167363	0.1187891
LEAD	220.353	Axial	102.1243	0.2558057	0.2564236	0.2509699	0.2600236
LITHIUM	670.784	Radial	65.18062	0.08108091	0.08279137	0.07896213	0.08148923
SILVER	328.068	Axial	4.880791	0.005674350	0.005157574	0.004848571	0.007016906
ALUMINUM	308.215	Radial	8541.172	140.7090	140.0356	141.1095	140.9820
ANTIMONY	206.833	Axial	0.9281866	0.005112078	0.009645147	0.005319056	0.0003720305
BERYLLIUM	313.042	Radial	159.8887	0.008986157	0.008873662	0.009118220	0.008966590
CALCIUM	373.690	Radial	15329.06	145.8673	145.3235	146.1343	146.1441
CERIUM	535.353	Radial	54.67850	0.4301501	0.4648698	0.4646496	0.3609309
COPPER	324.754	Axial	459.1511	0.1027334	0.1029857	0.1019733	0.1032412
IRON	271.441	Radial	4662.979	210.1687	210.3088	211.3350	208.8623
LANTHANUM	333.749	Radial	77.55347	0.1394822	0.1361422	0.1399063	0.1423980
MAGNESIUM	279.079	Radial	1704.351	18.22880	18.31205	18.29647	18.07788
MANGANESE	257.610	Axial	81311.66	3.935444	3.926959	3.924264	3.955108
MOLYBDENUM	202.030	Axial	3.034119	0.006747416	0.006824163	0.004792684	0.008625399
NICKEL	231.604	Axial	133.6349	0.1726200	0.1748934	0.1726089	0.1703577
PHOSPHORUS	177.495	Axial	1115.222	5.553171	5.544077	5.569839	5.545596
POTASSIUM	766.490	Radial	1566.346	15.18477	15.12161	15.23134	15.20136
SELENIUM	196.090	Axial	0.006915186	-0.003922044	-0.01158719	-0.002893045	0.002714104
SILICON	251.611	Axial	21496.38	21.35162	21.36145	21.39628	21.29713
SODIUM	589.592	Radial	361.5462	1.089377	1.098562	1.073752	1.095818
STRONTIUM	421.552	Radial	4089.085	0.3698531	0.3679581	0.3698869	0.3717142
SULFUR	182.034	Axial	261.6897	4.551589	4.528855	4.551355	4.574558
THALLIUM	190.856	Axial	-0.1428783	-0.004607628	-0.006950039	-0.006081750	-0.0007910952
TIN	189.989	Axial	4.085328	0.01441837	0.01288427	0.01286801	0.01750284
TITANIUM	334.941	Radial	1442.389	0.8157213	0.8154058	0.8237049	0.8080533
VANADIUM	292.402	Radial	224.8972	0.3525133	0.3489869	0.3553797	0.3531732
ZINC	206.200	Axial	4288.286	1.820544	1.820161	1.818665	1.822806

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835568-05 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:16 Sequence: 216

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4910.861	4881.857	4894.705	4956.021
YTTRIUM	360.073	Axial	50015.22	49899.82	49779.94	50365.89
YTTRIUM	360.073	Radial	4316.430	4306.663	4291.908	4350.721
INDIUM	230.606	Axial	1004.441	998.5852	1000.936	1013.800

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	7.340042	0.02895804	0.02678329	0.02917645	0.03091438
BARIUM	233.527	Axial	6160.320	1.098335	1.095215	1.096938	1.102853
BORON	249.678	Radial	2.700513	0.01473356	0.01165781	0.007636435	0.02490644
CADMIUM	228.802	Axial	8.636678	0.003145255	0.003920501	0.002259501	0.003255762
CHROMIUM	267.716	Axial	227.9721	0.09736289	0.09755694	0.09691920	0.09761253
COBALT	228.616	Axial	43.80379	0.04529480	0.04572785	0.04758256	0.04257399
LEAD	220.353	Axial	76.20130	0.1948590	0.1887214	0.1972051	0.1986505
LITHIUM	670.784	Radial	43.93156	0.06070890	0.05957698	0.05939378	0.06315595
SILVER	328.068	Axial	-21.2819	-0.0001076207	0.001229668	-0.0005757407	-0.0009767895
ALUMINUM	308.215	Radial	5379.264	92.06118	92.53954	91.50553	92.13845
ANTIMONY	206.833	Axial	0.9812268	0.005518713	0.01057336	-0.002505992	0.008488774
BERYLLIUM	313.042	Radial	81.13196	0.004608632	0.004507502	0.004727563	0.004590831
CALCIUM	373.690	Radial	117743.6	1163.364	1165.240	1156.219	1168.633
CERIUM	535.353	Radial	35.56291	0.2421100	0.2207475	0.2291572	0.2764252
COPPER	324.754	Axial	350.6950	0.08027468	0.08088837	0.07927734	0.08065831
IRON	271.441	Radial	2570.905	120.3145	120.7091	119.9220	120.3125
LANTHANUM	333.749	Radial	61.08967	0.1143422	0.1111386	0.1163864	0.1155015
MAGNESIUM	279.079	Radial	1942.048	21.56441	21.71161	21.43203	21.54958
MANGANESE	257.610	Axial	75557.89	3.694569	3.696244	3.704859	3.682604
MOLYBDENUM	202.030	Axial	2.626711	0.005860417	0.004031023	0.003239075	0.01031115
NICKEL	231.604	Axial	81.46021	0.1085784	0.1078875	0.1092496	0.1085980
PHOSPHORUS	177.495	Axial	743.2265	3.736138	3.772791	3.775431	3.660191
POTASSIUM	766.490	Radial	1165.480	11.80771	11.82996	11.78127	11.81191
SELENIUM	196.090	Axial	0.4918010	-0.0003895899	-0.002506129	-0.004761601	0.006098961
SILICON	251.611	Axial	21352.71	21.66578	21.75734	21.52556	21.71443
SODIUM	589.592	Radial	449.2865	1.357891	1.363426	1.344471	1.365774
STRONTIUM	421.552	Radial	24376.63	2.291456	2.306658	2.276128	2.291583
SULFUR	182.034	Axial	254.6691	4.474137	4.550516	4.511373	4.360523
THALLIUM	190.856	Axial	0.7734164	0.001511182	-0.002911446	0.002934807	0.004510185
TIN	189.989	Axial	3.082775	0.01165060	0.01213226	0.009997443	0.01282211
TITANIUM	334.941	Radial	1565.894	0.9194372	0.9299007	0.9096139	0.9187970
VANADIUM	292.402	Radial	128.8298	0.2114345	0.2098846	0.2141584	0.2102605
ZINC	206.200	Axial	1657.176	0.6747357	0.6736483	0.6743866	0.6761720

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835568-06 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:18 Sequence: 217

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5023.419	4946.520	5032.772	5090.964
YTTRIUM	360.073	Axial	50848.20	50314.39	50974.98	51255.24
YTTRIUM	360.073	Radial	4409.018	4418.115	4443.206	4365.732
INDIUM	230.606	Axial	1003.508	988.0123	1011.534	1010.978

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	8.202508	0.03233176	0.02918455	0.03509779	0.03271292
BARIUM	233.527	Axial	6683.278	1.164770	1.157870	1.171528	1.164913
BORON	249.678	Radial	20.37017	0.09424597	0.09335878	0.09305347	0.09632567
CADMIUM	228.802	Axial	36.47802	0.01814266	0.01812184	0.01857862	0.01772752
CHROMIUM	267.716	Axial	242.7263	0.1015018	0.1016451	0.1013116	0.1015485
COBALT	228.616	Axial	52.05739	0.05501377	0.05745551	0.05430386	0.05328193
LEAD	220.353	Axial	136.9996	0.3512475	0.3530855	0.3484001	0.3522569
LITHIUM	670.784	Radial	45.76129	0.06164552	0.06442479	0.06184333	0.05866843
SILVER	328.068	Axial	-17.8819	0.0007121328	0.0008913117	0.001287072	-0.00004198492
ALUMINUM	308.215	Radial	4140.377	69.39683	69.47729	68.96972	69.74349
ANTIMONY	206.833	Axial	-0.1508429	-0.002300181	-0.004067437	-0.007293984	0.004460878
BERYLLIUM	313.042	Radial	85.10430	0.004739848	0.004787521	0.004697794	0.004734231
CALCIUM	373.690	Radial	154960.4	1498.998	1502.955	1489.768	1504.273
CERIUM	535.353	Radial	30.19652	0.1762505	0.1596777	0.1890984	0.1799754
COPPER	324.754	Axial	467.3564	0.1050591	0.1049427	0.1064245	0.1038100
IRON	271.441	Radial	2535.219	116.1561	116.2910	115.3339	116.8435
LANTHANUM	333.749	Radial	47.70393	0.08772094	0.08682164	0.08918755	0.08715363
MAGNESIUM	279.079	Radial	10834.90	117.6509	117.8505	116.7057	118.3965
MANGANESE	257.610	Axial	78332.46	3.744419	3.744177	3.762376	3.726705
MOLYBDENUM	202.030	Axial	7.438961	0.01645134	0.01434886	0.01576645	0.01923870
NICKEL	231.604	Axial	113.7774	0.1506836	0.1507378	0.1511087	0.1502043
PHOSPHORUS	177.495	Axial	804.5522	3.954112	3.960186	3.973864	3.928287
POTASSIUM	766.490	Radial	1210.721	12.00297	12.01947	11.99057	11.99887
SELENIUM	196.090	Axial	0.1556906	-0.002964319	-0.01767423	-0.0009441812	0.009725449
SILICON	251.611	Axial	24720.80	24.67375	24.71584	24.78833	24.51707
SODIUM	589.592	Radial	757.0664	2.133185	2.144064	2.114973	2.140519
STRONTIUM	421.552	Radial	20261.89	1.864580	1.870220	1.866748	1.856772
SULFUR	182.034	Axial	796.8758	13.85708	13.91135	13.90278	13.75713
THALLIUM	190.856	Axial	0.7678635	0.001470388	-0.001744862	0.001645380	0.004510647
TIN	189.989	Axial	3.387272	0.01256101	0.009488714	0.01333933	0.01485499
TITANIUM	334.941	Radial	2248.382	1.291862	1.295566	1.278765	1.301256
VANADIUM	292.402	Radial	105.4812	0.1703214	0.1649949	0.1730684	0.1729008
ZINC	206.200	Axial	6955.431	2.952030	2.949753	3.006287	2.900052

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835568-07 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:20 Sequence: 218

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5000.456	4977.976	5010.791	5012.600
YTTRIUM	360.073	Axial	50860.29	50244.48	50886.74	51449.65
YTTRIUM	360.073	Radial	4381.318	4361.023	4390.248	4392.684
INDIUM	230.606	Axial	1020.068	1012.529	1017.539	1030.135

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	8.378851	0.03340474	0.03632619	0.03242566	0.03146237
BARIUM	233.527	Axial	4984.620	0.8730998	0.8697942	0.8669889	0.8825163
BORON	249.678	Radial	2.736782	0.01475438	0.01344604	0.01970626	0.01111083
CADMIUM	228.802	Axial	4.531975	0.0008232207	0.001272662	0.0006908385	0.0005061616
CHROMIUM	267.716	Axial	356.1681	0.1514627	0.1498746	0.1504332	0.1540801
COBALT	228.616	Axial	74.80965	0.08020923	0.08012504	0.07898426	0.08151838
LEAD	220.353	Axial	58.16124	0.1463040	0.1454683	0.1491093	0.1443346
LITHIUM	670.784	Radial	84.71587	0.1034454	0.1049348	0.1010503	0.1043510
SILVER	328.068	Axial	-7.44418	0.002992361	0.002681090	0.004354902	0.001941091
ALUMINUM	308.215	Radial	7488.715	126.2311	126.4122	126.4033	125.8777
ANTIMONY	206.833	Axial	0.4188198	0.001592373	0.001445251	-0.0002392118	0.003571080
BERYLLIUM	313.042	Radial	109.8637	0.006237776	0.006260615	0.006195605	0.006257108
CALCIUM	373.690	Radial	66498.37	647.3271	646.6272	646.6335	648.7206
CERIUM	535.353	Radial	41.47099	0.3004719	0.3076601	0.3089649	0.2847906
COPPER	324.754	Axial	366.9957	0.08259744	0.08320043	0.08166740	0.08292450
IRON	271.441	Radial	3681.013	169.7330	169.4181	170.0143	169.7666
LANTHANUM	333.749	Radial	70.75765	0.1302935	0.1311746	0.1297540	0.1299518
MAGNESIUM	279.079	Radial	3098.335	33.87646	33.75647	34.12714	33.74576
MANGANESE	257.610	Axial	79084.46	3.797603	3.779531	3.785328	3.827951
MOLYBDENUM	202.030	Axial	1.205466	0.002585129	0.0003121378	0.003023991	0.004419259
NICKEL	231.604	Axial	107.9829	0.1408709	0.1398471	0.1417868	0.1409790
PHOSPHORUS	177.495	Axial	769.4392	3.798394	3.793329	3.779367	3.822488
POTASSIUM	766.490	Radial	1702.926	16.85336	16.78665	16.91285	16.86059
SELENIUM	196.090	Axial	-0.09003662	-0.004586406	-0.006884243	-0.0009268899	-0.005948086
SILICON	251.611	Axial	23756.57	23.70561	23.70642	23.84472	23.56567
SODIUM	589.592	Radial	582.5094	1.688838	1.688204	1.693937	1.684371
STRONTIUM	421.552	Radial	15417.63	1.427722	1.434151	1.422143	1.426872
SULFUR	182.034	Axial	172.3014	2.944445	2.936330	2.953702	2.943303
THALLIUM	190.856	Axial	-0.5159194	-0.007106595	-0.01157905	-0.008653312	-0.001087425
TIN	189.989	Axial	4.064546	0.01444527	0.01610041	0.01512351	0.01211190
TITANIUM	334.941	Radial	1433.760	0.8295490	0.8274242	0.8422144	0.8190084
VANADIUM	292.402	Radial	166.4306	0.2679332	0.2682493	0.2668718	0.2686784
ZINC	206.200	Axial	982.7786	0.3683112	0.3657756	0.3701399	0.3690182

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835568-08 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:21 Sequence: 219

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	5243.988	5209.771	5221.627	5300.565
YTTRIUM	360.073	Axial	51904.33	51510.29	52057.97	52144.72
YTTRIUM	360.073	Radial	4481.961	4471.545	4496.447	4477.891
INDIUM	230.606	Axial	989.0222	979.9843	988.0537	999.0287

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	17.67964	0.07487537	0.07185745	0.07108814	0.08168052
BARIUM	233.527	Axial	104180.9	17.37358	17.31429	17.45400	17.35244
BORON	249.678	Radial	514.1465	2.284272	2.288033	2.279094	2.285690
CADMIUM	228.802	Axial	13.53330	0.005387806	0.006163165	0.005015027	0.004985226
CHROMIUM	267.716	Axial	666.4430	0.2732986	0.2716542	0.2742940	0.2739476
COBALT	228.616	Axial	120.0696	0.1366952	0.1373774	0.1360268	0.1366812
LEAD	220.353	Axial	63.00787	0.1635425	0.1603164	0.1691341	0.1611770
LITHIUM	670.784	Radial	163.8596	0.1837926	0.1853801	0.1865271	0.1794708
SILVER	328.068	Axial	-13.6135	0.001703394	0.001763426	0.002687432	0.0006593232
ALUMINUM	308.215	Radial	19699.77	324.4565	324.9068	325.0660	323.3965
ANTIMONY	206.833	Axial	1.887945	0.01097645	0.006272083	0.02019377	0.006463490
BERYLLIUM	313.042	Radial	241.9480	0.01373799	0.01363281	0.01381558	0.01376556
CALCIUM	373.690	Radial	112633.2	1071.797	1075.609	1072.198	1067.583
CERIUM	535.353	Radial	56.51530	0.4496965	0.4756938	0.4480249	0.4253708
COPPER	324.754	Axial	2939.059	0.6443693	0.6407350	0.6473154	0.6450575
IRON	271.441	Radial	3219.501	145.1129	144.7337	145.1040	145.5010
LANTHANUM	333.749	Radial	58.86803	0.1061997	0.1027674	0.1133939	0.1024379
MAGNESIUM	279.079	Radial	8584.287	91.69861	91.75592	91.81394	91.52596
MANGANESE	257.610	Axial	16350.70	0.7493526	0.7465894	0.7521218	0.7493467
MOLYBDENUM	202.030	Axial	19.16334	0.04081953	0.04103515	0.04165626	0.03976716
NICKEL	231.604	Axial	180.2972	0.2405747	0.2402730	0.2400796	0.2413714
PHOSPHORUS	177.495	Axial	3365.496	15.87409	15.95042	16.10424	15.56760
POTASSIUM	766.490	Radial	1401.785	13.62548	13.63443	13.66772	13.57428
SELENIUM	196.090	Axial	1.529391	0.006444940	0.001787181	0.004736884	0.01281076
SILICON	251.611	Axial	11898.97	11.63220	11.67690	11.67096	11.54876
SODIUM	818.326	Radial	157.5672	30.56595	31.13531	31.49305	29.06949
STRONTIUM	421.552	Radial	110472.1	10.00253	10.09783	9.886838	10.02293
SULFUR	182.034	Axial	12706.07	212.8609	214.9680	215.2809	208.3339
THALLIUM	190.856	Axial	-0.9415034	-0.01005371	-0.008128737	-0.005498291	-0.01653411
TIN	189.989	Axial	8.800661	0.02936187	0.03250838	0.02904572	0.02653153
TITANIUM	334.941	Radial	42728.68	24.12137	24.06068	24.07669	24.22674
VANADIUM	292.402	Radial	588.1627	0.9151788	0.9135295	0.9208923	0.9111146
ZINC	206.200	Axial	1449.879	0.5421956	0.5417748	0.5487054	0.5361065

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835568-09 DF: 1x Batch: WG2469957 Units: mg/kg
Analyzed: 03/17/25 12:23 Sequence: 220

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4894.074	4797.746	4903.000	4981.475
YTTRIUM	360.073	Axial	51270.07	50653.25	51458.92	51698.05
YTTRIUM	360.073	Radial	4477.494	4469.346	4495.316	4467.821
INDIUM	230.606	Axial	1057.561	1046.618	1061.803	1064.263

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	13.99315	0.06234052	0.06015259	0.06143290	0.06543606
BARIUM	233.527	Axial	5637.251	1.008714	1.010452	1.014395	1.001295
BORON	249.678	Radial	2.579712	0.01380106	0.01557784	0.009224244	0.01660110
CADMIUM	228.802	Axial	15.32997	0.006898969	0.007830909	0.006683724	0.006182275
CHROMIUM	267.716	Axial	296.5452	0.1282738	0.1279083	0.1295458	0.1273673
COBALT	228.616	Axial	116.1139	0.1230431	0.1212972	0.1230293	0.1248027
LEAD	220.353	Axial	76.47797	0.1857259	0.1842849	0.1886774	0.1842156
LITHIUM	670.784	Radial	43.94979	0.05903552	0.06847798	0.05568292	0.05294567
SILVER	328.068	Axial	5.506330	0.005809147	0.006058252	0.005651079	0.005718110
ALUMINUM	308.215	Radial	4739.324	78.20675	78.53804	78.06034	78.02188
ANTIMONY	206.833	Axial	-0.05802335	-0.001743517	-0.009221440	-0.002108788	0.006099677
BERYLLIUM	313.042	Radial	124.6897	0.006957206	0.007034743	0.006913300	0.006923574
CALCIUM	317.933	Radial	3556.045	14.61386	14.70834	14.54888	14.58435
CERIUM	535.353	Radial	40.15101	0.2768101	0.2993242	0.2757433	0.2553628
COPPER	324.754	Axial	846.3900	0.1882620	0.1890163	0.1890102	0.1867594
IRON	271.441	Radial	4352.712	196.4034	198.1519	195.6539	195.4045
LANTHANUM	333.749	Radial	53.40497	0.09657011	0.09370278	0.09788480	0.09812274
MAGNESIUM	279.079	Radial	677.1311	7.268998	7.332706	7.239326	7.234963
MANGANESE	257.610	Axial	136671.9	6.705361	6.716012	6.740681	6.659390
MOLYBDENUM	202.030	Axial	6.586062	0.01496188	0.01511803	0.01479340	0.01497420
NICKEL	231.604	Axial	162.1297	0.2027546	0.2015810	0.2032374	0.2034454
PHOSPHORUS	177.495	Axial	1044.405	5.272849	5.376968	5.275346	5.166235
POTASSIUM	766.490	Radial	797.1287	7.896698	7.986413	7.943259	7.760423
SELENIUM	196.090	Axial	0.03648790	-0.003701005	-0.01027739	0.006264437	-0.007090063
SILICON	251.611	Axial	15946.17	15.78319	15.79882	15.90993	15.64083
SODIUM	589.592	Radial	267.0956	0.8485594	0.8437573	0.8430026	0.8589184
STRONTIUM	421.552	Radial	1796.314	0.1624673	0.1648179	0.1603094	0.1622747
SULFUR	182.034	Axial	309.5266	5.474946	5.537405	5.464320	5.423113
THALLIUM	190.856	Axial	-0.3533496	-0.005882789	0.0003148752	-0.006057572	-0.01190567
TIN	189.989	Axial	4.873587	0.01633081	0.01746085	0.01497620	0.01655538
TITANIUM	334.941	Radial	1534.297	0.8685854	0.8784616	0.8634408	0.8638539
VANADIUM	292.402	Radial	149.2049	0.2355668	0.2359995	0.2336973	0.2370035
ZINC	206.200	Axial	2830.954	1.199013	1.209072	1.215070	1.172896

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/17/25 12:28 Sequence: 223 Standard ID: 25C17425

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4515.722	4522.991	4530.192	4493.982
YTTRIUM	360.073	Axial	47629.17	47351.87	47749.57	47786.07
YTTRIUM	360.073	Radial	4248.381	4245.093	4254.615	4245.434
INDIUM	230.606	Axial	1055.119	1047.948	1064.676	1052.733

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	570.3692	10.00184	9.980831	10.01280	10.01190
ANTIMONY	206.833	Axial	72.31145	0.5415606	0.5379878	0.5397993	0.5468945
ARSENIC	189.042	Axial	202.0739	1.087871	1.070890	1.093727	1.098996
BARIUM	233.527	Axial	2622.401	0.5092537	0.5077949	0.5099784	0.5099877
BERYLLIUM	313.042	Radial	3381.820	0.2062728	0.2066316	0.2065490	0.2056379
BORON	249.678	Radial	218.5206	1.025510	1.021572	1.029876	1.025082
CADMIUM	228.802	Axial	887.3575	0.5338599	0.5317725	0.5324965	0.5373106
CALCIUM	373.690	Radial	5184.122	52.06251	52.33750	52.12450	51.72554
CHROMIUM	267.716	Axial	2095.675	1.008337	0.9977751	1.014462	1.012775
COBALT	228.616	Axial	894.8480	0.9906375	0.9890511	0.9820457	1.000816
COPPER	324.754	Axial	4522.182	1.080099	1.079748	1.080756	1.079793
IRON	259.940	Radial	2582.406	10.09774	10.13023	10.23690	9.926095
LEAD	220.353	Axial	211.3253	0.5156088	0.5156560	0.5131294	0.5180410
LITHIUM	670.784	Radial	888.6654	0.9890857	0.9992656	0.9926358	0.9753558
MAGNESIUM	279.079	Radial	899.0685	10.15953	10.13425	10.20082	10.14353
MANGANESE	257.610	Axial	19029.94	1.012526	1.003905	1.014107	1.019566
MOLYBDENUM	202.030	Axial	107.5452	0.2665980	0.2665962	0.2646321	0.2685657
NICKEL	231.604	Axial	814.5332	1.009752	1.008588	1.006485	1.014183
PHOSPHORUS	177.495	Axial	201.6948	1.095866	1.079934	1.105196	1.102469
POTASSIUM	766.490	Radial	5069.116	51.06094	51.06161	51.02810	51.09310
SELENIUM	196.090	Axial	139.5749	1.100269	1.078827	1.104497	1.117485
SILICON	251.611	Axial	2121.019	2.255773	2.242637	2.267945	2.256738
SILVER	328.068	Axial	2247.966	0.5287199	0.5306698	0.5267959	0.5286939
SODIUM	818.326	Radial	255.9850	50.64408	50.18618	50.83707	50.90899
STRONTIUM	421.552	Radial	10760.35	1.027523	1.034741	1.016776	1.031053
SULFUR	182.034	Axial	288.6109	5.532883	5.426035	5.609459	5.563157
THALLIUM	190.856	Axial	165.8455	1.056170	1.053967	1.048122	1.066422
TIN	189.989	Axial	182.5063	0.5271508	0.5197940	0.5358235	0.5258348
TITANIUM	334.941	Radial	1701.423	1.014859	1.017148	1.013095	1.014335
VANADIUM	292.402	Radial	623.2172	1.022551	1.025997	1.019528	1.022130
ZINC	206.200	Axial	2333.362	1.064604	1.052917	1.063054	1.077841
CERIUM	535.353	Radial	10.61142	-0.03027381	-0.04610193	-0.005405346	-0.03931414
LANTHANUM	333.749	Radial	-5.64833	-0.009294688	-0.01043409	-0.007392280	-0.01005769

Sample ID: CCB Units: mg/l
Analyzed: 03/17/25 12:30 Sequence: 224

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4419.985	4356.295	4435.623	4468.038
YTTRIUM	360.073	Axial	47494.11	46845.67	47521.11	48115.55
YTTRIUM	360.073	Radial	4371.781	4327.872	4405.231	4382.239
INDIUM	230.606	Axial	1069.905	1052.829	1074.424	1082.462

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.03922	0.02598908	0.01735869	0.02245482	0.03815374
ANTIMONY	206.833	Axial	0.7108279	0.004112553	-0.006499586	0.002808845	0.01602840
ARSENIC	189.042	Axial	1.993661	0.003434680	0.004359503	0.006092410	-0.0001478733
BARIUM	233.527	Axial	-4.25449	0.0006078370	0.0008068628	0.0008241861	0.0001924619
BERYLLIUM	313.042	Radial	3.696174	-0.00004837886	0.0001176716	-0.00008753853	-0.0001752697
BORON	249.678	Radial	0.6671577	0.005385583	0.01158577	0.009231619	-0.004660637
CADMIUM	228.802	Axial	1.921059	-0.0004672836	-0.001127016	0.0001351072	-0.0004099424
CALCIUM	317.933	Radial	22.25163	0.01622098	0.01808015	0.02277989	0.007802905
CERIUM	535.353	Radial	9.827415	-0.04223372	-0.07798846	-0.05819529	0.009482581
CHROMIUM	267.716	Axial	12.29611	0.002190257	0.003757764	0.001033161	0.001779845
COBALT	228.616	Axial	4.581347	-0.0009314250	-0.001004121	-0.001228643	-0.0005615116
COPPER	324.754	Axial	2.329169	0.001108390	0.0009788177	0.001168430	0.001177924
IRON	259.940	Radial	2.643557	-0.004404259	-0.001393299	-0.007759967	-0.004059510
LANTHANUM	333.749	Radial	-0.3863613	0.0006009195	-0.003877840	-0.0001642451	0.005844844
LEAD	220.353	Axial	-1.72267	-0.004832462	-0.005263011	-0.006108195	-0.003126181
LITHIUM	670.784	Radial	-8.24946	0.004434174	0.005034845	0.006084604	0.002183073
MAGNESIUM	279.079	Radial	-2.33065	0.005305413	-0.01826588	0.02269858	0.01148354
MANGANESE	257.610	Axial	-2.55668	0.0006775003	0.0007207667	0.0007717563	0.0005399781
MOLYBDENUM	202.030	Axial	-0.8590679	-0.002279917	-0.001363450	-0.002998888	-0.002477411
NICKEL	231.604	Axial	-1.64429	0.0007869004	0.0004245366	0.0007714548	0.001164710
PHOSPHORUS	177.495	Axial	0.8024971	-0.004978646	-0.006616093	-0.007140726	-0.001179119
POTASSIUM	766.490	Radial	-17.3345	0.1583980	0.1485722	0.1600704	0.1665514
SELENIUM	196.090	Axial	0.7103361	0.001846339	0.007435439	0.0003693054	-0.002265726
SILICON	251.611	Axial	15.93939	0.01242181	0.01431219	0.01246898	0.01048427
SILVER	328.068	Axial	-26.7788	-0.001656353	-0.003490250	-0.0002249402	-0.001253868
SODIUM	589.592	Radial	-13.3345	0.1297576	0.1362724	0.1340038	0.1189967
STRONTIUM	421.552	Radial	1.794580	-0.0001803063	-0.0003524860	-0.00005249124	-0.0001359415
SULFUR	182.034	Axial	4.370328	0.003407747	-0.001642940	0.01735772	-0.005491539
THALLIUM	190.856	Axial	0.3105153	-0.001709014	-0.0008918167	-0.005349262	0.001114037
TIN	189.989	Axial	0.8127076	0.004638495	0.003674317	0.004652691	0.005588477
TITANIUM	334.941	Radial	-3.19170	-0.0002204339	0.0007898538	0.0006999097	-0.002151065
VANADIUM	292.402	Radial	-0.4854862	0.003478600	0.003810410	0.001696601	0.004928790
ZINC	206.200	Axial	126.6644	0.003252786	0.003697426	0.003335289	0.002725643

Sample ID: ICSA Units: mg/l
Analyzed: 03/17/25 12:59 Sequence: 240 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4825.495	4754.977	4850.073	4871.436
YTTRIUM	360.073	Axial	47855.19	47481.52	48187.35	47896.69
YTTRIUM	360.073	Radial	4198.019	4168.380	4212.080	4213.596
INDIUM	230.606	Axial	978.3293	968.5870	984.4182	981.9827

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	29549.60	519.5420	518.4792	518.3443	521.8026
ANTIMONY	206.833	Axial	1.627814	0.01019599	0.01093520	0.01129661	0.008356146
ARSENIC	189.042	Axial	0.1541119	-0.006815824	-0.003619615	-0.007992748	-0.008835110
BARIUM	233.527	Axial	6.123706	0.002558191	0.002716451	0.002501782	0.002456340
BERYLLIUM	313.042	Radial	3.764872	-0.00003595719	-0.00007600246	-0.00006546126	0.00003359215
BORON	249.678	Radial	-7.08447	-0.03123782	-0.03097019	-0.03157418	-0.03116909
CADMIUM	228.802	Axial	0.9019778	-0.001136757	-0.0008840376	-0.001508636	-0.001017598
CALCIUM	373.690	Radial	50999.36	518.1376	519.0625	516.3499	519.0004
CERIUM	535.353	Radial	14.79668	0.01847703	0.01612119	0.01516461	0.02414528
CHROMIUM	267.716	Axial	11.44829	0.001293955	0.002376087	0.0002680906	0.001237687
COBALT	228.616	Axial	4.798689	-0.0001994762	-0.0005136777	-0.0001295996	0.00004484861
COPPER	324.754	Axial	6.197070	0.002022274	0.001813415	0.002617193	0.001636216
IRON	271.441	Radial	4272.106	205.6024	206.2759	204.4748	206.0564
LANTHANUM	333.749	Radial	-3.16848	-0.004709134	-0.006323576	-0.004526469	-0.003277357
LEAD	220.353	Axial	-0.4181197	-0.001779968	-0.002603193	-0.002197253	-0.0005394577
LITHIUM	670.784	Radial	-5.23017	0.007408578	0.002629924	0.009461008	0.01013480
MAGNESIUM	279.079	Radial	45511.25	518.9011	520.2489	514.9815	521.4729
MANGANESE	257.610	Axial	-147.905	-0.006544870	-0.006814934	-0.006617510	-0.006202166
MOLYBDENUM	202.030	Axial	-0.7367778	-0.001826804	-0.003128482	0.0001001694	-0.002452100
NICKEL	231.604	Axial	3.054104	0.006871768	0.008146311	0.007921786	0.004547207
PHOSPHORUS	177.495	Axial	3.009145	0.006003712	0.008992126	0.006291598	0.002727412
POTASSIUM	766.490	Radial	-8.98085	0.2360705	0.2343075	0.2657206	0.2081833
SELENIUM	196.090	Axial	-1.71566	-0.01663706	-0.01605910	-0.01808489	-0.01576719
SILICON	251.611	Axial	-3.23817	-0.008070137	-0.008337128	-0.006116706	-0.009756577
SILVER	328.068	Axial	2.627256	0.005228986	0.005905731	0.004095915	0.005685312
SODIUM	589.592	Radial	-18.1343	0.1151850	0.1156536	0.1113812	0.1185202
STRONTIUM	421.552	Radial	67.49476	0.006178854	0.006226763	0.006049055	0.006260744
SULFUR	182.034	Axial	4.011589	-0.01037077	-0.004853161	-0.008253650	-0.01800550
THALLIUM	190.856	Axial	-0.3637784	-0.006176272	-0.007774308	-0.009147733	-0.001606775
TIN	189.989	Axial	1.359212	0.006568911	0.008350740	0.003347928	0.008008064
TITANIUM	334.941	Radial	-9.89457	-0.004340072	-0.004611642	-0.004747573	-0.003661000
VANADIUM	292.402	Radial	5.448798	0.01325920	0.01458350	0.01009654	0.01509756
ZINC	206.200	Axial	173.6702	0.01920309	0.02029995	0.01884860	0.01846073

Sample ID: ICSAB Units: mg/l
Analyzed: 03/17/25 13:00 Sequence: 241 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	4769.891	4729.836	4839.858	4739.978
YTTRIUM	360.073	Axial	48064.25	47622.51	48630.27	47939.98
YTTRIUM	360.073	Radial	4166.273	4174.308	4174.541	4149.969
INDIUM	230.606	Axial	966.6351	961.8842	970.6325	967.3886

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	29610.06	524.5761	525.3453	523.2918	525.0912
ANTIMONY	206.833	Axial	70.42266	0.4992857	0.5089289	0.4883287	0.5005994
ARSENIC	189.042	Axial	99.31537	0.5020655	0.4946997	0.5050891	0.5064077
BARIUM	233.527	Axial	2654.738	0.4881282	0.4842908	0.4867987	0.4932949
BERYLLIUM	313.042	Radial	8313.353	0.5174664	0.5199868	0.5157515	0.5166610
BORON	249.678	Radial	208.4858	0.9977762	1.000034	0.9900109	1.003284
CADMIUM	228.802	Axial	1719.613	0.9808325	0.9775190	0.9759516	0.9890268
CALCIUM	373.690	Radial	51038.25	522.4790	525.2621	520.5060	521.6690
CERIUM	535.353	Radial	12.74385	-0.003644077	-0.0006951206	0.002719260	-0.01295637
CHROMIUM	267.716	Axial	1084.021	0.4918094	0.4868336	0.4897759	0.4988187
COBALT	228.616	Axial	462.5392	0.5562862	0.5479846	0.5627605	0.5581135
COPPER	324.754	Axial	2240.519	0.5305778	0.5299594	0.5292997	0.5324744
IRON	271.441	Radial	4272.278	207.1748	207.8924	206.7823	206.8497
LANTHANUM	333.749	Radial	-4.78199	-0.007841304	-0.007213431	-0.008802502	-0.007507979
LEAD	220.353	Axial	401.2368	1.069251	1.056405	1.080231	1.071118
LITHIUM	670.784	Radial	-4.95173	0.007700622	0.007734399	0.003782047	0.01158542
MAGNESIUM	279.079	Radial	45517.73	522.9251	524.1637	521.5400	523.0716
MANGANESE	257.610	Axial	9932.252	0.5007001	0.4963845	0.5018146	0.5039013
MOLYBDENUM	202.030	Axial	192.7823	0.4525296	0.4552220	0.4481894	0.4541775
NICKEL	231.604	Axial	814.4713	1.101804	1.088344	1.103668	1.113400
PHOSPHORUS	177.495	Axial	1.291173	-0.002752027	-0.004018136	-0.003143117	-0.001094829
POTASSIUM	766.490	Radial	-8.27972	0.2425474	0.2407449	0.2383388	0.2485587
SELENIUM	196.090	Axial	62.09422	0.4611706	0.4669229	0.4533053	0.4632837
SILICON	251.611	Axial	899.5463	0.9453838	0.9408584	0.9399252	0.9553677
SILVER	328.068	Axial	3622.806	0.8415965	0.8320554	0.8387694	0.8539647
SODIUM	589.592	Radial	-16.6535	0.1188805	0.1034285	0.1343047	0.1189084
STRONTIUM	421.552	Radial	68.38787	0.006315543	0.006074115	0.006485864	0.006386652
SULFUR	182.034	Axial	4.490361	-0.0007869804	-0.009521134	0.004156032	0.003004161
THALLIUM	190.856	Axial	72.99820	0.5054937	0.5007408	0.5201974	0.4955429
TIN	189.989	Axial	170.0516	0.5361240	0.5286092	0.5401068	0.5396560
TITANIUM	334.941	Radial	827.0609	0.5038608	0.5045915	0.5043590	0.5026320
VANADIUM	292.402	Radial	301.6327	0.5068133	0.5093179	0.5026393	0.5084827
ZINC	206.200	Axial	2202.497	0.9451248	0.9407341	0.9324189	0.9622215

3050B ICP SS Metals Prep Benchsheet

Workgroup: WG2469957

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835037	WG2469385	BJM688	PREPREPBAL4	14-MAR-25
L1835042	WG2469385	BJM688	PREPREPBAL4	14-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25

Prep Start Date/Time: 03/16/25 22:42-22:43 **Analyst:** CLW4046 **Balance ID:** METBAL6 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Pipette ID:** 101109445
Hotblock ID: MPF **Digestion Chips Lot #:** 25C10377 **Thermometer ID#:** 1042830 **Thermometer Location:** A2 **Prep Start Analyst:** CLW4046
Dig. Start Date/Time: 03/16/25 23:17:56 **Prep End Date/Time:** 03/17/25 06:01 **Prep End Analyst:** CLW4046 **Dig. End Date/Time:** 03/17/25 03:46:56
Pipette Tip Lot#: 24440172 **Method:** 3050B **SOP:** ENV-SOP-MTJL-0217 **Sieve ID:** NA **Sieve Size:** NA

1:1 Nitric Acid: 25C12740 Amt. Used: 5 mL Exp. Date:08/06/25 **Nitric Acid:** 25C16351 Amt. Used: 2.50 mL Exp. Date:09/16/25
Hydrogen Peroxide: 25C10403 Amt. Used: 1.50 mL Exp. Date:09/10/25 **Hydrochloric Acid:** 25C12739 Amt. Used: 2.50 mL Exp. Date:09/12/25
High Spike: 25B24106 Amt. Used: 0.50 mL Exp. Date:08/24/25 **High Spike 2:** 25B24107 Amt. Used: 0.50 mL Exp. Date:08/24/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Spike Factor	Review Analyst	Review Date
BLANK	0.51	50	PELLETS	1	VSS117	03/17/25 06:21:05
LCS	0.51	50	PELLETS	1	VSS117	03/17/25 06:21:05
MS(L1835037-06)	0.53	50	SOIL	1	VSS117	03/17/25 06:21:05
MSD(L1835037-06)	0.54	50	SOIL	1	VSS117	03/17/25 06:21:05
1. L1835037-04	0.54	50	SOIL	1	VSS117	03/17/25 06:21:05
2. L1835037-05	0.51	50	SOIL	1	VSS117	03/17/25 06:21:05
3. L1835037-06	0.53	50	SOIL	1	VSS117	03/17/25 06:21:05
4. L1835042-03	0.51	50	SOIL	1	VSS117	03/17/25 06:21:05
5. L1835560-01	0.51	50	SOIL	1	VSS117	03/17/25 06:21:05
6. L1835560-02	0.49	50	SOIL	1	VSS117	03/17/25 06:21:05
7. L1835560-03	0.53	50	SOIL	1	VSS117	03/17/25 06:21:05
8. L1835560-04	0.55	50	SOIL	1	VSS117	03/17/25 06:21:05
9. L1835560-05	0.52	50	SOIL	1	VSS117	03/17/25 06:21:05
10. L1835560-07	0.53	50	SOIL	1	VSS117	03/17/25 06:21:05
11. L1835560-08	0.53	50	SOIL	1	VSS117	03/17/25 06:21:05
12. L1835568-01	0.48	50	SOIL	1	VSS117	03/17/25 06:21:05
13. L1835568-02	0.55	50	SOIL	1	VSS117	03/17/25 06:21:05
14. L1835568-03	0.48	50	SOIL	1	VSS117	03/17/25 06:21:05
15. L1835568-04	0.50	50	SOIL	1	VSS117	03/17/25 06:21:05
16. L1835568-05	0.53	50	SOIL	1	VSS117	03/17/25 06:21:05
17. L1835568-06	0.50	50	SOIL	1	VSS117	03/17/25 06:21:05
18. L1835568-07	0.50	50	SOIL	1	VSS117	03/17/25 06:21:05
19. L1835568-08	0.50	50	SOIL	1	VSS117	03/17/25 06:21:05
20. L1835568-09	0.50	50	SOIL	1	VSS117	03/17/25 06:21:05

Comments:
peer review by VS117 3/17/25

Reviewed By:VSS117 on 03/17/25 06:21:05

#	Type	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Hotblock	0	03/16/25 23:17:52	95	95	03/17/25 03:46:07	96	96	BLANK, LCS, MS(L1835037-06), MSD(L1835037-06), L1835037-04, L1835037-05, L1835037-06, L1835042-03, L1835560-01, L1835560-02, L1835560-03, L1835560-04, L1835560-05, L1835560-07, L1835560-08, L1835568-01, L1835568-02, L1835568-03, L1835568-04, L1835568-05, L1835568-06, L1835568-07, L1835568-08, L1835568-09

7199 Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-I-SO

Lab Sample ID:	L1835568-01	**SDG:**	L1835568
Client Sample ID:	CLINTON-SCHOOL-DITCH-I-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	36.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/16/25 16:13
Analytical Batch:	WG2469425	**Analysis Date/Time:**	03/17/25 04:41
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.53 g
Total Solids (%):	67.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.564	1.49

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
18-901-I-SO

Lab Sample ID:	L1835568-02	**SDG:**	L1835568
Client Sample ID:	18-901-I-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	12.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/17/25 20:21
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.46 g
Total Solids (%):	68.9	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.550	1.45

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-03	**SDG:**	L1835568
Client Sample ID:	K-18-I-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	13.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/17/25 20:31
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.49 g
Total Solids (%):	65.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.579	1.53

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-04	**SDG:**	L1835568
Client Sample ID:	P-230-I-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	14.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/17/25 20:40
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.47 g
Total Solids (%):	65.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.579	1.53

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-05	**SDG:**	L1835568
Client Sample ID:	P-350-I-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	15.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/17/25 20:50
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.52 g
Total Solids (%):	68.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.556	1.47

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-06	**SDG:**	L1835568
Client Sample ID:	NHR-I-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	16.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/17/25 21:00
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.50 g
Total Solids (%):	83.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.456	1.20

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DUP-SO-031125

Lab Sample ID:	L1835568-07	**SDG:**	L1835568
Client Sample ID:	DUP-SO-031125	**Collected Date/Time:**	03/11/25 17:00
Lab File ID:	18.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/17/25 21:19
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.48 g
Total Solids (%):	69.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.543	1.43

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-08	**SDG:**	L1835568
Client Sample ID:	FLYASH-I-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	19.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/17/25 21:28
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.50 g
Total Solids (%):	58.9	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.643	1.70

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SO

Lab Sample ID:	L1835568-09	**SDG:**	L1835568
Client Sample ID:	MONTROSE-LAKE-I-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	23.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/17/25 22:38
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.45 g
Total Solids (%):	71.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.532	1.40

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187032-1	**SDG:**	L1835568
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	10.0000.txt	**Received Date/Time:**	
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/16/25 16:12
Analytical Batch:	WG2469425	**Analysis Date/Time:**	03/17/25 00:30
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.52 g
Total Solids (%):		**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187472-1	**SDG:**	L1835568
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	10.0000.txt	**Received Date/Time:**	
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 09:59
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/17/25 20:02
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.50 g
Total Solids (%):		**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187032-3	**SDG:**	L1835568
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	16.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/16/25 16:13
Analytical Batch:	WG2469425	**Analysis Date/Time:**	03/17/25 01:28
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.53 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187032-2	**SDG:**	L1835568
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	11.0000.txt	**Received Date/Time:**	
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/16/25 16:12
Analytical Batch:	WG2469425	**Analysis Date/Time:**	03/17/25 00:40
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.48 g
Total Solids (%):		**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	10.6		0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187472-2	**SDG:**	L1835568
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	11.0000.txt	**Received Date/Time:**	_____
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 09:59
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/17/25 20:11
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.52 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	10.4		0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187032-8	**SDG:**	L1835568
Client Sample ID:	DUP	**Collected Date/Time:**	03/14/25 09:30
Lab File ID:	41.0000.txt	**Received Date/Time:**	03/15/25 08:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/16/25 16:13
Analytical Batch:	WG2469425	**Analysis Date/Time:**	03/17/25 05:29
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.48 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187472-3	**SDG:**	L1835568
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	17.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/17/25 21:09
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.54 g
Total Solids (%):	83.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.456	1.20

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187472-4	**SDG:**	L1835568
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	22.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/17/25 22:28
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.50 g
Total Solids (%):	58.9	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.643	1.70

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187032-4	**SDG:**	L1835568
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 11:15
Lab File ID:	25.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/16/25 16:13
Analytical Batch:	WG2469425	**Analysis Date/Time:**	03/17/25 02:55
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.50 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	18.2		0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187032-6	**SDG:**	L1835568
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 11:15
Lab File ID:	27.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/16/25 16:13
Analytical Batch:	WG2469425	**Analysis Date/Time:**	03/17/25 03:14
Dilution Factor:	50	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.47 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	639		19.0	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187472-5	**SDG:**	L1835568
Client Sample ID:	MS	**Collected Date/Time:**	03/13/25 14:43
Lab File ID:	35.0000.txt	**Received Date/Time:**	03/15/25 08:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/18/25 01:07
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.50 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	15.4		0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187472-7	**SDG:**	L1835568
Client Sample ID:	MS	**Collected Date/Time:**	03/13/25 14:43
Lab File ID:	37.0000.txt	**Received Date/Time:**	03/15/25 08:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/18/25 01:27
Dilution Factor:	50	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.51 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	656		19.0	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187032-5	**SDG:**	L1835568
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 11:15
Lab File ID:	26.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/16/25 16:13
Analytical Batch:	WG2469425	**Analysis Date/Time:**	03/17/25 03:05
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.46 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	13.6	J3 J6	0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187472-6	**SDG:**	L1835568
Client Sample ID:	MSD	**Collected Date/Time:**	03/13/25 14:43
Lab File ID:	36.0000.txt	**Received Date/Time:**	03/15/25 08:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/18/25 01:17
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.50 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	12.3	J3 J6	0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187032-7	**SDG:**	L1835568
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 11:15
Lab File ID:	28.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/16/25 16:13
Analytical Batch:	WG2469425	**Analysis Date/Time:**	03/17/25 03:24
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.47 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	20.4		0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187472-8	**SDG:**	L1835568
Client Sample ID:	PS	**Collected Date/Time:**	03/13/25 14:43
Lab File ID:	38.0000.txt	**Received Date/Time:**	03/15/25 08:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/17/25 11:32
Analytical Batch:	WG2470186	**Analysis Date/Time:**	03/18/25 01:36
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.54 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	18.4		0.379	1.00

CALIBRATION VERIFICATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725 SS
Concentration Units:	mg/l		

		ICV				CCV				CCV			
Sample ID:		METALSIC300317250002				METALSIC300317250207				METALSIC300317250402			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
HEXAVALENT CHROMIUM	0.50	0.5193	104		0.50	0.5126	103		0.50	0.5151	103	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725 SS
Concentration Units:	mg/l		

CCV

Sample ID: METALSIC300317250539

Analyte	True	Found	%R	%RSD
HEXAVALENT CHROMIUM	0.50	0.5120	102	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725_3 SS
Concentration Units:	mg/l		

		CCV				CCV				CCV			
Sample ID:		METALSIC300317252138				METALSIC300318250004				METALSIC300318250146			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
HEXAVALENT CHROMIUM	0.50	0.5132	103		0.50	0.5174	103		0.50	0.4771	95.40	

CCV Limits: 90 - 110

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031425 SS

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	09.0000.txt	
Analyte	mg/l	
HEXAVALENT CHROMIUM	0.0000	

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725 SS

Sample ID:	**ICB Result**	**ICB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	09.0000.txt		10.0000.txt		21.0000.txt		33.0000.txt	
Analyte	mg/l		mg/kg		mg/l		mg/l	
HEXAVALENT CHROMIUM	0.0000		U		0.0000		0.0000	

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725 SS

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	43.0000.txt	
Analyte	mg/l	
HEXAVALENT CHROMIUM	0.0000	

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725_3 SS

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	10.0000.txt		21.0000.txt		33.0000.txt		40.0000.txt	
Analyte	mg/kg		mg/l		mg/l		mg/l	
HEXAVALENT CHROMIUM	U		0.0000		0.0000		0.0000	

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031825 SS

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	09.0000.txt	
Analyte	mg/l	
HEXAVALENT CHROMIUM	0.0000	

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031925 SS

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	09.0000.txt	
Analyte	mg/l	
HEXAVALENT CHROMIUM	0.0000	

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	032125 SS

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	09.0000.txt	
Analyte	mg/l	
HEXAVALENT CHROMIUM	0.0000	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835568-01

SAMPLE NO.:
R4187032-4
R4187032-5

MS Sample / File ID:	R4187032-4 / 25.0000.txt	**SDG:**	L1835568
MSD Sample / File ID:	R4187032-5 / 26.0000.txt	**Analytical Batch:**	WG2469425
OS Sample / File ID:	L1835011-01 / 24.0000.txt	**Matrix:**	Solid
Instrument ID:	METALSIC30		
Analytical Method:	7199		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	20.0	U	18.2	13.6	91.1	67.9*	1	75.0 - 125	29.2*	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835568-01

SAMPLE NO.:
R4187032-6

MS Sample / File ID:	R4187032-6 / 27.0000.txt	**SDG:**	L1835568
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2469425
OS Sample / File ID:	L1835011-01 / 24.0000.txt	**Matrix:**	Solid
Instrument ID:	METALSIC30		
Analytical Method:	7199		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	651	U	639		98.1		50	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835568-02,03,04,05,06,07,08,09

SAMPLE NO.:
R4187472-5
R4187472-6

MS Sample / File ID:	R4187472-5 / 35.0000.txt	**SDG:**	L1835568
MSD Sample / File ID:	R4187472-6 / 36.0000.txt	**Analytical Batch:**	WG2470186
OS Sample / File ID:	L1836601-09 / 34.0000.txt	**Matrix:**	Solid
Instrument ID:	METALSIC30		
Analytical Method:	7199		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	20.0	U	15.4	12.3	76.8	61.7*	1	75.0 - 125	21.7*	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835568-02,03,04,05,06,07,08,09

SAMPLE NO.:
R4187472-7

MS Sample / File ID:	R4187472-7 / 37.0000.txt	**SDG:**	L1835568
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2470186
OS Sample / File ID:	L1836601-09 / 34.0000.txt	**Matrix:**	Solid
Instrument ID:	METALSIC30		
Analytical Method:	7199		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	641	U	656		102		50	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5B-IN

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1835568-01

SAMPLE NO.:
R4187032-7

PS Sample / File ID:	R4187032-7 / 28.0000.txt	**SDG:**	L1835568
OS Sample / File ID:	L1835011-01 / 24.0000.txt	**Analytical Batch:**	WG2469425
Instrument ID:	METALSIC30	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	Spike Amount	OS Result	PD Result	DS Result	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	20.0	U	20.4		102		1	85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5B-IN

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1835568-02,03,04,05,06,07,08,09

SAMPLE NO.: R4187472-8

PS Sample / File ID:	R4187472-8 / 38.0000.txt	**SDG:**	L1835568
OS Sample / File ID:	L1836601-09 / 34.0000.txt	**Analytical Batch:**	WG2470186
Instrument ID:	METALSIC30	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	Spike Amount	OS Result	PD Result	DS Result	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	20.0	U	18.4		91.9		1	85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187032-3 / 16.0000.txt	**SDG:**	L1835568
OS Sample / File ID:	L1834873-06 / 15.0000.txt	**Analytical Batch:**	WG2469425
Instrument ID:	METALSIC30	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/kg	*mg/kg*	*%*	*%*
Hexavalent Chromium	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187032-8 / 41.0000.txt	**SDG:**	L1835568
OS Sample / File ID:	L1836596-02 / 40.0000.txt	**Analytical Batch:**	WG2469425
Instrument ID:	METALSIC30	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/kg	*mg/kg*	*%*	*%*
Hexavalent Chromium	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187472-3 / 17.0000.txt	**SDG:**	L1835568
OS Sample / File ID:	L1835568-06 / 16.0000.txt	**Analytical Batch:**	WG2470186
Instrument ID:	METALSIC30	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Hexavalent Chromium	U	U	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187472-4 / 22.0000.txt	**SDG:**	L1835568
OS Sample / File ID:	L1835568-08 / 19.0000.txt	**Analytical Batch:**	WG2470186
Instrument ID:	METALSIC30	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Hexavalent Chromium	U	U	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835568-01

SAMPLE NO.:
R4187032-2

LCS Sample / File ID:	R4187032-2 / 11.0000.txt	**SDG:**	L1835568
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2469425
Instrument ID:	METALSIC30	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Hexavalent Chromium	10.0	10.6		106		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835568-02,03,04,05,06,07,08,09

SAMPLE NO.:
R4187472-2

LCS Sample / File ID:	R4187472-2 / 11.0000.txt	**SDG:**	L1835568
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2470186
Instrument ID:	METALSIC30	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Hexavalent Chromium	10.0	10.4		104		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835568-01,02,03,04,05,06,07,08,09 **Analytical Method:** 7199

Matrix: Solid **Prep Method:** 3060A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Hexavalent Chromium	18540-29-9			0.3790	1

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	7199
Instrument ID:	METALSIC30	**Calibration Start Date:**	_____
Analytical Run:	031425 SS	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	CAL 1	01.0000.TXT	03/13/25 19:07		
CAL	CAL 2	02.0000.TXT	03/13/25 19:16		
CAL	CAL 3	03.0000.TXT	03/13/25 19:26		
CAL	CAL 4	04.0000.TXT	03/13/25 19:35		
CAL	CAL 5	05.0000.TXT	03/13/25 19:45		
CAL	CAL 6	06.0000.TXT	03/13/25 19:55		
CAL	CAL 7	07.0000.TXT	03/13/25 20:04		
ICB	METALSIC300313252024	09.0000.txt	03/13/25 20:24		

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	7199
Instrument ID:	METALSIC30	**Calibration Start Date:**	03/13/25 19:07
Analytical Run:	031725 SS	**Calibration End Date:**	03/13/25 20:04

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	METALSIC300317250002	08.0000.txt	03/17/25 00:02		
ICB	METALSIC300317250012	09.0000.txt	03/17/25 00:12		
BLANK	R4187032-1	10.0000.txt	03/17/25 00:30	1	WG2469425
LCS	R4187032-2	11.0000.txt	03/17/25 00:40	1	WG2469425
L1828604-10	L1828604-10	12.0000.txt	03/17/25 00:50	1	WG2469425
L1834873-04	L1834873-04	13.0000.txt	03/17/25 00:59	1	WG2469425
L1834873-05	L1834873-05	14.0000.txt	03/17/25 01:09	1	WG2469425
OS	L1834873-06	15.0000.txt	03/17/25 01:19		
L1834873-06	L1834873-06	15.0000.txt	03/17/25 01:19	1	WG2469425
DUP	R4187032-3	16.0000.txt	03/17/25 01:28	1	WG2469425
L1834879-01	L1834879-01	17.0000.txt	03/17/25 01:38	1	WG2469425
L1834879-02	L1834879-02	18.0000.txt	03/17/25 01:47	1	WG2469425
L1834879-03	L1834879-03	19.0000.txt	03/17/25 01:57	1	WG2469425
CCV	METALSIC300317250207	20.0000.txt	03/17/25 02:07		
CCB	METALSIC300317250216	21.0000.txt	03/17/25 02:16		
L1834879-04	L1834879-04	22.0000.txt	03/17/25 02:26	1	WG2469425
L1834879-05	L1834879-05	23.0000.txt	03/17/25 02:36	1	WG2469425
OS	L1835011-01	24.0000.txt	03/17/25 02:45		
L1835011-01	L1835011-01	24.0000.txt	03/17/25 02:45	1	WG2469425
MS	R4187032-4	25.0000.txt	03/17/25 02:55	1	WG2469425
MSD	R4187032-5	26.0000.txt	03/17/25 03:05	1	WG2469425
MS	R4187032-6	27.0000.txt	03/17/25 03:14	50	WG2469425
PS	R4187032-7	28.0000.txt	03/17/25 03:24	1	WG2469425
L1835011-02	L1835011-02	29.0000.txt	03/17/25 03:33	1	WG2469425
L1835011-03	L1835011-03	30.0000.txt	03/17/25 03:43	1	WG2469425
L1835310-01	L1835310-01	31.0000.txt	03/17/25 03:53	1	WG2469425
CCV	METALSIC300317250402	32.0000.txt	03/17/25 04:02		
CCB	METALSIC300317250412	33.0000.txt	03/17/25 04:12		
L1835310-02	L1835310-02	34.0000.txt	03/17/25 04:22	1	WG2469425
L1835310-03	L1835310-03	35.0000.txt	03/17/25 04:31	1	WG2469425
CLINTON-SCHOOL-DITCH-I-SO	L1835568-01	36.0000.txt	03/17/25 04:41	1	WG2469425
L1836591-01	L1836591-01	37.0000.txt	03/17/25 04:50	1	WG2469425
L1836591-02	L1836591-02	38.0000.txt	03/17/25 05:00	1	WG2469425
L1836596-01	L1836596-01	39.0000.txt	03/17/25 05:10	1	WG2469425
OS	L1836596-02	40.0000.txt	03/17/25 05:19		
L1836596-02	L1836596-02	40.0000.txt	03/17/25 05:19	1	WG2469425
DUP	R4187032-8	41.0000.txt	03/17/25 05:29	1	WG2469425
CCV	METALSIC300317250539	42.0000.txt	03/17/25 05:39		
CCB	METALSIC300317250548	43.0000.txt	03/17/25 05:48		

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	7199
Instrument ID:	METALSIC30	**Calibration Start Date:**	03/13/25 19:07
Analytical Run:	031725_3 SS	**Calibration End Date:**	03/13/25 20:04

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4187472-1	10.0000.txt	03/17/25 20:02	1	WG2470186
LCS	R4187472-2	11.0000.txt	03/17/25 20:11	1	WG2470186
18-901-I-SO	L1835568-02	12.0000.txt	03/17/25 20:21	1	WG2470186
K-18-I-SO	L1835568-03	13.0000.txt	03/17/25 20:31	1	WG2470186
P-230-I-SO	L1835568-04	14.0000.txt	03/17/25 20:40	1	WG2470186
P-350-I-SO	L1835568-05	15.0000.txt	03/17/25 20:50	1	WG2470186
NHR-I-SO	L1835568-06	16.0000.txt	03/17/25 21:00	1	WG2470186
DUP	R4187472-3	17.0000.txt	03/17/25 21:09	1	WG2470186
DUP-SO-031125	L1835568-07	18.0000.txt	03/17/25 21:19	1	WG2470186
FLYASH-I-SO	L1835568-08	19.0000.txt	03/17/25 21:28	1	WG2470186
CCV	METALSIC300317252138	20.0000.txt	03/17/25 21:38		
CCB	METALSIC300317252148	21.0000.txt	03/17/25 21:48		
DUP	R4187472-4	22.0000.txt	03/17/25 22:28	1	WG2470186
MONTROSE-LAKE-I-SO	L1835568-09	23.0000.txt	03/17/25 22:38	1	WG2470186
L1836601-01	L1836601-01	24.0000.txt	03/17/25 22:47	1	WG2470186
L1836601-02	L1836601-02	25.0000.txt	03/17/25 22:57	1	WG2470186
L1836601-03	L1836601-03	26.0000.txt	03/17/25 23:07	1	WG2470186
L1836601-04	L1836601-04	27.0000.txt	03/17/25 23:16	1	WG2470186
L1836601-05	L1836601-05	28.0000.txt	03/17/25 23:26	1	WG2470186
L1836601-06	L1836601-06	29.0000.txt	03/17/25 23:36	1	WG2470186
L1836601-07	L1836601-07	30.0000.txt	03/17/25 23:45	1	WG2470186
L1836601-08	L1836601-08	31.0000.txt	03/17/25 23:55	1	WG2470186
CCV	METALSIC300318250004	32.0000.txt	03/18/25 00:04		
CCB	METALSIC300318250014	33.0000.txt	03/18/25 00:14		
OS	L1836601-09	34.0000.txt	03/18/25 00:58		
L1836601-09	L1836601-09	34.0000.txt	03/18/25 00:58	1	WG2470186
MS	R4187472-5	35.0000.txt	03/18/25 01:07	1	WG2470186
MSD	R4187472-6	36.0000.txt	03/18/25 01:17	1	WG2470186
MS	R4187472-7	37.0000.txt	03/18/25 01:27	50	WG2470186
PS	R4187472-8	38.0000.txt	03/18/25 01:36	1	WG2470186
CCV	METALSIC300318250146	39.0000.txt	03/18/25 01:46		
CCB	METALSIC300318250310	40.0000.txt	03/18/25 03:10		

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	7199
Instrument ID:	METALSIC30	**Calibration Start Date:**	_____
Analytical Run:	031825 SS	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICB	METALSIC300318252236	09.0000.txt	03/18/25 22:36		

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	7199
Instrument ID:	METALSIC30	**Calibration Start Date:**	_____
Analytical Run:	031925 SS	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICB	METALSIC300319251718	09.0000.txt	03/19/25 17:18		

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	7199
Instrument ID:	METALSIC30	**Calibration Start Date:**	_____
Analytical Run:	032125 SS	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICB	METALSIC300321250855	09.0000.txt	03/21/25 08:55		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725 SS

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.01	.0106	106	0.05	.0459	91.80
File ID:		02.0000.TXT			03.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725 SS

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.10	.1016	102	0.25	.2527	101
File ID:		04.0000.TXT			05.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725 SS

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.50	.5011	100	1	.9982	99.80
File ID:		06.0000.TXT			07.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725_3 SS

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.01	.0106	106	0.05	.0459	91.80
File ID:		02.0000.TXT			03.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725_3 SS

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.10	.1016	102	0.25	.2527	101
File ID:		04.0000.TXT			05.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725_3 SS

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.50	.5011	100	1	.9982	99.80
File ID:		06.0000.TXT			07.0000.TXT	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725 SS

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
HEXAVALENT CHROMIUM	5	1	0.99987			124.299	0.189	4.808

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725_3 SS

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
HEXAVALENT CHROMIUM	5	1	0.99987			124.299	0.189	4.808

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

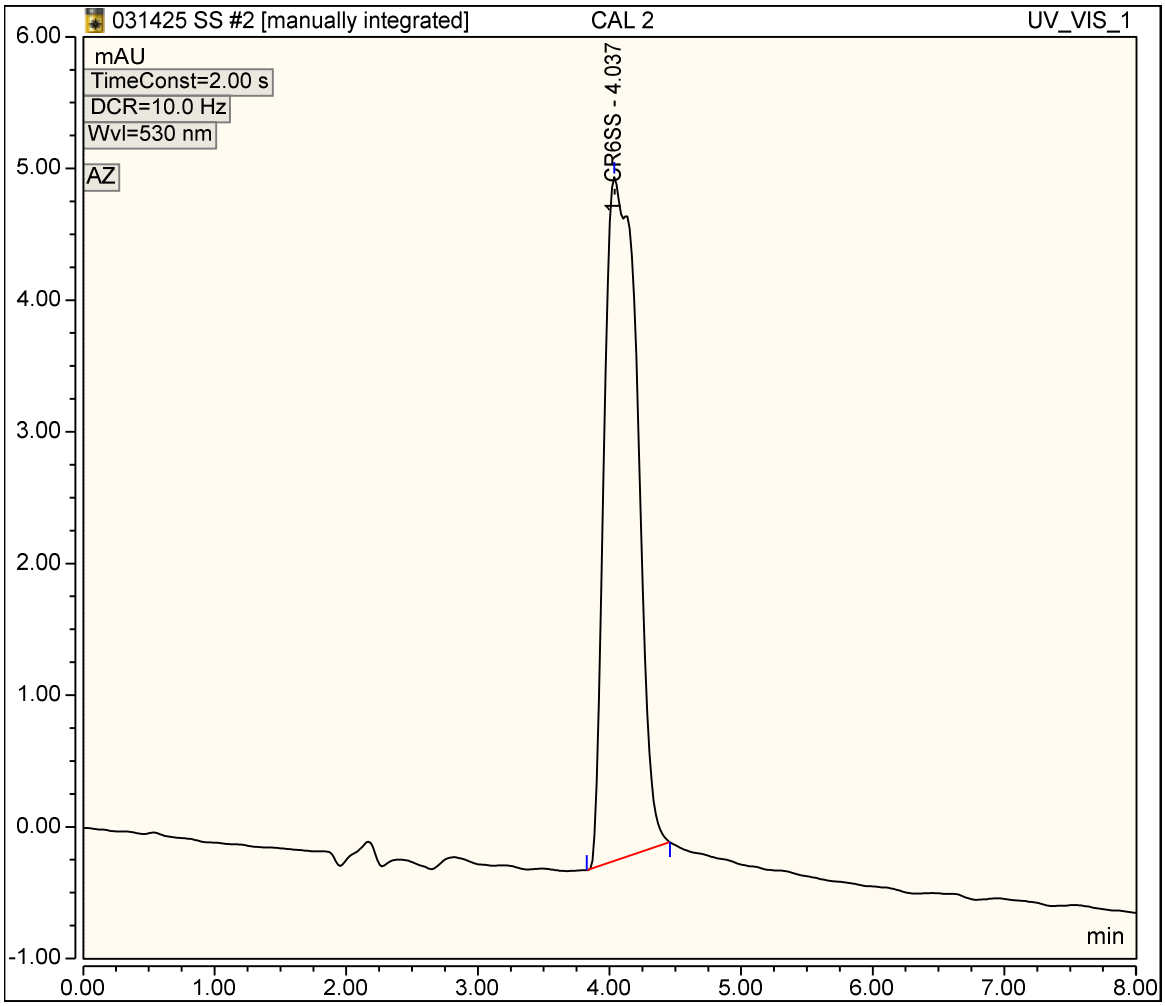
Sample Name:	**CAL 1**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 19:07**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



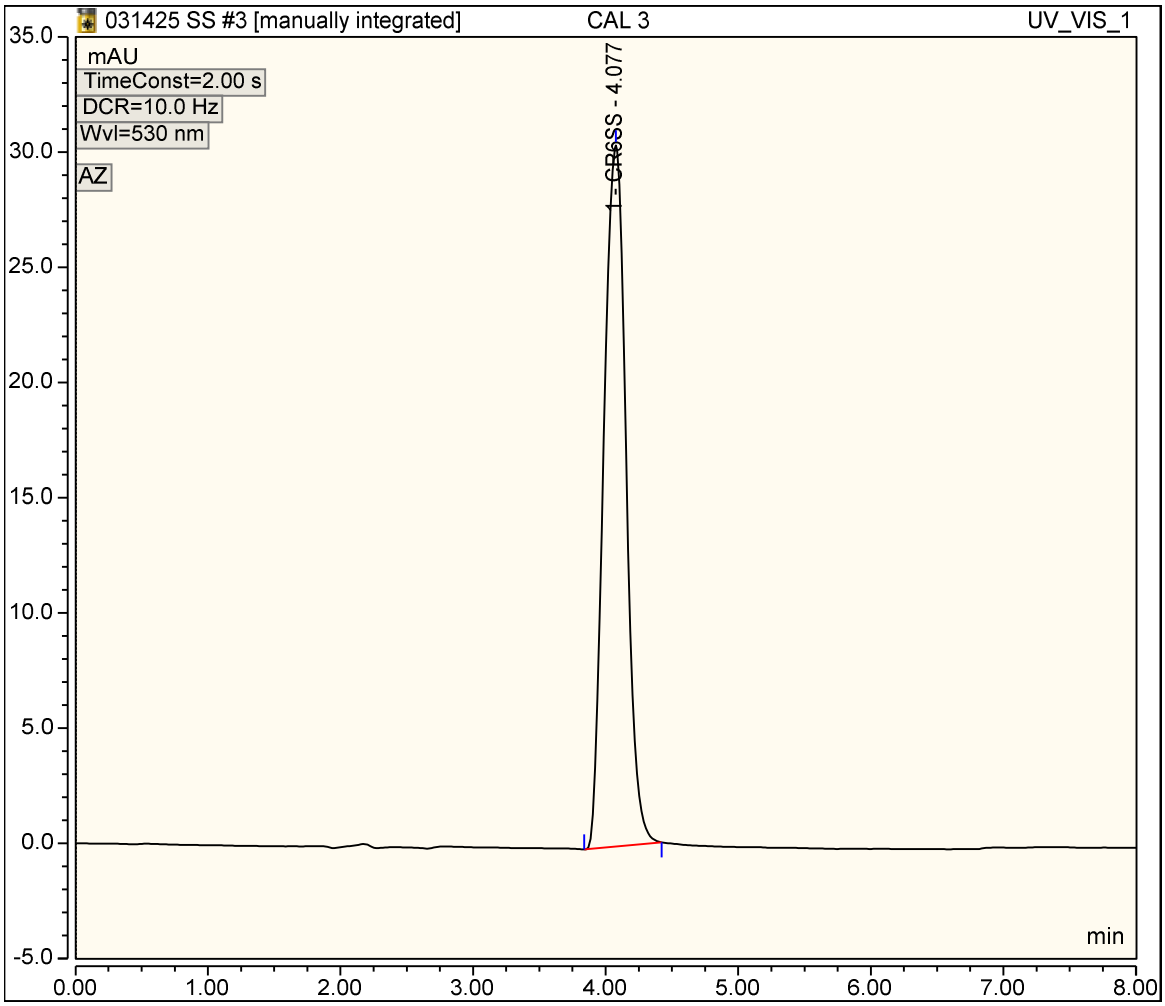
Sample Name:	**CAL 2**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: ANW4260 031325**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 19:16**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.04	CR6SS	BMB*	1.501	5.192	0.0106
		TOTAL:		1.50	5.19	0.01



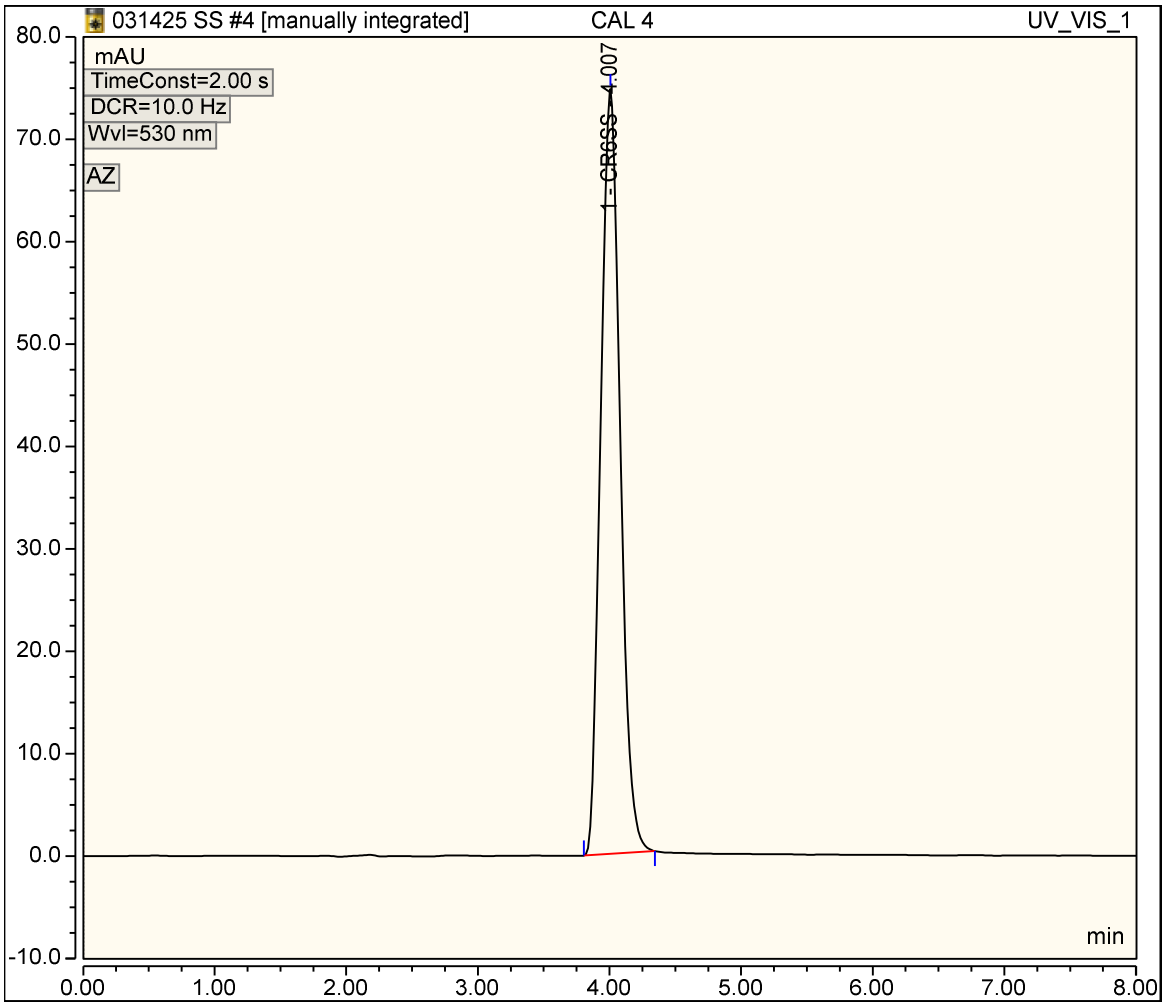
Sample Name:	**CAL 3**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: ANW4260 031325**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 19:26**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.08	CR6SS	BMB*	5.890	30.417	0.0459
		TOTAL:		5.89	30.42	0.05



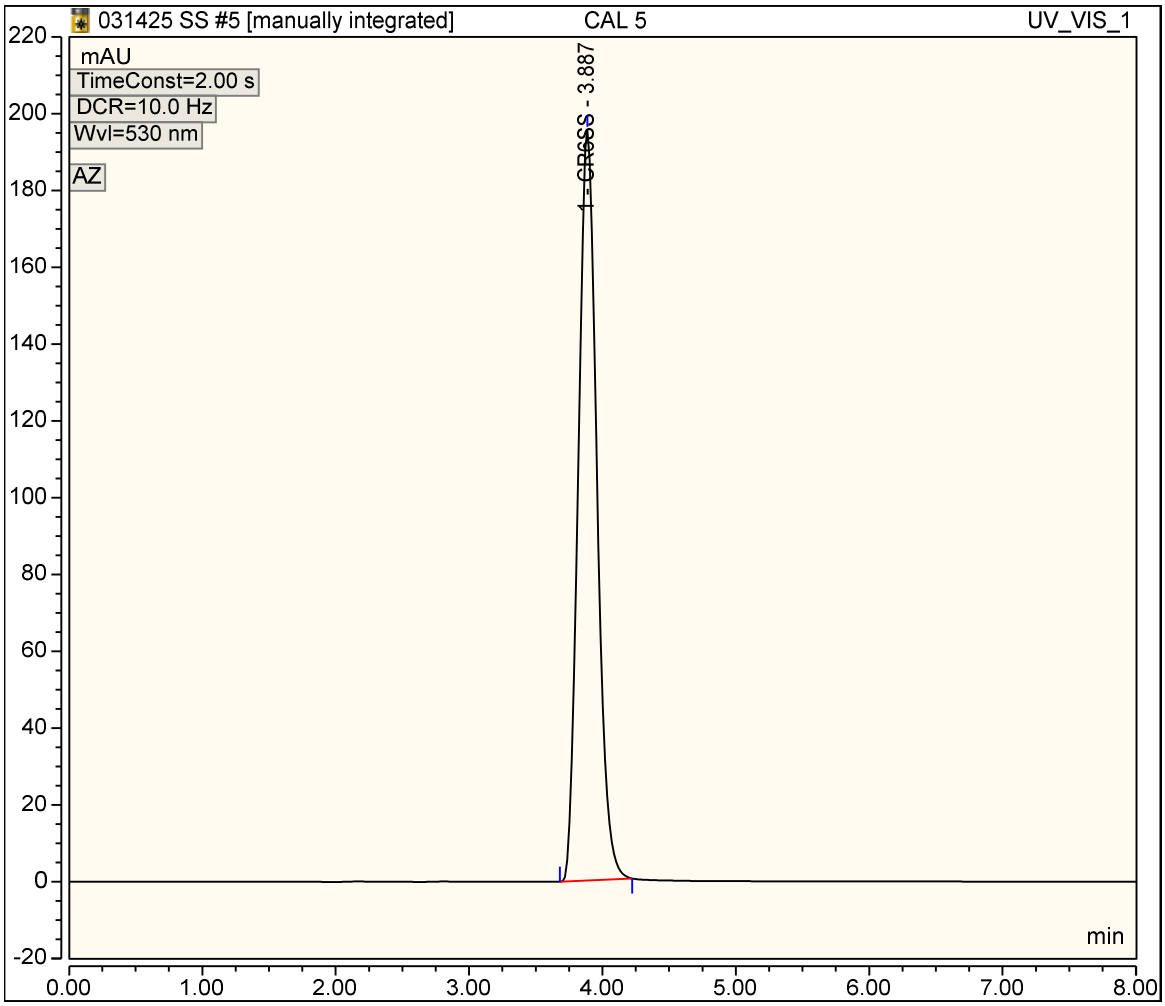
Sample Name:	**CAL 4**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: ANW4260 031325**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 19:35**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.01	CR6SS	BMB*	12.812	74.673	0.1016
		TOTAL:		12.81	74.67	0.10



Sample Name:	**CAL 5**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: ANW4260 031325**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 19:45**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.89	CR6SS	BMB*	31.605	195.297	0.2527
		TOTAL:		31.61	195.30	0.25

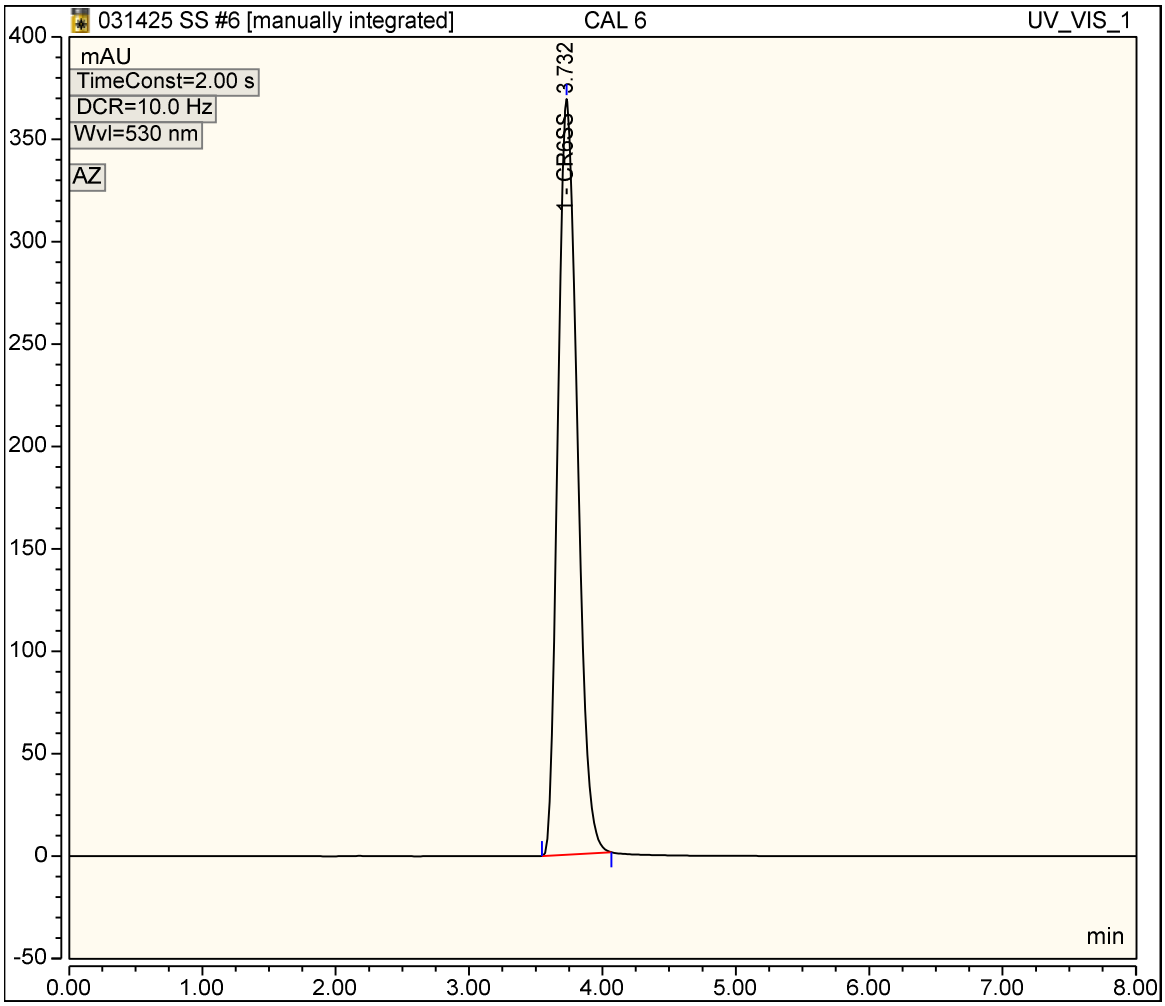


Export for Tree/Integration

PeakNet 6 (r) Dionex 2001
Version 7.2.10.23925

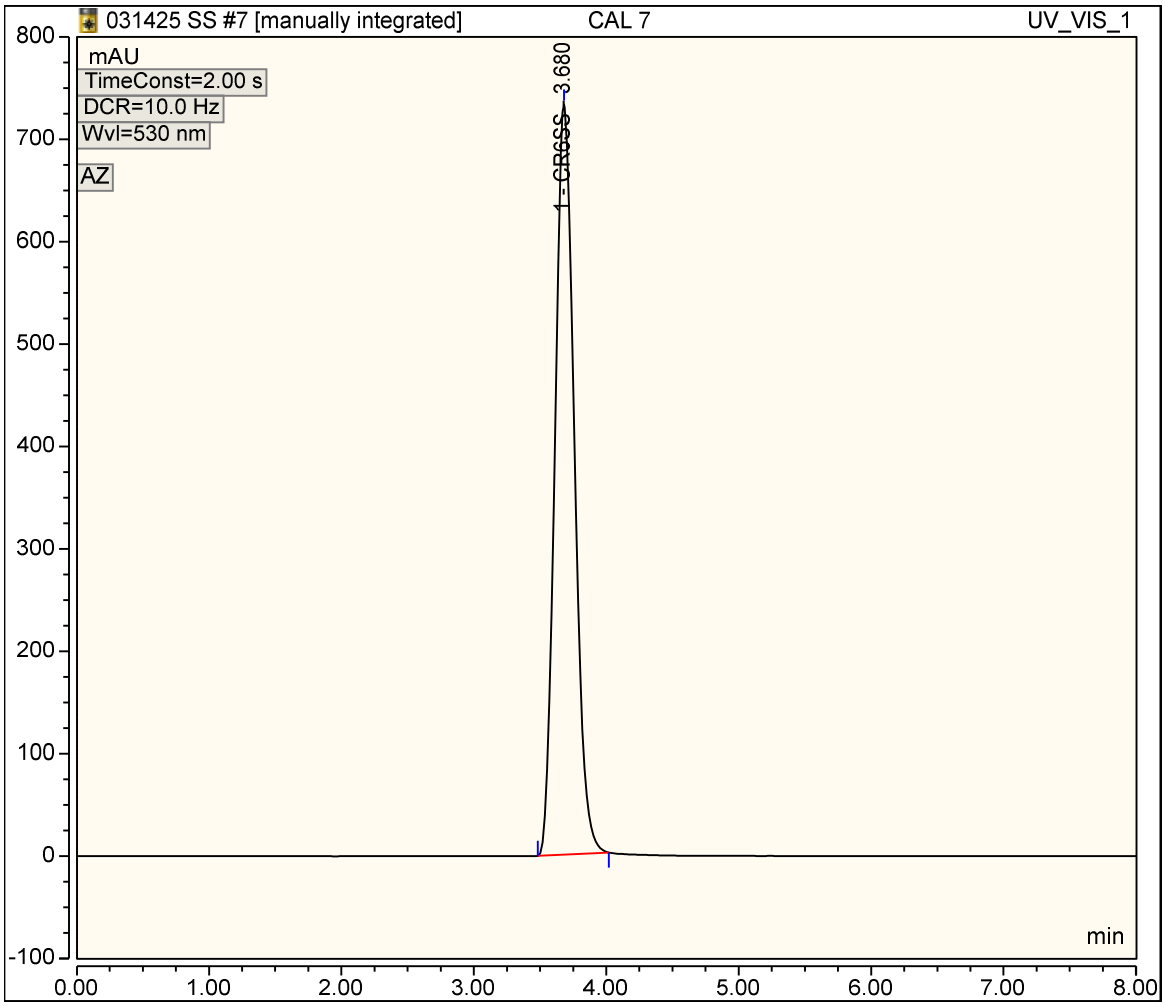
Sample Name:	**CAL 6**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: ANW4260 031325**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 19:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.73	CR6SS	BMB*	62.478	368.963	0.5011
		TOTAL:		62.48	368.96	0.50



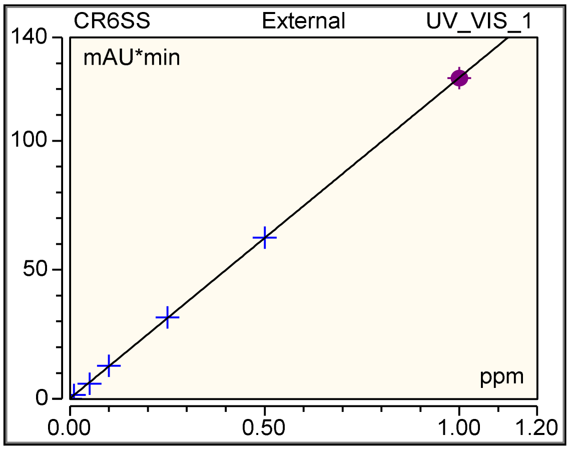
Sample Name:	**CAL 7**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: ANW4260 031325**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 20:04**	*Run Time:*	**8.00**

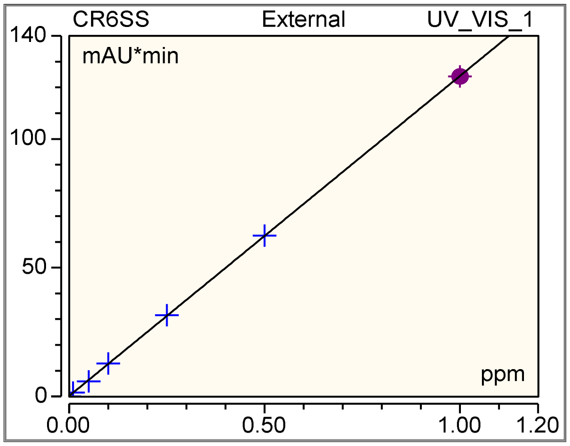
No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.68	CR6SS	BMB*	124.259	732.596	0.9982
		TOTAL:		124.26	732.60	1.00

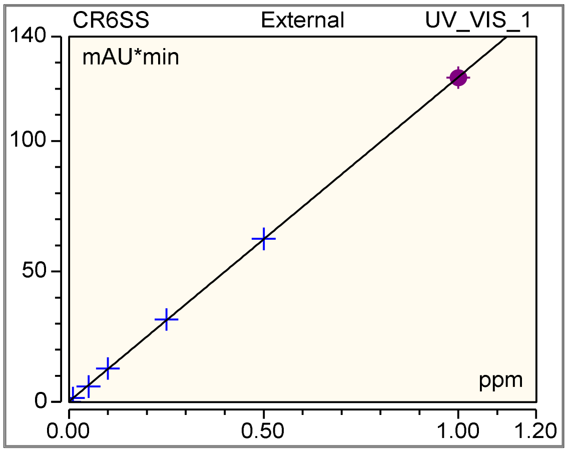


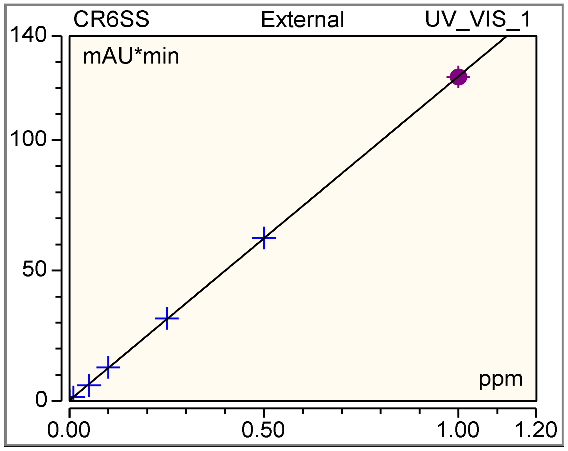
Calibration Batch Report

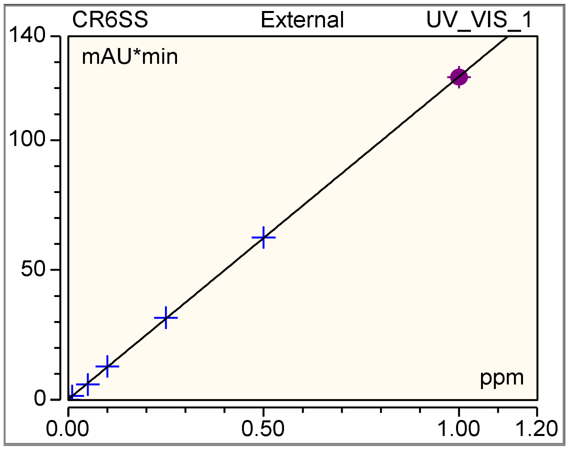
Sequence:	**031425 SS**	Inj. Vol.:	**250.0**
Program:	**Cr6**	Operator:	**WETLABIC25**
Inj. Date/Time:	**03/13/25 20:04**	Run Time:	**8.00**

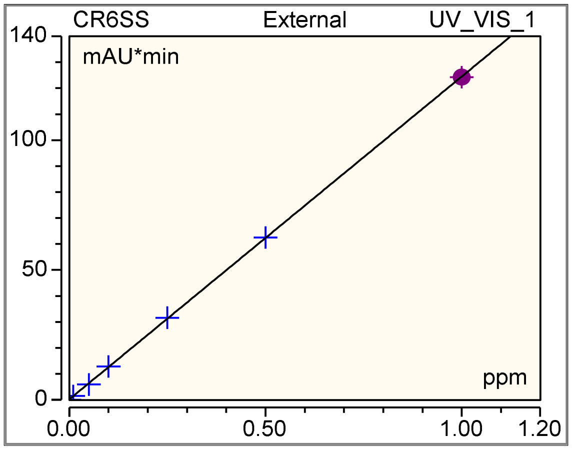




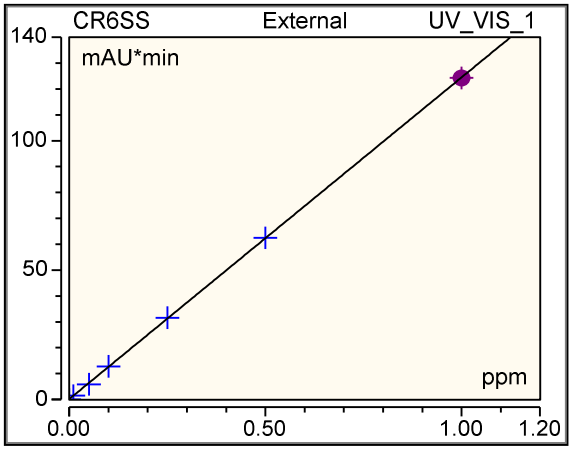








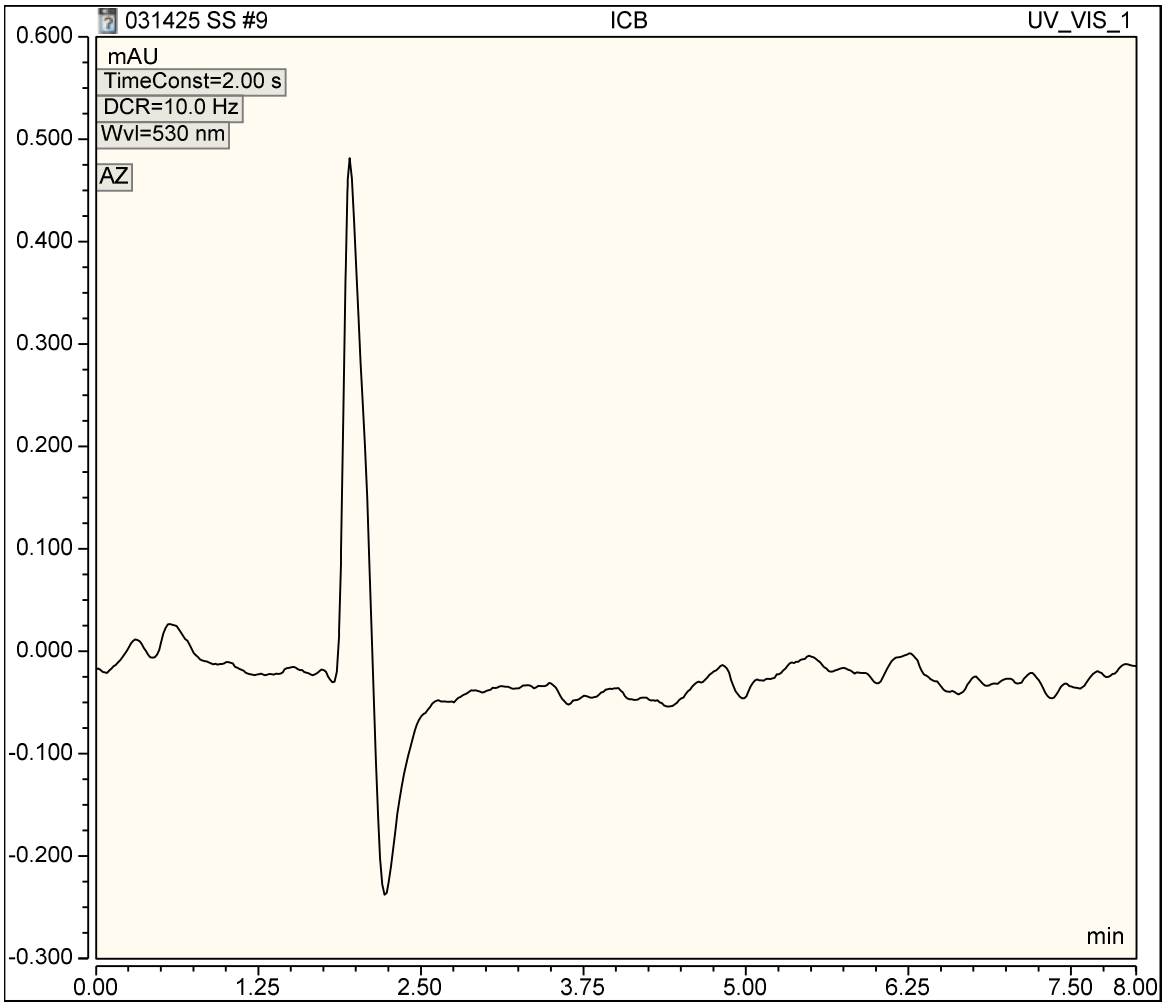
Sequence:	**031425 SS**	*Inj. Vol.:*	**250.0**
Program:	**Cr6**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/13/25 20:04**	*Run Time:*	**8.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.68	CR6SS	, WithOffset, 1	6	0.189	124.299	0.000	99.987
AVERAGE:					0.1891	124.2992	0.0000	99.9868

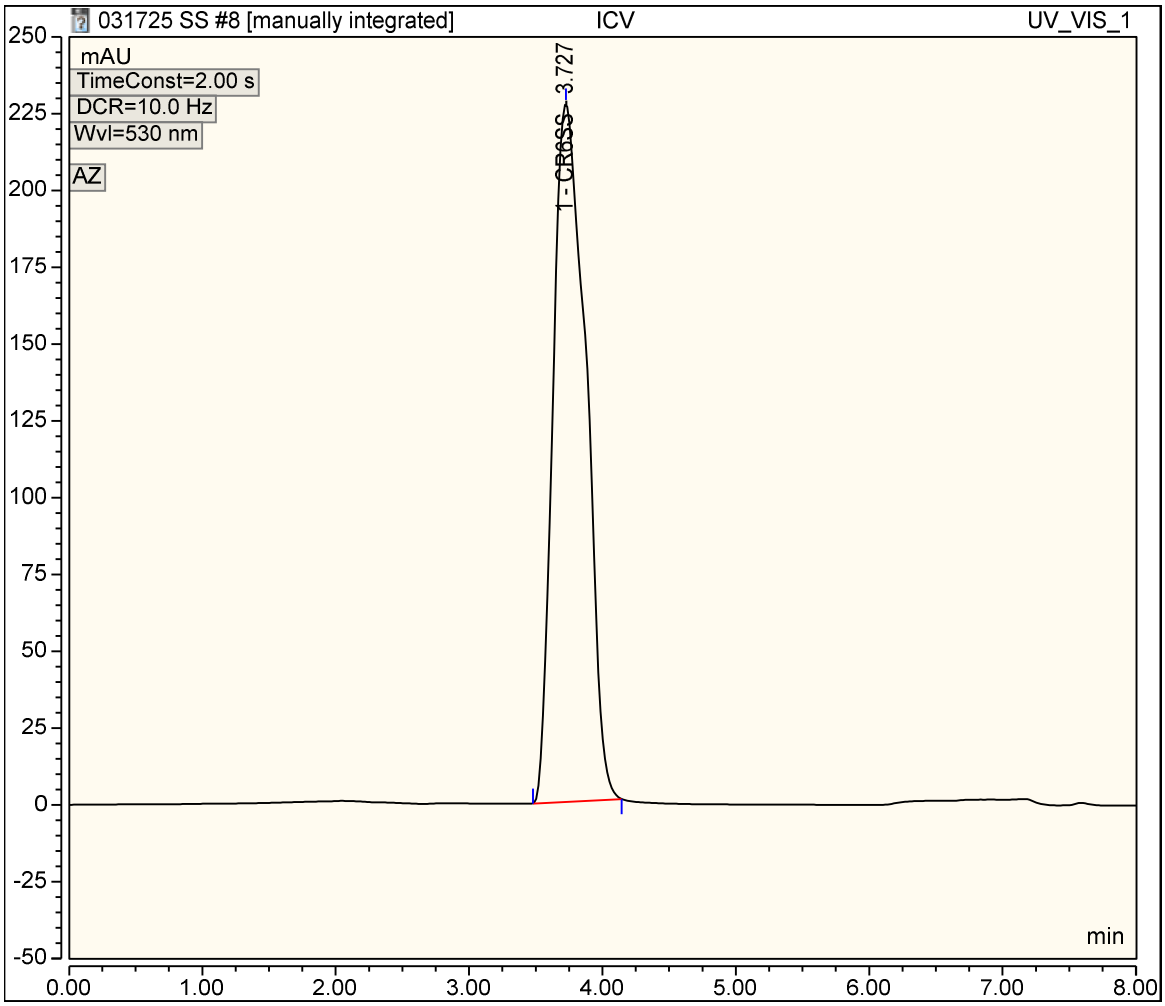
Sample Name:	**ICB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 20:24**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



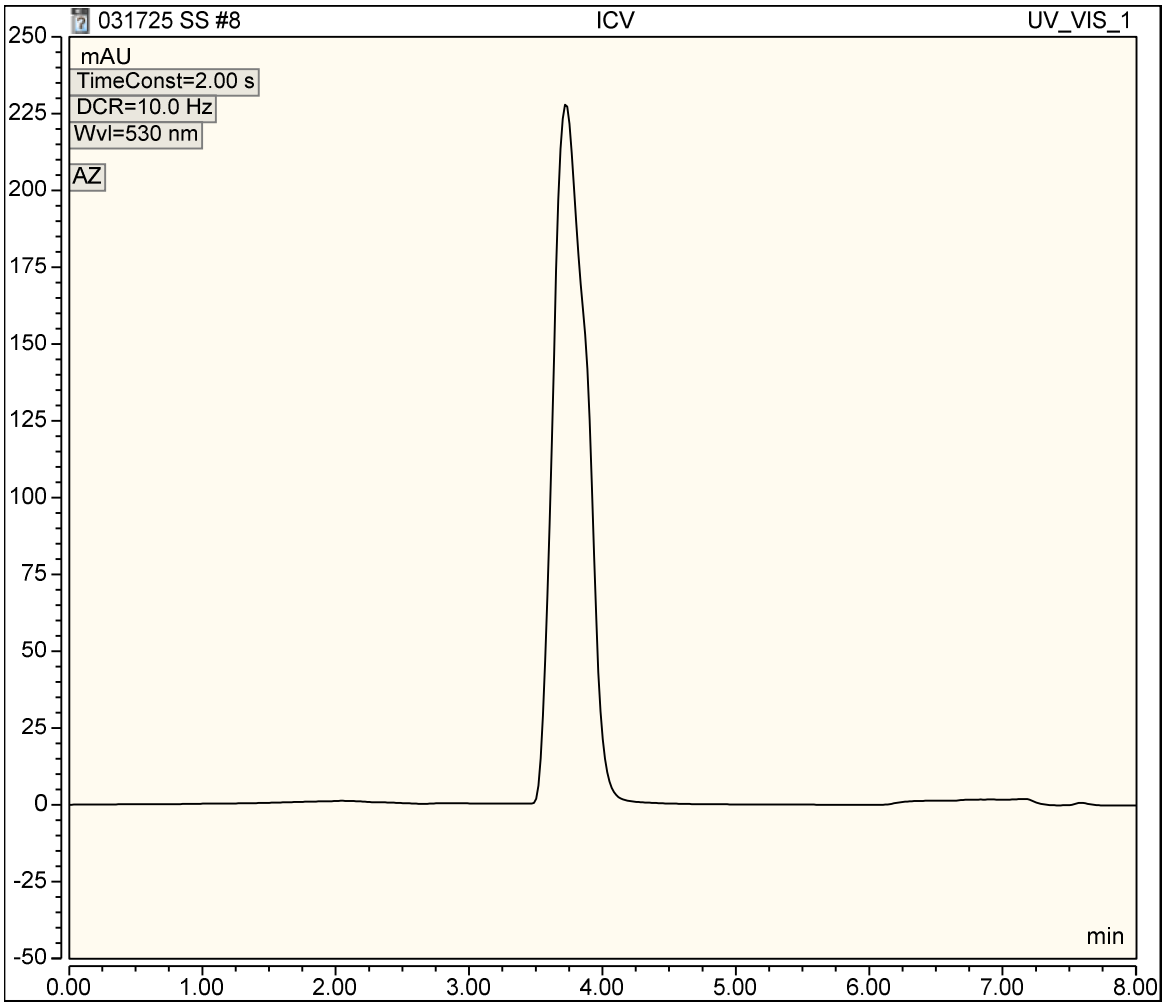
Sample Name:	**ICV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 00:02**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.73	CR6SS	BMB*	64.737	227.271	0.5193
		TOTAL:		64.74	227.27	0.52



Sample Name:	**ICV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 00:02**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



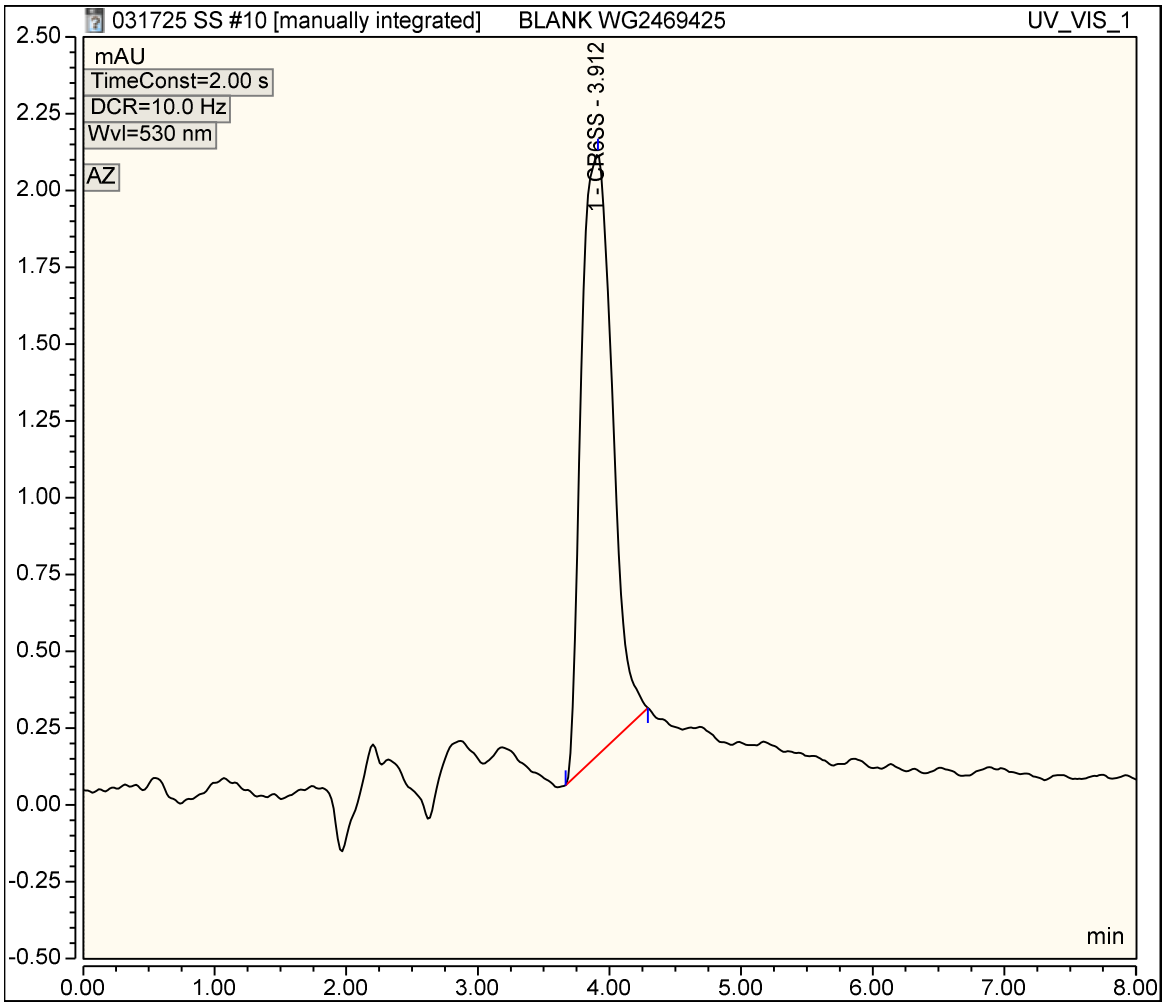
Sample Name:	**ICB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 00:12**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**BLANK WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 00:30**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.91	CR6SS	BMB*	0.537	1.957	0.0028
		TOTAL:		0.54	1.96	0.00

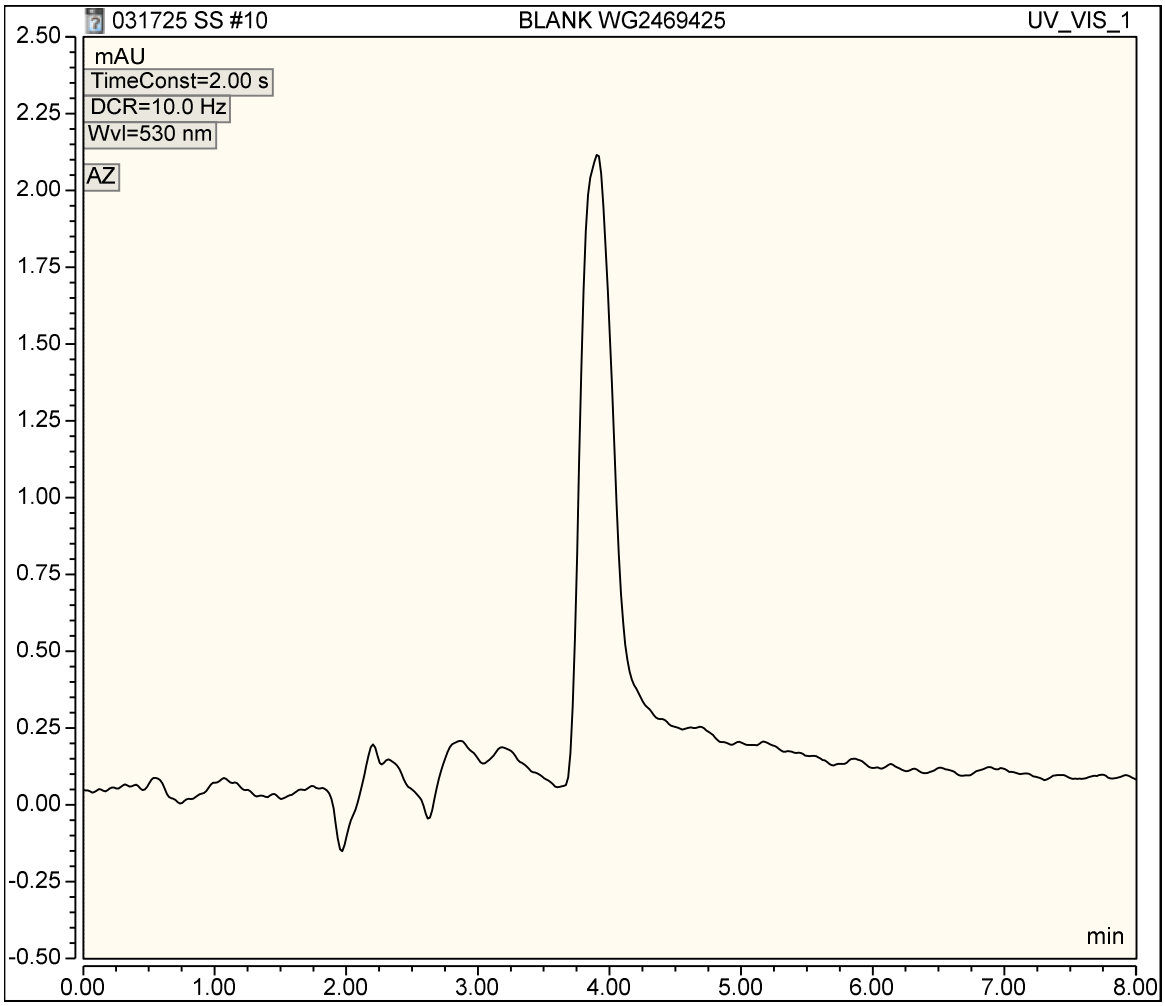


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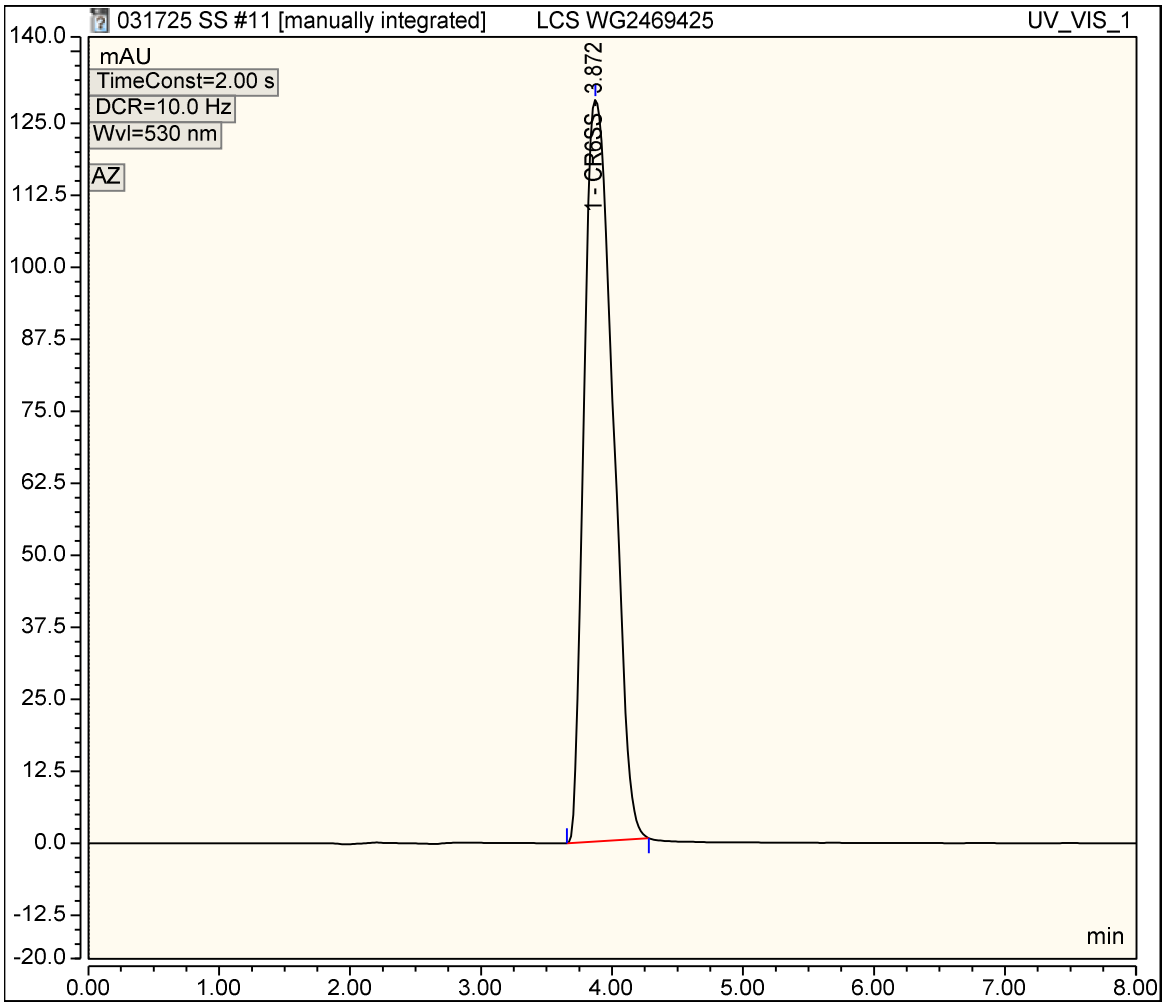
Sample Name:	**BLANK WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 00:30**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



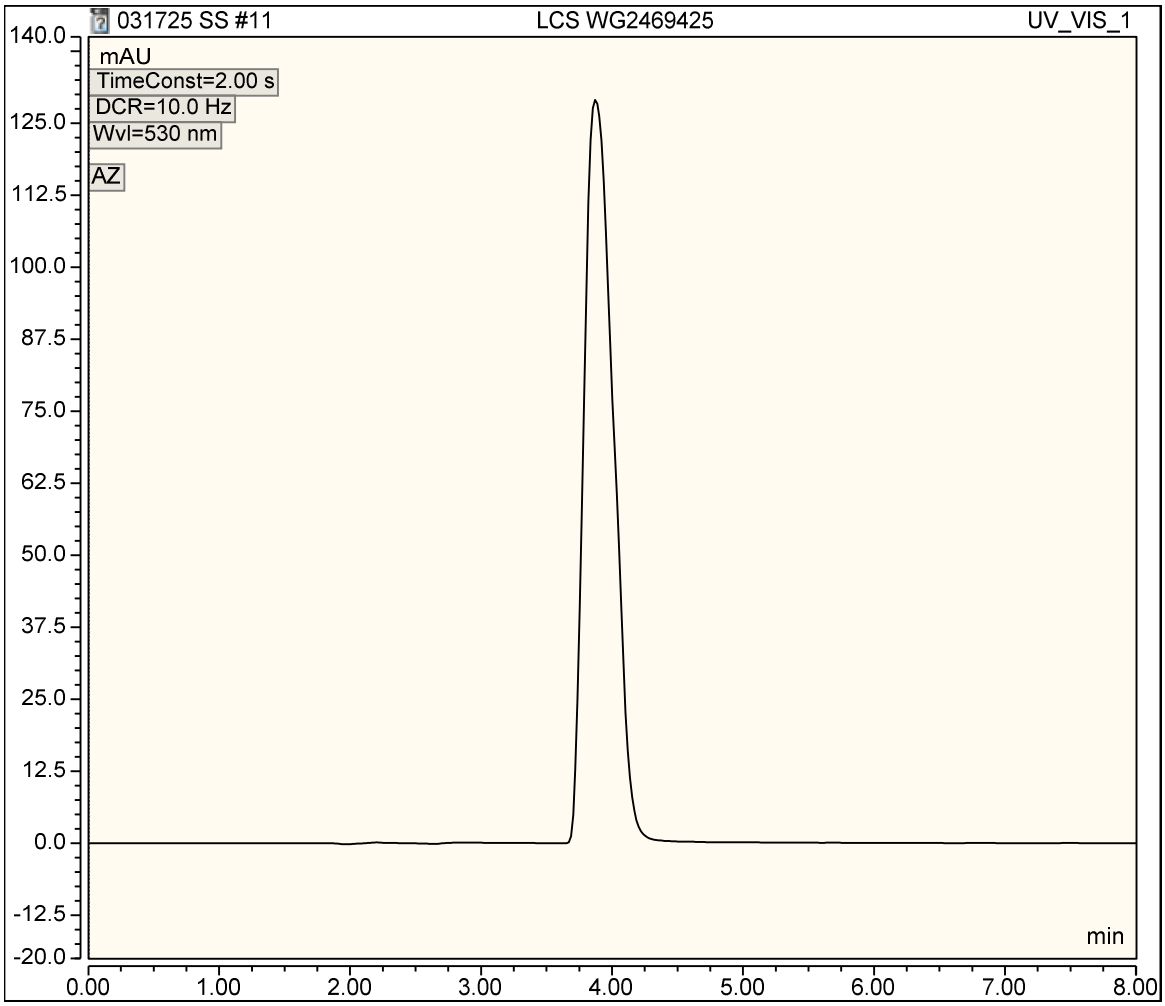
Sample Name:	**LCS WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 00:40**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.87	CR6SS	BMB*	32.937	128.751	0.2635
		TOTAL:		32.94	128.75	0.26



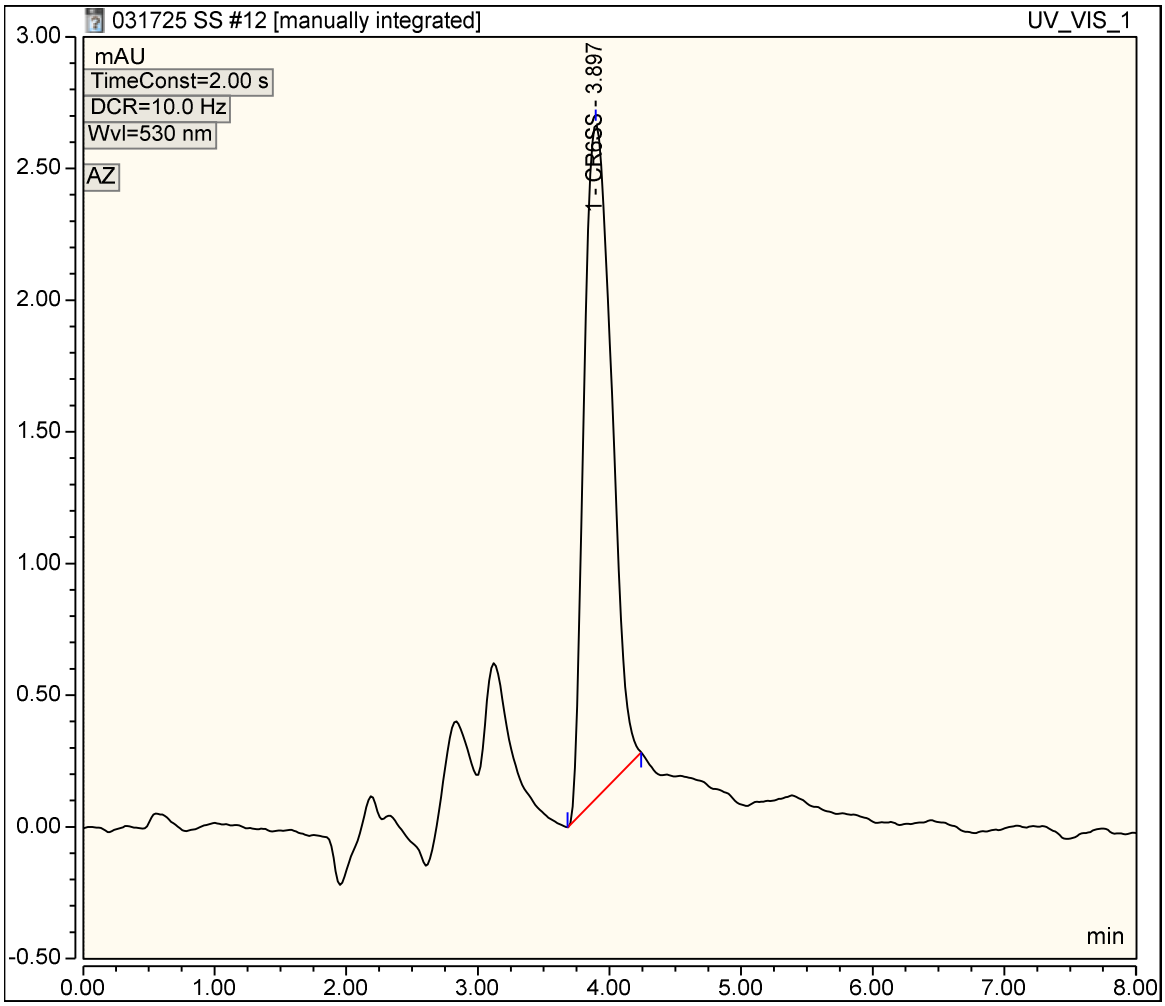
Sample Name:	**LCS WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 00:40**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**L1828604-10 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 00:50**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.90	CR6SS	BMB*	0.620	2.560	0.0035
		TOTAL:		0.62	2.56	0.00

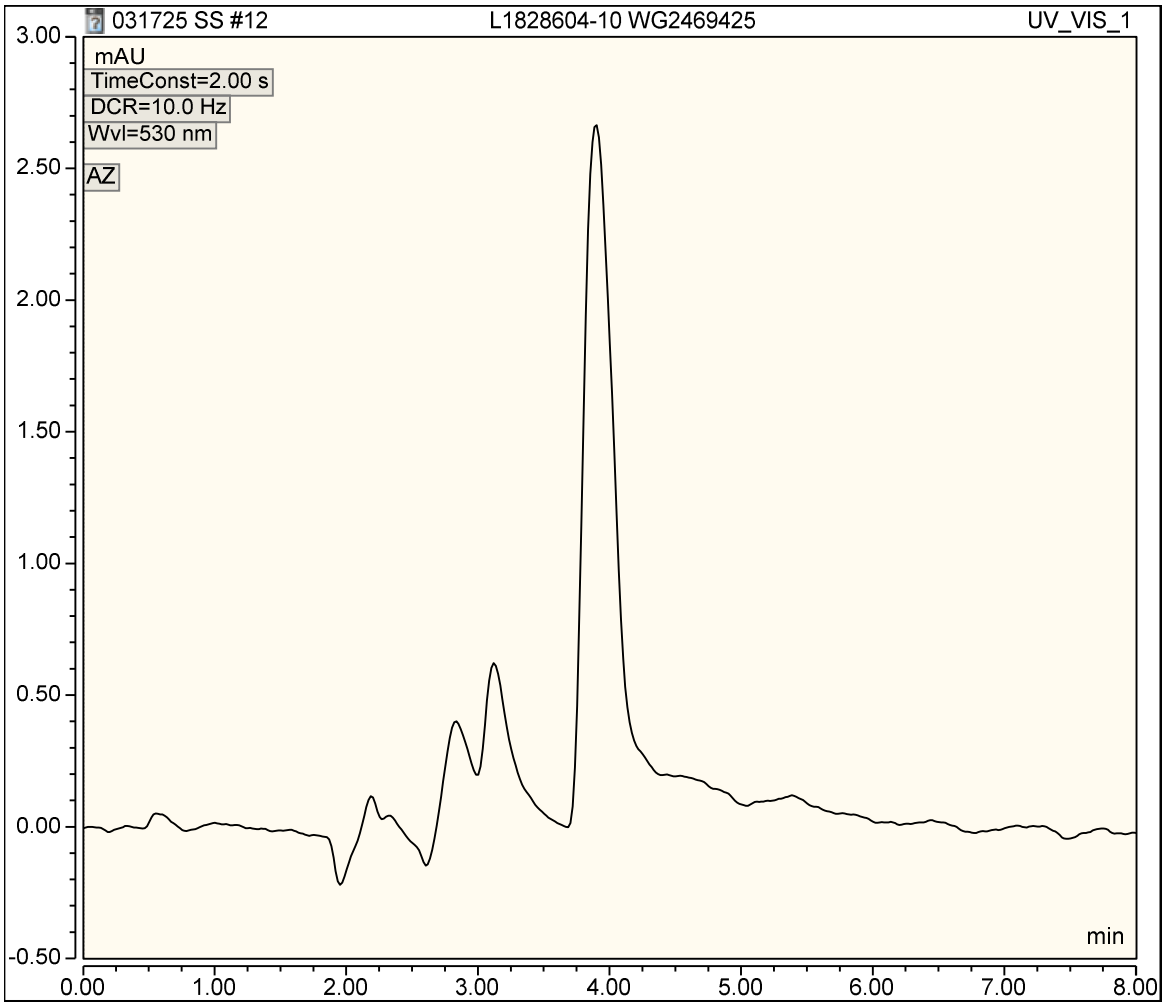


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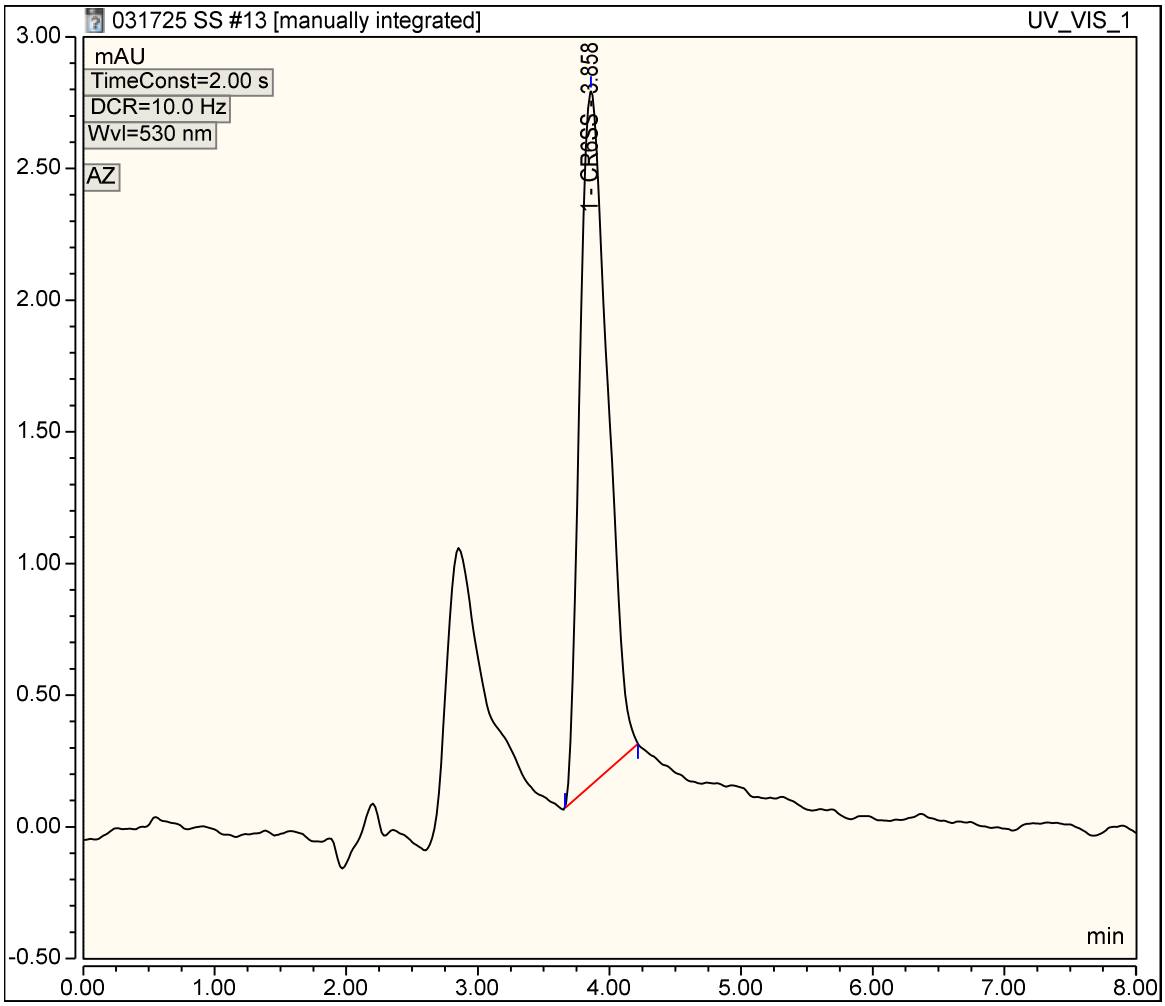
Sample Name:	**L1828604-10 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 00:50**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



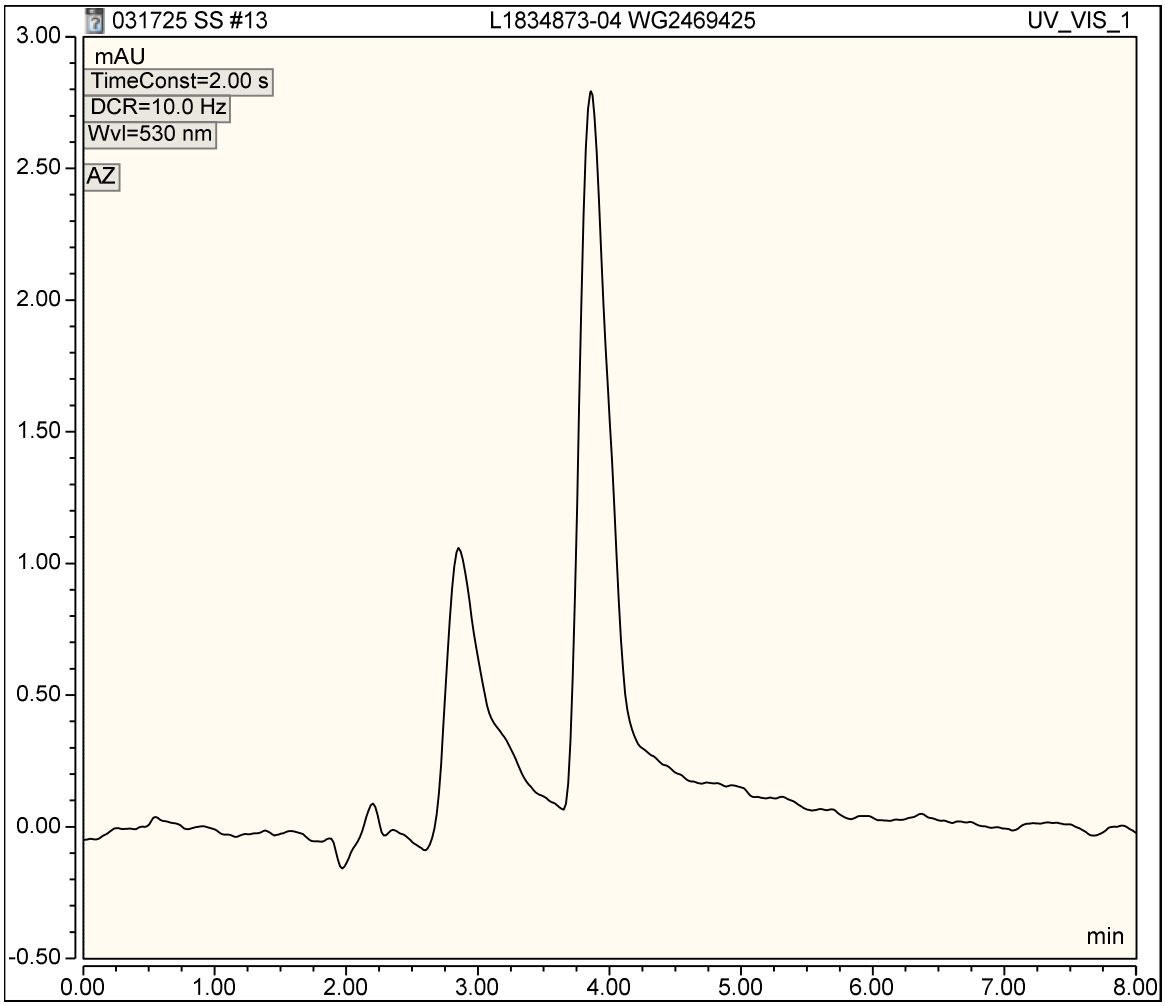
Sample Name:	**L1834873-04 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 00:59**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.86	CR6SS	BMB*	0.645	2.636	0.0037
		TOTAL:		0.64	2.64	0.00



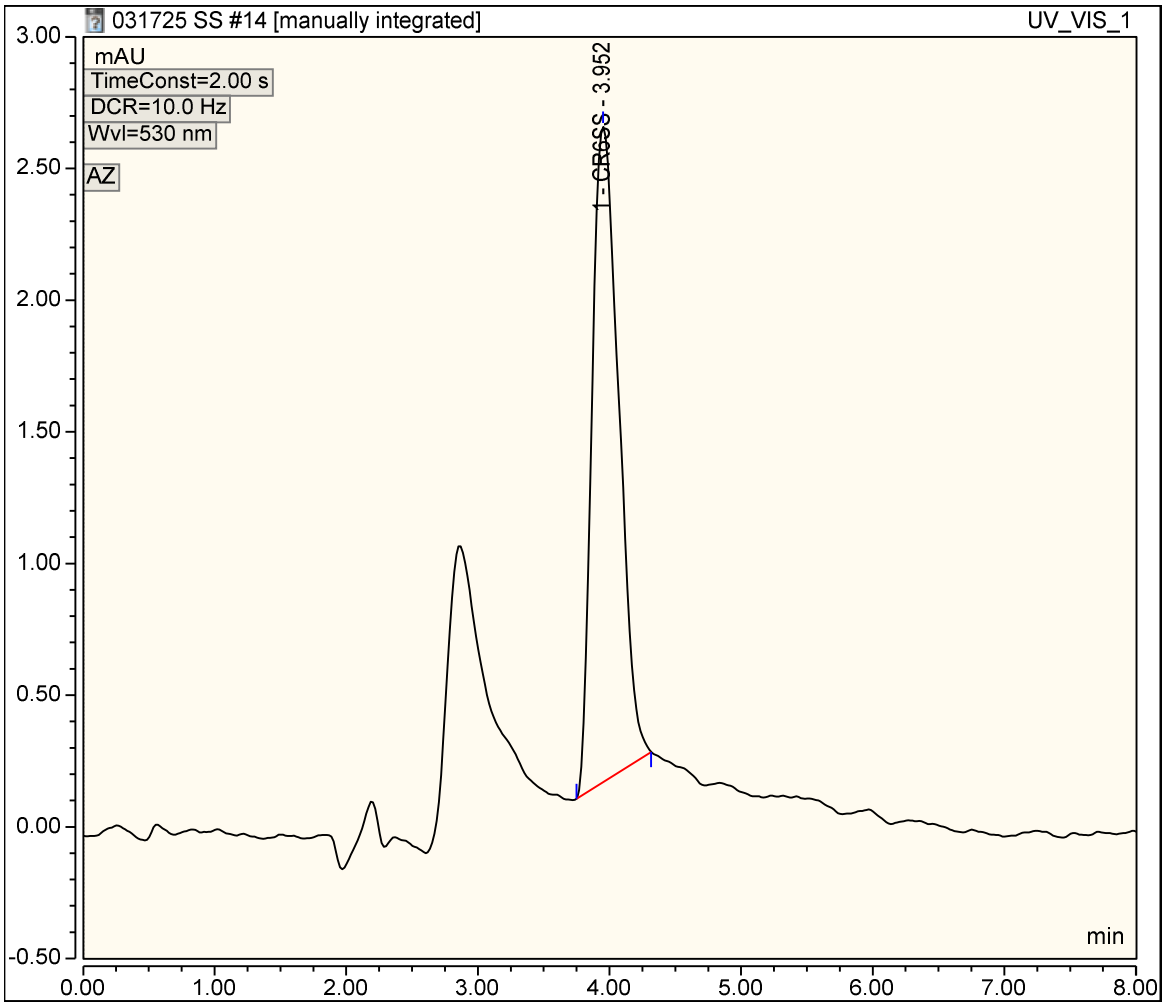
Sample Name:	**L1834873-04 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 00:59**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



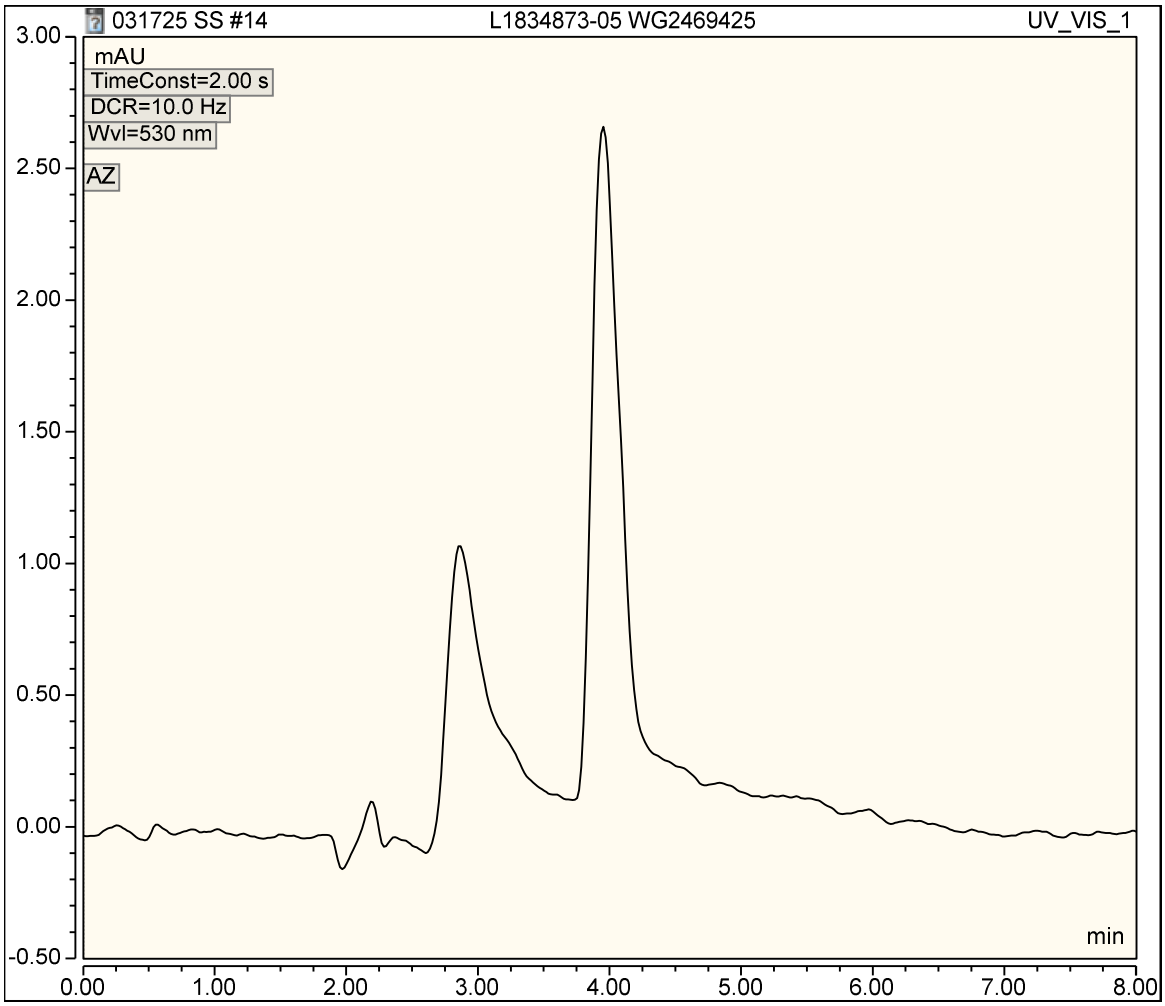
Sample Name:	**L1834873-05 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 01:09**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.95	CR6SS	BMB*	0.588	2.489	0.0032
		TOTAL:		0.59	2.49	0.00



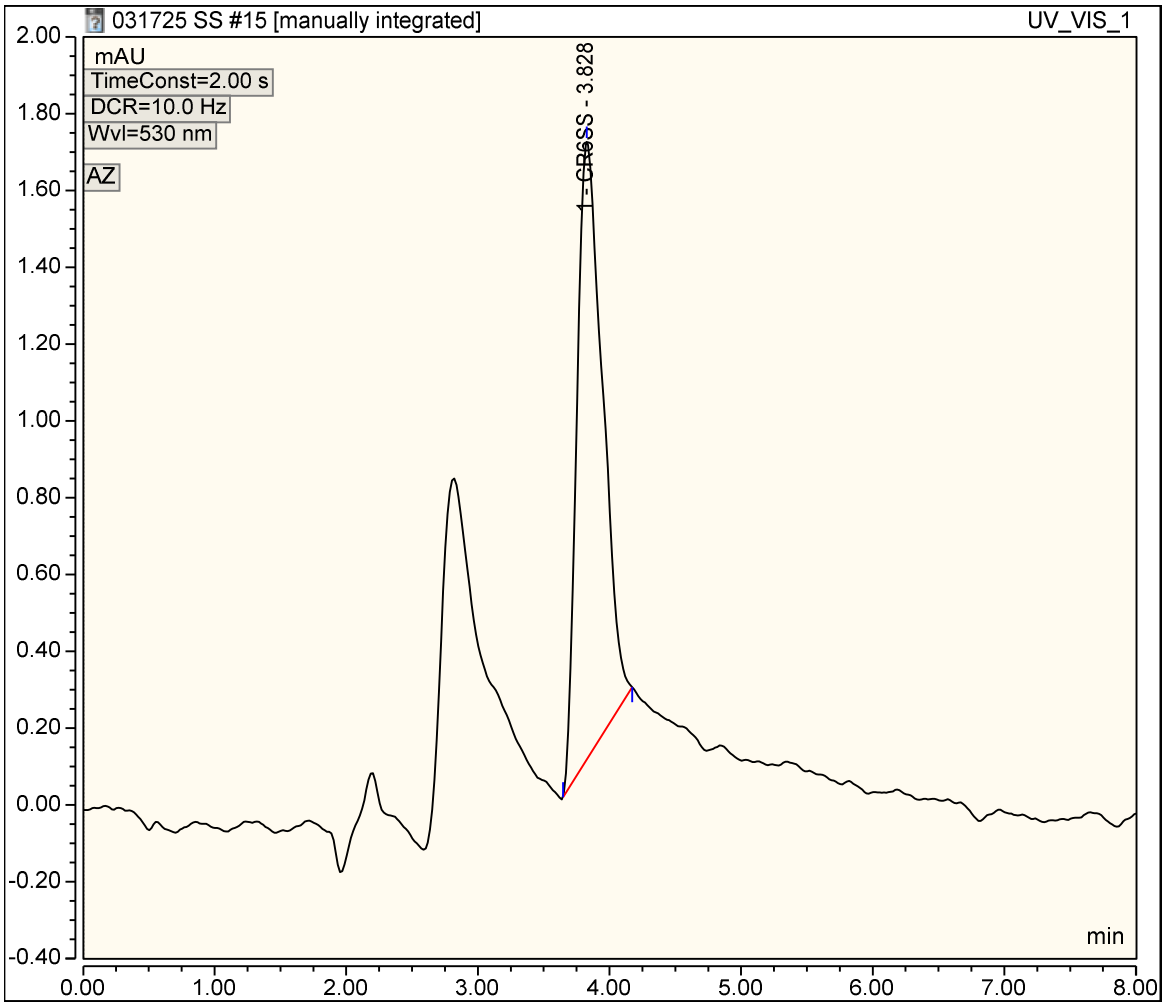
Sample Name:	**L1834873-05 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 01:09**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



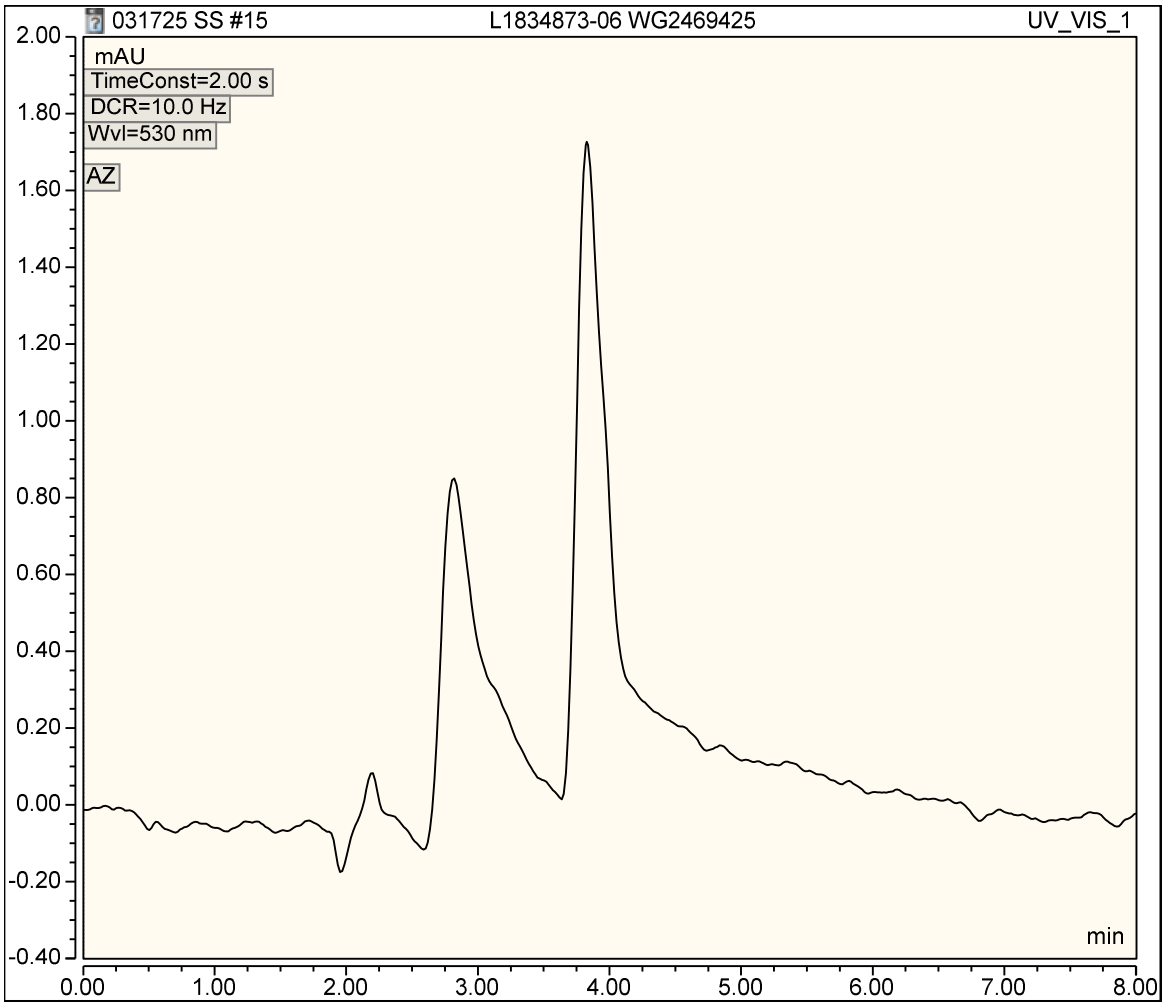
Sample Name:	**L1834873-06 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 01:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	CR6SS	BMB*	0.365	1.608	0.0014
		TOTAL:		0.36	1.61	0.00



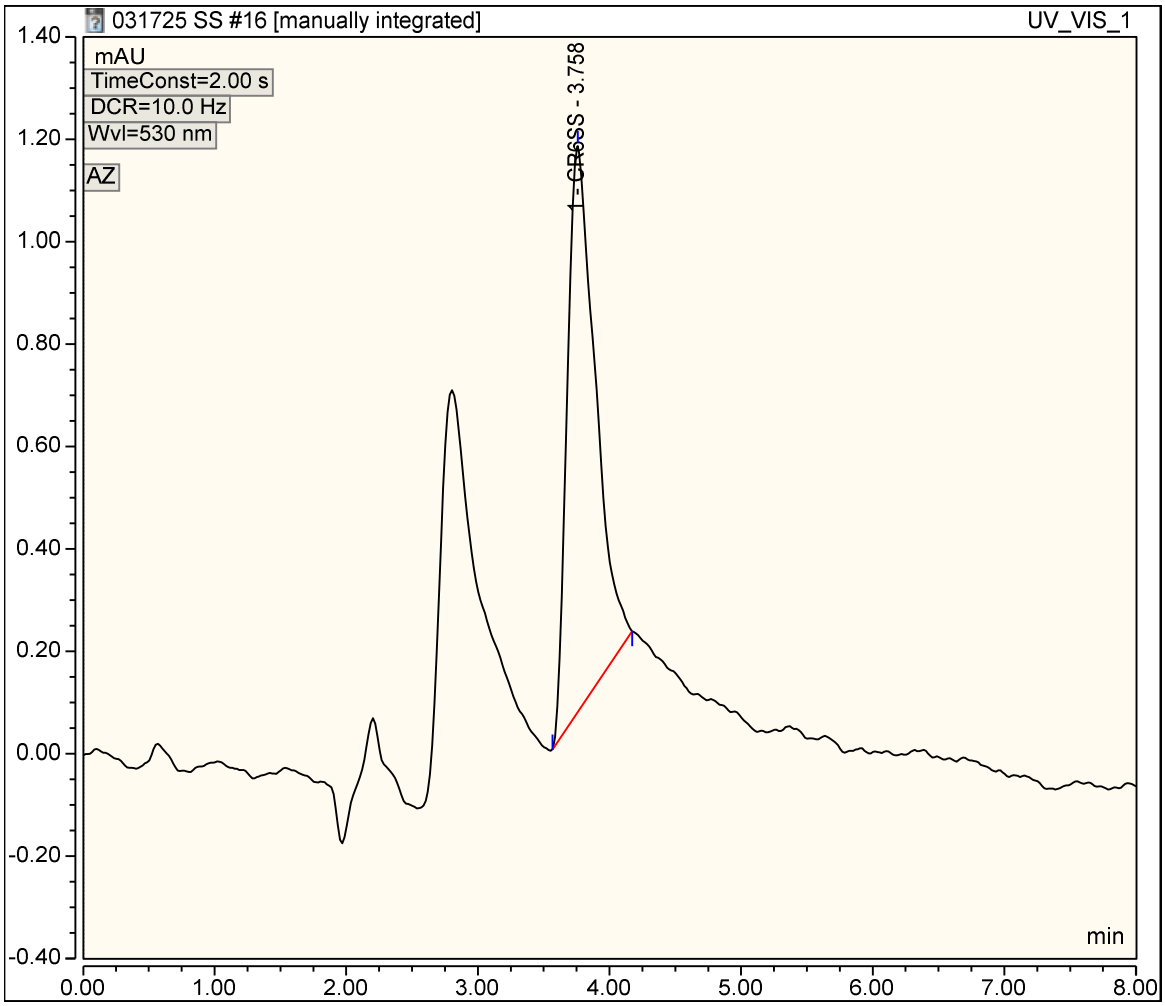
Sample Name:	**L1834873-06 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 01:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



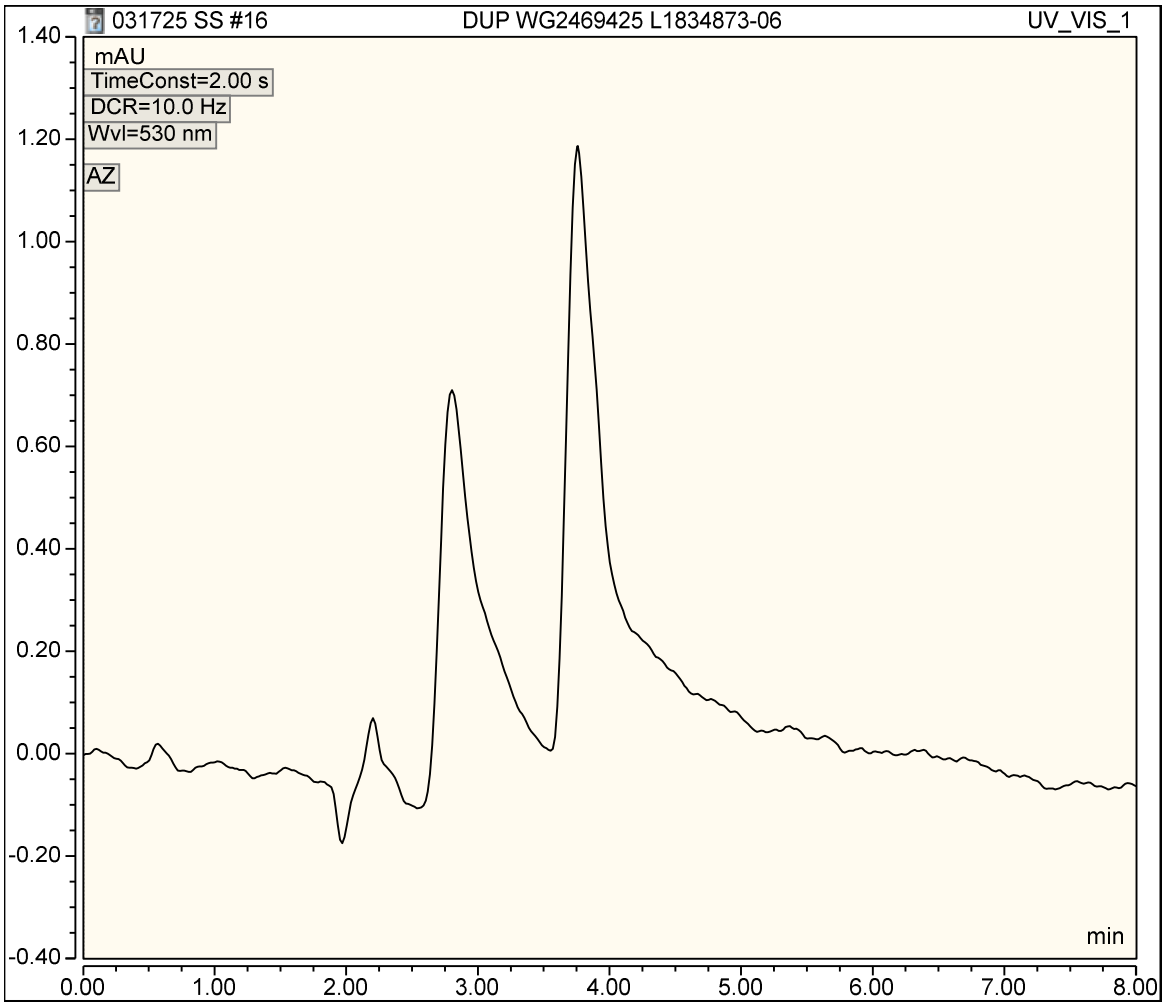
Sample Name:	**DUP WG2469425 L1834873-06**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 01:28**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.76	CR6SS	BMB*	0.275	1.106	0.0007
		TOTAL:		0.27	1.11	0.00



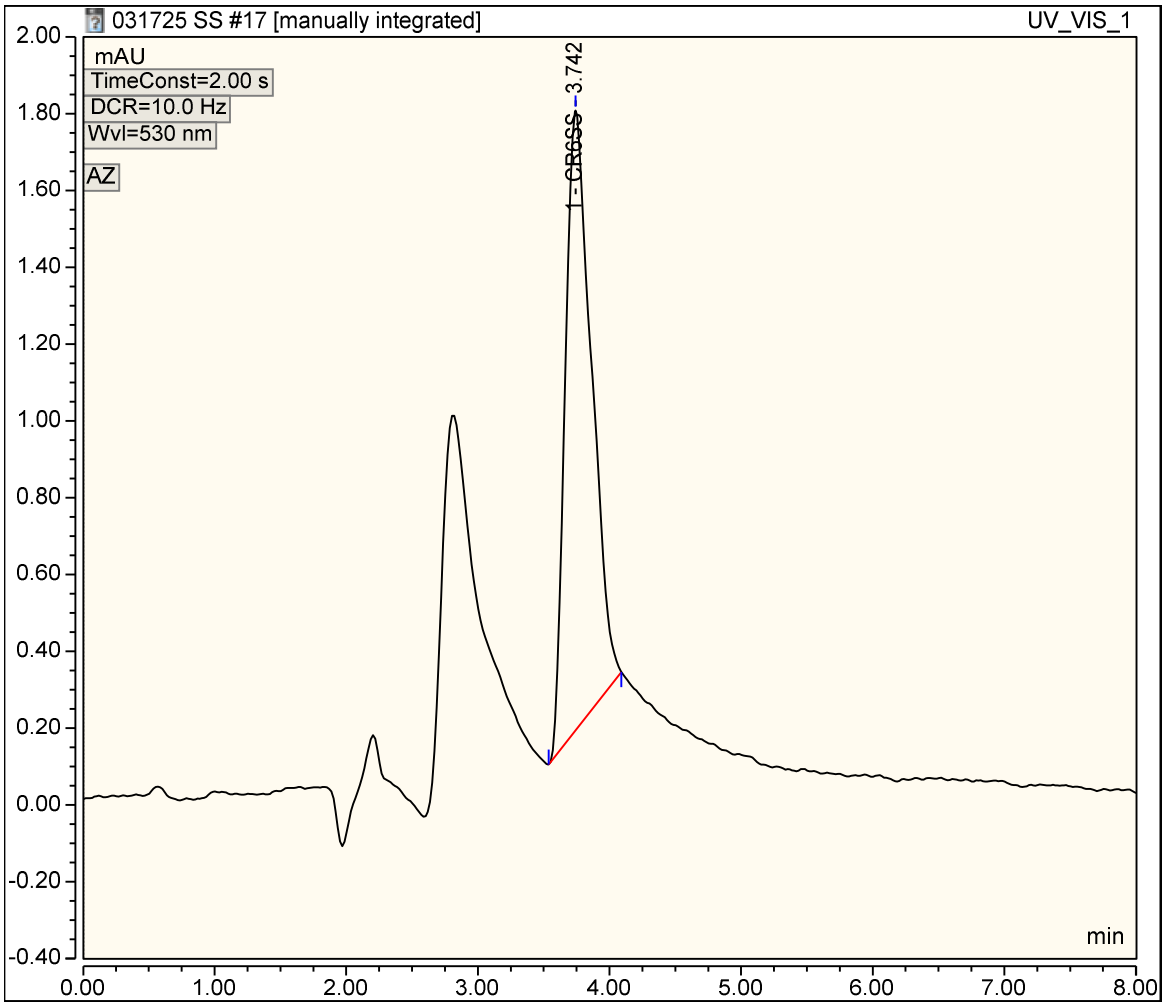
Sample Name:	**DUP WG2469425 L1834873-06**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 01:28**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**L1834879-01 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 01:38**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.74	CR6SS	BMB*	0.375	1.614	0.0015
		TOTAL:		0.37	1.61	0.00

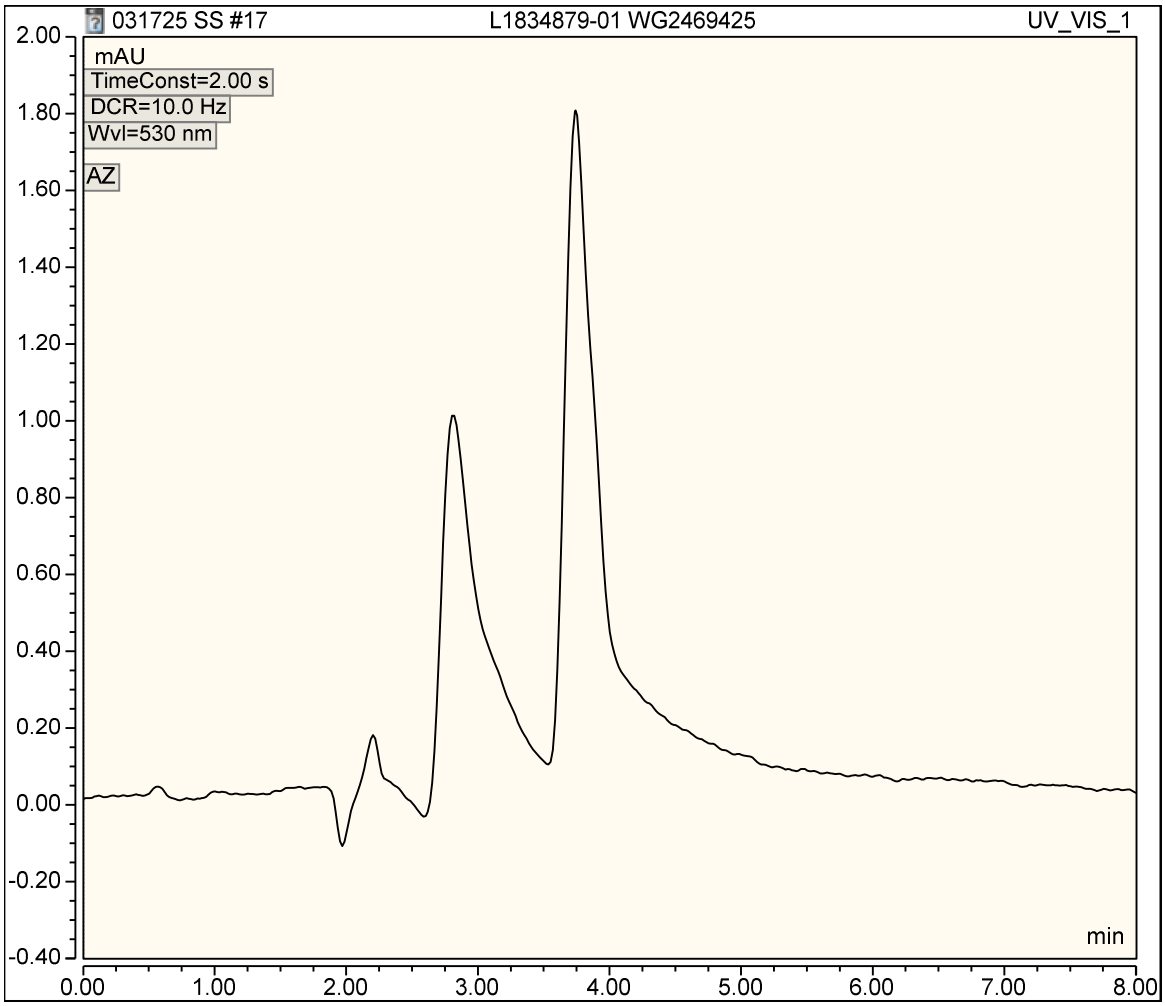


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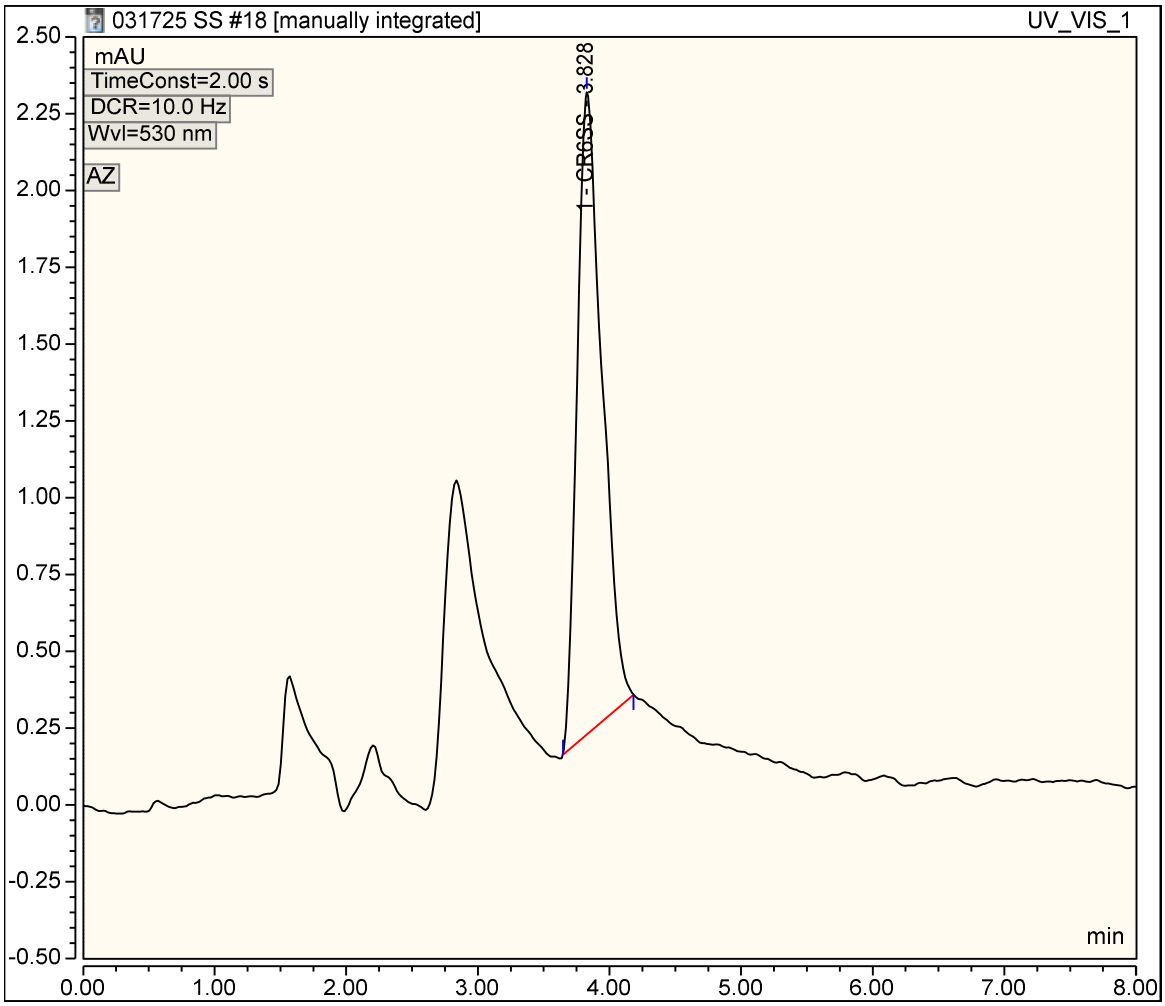
Sample Name:	**L1834879-01 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 01:38**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



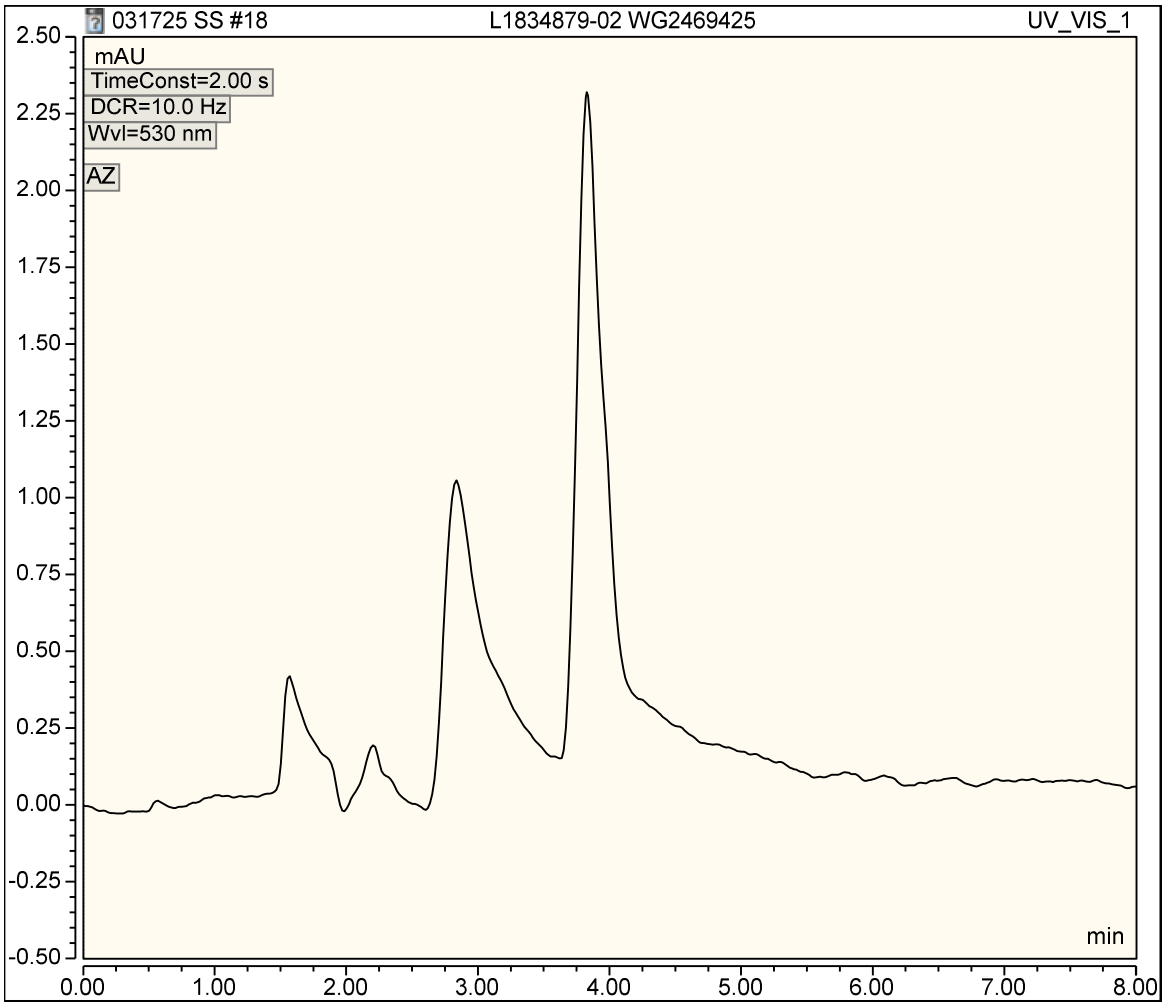
Sample Name:	**L1834879-02 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 01:47**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	CR6SS	BMB*	0.460	2.090	0.0022
		TOTAL:		0.46	2.09	0.00



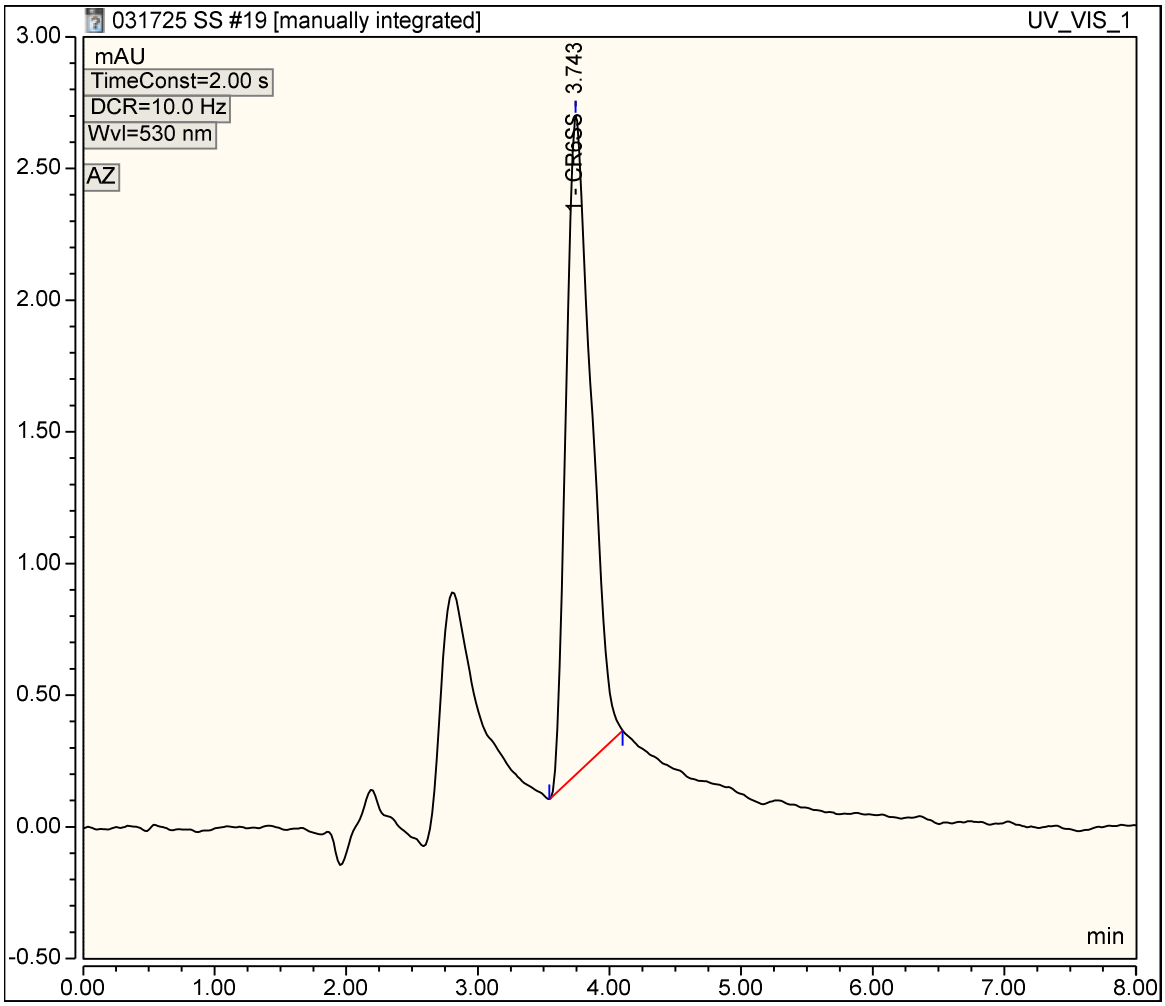
Sample Name:	**L1834879-02 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 01:47**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



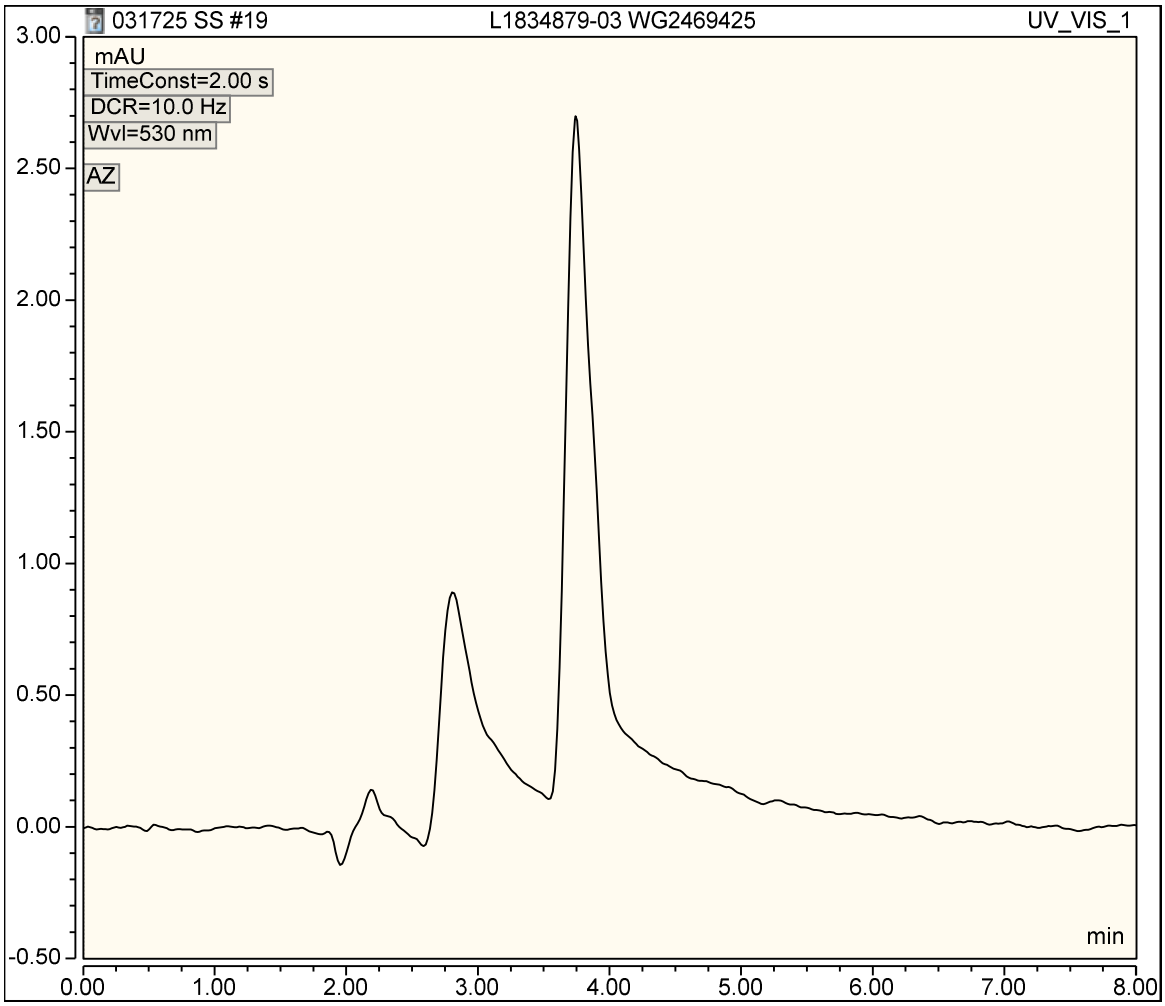
Sample Name:	**L1834879-03 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 01:57**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.74	CR6SS	BMB*	0.554	2.500	0.0029
		TOTAL:		0.55	2.50	0.00



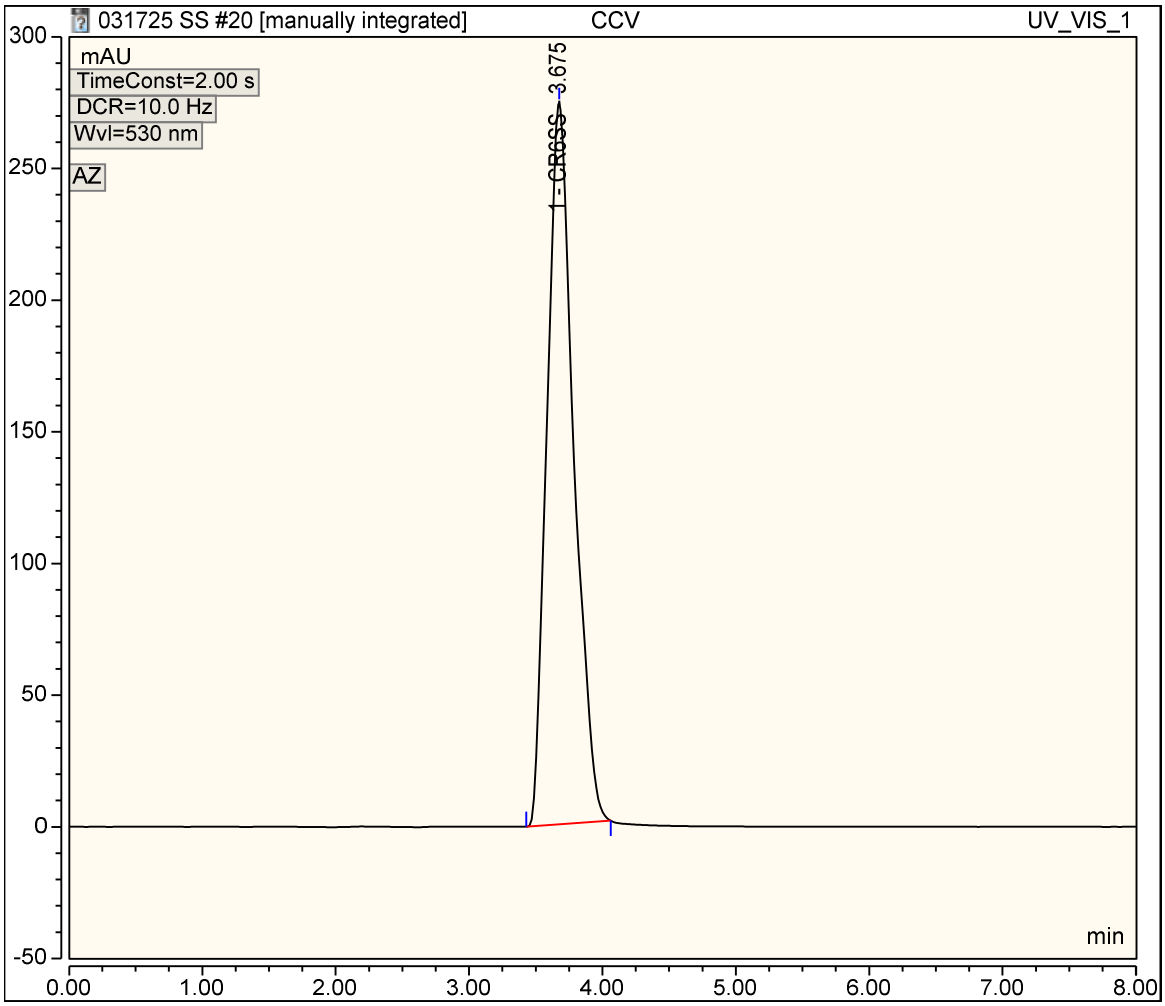
Sample Name:	**L1834879-03 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 01:57**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 02:07**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.67	CR6SS	BMB*	63.908	273.941	0.5126
		TOTAL:		63.91	273.94	0.51

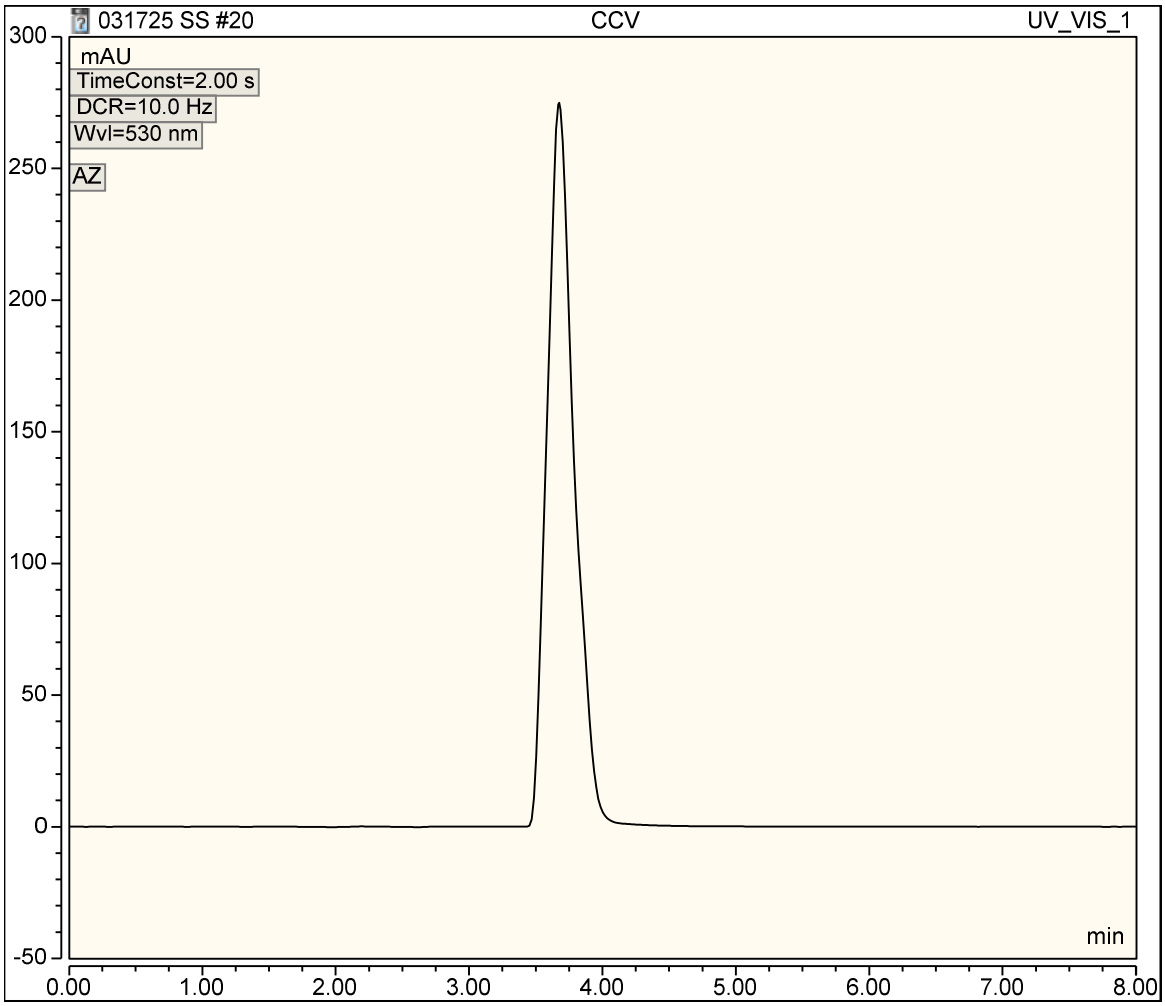


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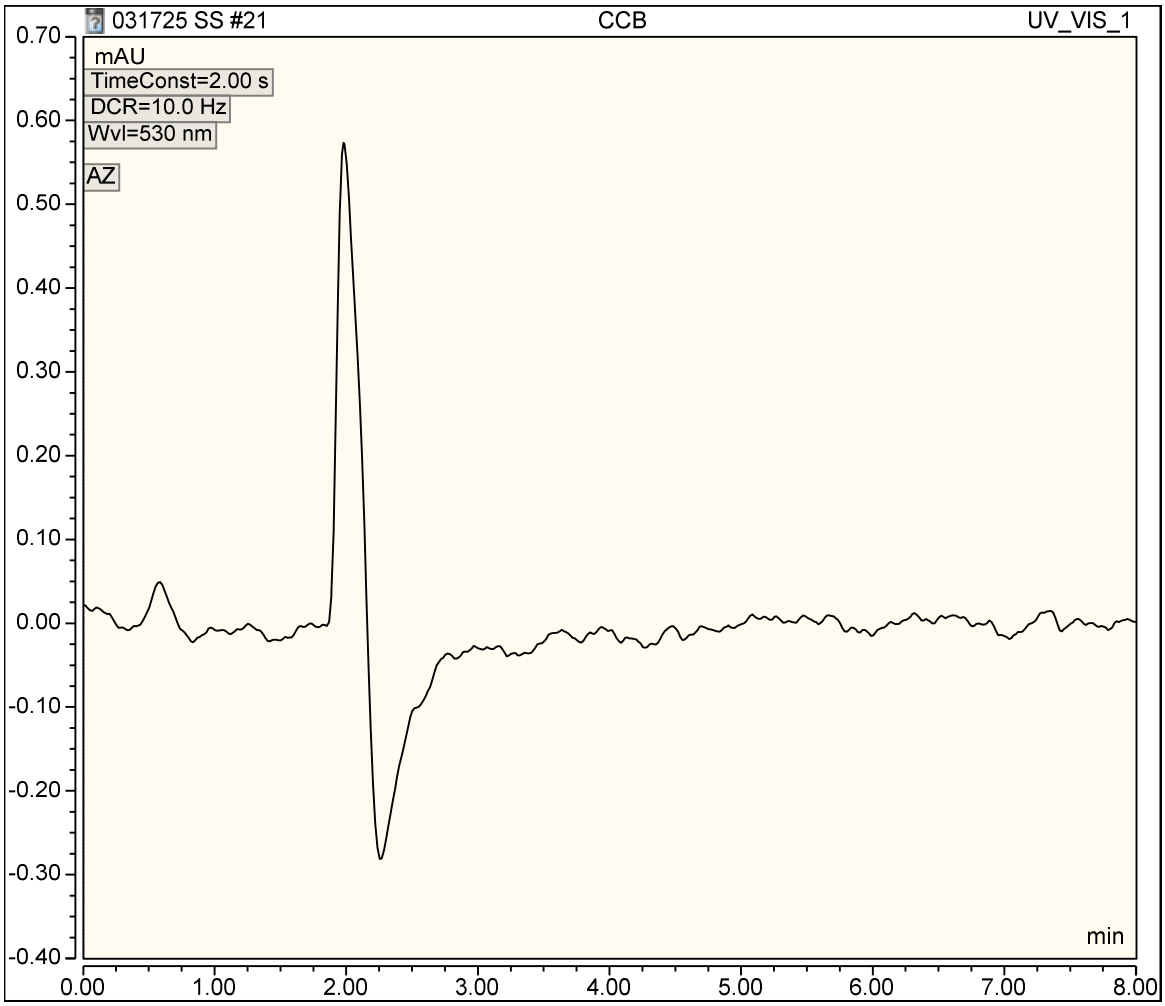
Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 02:07**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



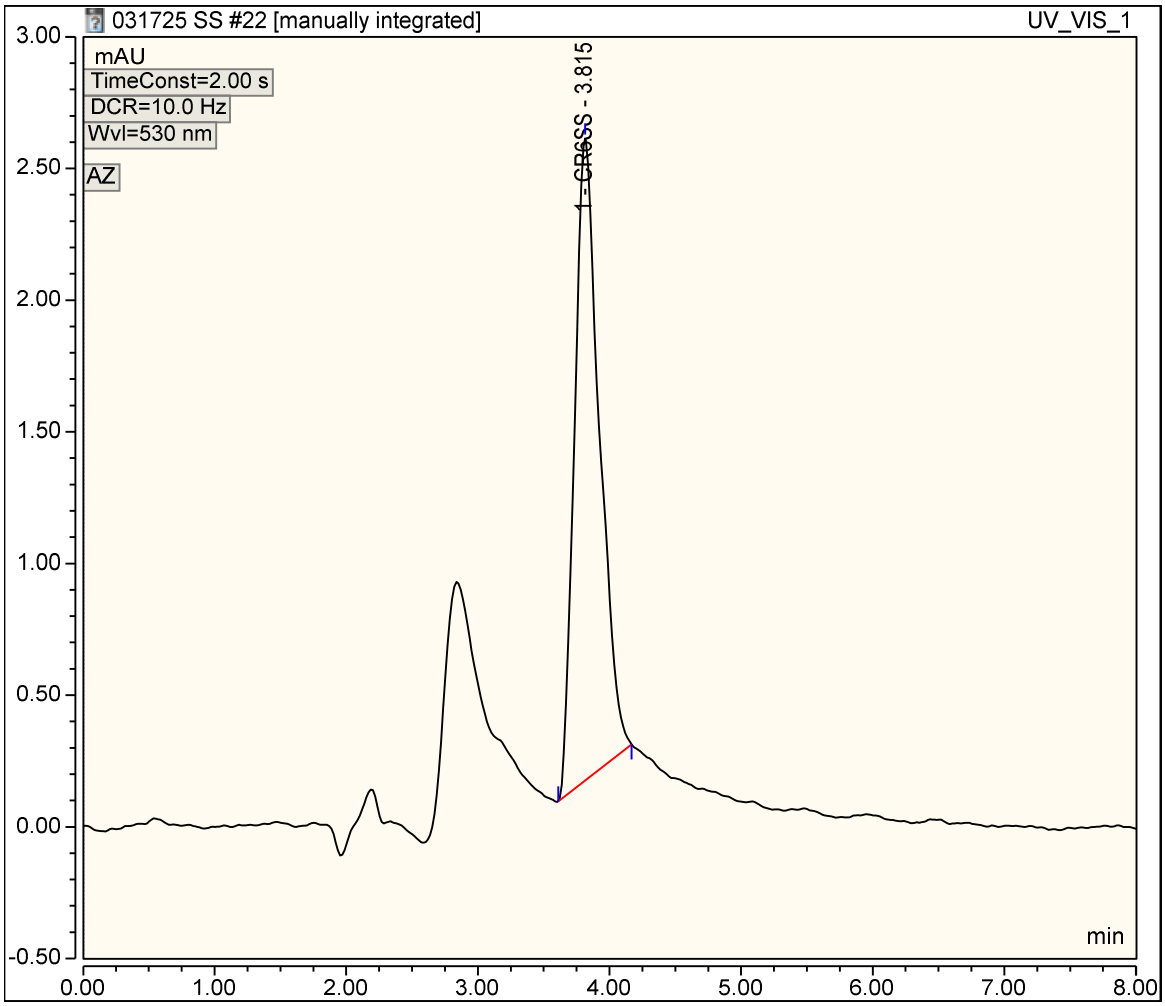
Sample Name:	**CCB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 02:16**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



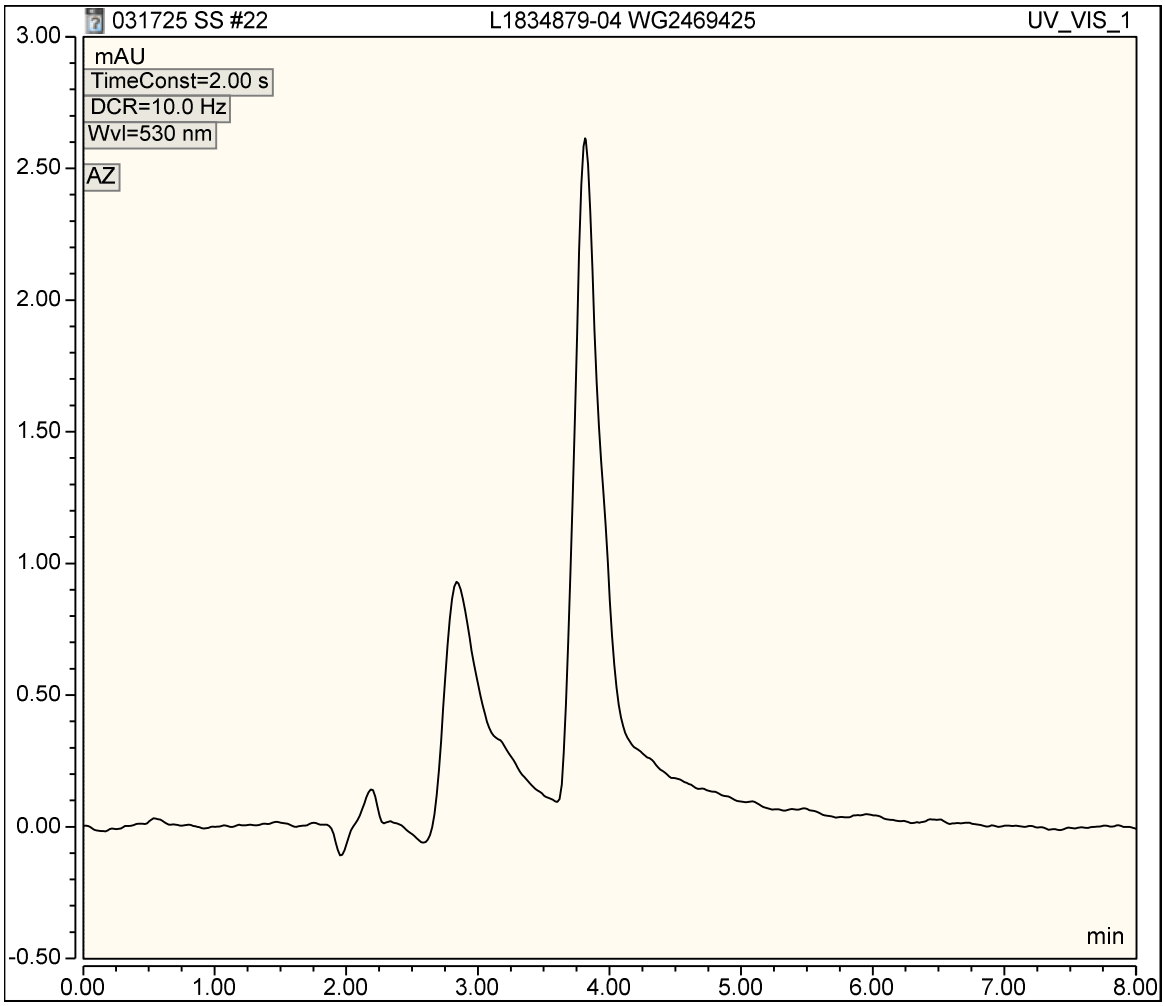
Sample Name:	**L1834879-04 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 02:26**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.81	CR6SS	BMB*	0.539	2.439	0.0028
		TOTAL:		0.54	2.44	0.00



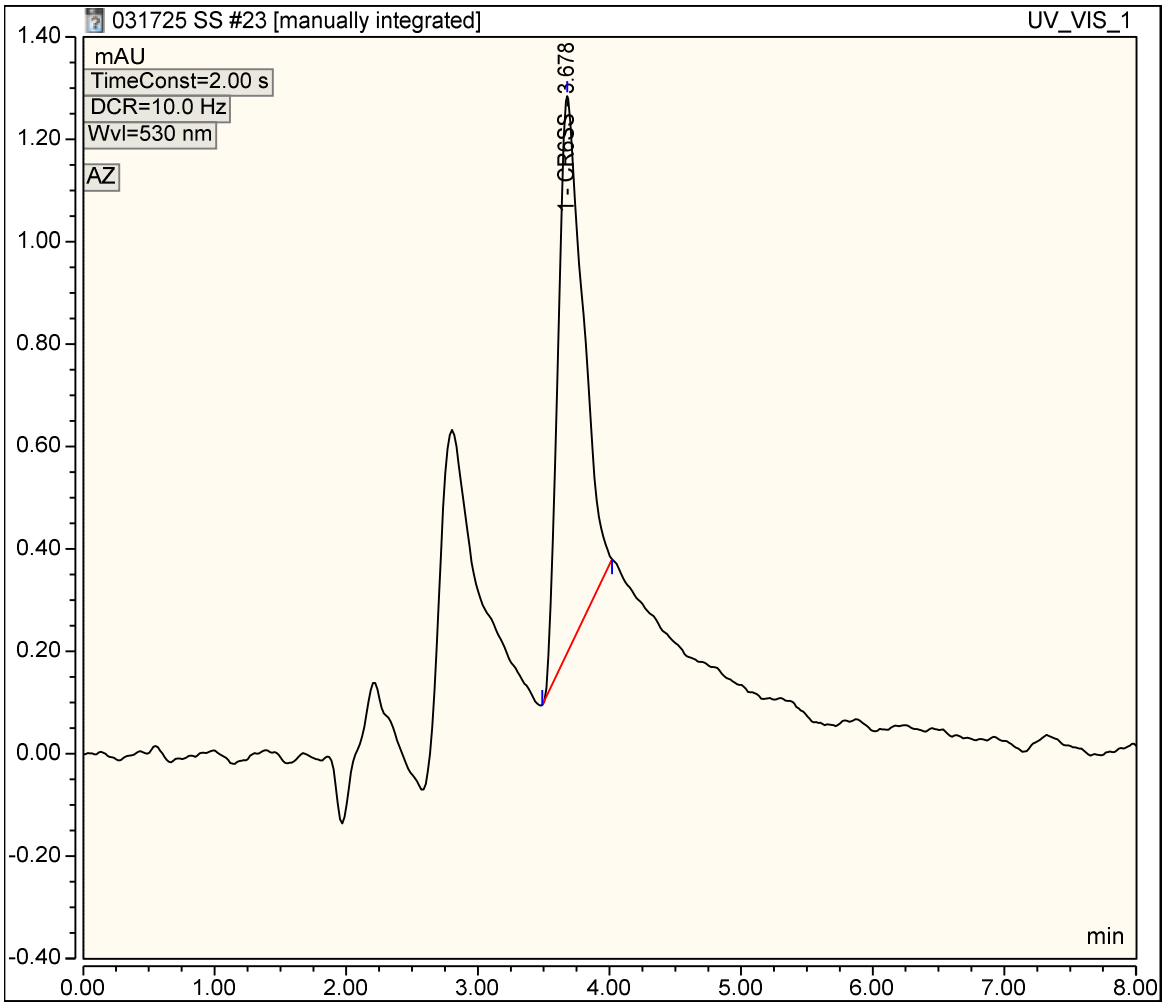
Sample Name:	**L1834879-04 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 02:26**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



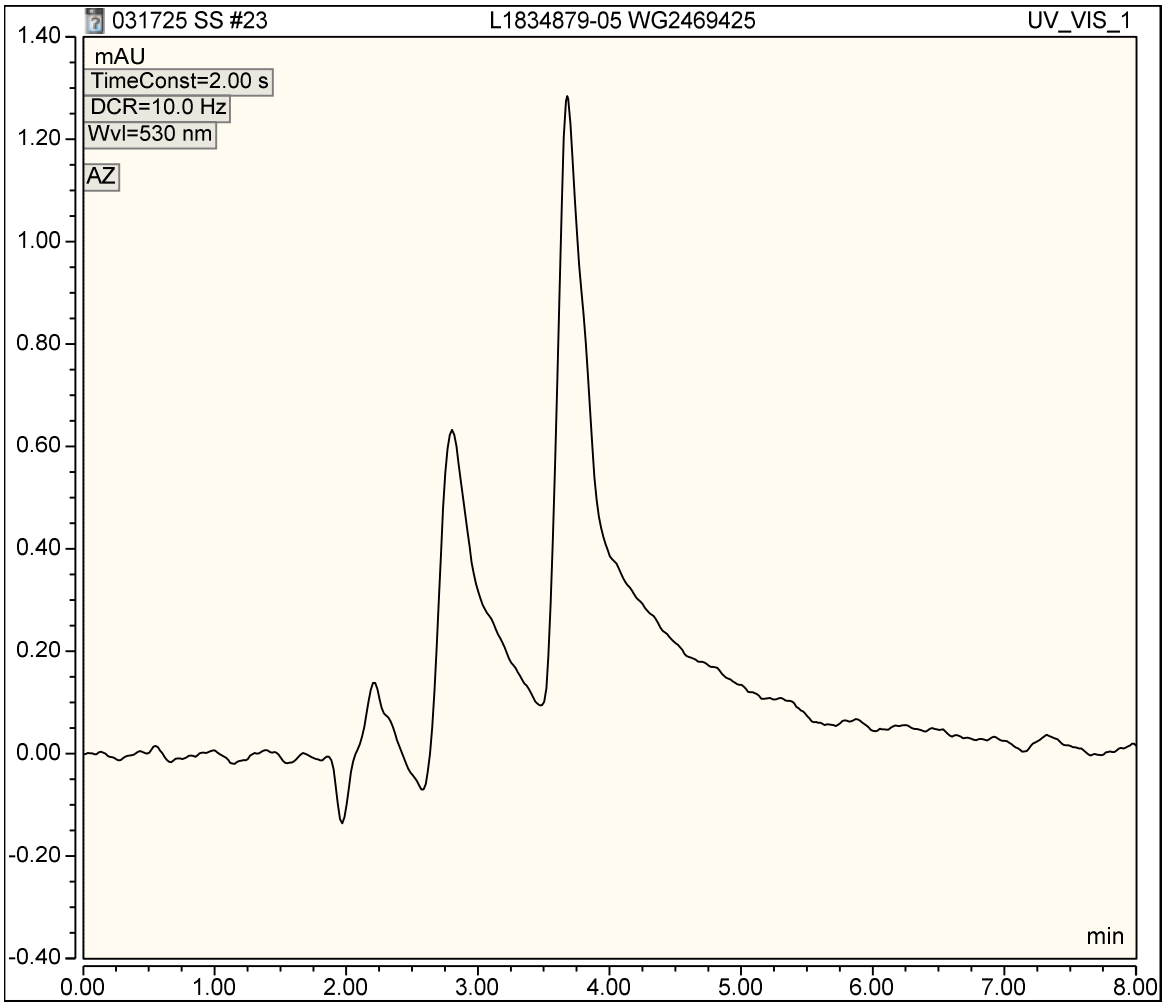
Sample Name:	**L1834879-05 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 02:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.68	CR6SS	BMB*	0.239	1.088	0.0004
		TOTAL:		0.24	1.09	0.00



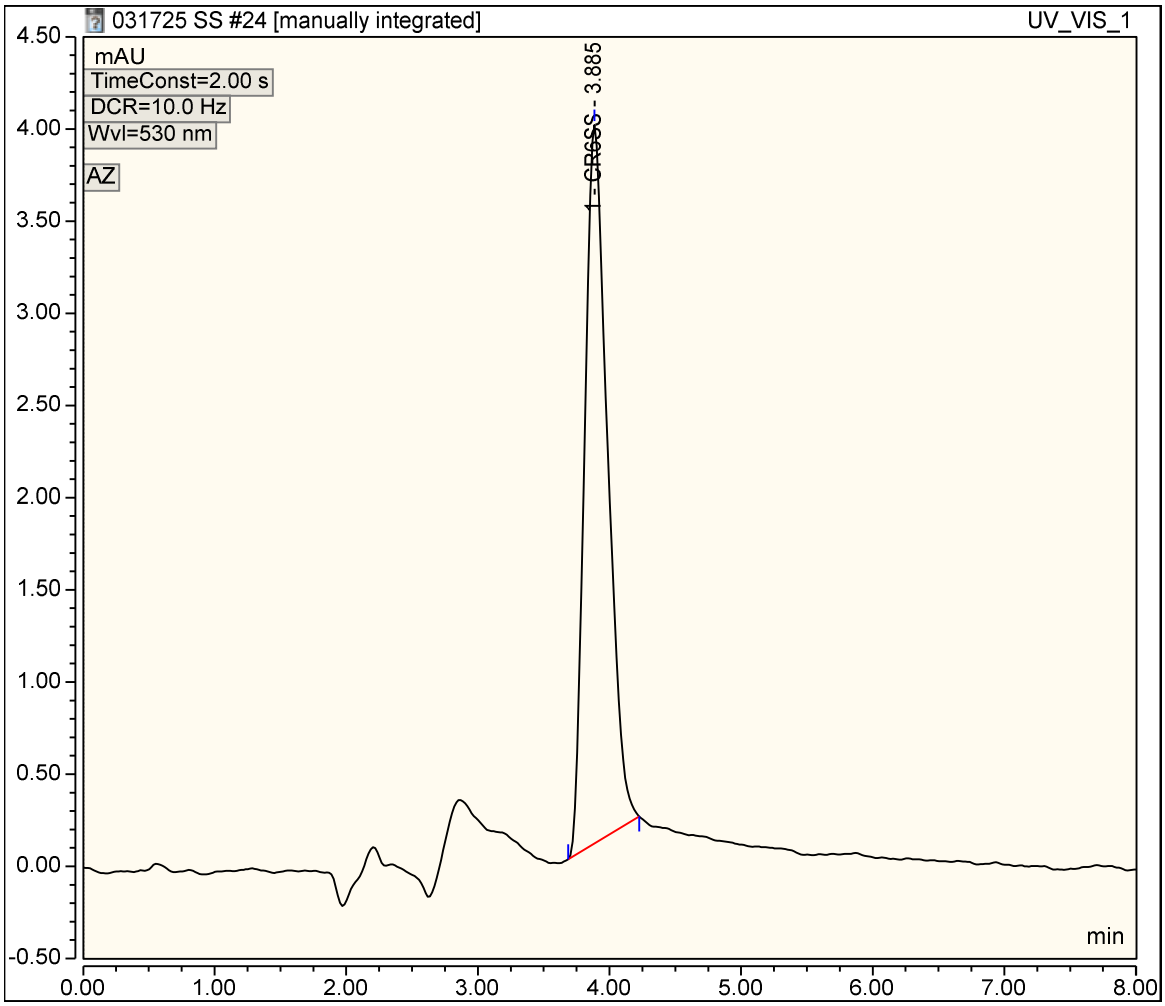
Sample Name:	**L1834879-05 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 02:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



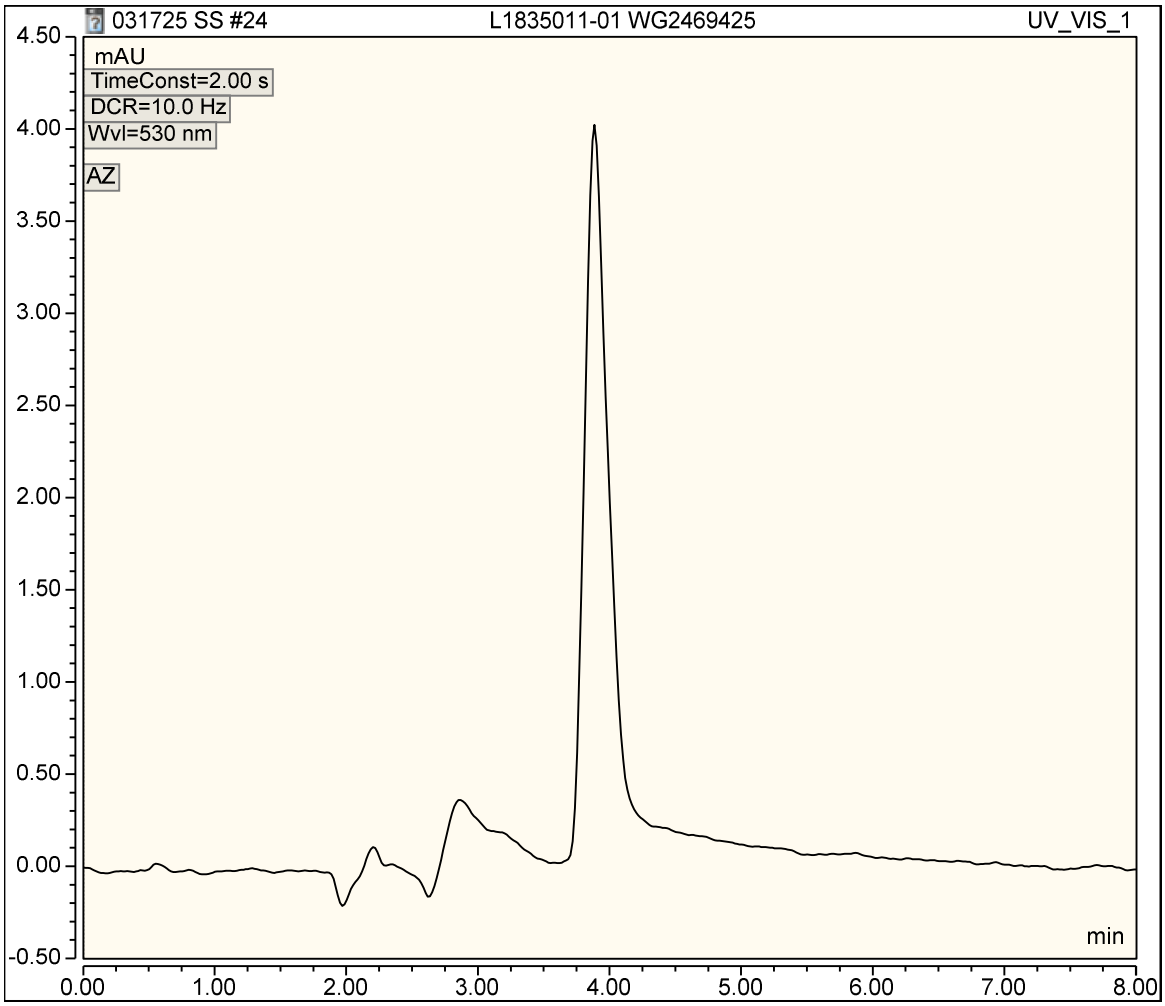
Sample Name:	**L1835011-01 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 02:45**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.88	CR6SS	BMB*	0.790	3.899	0.0048
		TOTAL:		0.79	3.90	0.00



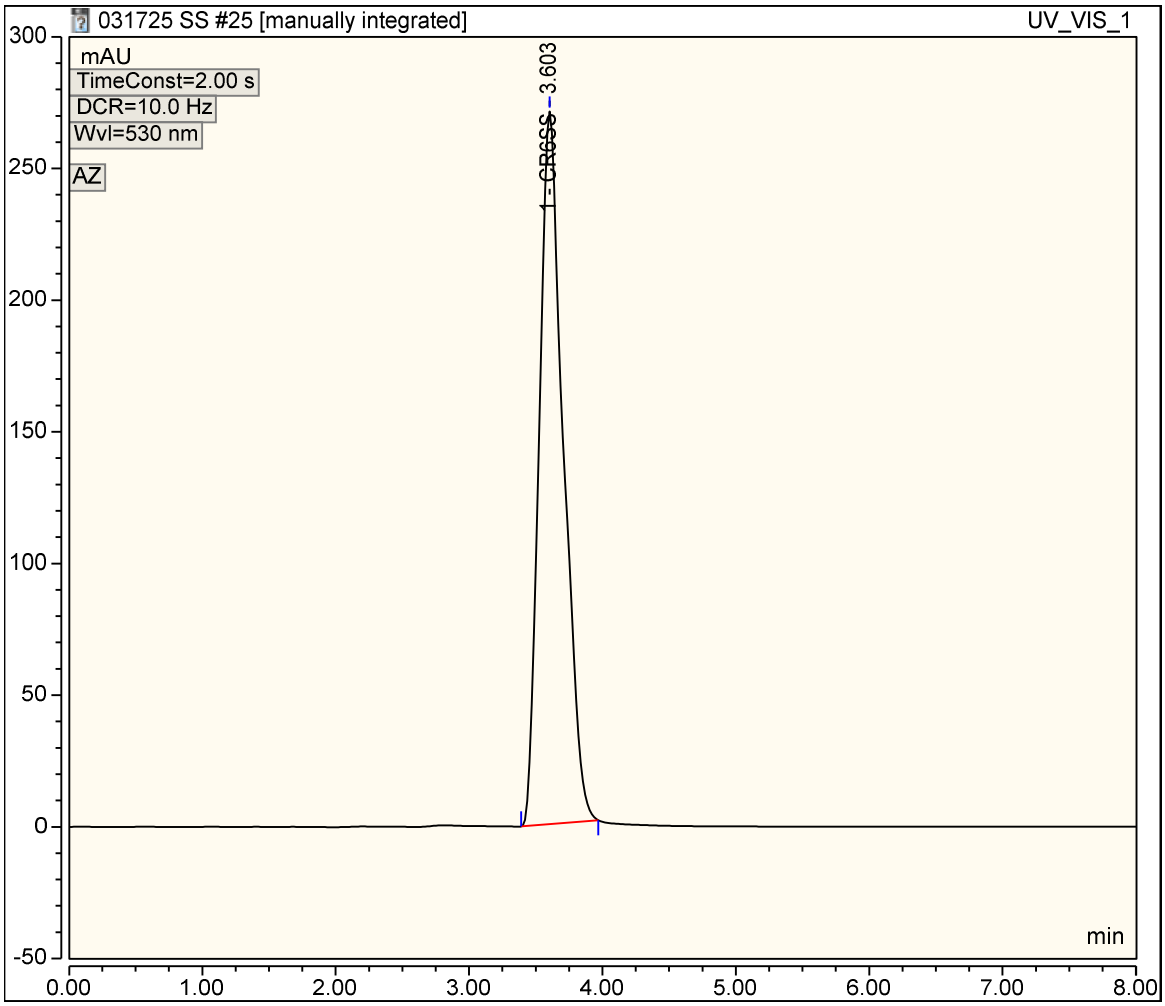
Sample Name:	**L1835011-01 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 02:45**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



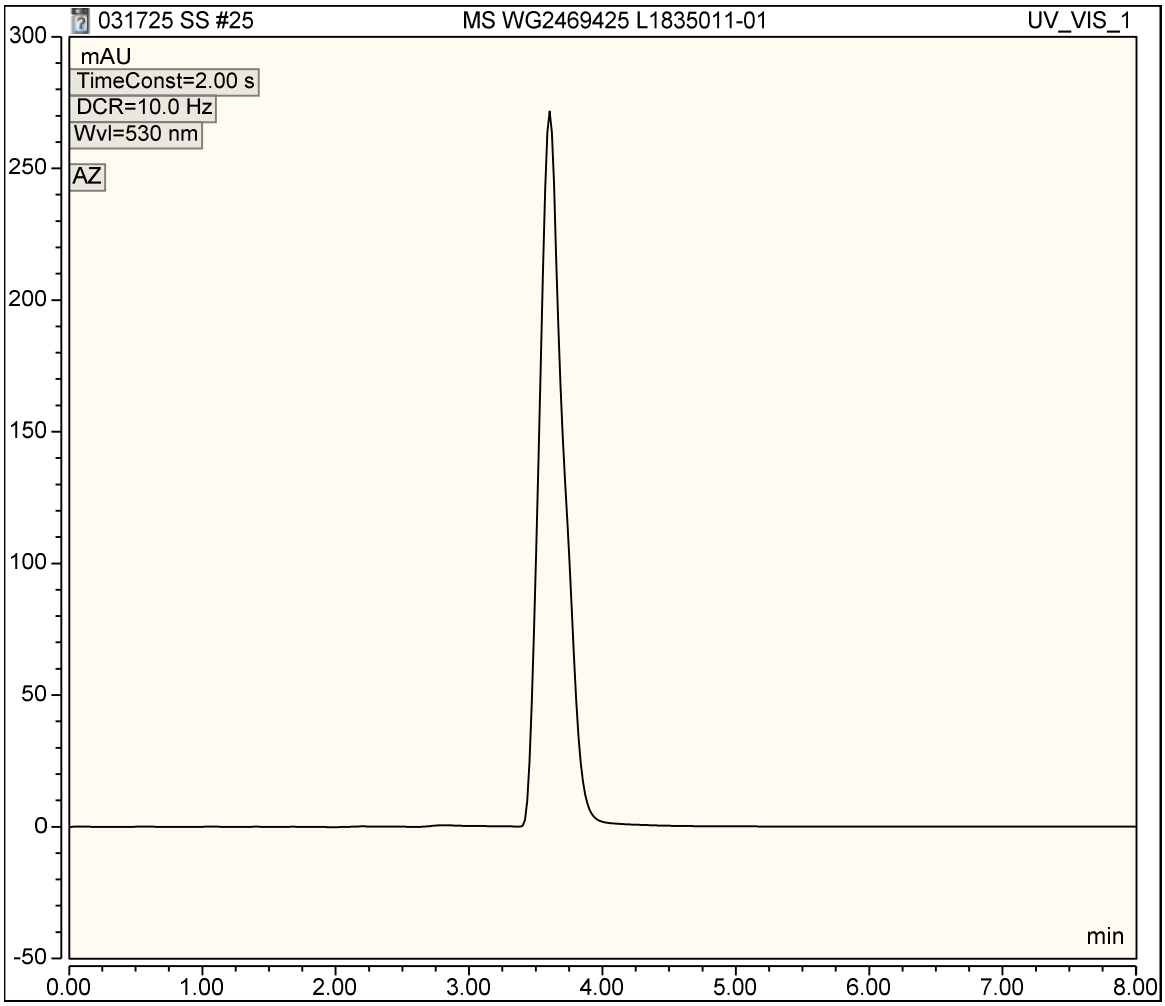
Sample Name:	**MS WG2469425 L1835011-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 02:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.60	CR6SS	BMB*	56.808	270.656	0.4555
		TOTAL:		56.81	270.66	0.46



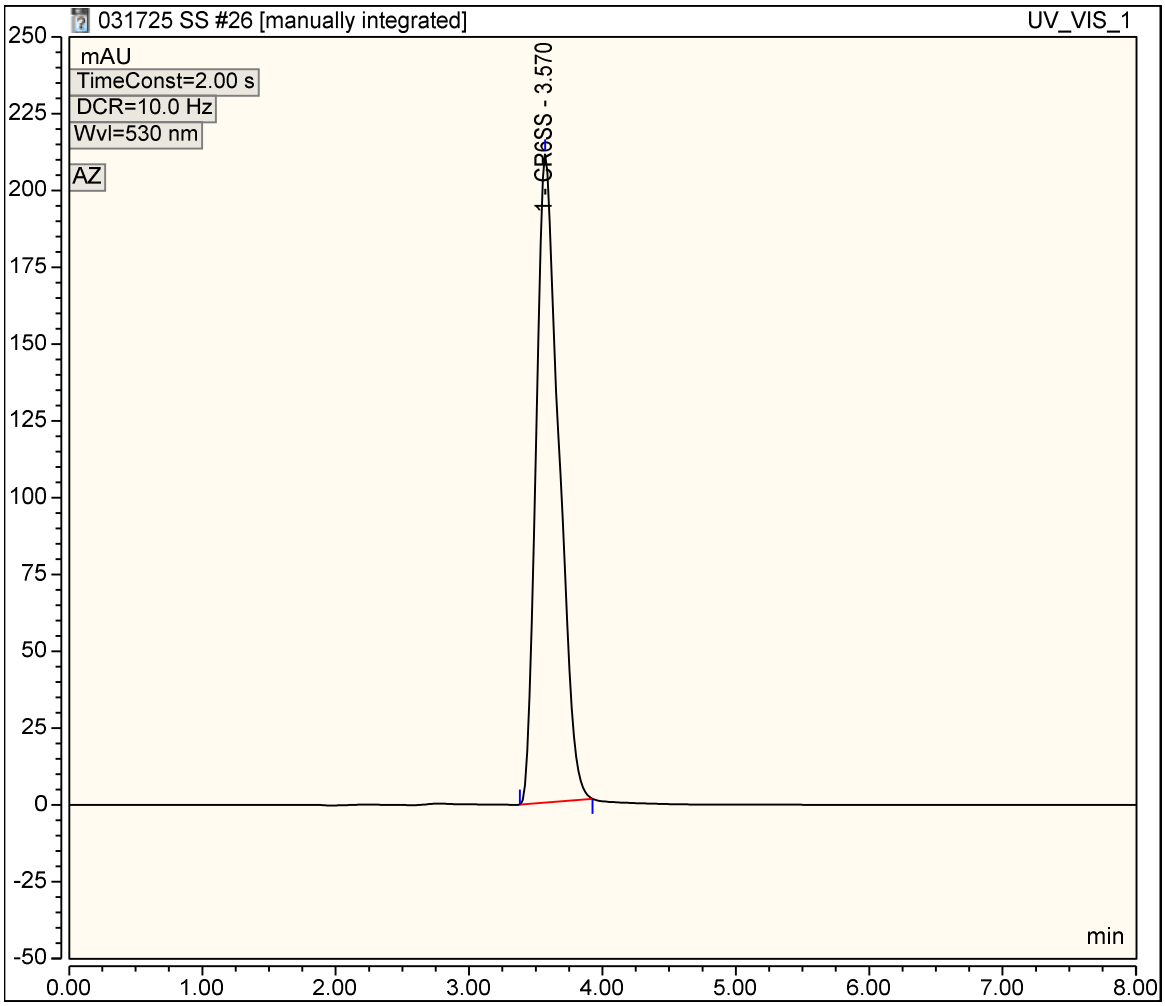
Sample Name:	**MS WG2469425 L1835011-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 02:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



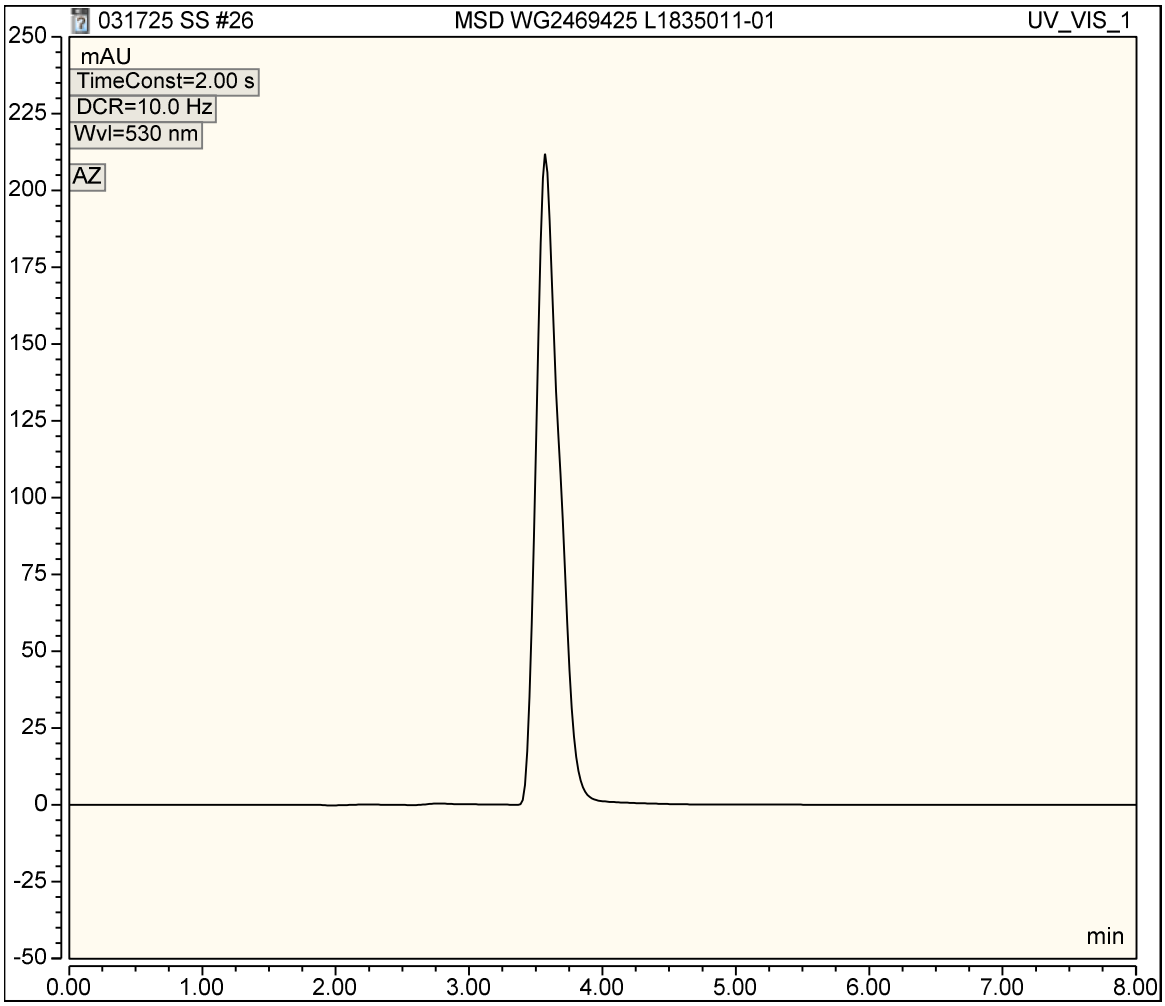
Sample Name:	**MSD WG2469425 L1835011-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 03:05**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.57	CR6SS	BMB*	41.704	211.019	0.3340
		TOTAL:		41.70	211.02	0.33



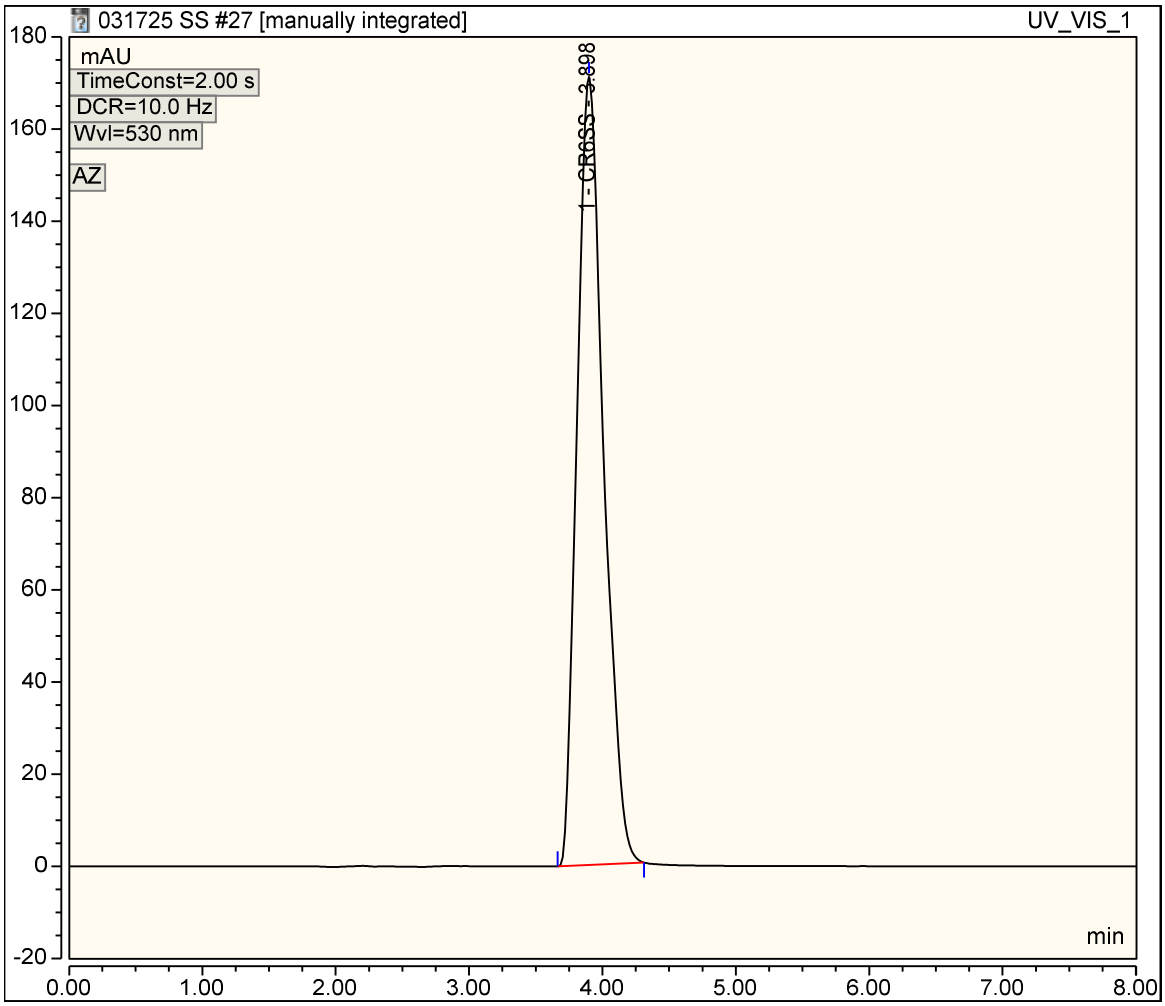
Sample Name:	**MSD WG2469425 L1835011-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 03:05**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



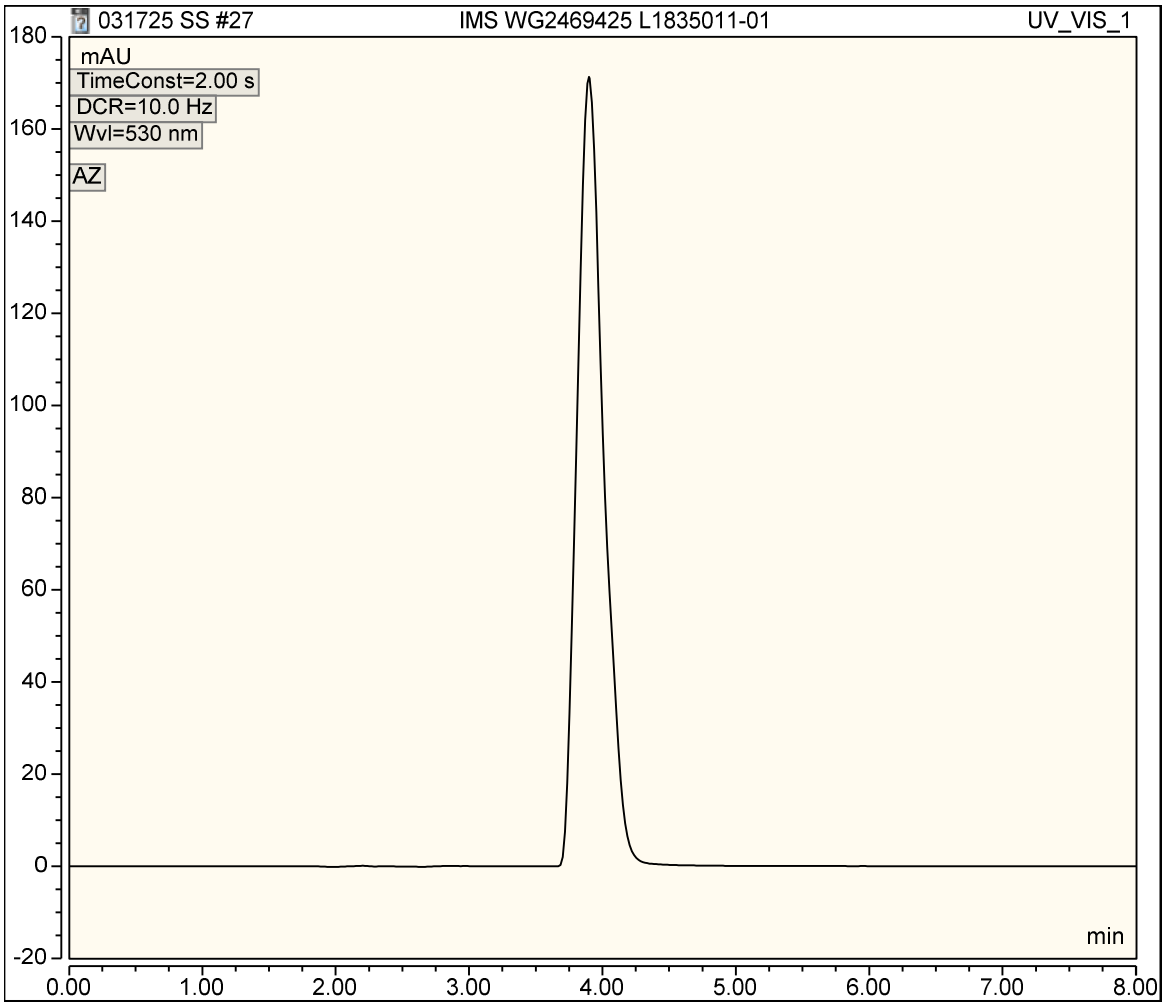
Sample Name:	**IMS WG2469425 L1835011-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**50.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 03:14**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.90	CR6SS	BMB*	39.396	171.037	15.7712
		TOTAL:		39.40	171.04	15.77



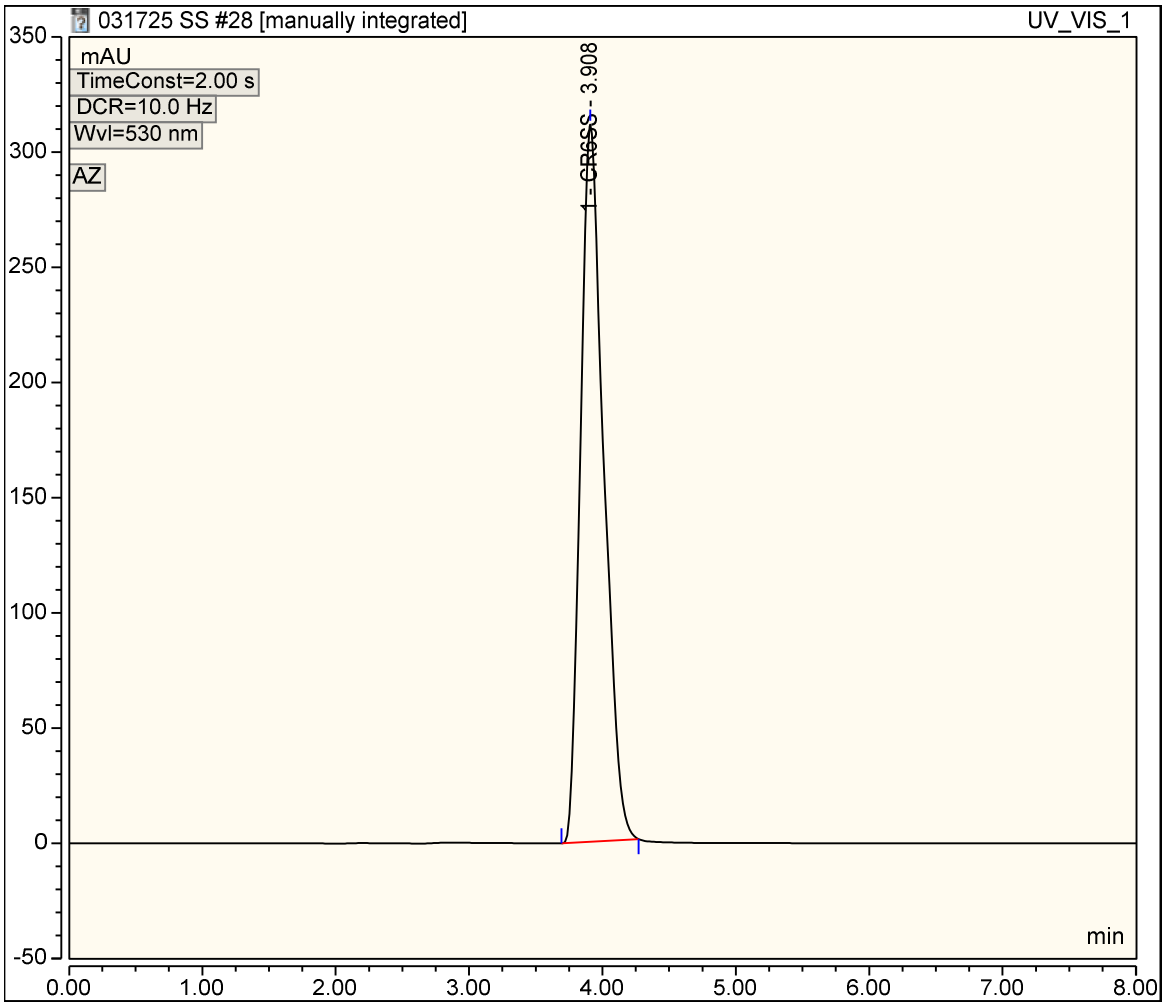
Sample Name:	**IMS WG2469425 L1835011-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**50.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 03:14**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**PS WG2469425 L1835011-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 03:24**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.91	CR6SS	BMB*	62.734	311.246	0.5032
		TOTAL:		62.73	311.25	0.50

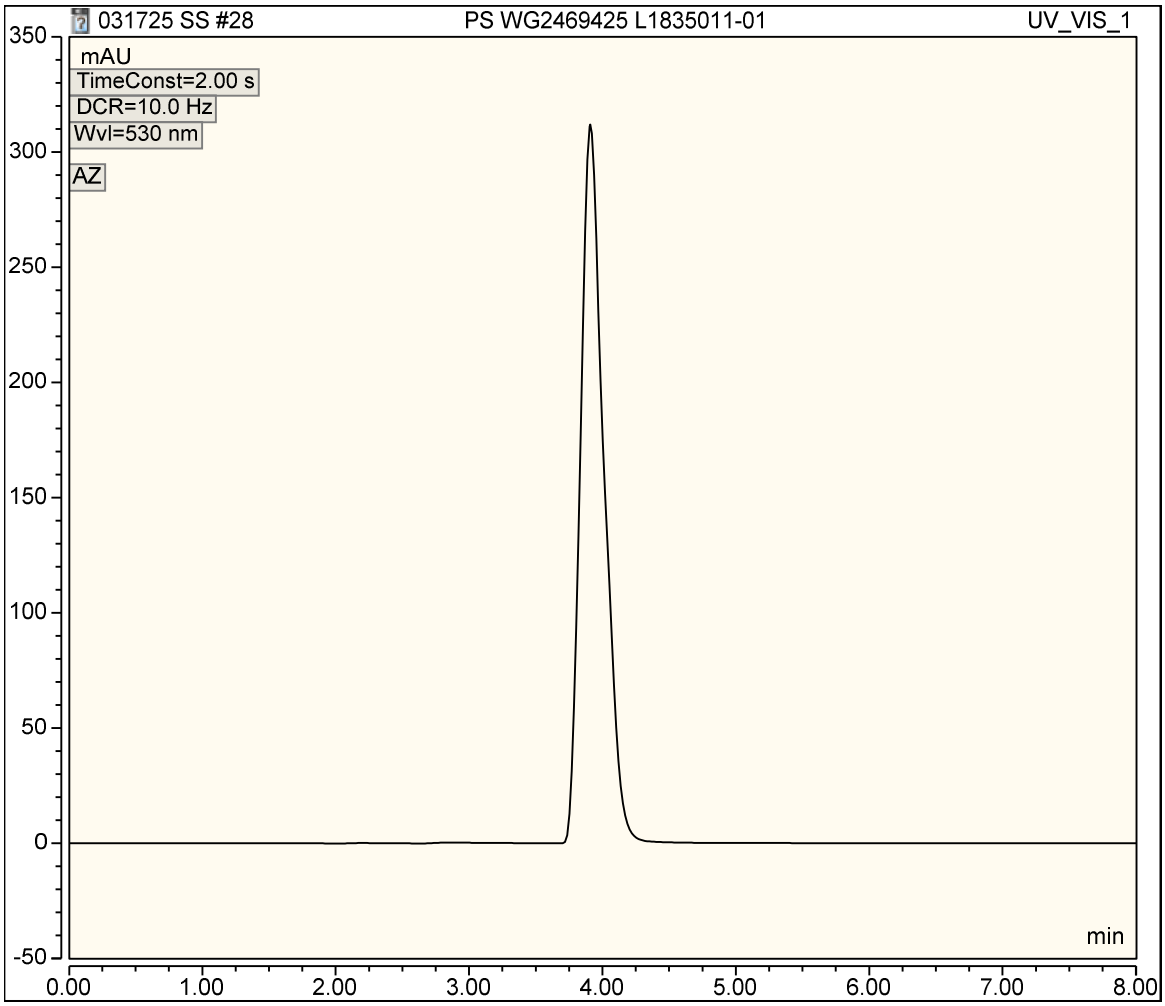


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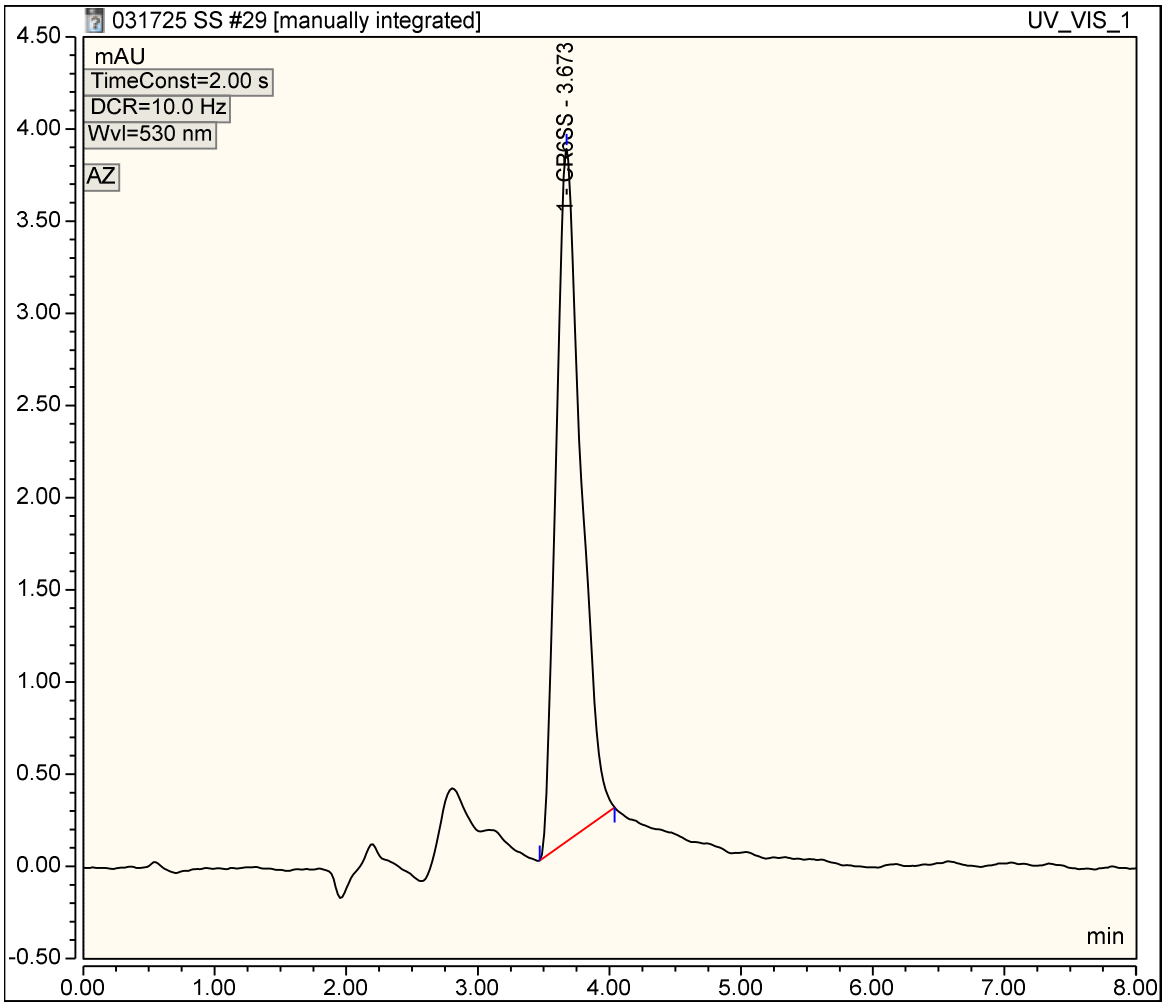
Sample Name:	**PS WG2469425 L1835011-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 03:24**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



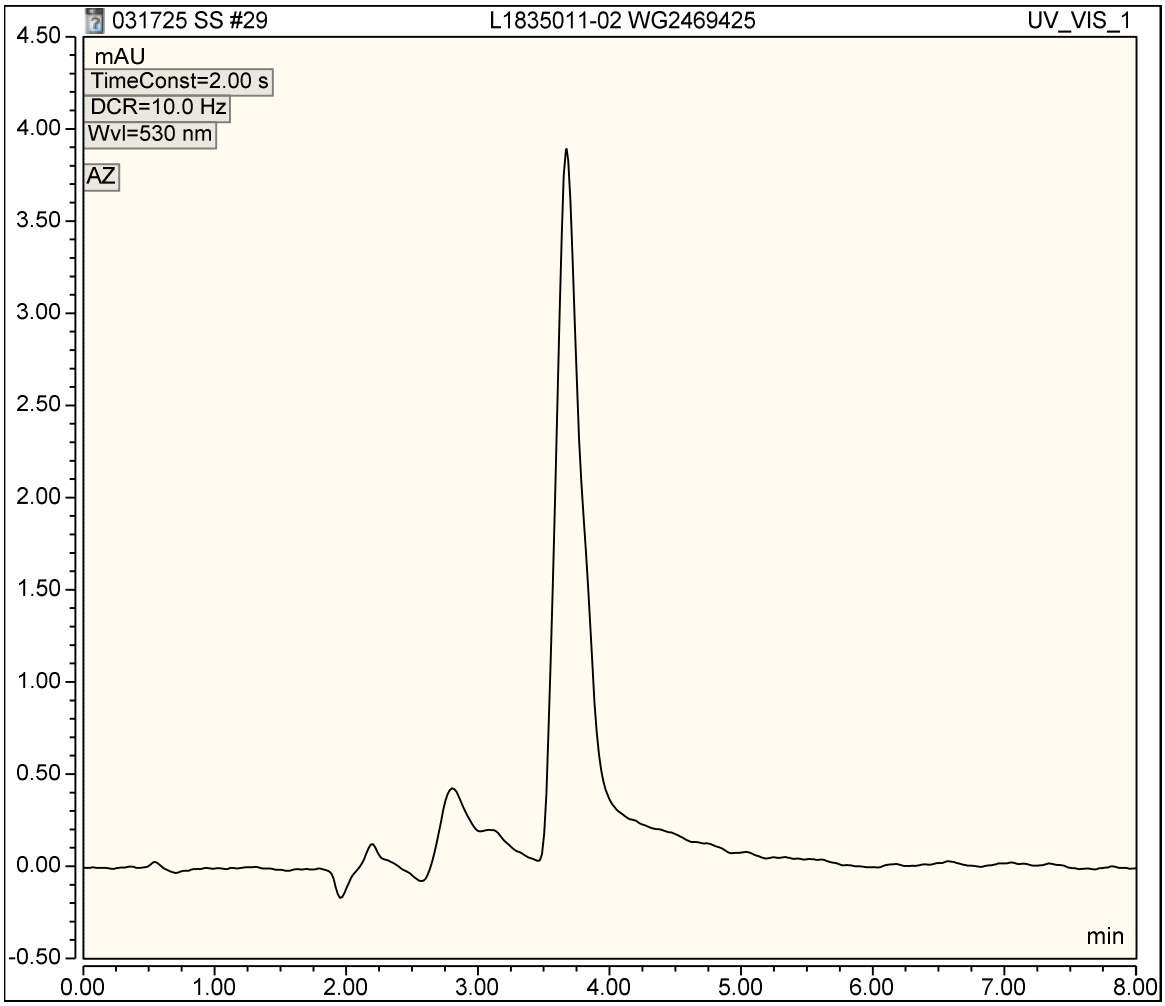
Sample Name:	**L1835011-02 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 03:33**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.67	CR6SS	BMB*	0.828	3.759	0.0051
		TOTAL:		0.83	3.76	0.01



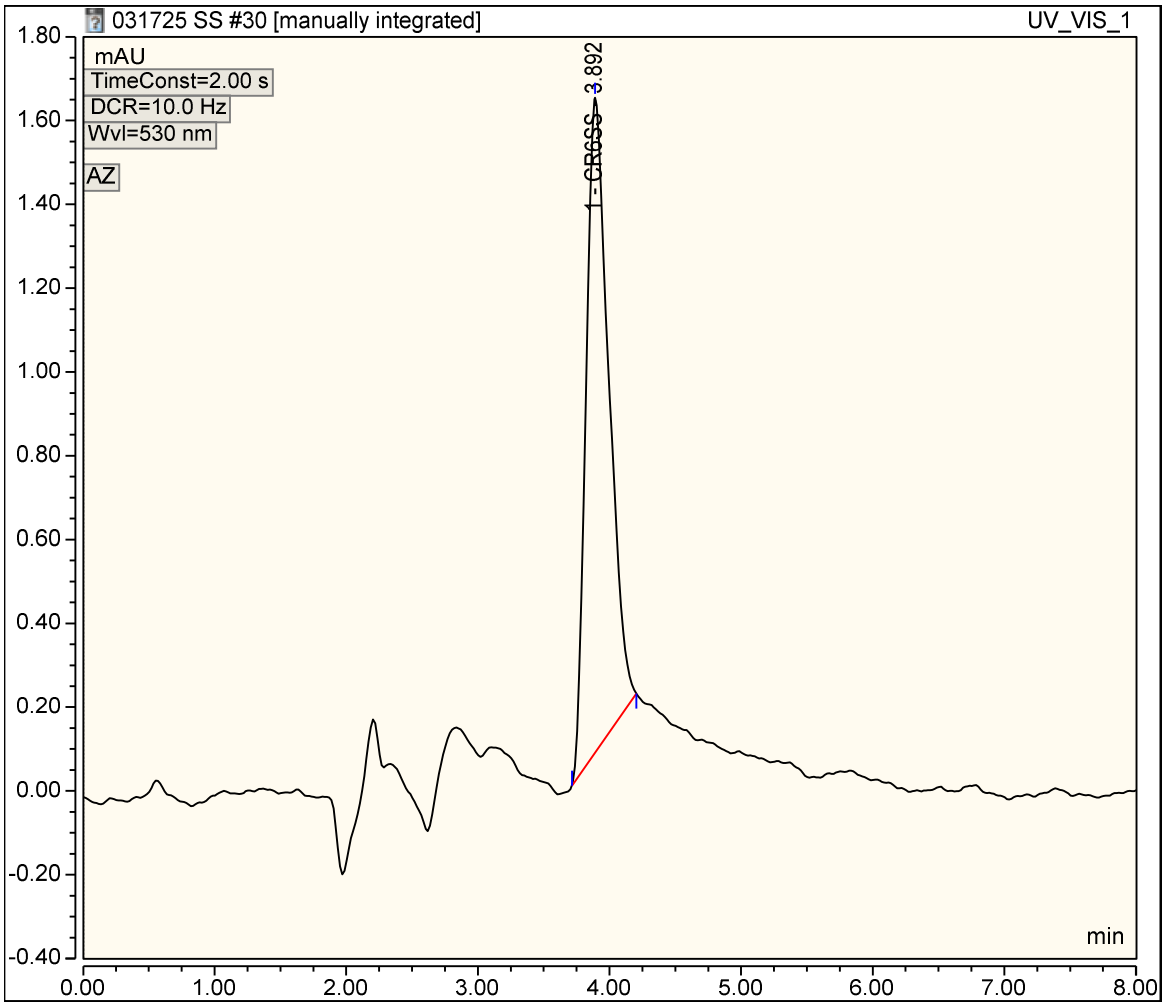
Sample Name:	**L1835011-02 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 03:33**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



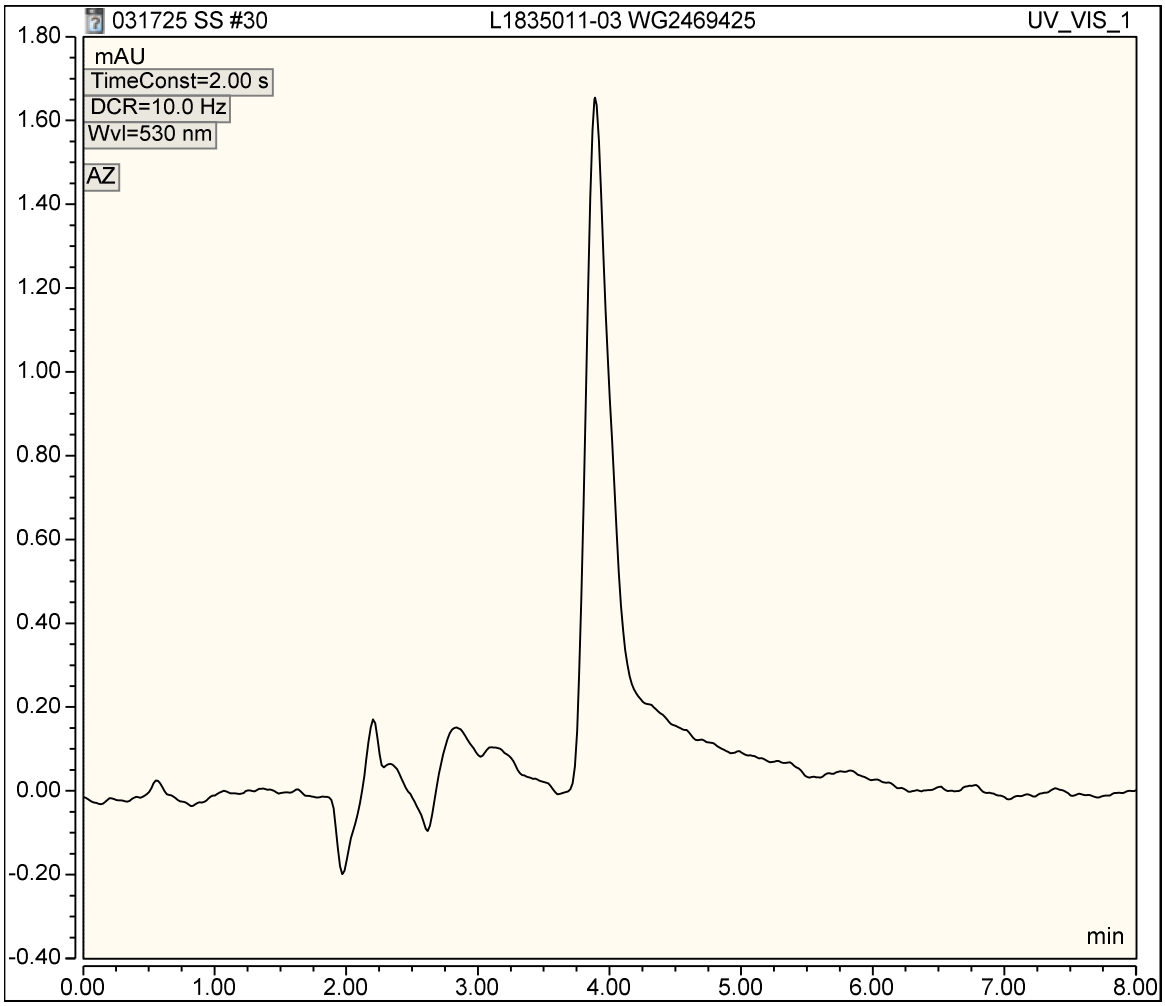
Sample Name:	**L1835011-03 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 03:43**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.89	CR6SS	BMB*	0.314	1.563	0.0010
		TOTAL:		0.31	1.56	0.00



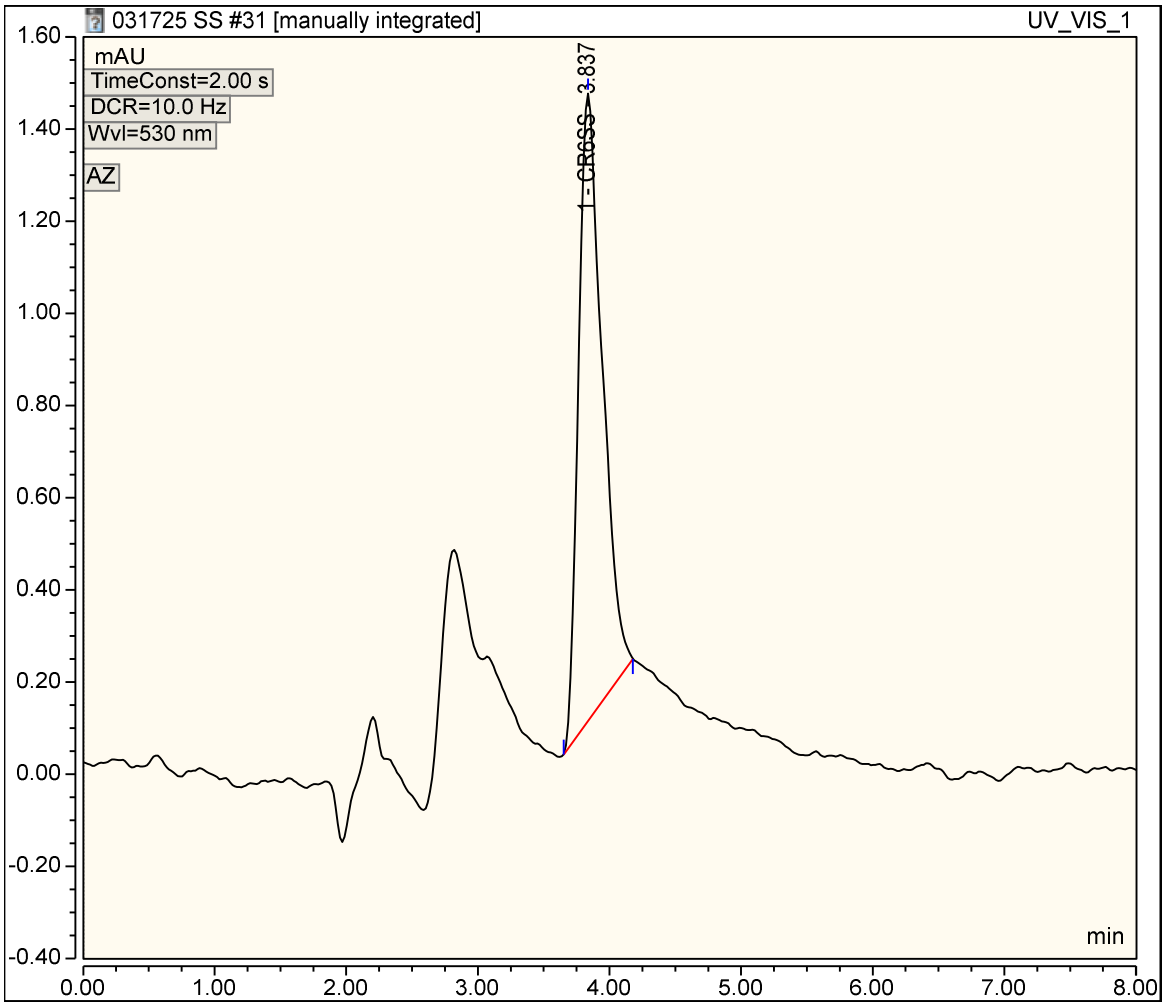
Sample Name:	**L1835011-03 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 03:43**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



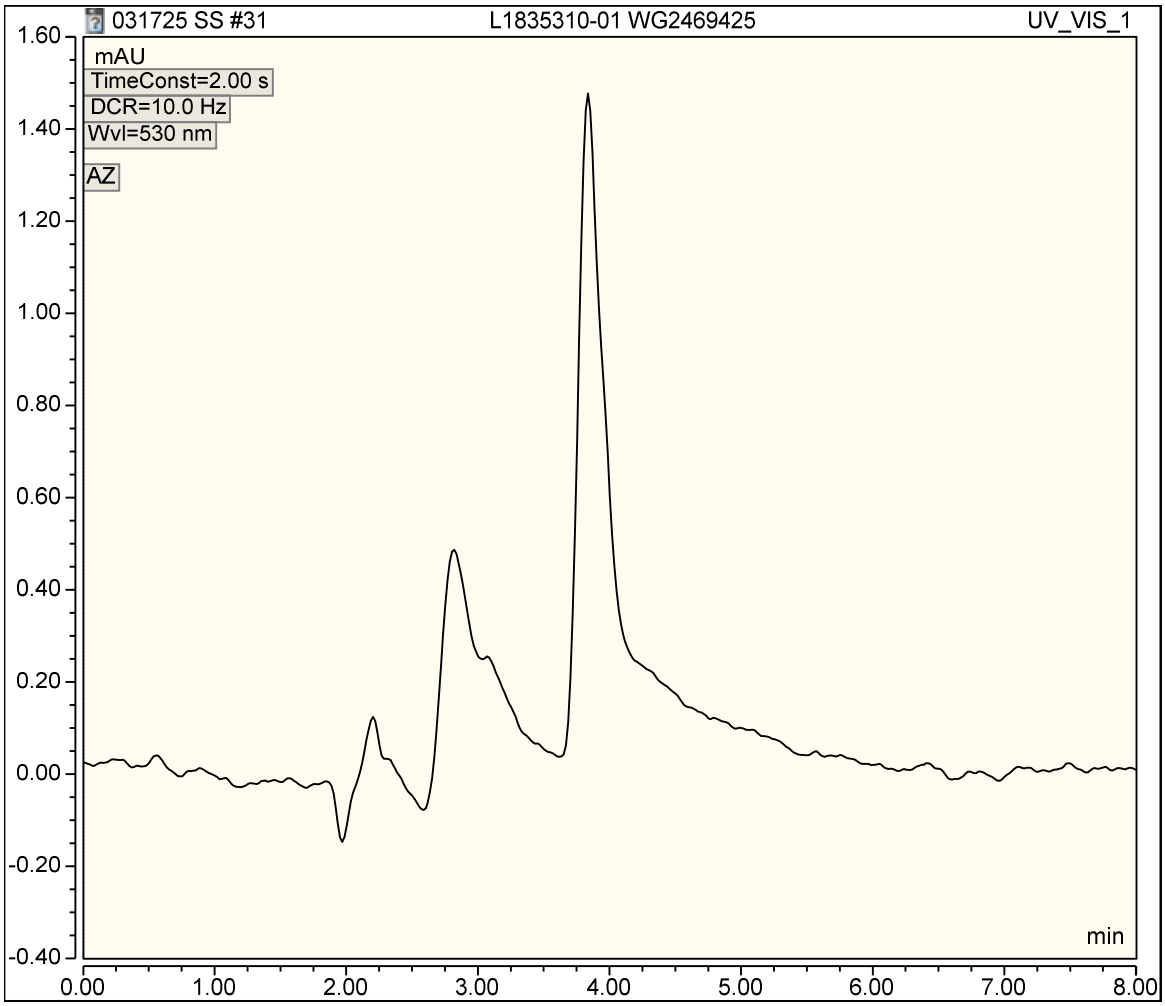
Sample Name:	**L1835310-01 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 03:53**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.84	CR6SS	BMB*	0.286	1.362	0.0008
		TOTAL:		0.29	1.36	0.00



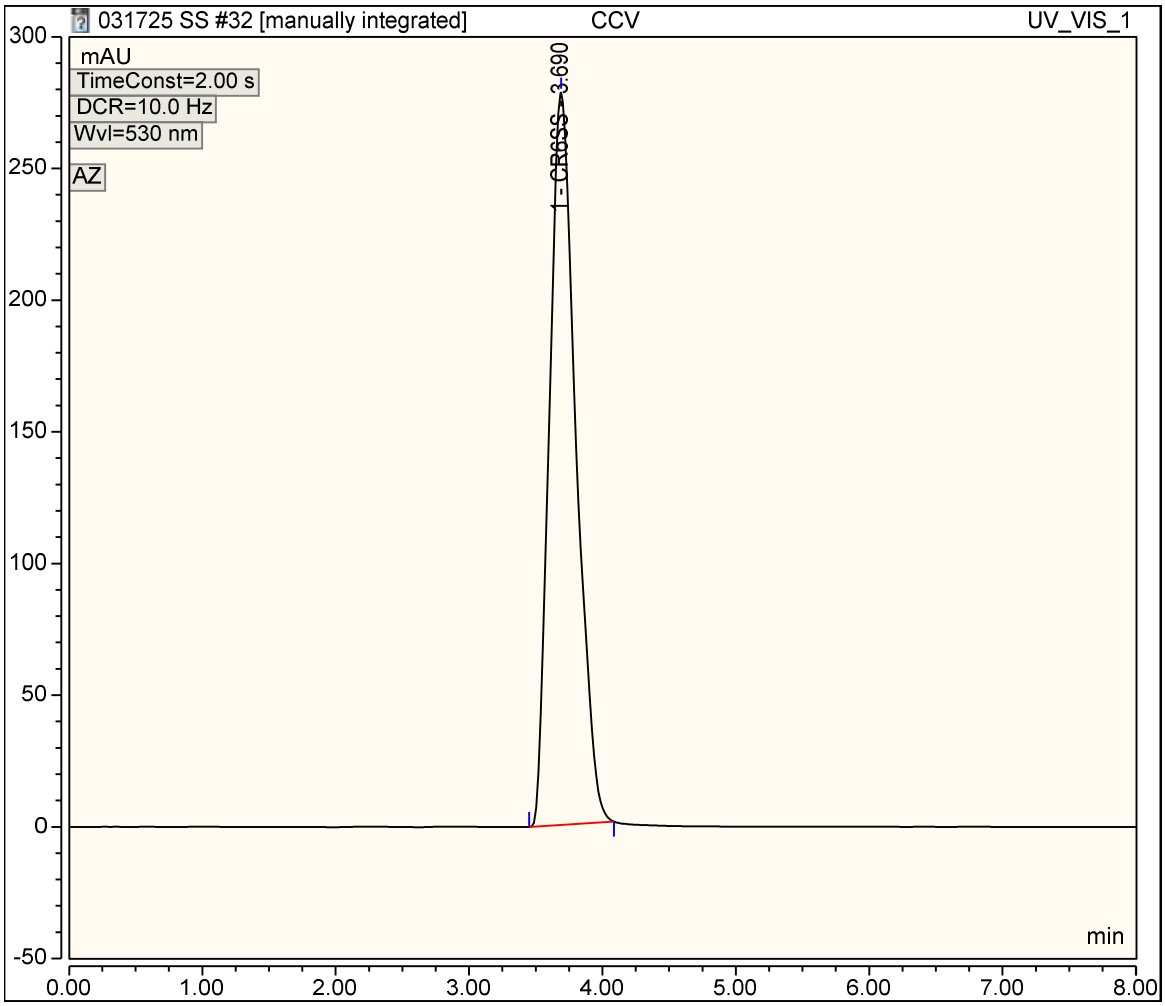
Sample Name:	**L1835310-01 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 03:53**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



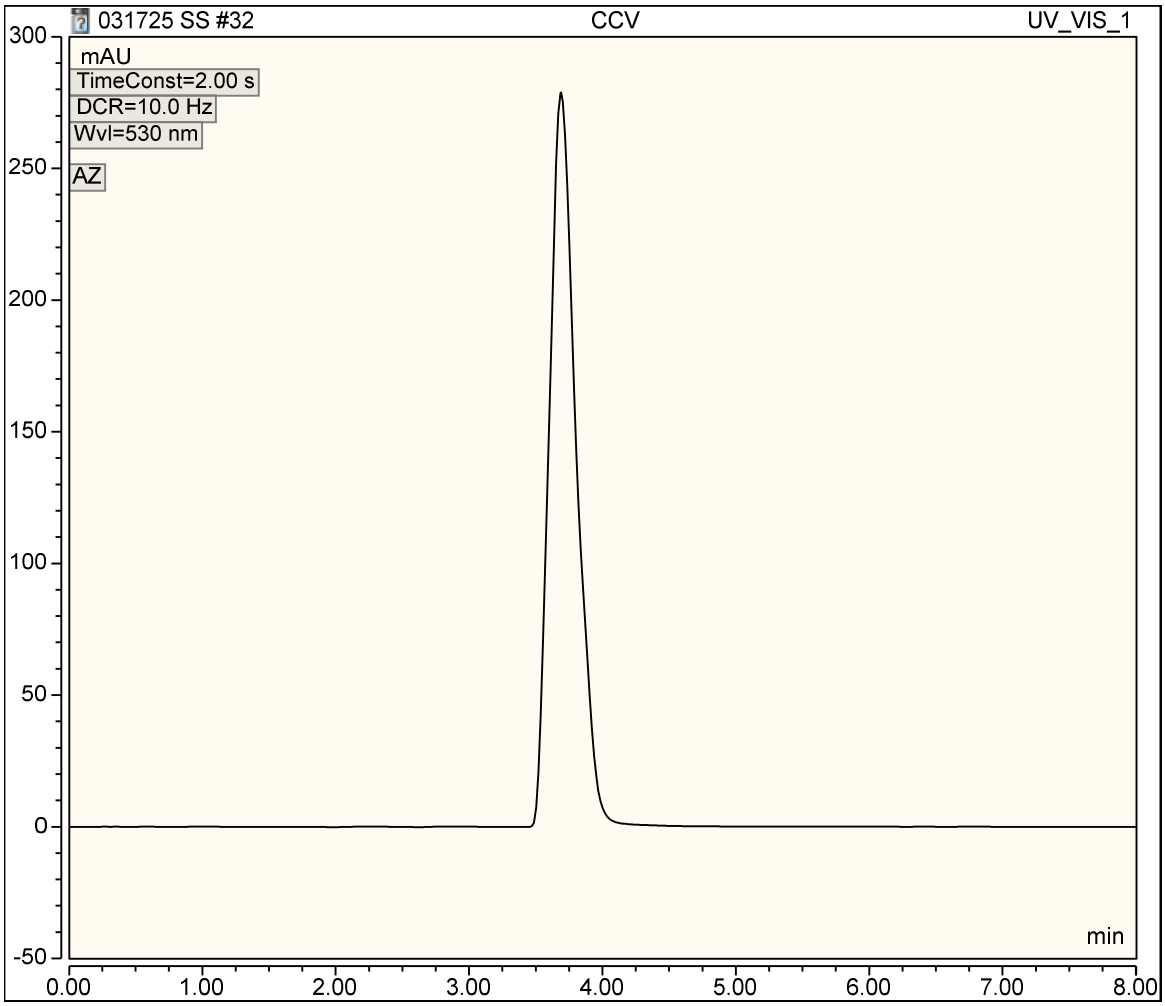
Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 04:02**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.69	CR6SS	BMB*	64.221	278.099	0.5151
		TOTAL:		64.22	278.10	0.52



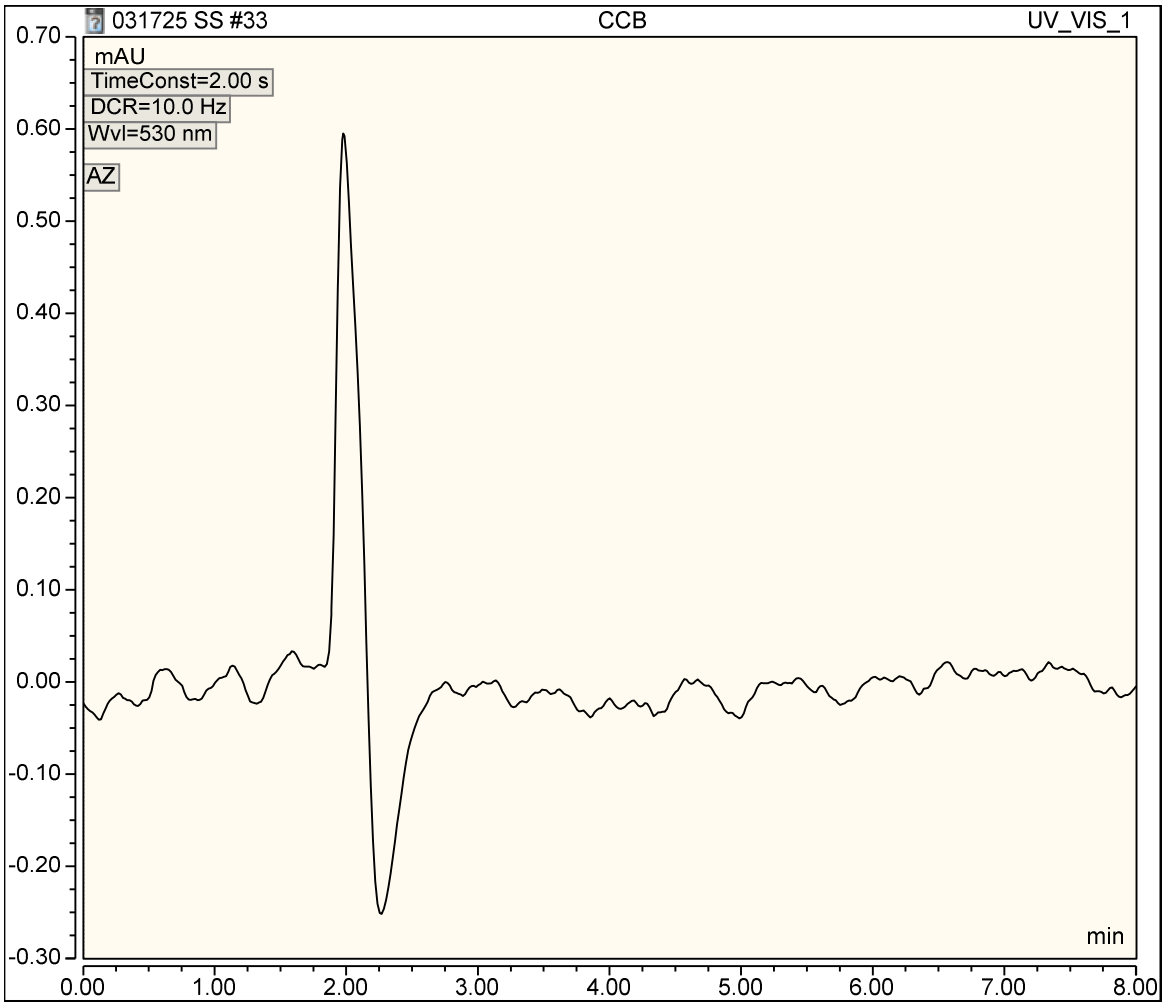
Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 04:02**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**CCB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 04:12**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00

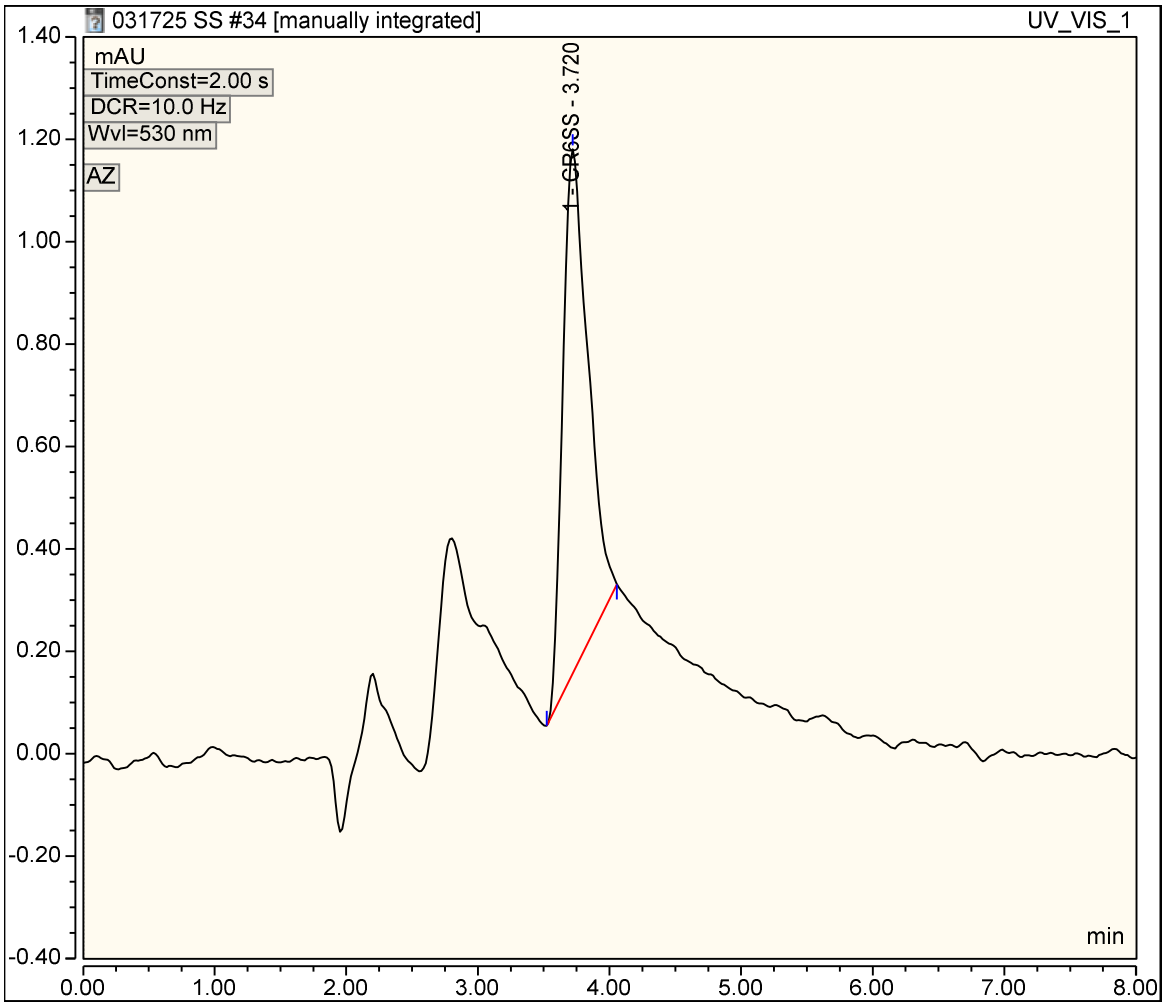


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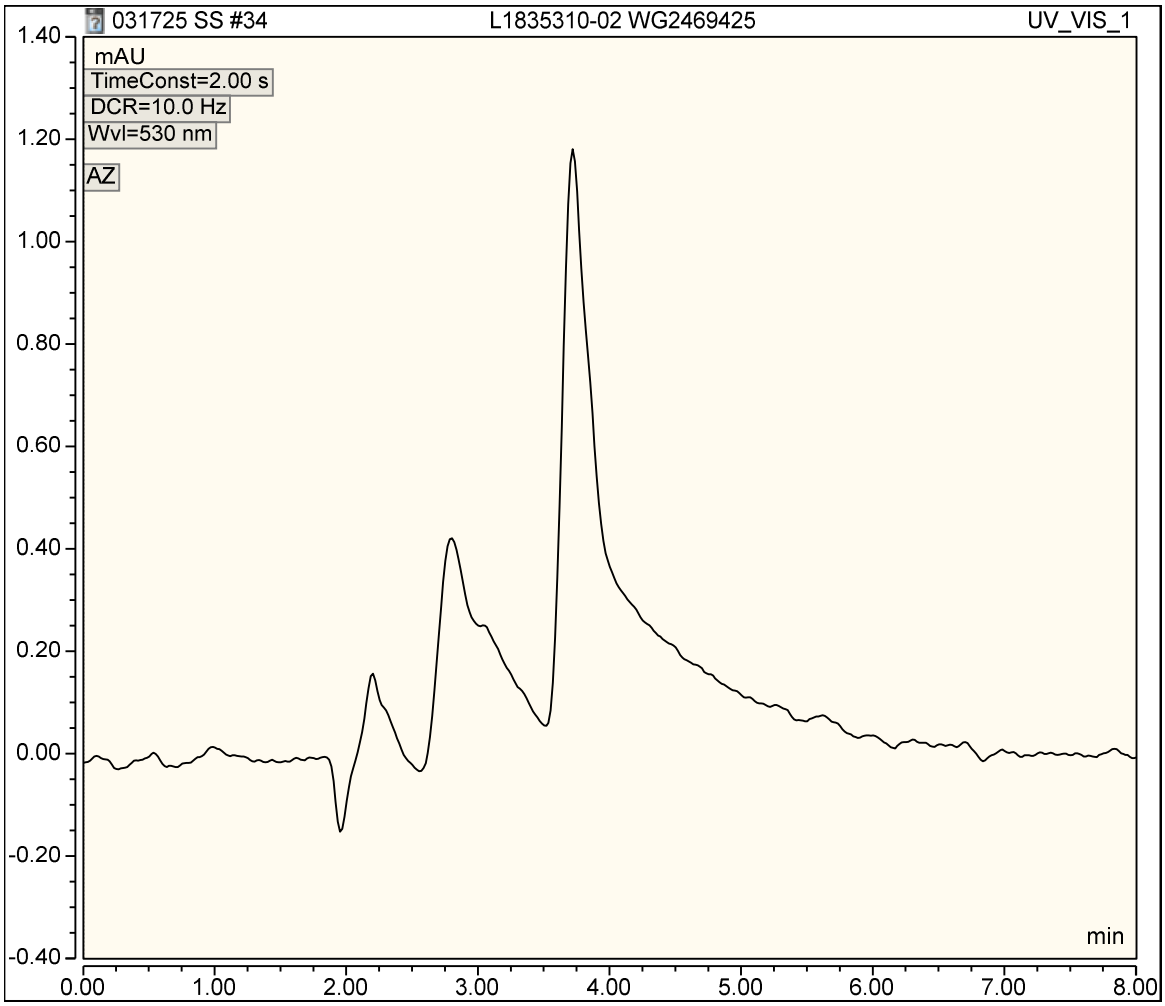
Sample Name:	**L1835310-02 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 04:22**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.72	CR6SS	BMB*	0.227	1.024	0.0003
		TOTAL:		0.23	1.02	0.00



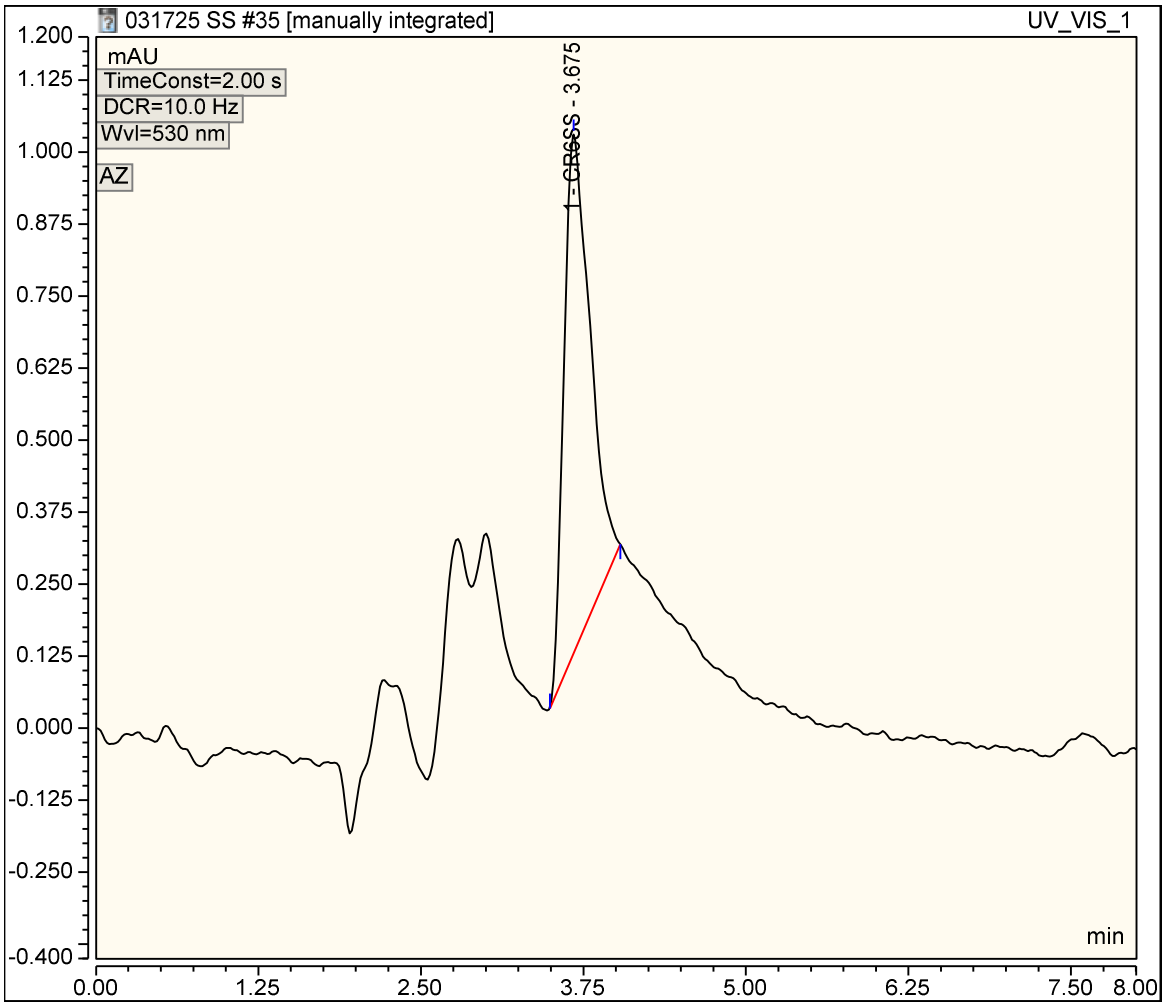
Sample Name:	**L1835310-02 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 04:22**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



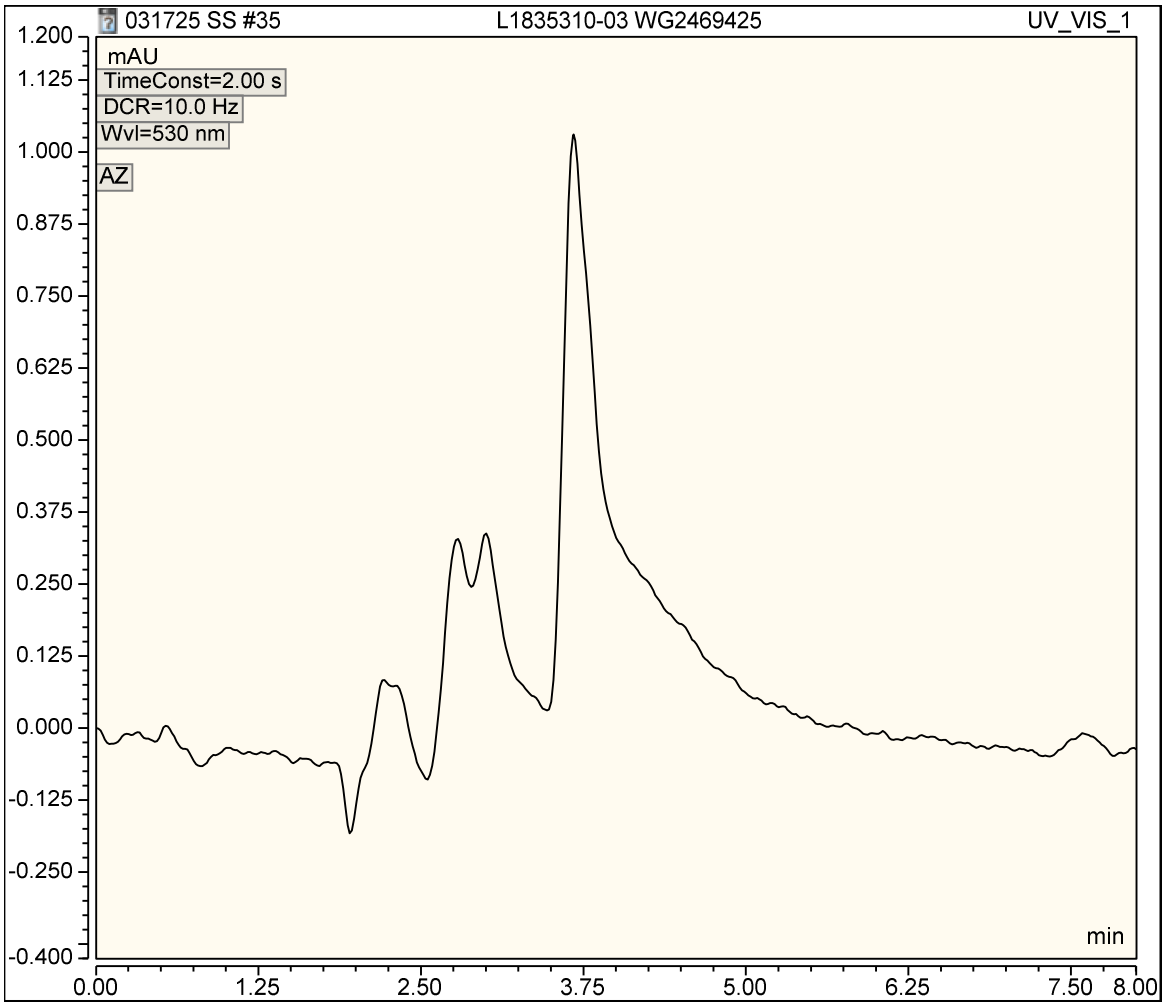
Sample Name:	**L1835310-03 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 04:31**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.67	CR6SS	BMB*	0.210	0.900	0.0002
		TOTAL:		0.21	0.90	0.00



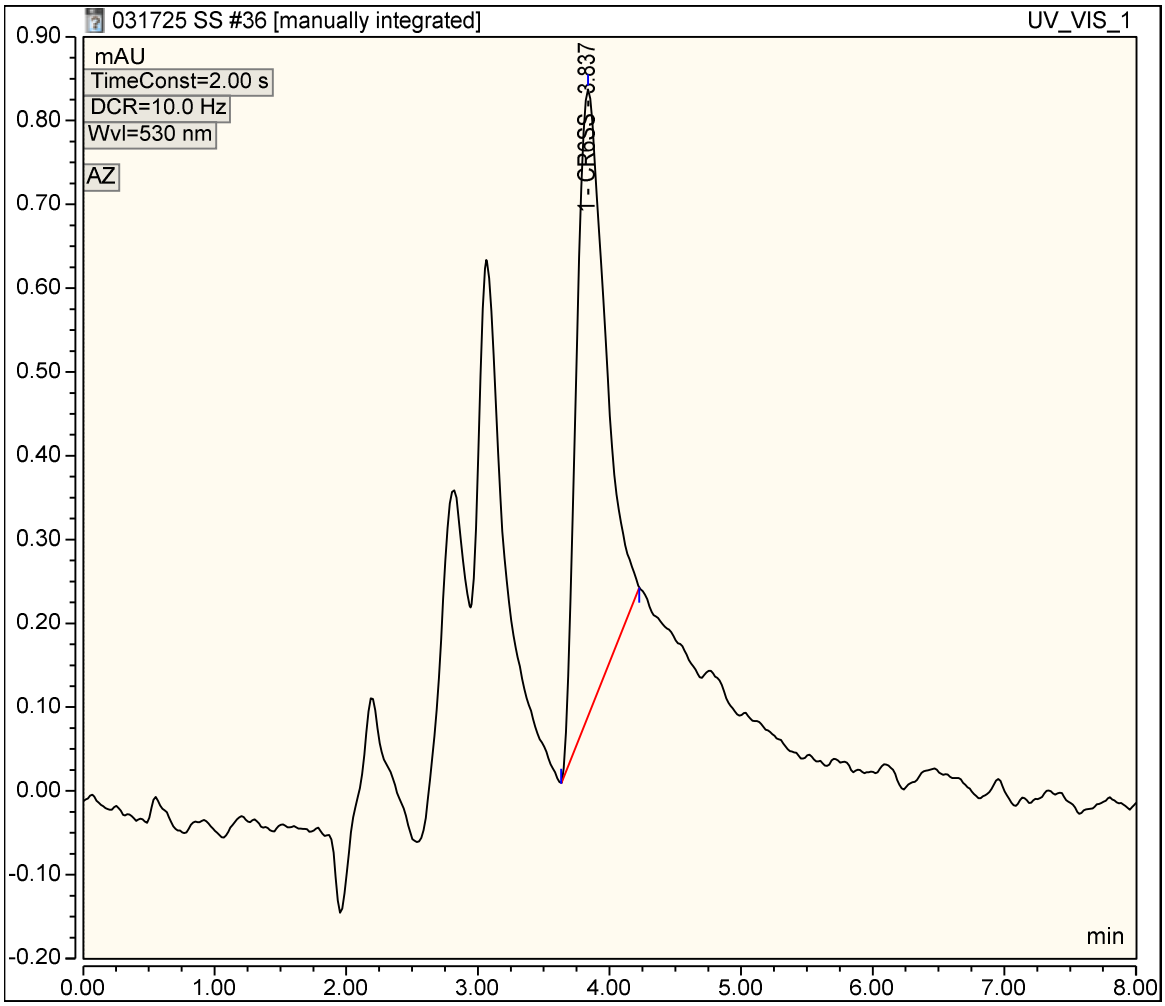
Sample Name:	**L1835310-03 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 04:31**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**L1835568-01 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 04:41**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.84	CR6SS	BMB*	0.192	0.748	0.0000
		TOTAL:		0.19	0.75	0.00

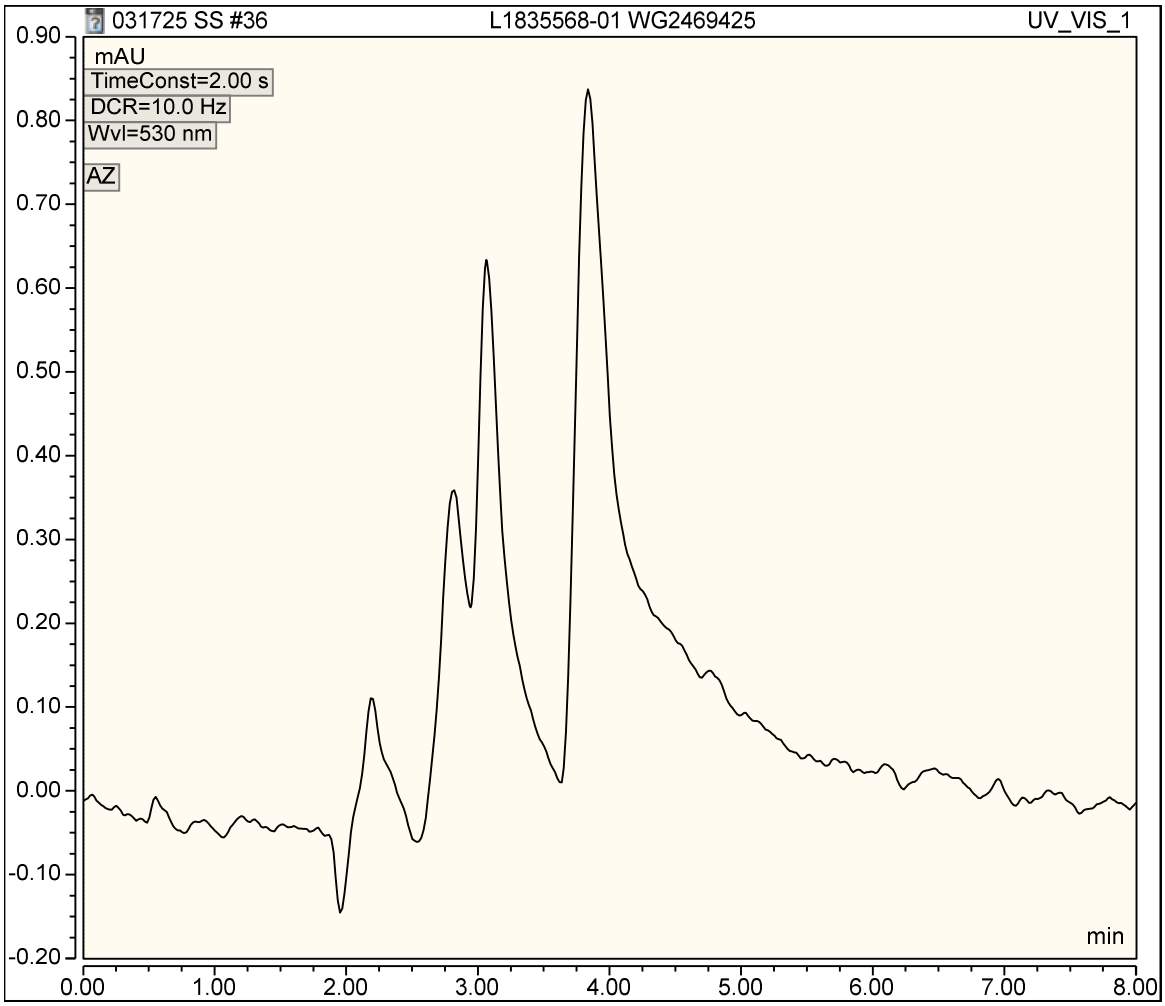


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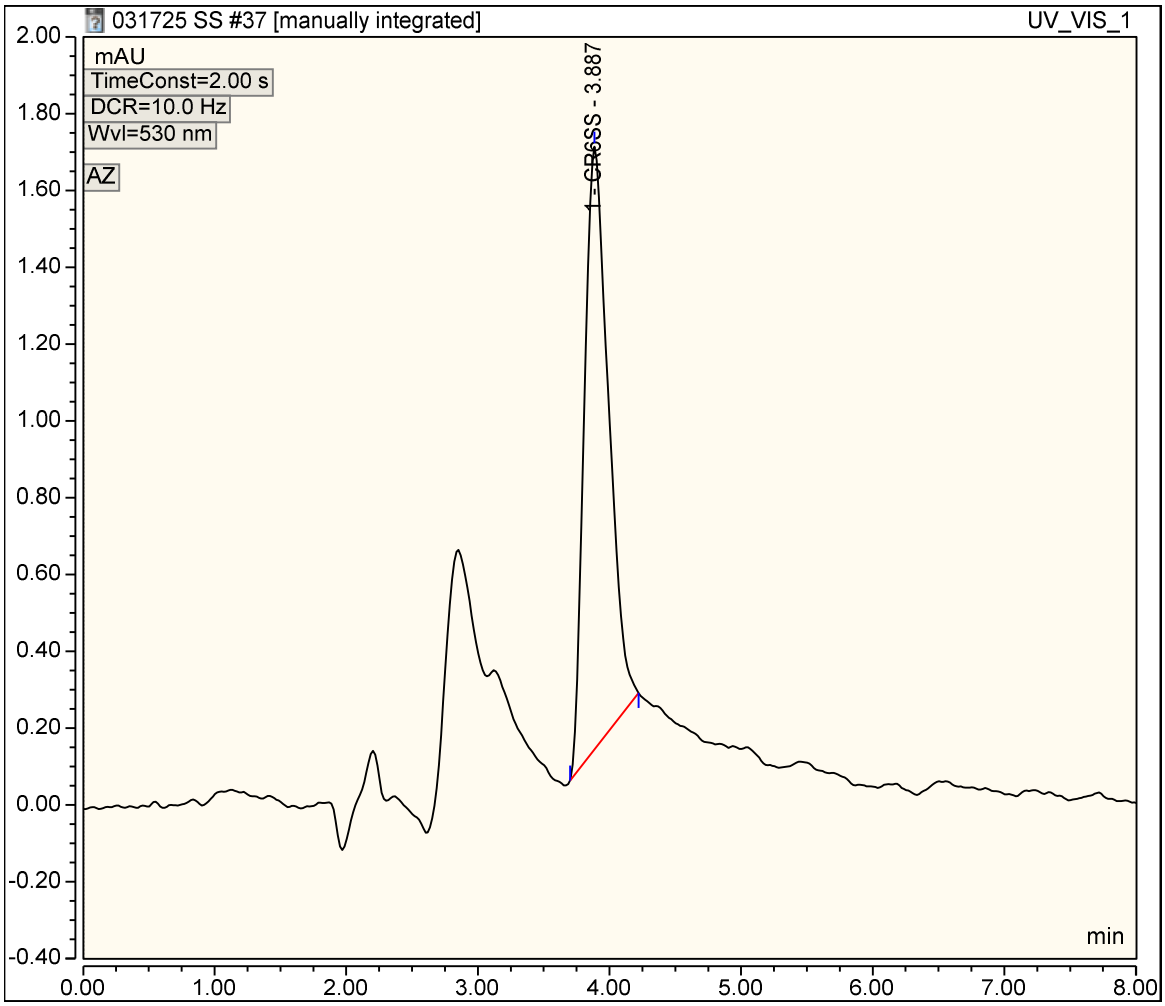
Sample Name:	**L1835568-01 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 04:41**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



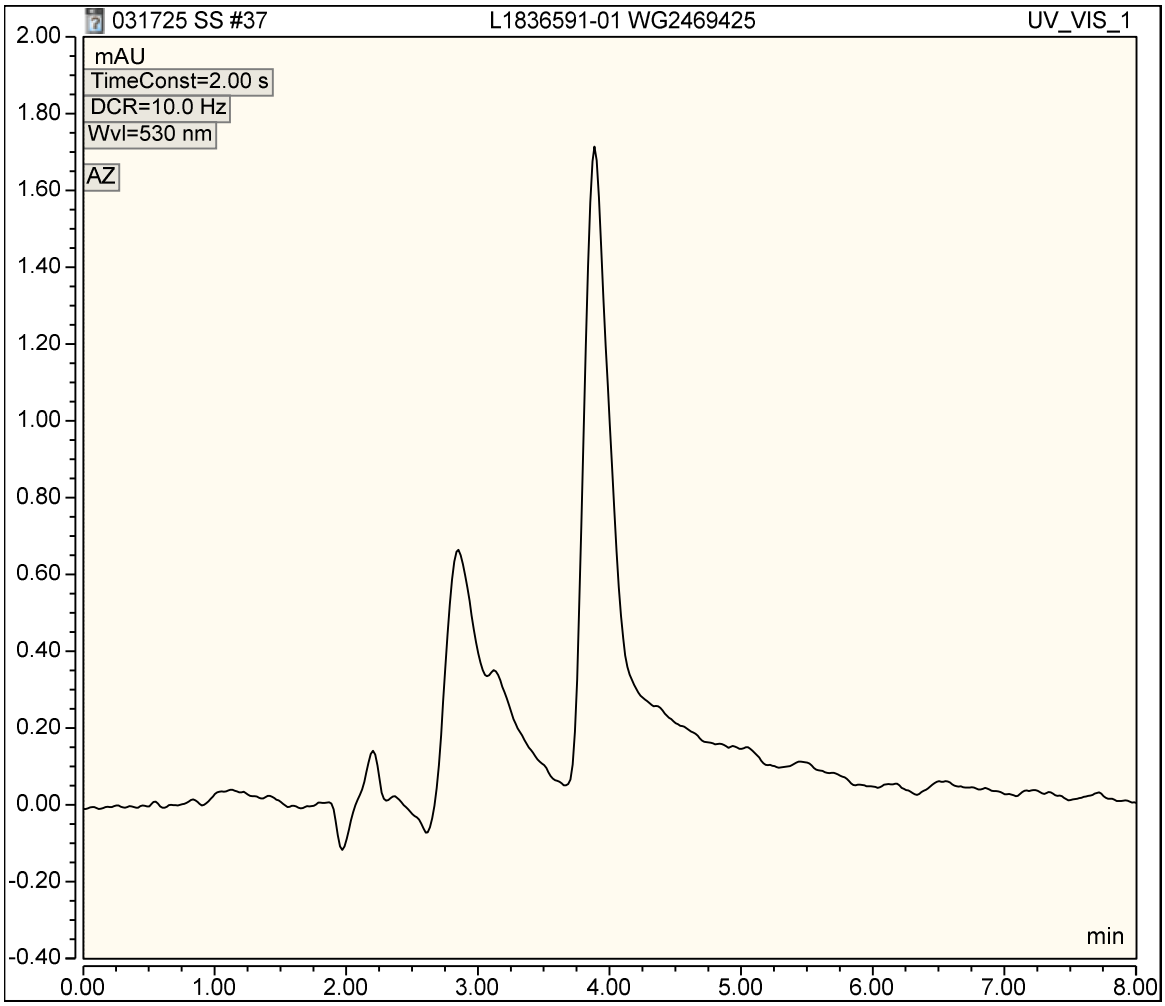
Sample Name:	**L1836591-01 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 04:50**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.89	CR6SS	BMB*	0.336	1.569	0.0012
		TOTAL:		0.34	1.57	0.00



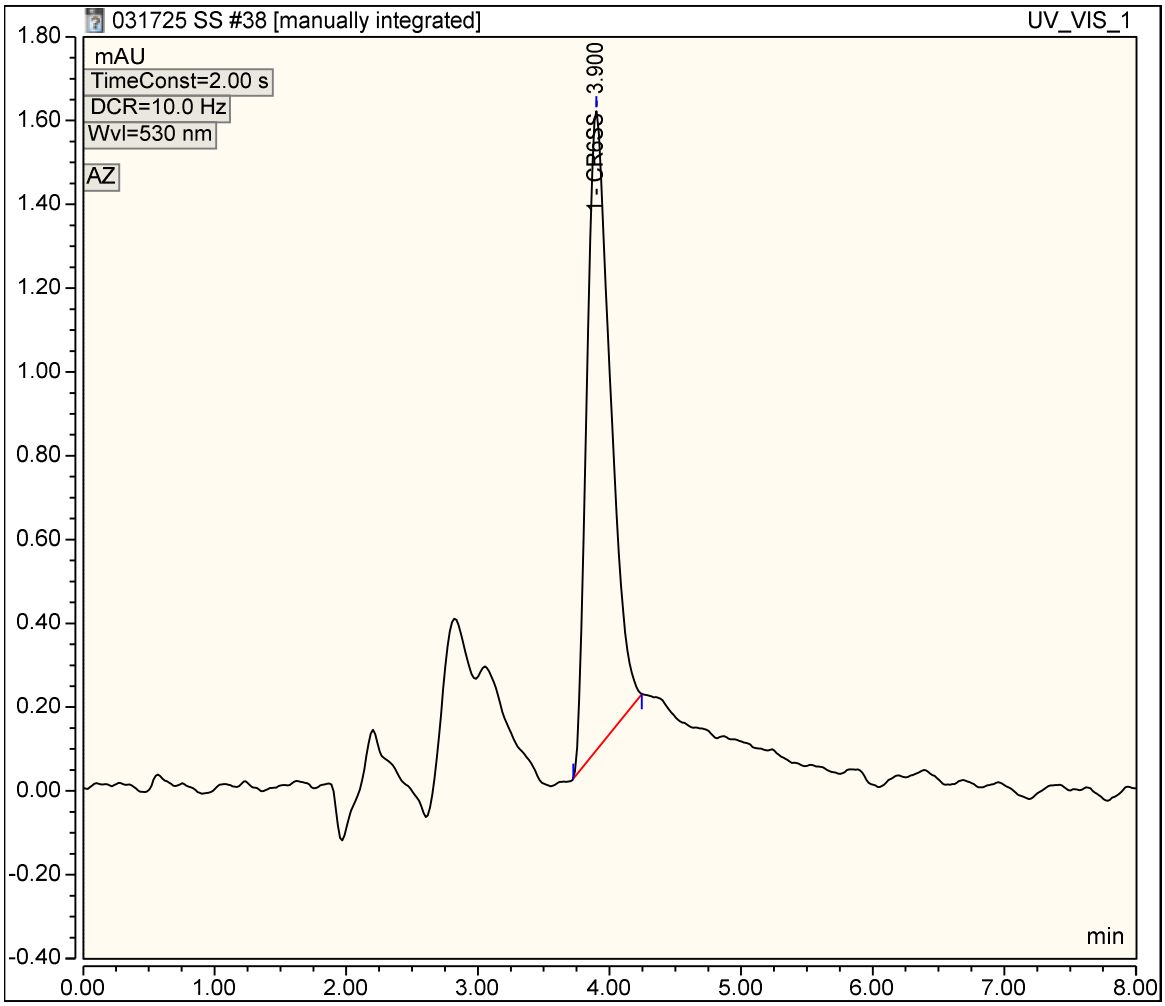
Sample Name:	**L1836591-01 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 04:50**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



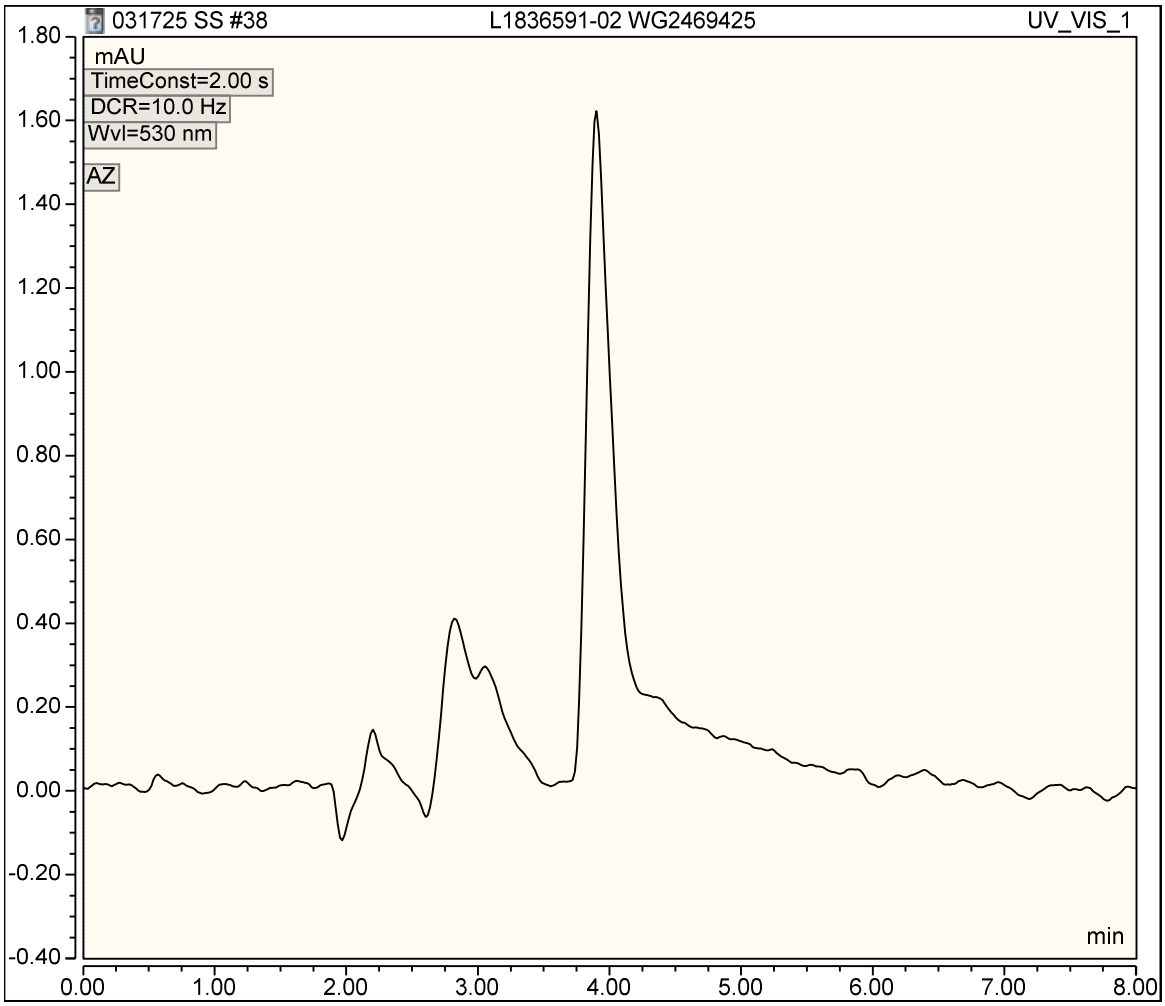
Sample Name:	**L1836591-02 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 05:00**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.90	CR6SS	BMB*	0.317	1.525	0.0010
		TOTAL:		0.32	1.53	0.00



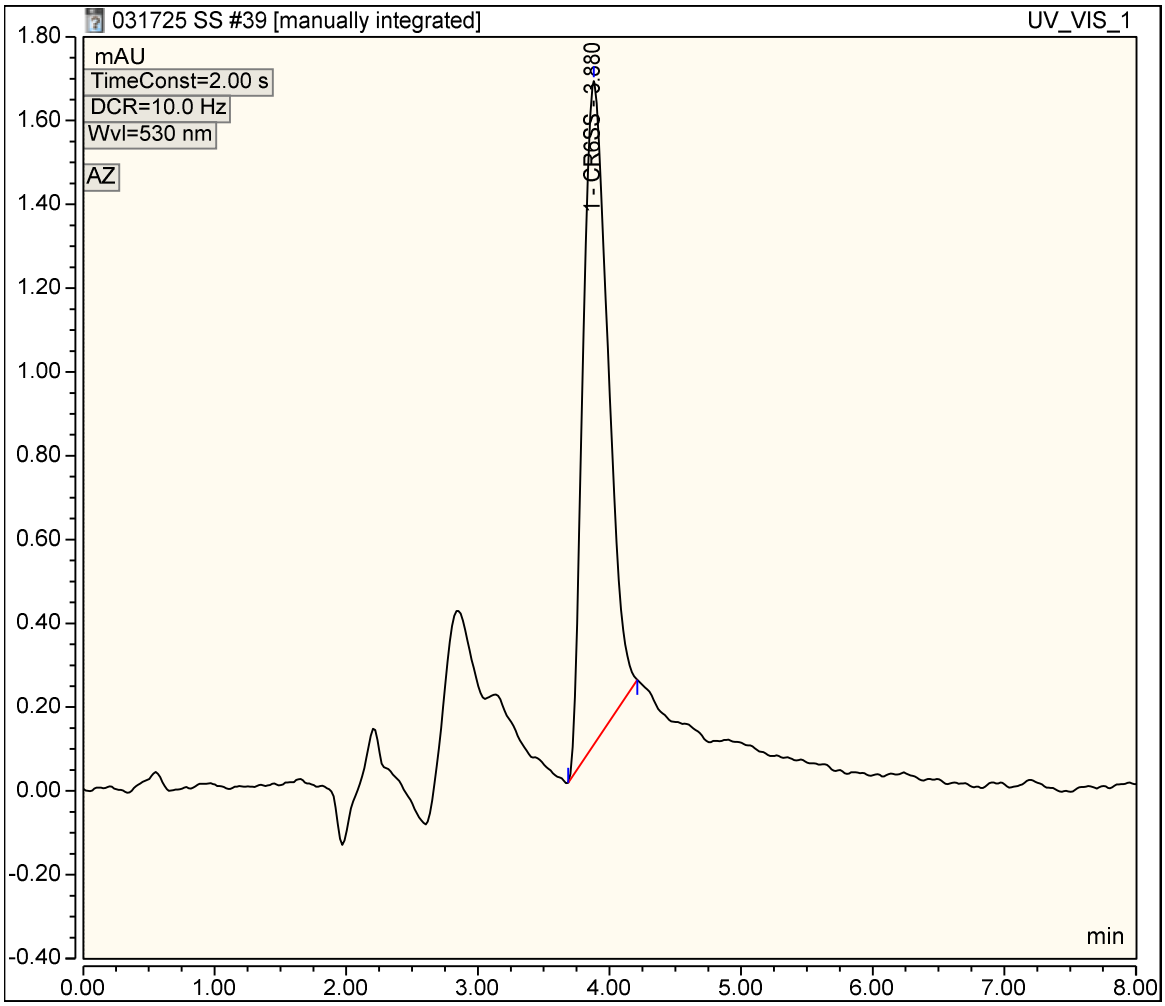
Sample Name:	**L1836591-02 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 05:00**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



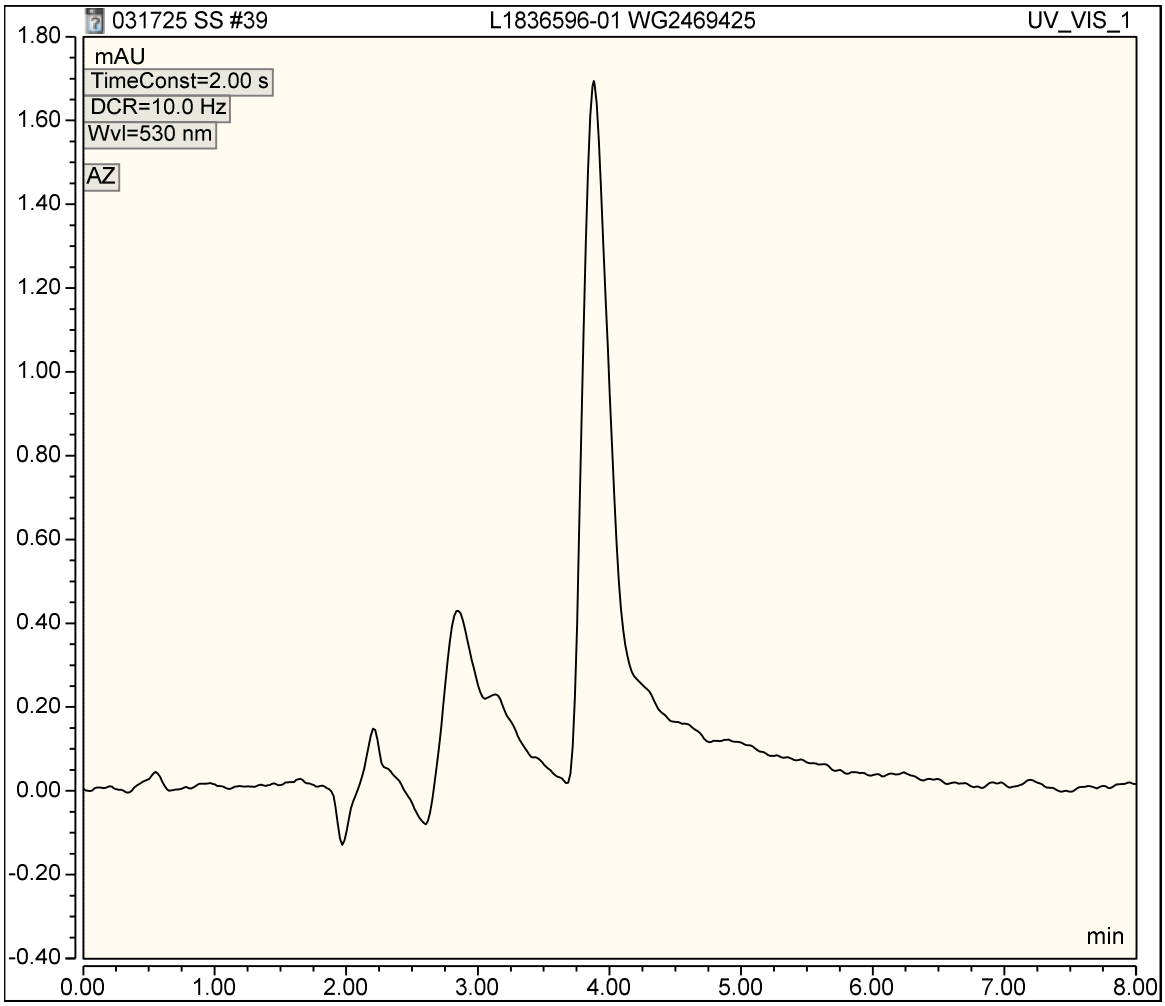
Sample Name:	**L1836596-01 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 05:10**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.88	CR6SS	BMB*	0.350	1.584	0.0013
		TOTAL:		0.35	1.58	0.00



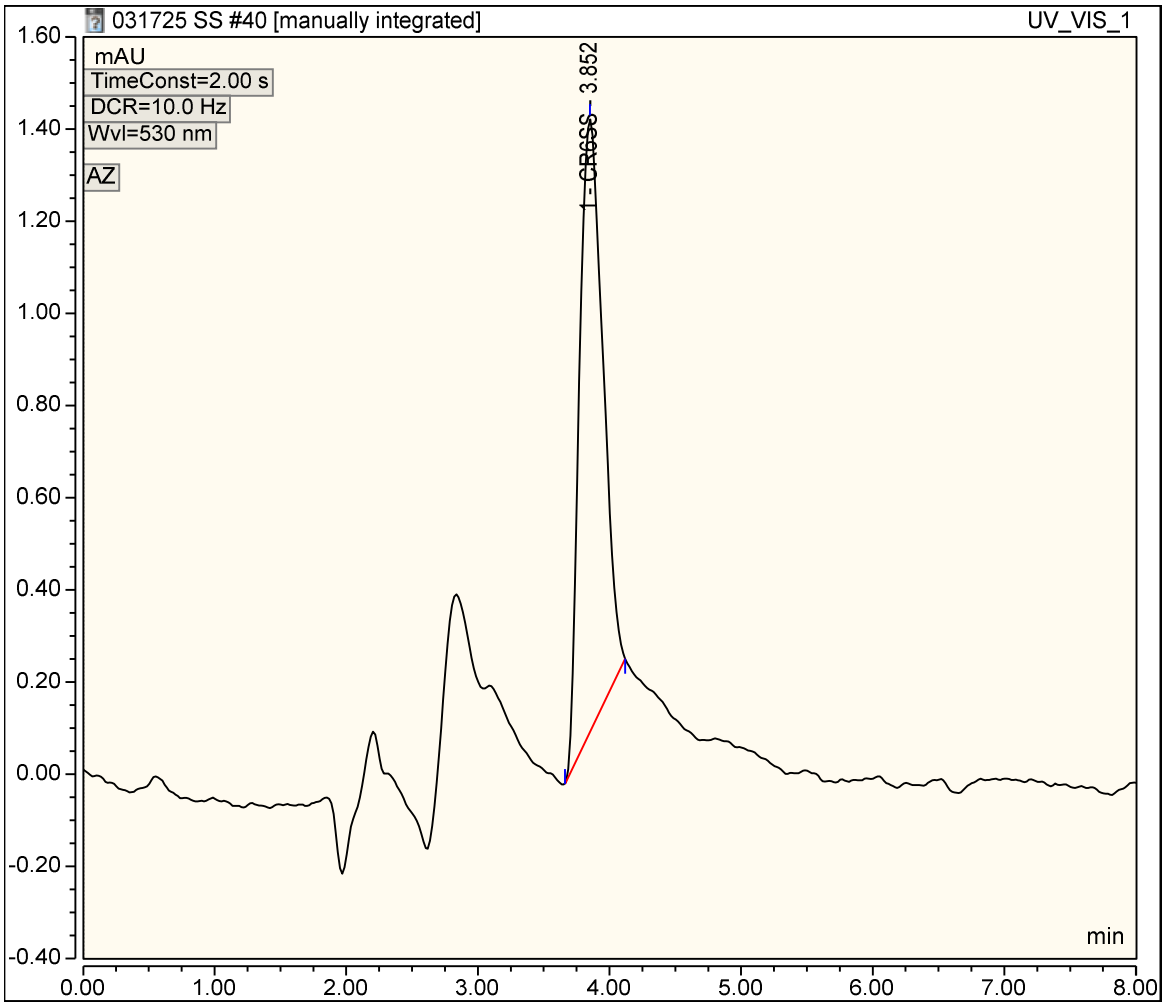
Sample Name:	**L1836596-01 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 05:10**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



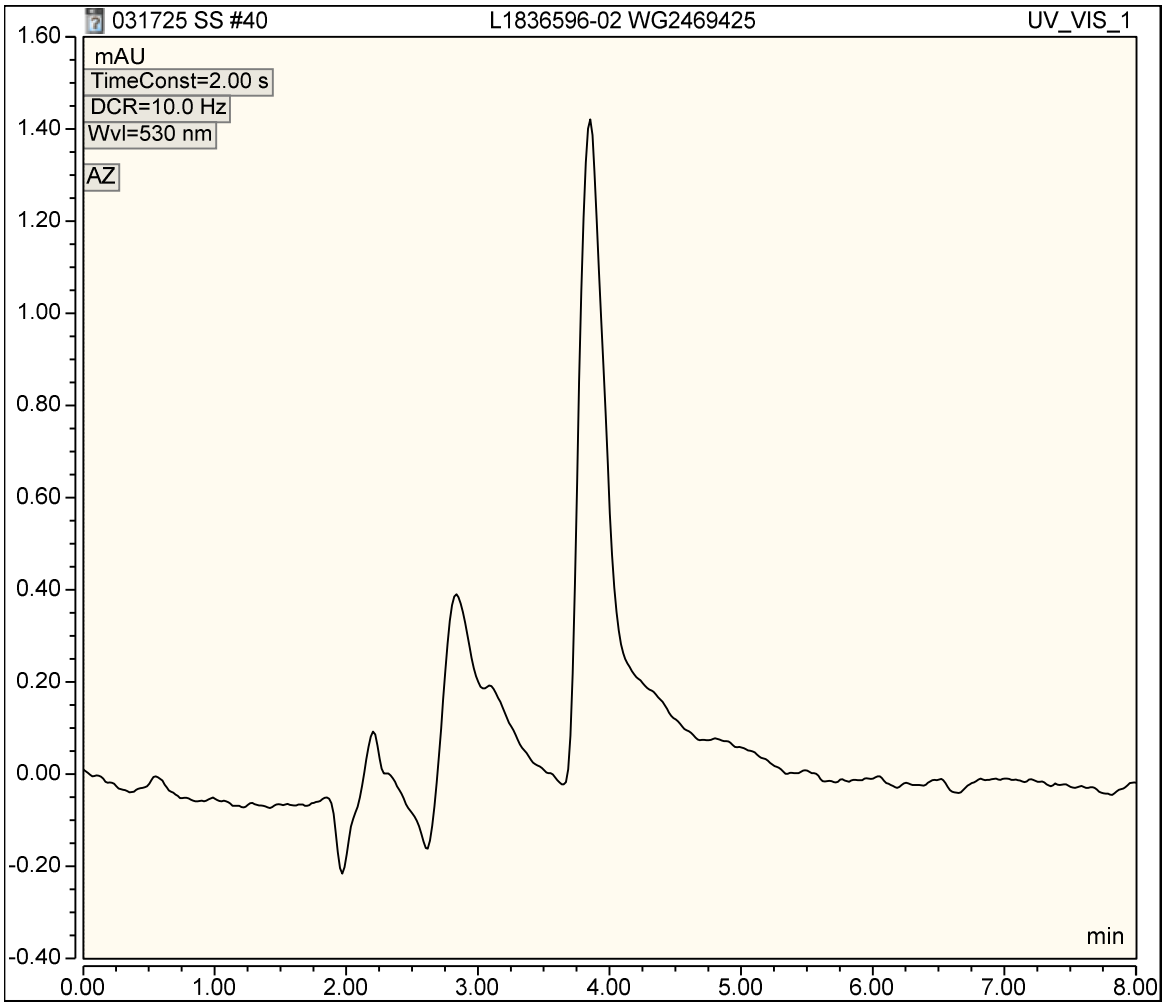
Sample Name:	**L1836596-02 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 05:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.85	CR6SS	BMB*	0.276	1.329	0.0007
		TOTAL:		0.28	1.33	0.00



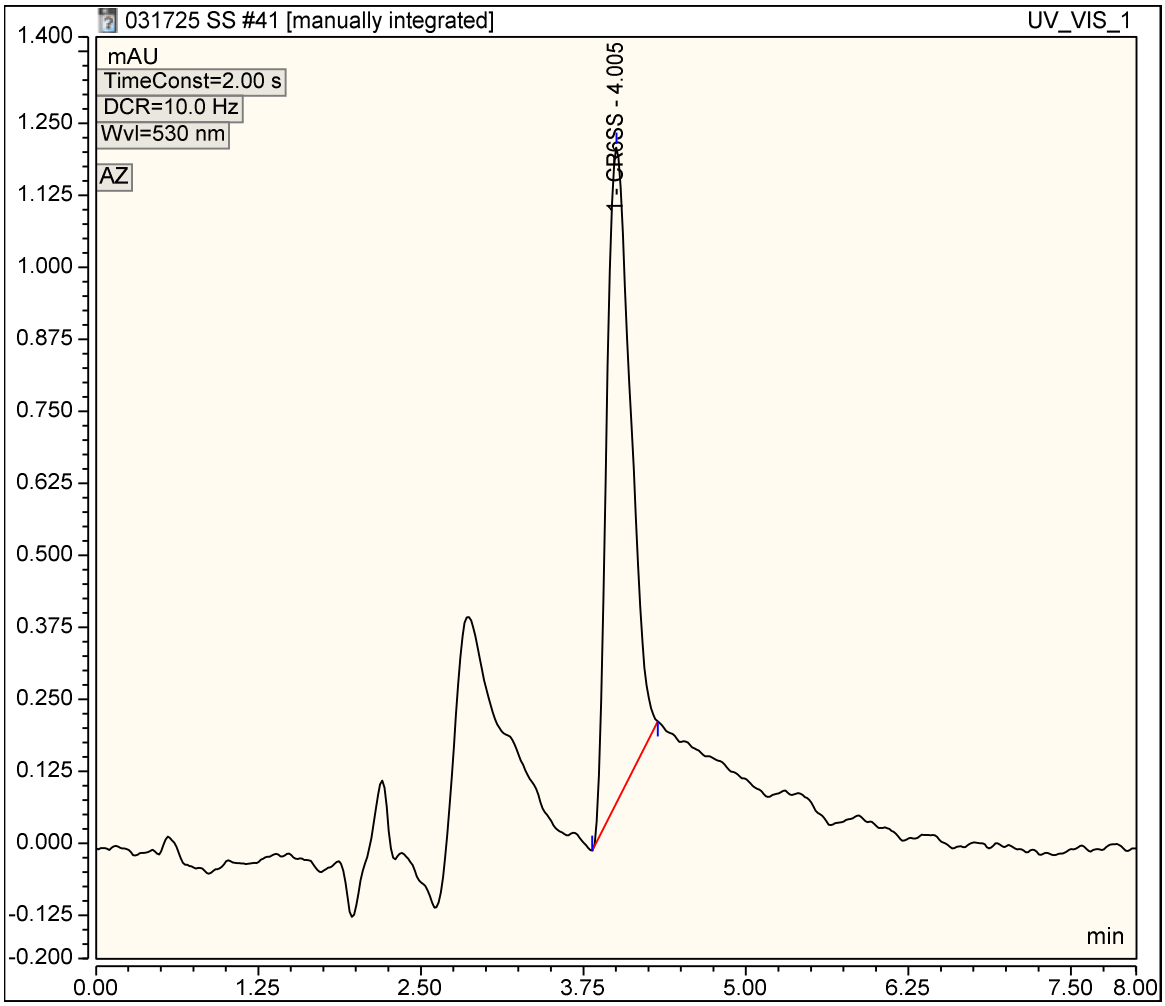
Sample Name:	**L1836596-02 WG2469425**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 05:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



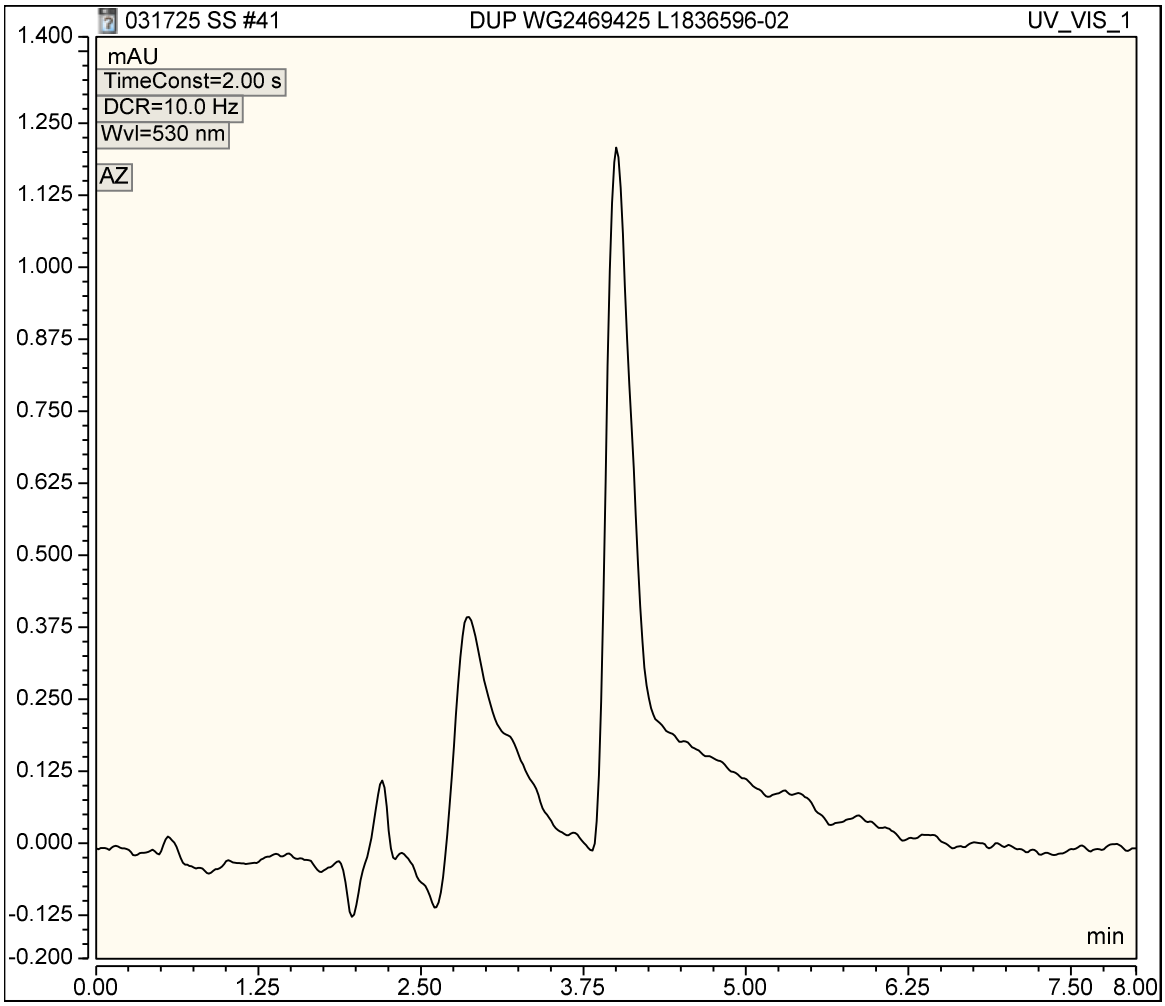
Sample Name:	**DUP WG2469425 L1836596-02**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 05:29**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.00	CR6SS	BMB*	0.244	1.138	0.0004
		TOTAL:		0.24	1.14	0.00



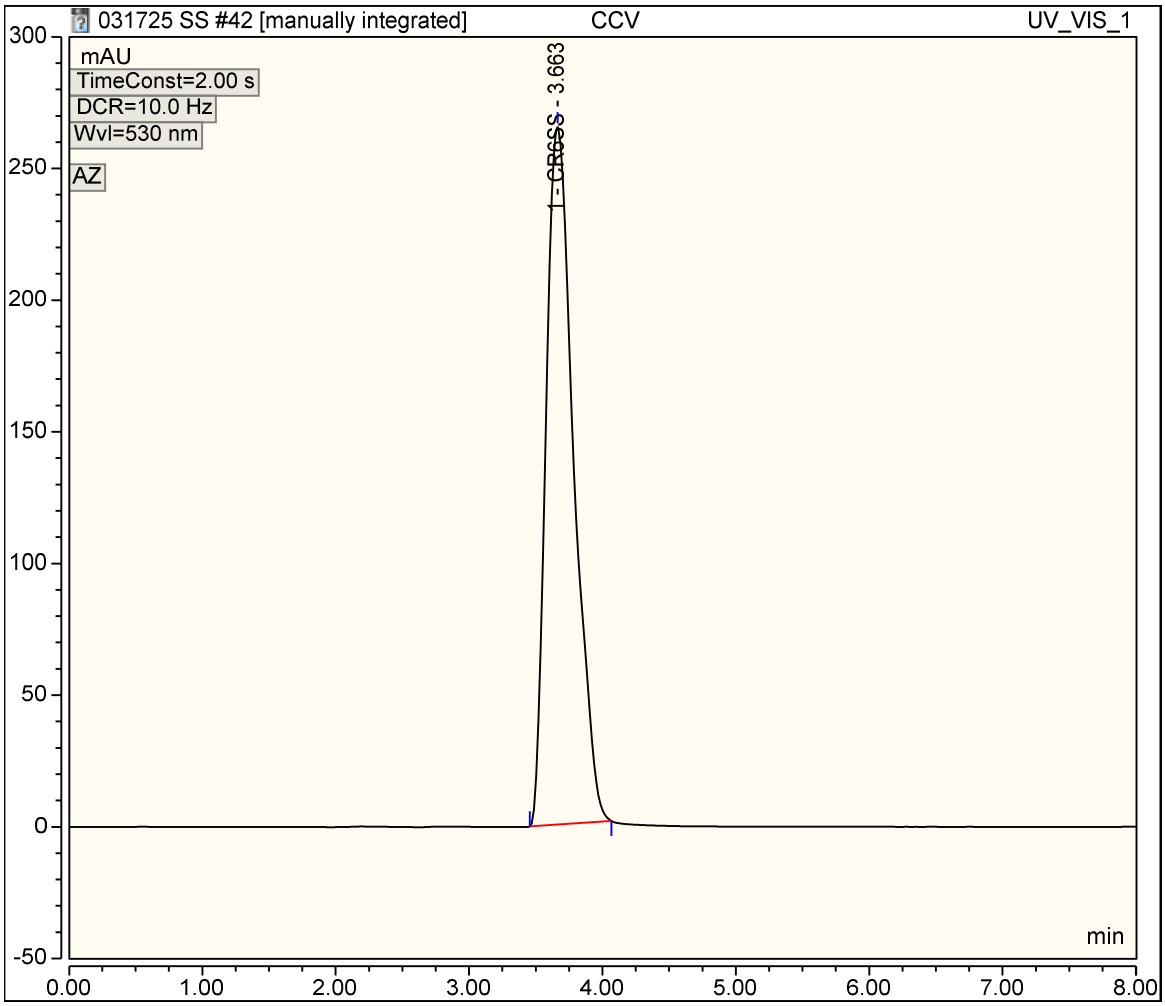
Sample Name:	**DUP WG2469425 L1836596-02**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 05:29**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



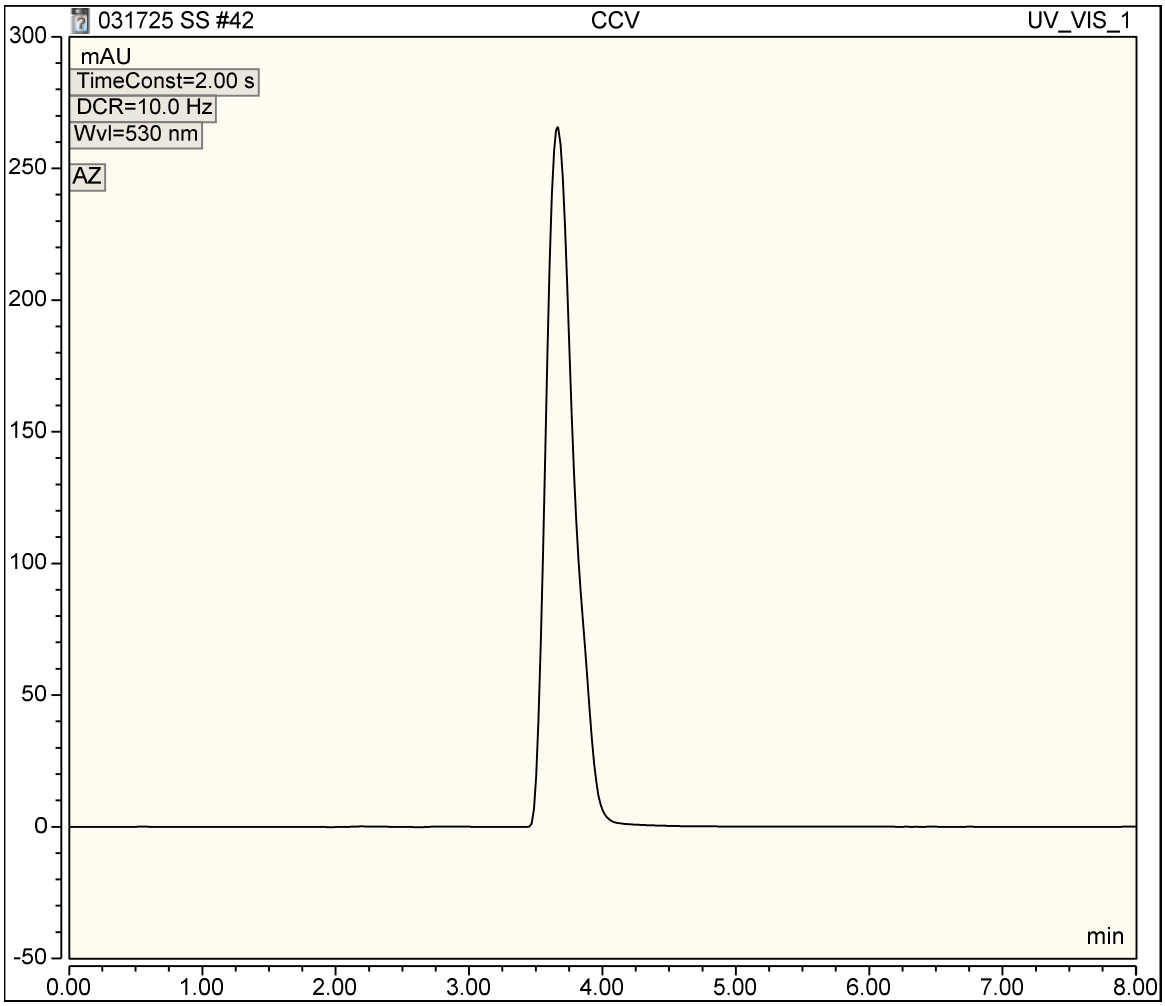
Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031725**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 05:39**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.66	CR6SS	BMB*	63.826	264.839	0.5120
		TOTAL:		63.83	264.84	0.51



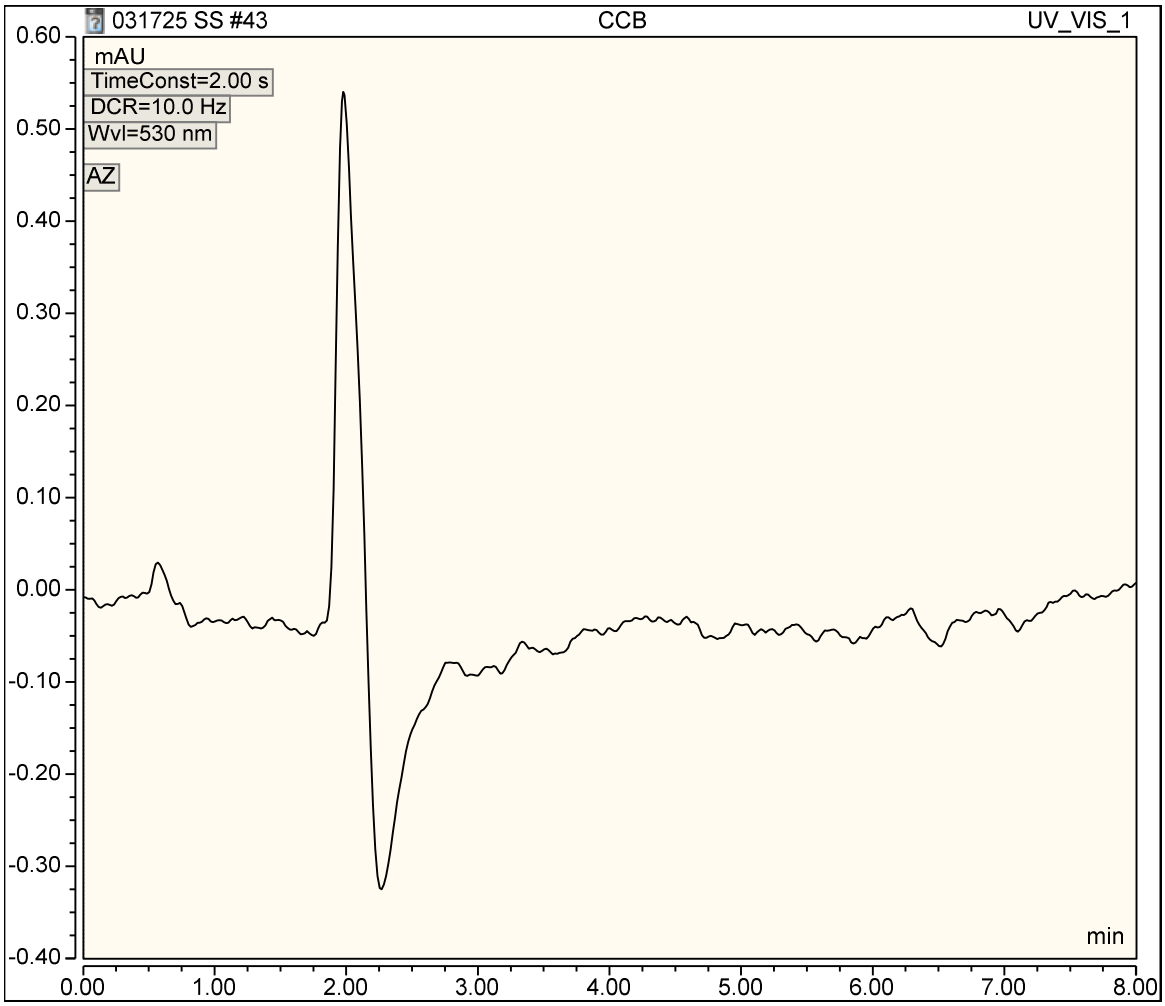
Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 05:39**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



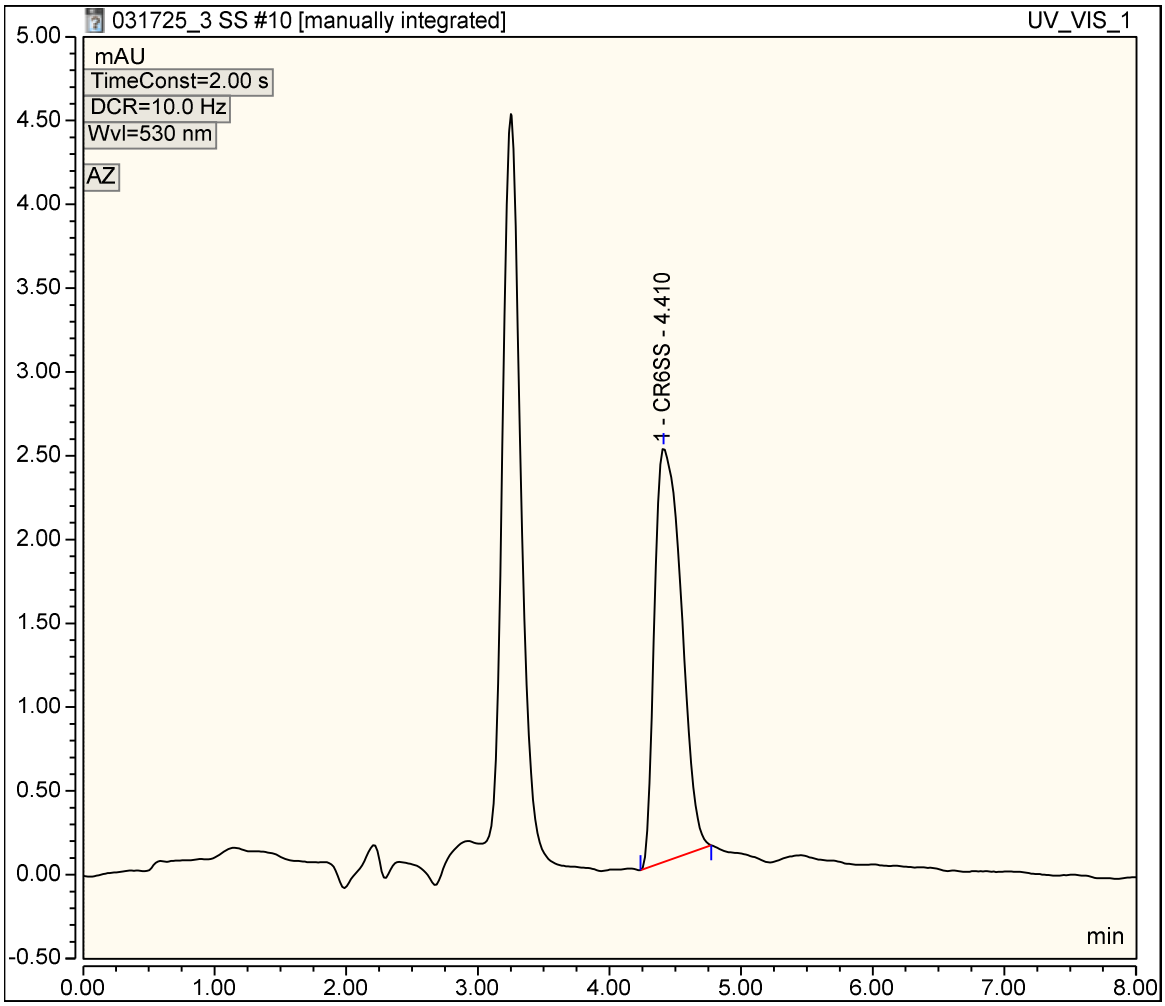
Sample Name:	**CCB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 05:48**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



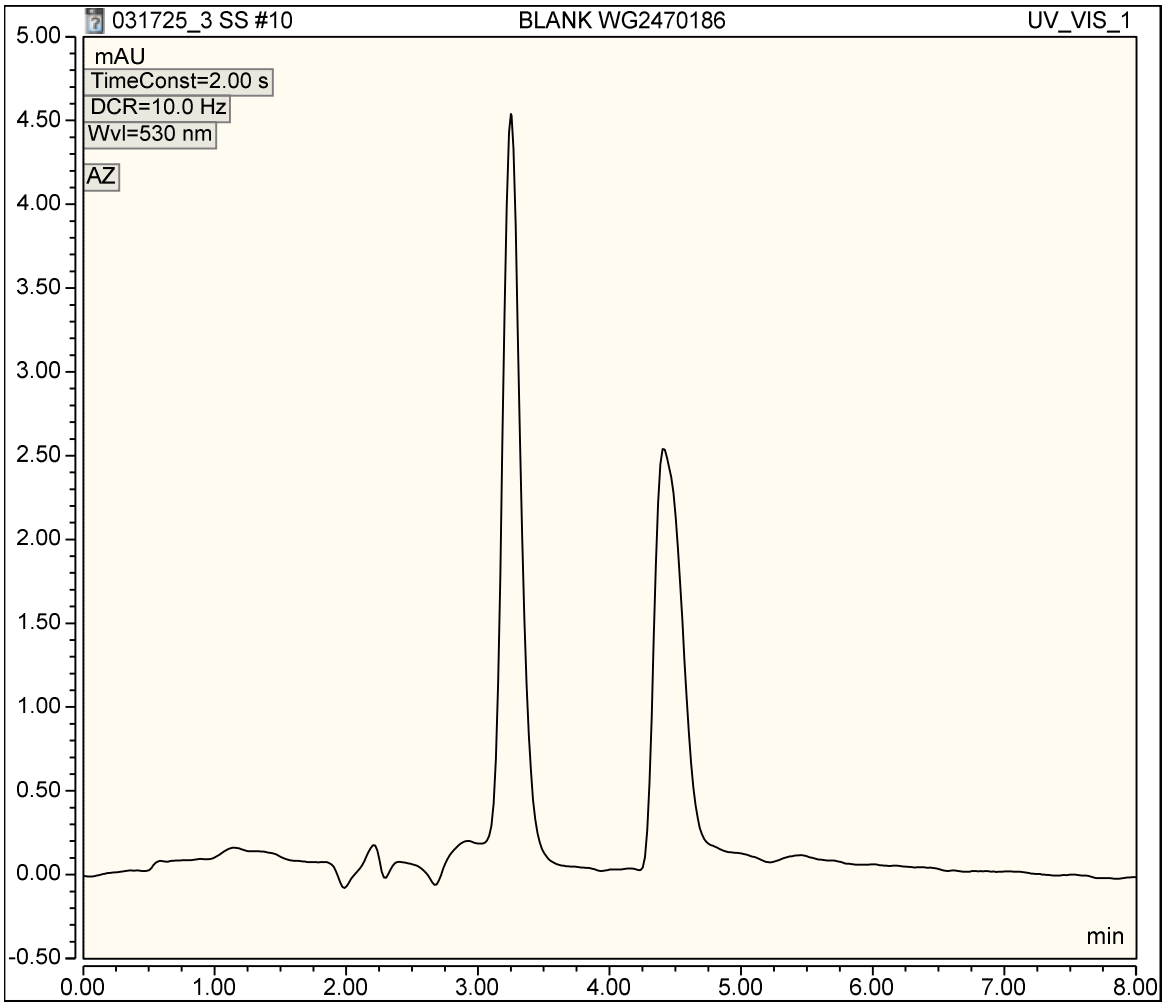
Sample Name:	**BLANK WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 20:02**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.41	CR6SS	BMB*	0.582	2.472	0.0032
		TOTAL:		0.58	2.47	0.00



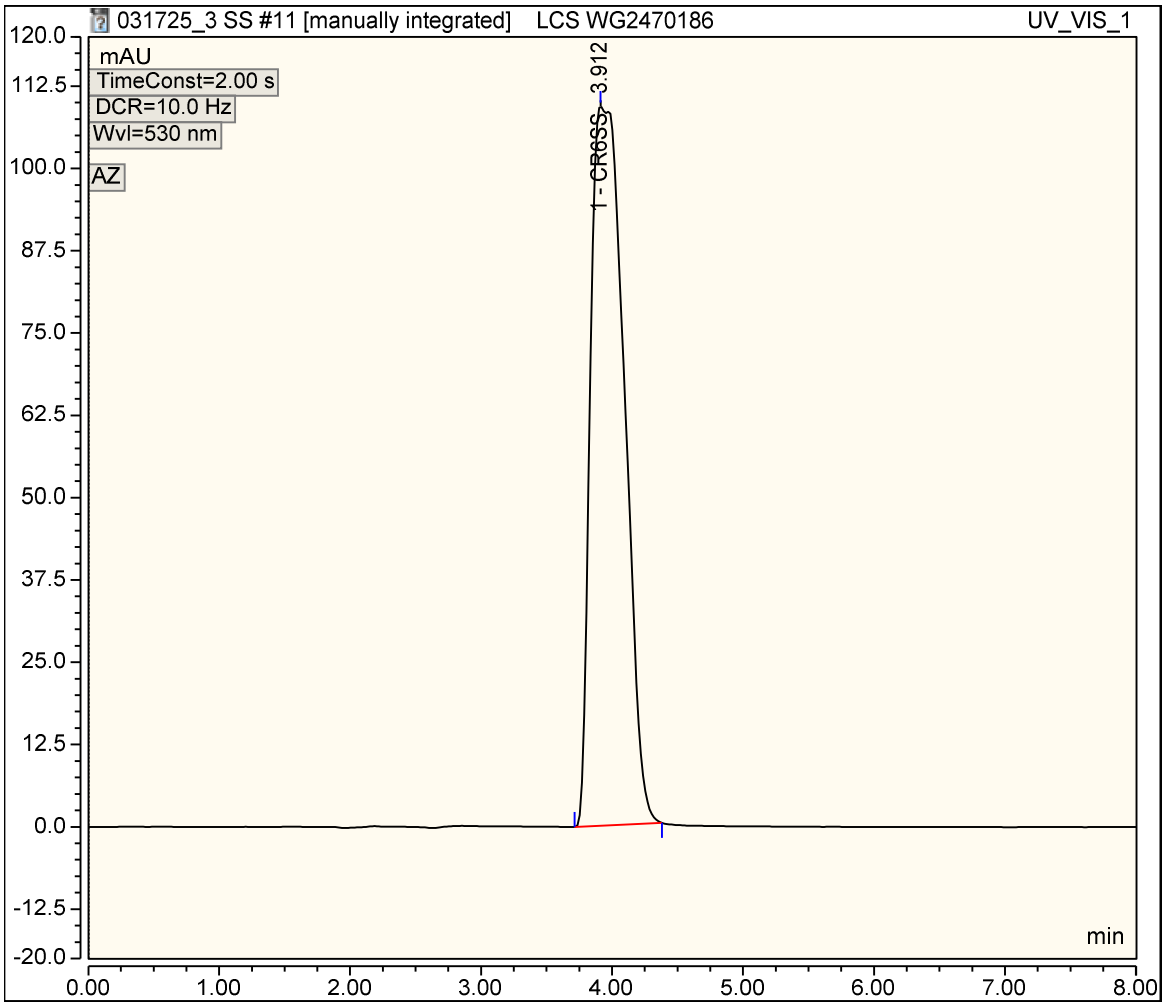
Sample Name:	**BLANK WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 20:02**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**LCS WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 20:11**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.91	CR6SS	BMB*	32.648	109.284	0.2611
		TOTAL:		32.65	109.28	0.26

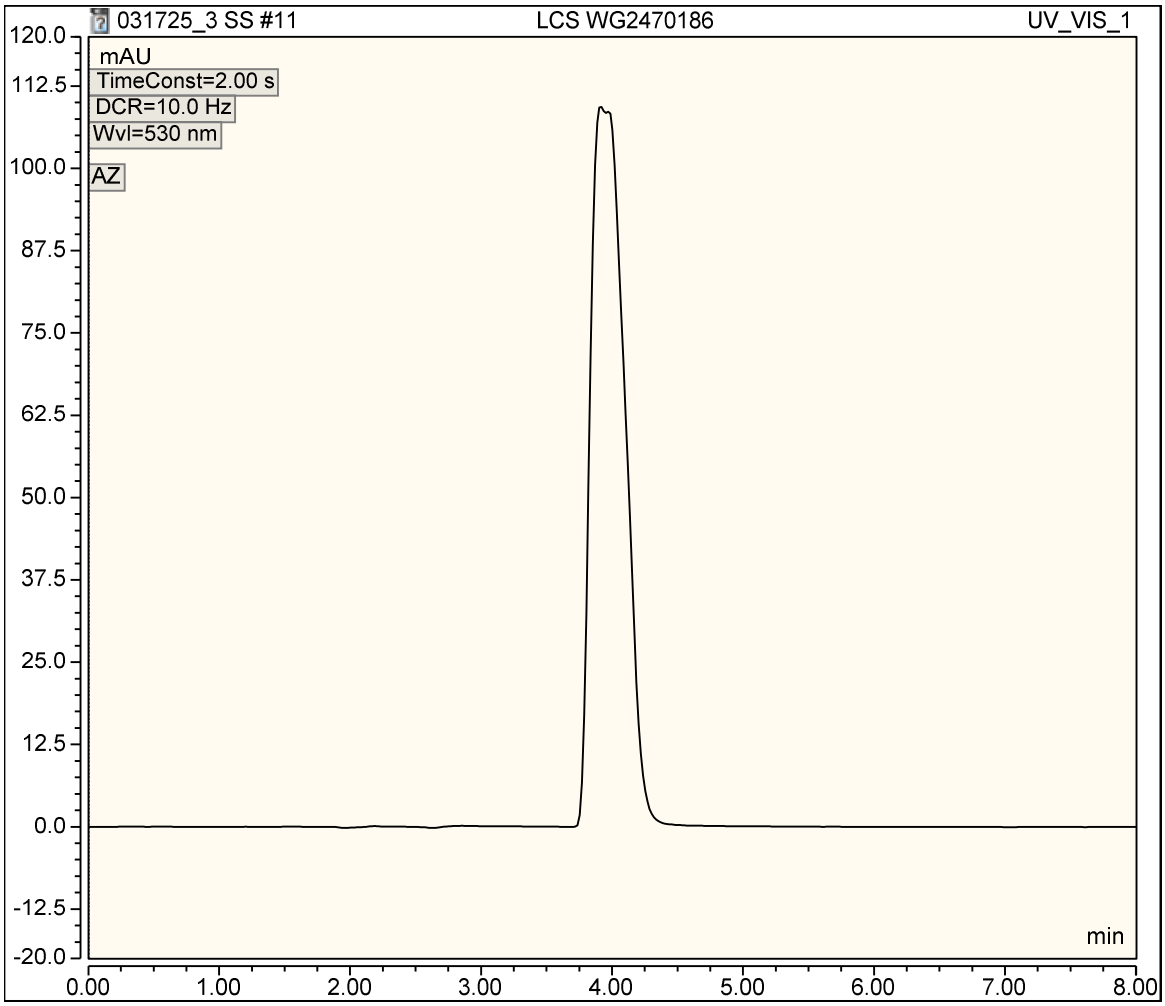


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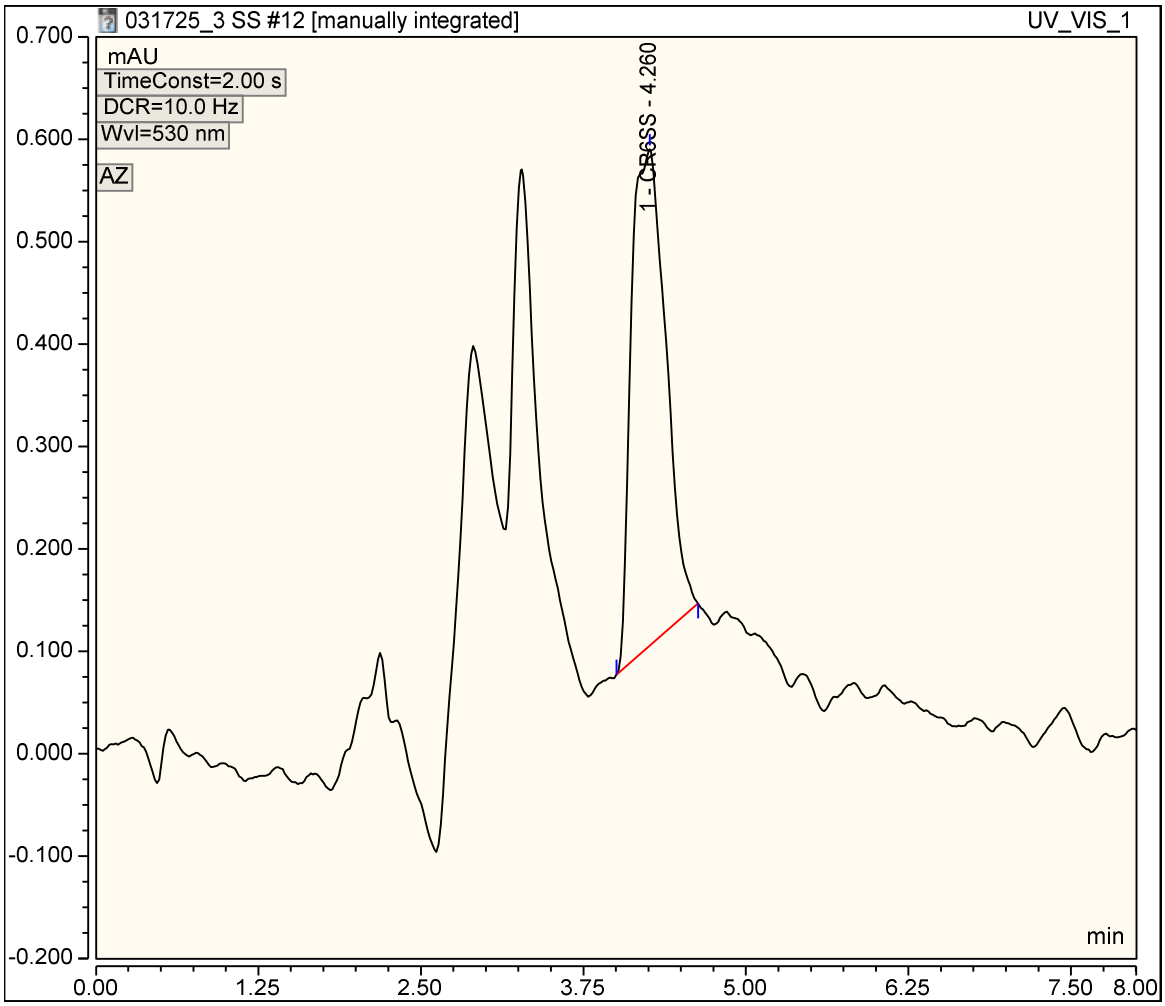
Sample Name:	**LCS WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 20:11**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**L1835568-02 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 20:21**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.26	CR6SS	BMB*	0.149	0.485	n.a.
		TOTAL:		0.15	0.48	0.00

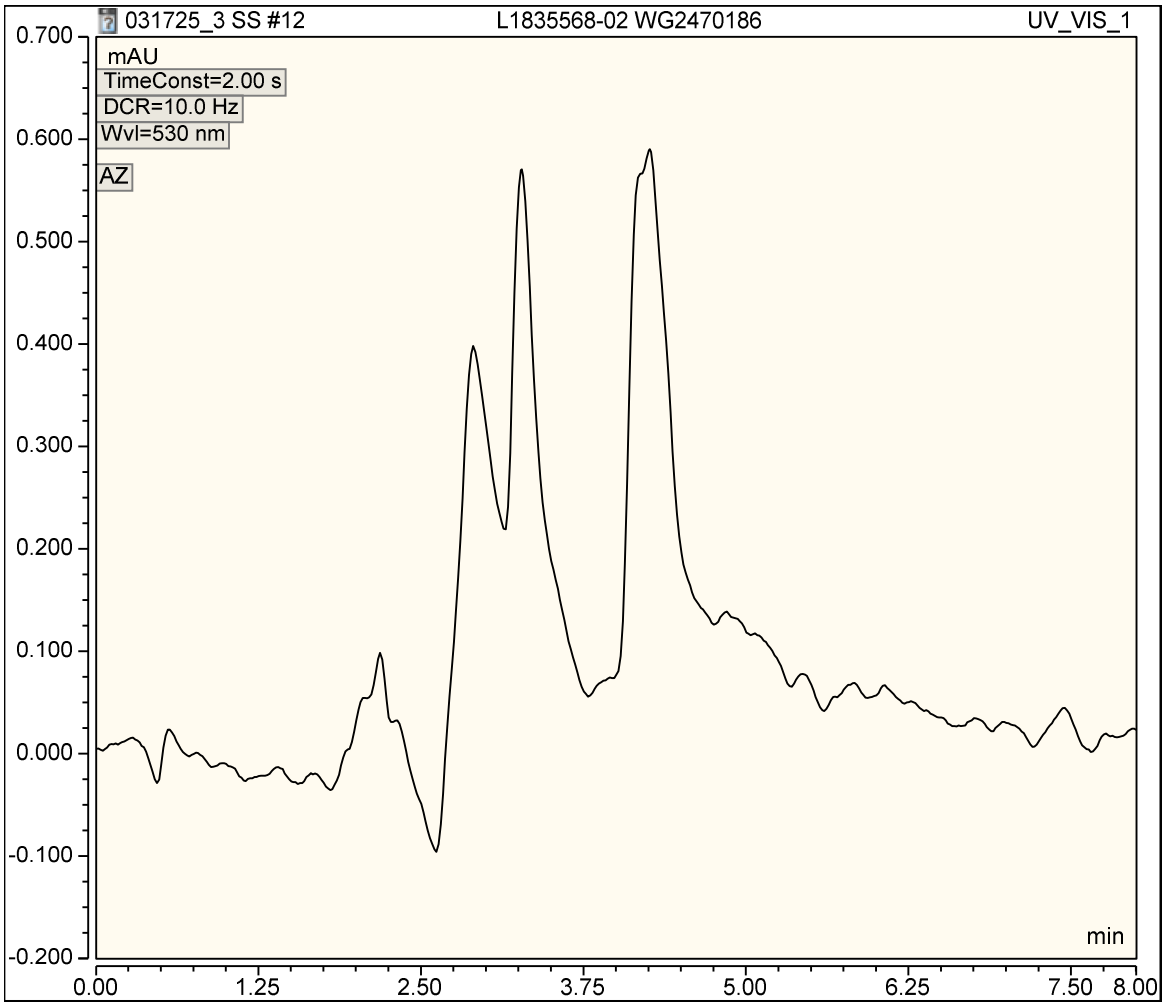


Export for Tree/Integration

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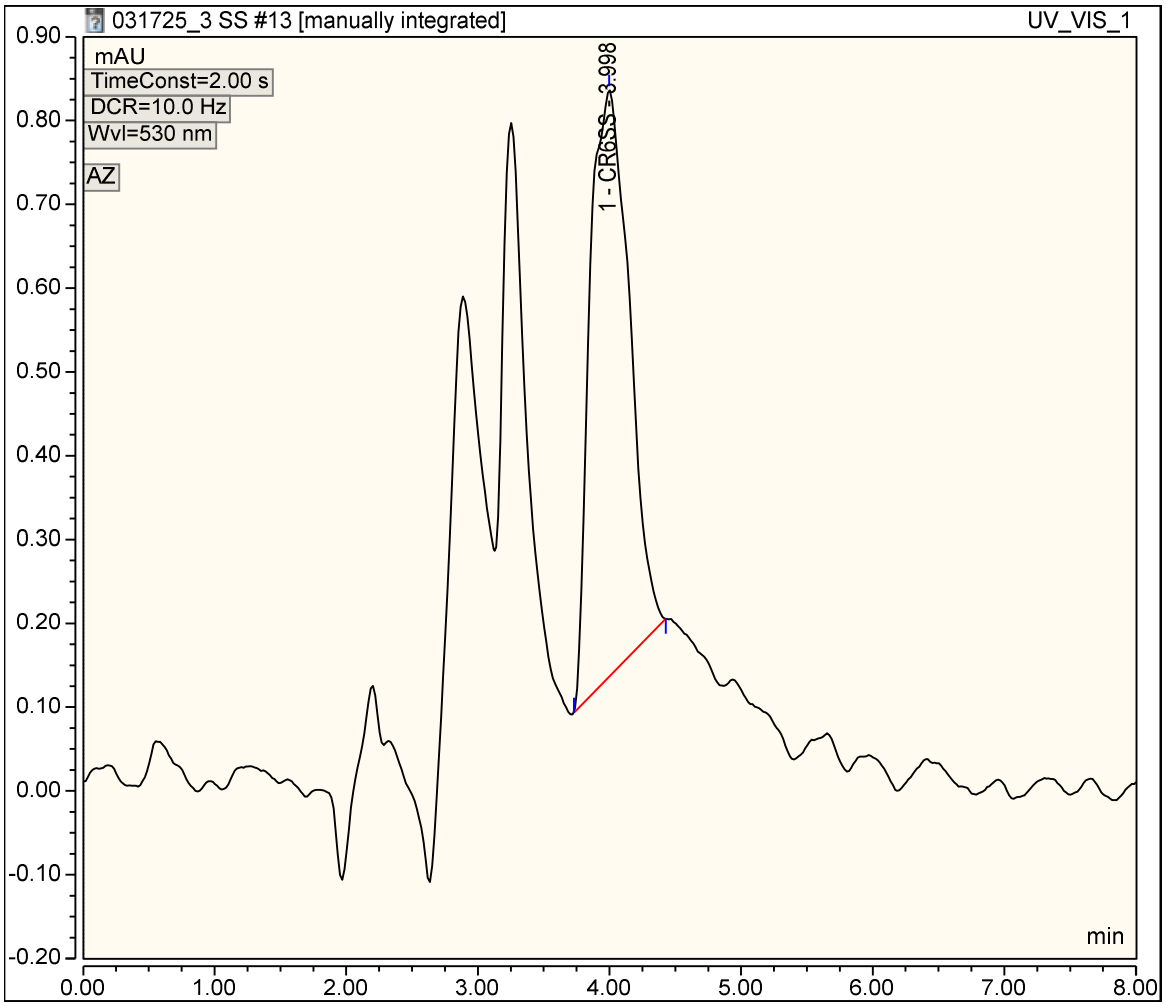
Sample Name:	**L1835568-02 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 20:21**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



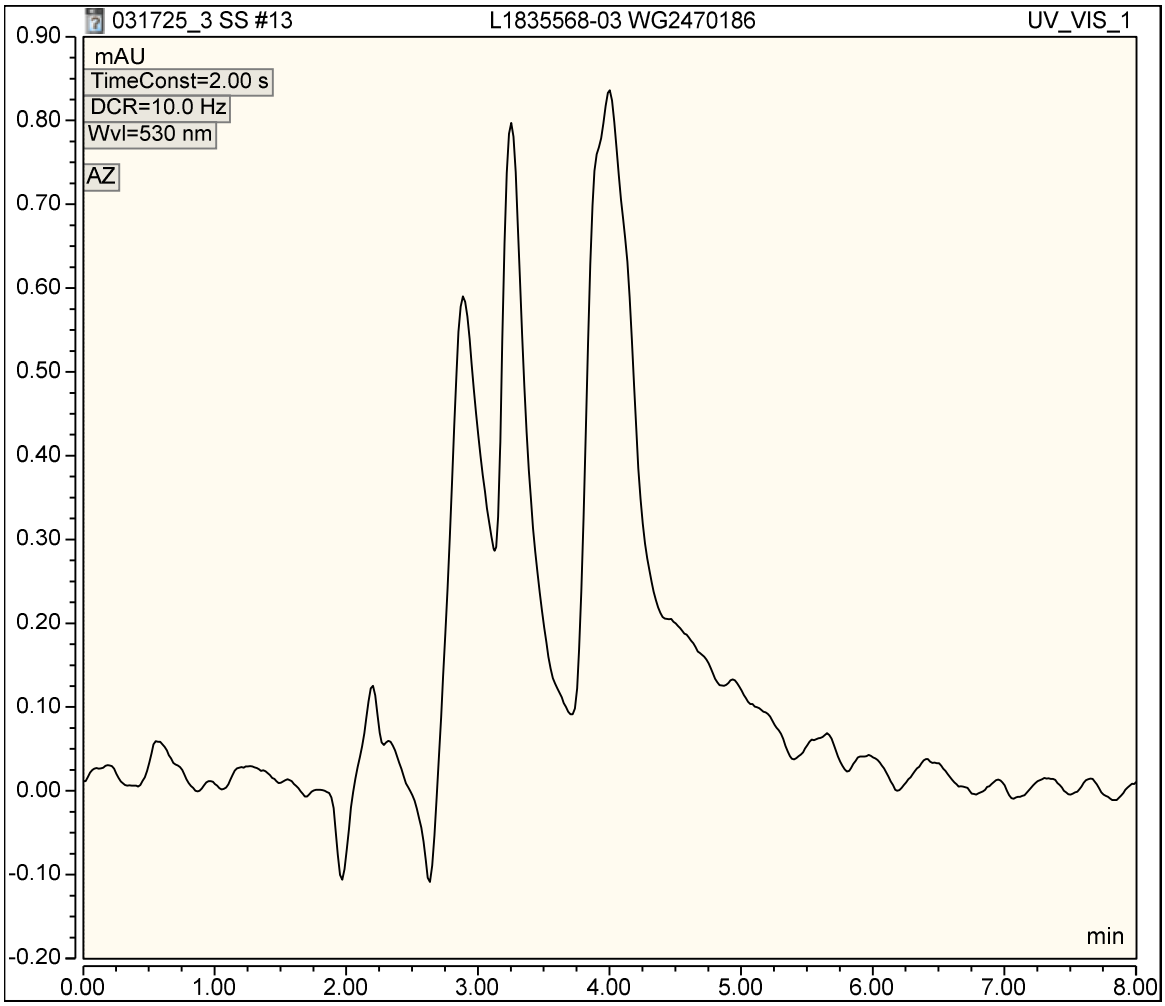
Sample Name:	**L1835568-03 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 20:31**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.00	CR6SS	BMB*	0.243	0.700	0.0004
		TOTAL:		0.24	0.70	0.00



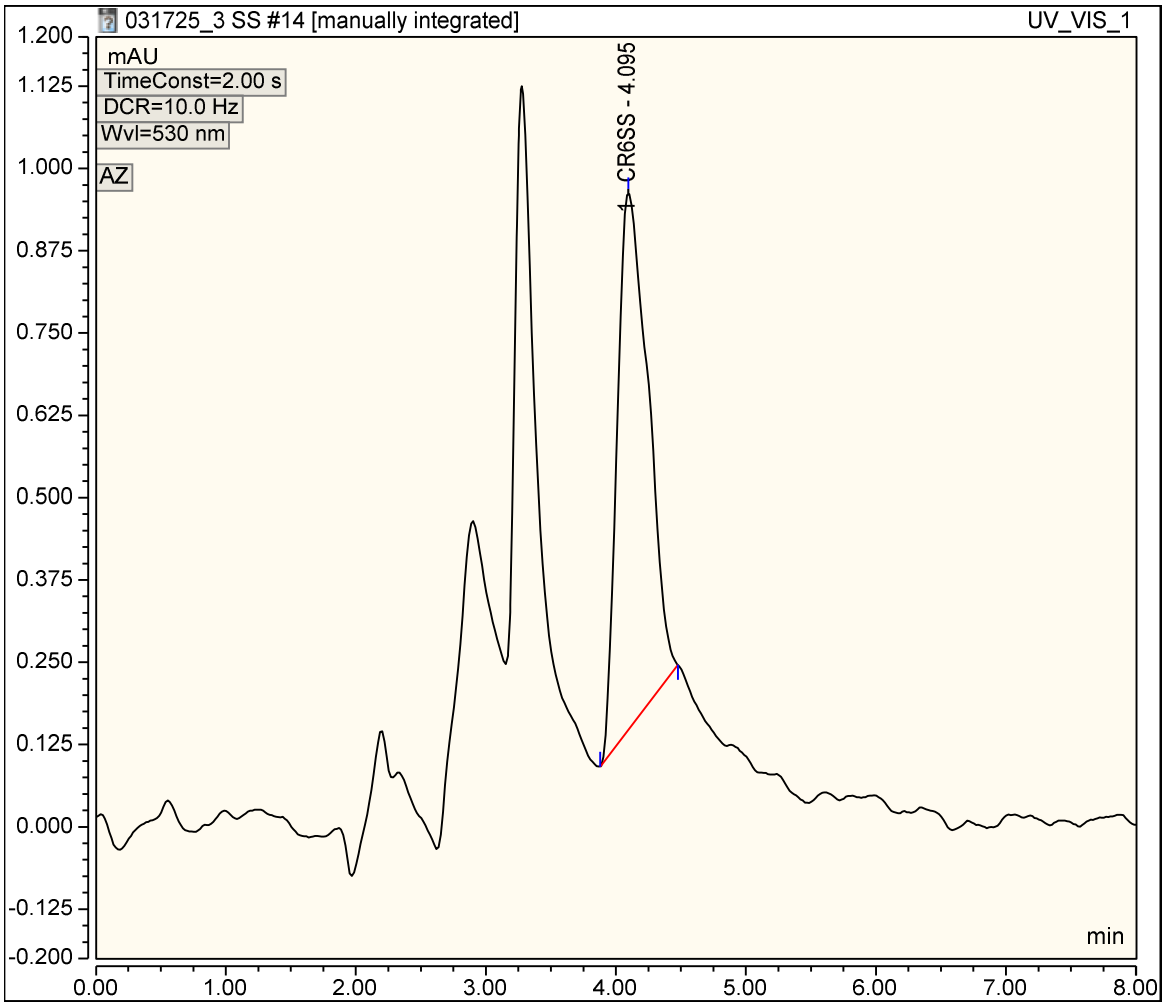
Sample Name:	**L1835568-03 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 20:31**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**L1835568-04 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 20:40**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.09	CR6SS	BMB*	0.223	0.816	0.0003
		TOTAL:		0.22	0.82	0.00

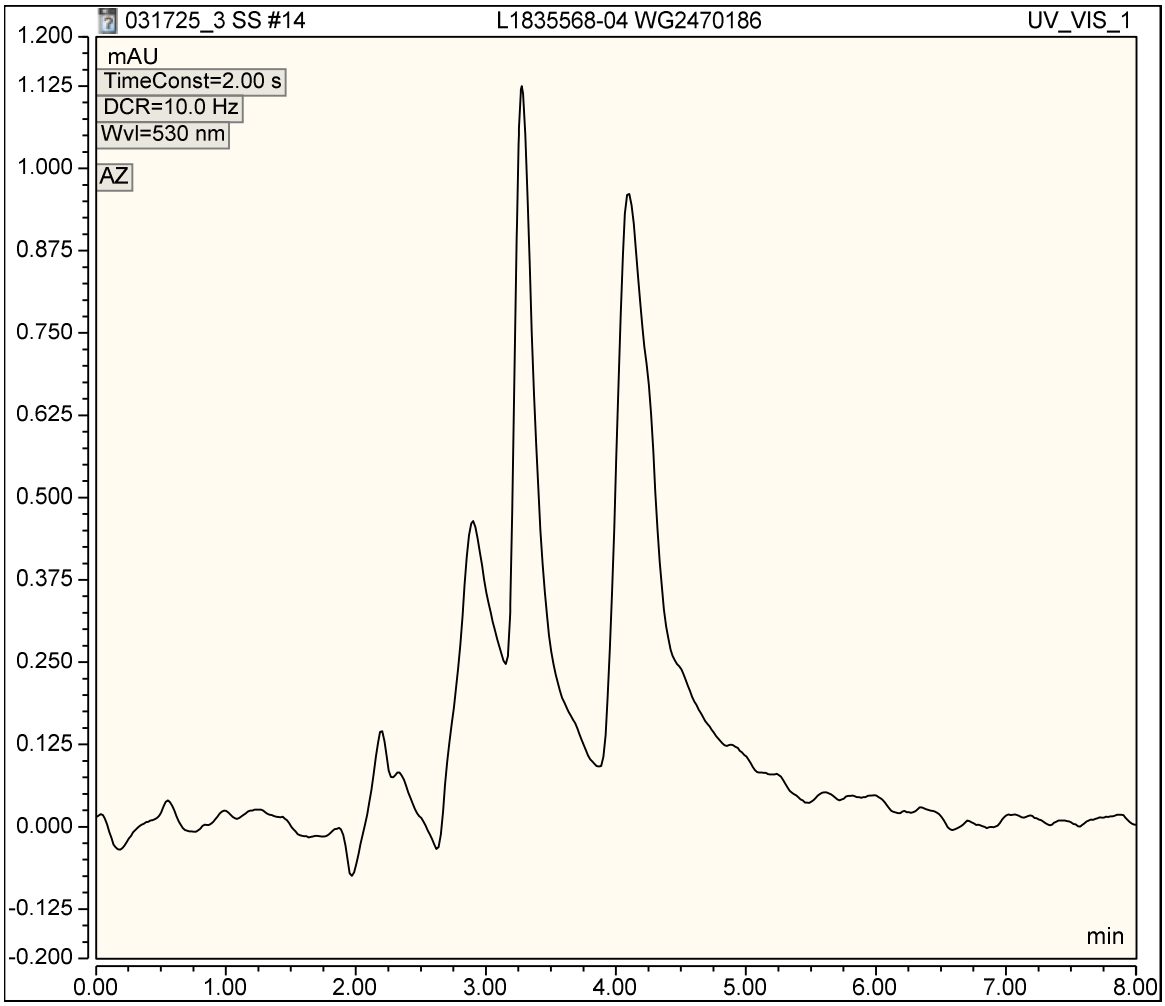


Export for Tree/Integration

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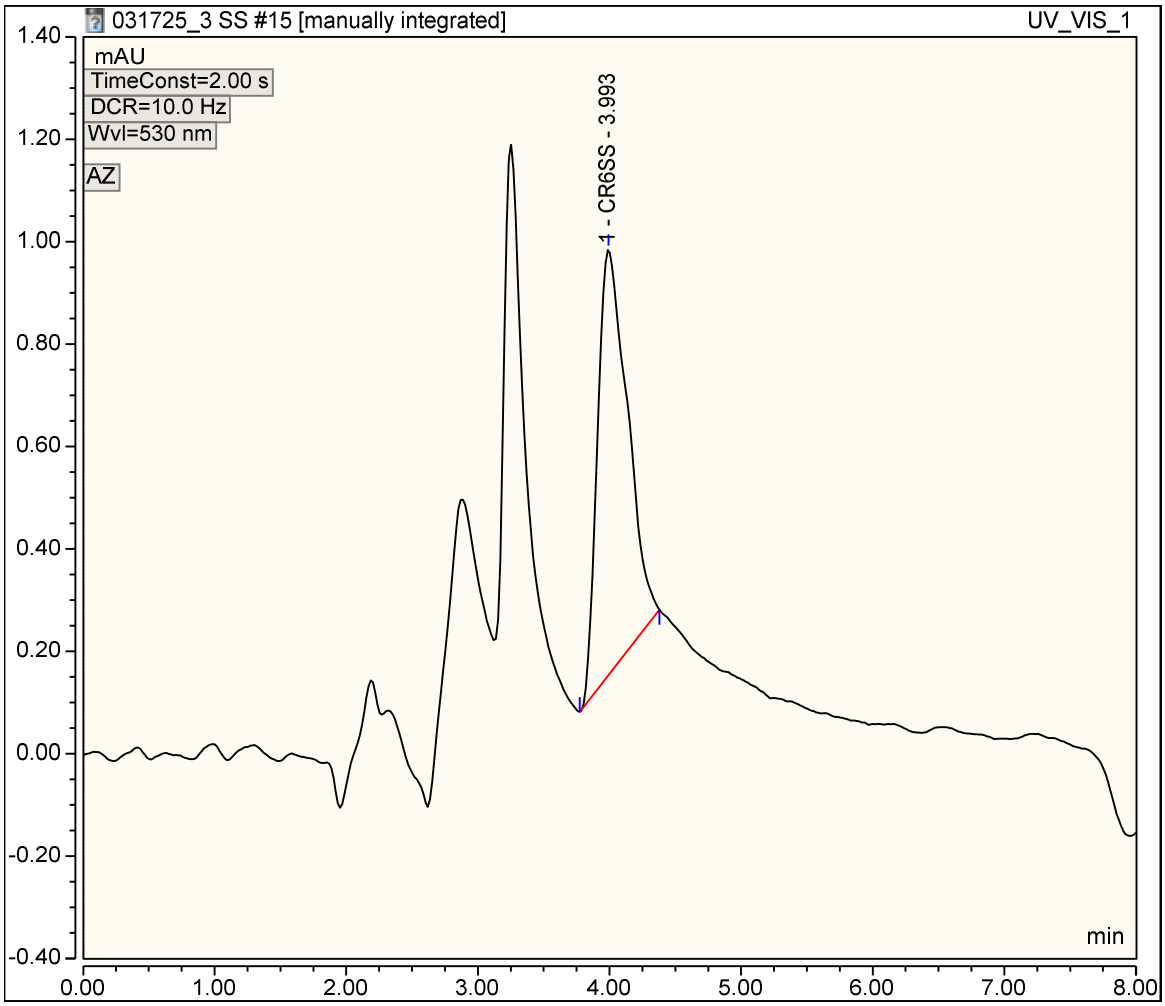
Sample Name:	**L1835568-04 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 20:40**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



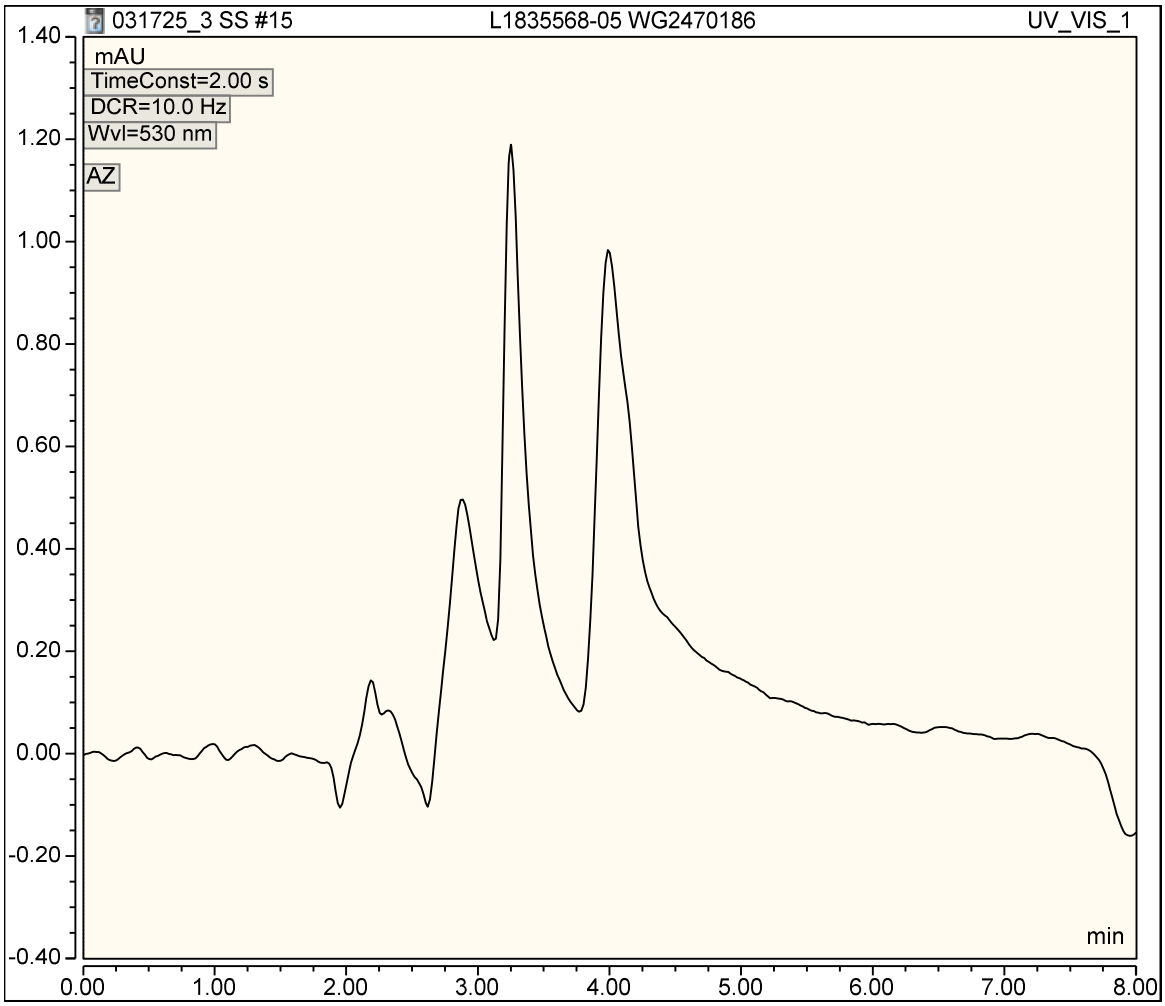
Sample Name:	**L1835568-05 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 20:50**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.99	CR6SS	BMB*	0.219	0.832	0.0002
		TOTAL:		0.22	0.83	0.00



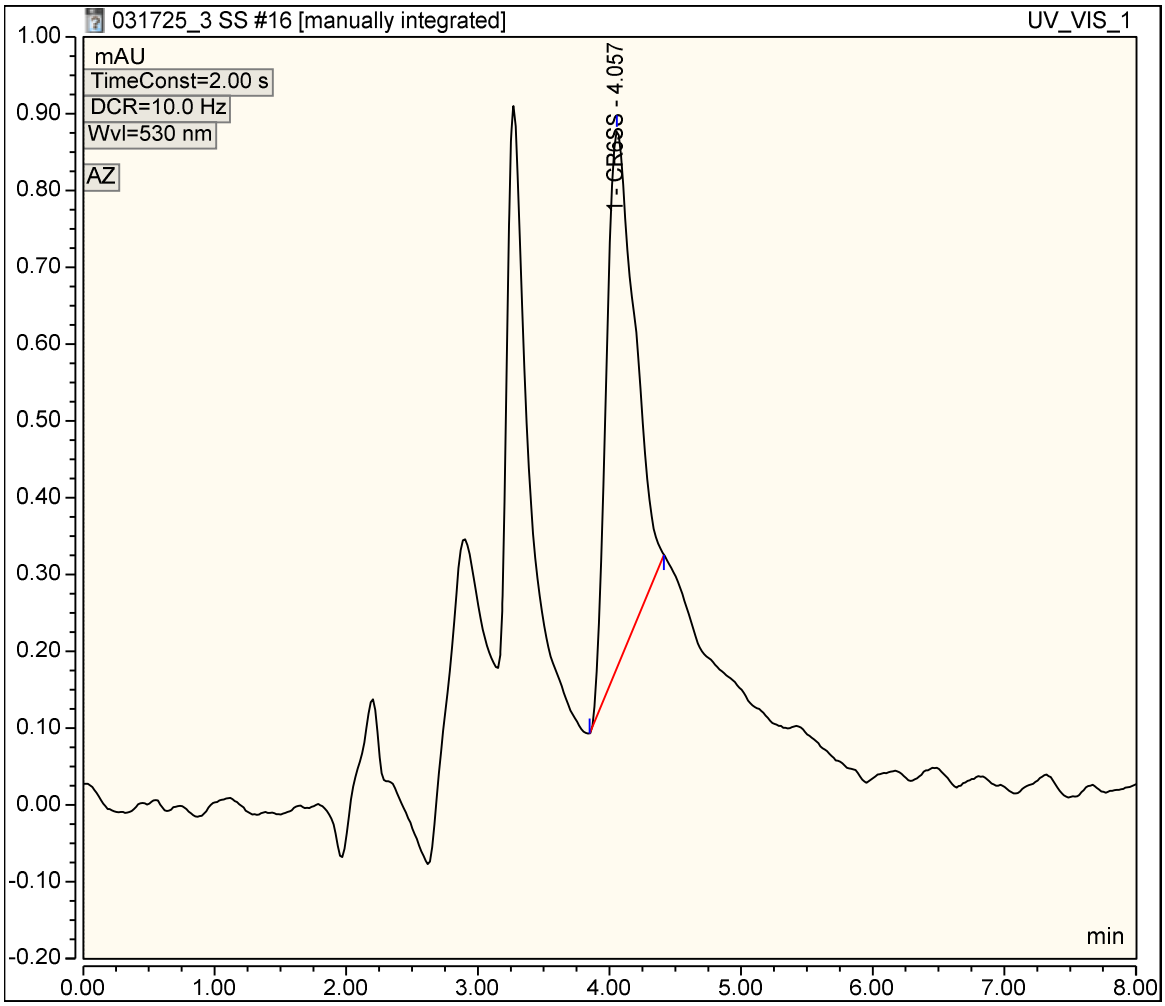
Sample Name:	**L1835568-05 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 20:50**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



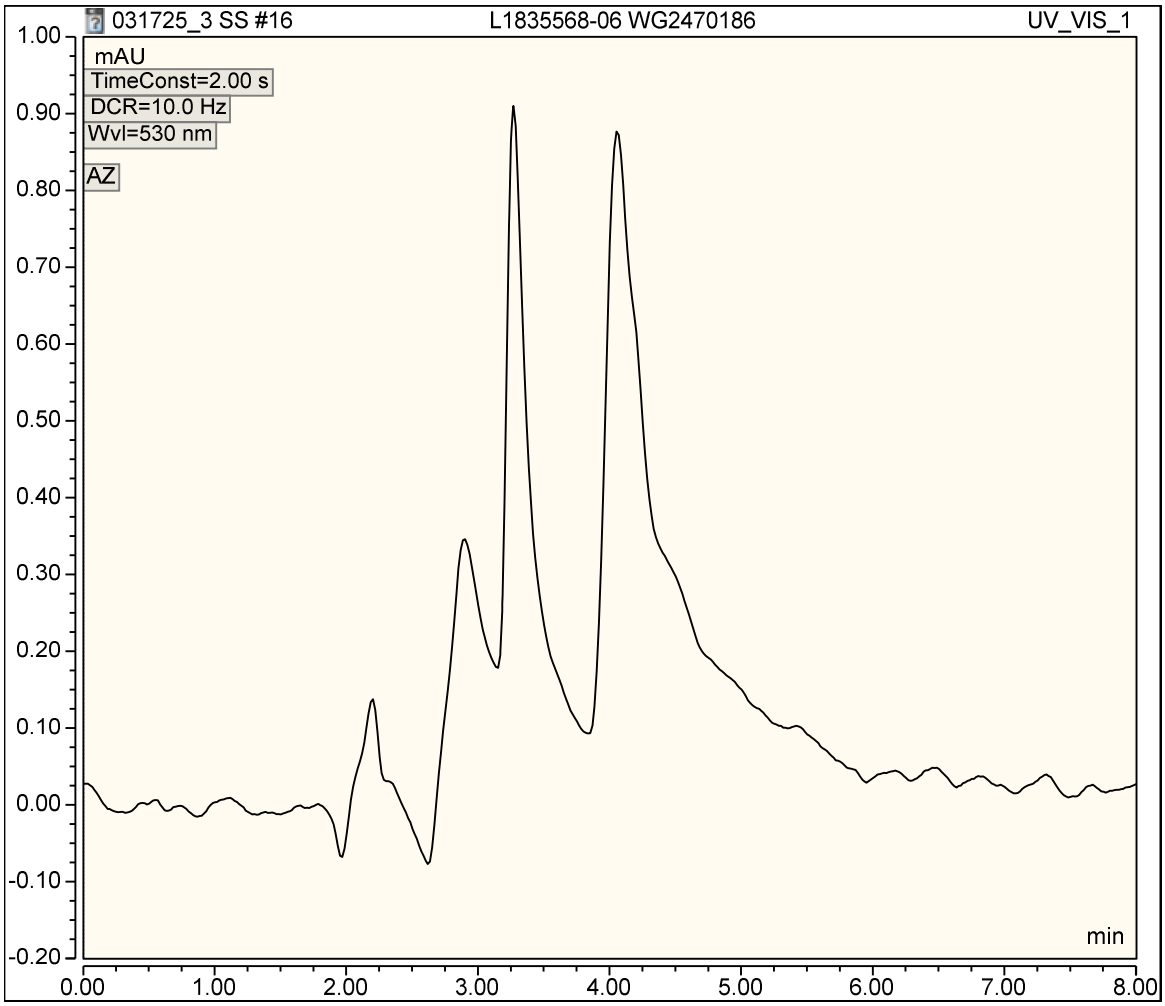
Sample Name:	**L1835568-06 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 21:00**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.06	CR6SS	BMB*	0.174	0.699	n.a.
		TOTAL:		0.17	0.70	0.00



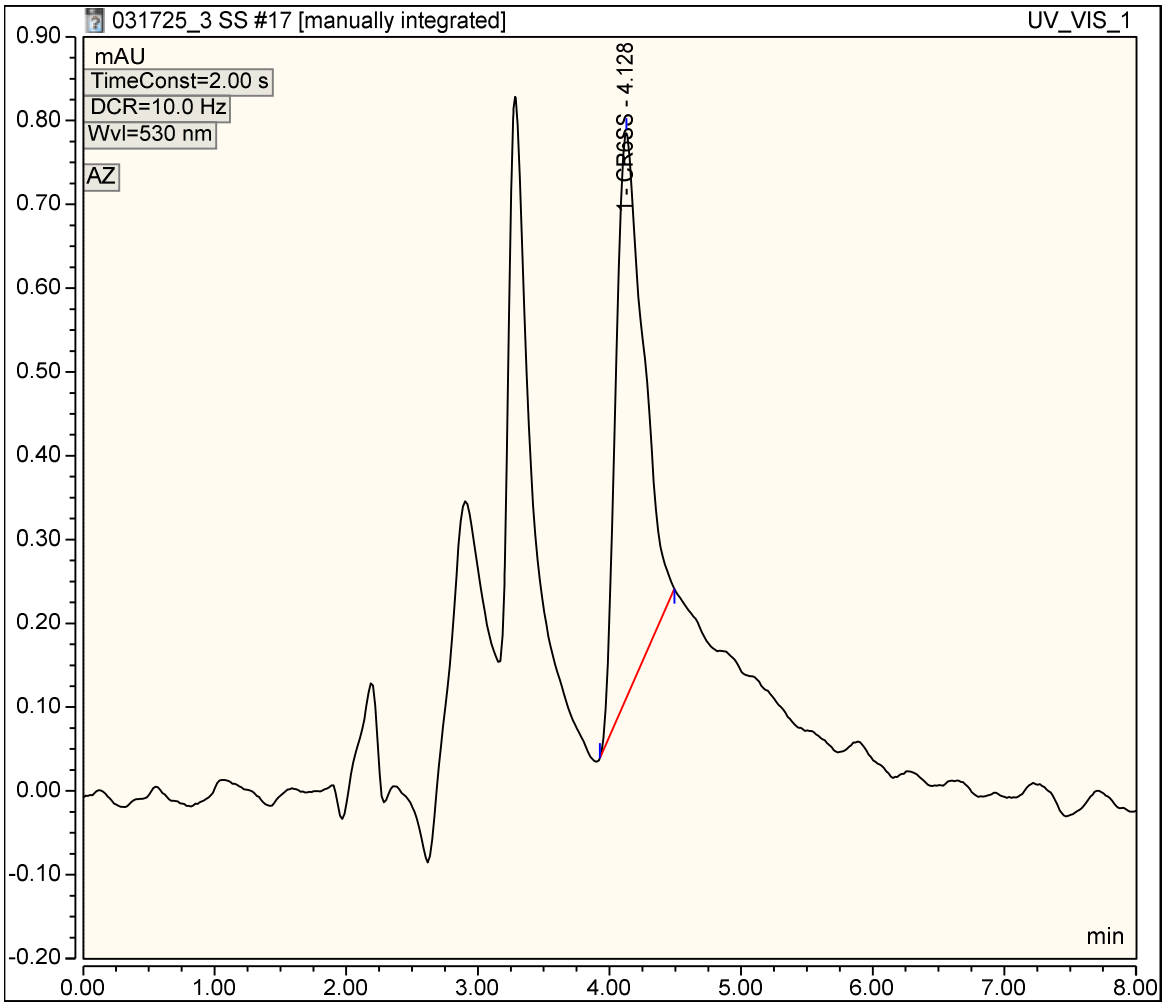
Sample Name:	**L1835568-06 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 21:00**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**DUP WG2470186 L1835568-06**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 21:09**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.13	CR6SS	BMB*	0.165	0.674	n.a.
		TOTAL:		0.16	0.67	0.00

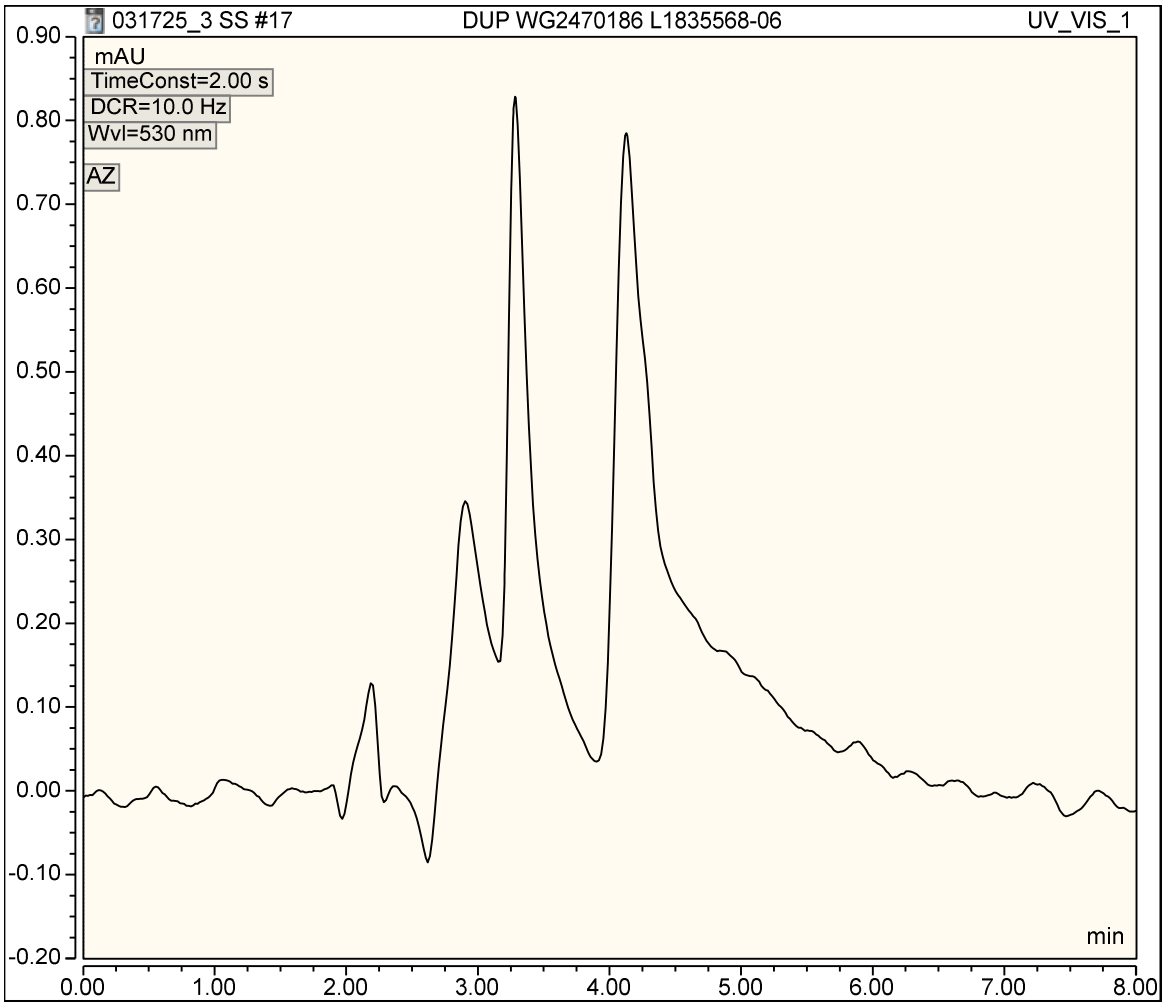


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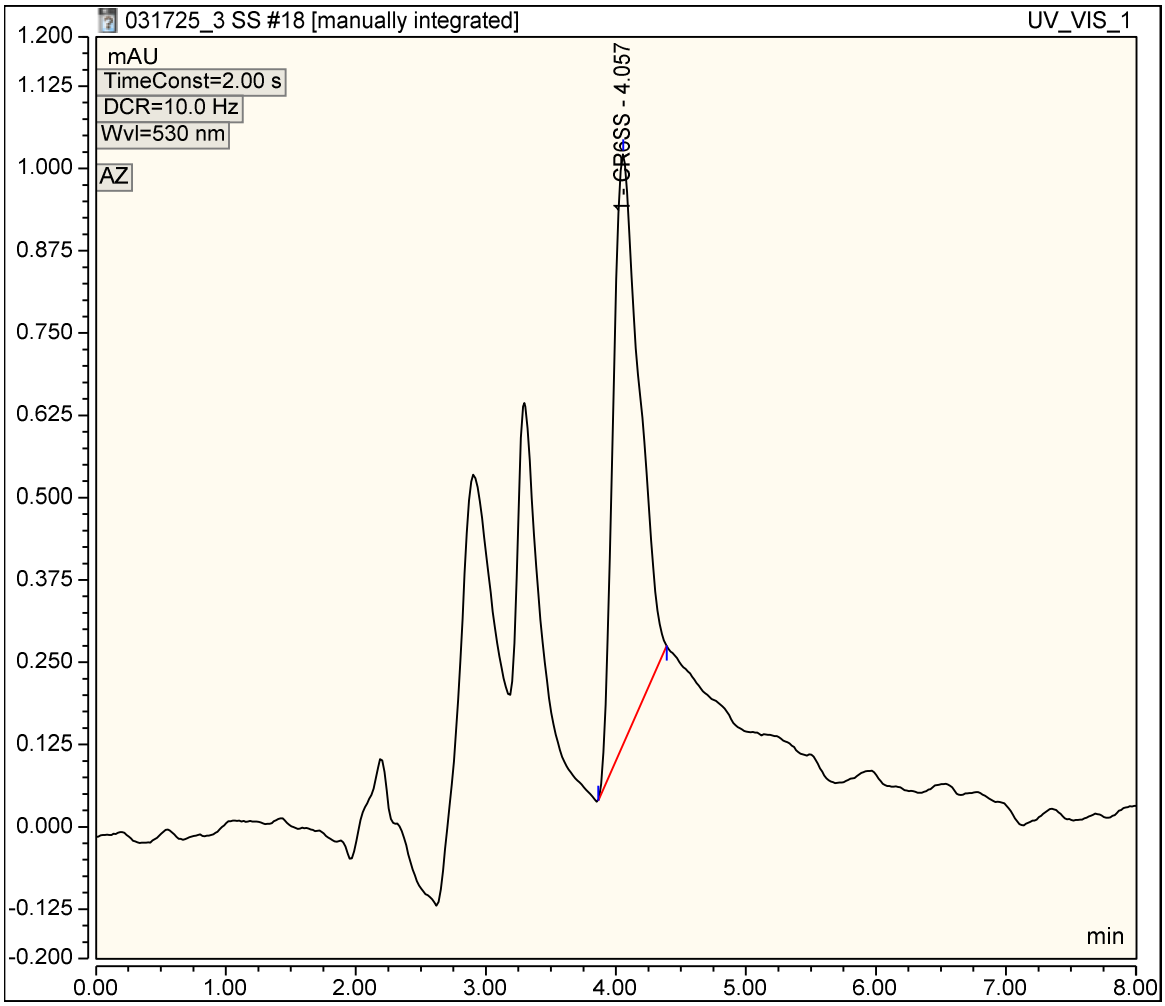
Sample Name:	**DUP WG2470186 L1835568-06**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 21:09**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



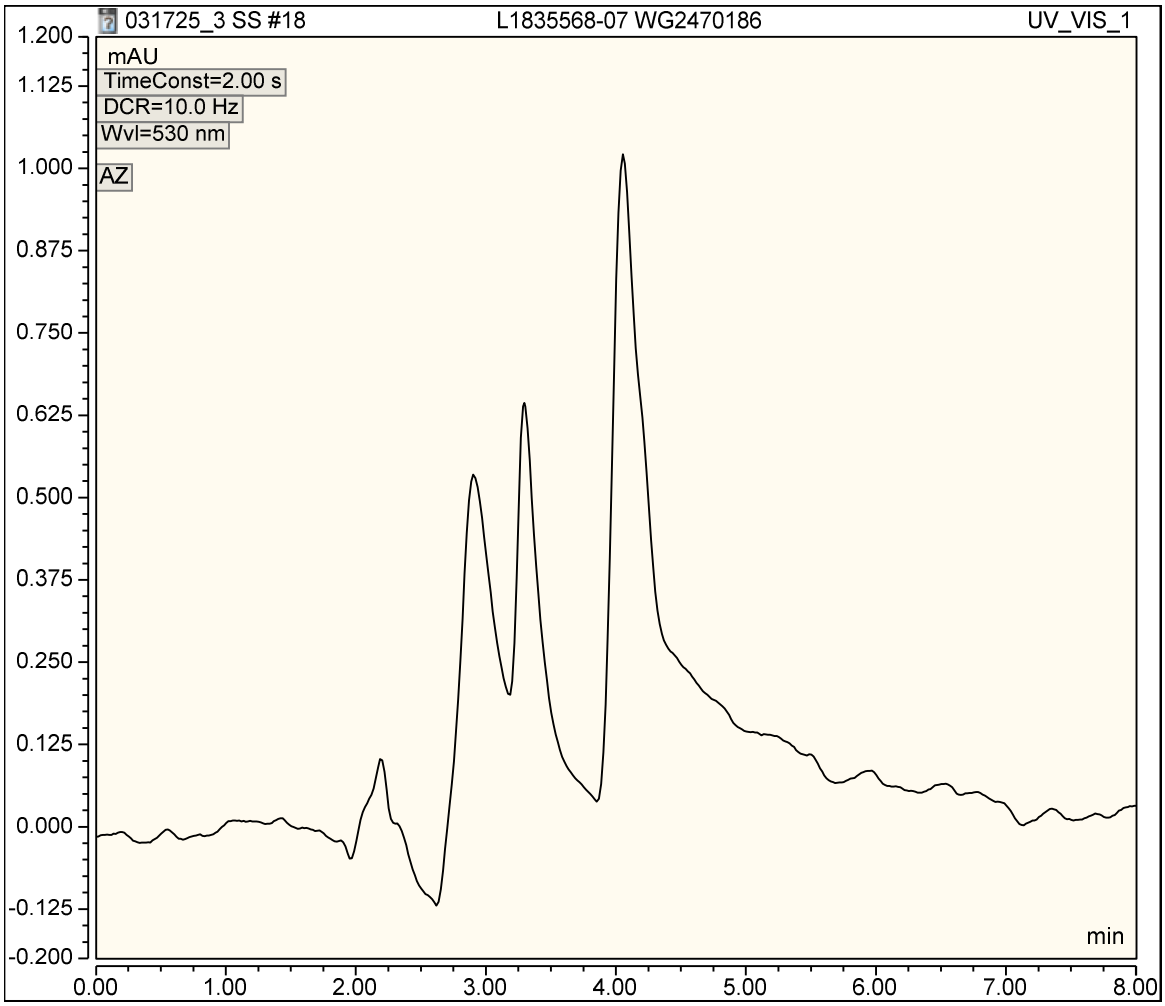
Sample Name:	**L1835568-07 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 21:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.06	CR6SS	BMB*	0.209	0.896	0.0002
		TOTAL:		0.21	0.90	0.00



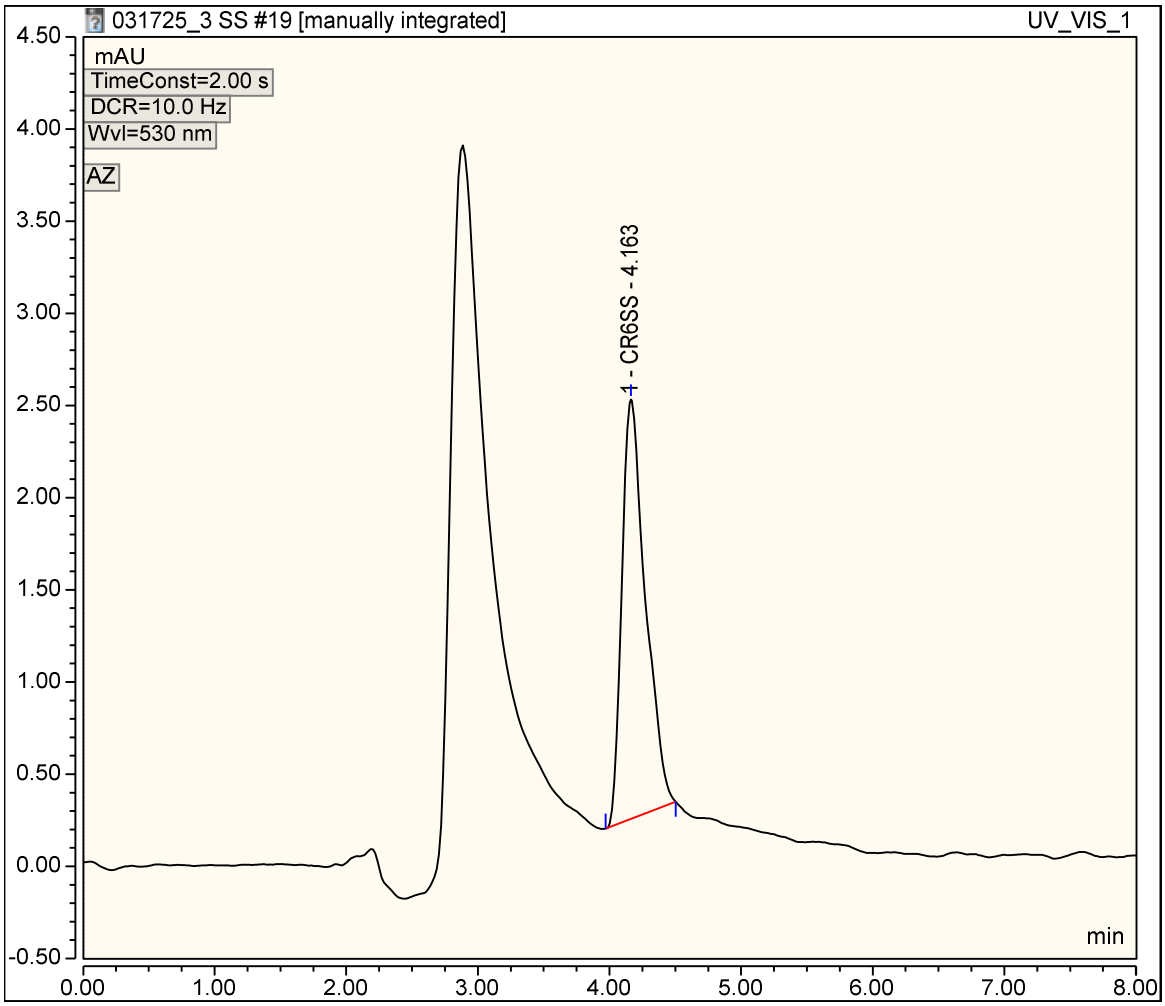
Sample Name:	**L1835568-07 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 21:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



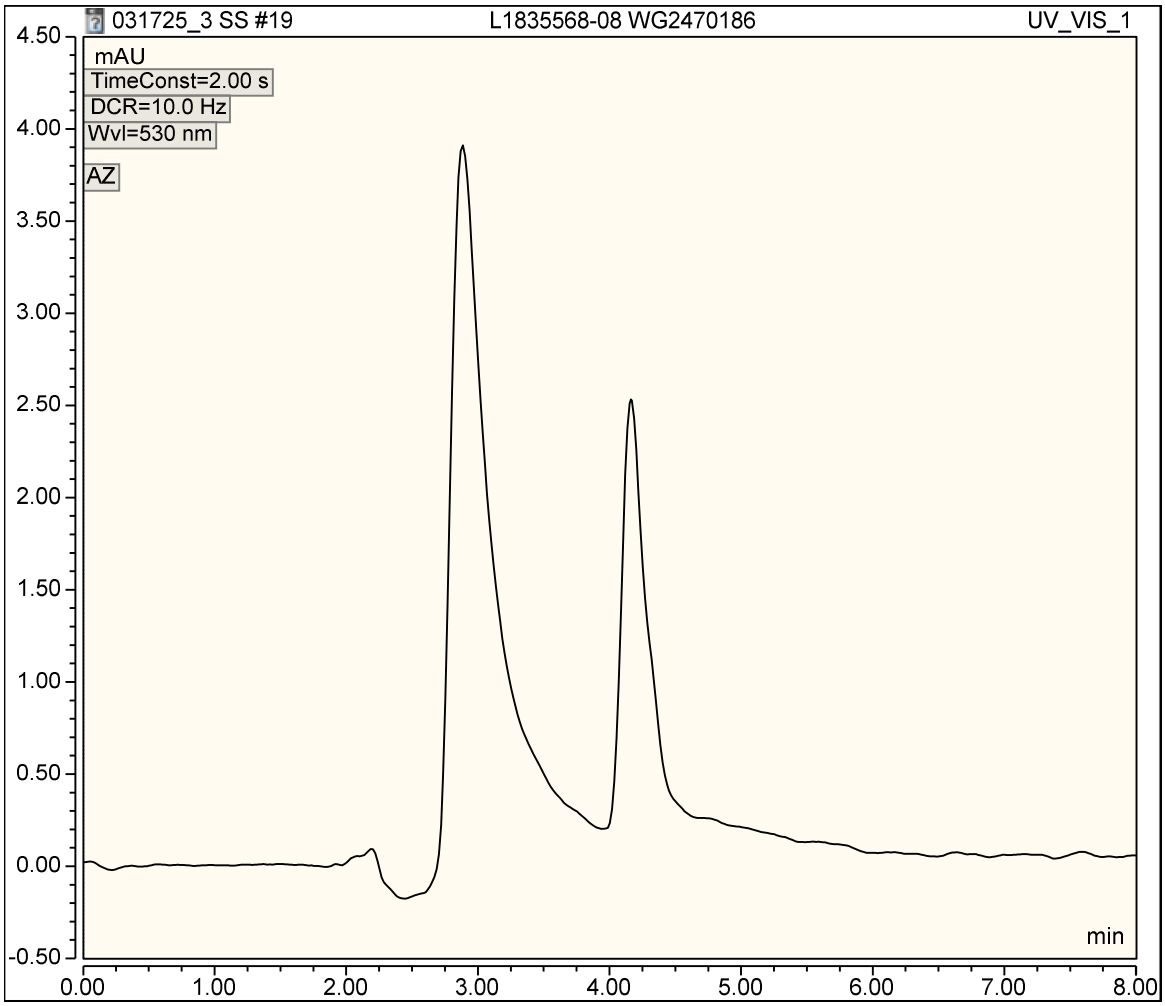
Sample Name:	**L1835568-08 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 21:28**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.16	CR6SS	BMB*	0.472	2.275	0.0023
		TOTAL:		0.47	2.28	0.00



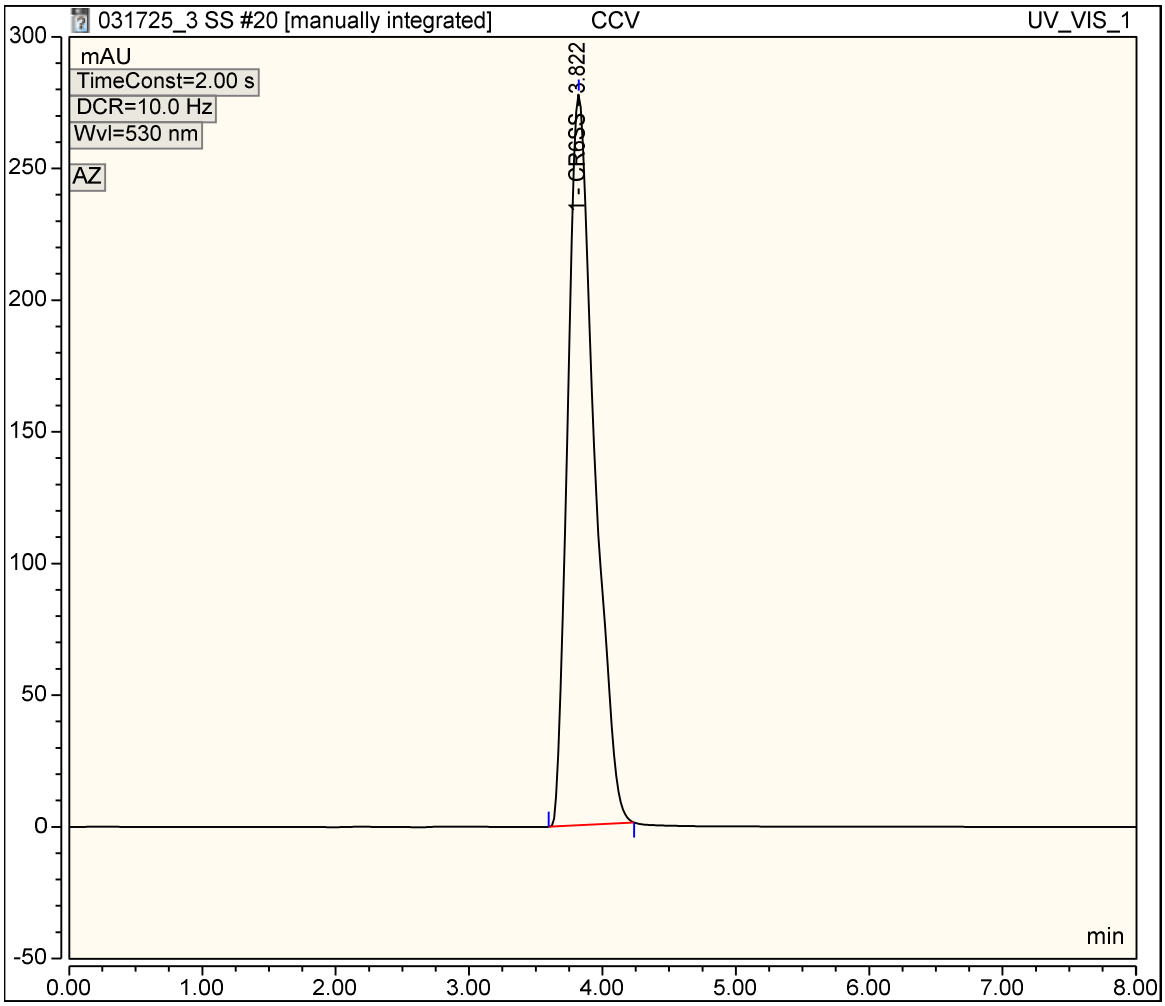
Sample Name:	**L1835568-08 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 21:28**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



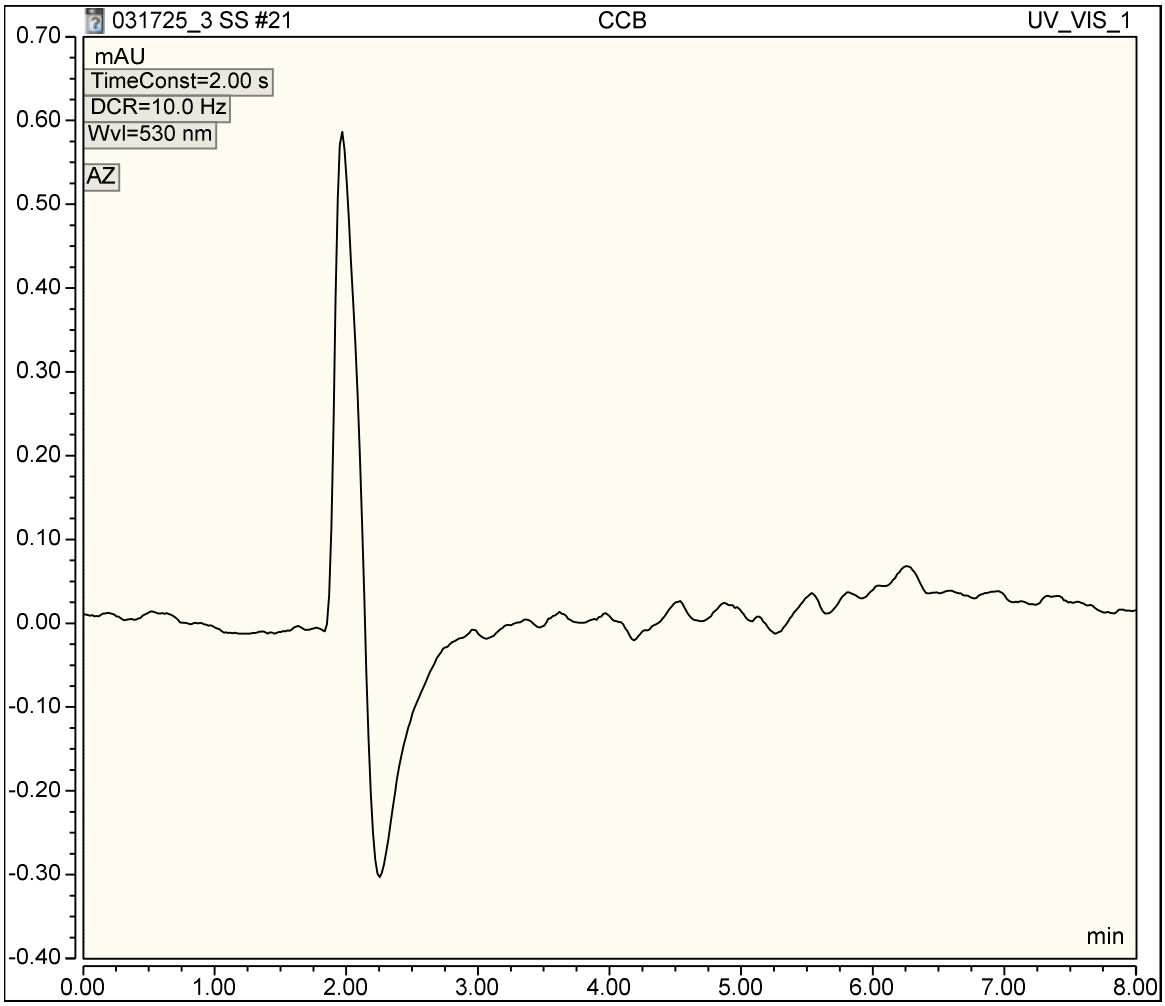
Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 21:38**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.82	CR6SS	BMB*	63.974	277.528	0.5132
		TOTAL:		63.97	277.53	0.51



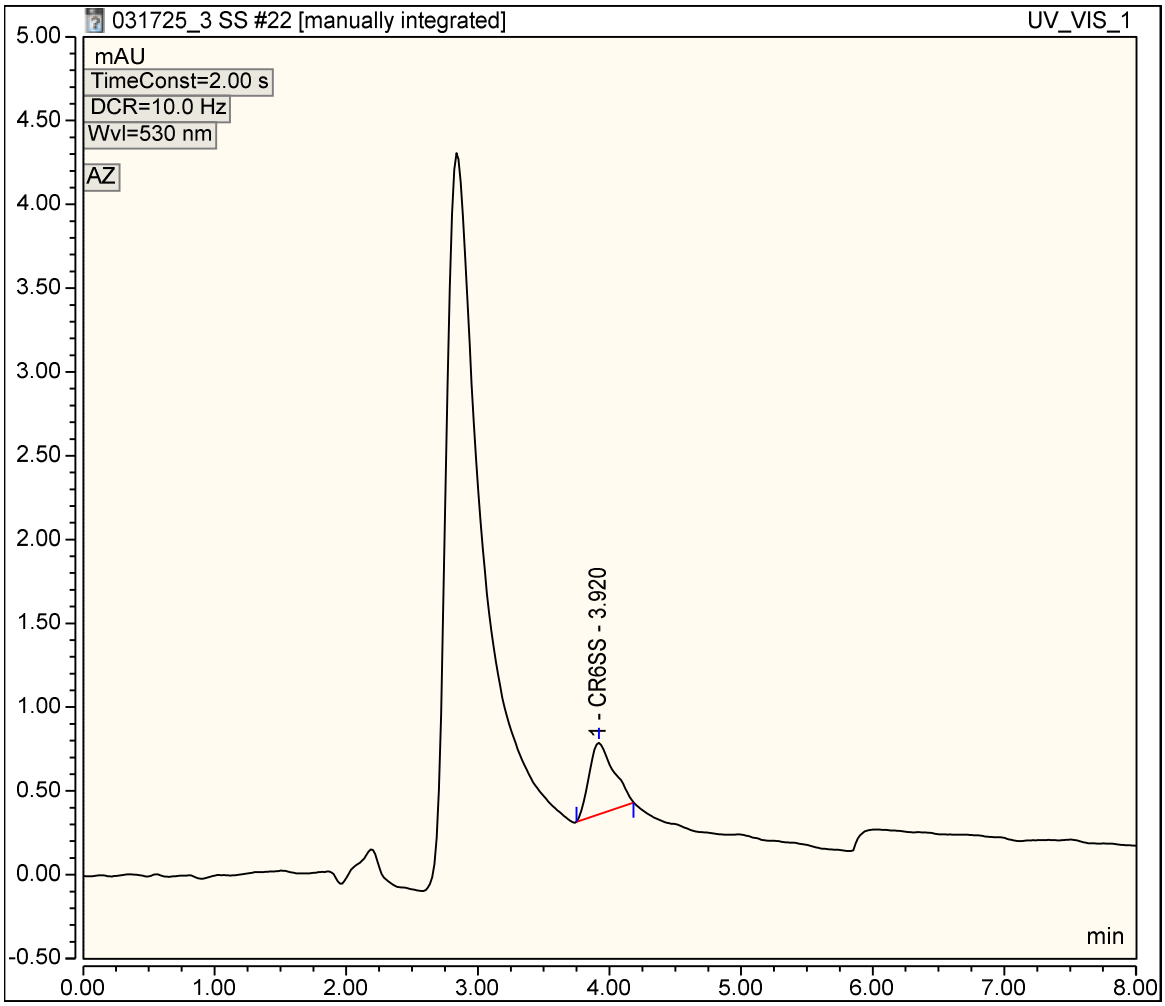
Sample Name:	**CCB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 21:48**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



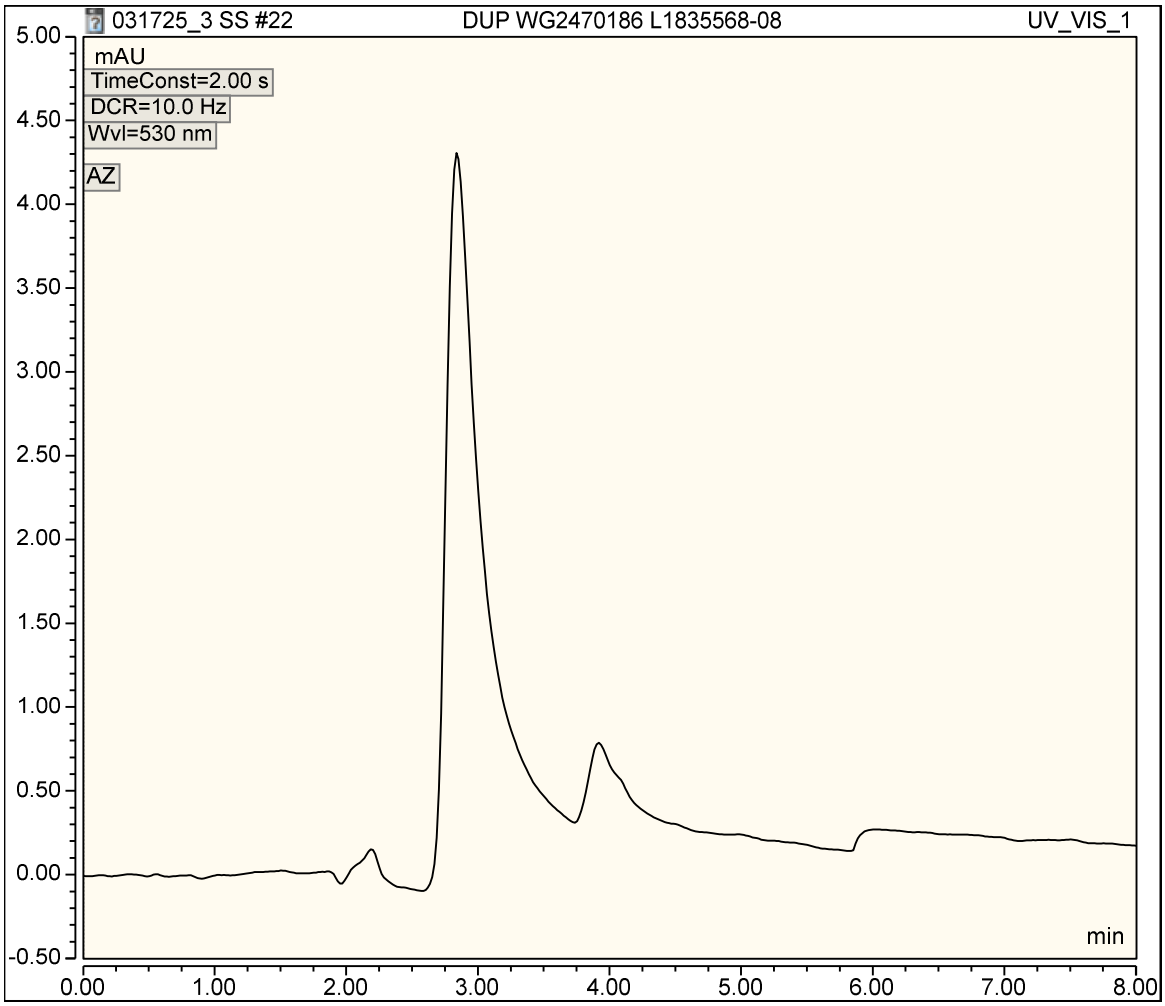
Sample Name:	**DUP WG2470186 L1835568-08**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 22:28**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.92	CR6SS	BMB*	0.092	0.426	n.a.
		TOTAL:		0.09	0.43	0.00



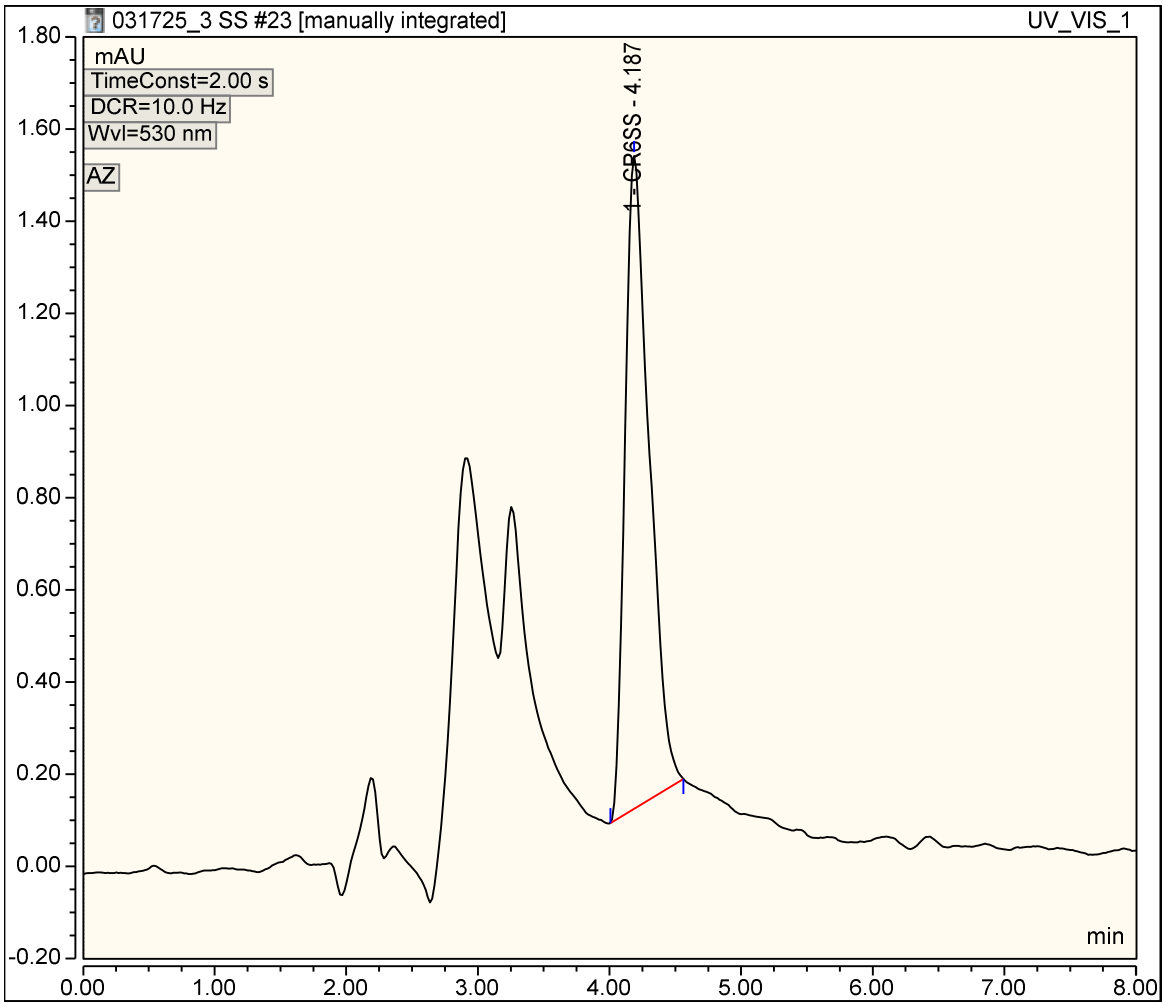
Sample Name:	**DUP WG2470186 L1835568-08**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 22:28**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



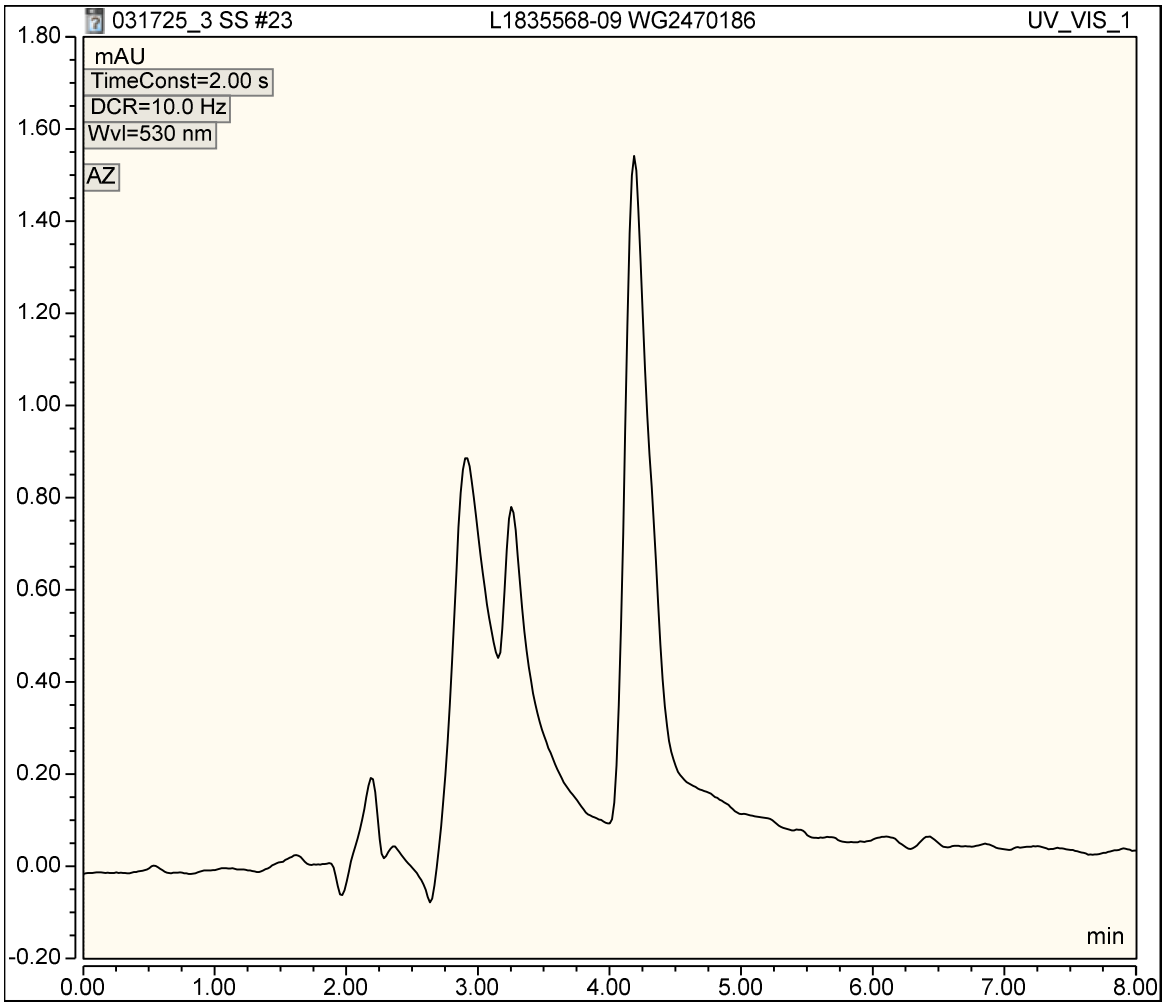
Sample Name:	**L1835568-09 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 22:38**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.19	CR6SS	BMB*	0.304	1.417	0.0009
		TOTAL:		0.30	1.42	0.00



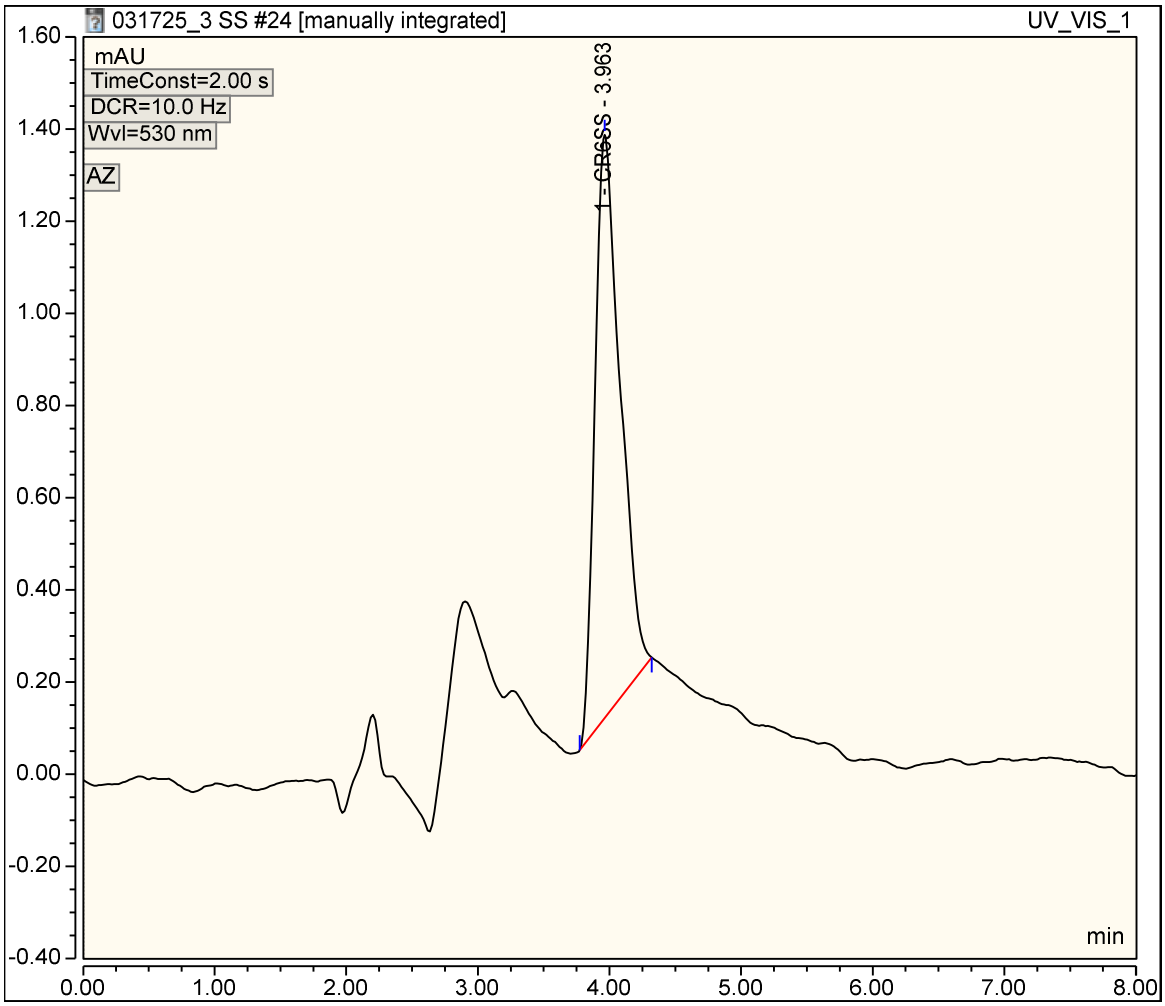
Sample Name:	**L1835568-09 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 22:38**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



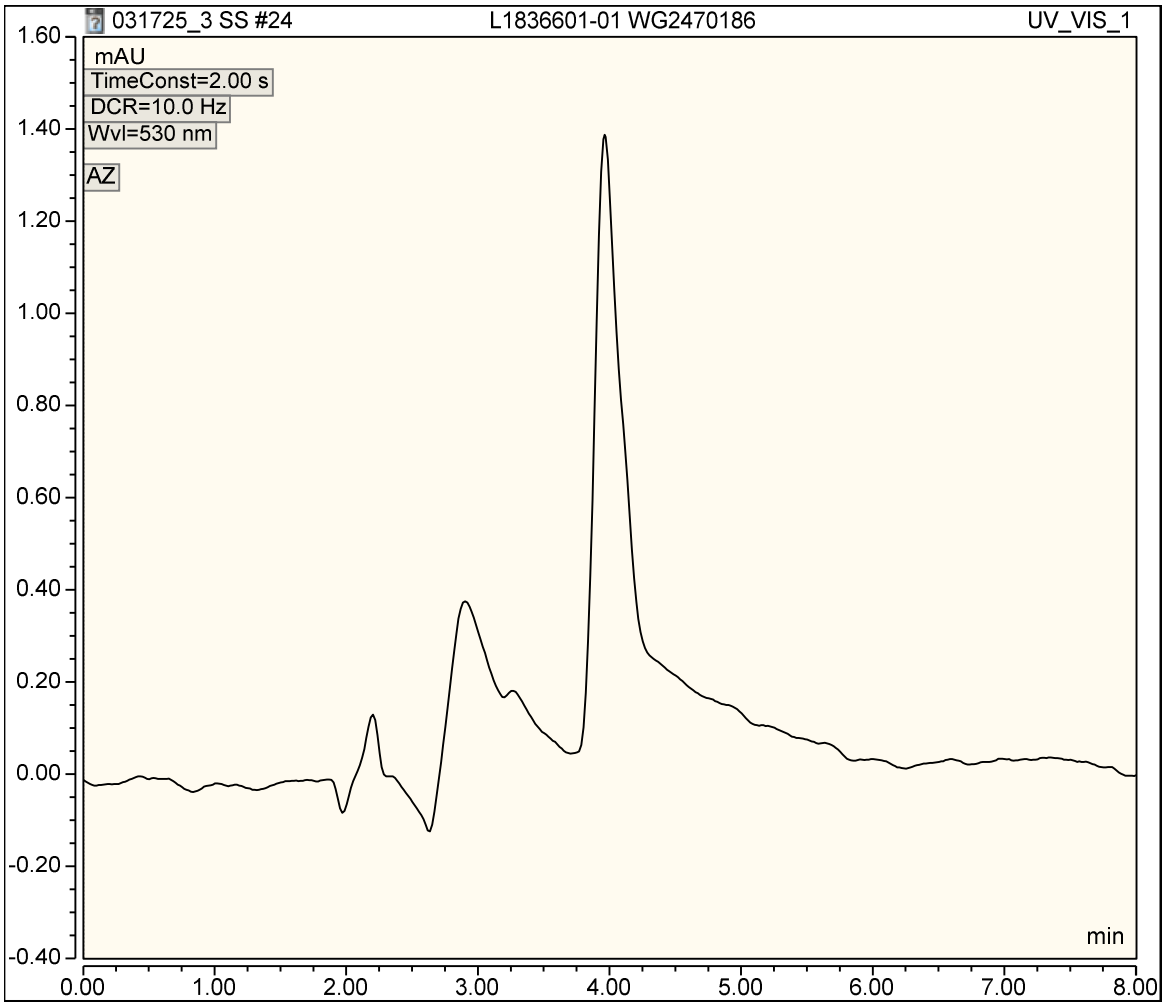
Sample Name:	**L1836601-01 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 22:47**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.96	CR6SS	BMB*	0.282	1.266	0.0007
		TOTAL:		0.28	1.27	0.00



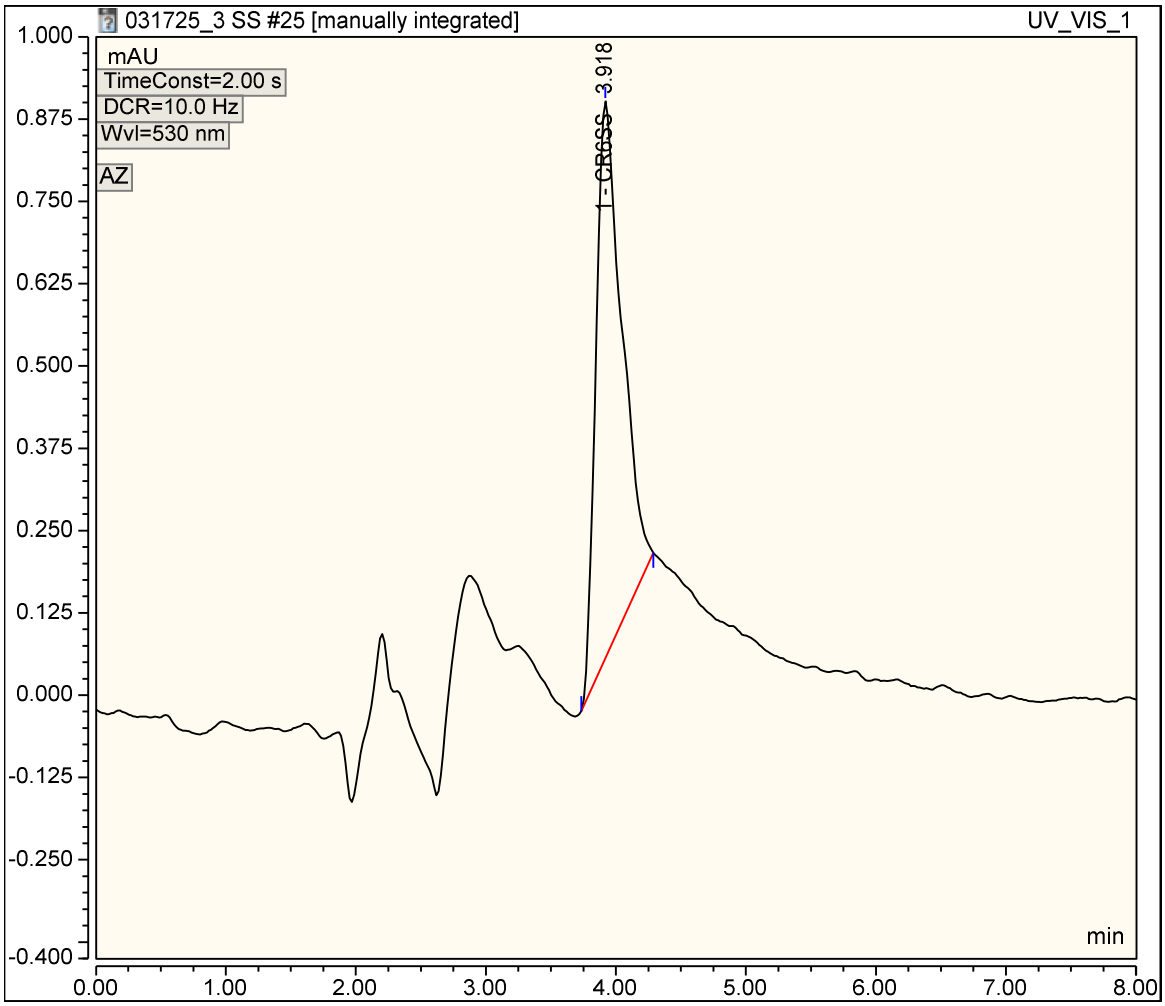
Sample Name:	**L1836601-01 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 22:47**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**L1836601-02 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 22:57**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.92	CR6SS	BMB*	0.196	0.846	0.0001
		TOTAL:		0.20	0.85	0.00

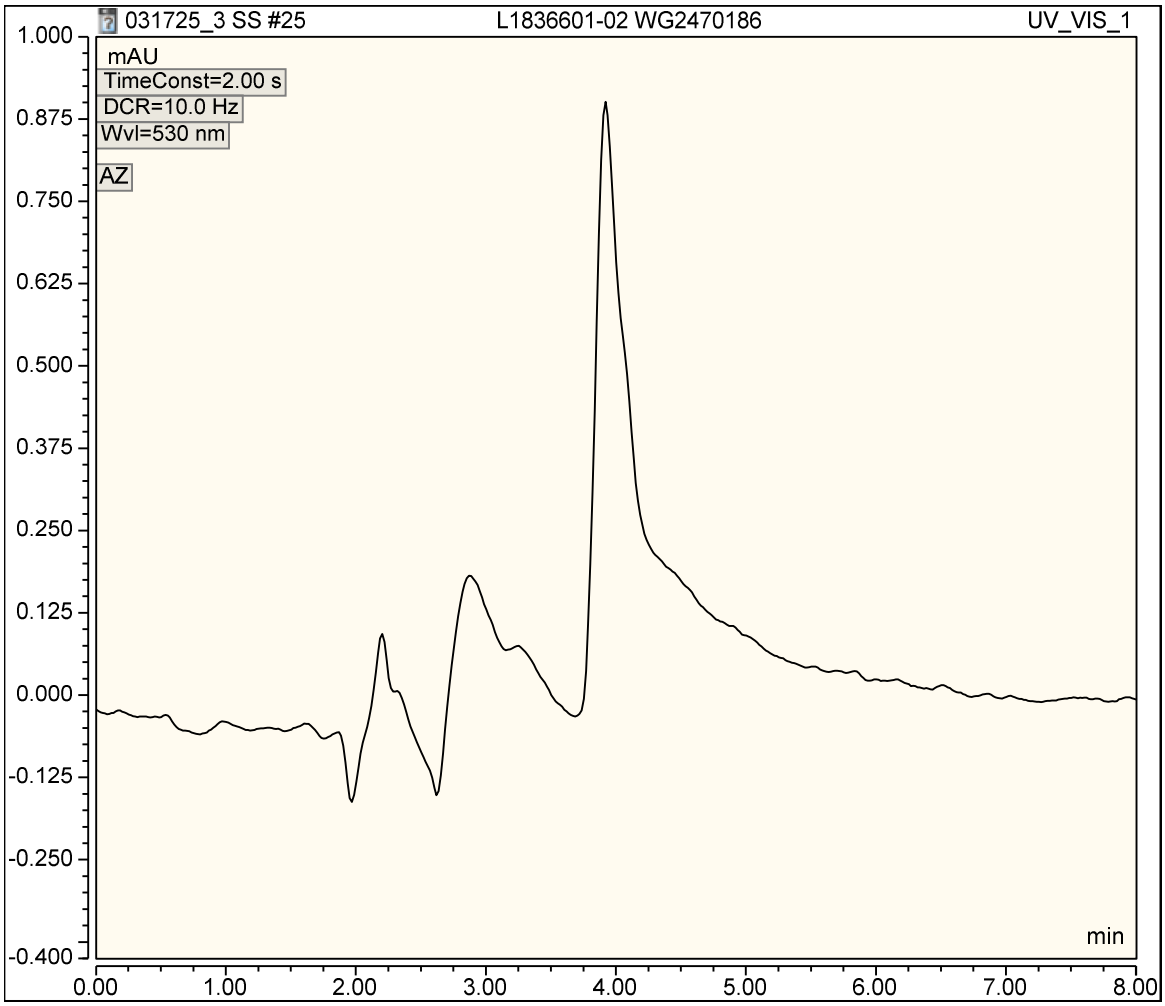


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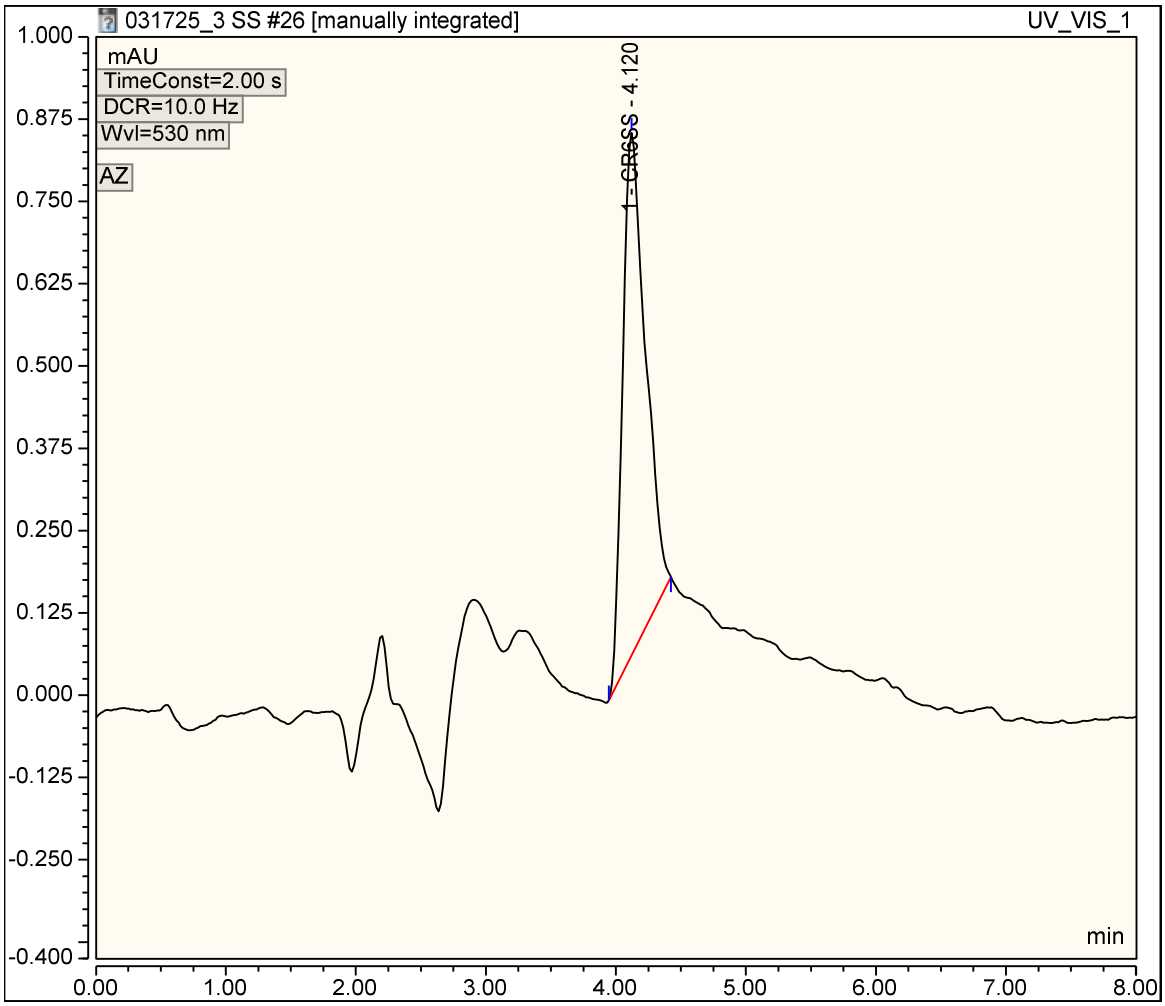
Sample Name:	**L1836601-02 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 22:57**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



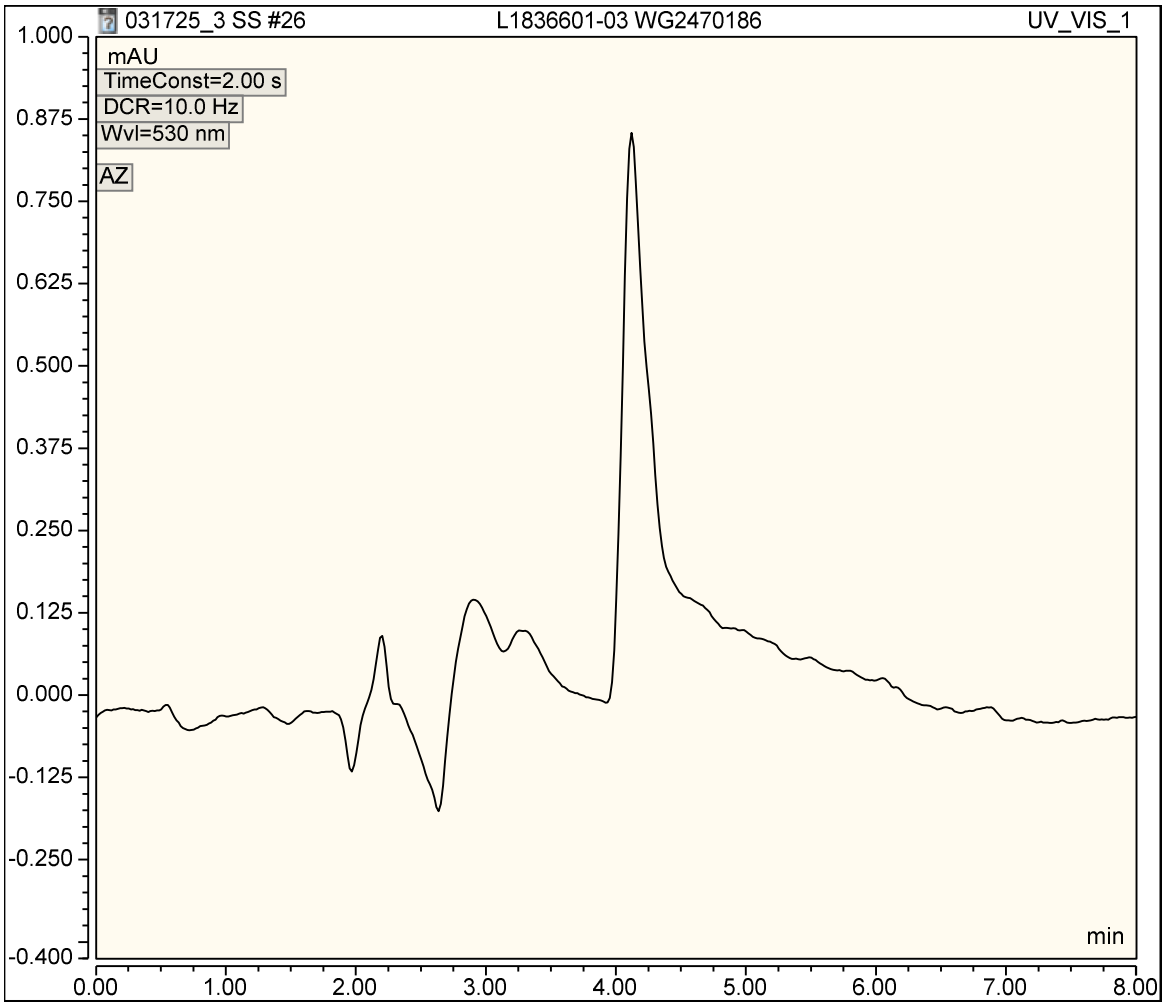
Sample Name:	**L1836601-03 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 23:07**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.12	CR6SS	BMB*	0.161	0.794	n.a.
		TOTAL:		0.16	0.79	0.00



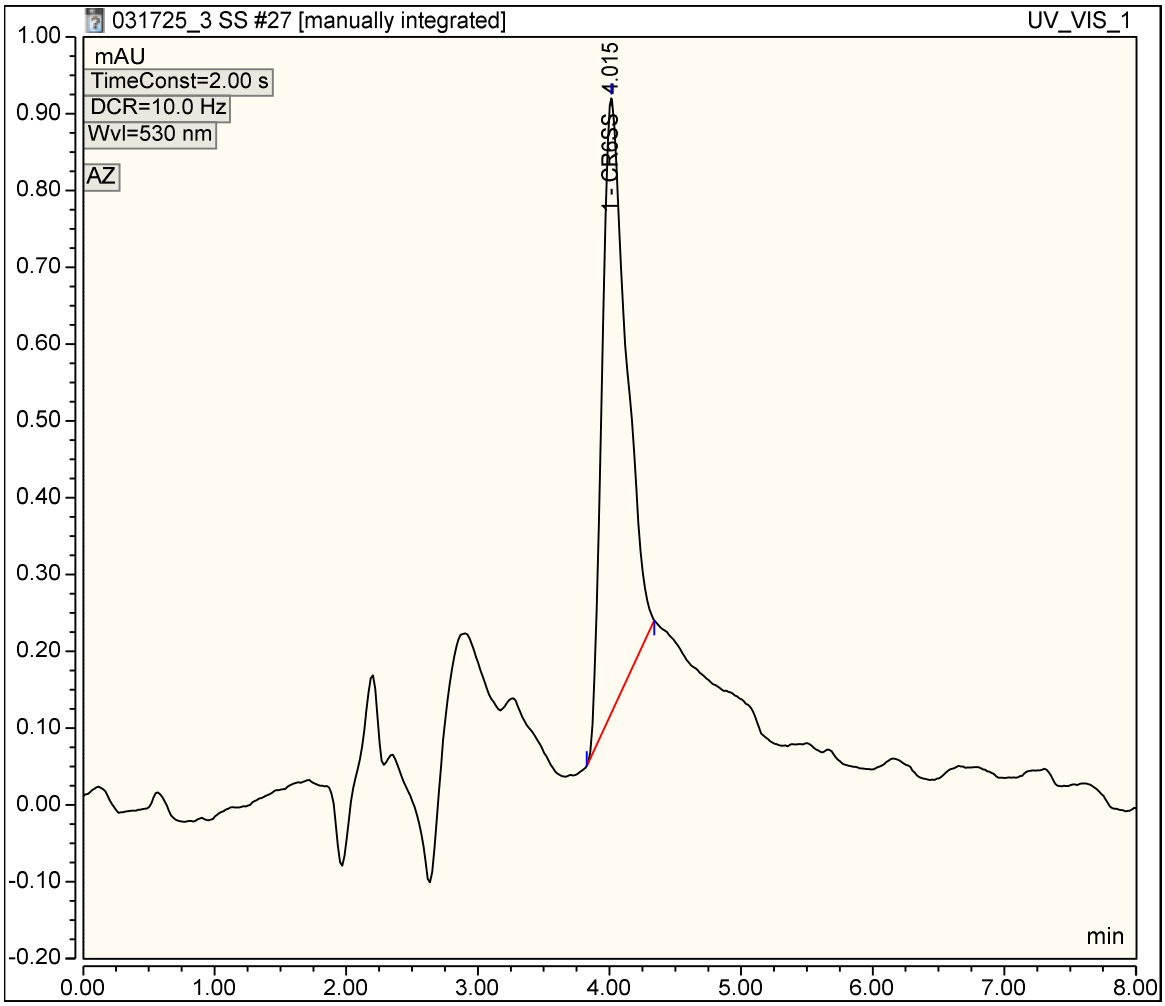
Sample Name:	**L1836601-03 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 23:07**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**L1836601-04 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 23:16**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.01	CR6SS	BMB*	0.171	0.800	n.a.
		TOTAL:		0.17	0.80	0.00

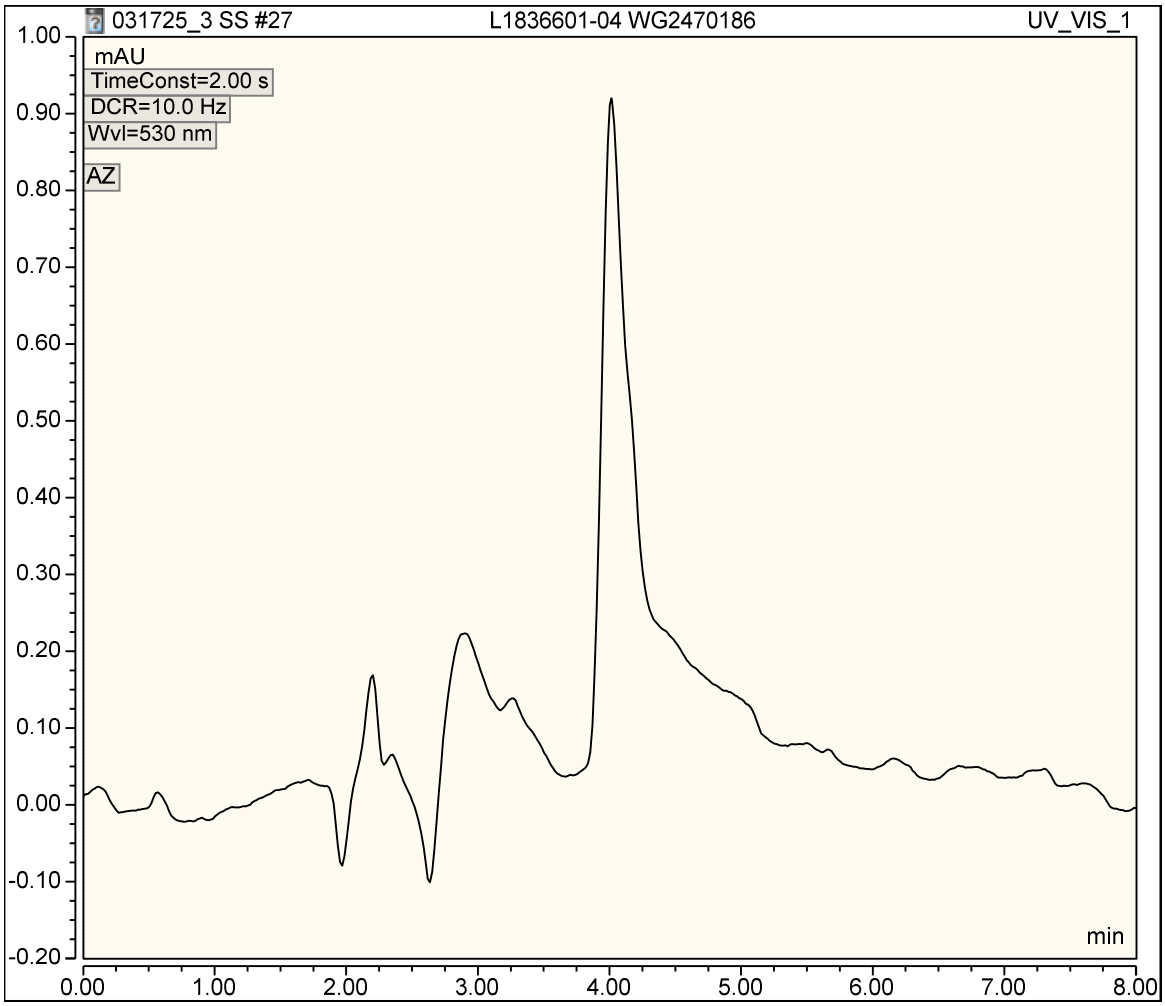


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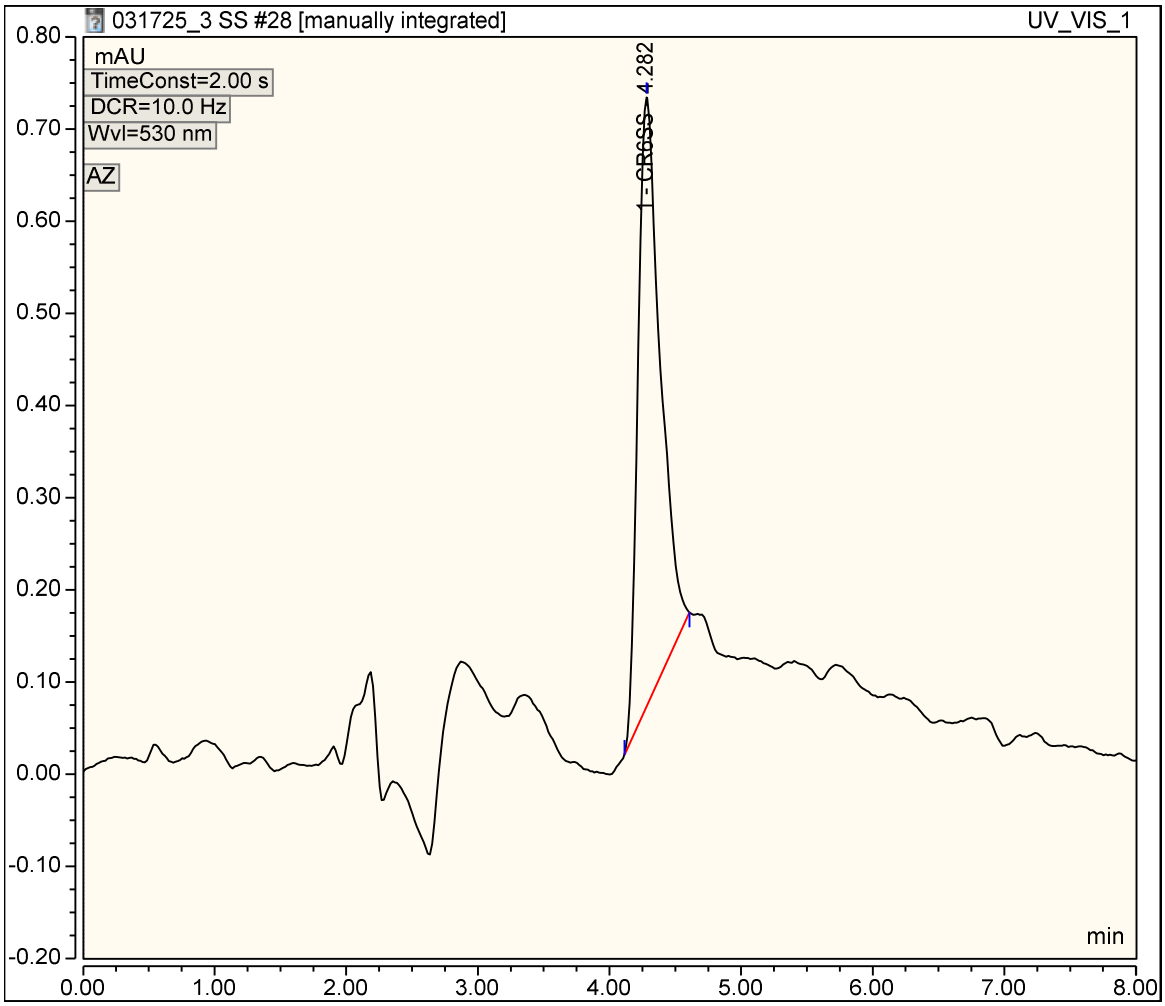
Sample Name:	**L1836601-04 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 23:16**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**L1836601-05 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 23:26**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.28	CR6SS	BMB*	0.130	0.661	n.a.
		TOTAL:		0.13	0.66	0.00

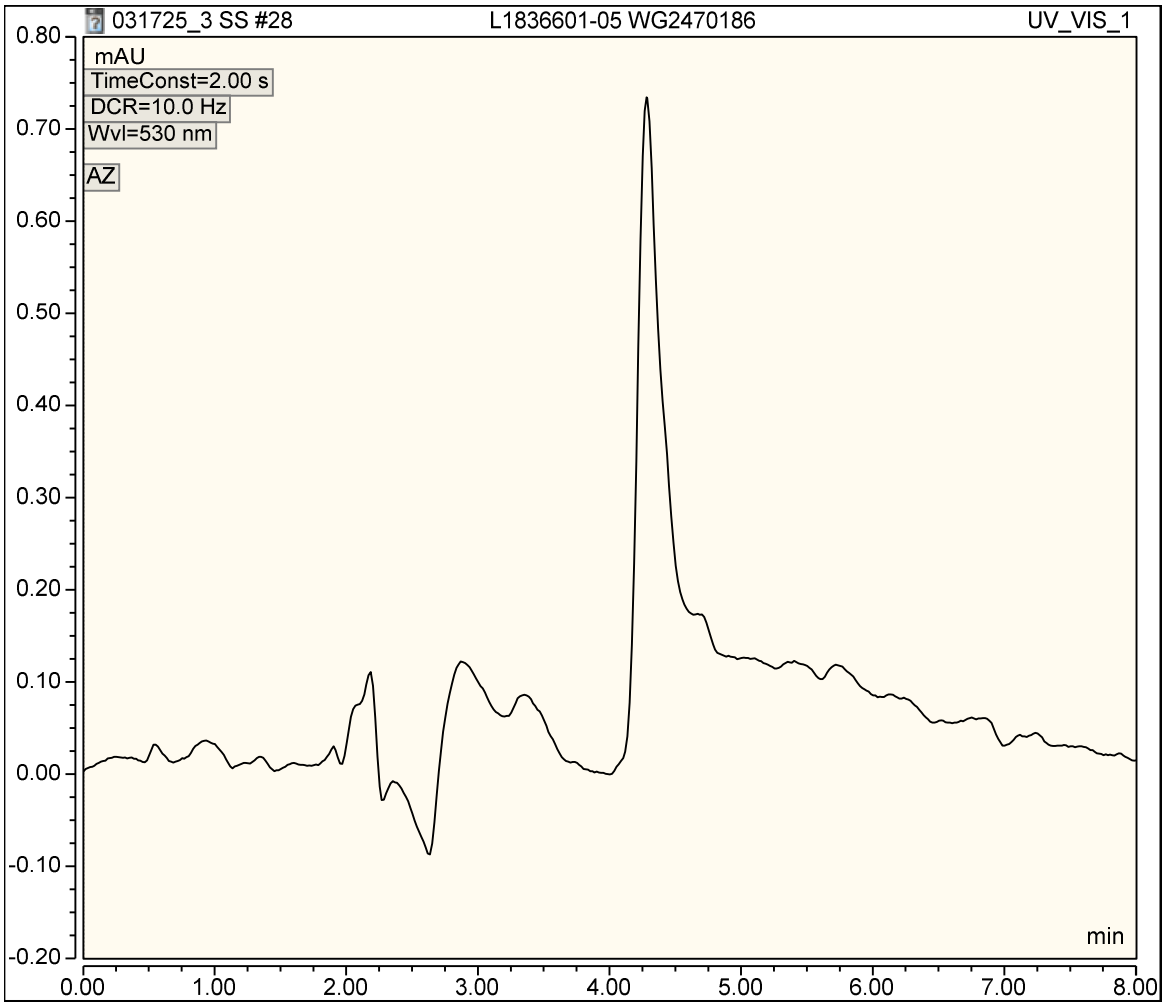


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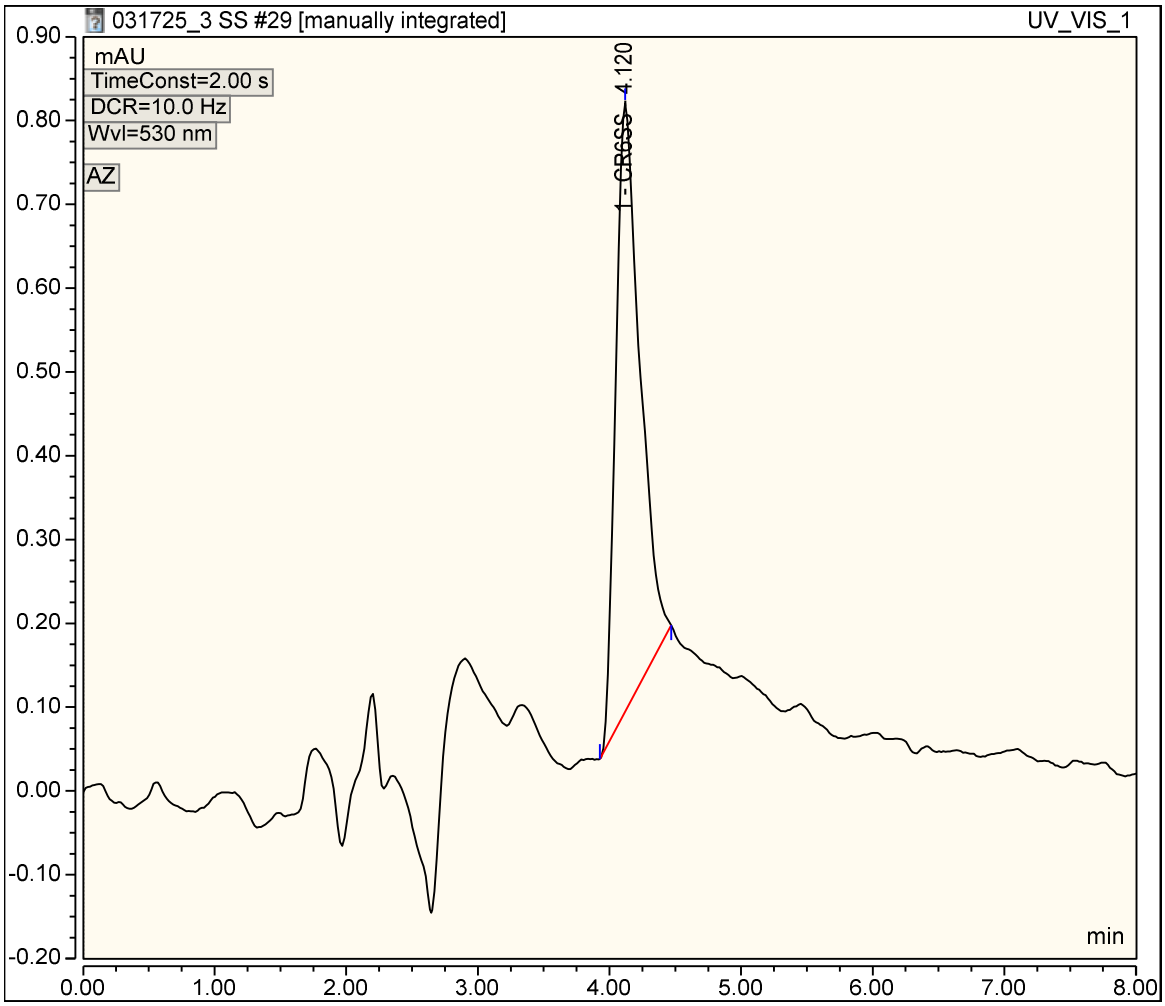
Sample Name:	**L1836601-05 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 23:26**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**L1836601-06 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 23:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.12	CR6SS	BMB*	0.155	0.725	n.a.
		TOTAL:		0.16	0.73	0.00

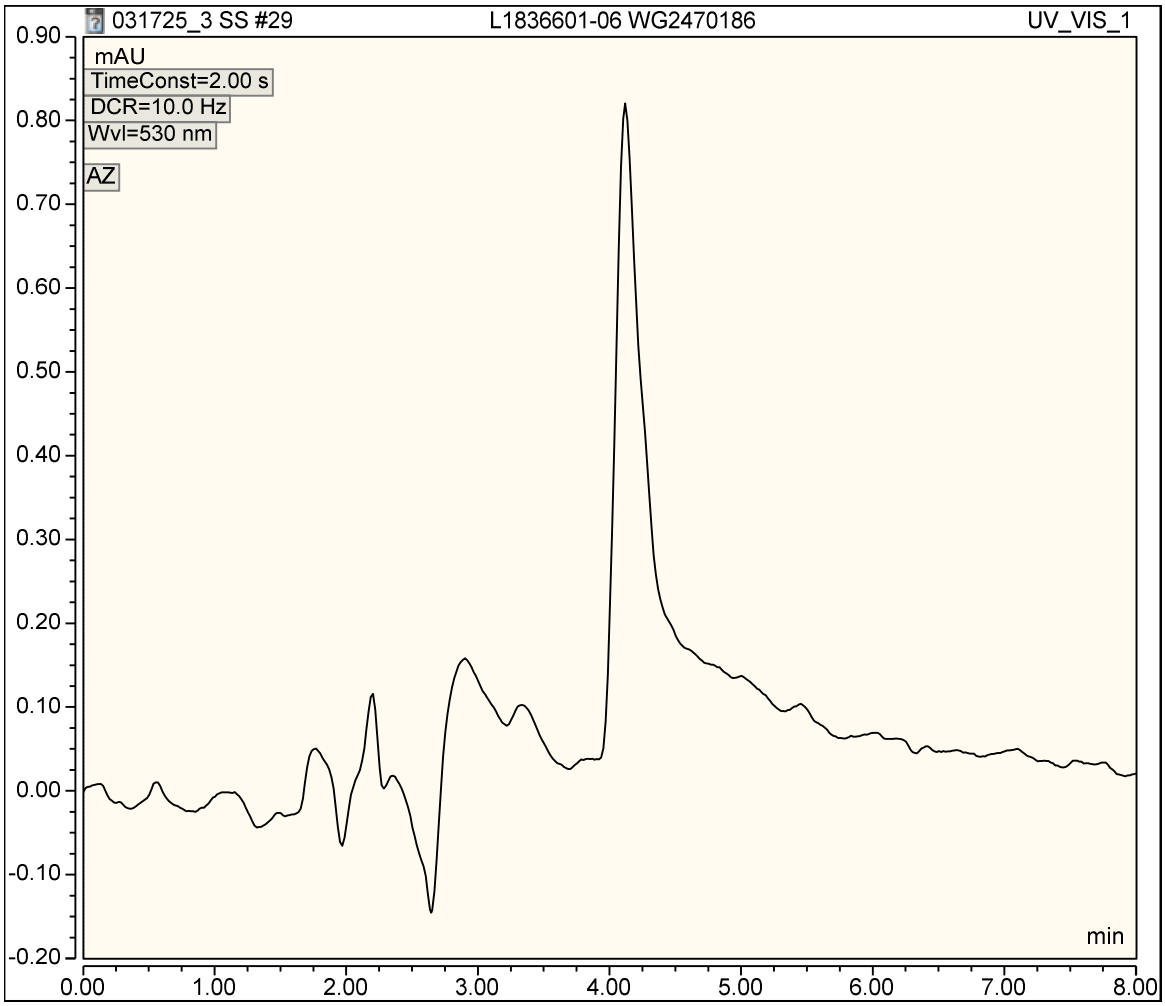


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Version 7.2.10.23925

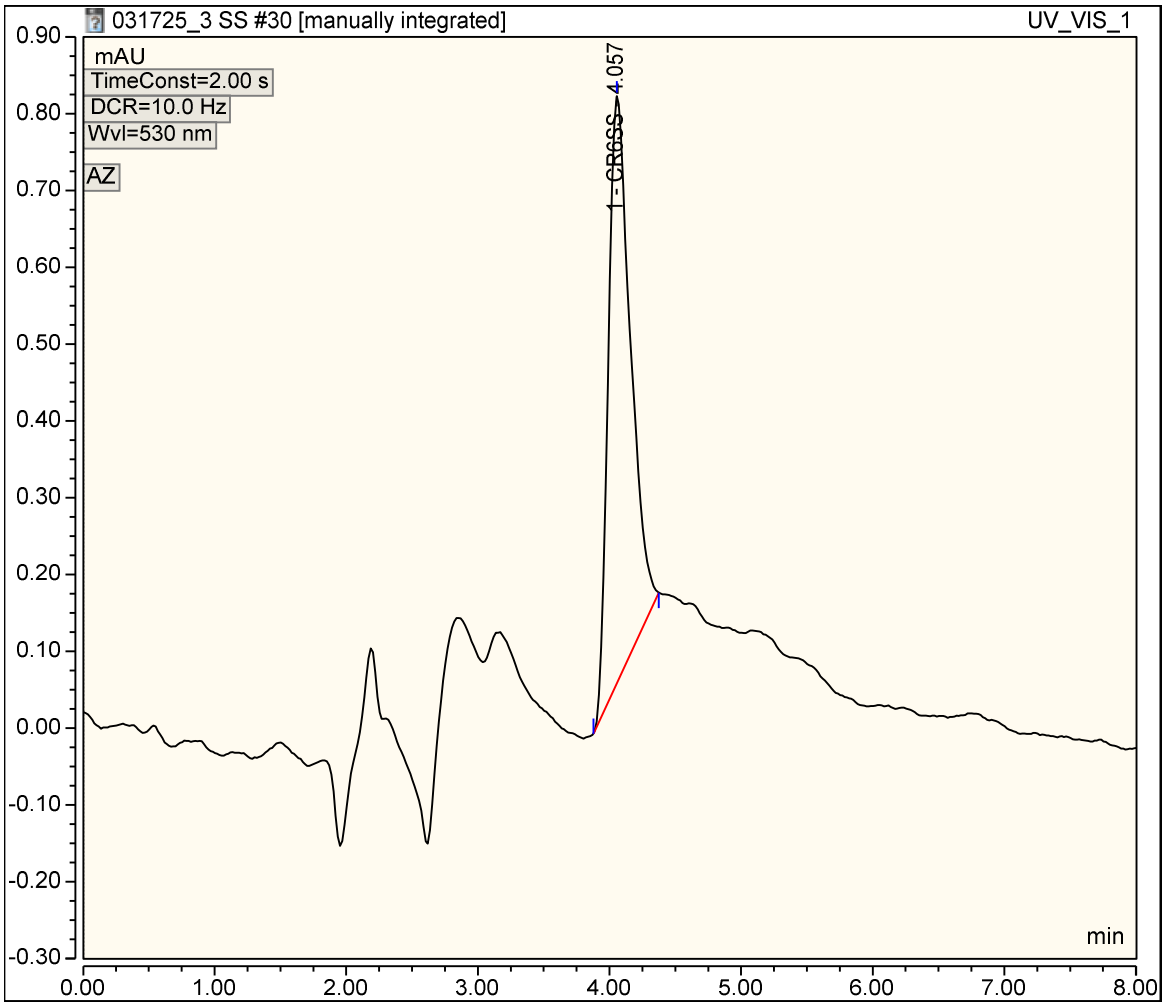
Sample Name:	**L1836601-06 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 23:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



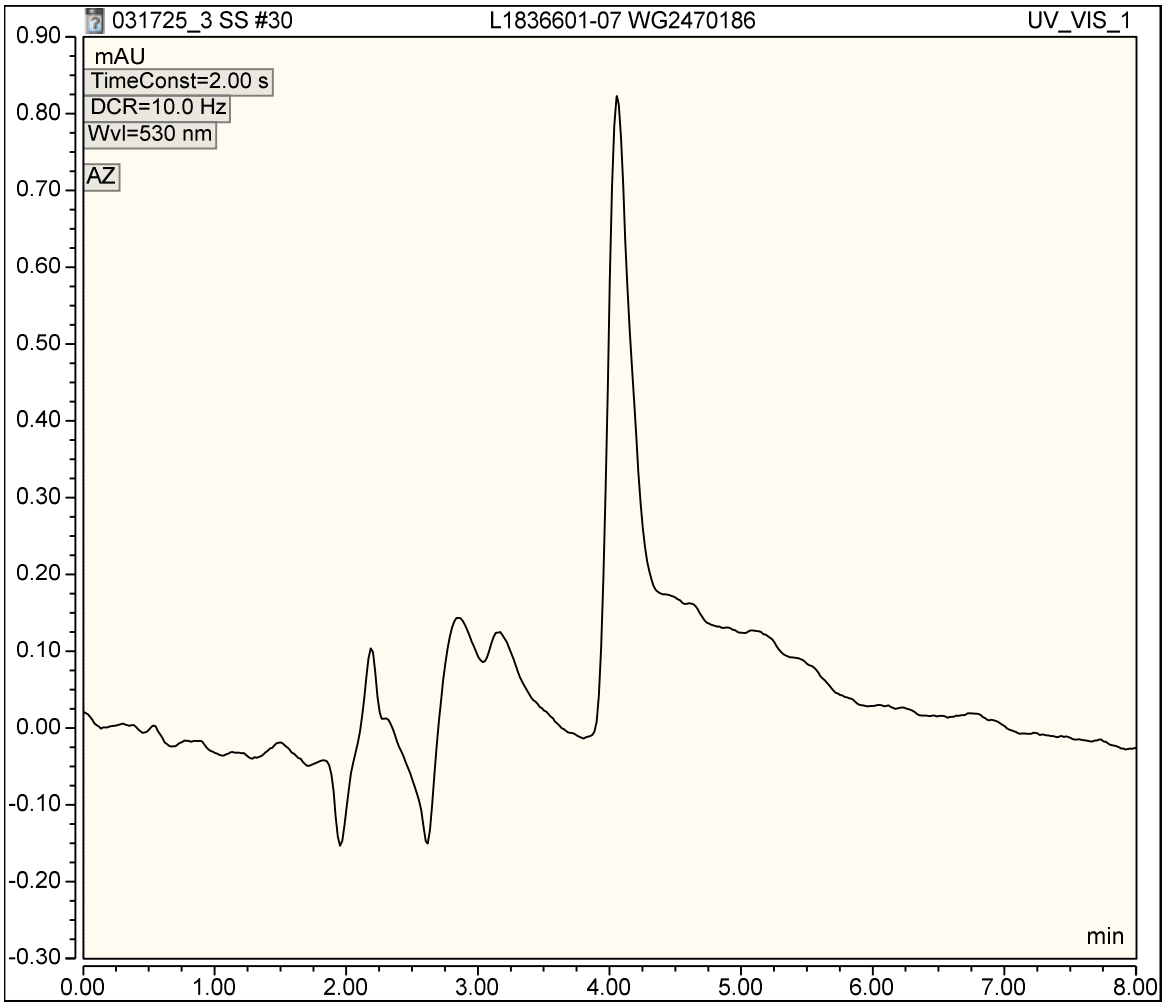
Sample Name:	**L1836601-07 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 23:45**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.06	CR6SS	BMB*	0.150	0.764	n.a.
		TOTAL:		0.15	0.76	0.00



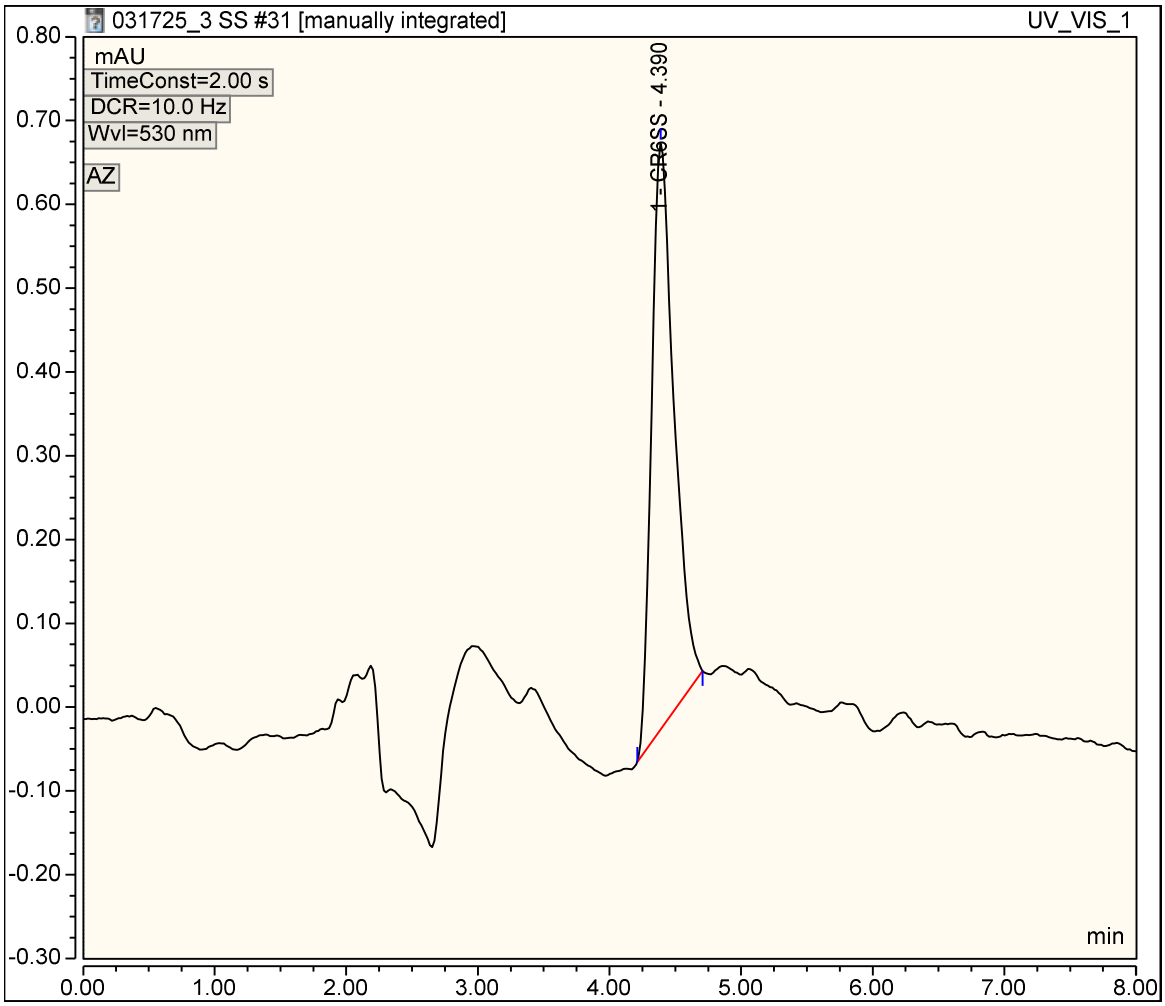
Sample Name:	**L1836601-07 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 23:45**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



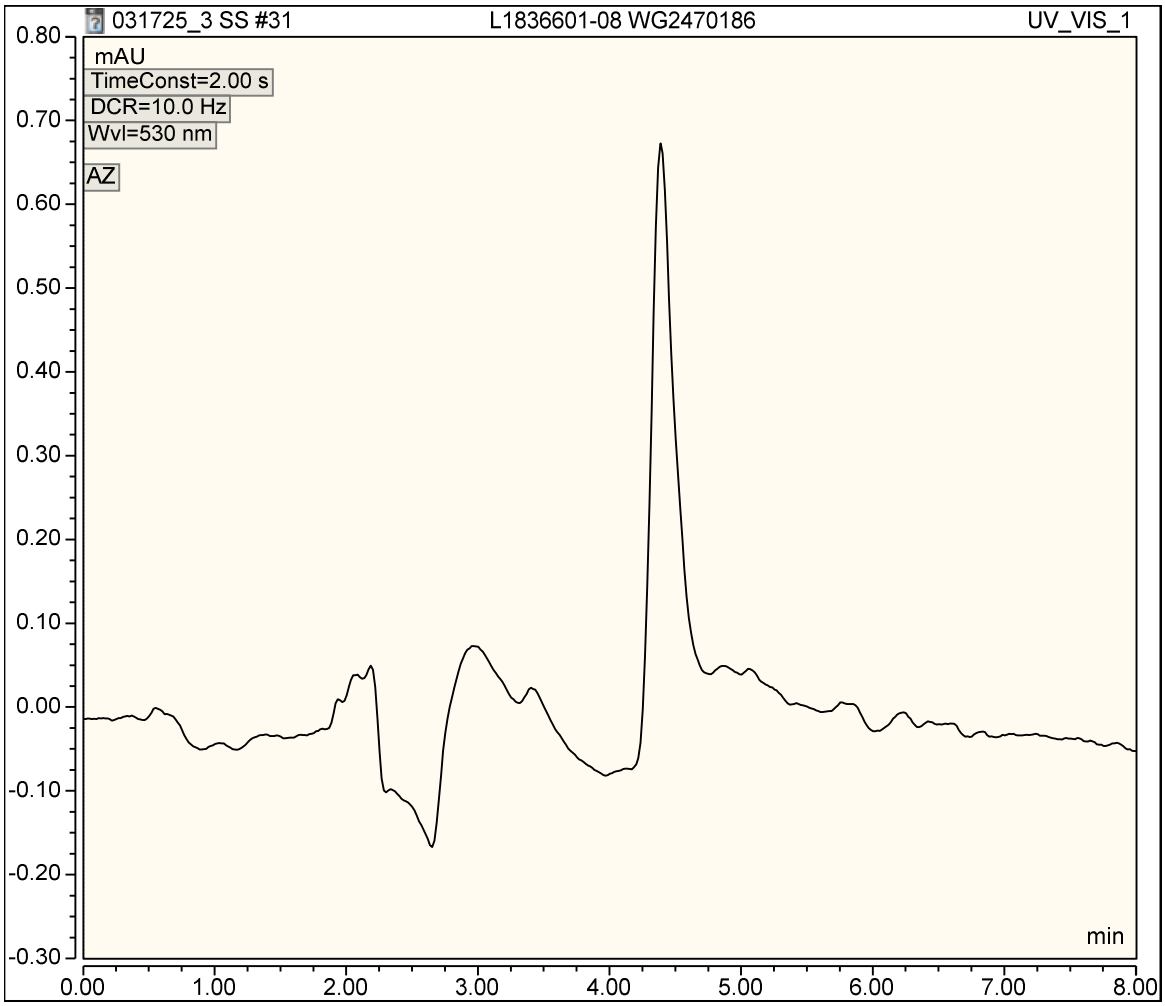
Sample Name:	**L1836601-08 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 23:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.39	CR6SS	BMB*	0.138	0.699	n.a.
		TOTAL:		0.14	0.70	0.00



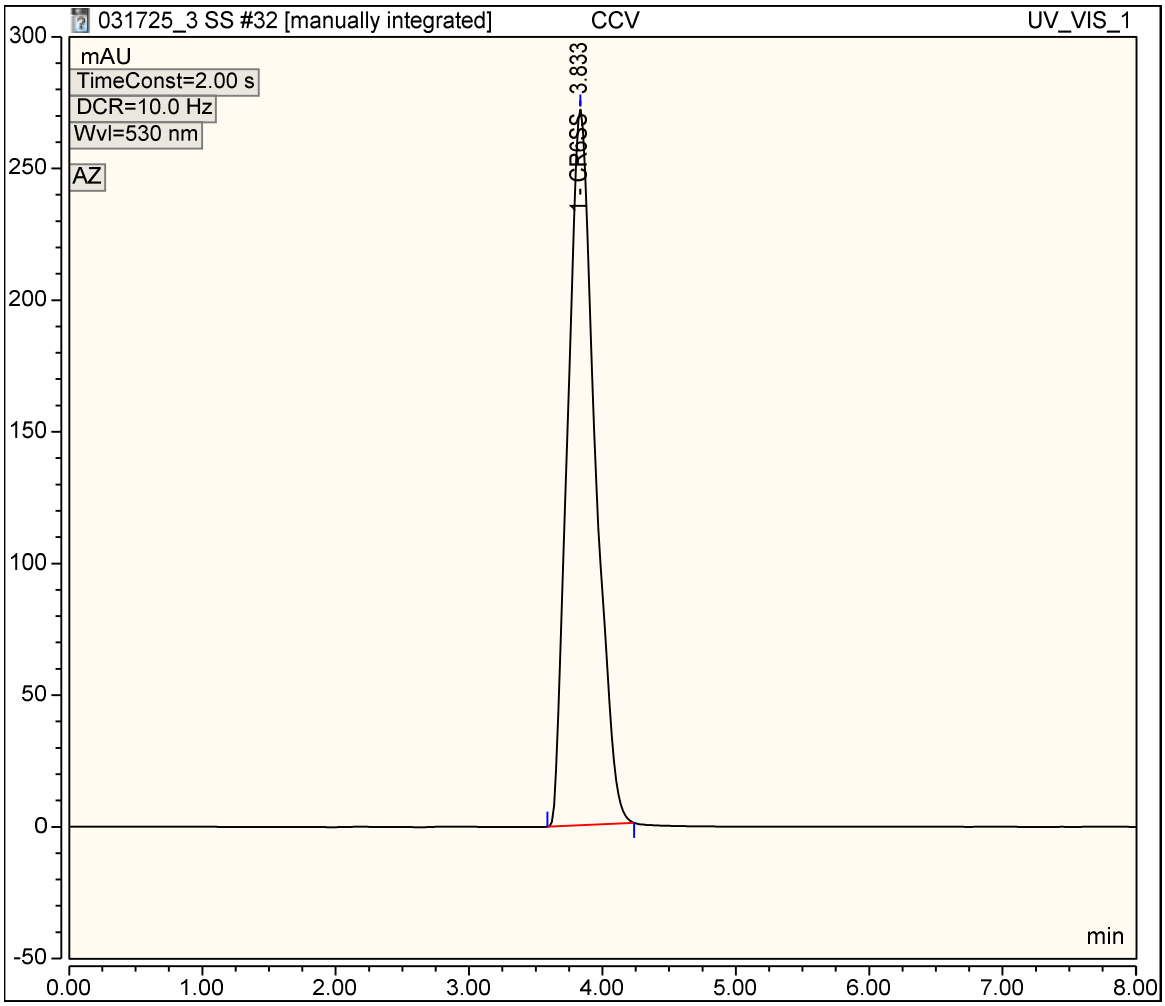
Sample Name:	**L1836601-08 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 23:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



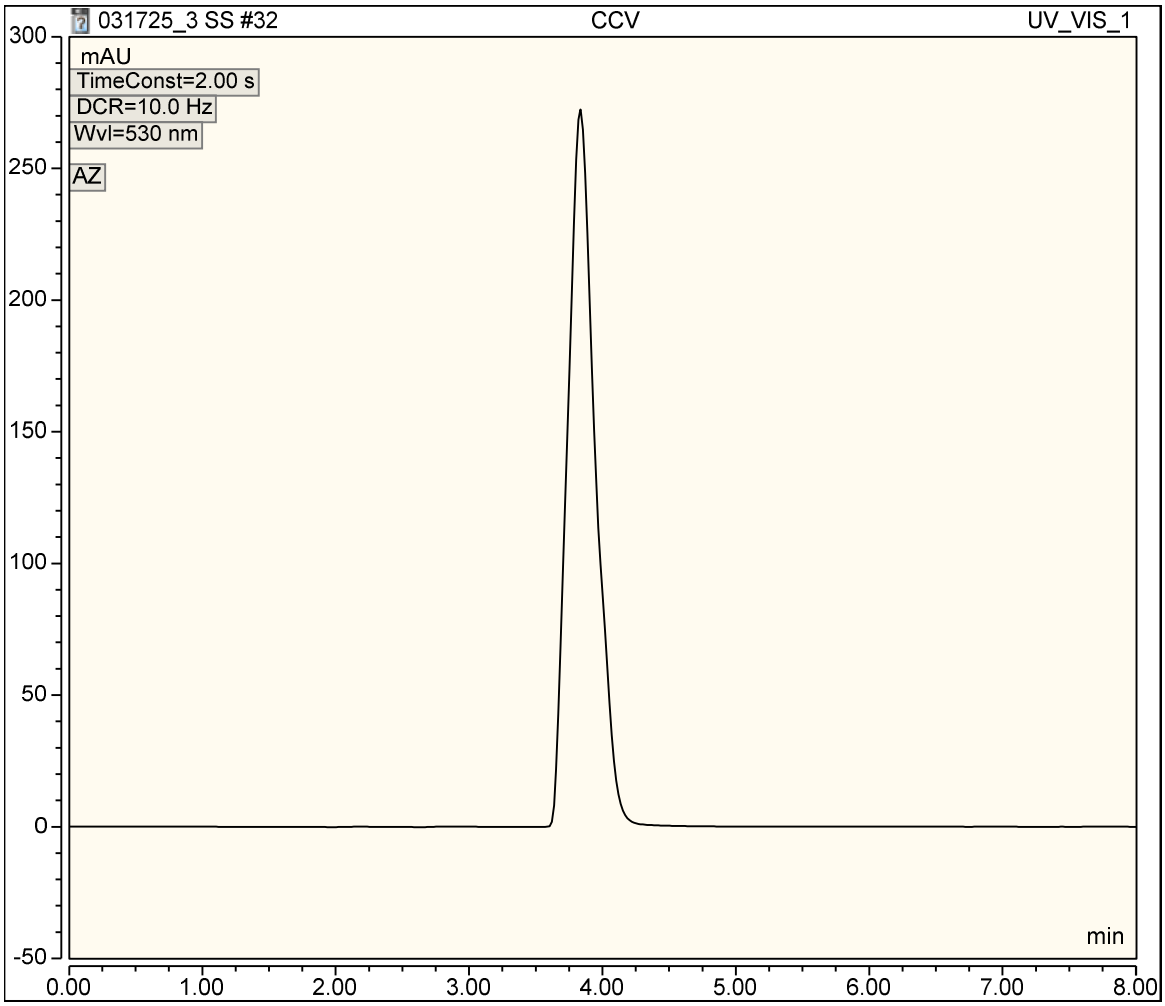
Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 00:04**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.83	CR6SS	BMB*	64.504	271.839	0.5174
		TOTAL:		64.50	271.84	0.52



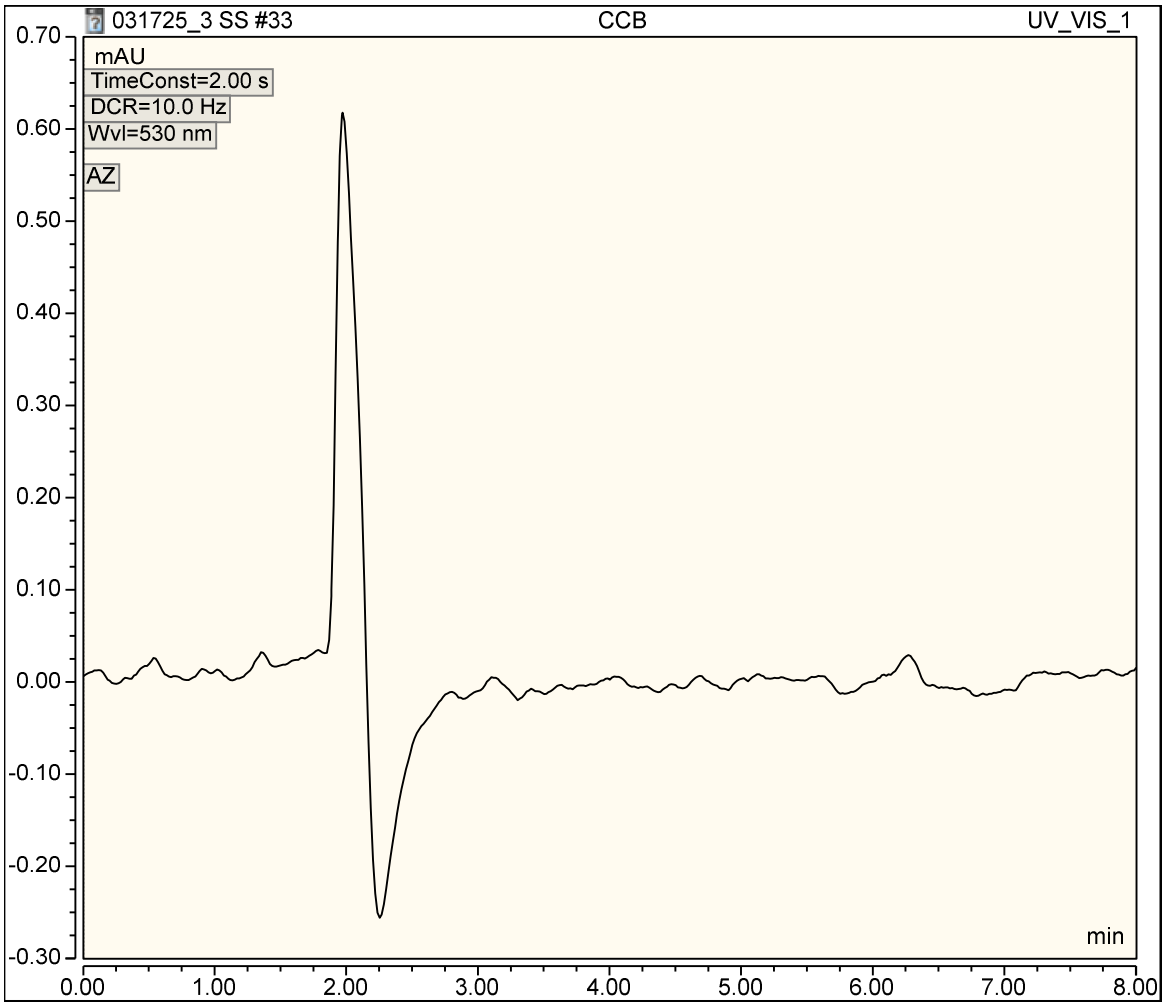
Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 00:04**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



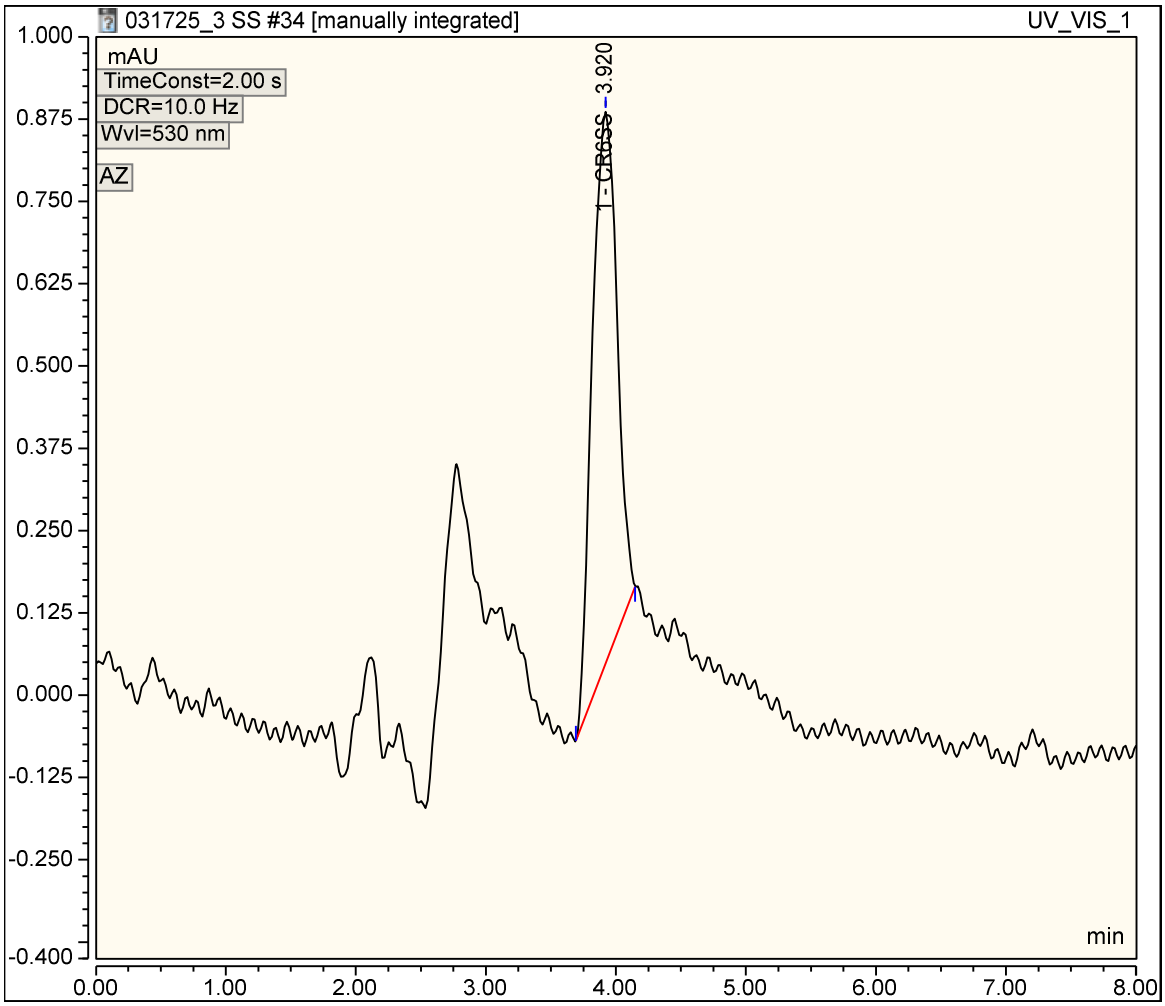
Sample Name:	**CCB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 00:14**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



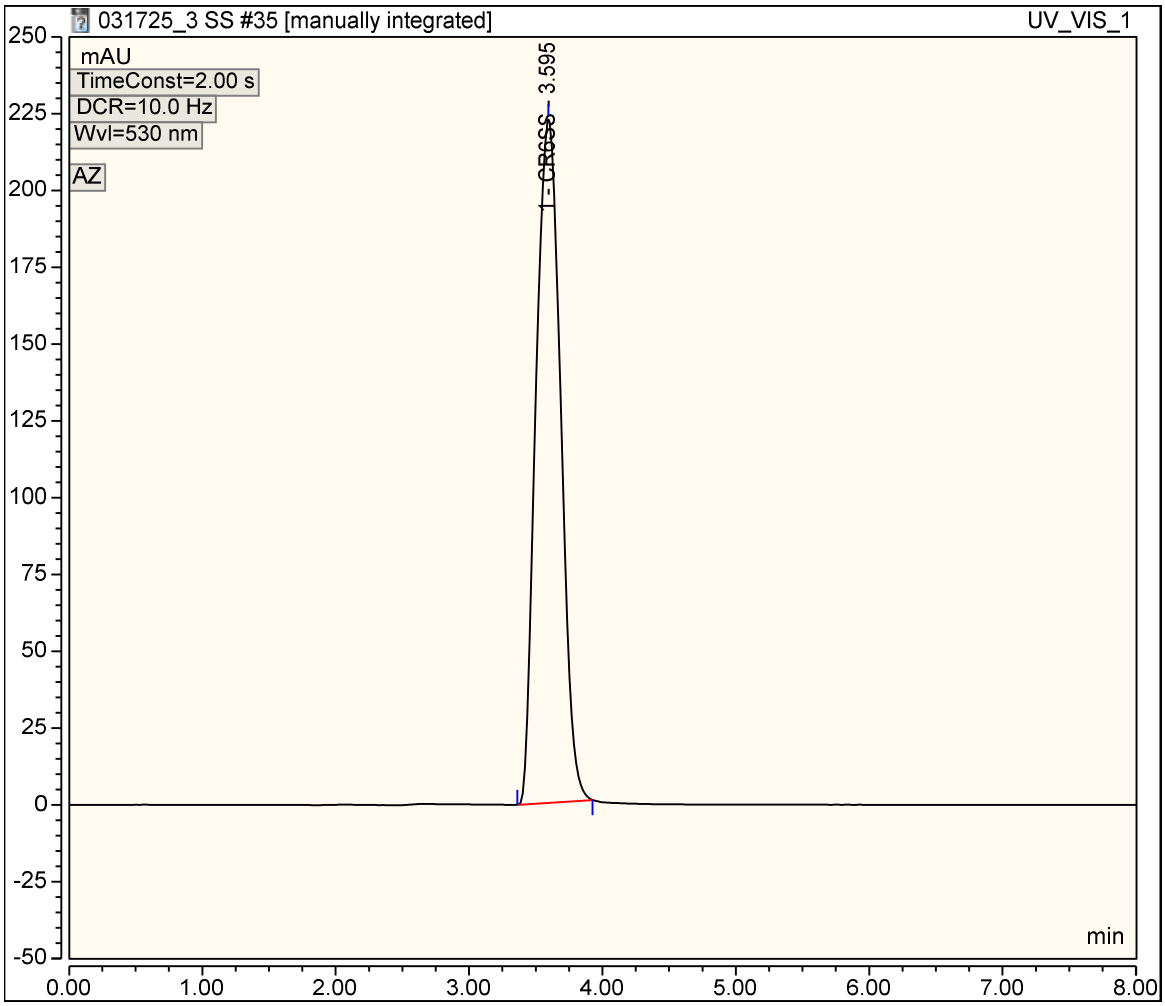
Sample Name:	**L1836601-09 WG2470186**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 00:58**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.92	CR6SS	BMB*	0.186	0.839	n.a.
		TOTAL:		0.19	0.84	0.00



Sample Name:	**MS WG2470186 L1836601-09**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 01:07**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.59	CR6SS	BMB*	47.911	222.407	0.3839
		TOTAL:		47.91	222.41	0.38

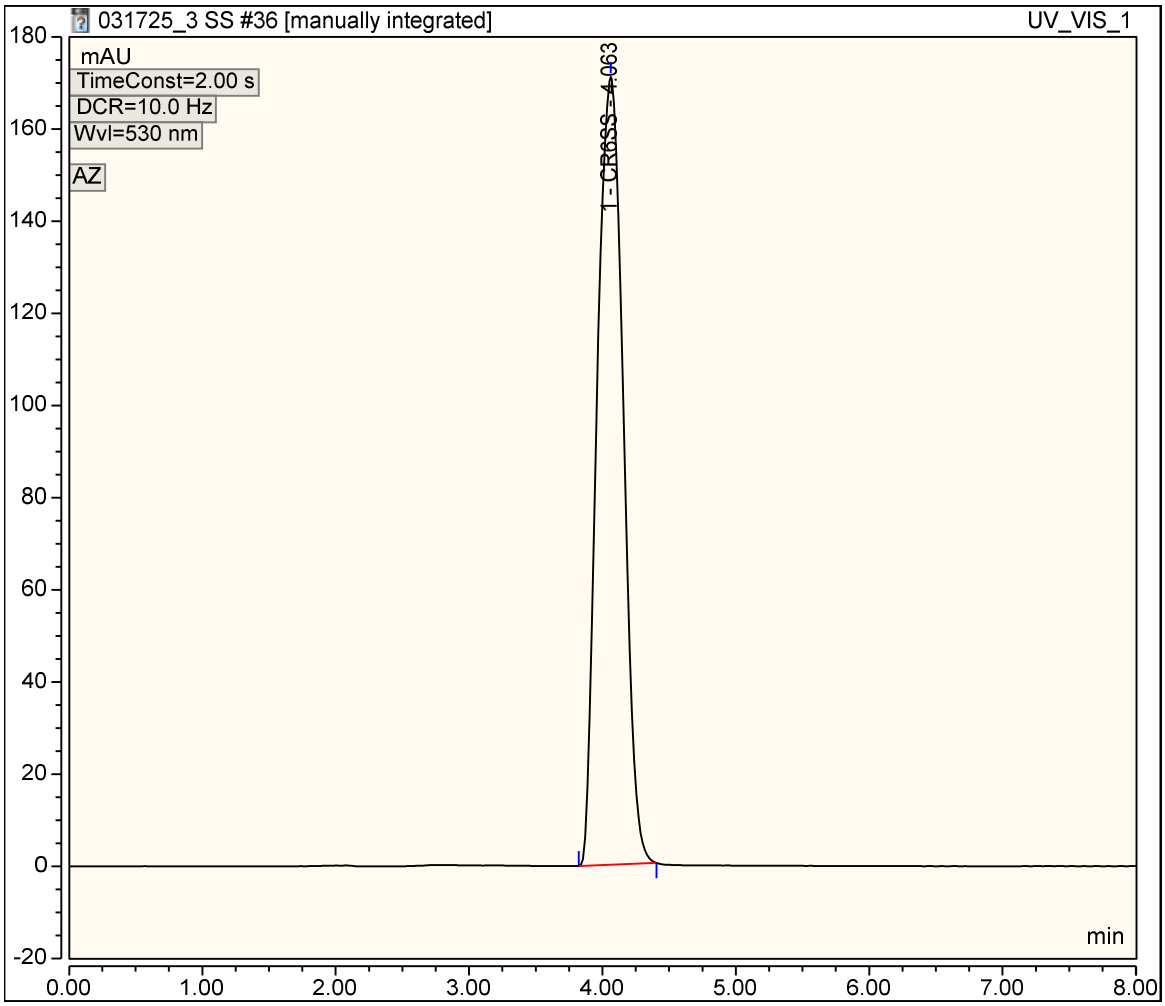


Export for Tree/Integration

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Version 7.2.10.23925

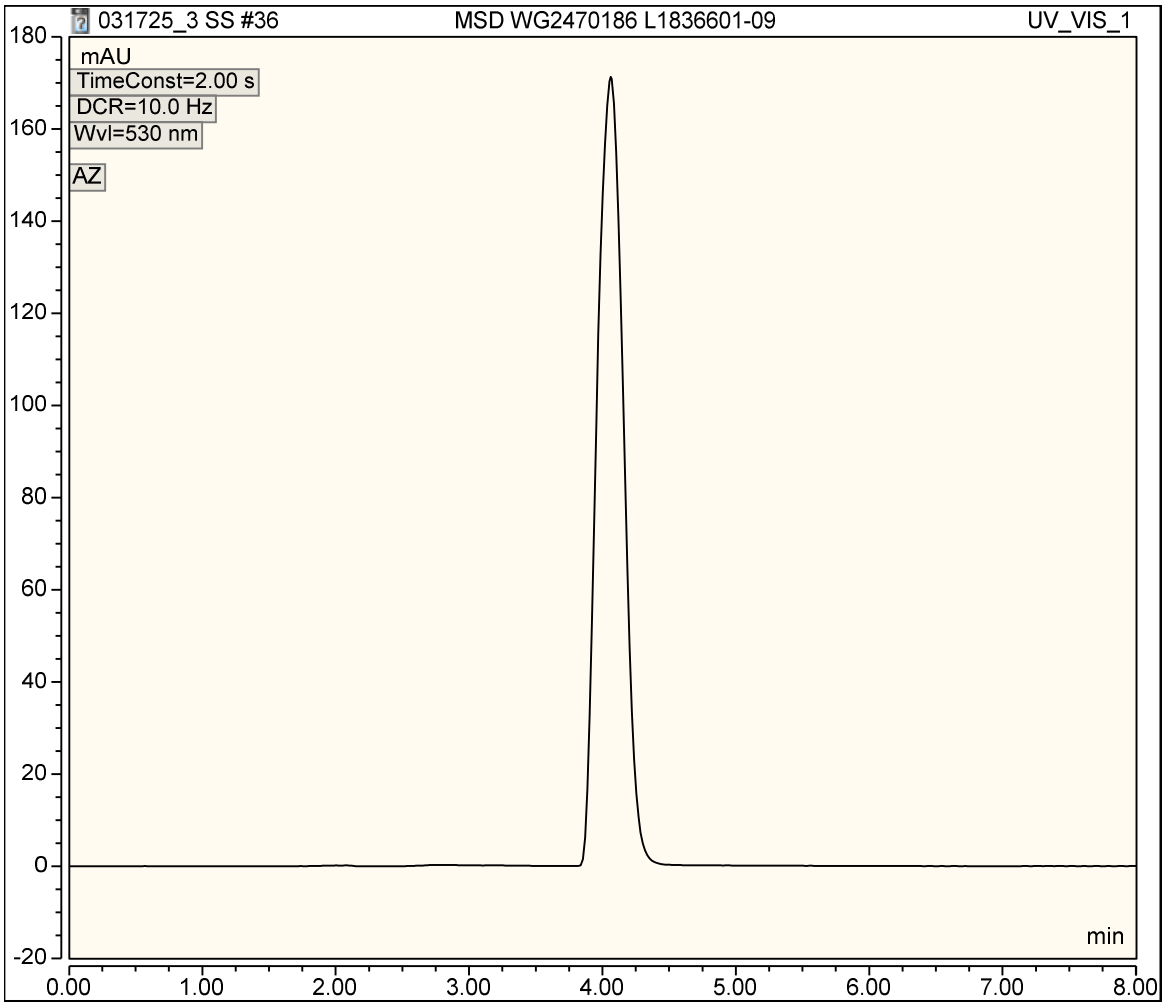
Sample Name:	**MSD WG2470186 L1836601-09**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 01:17**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.06	CR6SS	BMB*	38.555	170.961	0.3087
		TOTAL:		38.56	170.96	0.31



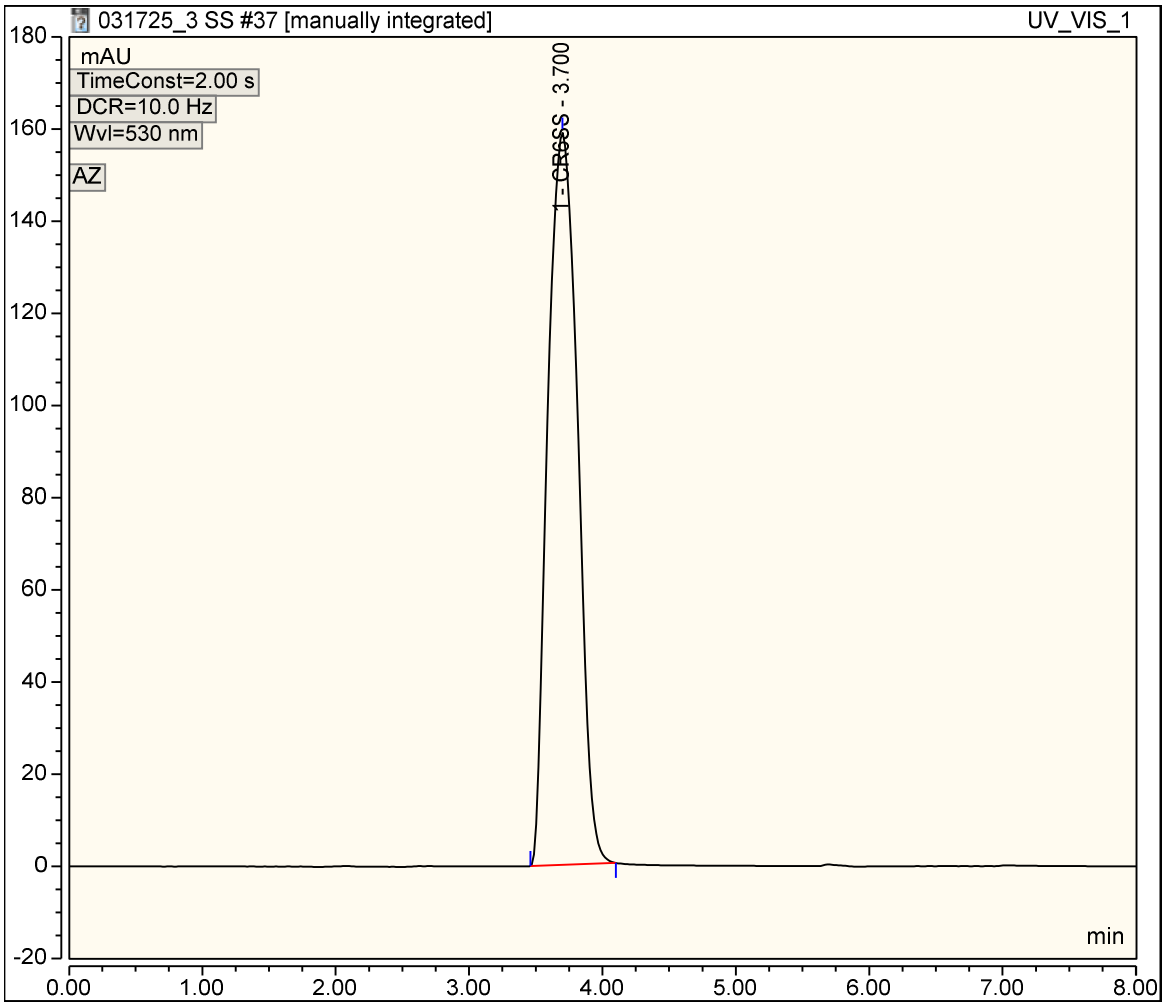
Sample Name:	**MSD WG2470186 L1836601-09**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 01:17**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



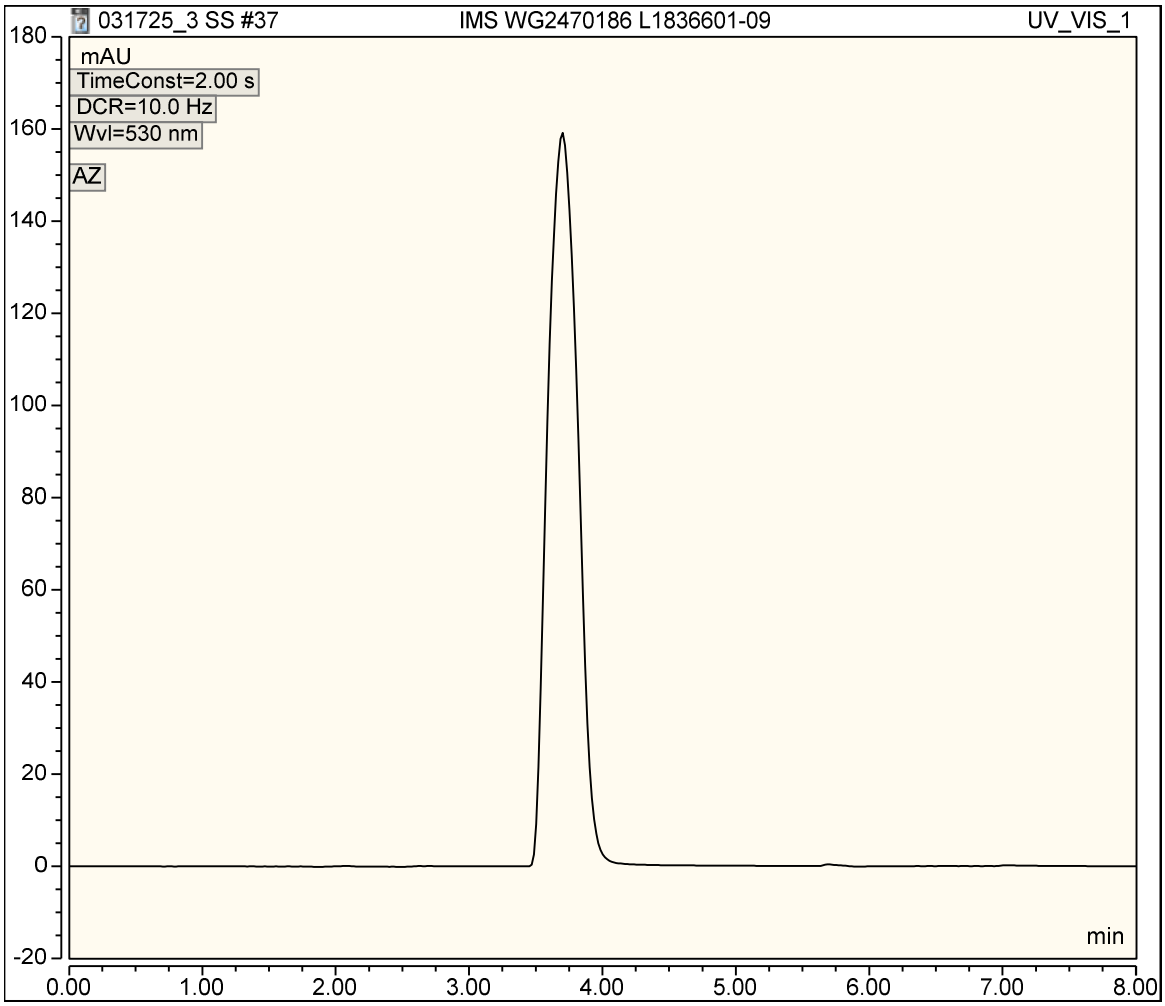
Sample Name:	**IMS WG2470186 L1836601-09**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**50.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 01:27**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.70	CR6SS	BMB*	41.120	158.916	16.4648
		TOTAL:		41.12	158.92	16.46



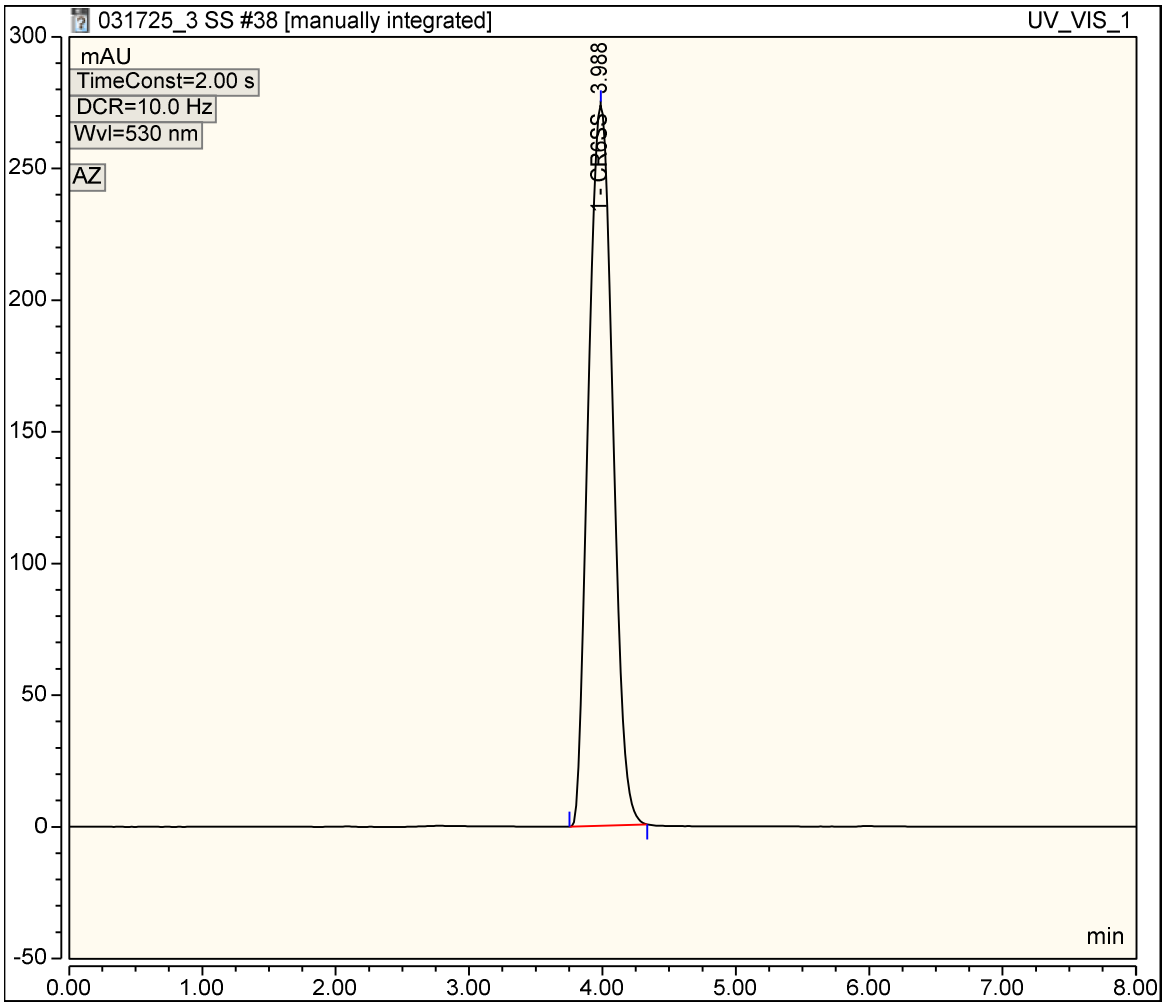
Sample Name:	**IMS WG2470186 L1836601-09**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**50.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 01:27**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



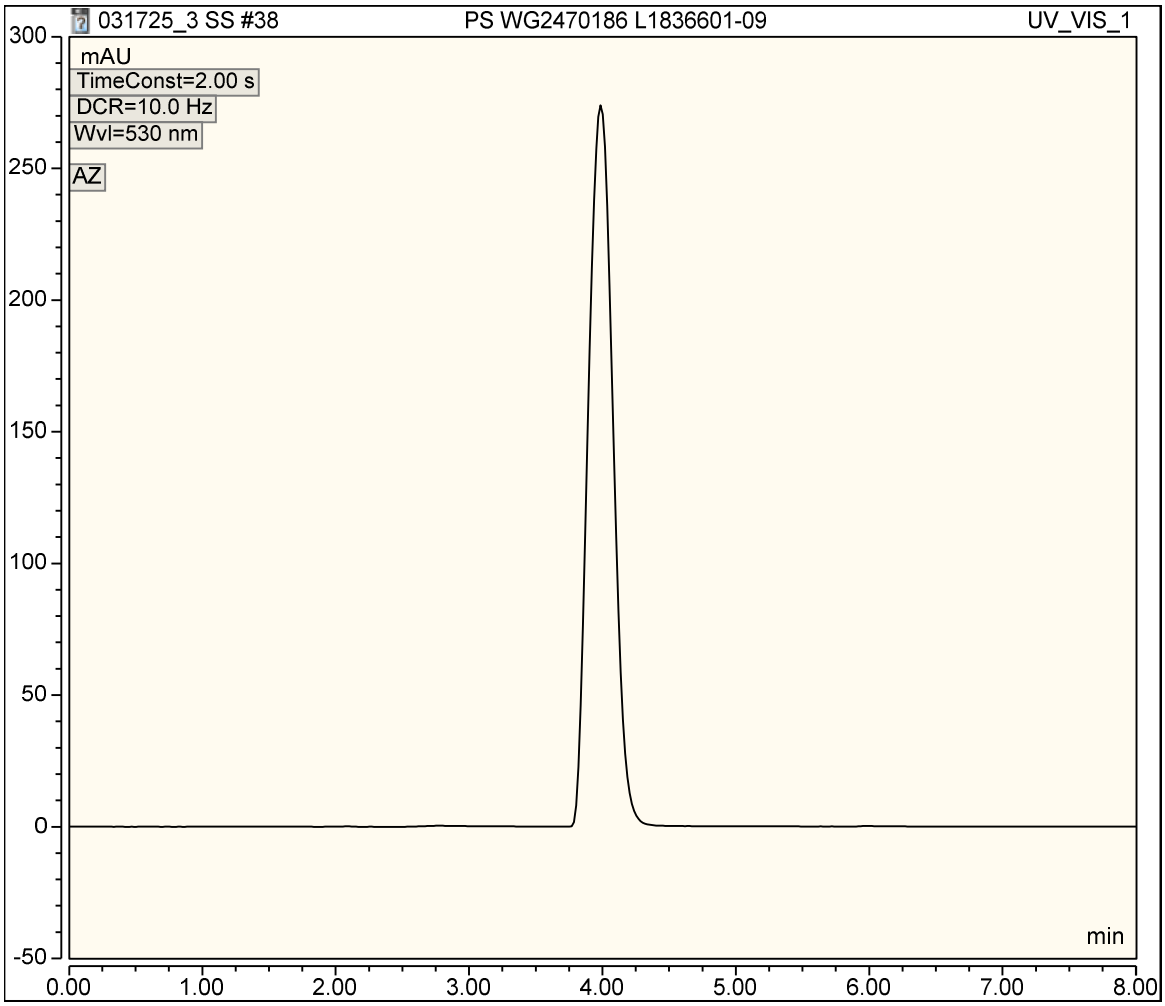
Sample Name:	**PS WG2470186 L1836601-09**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 01:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.99	CR6SS	BMB*	58.186	273.536	0.4666
		TOTAL:		58.19	273.54	0.47



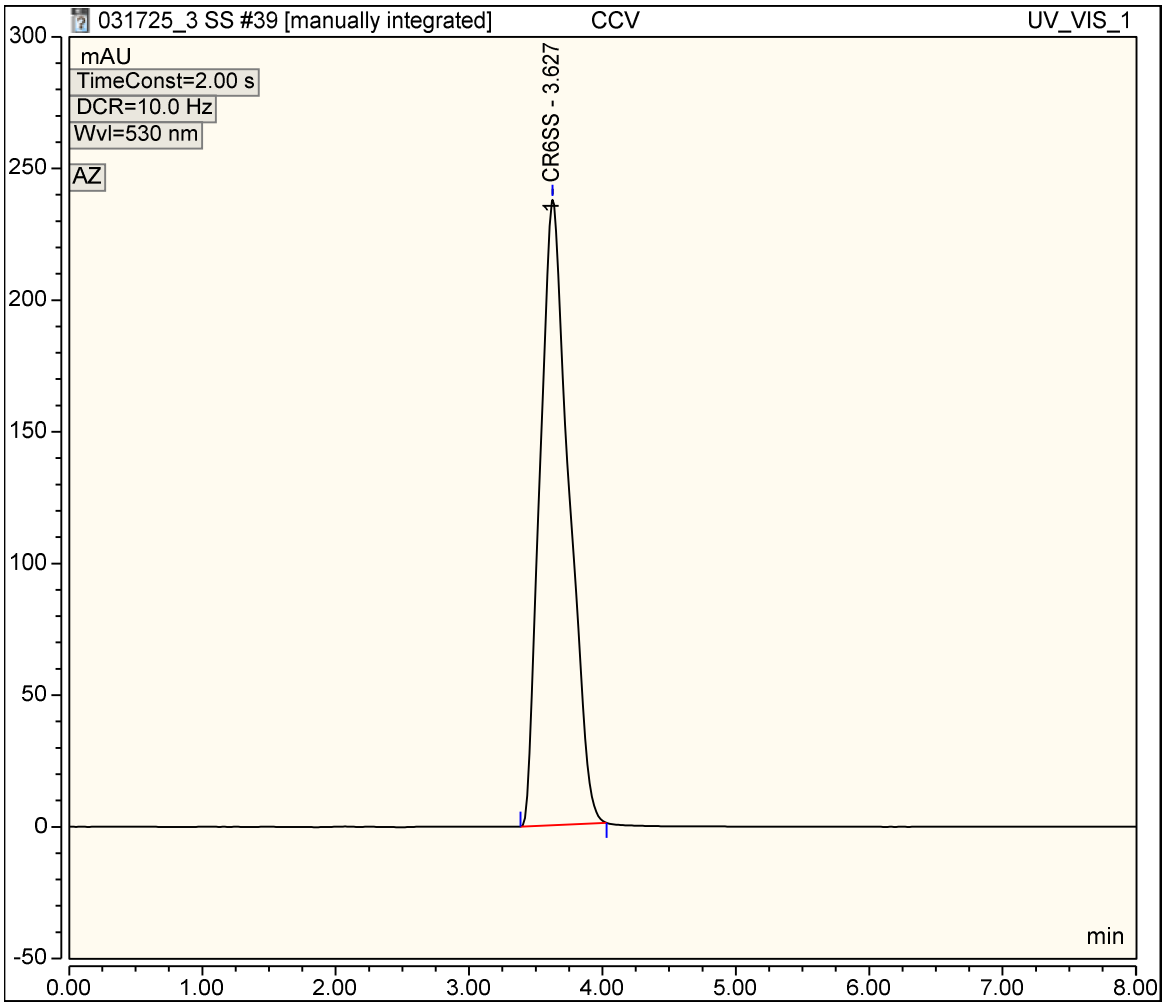
Sample Name:	**PS WG2470186 L1836601-09**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 01:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 01:46**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.63	CR6SS	BMB*	59.492	237.504	0.4771
		TOTAL:		59.49	237.50	0.48

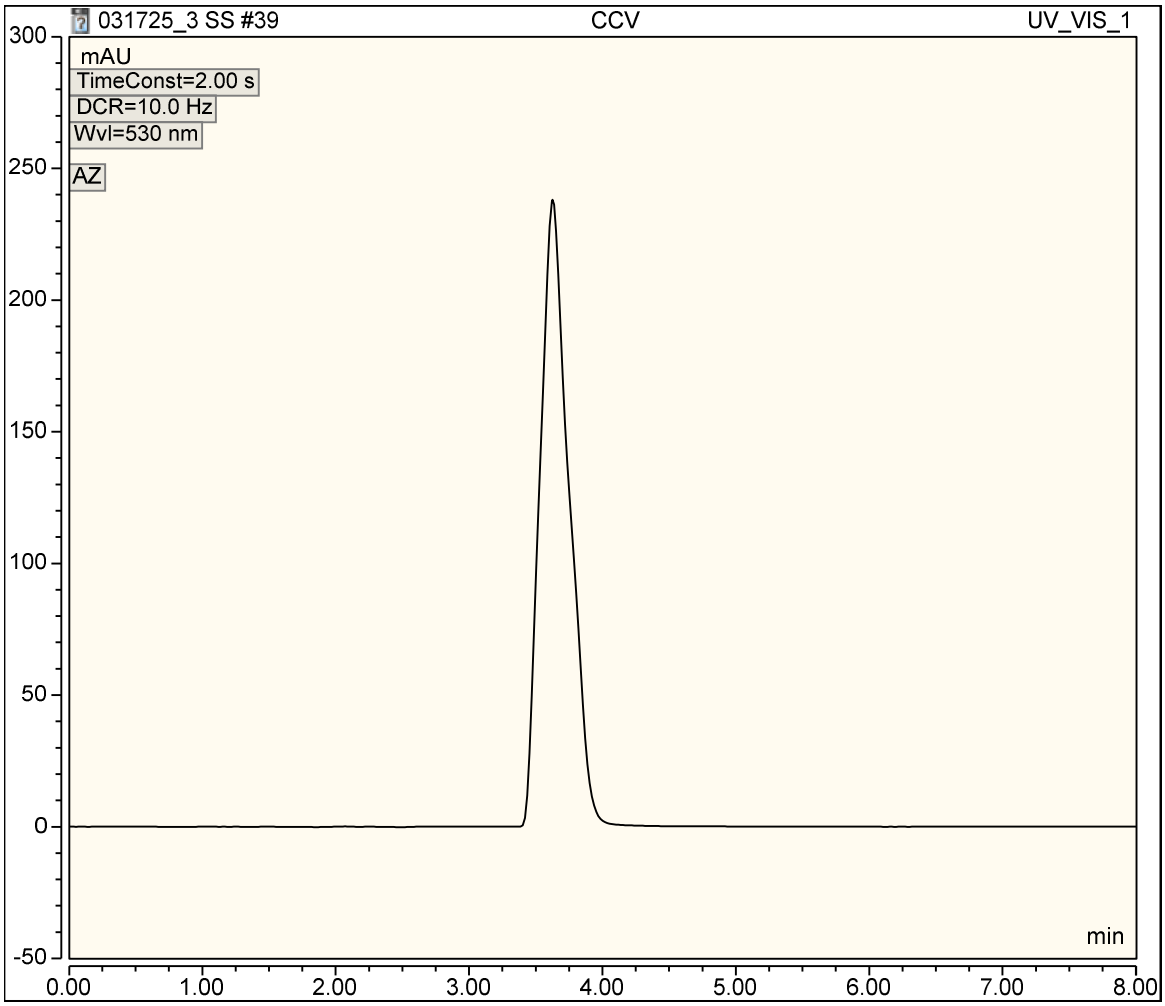


Export for Tree/Integration

PeakNet 6 (r) Dionex 2001
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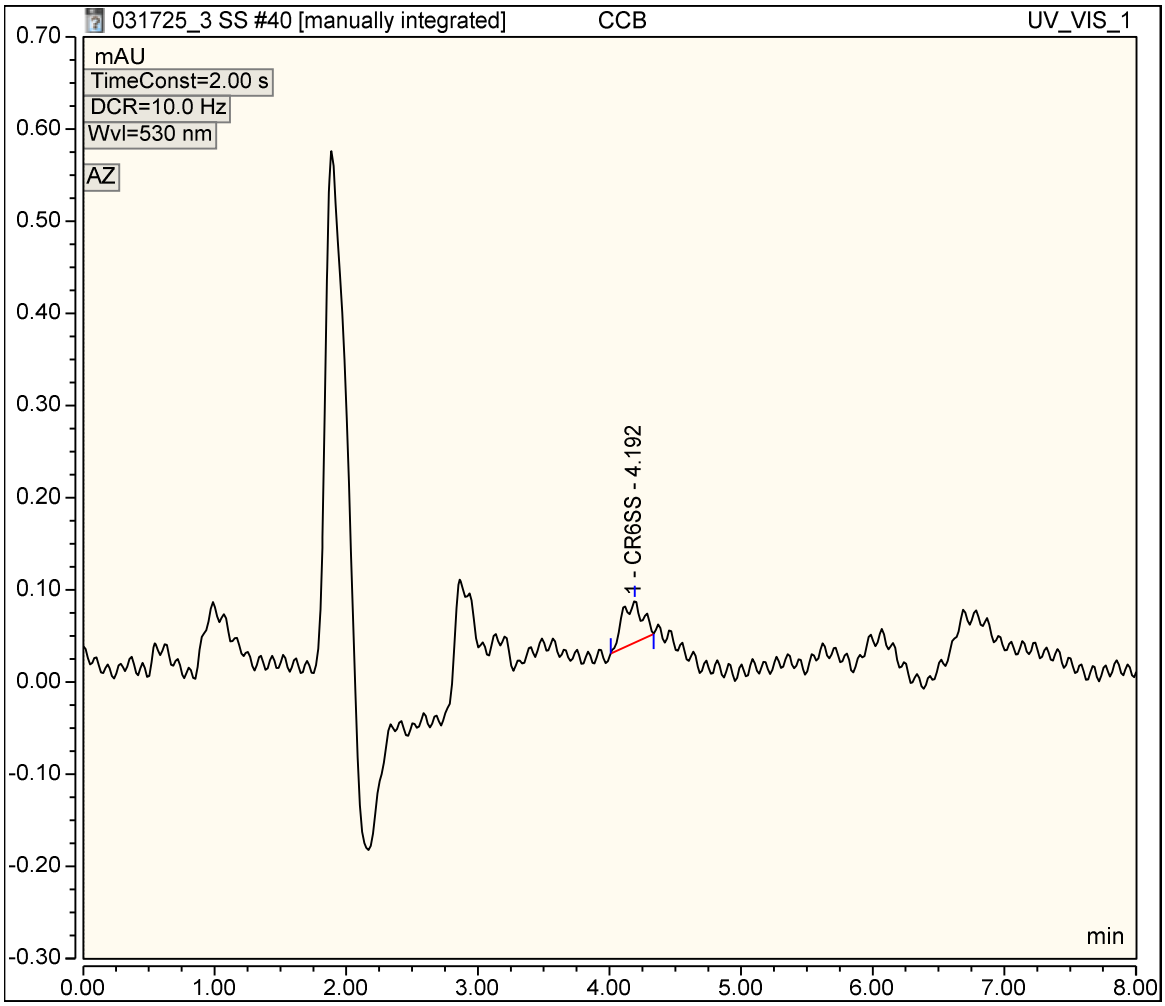
Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 01:46**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**CCB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: VS117 031825**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 03:10**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.19	CR6SS	BMB*	0.008	0.045	n.a.
		TOTAL:		0.01	0.05	0.00

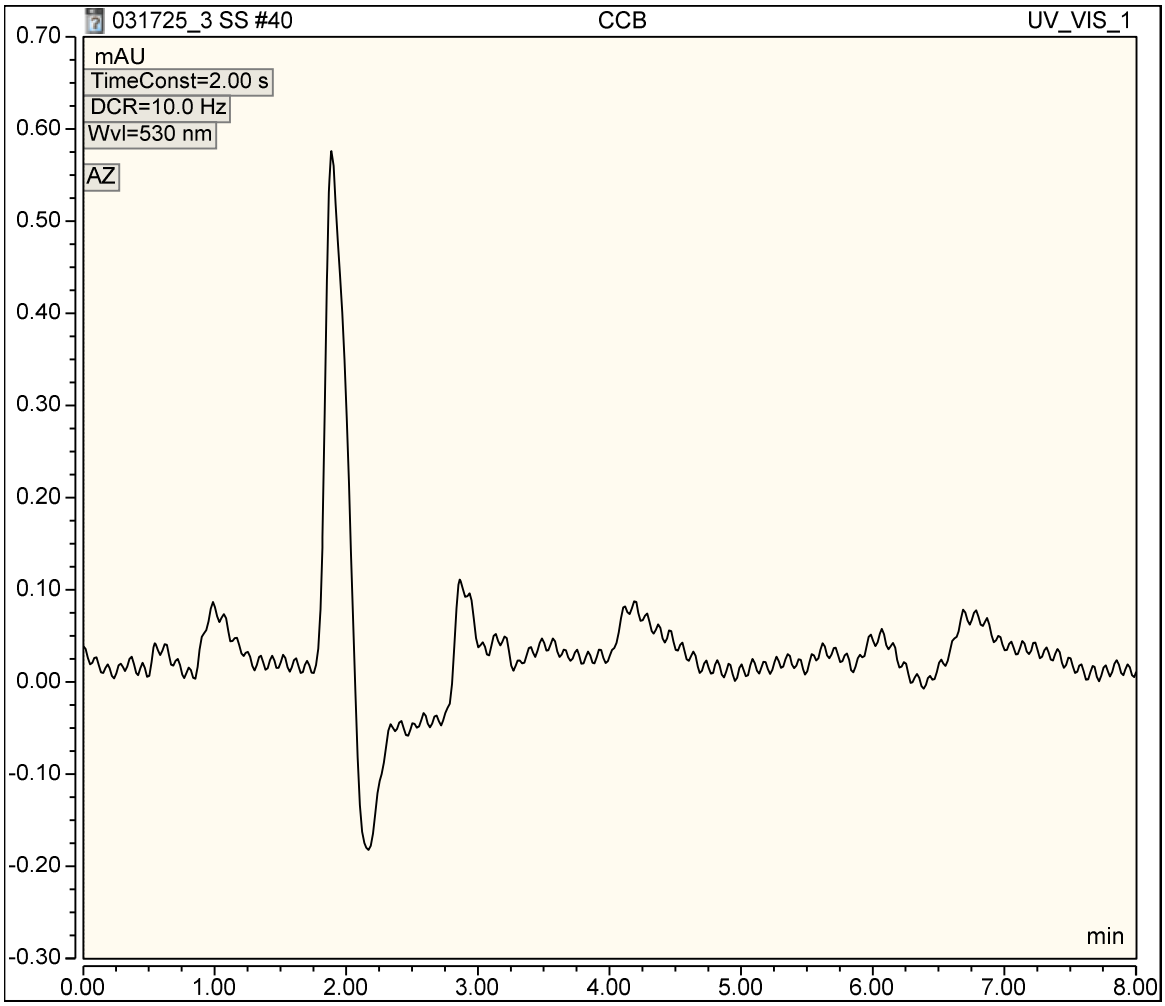


Export for Tree/Integration

PeakNet 6 (r) Dionex 2001
Version 7.2.10.23925

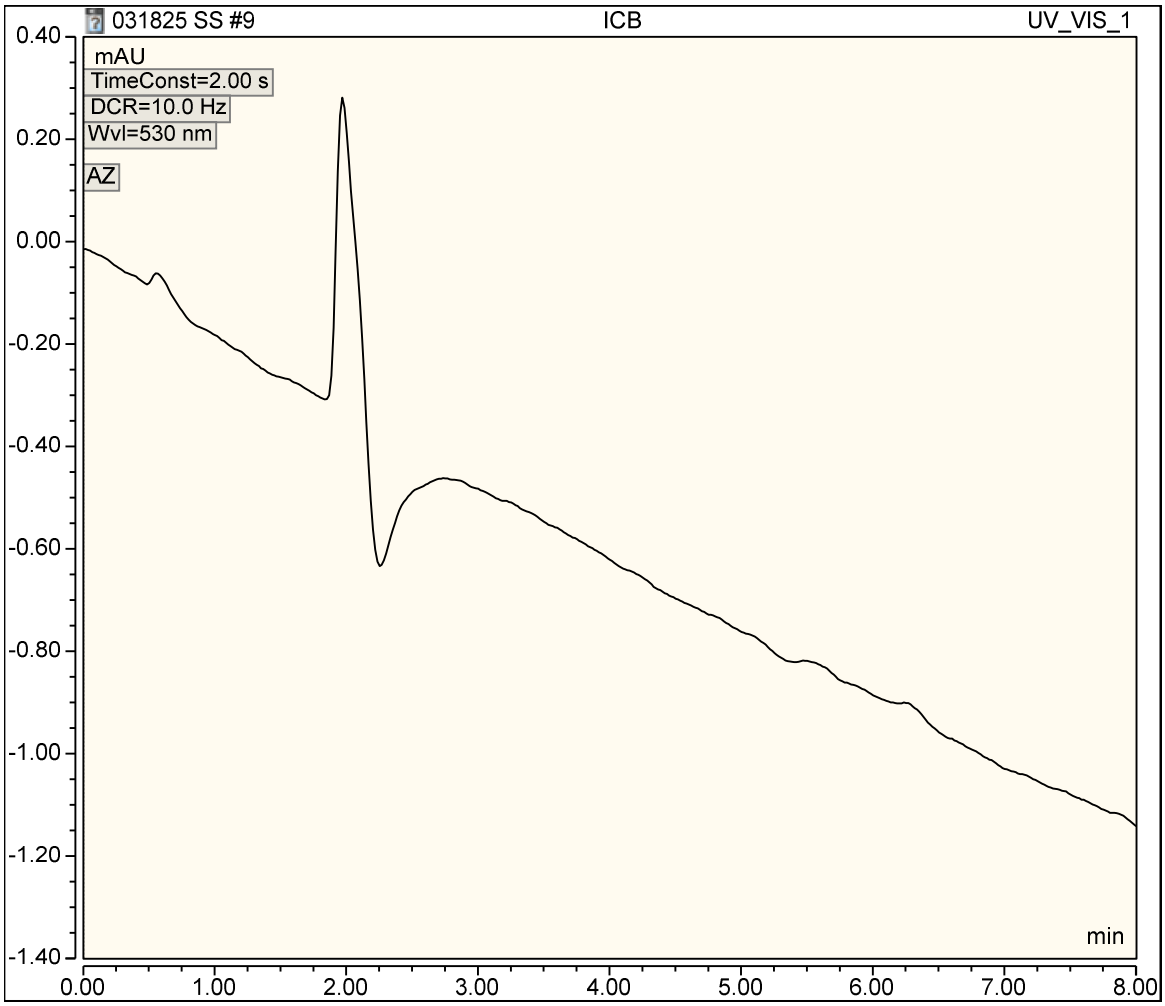
Sample Name:	**CCB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 03:10**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



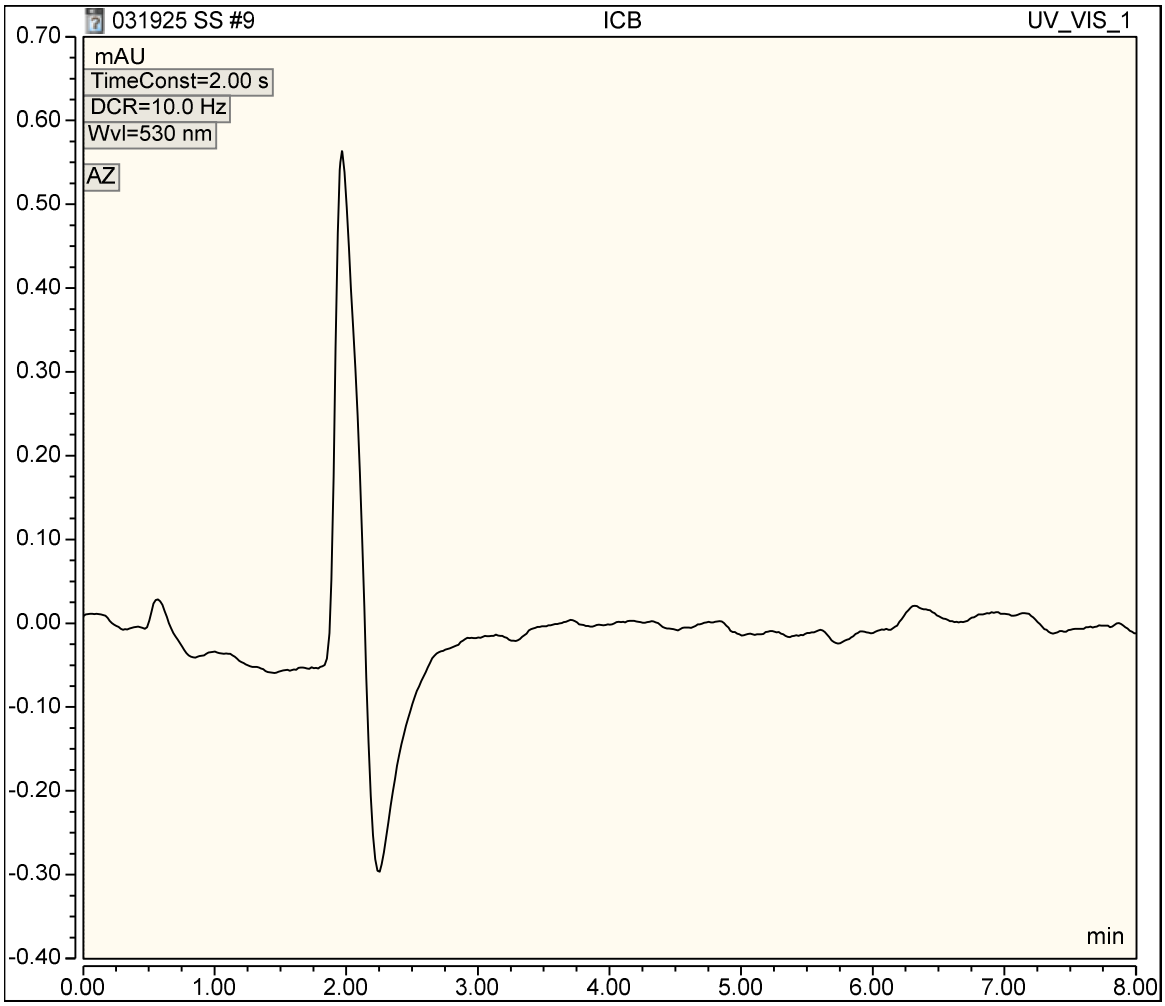
Sample Name:	**ICB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 22:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



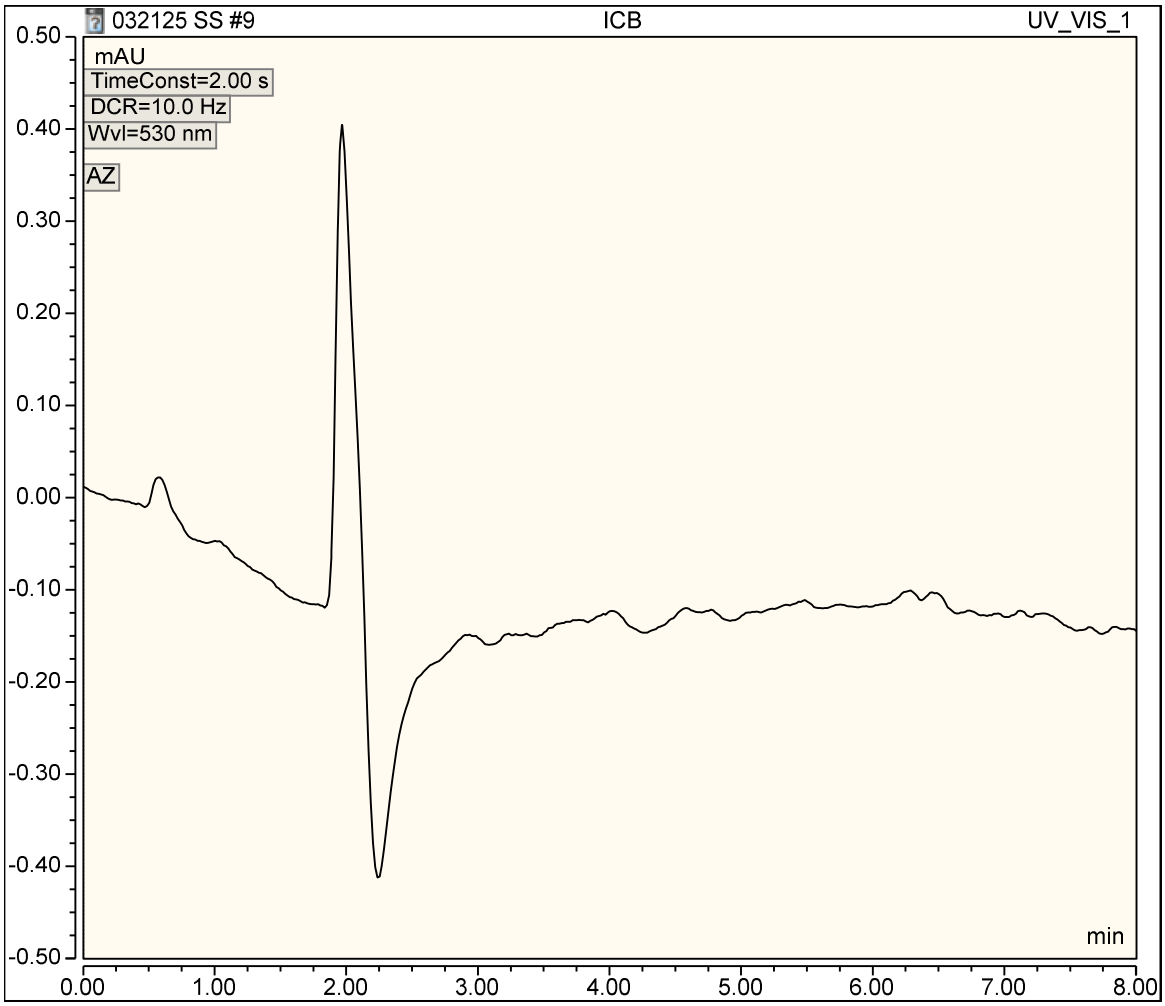
Sample Name:	**ICB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/19/25 17:18**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**ICB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 08:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



CR6IC SS Metals Prep Benchsheet

Batch: WG2469425

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834873	WG2468747	KMT967	PREPREPBAL4	14-MAR-25
L1834879	WG2468747	KMT967	PREPREPBAL4	14-MAR-25
L1835310	WG2469551	BJM688	PREPREPBAL2	15-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25
L1836591	WG2469739	CLC4087	PREPREPBAL2	15-MAR-25
L1836596	WG2469739	CLC4087	PREPREPBAL2	15-MAR-25

Analyst: ANW4260 **Prep Start Date/Time:** 03/16/25 16:12-16:13 **Prep End Date/Time:** 03/16/25 23:50 **Dig Start Date/Time:** 03/16/25 21:20:17
Dig End Date/Time: 03/16/25 22:20:25 **Dig Start Analyst:** ANW4260 **Dig End Analyst:** ANW4260 **Digest Soln. pH:** 13.72 **Phosphate Buffer pH:** 6.94
SOP: MTJL-0201 **Method:** 3060A **Balance ID:** WETBAL13 **Instrument Name:** IC30 **ICV True Value:** 0.5 ppm **LCS True Value:** 0.25 ppm
ALTSTD True Value: 0.25 ppm **MS/D True Value:** 20 mg/kg **Syringe Lot#:** 241125 **0.45 PVDF Filter Lot#:** 329076081 **0.2 Nylon Filter Lot#:** 325116166
10mL Pipette Lot#: 101052037 **5mL Pipette Lot#:** NA **1mL Auto Pipette SN:** 101109405 **1mL Auto Pipette Tip Lot#:** 24240064
IC Cap/Vial Lot#: 3250-18351/LV24071515-4339-4343 **Thermometer SN:** 942757 **ThermoCorrectFact:** 0.0 **pH Probe SN:** CV1-13153 **pH Metals:** V18914
Tongue Depressor Lot#: P00638 **HotBlock SN/ Therm. Location:** CR6IC-A/C5 **Digestion Tube Lot #:** LV24080204-5002-MT **IR Gun ID:** NA
Cal Reference WG: WG2468380 **Uncorr Temp Off:** 91 **Uncorr Temp On:** 94 **Corrected Temp Off:** 91 **Corrected Temp On:** 94 **Timer SN:** 240665869

ICV Standard: 25C16390 Amt. Used: 5 mL Exp. Date:03/17/25 **LCS/D Standard:** 25C16388 Amt. Used: 5 mL Exp. Date:03/17/25
MS/D Standard: 25C16388 Amt. Used: 10 mL Exp. Date:03/17/25 **Digestion Solution:** 25C16373 Amt. Used: 50 mL Exp. Date:04/16/25
MgCl2: 24J29807 Amt. Used: 0.20 g Exp. Date:12/12/26 **1.0M Phosphate Solution:** 25B13631 Amt. Used: 0.50 mL Exp. Date:02/28/27
5N HNO3: 25C14220 Exp. Date:06/14/25 **Eluent:** 25C16394 Exp. Date:09/16/25 **Color Reagent:** 25C16393 Exp. Date:03/19/25
PbCrO4: 23E16030 Amt. Used: 0.01 g Exp. Date:04/24/33 **Sand:** 24J29806 Amt. Used: 2.50 g Exp. Date:02/28/28

Sample Number	Initial Sample Wt. (g)	Final Volume (mL)	Dilution Factor	1stTemp/CorrectTemp (C°)	2ndTemp/CorrectTemp (C°)	Final Adjusted pH	Date/Time pH adj.	Review Analyst	Review Date
BLANK	2.52	100	1	94/94	94/94	9.14	031625/2244	ANW4260	03/16/25 23:50:39
LCS	2.48	100	1	94/94	94/94	9.22	031625/2244	ANW4260	03/16/25 23:50:39
DUP(L1834873-06)	2.53	100	1	94/94	94/94	9.41	031625/2244	ANW4260	03/16/25 23:50:39
DUP(L1836596-02)	2.48	100	1	94/94	94/94	9.44	031625/2244	ANW4260	03/16/25 23:50:39
MS(L1835011-01)	2.50	100	1	94/94	94/94	9.42	031625/2244	ANW4260	03/16/25 23:50:39
MSD(L1835011-01)	2.46	100	1	94/94	94/94	9.35	031625/2244	ANW4260	03/16/25 23:50:39
Ins MS(L1835011-01)	2.47	100	1	94/94	94/94	9.26	031625/2244	ANW4260	03/16/25 23:50:39
1. L1828604-10	2.53	100	1	94/94	94/94	9.31	031625/2244	ANW4260	03/16/25 23:50:39
2. L1834873-04	2.54	100	1	94/94	94/94	9.46	031625/2244	ANW4260	03/16/25 23:50:39
3. L1834873-05	2.45	100	1	94/94	94/94	9.48	031625/2244	ANW4260	03/16/25 23:50:39
4. L1834873-06	2.46	100	1	94/94	94/94	9.31	031625/2244	ANW4260	03/16/25 23:50:39
5. L1834879-01	2.46	100	1	94/94	94/94	9.40	031625/2244	ANW4260	03/16/25 23:50:39
6. L1834879-02	2.45	100	1	94/94	94/94	9.26	031625/2244	ANW4260	03/16/25 23:50:39
7. L1834879-03	2.51	100	1	94/94	94/94	9.28	031625/2244	ANW4260	03/16/25 23:50:39
8. L1834879-04	2.54	100	1	94/94	94/94	9.40	031625/2244	ANW4260	03/16/25 23:50:39
9. L1834879-05	2.47	100	1	94/94	94/94	9.11	031625/2244	ANW4260	03/16/25 23:50:39
10. L1835011-01	2.47	100	1	94/94	94/94	9.11	031625/2244	ANW4260	03/16/25 23:50:39
11. L1835011-02	2.54	100	1	94/94	94/94	9.42	031625/2244	ANW4260	03/16/25 23:50:39
12. L1835011-03	2.51	100	1	94/94	94/94	9.29	031625/2244	ANW4260	03/16/25 23:50:39
13. L1835310-01	2.54	100	1	94/94	94/94	9.40	031625/2244	ANW4260	03/16/25 23:50:39
14. L1835310-02	2.55	100	1	94/94	94/94	9.14	031625/2244	ANW4260	03/16/25 23:50:39
15. L1835310-03	2.45	100	1	94/94	94/94	9.02	031625/2244	ANW4260	03/16/25 23:50:39
16. L1835568-01	2.53	100	1	94/94	94/94	9.37	031625/2244	ANW4260	03/16/25 23:50:39
17. L1836591-01	2.55	100	1	94/94	94/94	9.45	031625/2244	ANW4260	03/16/25 23:50:39
18. L1836591-02	2.48	100	1	94/94	94/94	9.12	031625/2244	ANW4260	03/16/25 23:50:39
19. L1836596-01	2.52	100	1	94/94	94/94	9.30	031625/2244	ANW4260	03/16/25 23:50:39
20. L1836596-02	2.55	100	1	94/94	94/94	9.10	031625/2244	ANW4260	03/16/25 23:50:39

Comments:

Reviewed By:ANW4260 on 03/16/25 23:50:39

CR6IC SS Metals Prep Benchsheet

Batch: WG2470186

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25
L1836601	WG2469743	CLC4087	PREPREPBAL3	15-MAR-25

Analyst: EKB4186 **Prep Start Date/Time:** 03/17/25 09:59-11:32 **Prep End Date/Time:** 03/17/25 21:26 **Dig Start Date/Time:** 03/17/25 14:11:59
Dig End Date/Time: 03/17/25 15:11:09 **Dig Start Analyst:** EKB4186 **Dig End Analyst:** EKB4186 **Digest Soln. pH:** 13.72 **Phosphate Buffer pH:** 6.94
SOP: MTJL-0201 **Method:** 3060A **Balance ID:** WETBAL13 **Instrument Name:** IC30 **ICV True Value:** 0.5 ppm **LCS True Value:** 0.25 ppm
ALTSTD True Value: 0.25 ppm **MS/D True Value:** 20 mg/kg **Syringe Lot#:** 241125 **0.45 PVDF Filter Lot#:** 329076081 **0.2 Nylon Filter Lot#:** 325116166
10mL Pipette Lot#: 101052037 **5mL Pipette Lot#:** NA **1mL Auto Pipette SN:** 101109405 **1mL Auto Pipette Tip Lot#:** 24240064
IC Cap/Vial Lot#: 3250-18351/LV24071515-4339-4343 **Thermometer SN:** 942757 **ThermoCorrectFact:** 0.0 **pH Probe SN:** CV1-13153 **pH Metals:** V18914
Tongue Depressor Lot#: P00638 **HotBlock SN/ Therm. Location:** CR6IC-A/E7 **Digestion Tube Lot #:** LV24080204-5002-MT **IR Gun ID:** NA
Cal Reference WG: WG2468380 **Uncorr Temp Off:** 90 **Uncorr Temp On:** 92 **Corrected Temp Off:** 90 **Corrected Temp On:** 92 **Timer SN:** 240665869

ICV Standard: 25C16390 Amt. Used: 5 mL Exp. Date:03/17/25 **LCS/D Standard:** 25C16388 Amt. Used: 5 mL Exp. Date:03/17/25
MS/D Standard: 25C16388 Amt. Used: 10 mL Exp. Date:03/17/25 **Digestion Solution:** 25C16373 Amt. Used: 50 mL Exp. Date:04/16/25
MgCl2: 24J29807 Amt. Used: 0.20 g Exp. Date:12/12/26 **1.0M Phosphate Solution:** 25B13631 Amt. Used: 0.50 mL Exp. Date:02/28/27
5N HNO3: 25C14220 Exp. Date:06/14/25 **Eluent:** 25C16394 Exp. Date:09/16/25 **Color Reagent:** 25C16393 Exp. Date:03/19/25
PbCrO4: 23E16030 Amt. Used: 0.01 g Exp. Date:04/24/33 **Sand:** 24J29806 Amt. Used: 2.45 g Exp. Date:02/28/28

Sample Number	Initial Sample Wt. (g)	Final Volume (mL)	Dilution Factor	1stTemp/CorrectTemp (C°)	2ndTemp/CorrectTemp (C°)	Final Adjusted pH	Date/Time pH adj.	Review Analyst	Review Date
BLANK	2.50	100	1	92/92	92/92	9.43	031725/1725	ANW4260	03/17/25 21:27:15
LCS	2.52	100	1	92/92	92/92	9.21	031725/1725	ANW4260	03/17/25 21:27:15
DUP(L1835568-06)	2.54	100	1	92/92	92/92	9.44	031725/1725	ANW4260	03/17/25 21:27:15
DUP(L1835568-08)	2.50	100	1	92/92	92/92	9.29	031725/1725	ANW4260	03/17/25 21:27:15
MS(L1836601-09)	2.50	100	1	92/92	92/92	9.11	031725/1725	ANW4260	03/17/25 21:27:15
MSD(L1836601-09)	2.50	100	1	92/92	92/92	9.35	031725/1725	ANW4260	03/17/25 21:27:15
Ins MS(L1836601-09)	2.51	100	1	92/92	92/92	9.15	031725/1725	ANW4260	03/17/25 21:27:15
1. L1835568-02	2.46	100	1	92/92	92/92	9.04	031725/1725	ANW4260	03/17/25 21:27:15
2. L1835568-03	2.49	100	1	92/92	92/92	9.01	031725/1725	ANW4260	03/17/25 21:27:15
3. L1835568-04	2.47	100	1	92/92	92/92	9.14	031725/1725	ANW4260	03/17/25 21:27:15
4. L1835568-05	2.52	100	1	92/92	92/92	9.15	031725/1725	ANW4260	03/17/25 21:27:15
5. L1835568-06	2.50	100	1	92/92	92/92	9.17	031725/1725	ANW4260	03/17/25 21:27:15
6. L1835568-07	2.48	100	1	92/92	92/92	9.12	031725/1725	ANW4260	03/17/25 21:27:15
7. L1835568-08	2.50	100	1	92/92	92/92	9.49	031725/1725	ANW4260	03/17/25 21:27:15
8. L1835568-09	2.45	100	1	92/92	92/92	9.40	031725/1725	ANW4260	03/17/25 21:27:15
9. L1836601-01	2.53	100	1	92/92	92/92	9.25	031725/1725	ANW4260	03/17/25 21:27:15
10. L1836601-02	2.48	100	1	92/92	92/92	9.16	031725/1725	ANW4260	03/17/25 21:27:15
11. L1836601-03	2.47	100	1	92/92	92/92	9.09	031725/1725	ANW4260	03/17/25 21:27:15
12. L1836601-04	2.50	100	1	92/92	92/92	9.23	031725/1725	ANW4260	03/17/25 21:27:15
13. L1836601-05	2.48	100	1	92/92	92/92	9.12	031725/1725	ANW4260	03/17/25 21:27:15
14. L1836601-06	2.47	100	1	92/92	92/92	9.06	031725/1725	ANW4260	03/17/25 21:27:15
15. L1836601-07	2.45	100	1	92/92	92/92	9.09	031725/1725	ANW4260	03/17/25 21:27:15
16. L1836601-08	2.52	100	1	92/92	92/92	9.03	031725/1725	ANW4260	03/17/25 21:27:15
17. L1836601-09	2.54	100	1	92/92	92/92	9.49	031725/1725	ANW4260	03/17/25 21:27:15

Comments:

Reviewed By:ANW4260 on 03/17/25 21:27:15

7471B Mercury

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-I-SO

Lab Sample ID:	L1835568-01	**SDG:**	L1835568
Client Sample ID:	CLINTON-SCHOOL-DITCH-I-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250319171040	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:20
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 17:10
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.34 g
Total Solids (%):	67.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0306	0.0595

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-02	**SDG:**	L1835568
Client Sample ID:	18-901-I-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	20250319171321	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:20
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 17:13
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.33 g
Total Solids (%):	68.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0299	0.0580

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
K-18-I-SO

Lab Sample ID:	L1835568-03	**SDG:**	L1835568
Client Sample ID:	K-18-I-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	20250319171602	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:20
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 17:16
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	65.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0315	0.0611

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
P-230-I-SO

Lab Sample ID:	L1835568-04	**SDG:**	L1835568
Client Sample ID:	P-230-I-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	20250319171843	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:20
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 17:18
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.34 g
Total Solids (%):	65.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0314	0.0611

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-05	**SDG:**	L1835568
Client Sample ID:	P-350-I-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	20250319173257	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:20
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 17:32
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.34 g
Total Solids (%):	68.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0302	0.0587

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-06	**SDG:**	L1835568
Client Sample ID:	NHR-I-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250319173538	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:20
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 17:35
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	83.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0248	0.0481

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DUP-SO-031125

Lab Sample ID:	L1835568-07	**SDG:**	L1835568
Client Sample ID:	DUP-SO-031125	**Collected Date/Time:**	03/11/25 17:00
Lab File ID:	20250319173818	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:20
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 17:38
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.35 g
Total Solids (%):	69.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0295	0.0573

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-08	**SDG:**	L1835568
Client Sample ID:	FLYASH-I-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	20250319174059	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:20
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 17:40
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.32 g
Total Solids (%):	58.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.816		0.0350	0.0679

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SO

Lab Sample ID:	L1835568-09	**SDG:**	L1835568
Client Sample ID:	MONTROSE-LAKE-I-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	20250319174340	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:20
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 17:43
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.28 g
Total Solids (%):	71.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0289	0.0562

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188475-1	**SDG:**	L1835568
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250319162757	**Received Date/Time:**	
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:19
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 16:27
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188475-2	**SDG:**	L1835568
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250319163038	**Received Date/Time:**	_____
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:19
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 16:30
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.434		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188475-4	**SDG:**	L1835568
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 10:17
Lab File ID:	20250319163841	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:19
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 16:38
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.31 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.464		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188475-5	**SDG:**	L1835568
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 10:17
Lab File ID:	20250319164120	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:19
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 16:41
Dilution Factor:	1	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.29 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	0.510		0.0206	0.0400

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188475-3	**SDG:**	L1835568
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 10:17
Lab File ID:	20250319163600	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/17/25 17:20
Analytical Batch:	WG2470127	**Analysis Date/Time:**	03/19/25 16:36
Dilution Factor:	5	**Prep Method:**	7471A
Analytical Method:	7471B	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.30 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Mercury	7439-97-6	U		0.103	0.200

CALIBRATION VERIFICATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S
Concentration Units:	mg/kg		

		ICV				**ICVLL**				**CCV**			
Sample ID:		CVAA90319251126				CVAA90319251143				CVAA90319251616			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.005000227	100	0.944000	0.0002	0.0001856904	92.80	4.180000	0.0050	0.004854121	97.10	1.990000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110 CCVLL Limits: 70 - 130

CALIBRATION VERIFICATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S
Concentration Units:	mg/kg		

		CCV				**CCV**				**CCVLL**			
Sample ID:		CVAA90319251649				CVAA90319251721				CVAA90319251727			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.004858395	97.20	1.670000	0.0050	0.004820355	96.40	1.960000	0.0002	0.0001711067	85.60	1.000000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110 CCVLL Limits: 70 - 130

CALIBRATION VERIFICATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S
Concentration Units:	mg/kg		

CCV

Sample ID: CVAA90319251759

Analyte	True	Found	%R	%RSD
MERCURY	0.0050	0.004833537	96.70	1.850000

ICV Limits: 90 - 110 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110 CCVLL Limits: 70 - 130

SDG:	L1835568	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250319112917		20250319161845		20250319162757		20250319165159	
Analyte	mg/kg		mg/kg		mg/kg		mg/kg	
MERCURY	-0.00006264097	U	-0.00005947694	U	U		-0.00006129555	U

SDG:	L1835568	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250319172402		20250319180213	
Analyte	mg/kg		mg/kg	
MERCURY	-0.00005975434	U	-0.00005437074	U

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835568-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4188475-4
R4188475-5

MS Sample / File ID:	R4188475-4 / 20250319163841	**SDG:**	L1835568
MSD Sample / File ID:	R4188475-5 / 20250319164120	**Analytical Batch:**	WG2470127
OS Sample / File ID:	L1835378-09 / 20250319163319	**Matrix:**	Solid
Instrument ID:	CVAA9		
Analytical Method:	7471B		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Mercury	0.500	U	0.464	0.510	92.8	102	1	75.0 - 125	9.42	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835568-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4188475-2

LCS Sample / File ID:	R4188475-2 / 20250319163038	**SDG:**	L1835568
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2470127
Instrument ID:	CVAA9	**Dilution Factor:**	1
Analytical Method:	7471B	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Mercury	0.500	0.434		86.9		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ICP AND ICP/MS SERIAL DILUTIONS

L1835568-01,02,03,04,05,06,07,08,09

SD Sample / File ID:	R4188475-3 / 20250319163600	**SDG:**	L1835568
OS Sample / File ID:	L1835378-09 / 20250319163319	**Analytical Batch:**	WG2470127
Lab File ID:	20250319163600	**Dilution Factor:**	5
Instrument ID:	CVAA9	**Matrix:**	Solid
Analytical Method:	7471B		

Analyte	OS Result	SD Result	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Mercury	U	U	0.000	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835568-01,02,03,04,05,06,07,08,09
Matrix: Solid
Analytical Method: 7471B
Prep Method: 7471A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Mercury	7439-97-6		253.70	0.0206	0.04

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1835568	**Analytical Method:**	7471B
Instrument ID:	CVAA9	**Date:**	07/10/23 14:11

Analyte	LDR
	ppm
MERCURY	0.01

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	7471B
Instrument ID:	CVAA9	**Calibration Start Date:**	03/19/25 11:09
Analytical Run:	031925CVAA9 S	**Calibration End Date:**	03/19/25 11:22

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	CVAA90319251106	20250319110650	03/19/25 11:06		
CAL	STD 0.2	20250319110927	03/19/25 11:09		
CAL	STD 0.4	20250319111205	03/19/25 11:12		
CAL	STD 1.0	20250319111444	03/19/25 11:14		
CAL	STD 2.0	20250319111723	03/19/25 11:17		
CAL	STD 5.0	20250319112003	03/19/25 11:20		
CAL	STD 10.0	20250319112240	03/19/25 11:22		
ICV	CVAA90319251126	20250319112639	03/19/25 11:26		
ICB	CVAA90319251129	20250319112917	03/19/25 11:29		
ICVLL	CVAA90319251143	20250319114322	03/19/25 11:43		
CCV	CVAA90319251616	20250319161606	03/19/25 16:16		
CCB	CVAA90319251618	20250319161845	03/19/25 16:18		
L1836857-03	L1836857-03	20250319162122	03/19/25 16:21	1	WG2471947
L1837405-01	L1837405-01	20250319162404	03/19/25 16:24	1	WG2471947
BLANK	R4188475-1	20250319162757	03/19/25 16:27	1	WG2470127
LCS	R4188475-2	20250319163038	03/19/25 16:30	1	WG2470127
OS	L1835378-09	20250319163319	03/19/25 16:33		
L1835378-09	L1835378-09	20250319163319	03/19/25 16:33	1	WG2470127
SD	R4188475-3	20250319163600	03/19/25 16:36	5	WG2470127
MS	R4188475-4	20250319163841	03/19/25 16:38	1	WG2470127
MSD	R4188475-5	20250319164120	03/19/25 16:41	1	WG2470127
L1835285-16	L1835285-16	20250319164400	03/19/25 16:44	1	WG2470127
L1835285-18	L1835285-18	20250319164641	03/19/25 16:46	1	WG2470127
CCV	CVAA90319251649	20250319164921	03/19/25 16:49		
CCB	CVAA90319251651	20250319165159	03/19/25 16:51		
L1835285-19	L1835285-19	20250319165436	03/19/25 16:54	1	WG2470127
L1835285-20	L1835285-20	20250319165716	03/19/25 16:57	1	WG2470127
L1835285-21	L1835285-21	20250319165955	03/19/25 16:59	1	WG2470127
L1835285-22	L1835285-22	20250319170236	03/19/25 17:02	1	WG2470127
L1835285-23	L1835285-23	20250319170517	03/19/25 17:05	1	WG2470127
L1835560-08	L1835560-08	20250319170759	03/19/25 17:07	1	WG2470127
CLINTON-SCHOOL-DITCH-I-SO	L1835568-01	20250319171040	03/19/25 17:10	1	WG2470127
18-901-I-SO	L1835568-02	20250319171321	03/19/25 17:13	1	WG2470127
K-18-I-SO	L1835568-03	20250319171602	03/19/25 17:16	1	WG2470127
P-230-I-SO	L1835568-04	20250319171843	03/19/25 17:18	1	WG2470127
CCV	CVAA90319251721	20250319172124	03/19/25 17:21		
CCB	CVAA90319251724	20250319172402	03/19/25 17:24		
CCVLL	CVAA90319251727	20250319172711	03/19/25 17:27		
P-350-I-SO	L1835568-05	20250319173257	03/19/25 17:32	1	WG2470127
NHR-I-SO	L1835568-06	20250319173538	03/19/25 17:35	1	WG2470127
DUP-SO-031125	L1835568-07	20250319173818	03/19/25 17:38	1	WG2470127
FLYASH-I-SO	L1835568-08	20250319174059	03/19/25 17:40	1	WG2470127
MONTROSE-LAKE-I-SO	L1835568-09	20250319174340	03/19/25 17:43	1	WG2470127
L1835978-01	L1835978-01	20250319174622	03/19/25 17:46	1	WG2470127
L1835978-02	L1835978-02	20250319174903	03/19/25 17:49	1	WG2470127
CCV	CVAA90319251759	20250319175935	03/19/25 17:59		
CCB	CVAA90319251802	20250319180213	03/19/25 18:02		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0002	.0001690958	84.50	0.0004	.0003702083	92.60
File ID:		20250319110927			20250319111205	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0010	.001067663	107	0.0020	.002024634	101
File ID:		20250319111444			20250319111723	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/kg	mg/kg	%	mg/kg	mg/kg	%
MERCURY	0.0050	.00508807	102	0.01	.00994608	99.50
File ID:		20250319112003			20250319112240	

16A-IN

INITIAL CALIBRATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/19/25 11:09
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/19/25 11:22
Analytical Method:	7471B	**Analytical Run:**	031925CVAA9 S

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
MERCURY	253.7	0	5	0.999864	22.29176	0.001466

Calibration Type

0 = Linear Regression

Weightage

5 = None

Sample ID: CALIBRATION BLANK Units: mg/kg
Analyzed: 03/19/25 11:06 Sequence: 1 Standard ID:

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.0001849035	0.0001516996	0.0001541954	0.0002488155

Sample ID: STD 0.2 Units: mg/kg
Analyzed: 03/19/25 11:09 Sequence: 2 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.005235204	0.004852522	0.005684252	0.005168838

Sample ID: STD 0.4 Units: mg/kg
Analyzed: 03/19/25 11:12 Sequence: 3 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.009718356	0.009913081	0.009287603	0.009954383

Sample ID: STD 1.0 Units: mg/kg
Analyzed: 03/19/25 11:14 Sequence: 4 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.02526585	0.02543715	0.02492830	0.02543211

Sample ID: STD 2.0 Units: mg/kg
Analyzed: 03/19/25 11:17 Sequence: 5 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.04659842	0.04727747	0.04607168	0.04644612

Sample ID: STD 5.0 Units: mg/kg
Analyzed: 03/19/25 11:20 Sequence: 6 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.1148878	0.1160191	0.1144379	0.1142066

Sample ID: STD 10.0 Units: mg/kg
Analyzed: 03/19/25 11:22 Sequence: 7 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.2231814	0.2267777	0.2222505	0.2205159

Sample ID: ICV Units: mg/kg
Analyzed: 03/19/25 11:26 Sequence: 8 Standard ID: 25C14191

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.1129296	0.005000227	0.005054703	0.004974649	0.004971327

Sample ID: ICB Units: mg/kg
Analyzed: 03/19/25 11:29 Sequence: 9

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00006938984	-0.00006264097	-0.00006448654	-0.00006930579	-0.00005413058

Sample ID: ICVLL Units: mg/kg
Analyzed: 03/19/25 11:43 Sequence: 12 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.005605132	0.0001856904	0.0001853696	0.0001781021	0.0001935994

Sample ID: CCV Units: mg/kg
Analyzed: 03/19/25 16:16 Sequence: 108 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.1096727	0.004854121	0.004965569	0.004794989	0.004801807

Sample ID: CCB Units: mg/kg
Analyzed: 03/19/25 16:18 Sequence: 109

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001399217	-0.00005947694	-0.00005949612	-0.00005827673	-0.00006065795

Sample ID: L1836857-03 DF: 1x Batch: WG2471947 Units: mg/kg
Analyzed: 03/19/25 16:21 Sequence: 110

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002689410	0.00005489218	0.00006068481	0.00005345898	0.00005053274

Sample ID: L1837405-01 DF: 1x Batch: WG2471947 Units: mg/kg
Analyzed: 03/19/25 16:24 Sequence: 111

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.005489956	0.0001805236	0.0001856892	0.0001780098	0.0001778719

Sample ID: BLANK DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:27 Sequence: 112

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001341814	-0.00005973444	-0.00005126989	-0.00006515282	-0.00006278062

Sample ID: LCS DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:30 Sequence: 113

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05955574	0.002605895	0.002644861	0.002585262	0.002587561

Sample ID: L1835378-09 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:33 Sequence: 114

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002225954	0.00003410171	0.00003751013	0.00003251467	0.00003228031

Sample ID: SD DF: 5x Ref Sample ID: L1835378-09 Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:36 Sequence: 115

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0003751392	-0.00004892517	-0.0002362893	-0.0002501280	-0.0002474602

Sample ID: MS DF: 1x Ref Sample ID: L1835378-09 Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:38 Sequence: 116

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06560915	0.002877448	0.002938182	0.002852096	0.002842068

Sample ID: MSD DF: 1x Ref Sample ID: L1835378-09 Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:41 Sequence: 117

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06740487	0.002958004	0.003021343	0.002929411	0.002923257

Sample ID: L1835285-16 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:44 Sequence: 118

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.008823330	0.0003300576	0.0003413747	0.0003244484	0.0003243496

Sample ID: L1835285-18 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:46 Sequence: 119

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.01136298	0.0004439855	0.0004553450	0.0004375016	0.0004391099

Sample ID: CCV Units: mg/kg
Analyzed: 03/19/25 16:49 Sequence: 120 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.1097679	0.004858395	0.004952259	0.004813696	0.004809229

Sample ID: CCB Units: mg/kg
Analyzed: 03/19/25 16:51 Sequence: 121

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00009938170	-0.00006129555	-0.00006056102	-0.00006011007	-0.00006321556

Sample ID: L1835285-19 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:54 Sequence: 122

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.007392709	0.0002658804	0.0002724402	0.0002613051	0.0002638959

Sample ID: L1835285-20 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:57 Sequence: 123

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.006559419	0.0002284994	0.0002339184	0.0002281237	0.0002234560

Sample ID: L1835285-21 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 16:59 Sequence: 124

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.007423864	0.0002672780	0.0002756634	0.0002630301	0.0002631405

Sample ID: L1835285-22 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:02 Sequence: 125

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.007994173	0.0002928619	0.0003015106	0.0002890892	0.0002879859

Sample ID: L1835285-23 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:05 Sequence: 126

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.006969837	0.0002469105	0.0002559712	0.0002402581	0.0002445023

Sample ID: L1835560-08 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:07 Sequence: 127

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002127250	0.00002967387	0.00003231030	0.00002741178	0.00002929955

Sample ID: L1835568-01 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:10 Sequence: 128

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001796751	0.00001484783	0.00001736725	0.00001315114	0.00001402509

Sample ID: L1835568-02 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:13 Sequence: 129

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001886785	0.00001888672	0.00002089226	0.00001898190	0.00001678600

Sample ID: L1835568-03 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:16 Sequence: 130

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002174317	0.00003178527	0.00003494759	0.00002946317	0.00003094507

Sample ID: L1835568-04 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:18 Sequence: 131

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002731642	0.00005678668	0.00005870562	0.00005667573	0.00005497868

Sample ID: CCV Units: mg/kg
Analyzed: 03/19/25 17:21 Sequence: 132 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.1089200	0.004820355	0.004926031	0.004744516	0.004790519

Sample ID: CCB Units: mg/kg
Analyzed: 03/19/25 17:24 Sequence: 133

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001337378	-0.00005975434	-0.00005532885	-0.00005841480	-0.00006551939

Sample ID: CCVLL Units: mg/kg
Analyzed: 03/19/25 17:27 Sequence: 134 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.005280036	0.0001711067	0.0001705541	0.0001697324	0.0001730335

Sample ID: L1835568-05 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:32 Sequence: 135

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002999719	0.00006881253	0.00007391875	0.00006602578	0.00006649306

Sample ID: L1835568-06 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:35 Sequence: 136

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002676161	0.00005429782	0.00005777365	0.00005243787	0.00005268194

Sample ID: L1835568-07 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:38 Sequence: 137

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002081643	0.00002762797	0.00002932375	0.00002676914	0.00002679102

Sample ID: L1835568-08 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:40 Sequence: 138

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.07003315	0.003075907	0.003121894	0.003066491	0.003039338

Sample ID: L1835568-09 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:43 Sequence: 139

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002118173	0.00002926669	0.00003159501	0.00002582110	0.00003038396

Sample ID: L1835978-01 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:46 Sequence: 140

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001456850	-0.0000004000095	0.000001329999	-0.0000008897920	-0.000001640235

Sample ID: L1835978-02 DF: 1x Batch: WG2470127 Units: mg/kg
Analyzed: 03/19/25 17:49 Sequence: 141

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001055479	-0.00001840536	-0.00001777243	-0.00001880961	-0.00001863405

Sample ID: CCV Units: mg/kg
Analyzed: 03/19/25 17:59 Sequence: 145 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.1092138	0.004833537	0.004935544	0.004768684	0.004796383

Sample ID: CCB Units: mg/kg
Analyzed: 03/19/25 18:02 Sequence: 146

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002537477	-0.00005437074	-0.00004888499	-0.00005514707	-0.00005908017

7471A SS HG Metals Prep Benchsheet

Batch: WG2470127

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835285	WG2469408	BJM688	PREPREPBAL4	15-MAR-25
L1835285	WG2469413	BJM688	PREPREPBAL1	15-MAR-25
L1835378	WG2469548	BJM688	PREPREPBAL1	14-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25
L1835978	WG2469859	KMT967	PREPREPBAL4	15-MAR-25

Analyst: NDL4057 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5017-IM **Hotblock ID:** HG2 **2min Cook Temp:** 96
15min KMNO4 HoldTime: 03/18/25 12:43:24 **Hotblock Time On:** 03/18/25 12:57:24 **Uncorrected Temp On:** 96 **Corrected Temp On:** 96
Hotblock Time Off: 03/18/25 13:27:24 **Uncorrected Temp Off:** 98 **Corrected Temp Off:** 98 **Thermometer Correction Factor:** 0.00 **Digestion Chips Lot #:** 25B02756
Prep Date: 03/17/25 17:19-17:20 **Prep End Date/Time:** 03/18/25 14:30 **Calibration and Instrument Stds:** 25C18674 **Method:** 7471A **SOP:** ENV-SOP-MTJL-0213
Thermometer ID#: 1042606 **Pipette Tip Lot#:** 24440172 **Cal and Stds Workgroup:** WG2470133 **Thermometer Location:** D4 **Pipette ID:** VU23217 **Sieve ID:** NA
Sieve Size: NA **Repeat Pipette ID:** 24B38914 **Repeat Pipette Tip Lot#:** N215100J

LCS/MS Spike: 25C14191 Amt. Used: 150 uL Exp. Date:03/21/25 **Aqua Regia:** 25C18675 Amt. Used: 2.50 mL Exp. Date:03/18/25
KMNO4: 25C16400 Amt. Used: 7.50 mL Exp. Date:03/23/25 **H8N2O6S:** 25C12815 Amt. Used: 3 mL Exp. Date:03/19/25 **SnCl:** 25C18676 mL Exp. Date:03/18/25
HCl: 25C18677 mL Exp. Date:03/18/25

Sample ID	Matrix	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Box ID	Review Analyst	Review Date
BLANK		0.30	50	RESIN PELLETS		NDL4057	03/18/25 14:30:52
LCS		0.30	50	RESIN PELLETS		NDL4057	03/18/25 14:30:52
MS(L1835378-09)		0.31	50	BROWN SOIL	Fri-7/PP1 0314	NDL4057	03/18/25 14:30:52
MSD(L1835378-09)		0.29	50	BROWN SOIL	Fri-7/PP1 0314	NDL4057	03/18/25 14:30:52
1. L1835285-16	SS	0.30	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
2. L1835285-18	SS	0.31	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
3. L1835285-19	SS	0.33	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
4. L1835285-20	SS	0.27	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:52
5. L1835285-21	SS	0.29	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:52
6. L1835285-22	SS	0.32	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:52
7. L1835285-23	SS	0.31	50	BROWN SOIL	3/15 PP1 SAT 5	NDL4057	03/18/25 14:30:52
8. L1835378-09	SS	0.30	50	BROWN SOIL	Fri-7/PP1 0314	NDL4057	03/18/25 14:30:52
9. L1835560-08	SS	0.31	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
10. L1835568-01	SS	0.34	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
11. L1835568-02	SS	0.33	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
12. L1835568-03	SS	0.30	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
13. L1835568-04	SS	0.34	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
14. L1835568-05	SS	0.34	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
15. L1835568-06	SS	0.30	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
16. L1835568-07	SS	0.35	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
17. L1835568-08	SS	0.32	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
18. L1835568-09	SS	0.28	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
19. L1835978-01	SS	0.29	50	BROWN SOIL		NDL4057	03/18/25 14:30:52
20. L1835978-02	SS	0.33	50	BROWN SOIL		NDL4057	03/18/25 14:30:52

Comments:

Reviewed By:NDL4057 on 03/18/25 14:30:52

7471A SS HG Metals Prep Benchsheet

Batch: WG2471947

Analyst: NDL4057 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5017-IM **Hotblock ID:** HG2 **2min Cook Temp:** 94
15min KMNO4 HoldTime: 03/19/25 13:15:11 **Hotblock Time On:** 03/19/25 13:30:13 **Uncorrected Temp On:** 94 **Corrected Temp On:** 94
Hotblock Time Off: 03/19/25 14:00:15 **Uncorrected Temp Off:** 94 **Corrected Temp Off:** 94 **Thermometer Correction Factor:** 0.00 **Digestion Chips Lot #:** 25B02756
Prep Date: 03/19/25 12:41 **Prep End Date/Time:** 03/19/25 15:23 **Calibration and Instrument Stds:** 25C19831 **Method:** 7471A **SOP:** ENV-SOP-MTJL-0213
Thermometer ID#: 1042606 **Pipette Tip Lot#:** 24440174 **Cal and Stds Workgroup:** NA **Thermometer Location:** D5 **Pipette ID:** VU23217 **Sieve ID:** NA
Sieve Size: NA **Repeat Pipette ID:** 24B38914 **Repeat Pipette Tip Lot#:** N215100J

LCS/MS Spike: 25C14191 Amt. Used: 150 uL Exp. Date:03/21/25 **Aqua Regia:** 25C19832 Amt. Used: 2.50 mL Exp. Date:03/19/25
KMNO4: 25C17534 Amt. Used: 7.50 mL Exp. Date:03/24/25 **H8N2O6S:** 25C18736 Amt. Used: 3 mL Exp. Date:03/25/25 **SnCl:** 25C19833 mL Exp. Date:03/19/25
HCl: 25C19834 mL Exp. Date:03/19/25

Sample ID	Matrix	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Review Analyst	Review Date
BLANK		0.30	50	RESIN PELLETS	NDL4057	03/19/25 15:24:36
LCS		0.30	50	RESIN PELLETS	NDL4057	03/19/25 15:24:36
MS(L1833721-01)		0.30	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
MSD(L1833721-01)		0.32	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
1. L1833721-01	SS	0.29	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
2. L1833721-02	SS	0.30	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
3. L1833721-03	SS	0.32	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
4. L1833721-04	SS	0.30	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
5. L1833721-05	SS	0.27	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
6. L1833721-06	SS	0.30	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
7. L1833721-07	SS	0.31	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
8. L1833721-08	SS	0.26	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
9. L1833721-09	SS	0.32	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
10. L1833721-10	SS	0.32	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
11. L1833721-11	SS	0.26	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
12. L1835007-04	SS	0.30	50	BLACK OIL	NDL4057	03/19/25 15:24:36
13. L1835593-05	SS	0.30	50	BROWN OIL	NDL4057	03/19/25 15:24:36
14. L1836857-01	SS	0.35	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
15. L1836857-02	SS	0.34	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
16. L1836857-03	SS	0.31	50	BROWN SOIL	NDL4057	03/19/25 15:24:36
17. L1837405-01	SS	0.26	50	LIGHT BROWN SOIL	NDL4057	03/19/25 15:24:36
CALBLK			50		NDL4057	03/19/25 15:24:36
STD1			50		NDL4057	03/19/25 15:24:36
STD2			50		NDL4057	03/19/25 15:24:36
STD3			50		NDL4057	03/19/25 15:24:36
STD4			50		NDL4057	03/19/25 15:24:36
STD5			50		NDL4057	03/19/25 15:24:36
STD6			50		NDL4057	03/19/25 15:24:36
ICV			50		NDL4057	03/19/25 15:24:36
ICB			50		NDL4057	03/19/25 15:24:36
CCV			50		NDL4057	03/19/25 15:24:36
CCB			50		NDL4057	03/19/25 15:24:36
ICVLL			50		NDL4057	03/19/25 15:24:36

Comments:

Reviewed By:NDL4057 on 03/19/25 15:24:36

9056A Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-I-SO

Lab Sample ID:	L1835568-01	**SDG:**	L1835568
Client Sample ID:	CLINTON-SCHOOL-DITCH-I-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	63.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 01:41
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.08 g
Total Solids (%):	67.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	48.0	J	12.3	74.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
18-901-I-SO

Lab Sample ID:	L1835568-02	**SDG:**	L1835568
Client Sample ID:	18-901-I-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	64.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 01:57
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.03 g
Total Solids (%):	68.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		12.0	72.5

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-03	**SDG:**	L1835568
Client Sample ID:	K-18-I-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	65.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 02:13
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.21 g
Total Solids (%):	65.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	24.4	J	12.6	76.3

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-04	**SDG:**	L1835568
Client Sample ID:	P-230-I-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	66.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 02:29
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.01 g
Total Solids (%):	65.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	12.9	J	12.6	76.3

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-05	**SDG:**	L1835568
Client Sample ID:	P-350-I-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	67.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 02:45
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.17 g
Total Solids (%):	68.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	12.1	J	12.1	73.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-06	**SDG:**	L1835568
Client Sample ID:	NHR-I-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	68.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 03:01
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.17 g
Total Solids (%):	83.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	151		9.92	60.2

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DUP-SO-031125

Lab Sample ID:	L1835568-07	**SDG:**	L1835568
Client Sample ID:	DUP-SO-031125	**Collected Date/Time:**	03/11/25 17:00
Lab File ID:	71.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 03:48
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.07 g
Total Solids (%):	69.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		11.8	71.6

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835568-08	**SDG:**	L1835568
Client Sample ID:	FLYASH-I-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	72.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 04:04
Dilution Factor:	100	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.05 g
Total Solids (%):	58.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	U	J6	1400	8490

Sample Narrative:

Dilution due to matrix impact on instrumentation at lower dilution

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SO

Lab Sample ID:	L1835568-09	**SDG:**	L1835568
Client Sample ID:	MONTROSE-LAKE-I-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	76.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 05:08
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5.11 g
Total Solids (%):	71.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	690		11.6	70.2

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187570-1	**SDG:**	L1835568
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	56.0000.txt	**Received Date/Time:**	_____
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/17/25 23:50
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187570-3	**SDG:**	L1835568
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	60.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 00:54
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	469		10.2	62.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187570-4	**SDG:**	L1835568
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	73.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 04:20
Dilution Factor:	100	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	58.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U		1400	8490

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187570-2	**SDG:**	L1835568
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	57.0000.txt	**Received Date/Time:**	_____
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 00:06
Dilution Factor:	1	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	186		8.24	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187570-5	**SDG:**	L1835568
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	74.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 04:36
Dilution Factor:	100	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	58.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Sulfate	14808-79-8	U	J6	1400	8490

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187570-6	**SDG:**	L1835568
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	75.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-10	**Preparation Date/Time:**	03/17/25 19:35
Analytical Batch:	WG2470003	**Analysis Date/Time:**	03/18/25 04:52
Dilution Factor:	100	**Prep Method:**	9056
Analytical Method:	9056A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	5 g
Total Solids (%):	58.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Sulfate	14808-79-8	U	J6	1400	8490

CALIBRATION VERIFICATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031025
Concentration Units:	mg/l		

SSCV

Sample ID: IC-100310252108

Analyte	True	Found	%R	%RSD
BROMIDE	40	39.532	98.80	
CHLORATE	2.50	2.2999	92	
CHLORIDE	40	40.044	100	
FLUORIDE	8	8.1676	102	
NITRATE	8	8.2014	103	
NITRITE	8	8.2604	103	
SULFATE	40	40.7608	102	

SSCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725
Concentration Units:	mg/l		

		CCV				CCV				CCV			
Sample ID:		IC-100317252319				IC-100318250317				IC-100318250643			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
SULFATE	50	47.9979	96		50	47.9429	95.90		50	47.9187	95.80	

CCV Limits: 90 - 110

SDG:	L1835568	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031025

	Sample ID:	**ICB Result**	**ICB Qual**
	File ID:	11.0000.txt	
Analyte		mg/l	
BROMIDE		0.0000	U
CHLORATE		0.0000	U
CHLORIDE		0.1851	U
FLUORIDE		0.03480	U
NITRATE		0.0000	U
NITRITE		0.0000	U
SULFATE		0.2219	U

SDG:	L1835568	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Sample ID:	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	55.0000.txt		56.0000.txt		70.0000.txt		83.0000.txt	
Analyte	mg/l		mg/kg		mg/l		mg/l	
SULFATE	0.0000	U	U		0.2092	U	0.0000	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835568-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4187570-5
R4187570-6

MS Sample / File ID:	R4187570-5 / 74.0000.txt	**SDG:**	L1835568
MSD Sample / File ID:	R4187570-6 / 75.0000.txt	**Analytical Batch:**	WG2470003
OS Sample / File ID:	L1835568-08 / 72.0000.txt	**Matrix:**	Solid
Instrument ID:	IC-10		
Analytical Method:	9056A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Sulfate	200	U	U	U	0.000*	0.000*	100	80.0 - 120	0.000	15

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187570-3 / 60.0000.txt	**SDG:**	L1835568
OS Sample / File ID:	L1835560-06 / 59.0000.txt	**Analytical Batch:**	WG2470003
Instrument ID:	IC-10	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Sulfate	414	469	12.4	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187570-4 / 73.0000.txt	**SDG:**	L1835568
OS Sample / File ID:	L1835568-08 / 72.0000.txt	**Analytical Batch:**	WG2470003
Instrument ID:	IC-10	**Dilution Factor:**	100
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Sulfate	U	U	0.000	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835568-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4187570-2

LCS Sample / File ID:	R4187570-2 / 57.0000.txt	**SDG:**	L1835568
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2470003
Instrument ID:	IC-10	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Sulfate	200	186		93.1		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835568-01,02,03,04,05,06,07,08,09 **Analytical Method:** 9056A

Matrix: Solid **Prep Method:** 9056

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Sulfate	14808-79-8			8.24	50

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	9056A
Instrument ID:	IC-10	**Calibration Start Date:**	_____
Analytical Run:	031025	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	STD 1	3.0000.TXT	03/10/25 19:17		
CAL	STD 2	4.0000.TXT	03/10/25 19:33		
CAL	STD 3	5.0000.TXT	03/10/25 19:49		
CAL	STD 4	6.0000.TXT	03/10/25 20:05		
CAL	STD 5	7.0000.TXT	03/10/25 20:20		
CAL	STD 6	8.0000.TXT	03/10/25 20:36		
CAL	STD 7	9.0000.TXT	03/10/25 20:52		
SSCV	IC-100310252108	10.0000.txt	03/10/25 21:08		
ICB	IC-100310252124	11.0000.txt	03/10/25 21:24		

ANALYSIS LOG

SDG:	L1835568	**Analytical Method:**	9056A
Instrument ID:	IC-10	**Calibration Start Date:**	03/10/25 19:17
Analytical Run:	031725	**Calibration End Date:**	03/10/25 20:52

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
RL	IC-100317250922	15.0000.txt	03/17/25 09:22		
CCV	IC-100317252319	54.0000.txt	03/17/25 23:19		
CCB	IC-100317252335	55.0000.txt	03/17/25 23:35		
BLANK	R4187570-1	56.0000.txt	03/17/25 23:50	1	WG2470003
LCS	R4187570-2	57.0000.txt	03/18/25 00:06	1	WG2470003
L1835499-01	L1835499-01	58.0000.txt	03/18/25 00:22	1	WG2470003
OS	L1835560-06	59.0000.txt	03/18/25 00:38		
L1835560-06	L1835560-06	59.0000.txt	03/18/25 00:38	1	WG2470003
DUP	R4187570-3	60.0000.txt	03/18/25 00:54	1	WG2470003
L1835560-07	L1835560-07	61.0000.txt	03/18/25 01:10	10.3	WG2470003
L1835560-08	L1835560-08	62.0000.txt	03/18/25 01:26	1	WG2470003
CLINTON-SCHOOL-DITCH-I-SO	L1835568-01	63.0000.txt	03/18/25 01:41	1	WG2470003
18-901-I-SO	L1835568-02	64.0000.txt	03/18/25 01:57	1	WG2470003
K-18-I-SO	L1835568-03	65.0000.txt	03/18/25 02:13	1	WG2470003
P-230-I-SO	L1835568-04	66.0000.txt	03/18/25 02:29	1	WG2470003
P-350-I-SO	L1835568-05	67.0000.txt	03/18/25 02:45	1	WG2470003
NHR-I-SO	L1835568-06	68.0000.txt	03/18/25 03:01	1	WG2470003
CCV	IC-100318250317	69.0000.txt	03/18/25 03:17		
CCB	IC-100318250332	70.0000.txt	03/18/25 03:32		
DUP-SO-031125	L1835568-07	71.0000.txt	03/18/25 03:48	1	WG2470003
FLYASH-I-SO	L1835568-08	72.0000.txt	03/18/25 04:04	100	WG2470003
DUP	R4187570-4	73.0000.txt	03/18/25 04:20	100	WG2470003
MS	R4187570-5	74.0000.txt	03/18/25 04:36	100	WG2470003
MSD	R4187570-6	75.0000.txt	03/18/25 04:52	100	WG2470003
MONTROSE-LAKE-I-SO	L1835568-09	76.0000.txt	03/18/25 05:08	1	WG2470003
L1835904-01	L1835904-01	77.0000.txt	03/18/25 05:23	10	WG2470003
L1836309-01	L1836309-01	78.0000.txt	03/18/25 05:39	1	WG2470003
L1836333-01	L1836333-01	79.0000.txt	03/18/25 05:55	1.04	WG2470003
L1836364-01	L1836364-01	80.0000.txt	03/18/25 06:11	1	WG2470003
L1836364-02	L1836364-02	81.0000.txt	03/18/25 06:27	10	WG2470003
CCV	IC-100318250643	82.0000.txt	03/18/25 06:43		
CCB	IC-100318250659	83.0000.txt	03/18/25 06:59		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	0	.2137		1	.9992	99.90
File ID:		3.0000.TXT			4.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	5	4.427	88.50	10	9.0186	90.20
File ID:		5.0000.TXT			6.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	25	24.4085	97.60	50	50.2038	100
File ID:		7.0000.TXT			8.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835568	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%
SULFATE	100	101.9429	102
File ID:		9.0000.TXT	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1835568	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Analytical Method:	9056A	**Analytical Run:**	031725

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
SULFATE	5	1	0.99926			0.089	-0.018	16.831

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

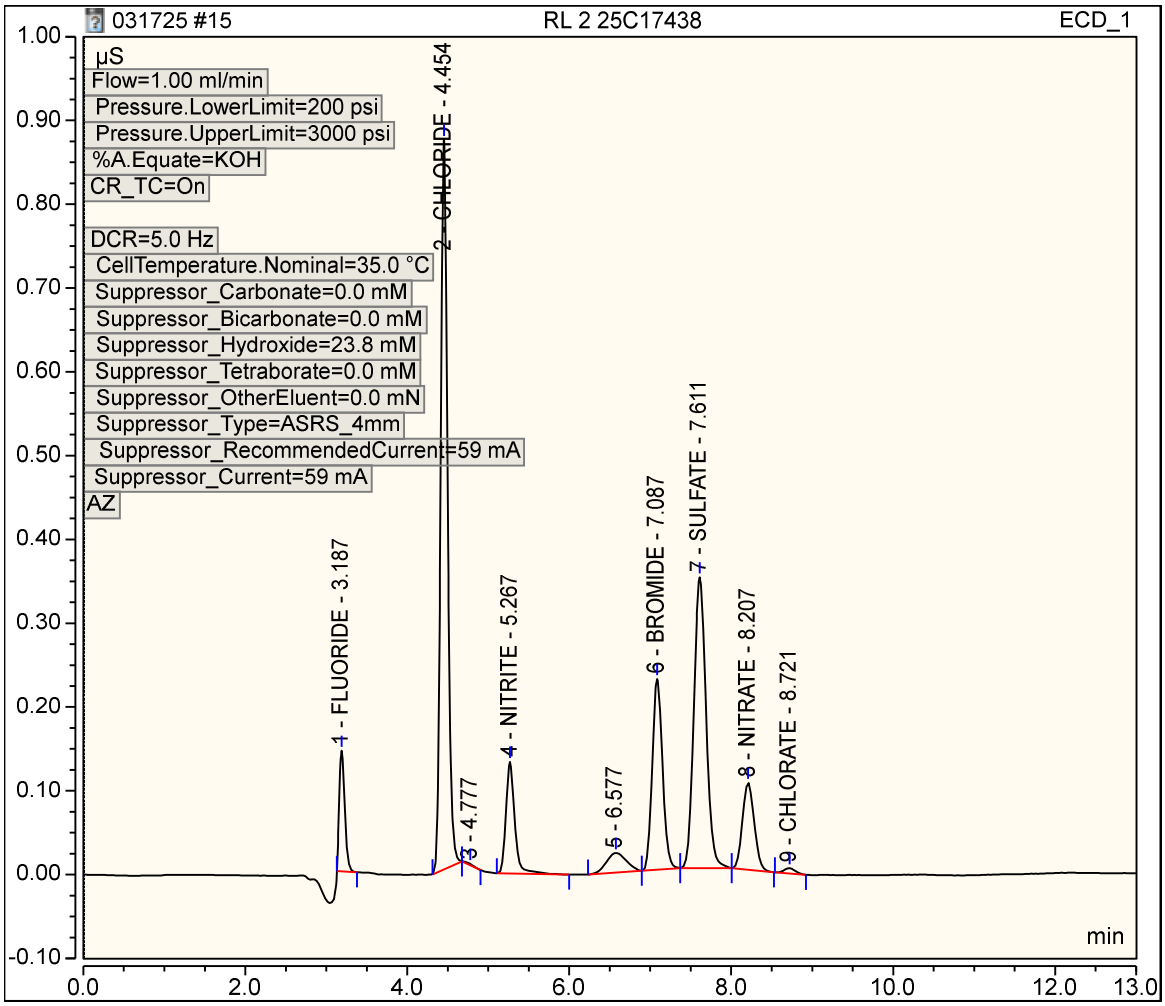
REPORTING LEVEL VERIFICATION
INORGANICS

SDG:	L1835568	**Calibration (begin) date/time:**	03/10/25 19:17
Instrument ID:	IC-10	**Calibration (end) date/time:**	03/10/25 20:52
Lab File ID:	15.0000.txt	**Analysis date/time:**	03/17/25 09:22
Analytical Method:	9056A	**Sample ID:**	RL

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
SULFATE	1	0.8839	88.40	50 - 150

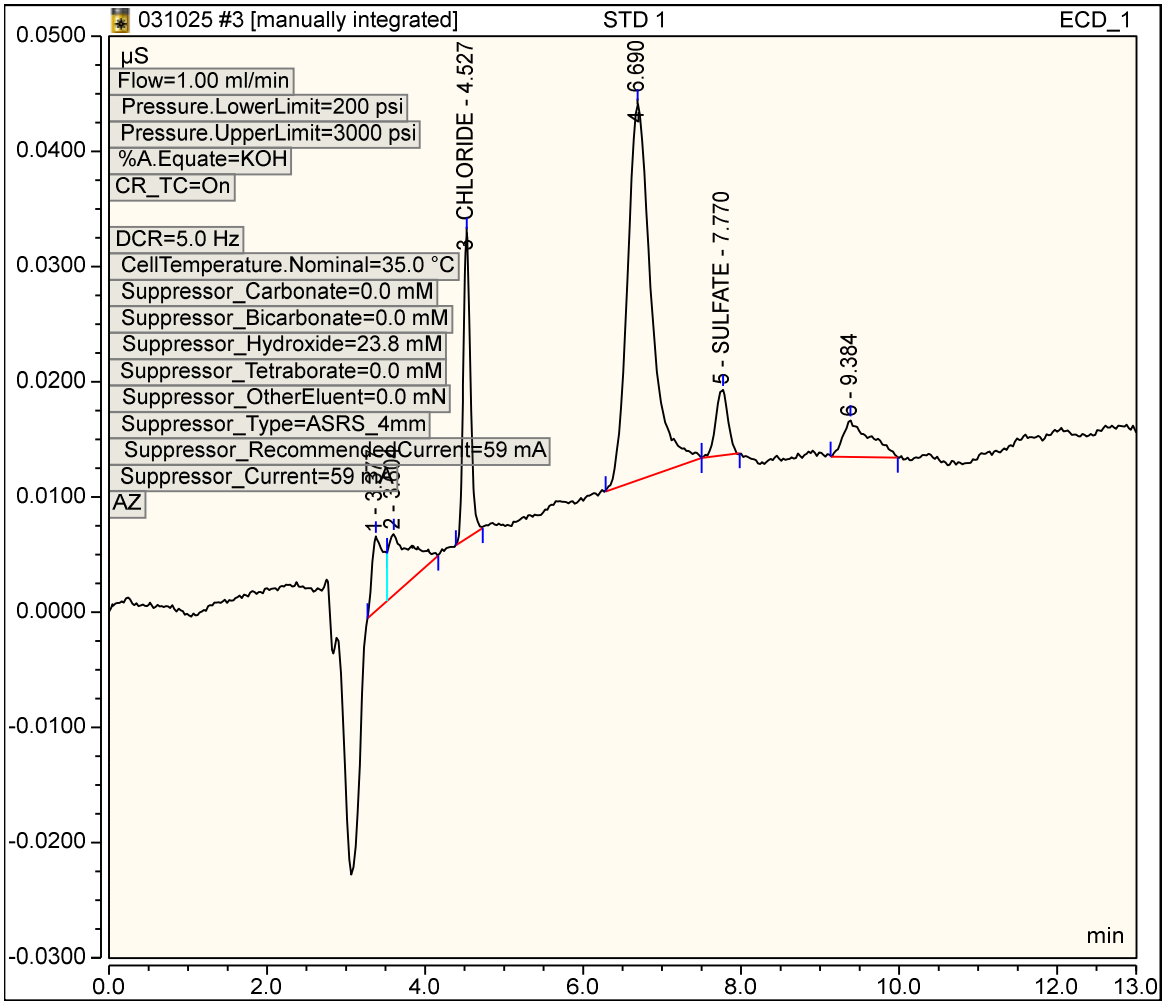
Sample Name:	**RL 2 25C17438**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 09:22**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BMB	0.011	0.144	0.0915
2	4.45	CHLORIDE	BMB	0.086	0.870	0.8568
4	5.27	NITRITE	BMB	0.017	0.133	0.1134
6	7.09	BROMIDE	BMB	0.033	0.228	1.1706
7	7.61	SULFATE	BMB	0.060	0.347	0.8839
8	8.21	NITRATE	BMB	0.018	0.104	0.1255
9	8.72	CHLORATE	BMB	0.001	0.006	0.0620
		TOTAL:		0.23	1.83	3.30



Sample Name:	**STD 1**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**25B27874 BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 19:17**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.53	CHLORIDE	BMB	0.003	0.027	0.1993
5	7.77	SULFATE	bMB*	0.001	0.006	0.2137
		TOTAL:		0.00	0.03	0.41



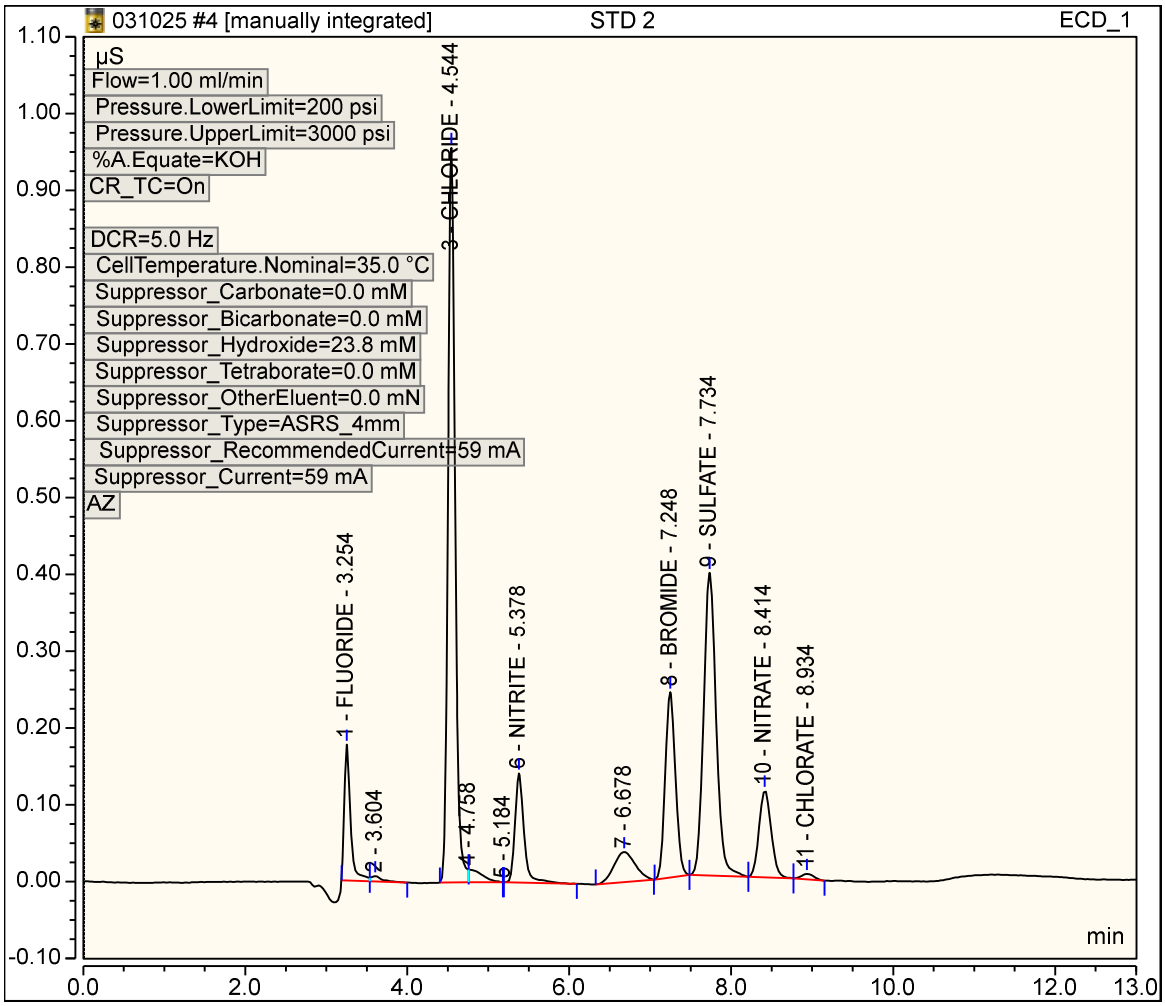
Sample Name:	**STD 1**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**25B27874**
Inj. Date/Time:	**03/10/25 19:17**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #3 - STD 1.

Sample Name:	**STD 2**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 19:33**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.25	FLUORIDE	BM	0.016	0.177	0.1154
3	4.54	CHLORIDE	BM *	0.097	0.957	0.9475
6	5.38	NITRITE	bMB*	0.018	0.142	0.1198
8	7.25	BROMIDE	BMB	0.035	0.241	1.2097
9	7.73	SULFATE	BMB	0.071	0.394	0.9992
10	8.41	NITRATE	BMB	0.020	0.113	0.1330
11	8.93	CHLORATE	BMB	0.001	0.007	0.0680
		TOTAL:		0.26	2.03	3.59



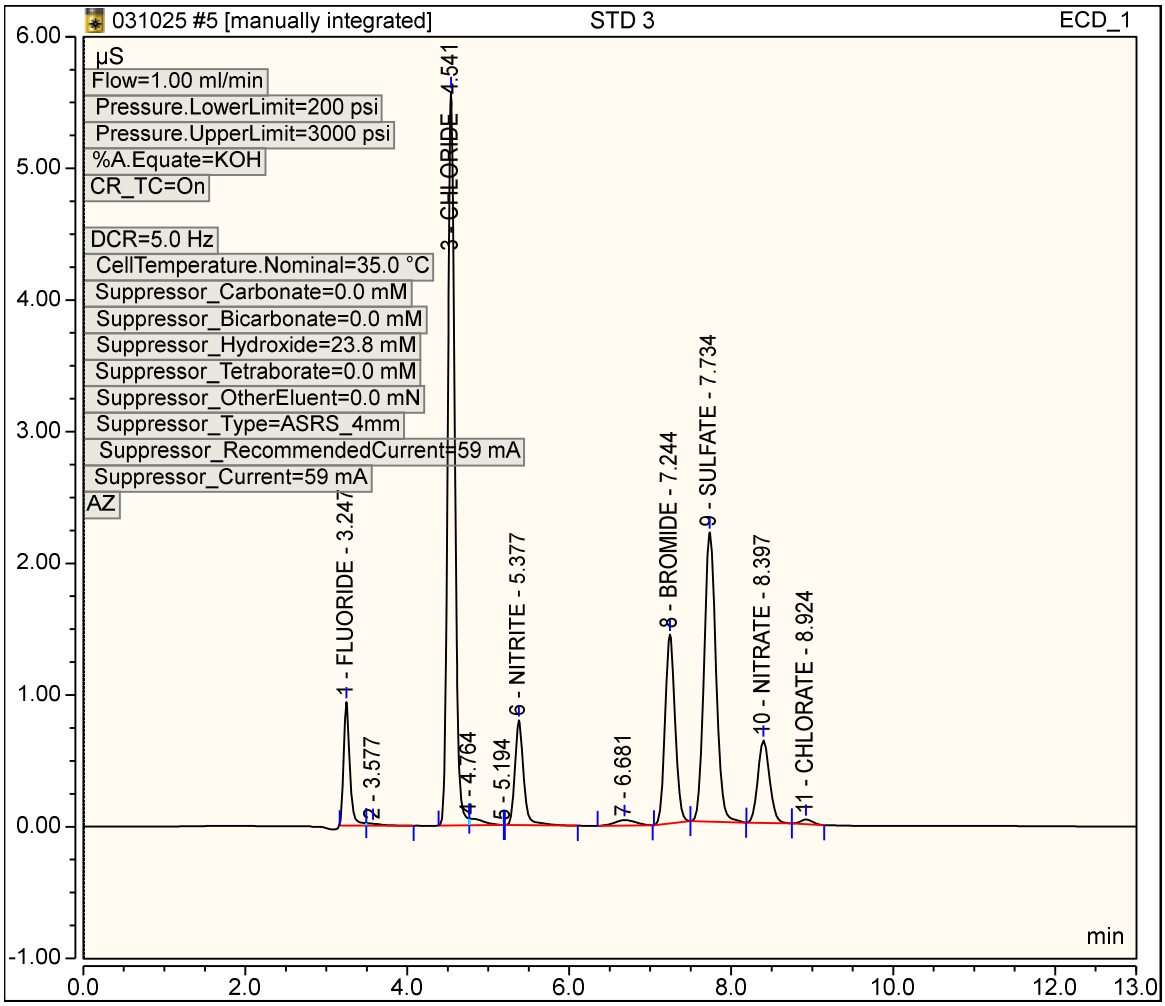
Sample Name:	**STD 2**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 19:33**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #4 - STD 2.

Sample Name:	**STD 3**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 19:49**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.25	FLUORIDE	BM	0.083	0.937	0.4599
3	4.54	CHLORIDE	BM *	0.557	5.571	4.6024
6	5.38	NITRITE	bMB*	0.099	0.796	0.4529
8	7.24	BROMIDE	BMB	0.205	1.433	4.4650
9	7.73	SULFATE	BMB	0.374	2.197	4.4270
10	8.40	NITRATE	BMB	0.105	0.626	0.4344
11	8.92	CHLORATE	BMB	0.006	0.036	0.2269
		TOTAL:		1.43	11.60	15.07



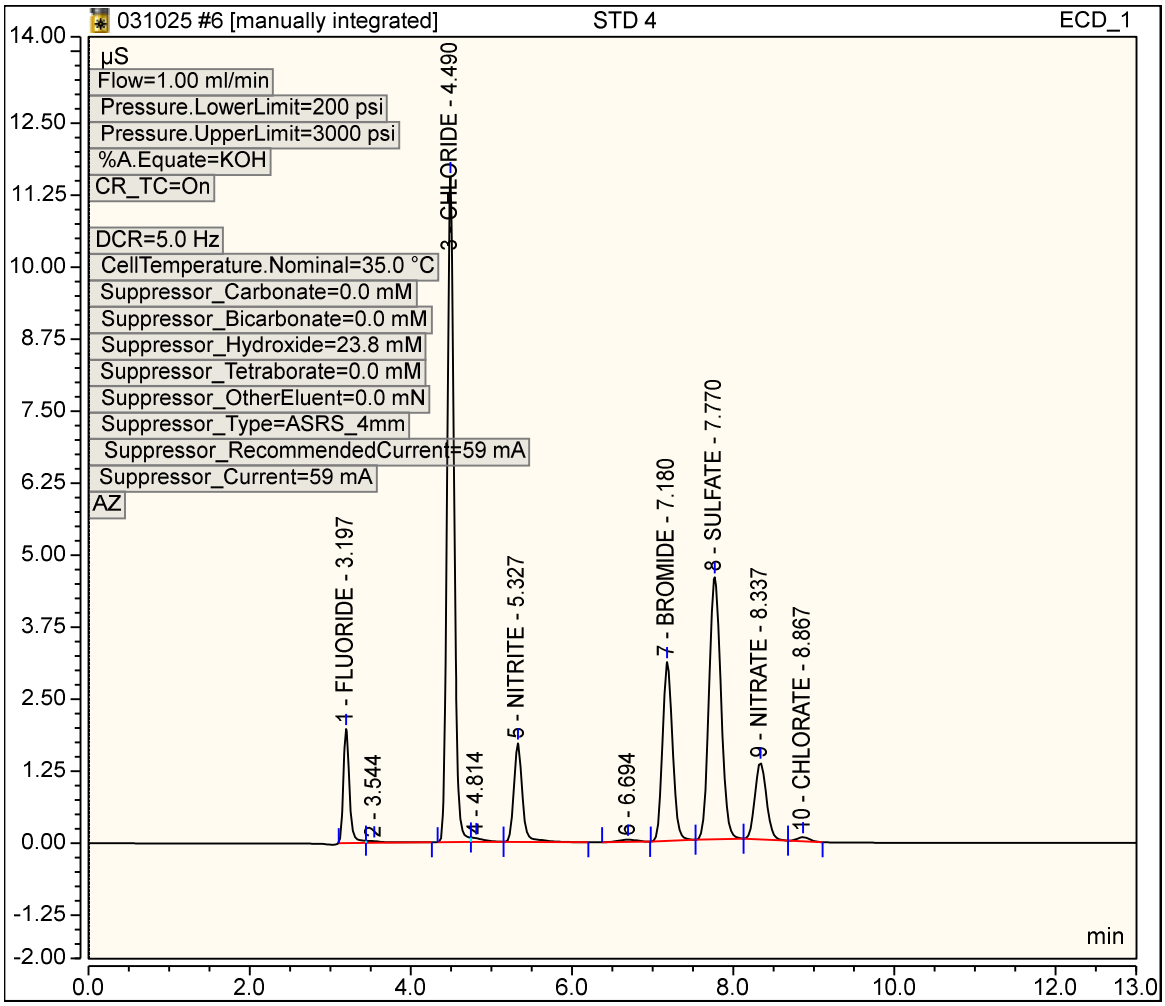
Sample Name:	**STD 3**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 19:49**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #5 - STD 3.

Sample Name:	**STD 4**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 20:05**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.20	FLUORIDE	BM	0.174	1.981	0.9294
3	4.49	CHLORIDE	BM *	1.161	11.547	9.3983
5	5.33	NITRITE	bMB*	0.211	1.709	0.9127
7	7.18	BROMIDE	BMB	0.446	3.107	9.0885
8	7.77	SULFATE	BMB	0.781	4.547	9.0186
9	8.34	NITRATE	BMB	0.221	1.336	0.8421
10	8.87	CHLORATE	BMB	0.012	0.071	0.4239
		TOTAL:		3.01	24.30	30.61



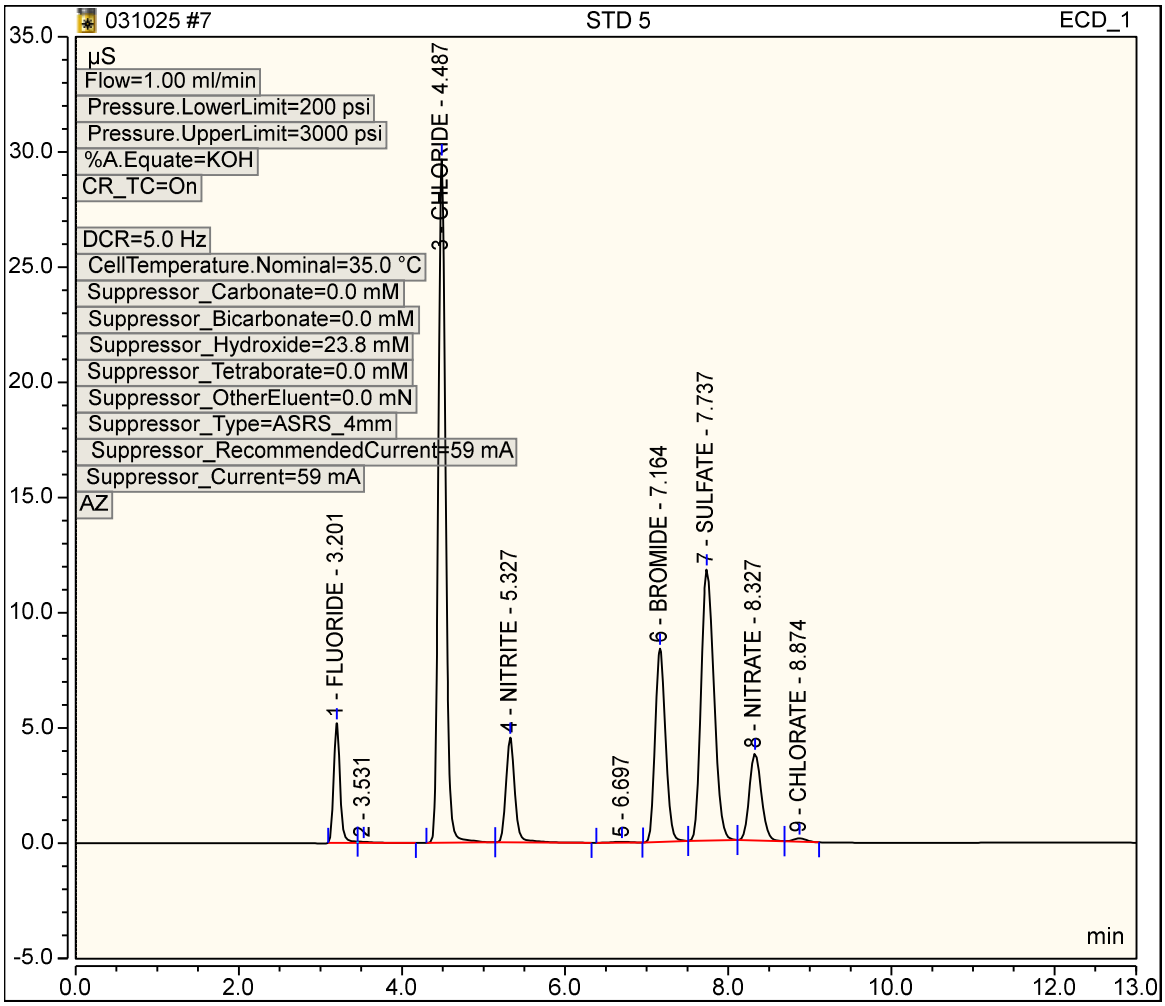
Sample Name:	**STD 4**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 20:05**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #6 - STD 4.

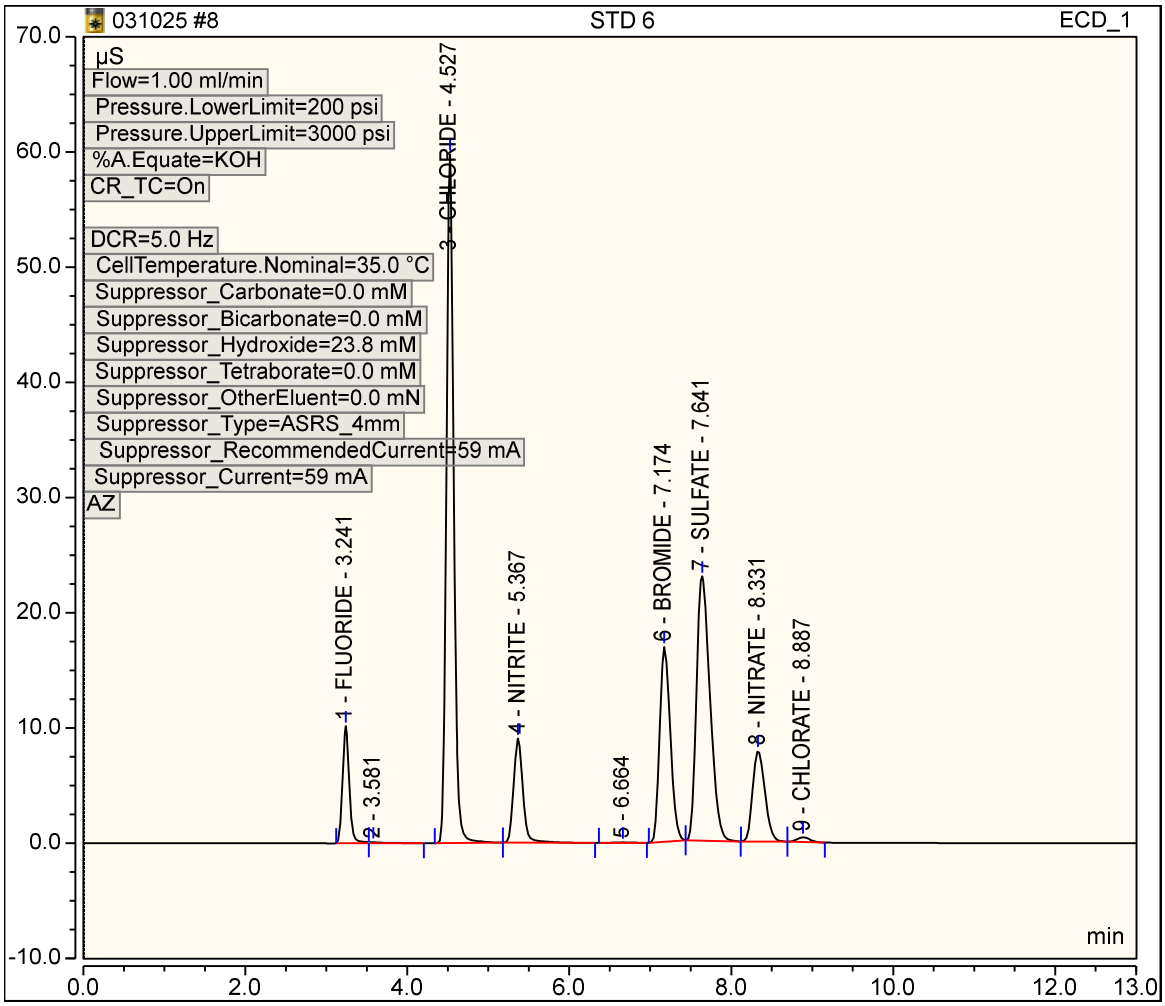
Sample Name:	**STD 5**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 20:20**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.20	FLUORIDE	BM	0.467	5.196	2.4429
3	4.49	CHLORIDE	BMB	3.053	29.665	24.4224
4	5.33	NITRITE	BMB	0.576	4.553	2.4105
6	7.16	BROMIDE	BMB	1.234	8.392	24.1968
7	7.74	SULFATE	BMB	2.144	11.774	24.4085
8	8.33	NITRATE	BMB	0.642	3.770	2.3231
9	8.87	CHLORATE	BMB	0.026	0.148	0.8602
		TOTAL:		8.14	63.50	81.06



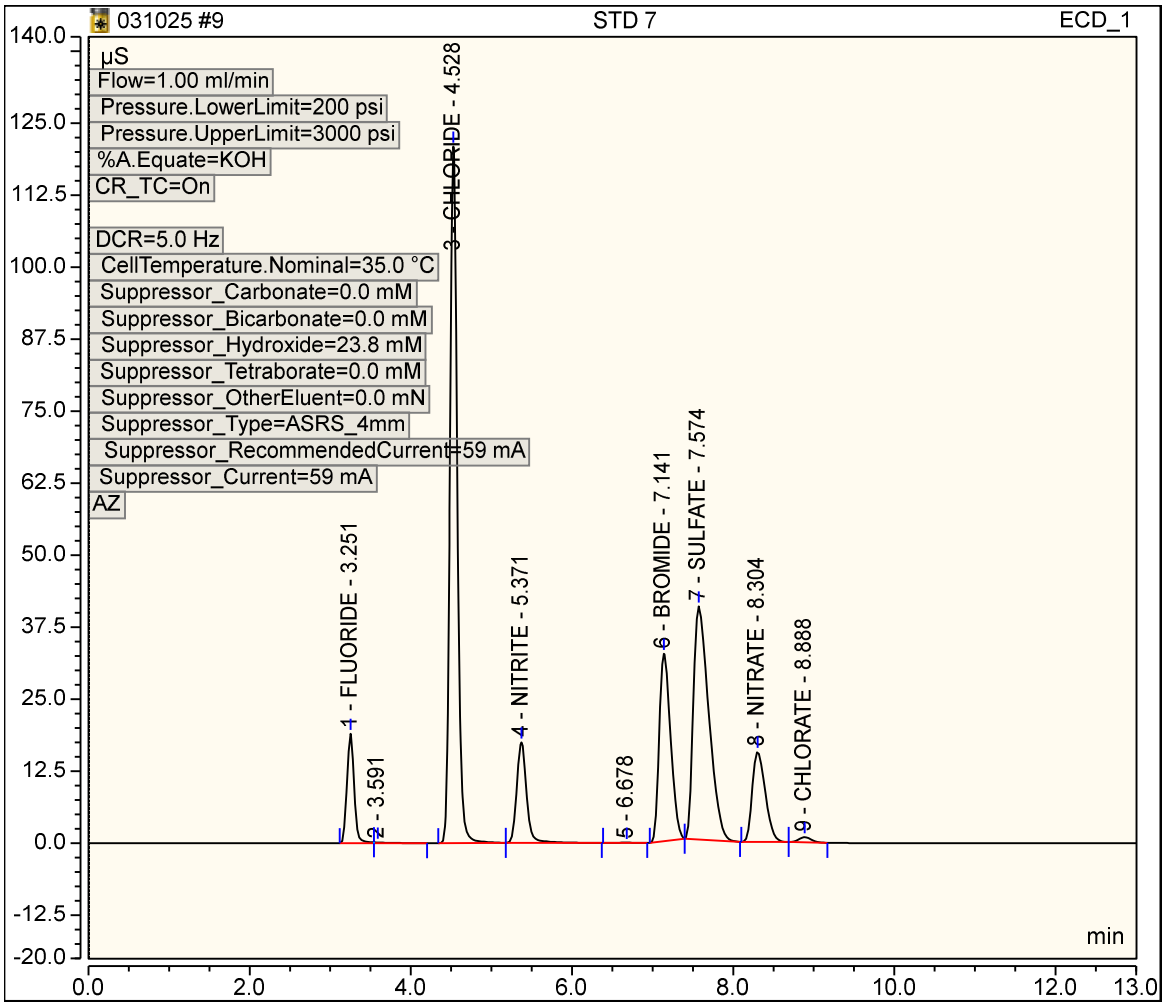
Sample Name:	**STD 6**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 20:36**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.24	FLUORIDE	BM	0.972	10.151	5.0468
3	4.53	CHLORIDE	BMB	6.270	59.777	49.9645
4	5.37	NITRITE	BMB	1.204	9.037	4.9934
6	7.17	BROMIDE	BMB	2.581	16.902	50.0198
7	7.64	SULFATE	BMB	4.428	22.924	50.2038
8	8.33	NITRATE	BMB	1.385	7.900	4.9364
9	8.89	CHLORATE	BMB	0.074	0.414	2.4024
		TOTAL:		16.91	127.11	167.57



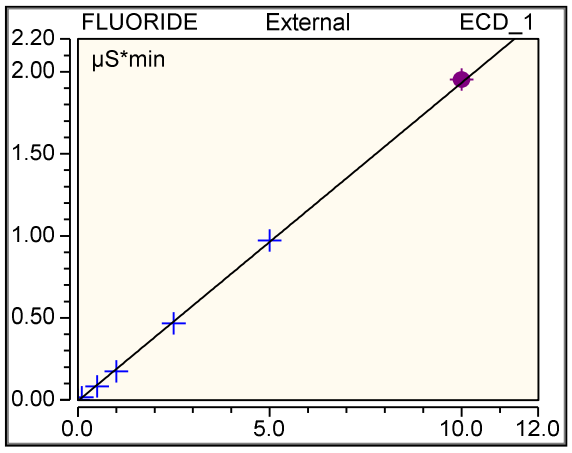
Sample Name:	**STD 7**	*Inj. Vol.:*	**25.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 20:52**	*Run Time:*	**13.00**

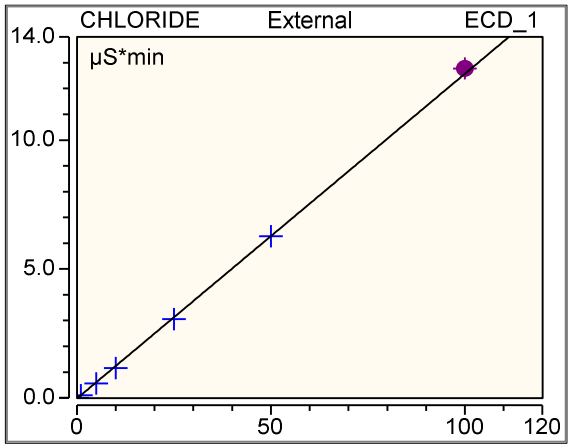
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.25	FLUORIDE	BM	1.953	19.003	10.1056
3	4.53	CHLORIDE	BMB	12.781	120.902	101.6648
4	5.37	NITRITE	BMB	2.474	17.454	10.2108
6	7.14	BROMIDE	BMB	5.293	32.513	102.0202
7	7.57	SULFATE	BMB	9.011	40.464	101.9429
8	8.30	NITRATE	BMB	2.947	15.701	10.4311
9	8.89	CHLORATE	BMB	0.164	0.908	5.3186
		TOTAL:		34.62	246.94	341.69

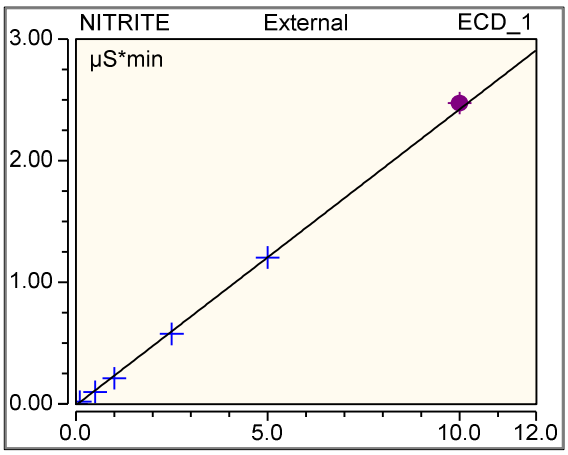


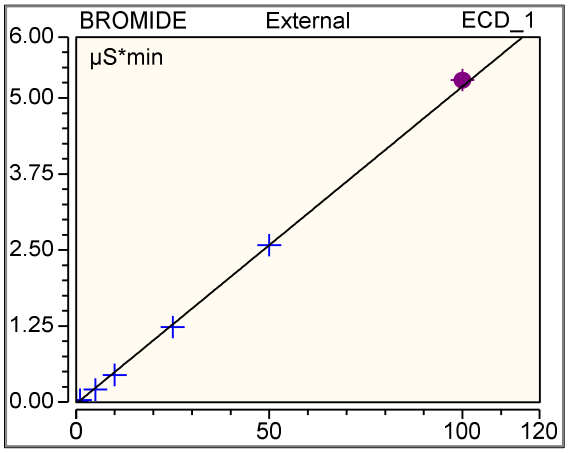
Calibration Batch Report

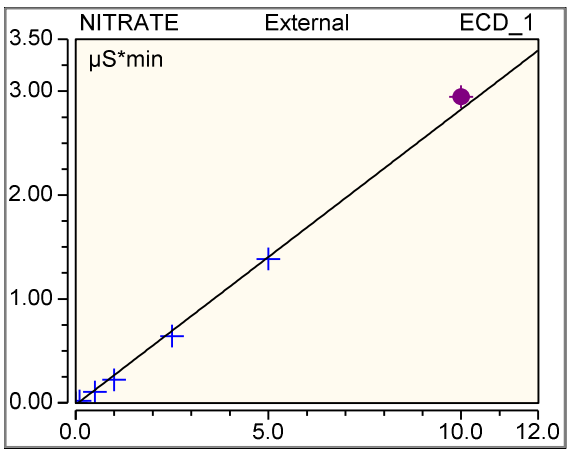
Sequence:	**031025**	Inj. Vol.:	**25.0**
Program:	**IC10CAL012725**	Operator:	**WETLABIC8**
Inj. Date/Time:	**03/10/25 20:52**	Run Time:	**13.00**

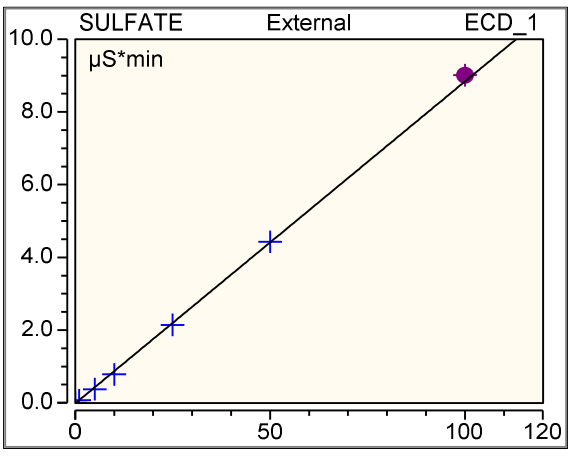




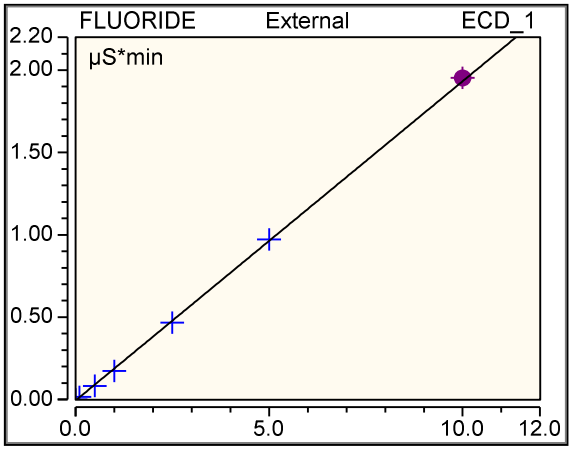








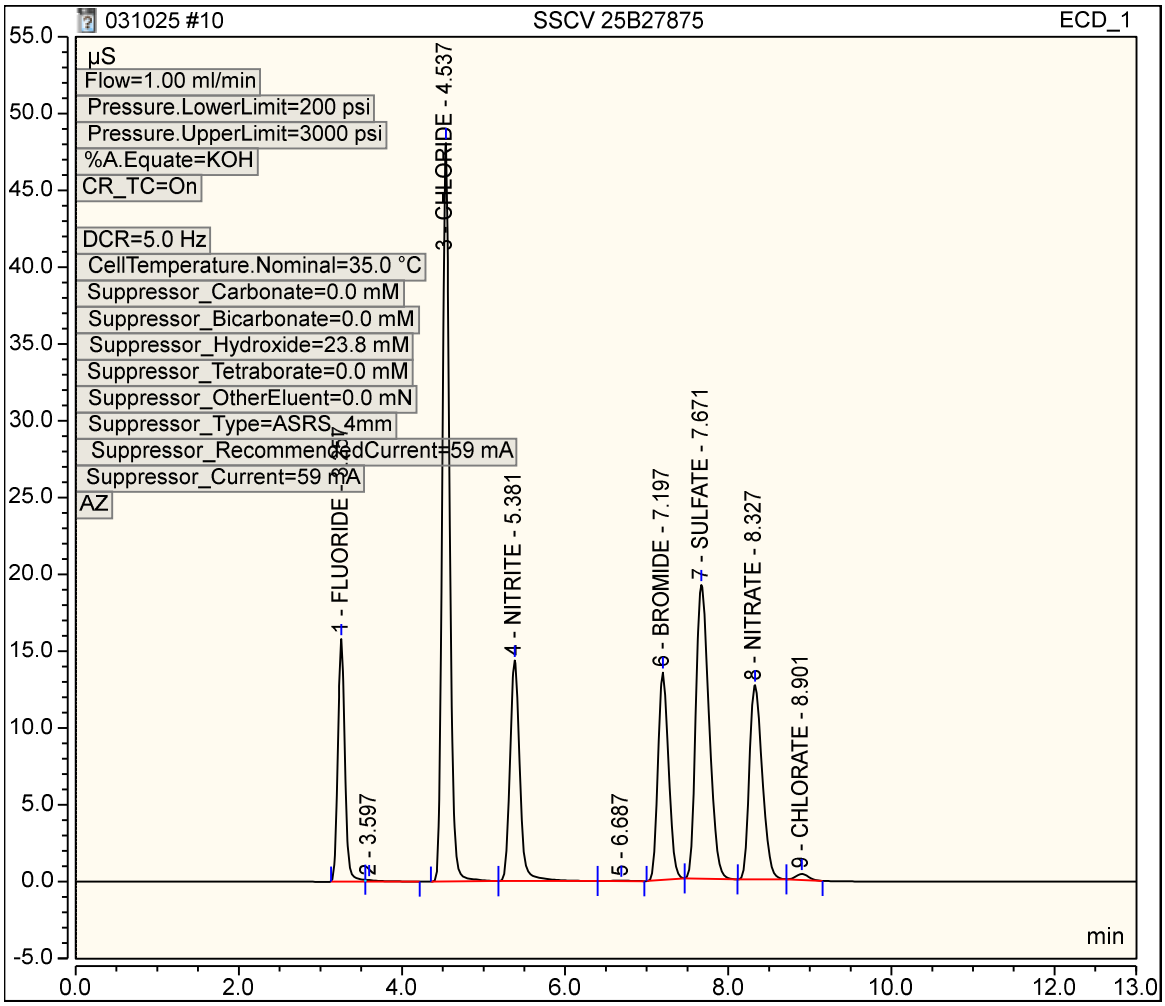
Sequence:	**031025**	*Inj. Vol.:*	**25.0**
Program:	**IC10CAL012725**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/10/25 20:52**	*Run Time:*	**13.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.25	FLUORIDE	, WithOffset,	6	-0.006	0.194	0.000	99.959
3	4.53	CHLORIDE	, WithOffset,	7	-0.022	0.126	0.000	99.957
4	5.37	NITRITE	, WithOffset,	6	-0.011	0.243	0.000	99.928
6	7.14	BROMIDE	, WithOffset,	6	-0.028	0.052	0.000	99.924
7	7.57	SULFATE	, WithOffset,	7	-0.018	0.089	0.000	99.926
8	8.30	NITRATE	, WithOffset,	6	-0.018	0.284	0.000	99.769
9	8.89	CHLORATE	, WithOffset,	6	-0.001	0.031	0.000	99.603
AVERAGE:					-0.0149	0.1456	0.0000	99.8667

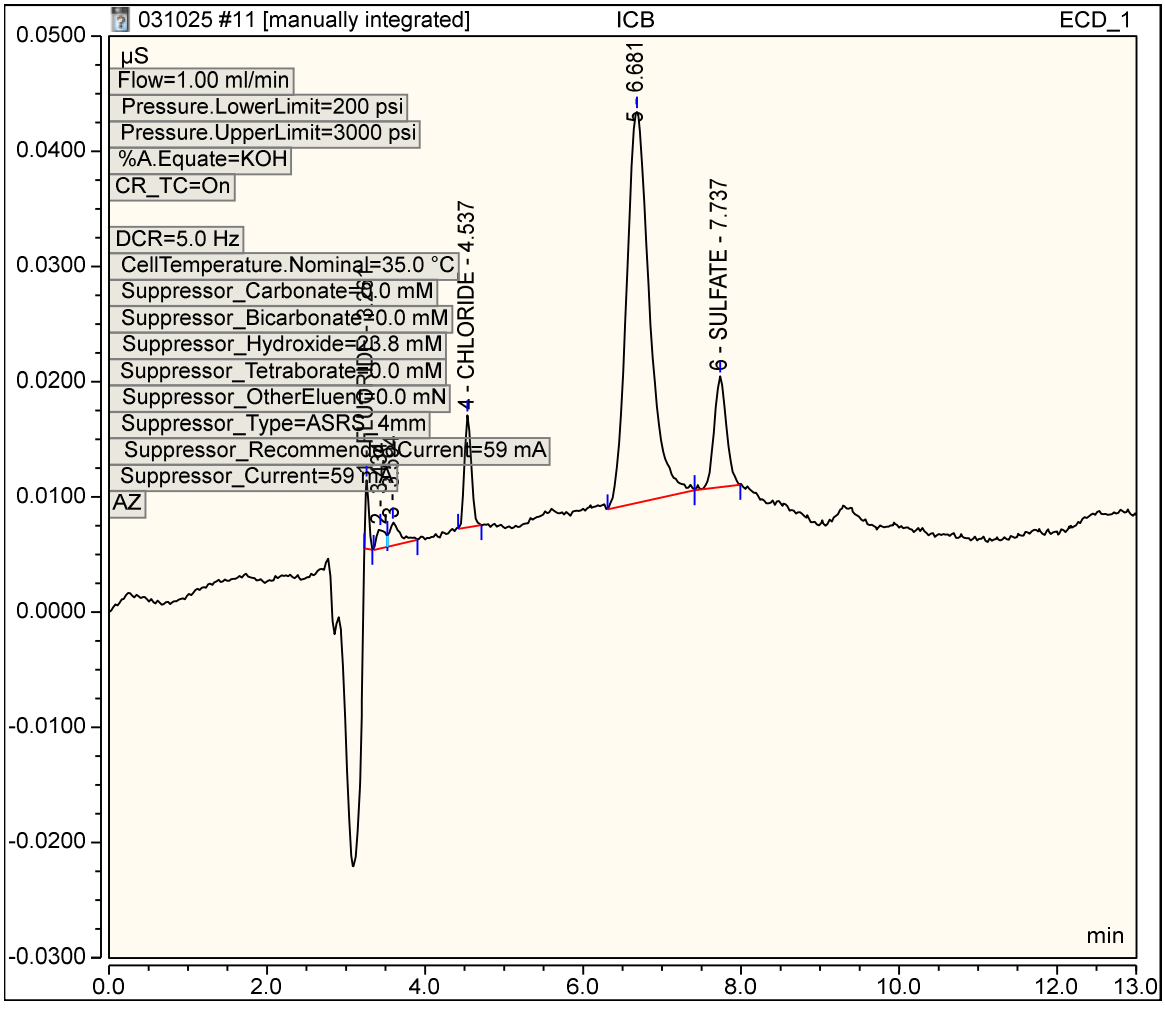
Sample Name:	**SSCV 25B27875**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 21:08**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.26	FLUORIDE	BM	1.577	15.782	8.1676
3	4.54	CHLORIDE	BMB	5.021	48.073	40.0440
4	5.38	NITRITE	BMB	1.999	14.354	8.2604
6	7.20	BROMIDE	BMB	2.034	13.529	39.5320
7	7.67	SULFATE	BMB	3.592	19.131	40.7608
8	8.33	NITRATE	BMB	2.313	12.635	8.2014
9	8.90	CHLORATE	BMB	0.070	0.398	2.2999
		TOTAL:		16.61	123.90	147.27



Sample Name:	**ICB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**BA: AJC4244 03/11/25**
Inj. Date/Time:	**03/10/25 21:24**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.26	FLUORIDE	BMB	0.000	0.006	0.0348
4	4.54	CHLORIDE	BMB	0.001	0.010	0.1851
6	7.74	SULFATE	bMB*	0.002	0.010	0.2219
		TOTAL:		0.00	0.03	0.44



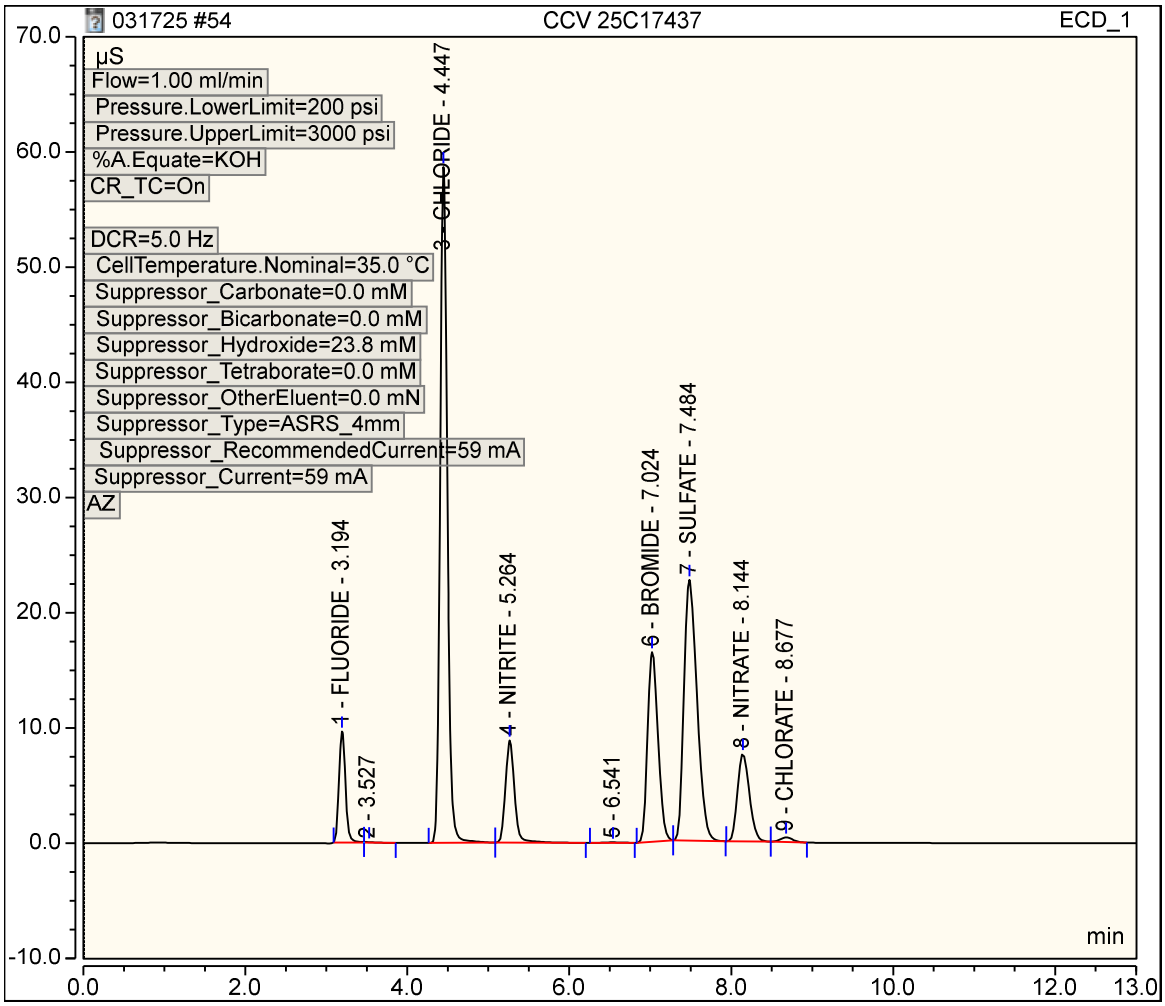
Sample Name:	**ICB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/10/25 21:24**	*Run Time:*	**n.a.**

No.	Time min	Peak Name	Type	Area n.a.	Height n.a.	Amount n.a.
		TOTAL:		0.00	0.00	0.00

Channel is not available for injection #11 - ICB.

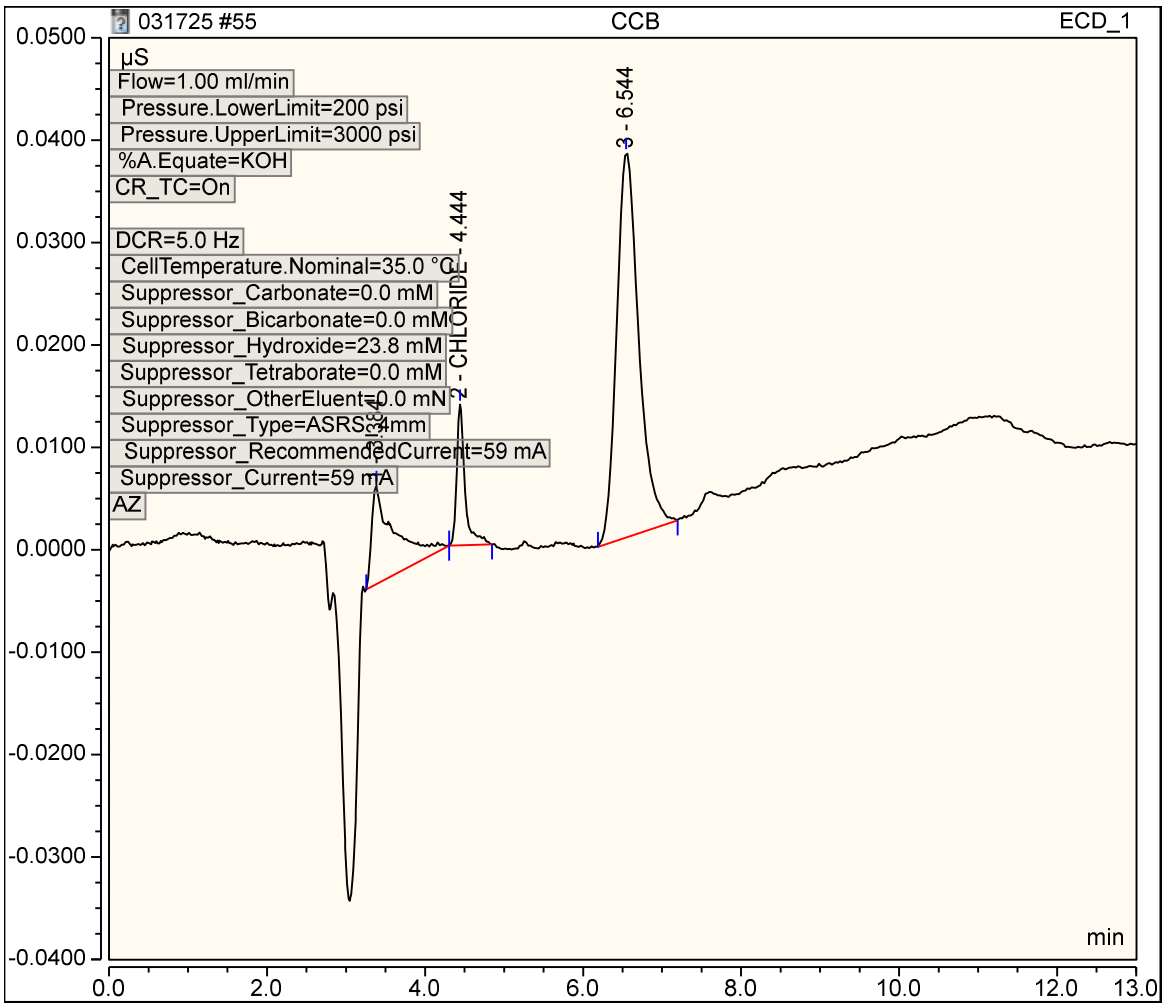
Sample Name:	**CCV 25C17437**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 23:19**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.891	9.636	4.6258
3	4.45	CHLORIDE	BMB	6.068	58.664	48.3604
4	5.26	NITRITE	BMB	1.148	8.875	4.7612
6	7.02	BROMIDE	BMB	2.463	16.461	47.7498
7	7.48	SULFATE	BMB	4.233	22.625	47.9979
8	8.14	NITRATE	BMB	1.298	7.607	4.6306
9	8.68	CHLORATE	BMB	0.071	0.403	2.3064
		TOTAL:		16.17	124.27	160.43



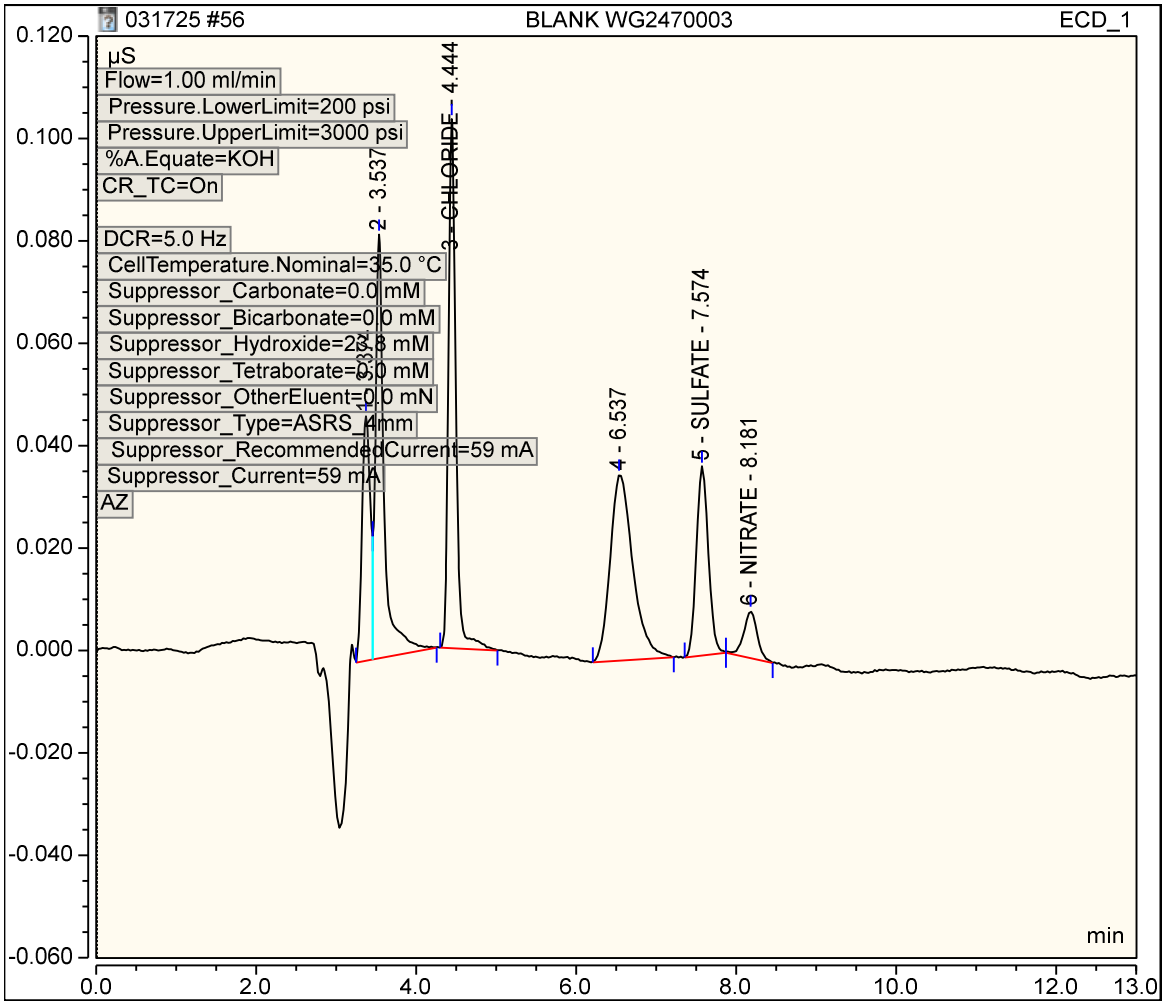
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 23:35**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
2	4.44	CHLORIDE	BMB	0.002	0.014	0.1905
		TOTAL:		0.00	0.01	0.19



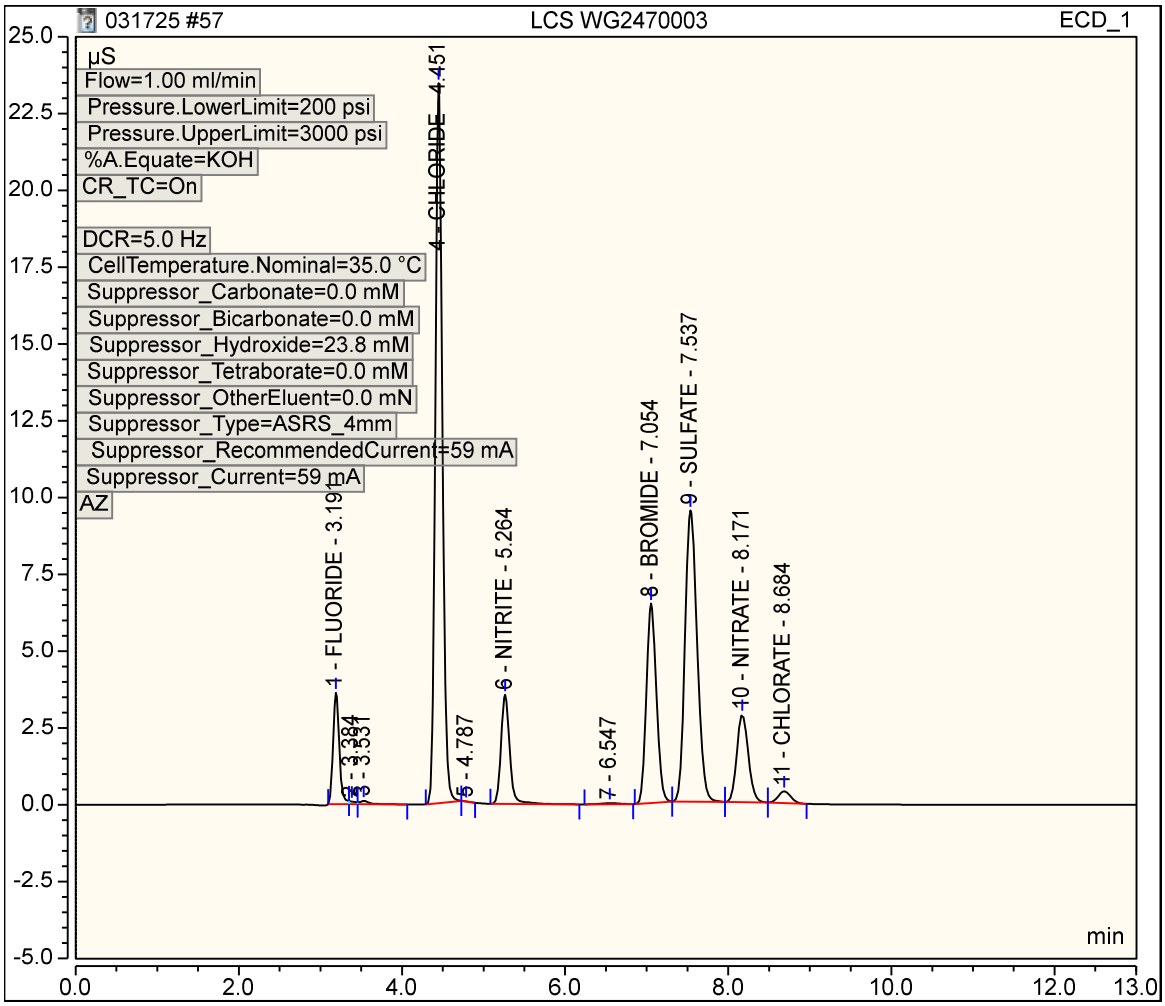
Sample Name:	**BLANK WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/17/25 23:50**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.44	CHLORIDE	BMB	0.011	0.103	0.2657
5	7.57	SULFATE	BMB	0.006	0.037	0.2748
6	8.18	NITRATE	BMB	0.002	0.009	0.0703
		TOTAL:		0.02	0.15	0.61



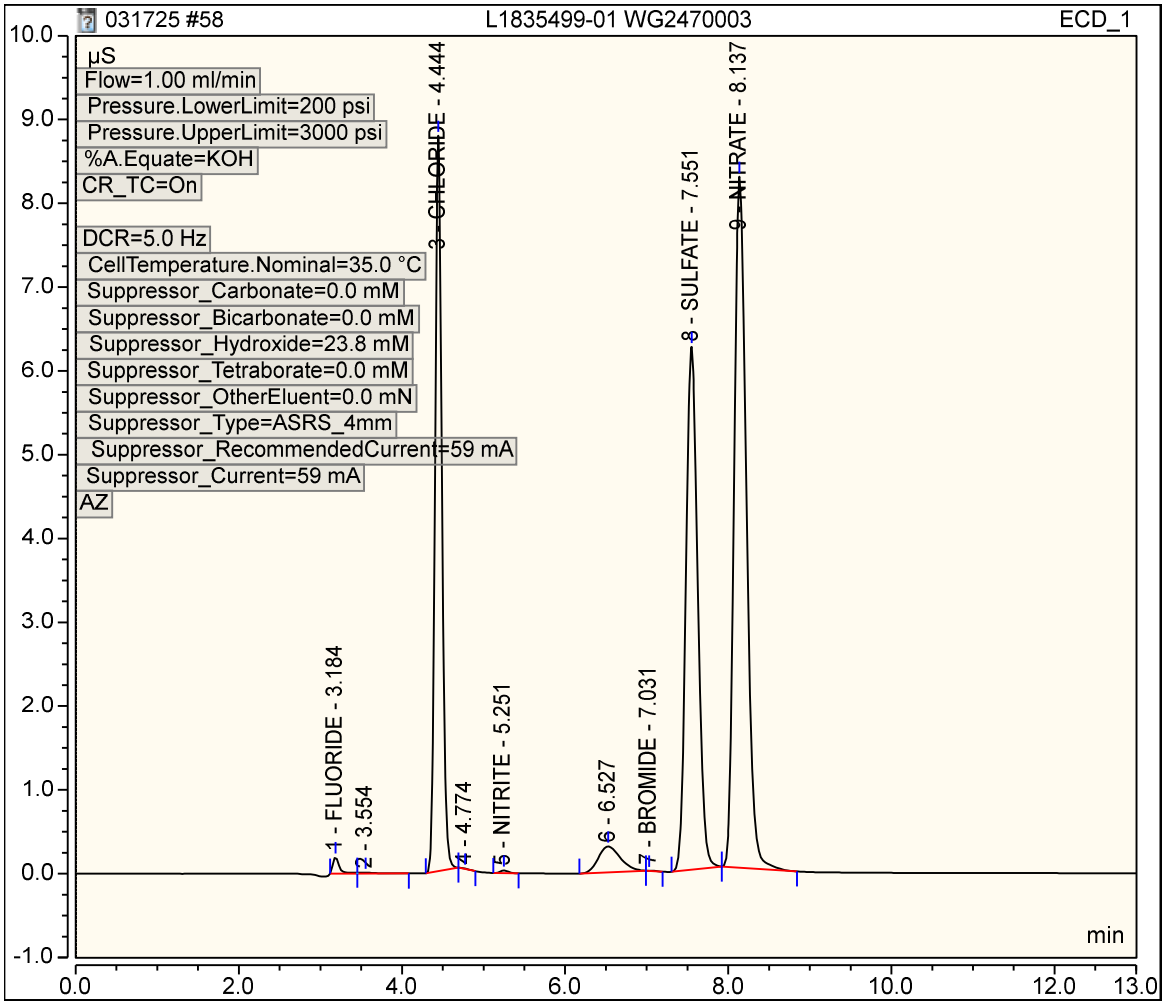
Sample Name:	**LCS WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 00:06**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.314	3.627	1.6546
4	4.45	CHLORIDE	BMB	2.349	23.426	18.8302
6	5.26	NITRITE	BMB	0.438	3.552	1.8429
8	7.05	BROMIDE	BMB	0.925	6.489	18.2733
9	7.54	SULFATE	BMB	1.631	9.475	18.6192
10	8.17	NITRATE	BMB	0.467	2.852	1.7078
11	8.68	CHLORATE	BMB	0.068	0.386	2.2370
		TOTAL:		6.19	49.81	63.17



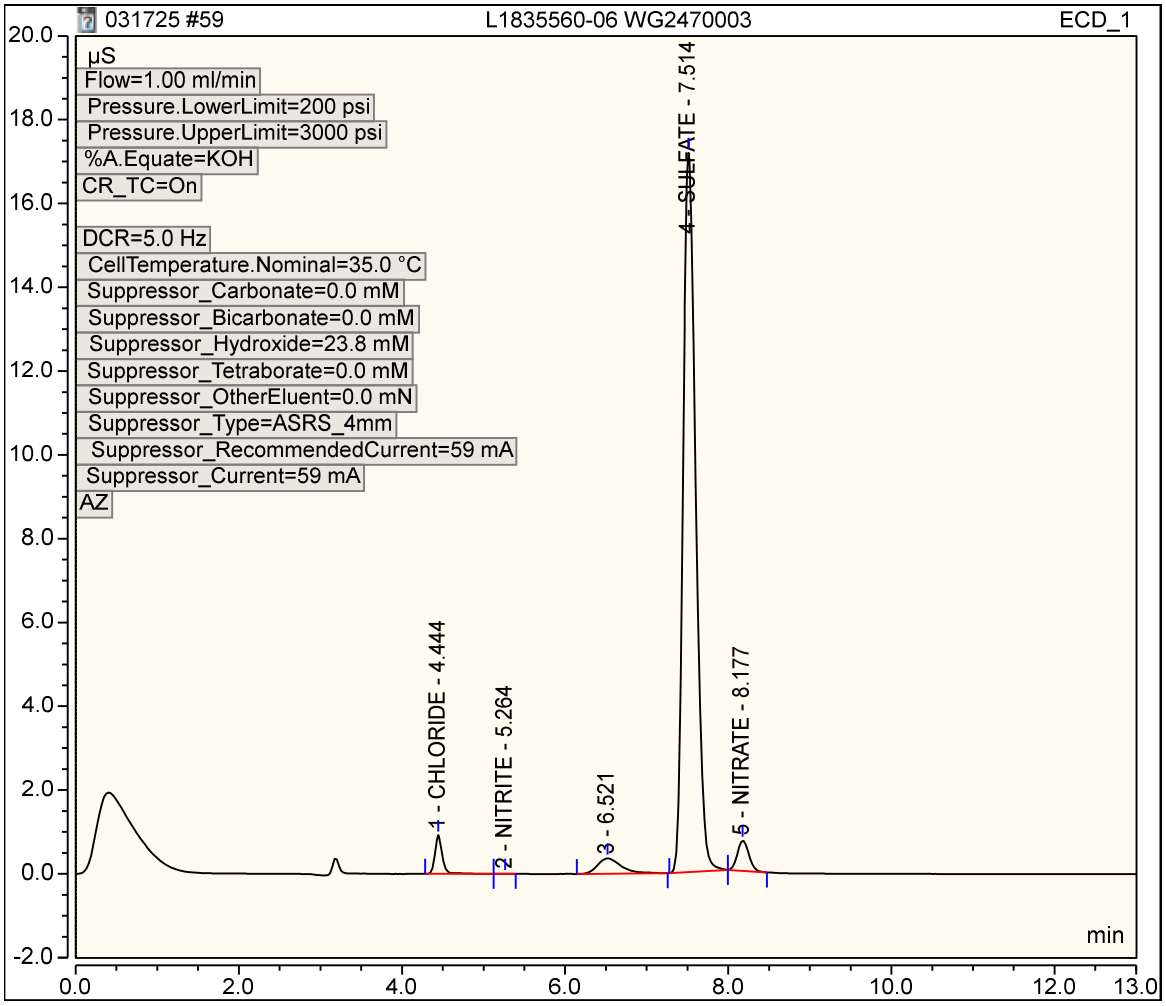
Sample Name:	**L1835499-01 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 00:22**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.018	0.196	0.1261
3	4.44	CHLORIDE	BMB	0.859	8.777	6.9973
5	5.25	NITRITE	BMB	0.004	0.031	0.0588
7	7.03	BROMIDE	BMB	0.000	0.003	0.5387
8	7.55	SULFATE	BMB	1.047	6.239	12.0219
9	8.14	NITRATE	BMB	1.439	8.245	5.1267
		TOTAL:		3.37	23.49	24.87



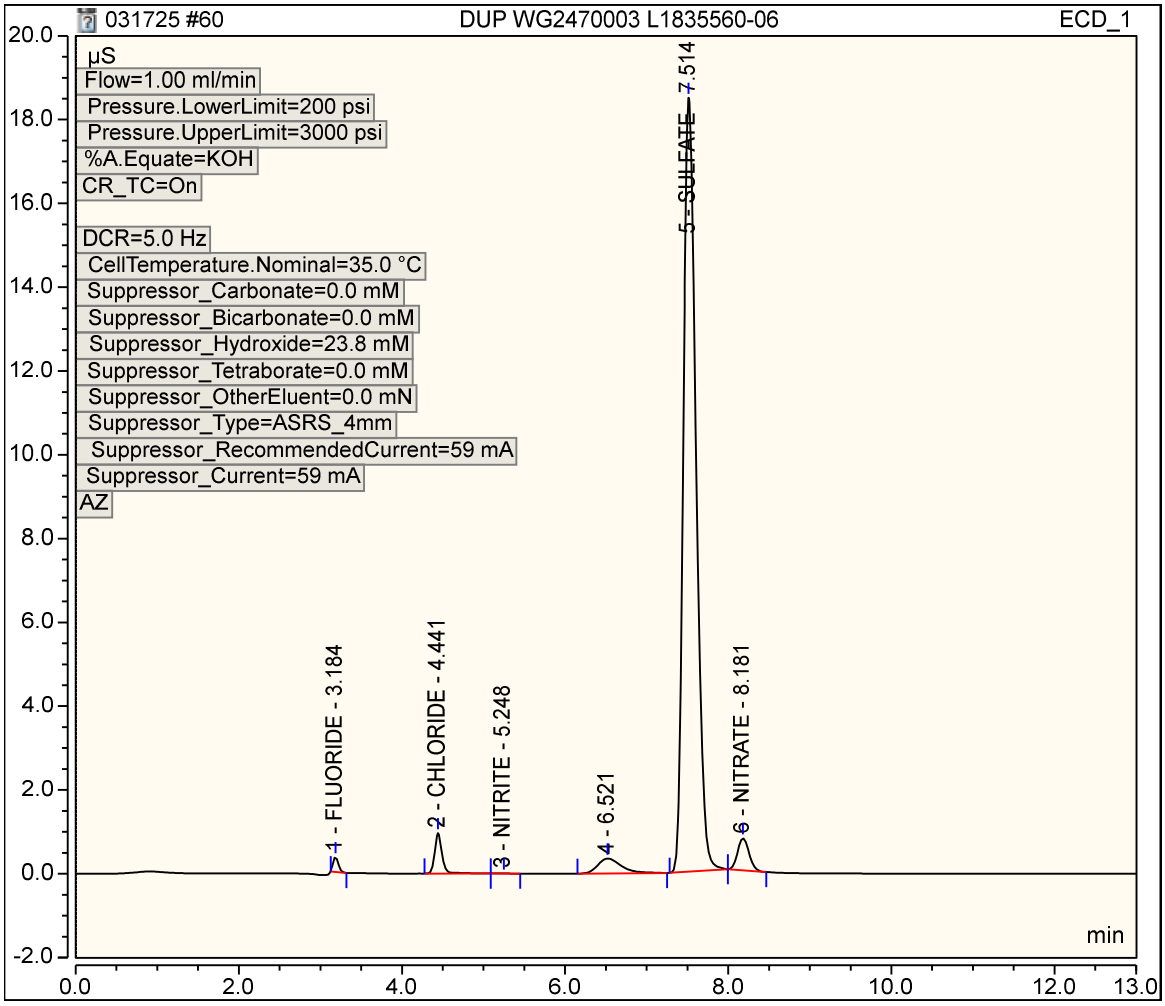
Sample Name:	**L1835560-06 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 00:38**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	4.44	CHLORIDE	BMB	0.096	0.924	0.9416
2	5.26	NITRITE	BMB	0.001	0.005	0.0464
4	7.51	SULFATE	BMB	3.064	17.165	34.7997
5	8.18	NITRATE	BMB	0.117	0.724	0.4763
		TOTAL:		3.28	18.82	36.26



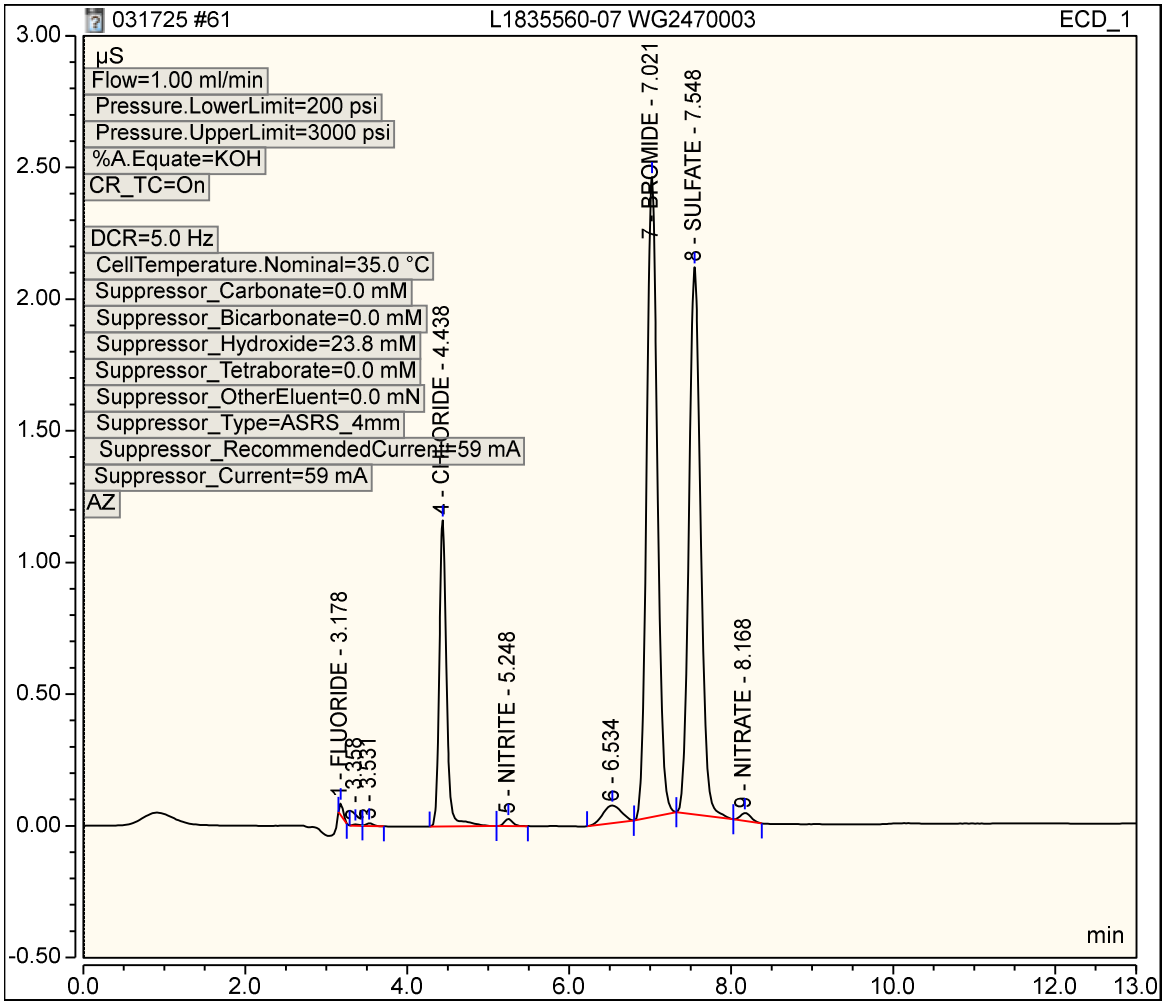
Sample Name:	**DUP WG2470003 L1835560-06**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 00:54**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.026	0.352	0.1682
2	4.44	CHLORIDE	BMB	0.101	0.969	0.9756
3	5.25	NITRITE	BMB	0.000	0.004	0.0462
5	7.51	SULFATE	BMB	3.332	18.473	37.8280
6	8.18	NITRATE	BMB	0.124	0.766	0.5005
		TOTAL:		3.58	20.56	39.52



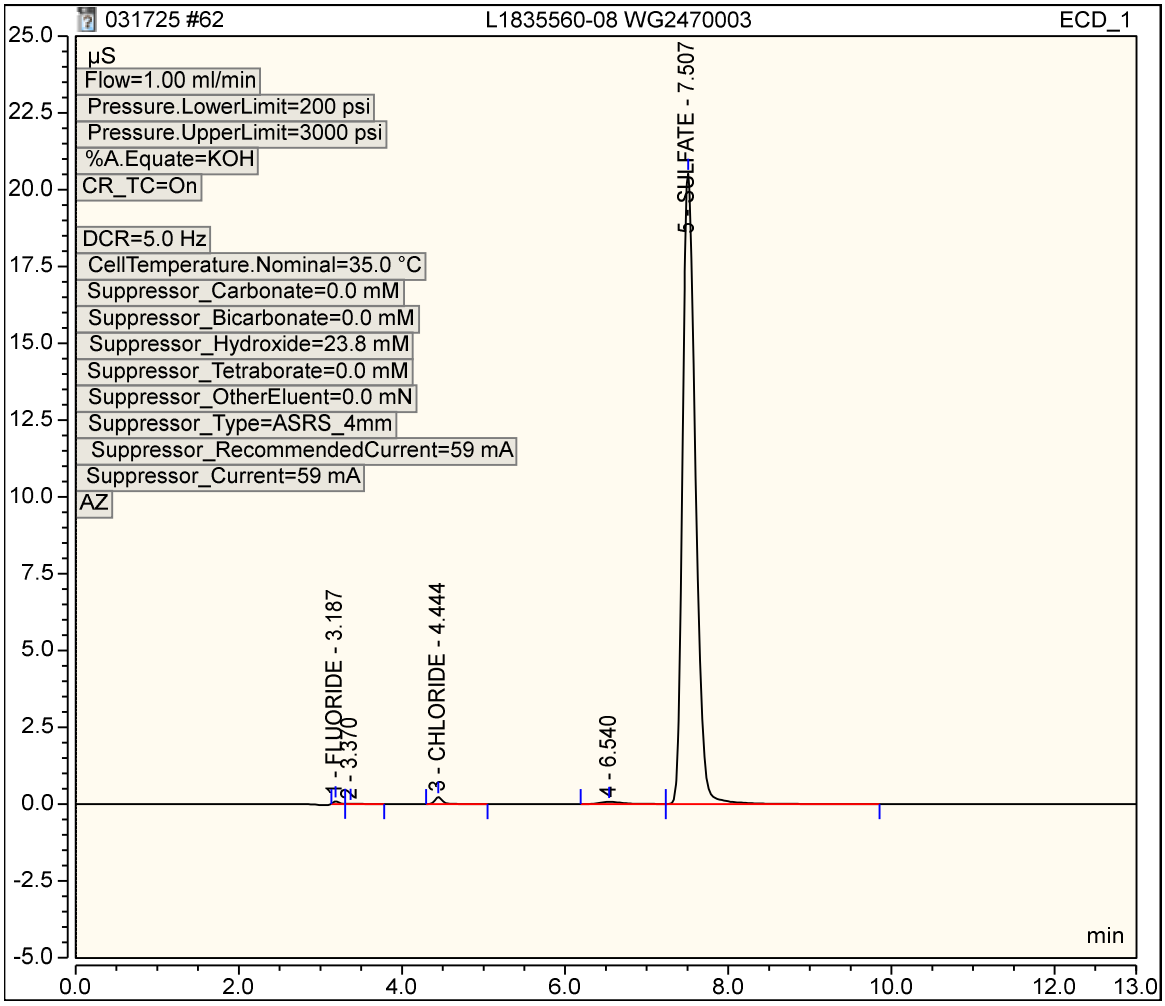
Sample Name:	**L1835560-07 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 01:10**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.002	0.044	0.4544
4	4.44	CHLORIDE	BMB	0.120	1.163	11.3383
5	5.25	NITRITE	BMB	0.003	0.028	0.5761
7	7.02	BROMIDE	BMB	0.375	2.431	77.1681
8	7.55	SULFATE	BMB	0.347	2.078	41.2280
9	8.17	NITRATE	BMB	0.005	0.030	0.8011
		TOTAL:		0.85	5.77	131.57



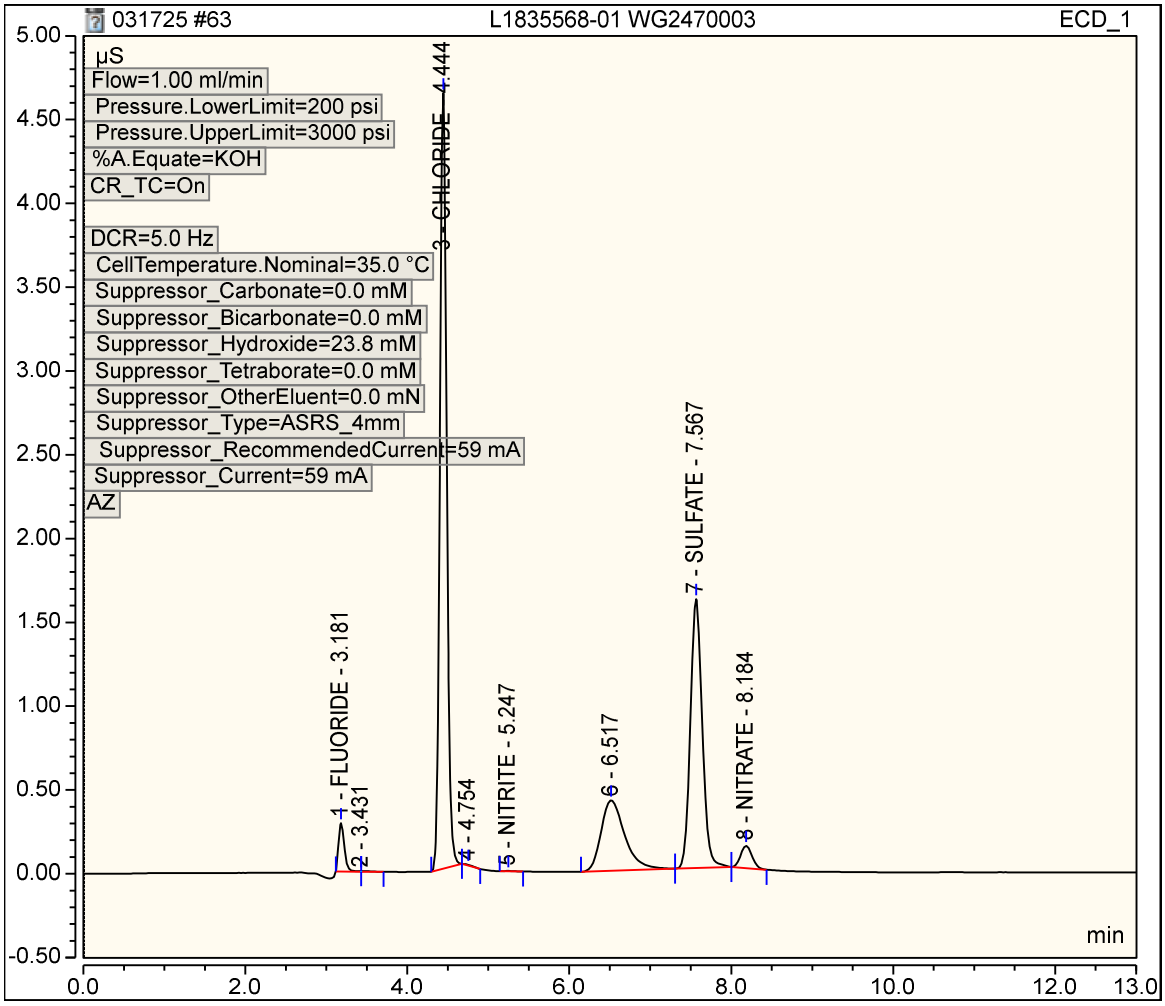
Sample Name:	**L1835560-08 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 01:26**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.007	0.089	0.0678
3	4.44	CHLORIDE	BMB	0.025	0.234	0.3763
5	7.51	SULFATE	BMB	3.782	20.516	42.9043
TOTAL:				3.81	20.84	43.35



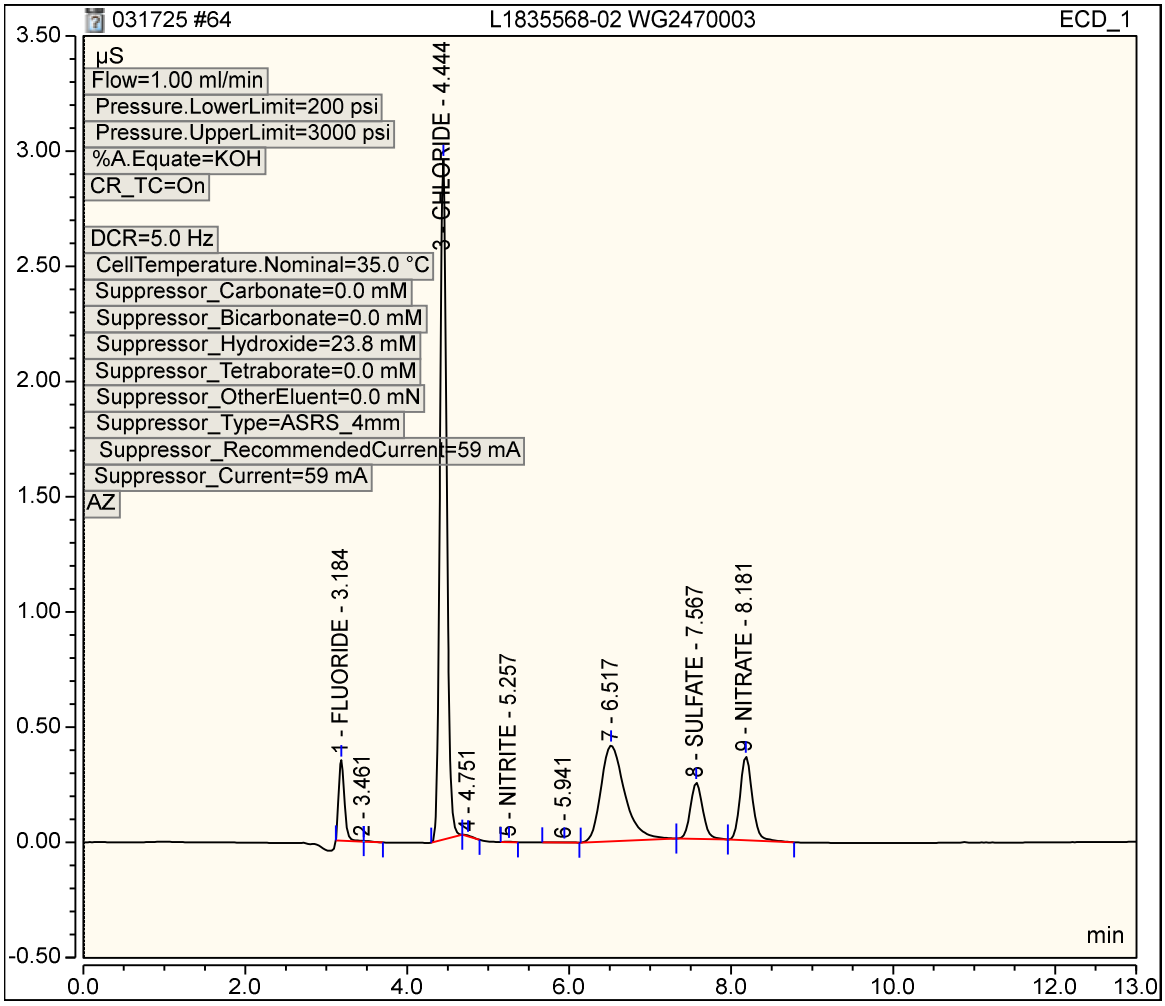
Sample Name:	**L1835568-01 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 01:41**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.024	0.288	0.1555
3	4.44	CHLORIDE	BMB	0.448	4.628	3.7325
5	5.25	NITRITE	BMB	0.000	0.002	0.0452
7	7.57	SULFATE	BMB	0.272	1.605	3.2758
8	8.18	NITRATE	BMB	0.022	0.133	0.1407
TOTAL:				0.77	6.66	7.35



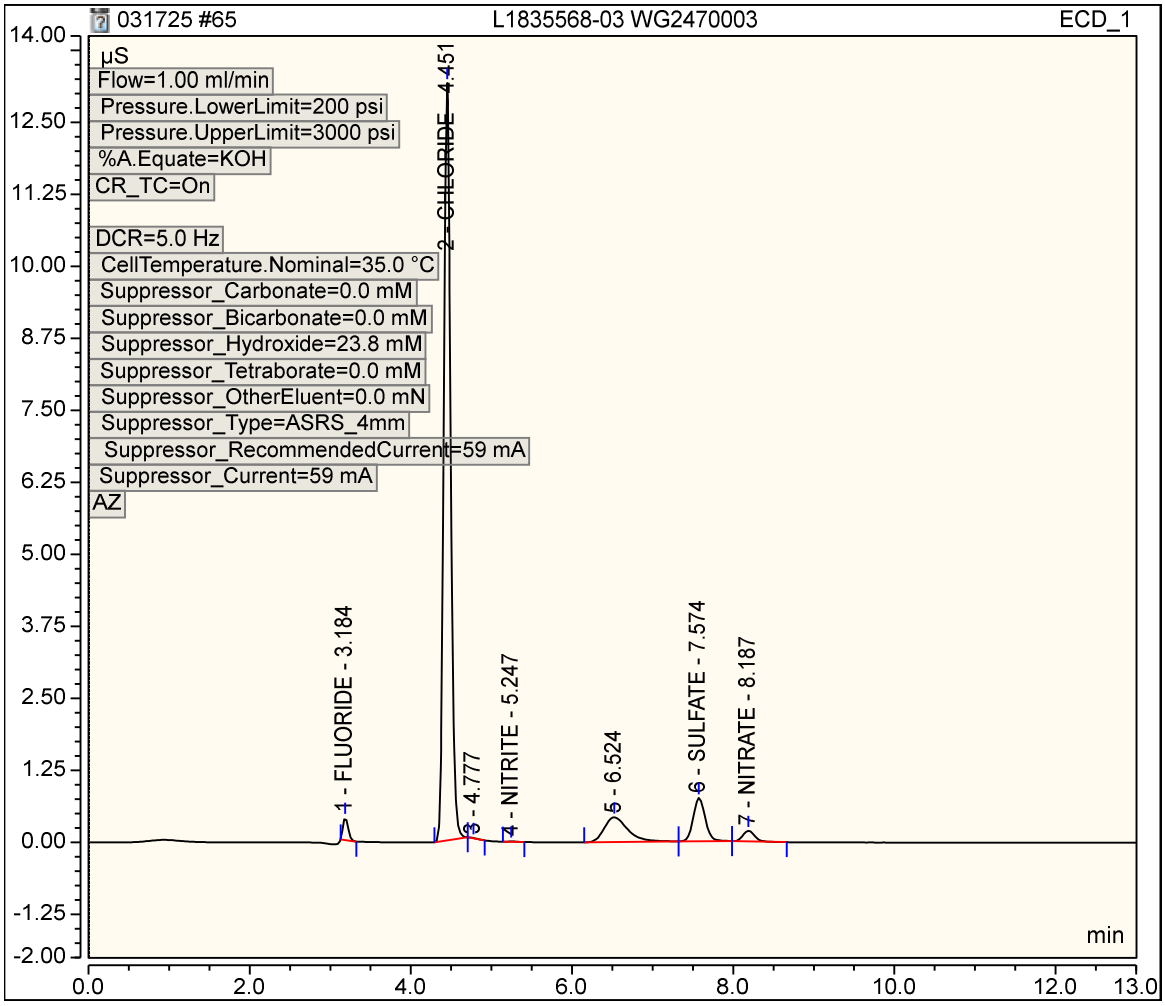
Sample Name:	**L1835568-02 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 01:57**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.029	0.349	0.1813
3	4.44	CHLORIDE	BMB	0.285	2.951	2.4398
5	5.26	NITRITE	BMB	0.000	0.003	0.0454
8	7.57	SULFATE	BMB	0.043	0.244	0.6864
9	8.18	NITRATE	BMB	0.064	0.364	0.2879
TOTAL:				0.42	3.91	3.64



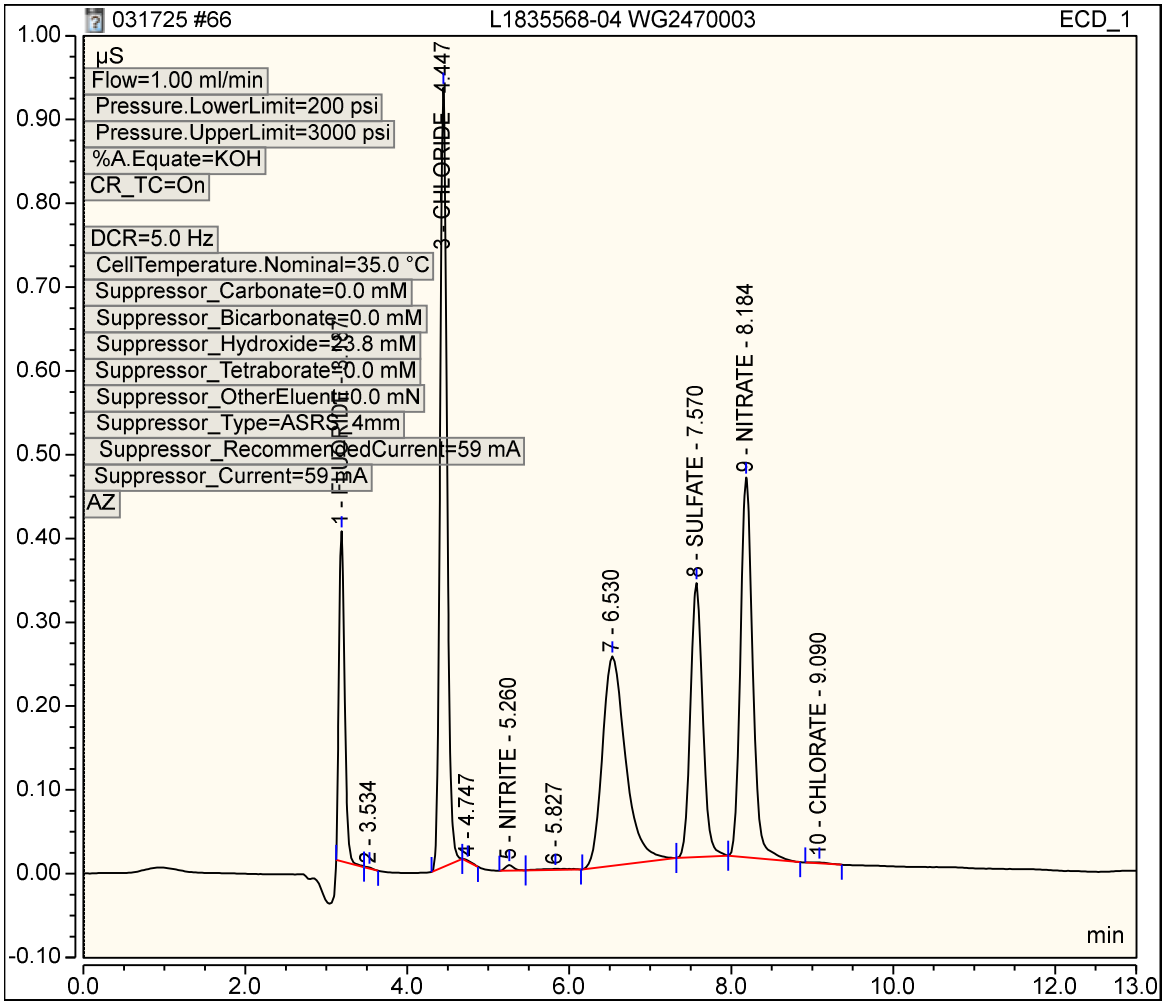
Sample Name:	**L1835568-03 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 02:13**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.030	0.390	0.1855
2	4.45	CHLORIDE	BMB	1.299	13.146	10.4896
4	5.25	NITRITE	BMB	0.001	0.008	0.0477
6	7.57	SULFATE	BMB	0.129	0.752	1.6628
7	8.19	NITRATE	BMB	0.031	0.183	0.1735
TOTAL:				1.49	14.48	12.56



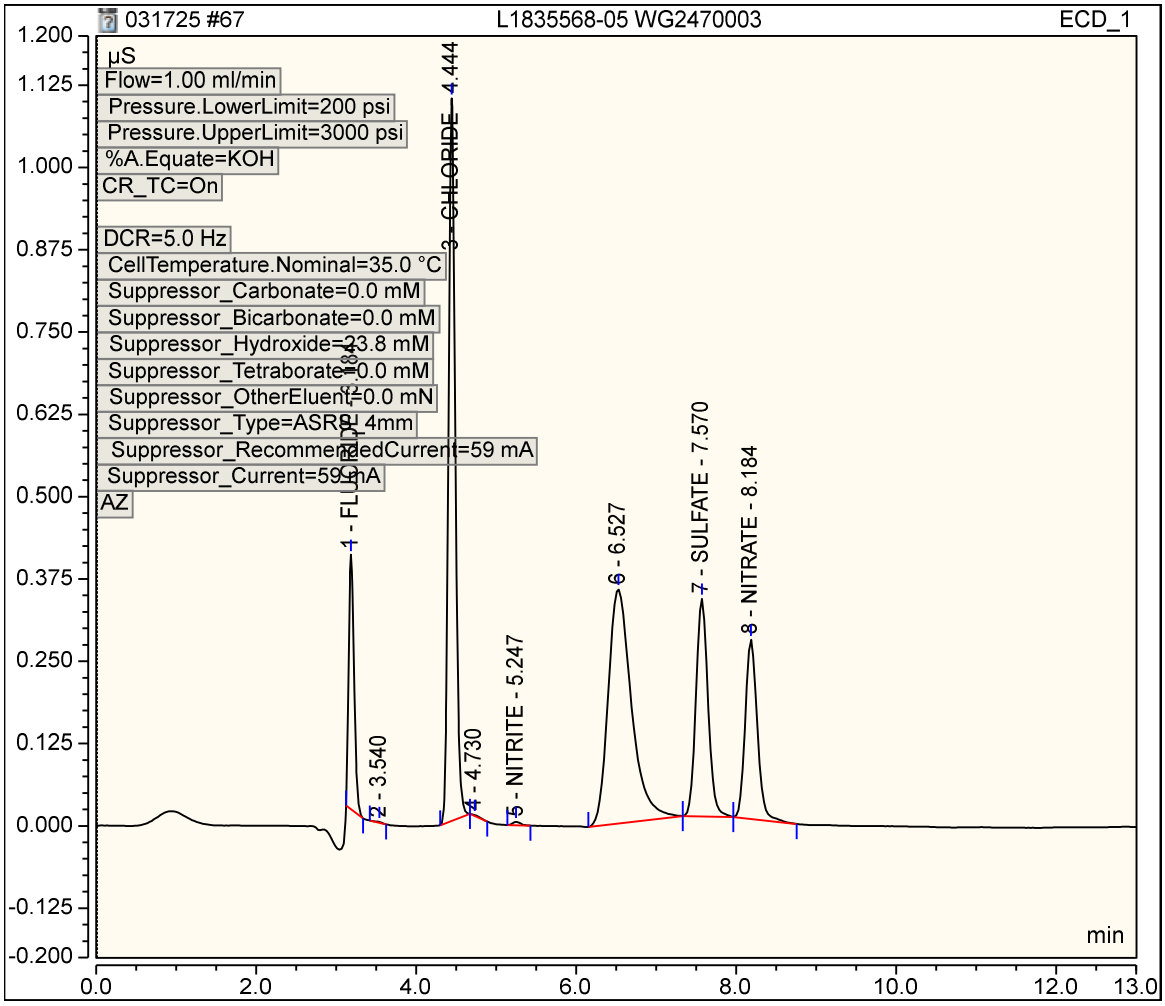
Sample Name:	**L1835568-04 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 02:29**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.032	0.394	0.1969
3	4.45	CHLORIDE	BMB	0.092	0.930	0.9066
5	5.26	NITRITE	BMB	0.001	0.007	0.0474
8	7.57	SULFATE	BMB	0.057	0.327	0.8492
9	8.18	NITRATE	BMB	0.079	0.453	0.3436
10	9.09	CHLORATE	BMB	0.000	0.001	0.0348
		TOTAL:		0.26	2.11	2.38



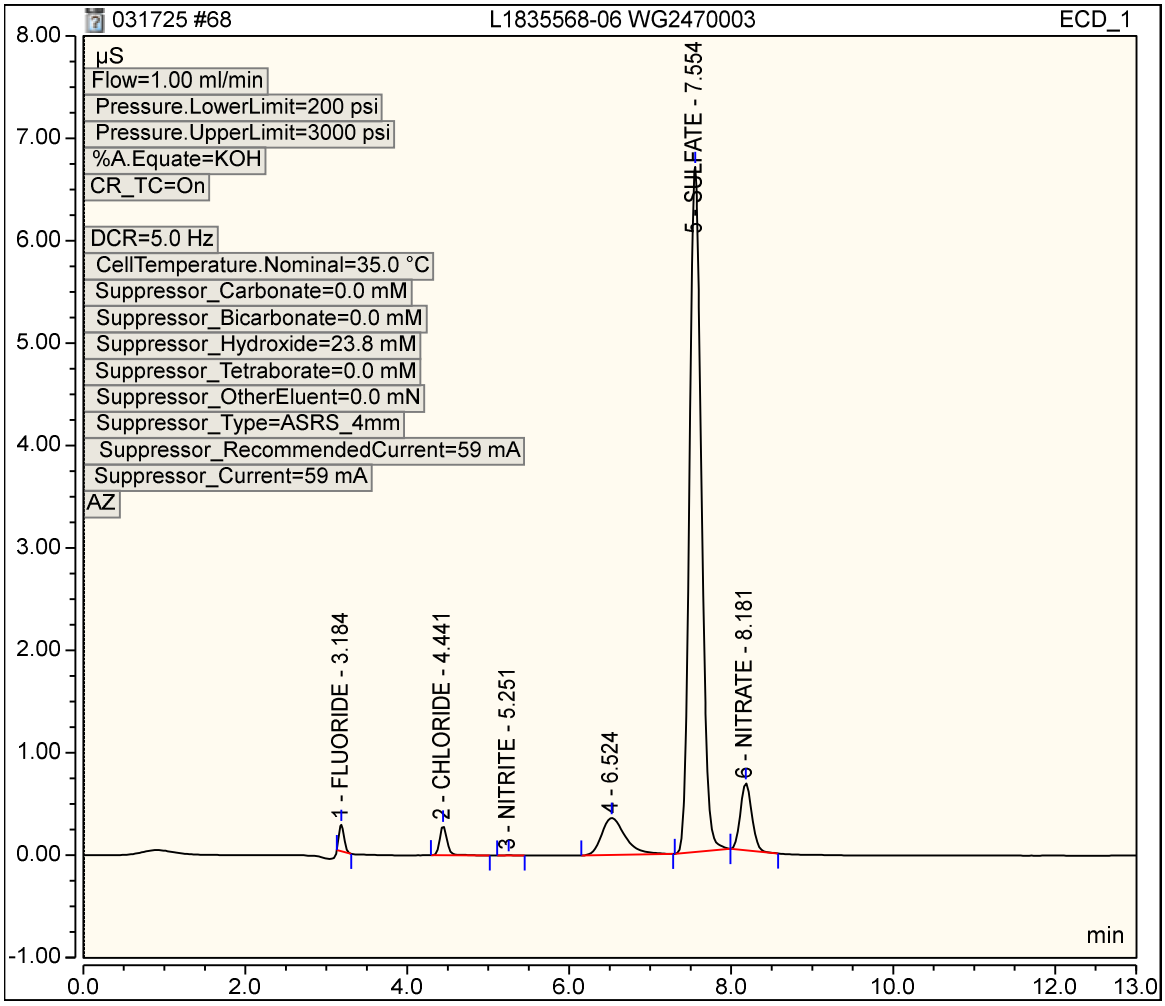
Sample Name:	**L1835568-05 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 02:45**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.030	0.387	0.1880
3	4.44	CHLORIDE	BMB	0.108	1.097	1.0319
5	5.25	NITRITE	BMB	0.001	0.005	0.0468
7	7.57	SULFATE	BMB	0.058	0.331	0.8553
8	8.18	NITRATE	BMB	0.048	0.272	0.2316
		TOTAL:		0.24	2.09	2.35



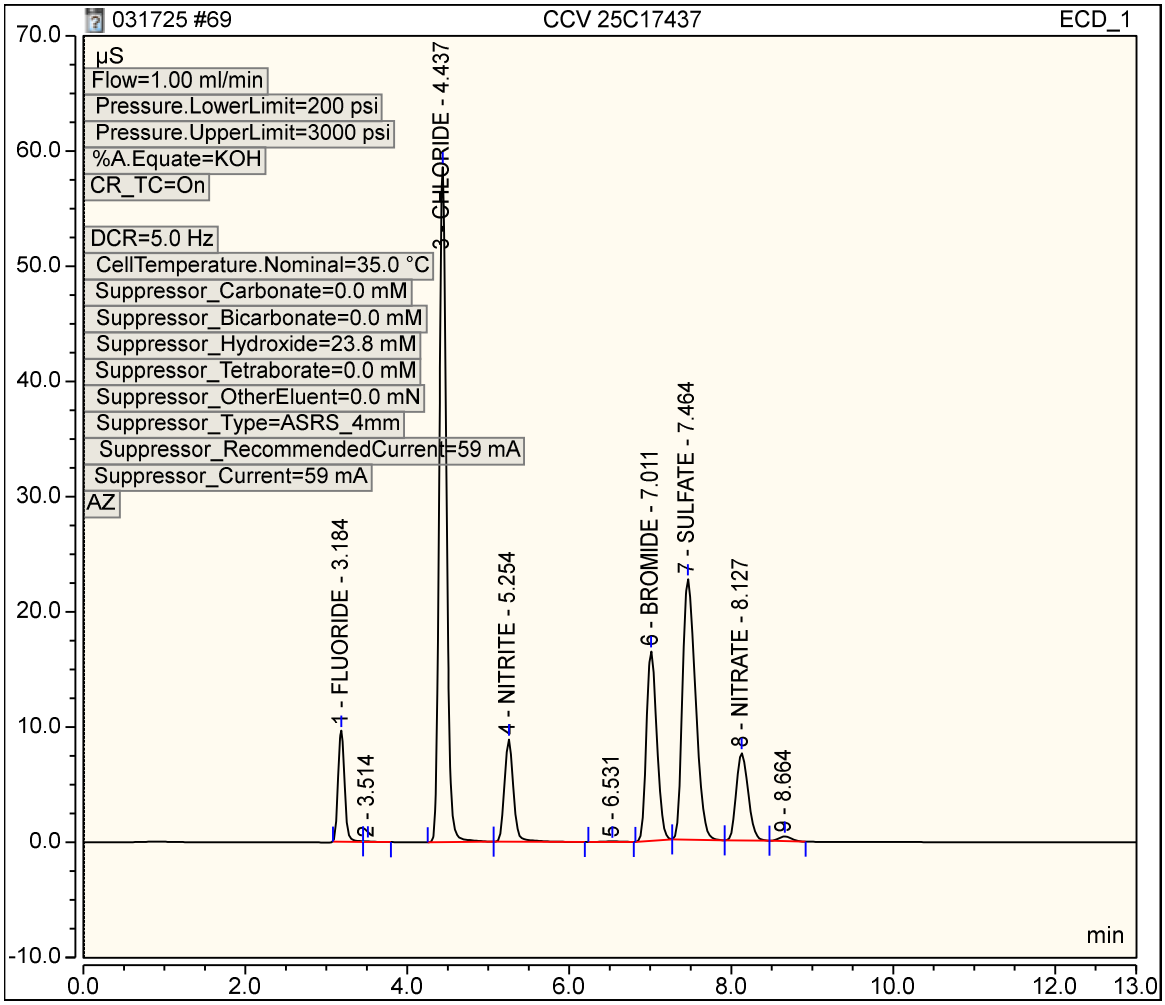
Sample Name:	**L1835568-06 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 03:01**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BMB	0.019	0.259	0.1297
2	4.44	CHLORIDE	BMB	0.031	0.291	0.4236
3	5.25	NITRITE	BMB	0.001	0.005	0.0464
5	7.55	SULFATE	BMB	1.135	6.691	13.0150
6	8.18	NITRATE	BMB	0.108	0.656	0.4424
TOTAL:				1.29	7.90	14.06



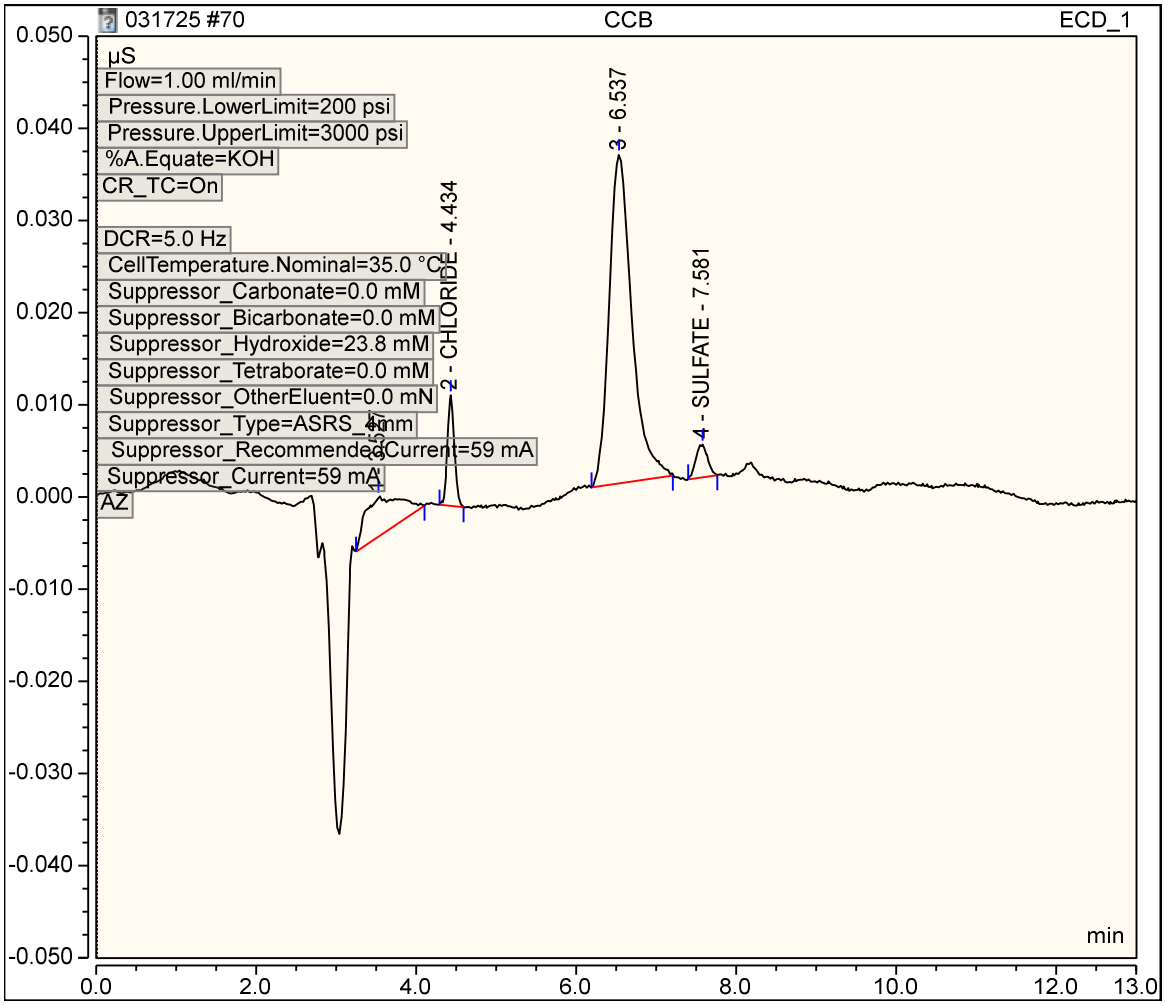
Sample Name:	**CCV 25C17437**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 03:17**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.887	9.632	4.6089
3	4.44	CHLORIDE	BMB	6.055	58.591	48.2578
4	5.25	NITRITE	BMB	1.148	8.883	4.7626
6	7.01	BROMIDE	BMB	2.455	16.444	47.6029
7	7.46	SULFATE	BMB	4.228	22.614	47.9429
8	8.13	NITRATE	BMB	1.298	7.591	4.6308
		TOTAL:		16.07	123.75	157.81



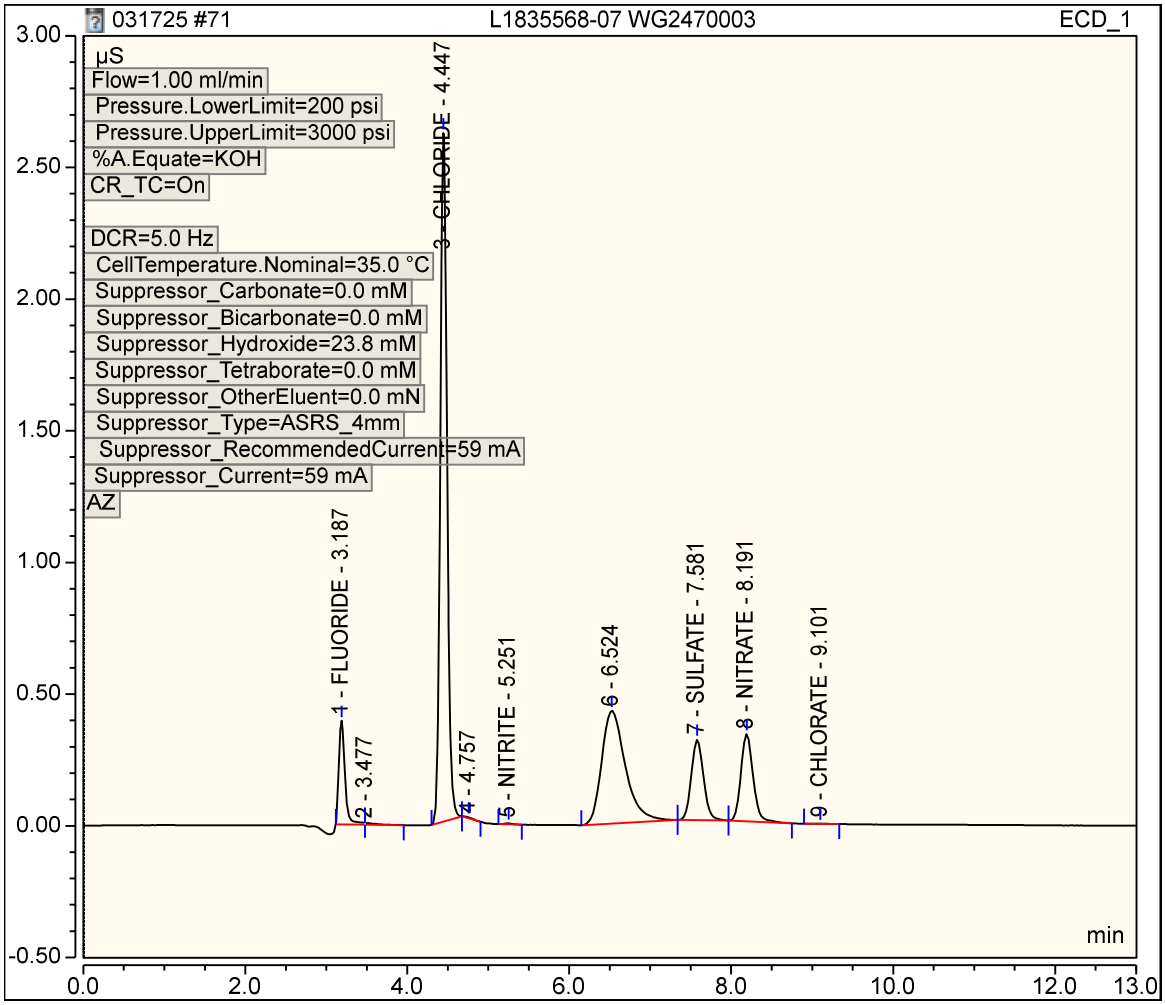
Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 03:32**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
2	4.43	CHLORIDE	BMB	0.001	0.012	0.1870
4	7.58	SULFATE	BMB	0.001	0.004	0.2092
		TOTAL:		0.00	0.02	0.40



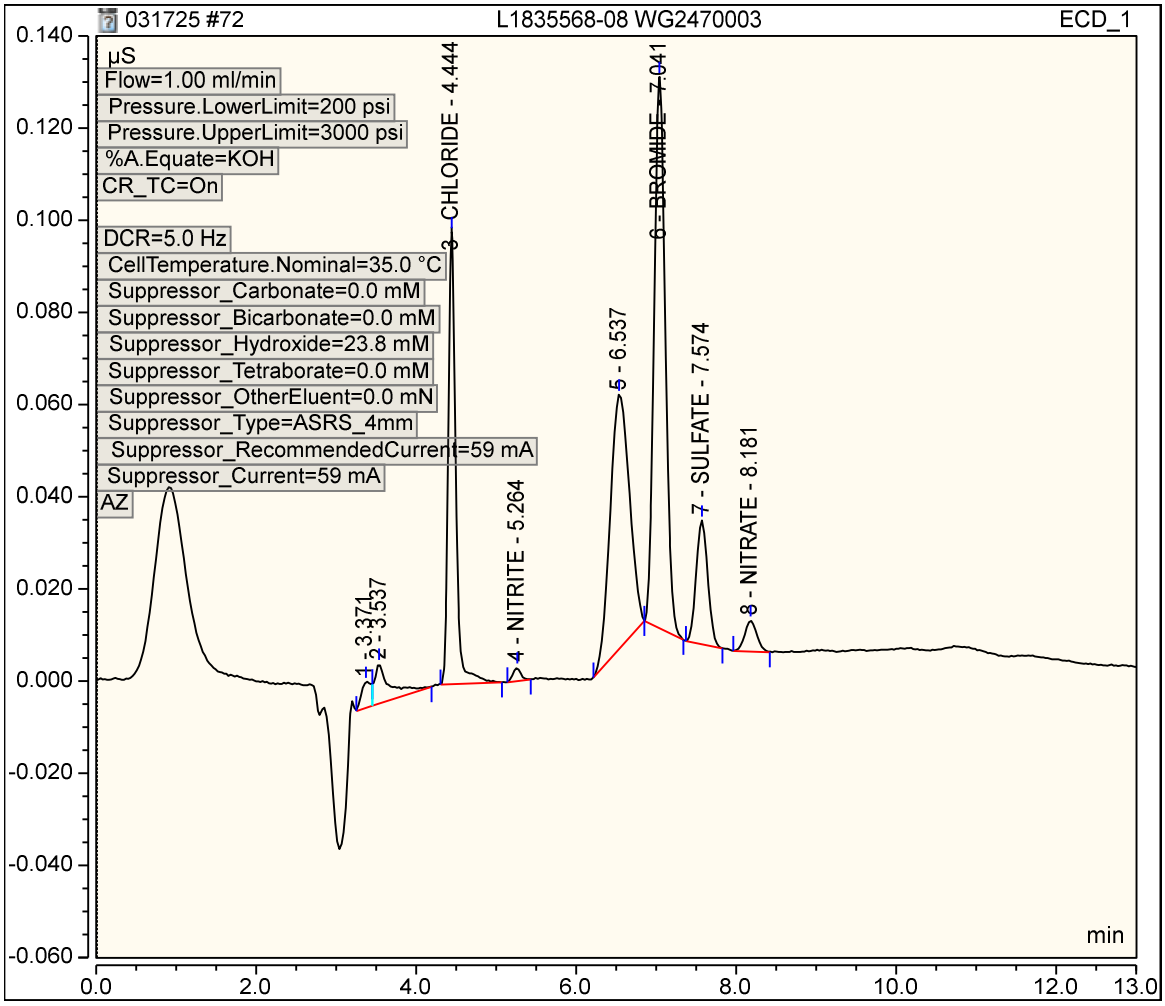
Sample Name:	**L1835568-07 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 03:48**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.034	0.393	0.2085
3	4.45	CHLORIDE	BMB	0.253	2.614	2.1835
5	5.25	NITRITE	BMB	0.000	0.004	0.0460
7	7.58	SULFATE	BMB	0.054	0.306	0.8084
8	8.19	NITRATE	BMB	0.058	0.332	0.2680
9	9.10	CHLORATE	BMB	0.000	0.001	0.0345
		TOTAL:		0.40	3.65	3.55



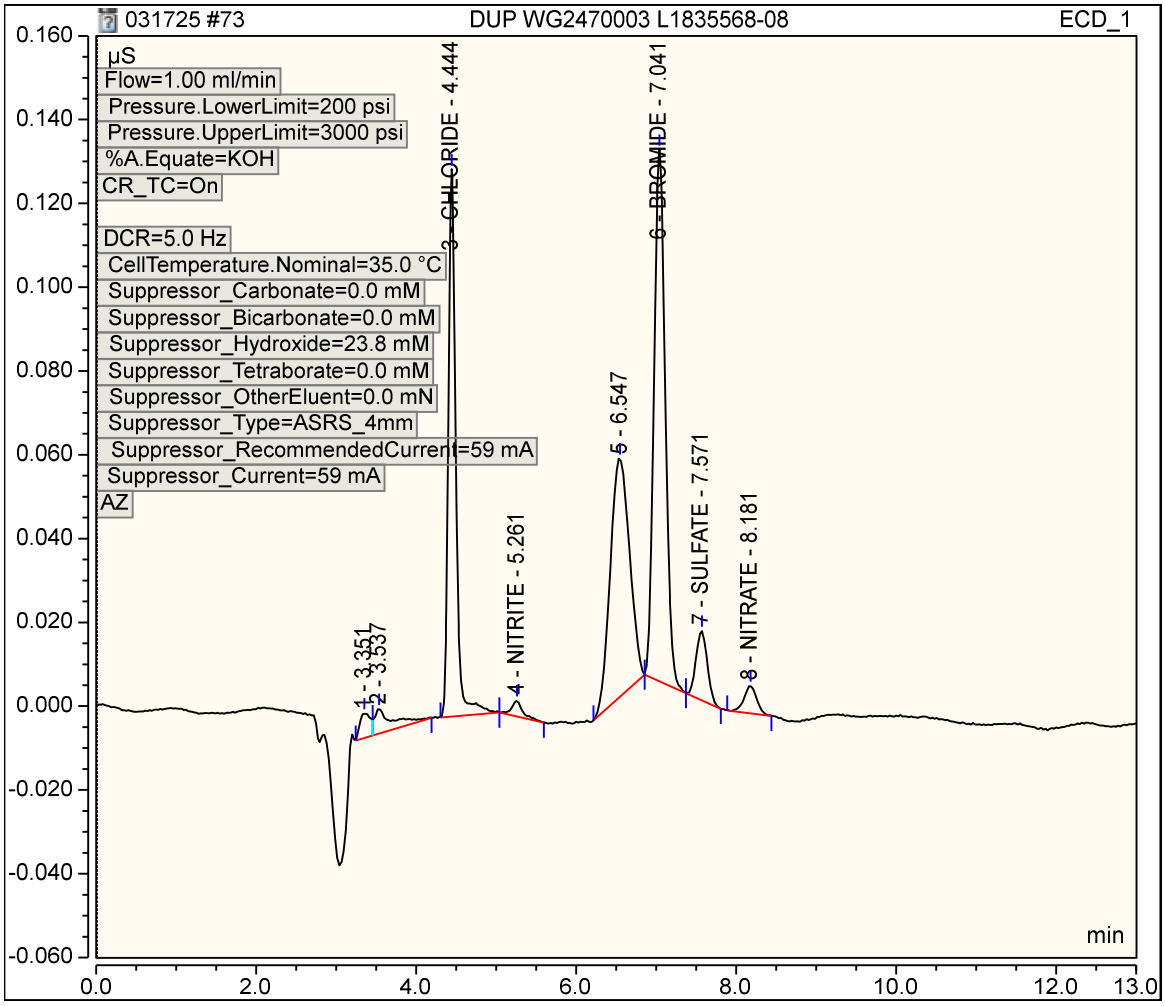
Sample Name:	**L1835568-08 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 04:04**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.44	CHLORIDE	BMB	0.011	0.098	26.2380
4	5.26	NITRITE	BMB	0.000	0.003	4.5637
6	7.04	BROMIDE	BMB	0.019	0.120	90.3352
7	7.57	SULFATE	BMB	0.005	0.027	25.3268
8	8.18	NITRATE	BMB	0.001	0.007	6.8097
		TOTAL:		0.04	0.25	153.27



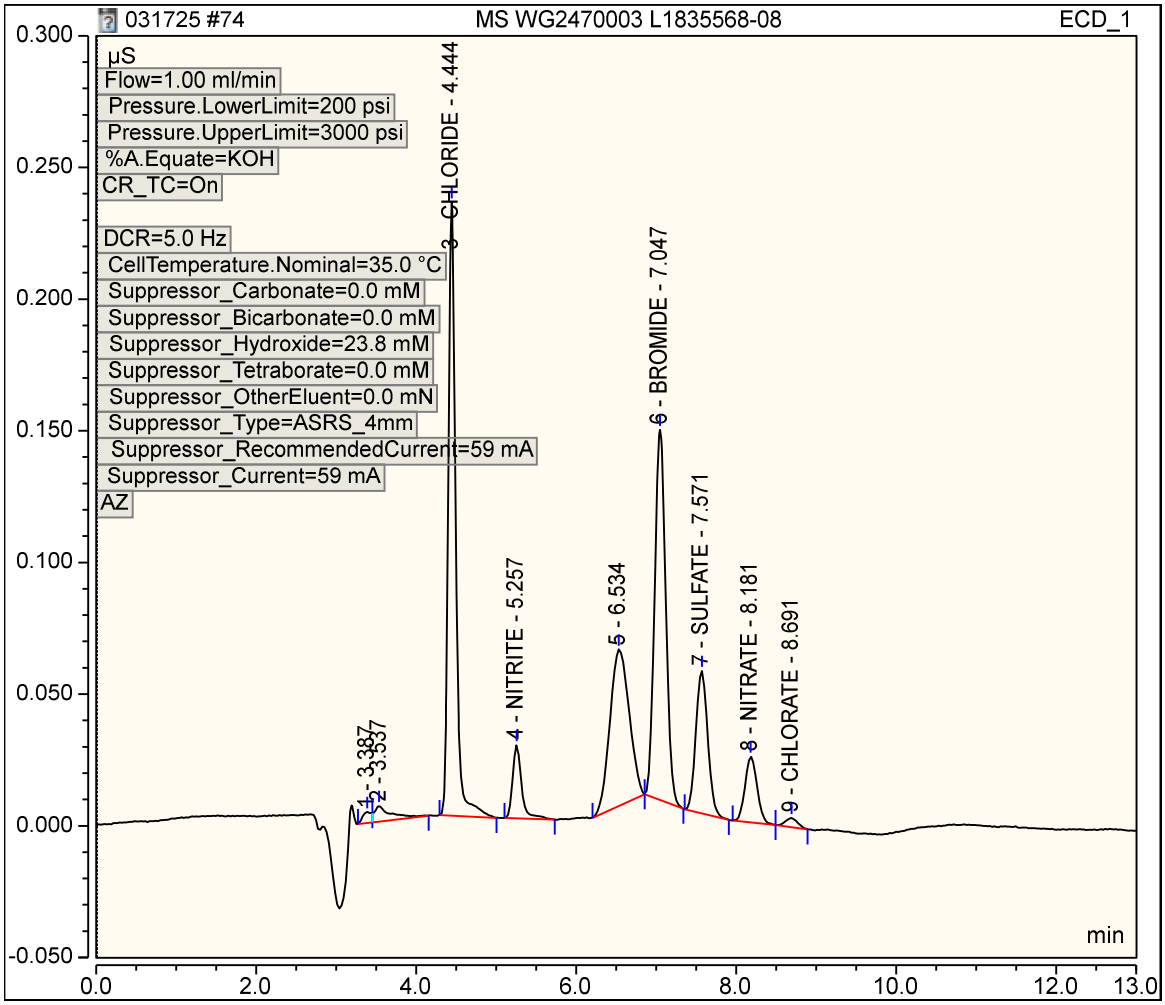
Sample Name:	**DUP WG2470003 L1835568-08**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 04:20**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.44	CHLORIDE	BMB	0.014	0.131	28.9852
4	5.26	NITRITE	BMB	0.001	0.004	4.6780
6	7.04	BROMIDE	BMB	0.021	0.127	92.6883
7	7.57	SULFATE	BMB	0.003	0.017	23.3415
8	8.18	NITRATE	BMB	0.001	0.007	6.8261
		TOTAL:		0.04	0.28	156.52



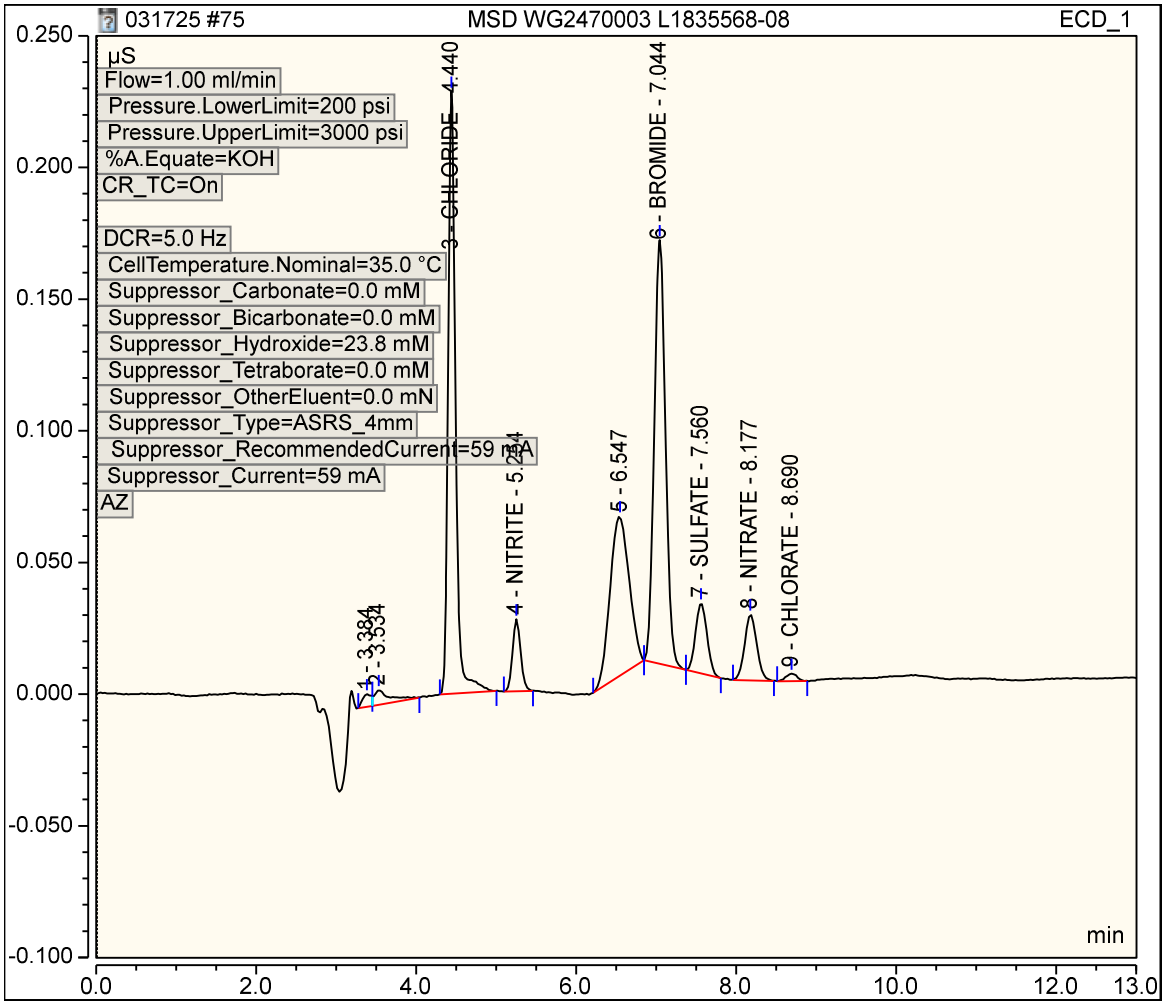
Sample Name:	**MS WG2470003 L1835568-08**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 04:36**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.44	CHLORIDE	BMB	0.025	0.233	37.6084
4	5.26	NITRITE	BMB	0.004	0.028	5.9289
6	7.05	BROMIDE	BMB	0.023	0.141	96.3291
7	7.57	SULFATE	BMB	0.009	0.054	30.7797
8	8.18	NITRATE	BMB	0.004	0.025	7.9380
9	8.69	CHLORATE	BMB	0.001	0.004	4.7449
		TOTAL:		0.07	0.48	183.33



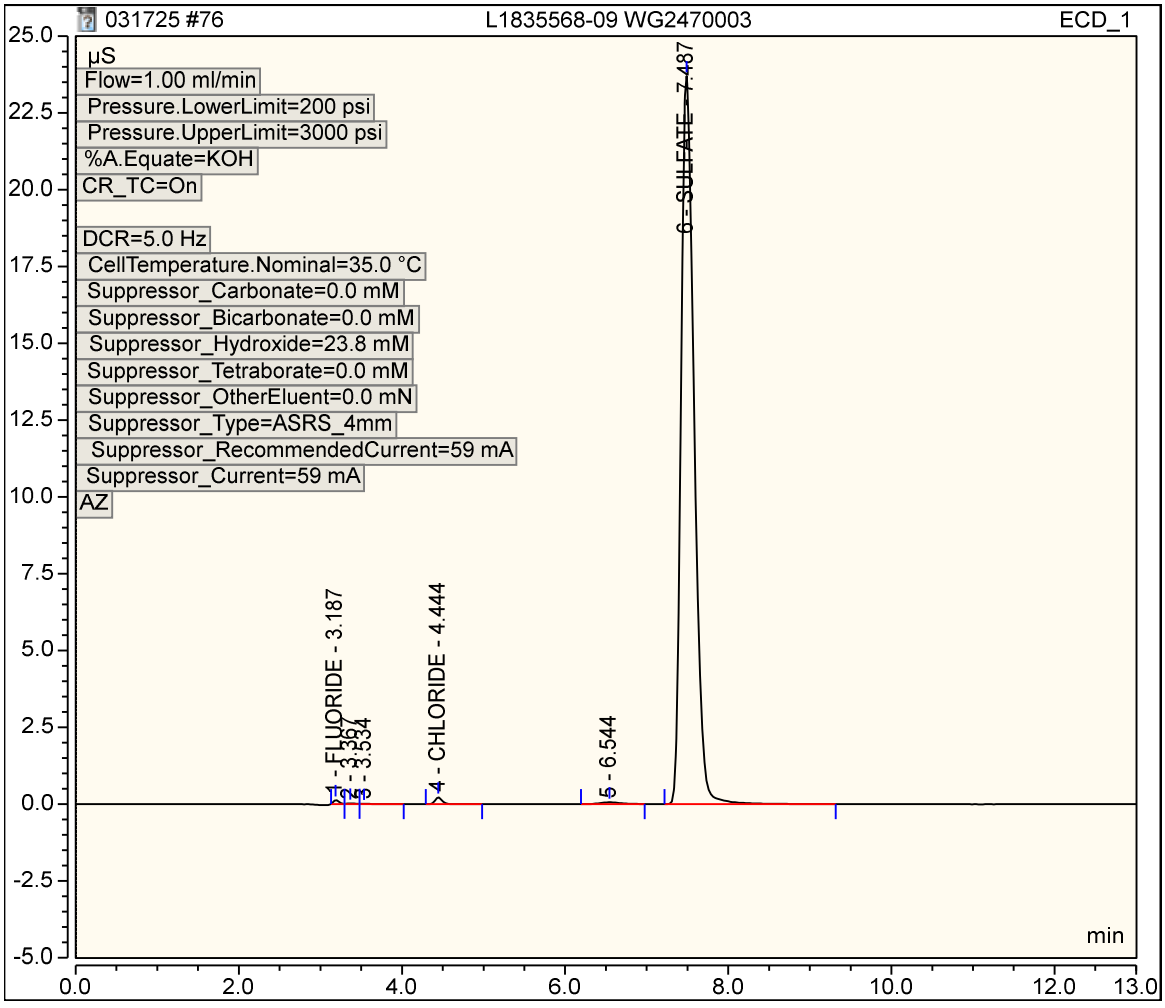
Sample Name:	**MSD WG2470003 L1835568-08**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**100.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 04:52**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
3	4.44	CHLORIDE	BMB	0.025	0.229	37.2656
4	5.25	NITRITE	BMB	0.003	0.027	5.7570
6	7.04	BROMIDE	BMB	0.026	0.161	103.0688
7	7.56	SULFATE	BMB	0.004	0.027	25.2761
8	8.18	NITRATE	BMB	0.004	0.025	7.9512
9	8.69	CHLORATE	BMB	0.000	0.003	4.2558
		TOTAL:		0.06	0.47	183.57



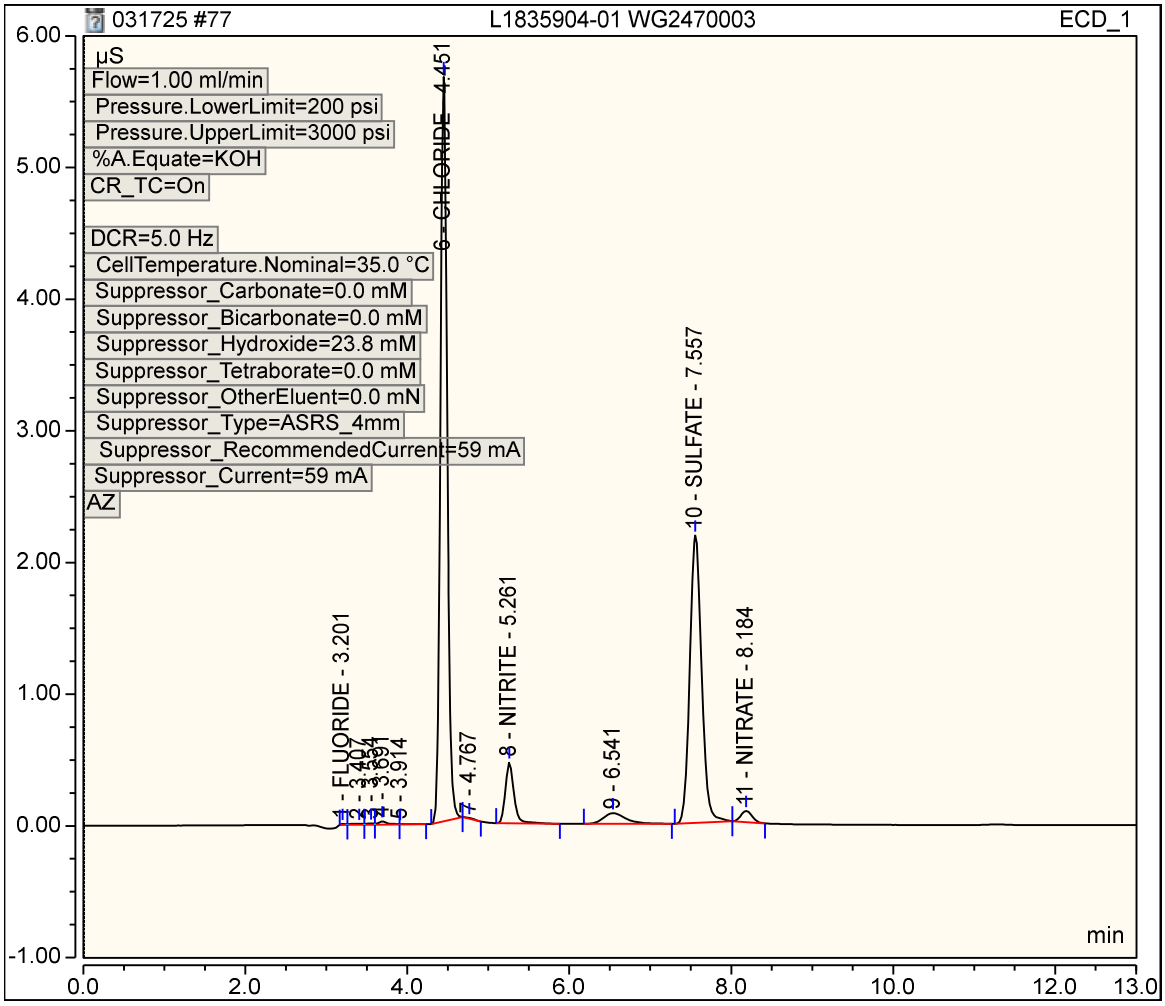
Sample Name:	**L1835568-09 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 05:08**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.010	0.127	0.0854
4	4.44	CHLORIDE	BMB	0.024	0.223	0.3665
6	7.49	SULFATE	BMB	4.430	23.693	50.2203
		TOTAL:		4.46	24.04	50.67



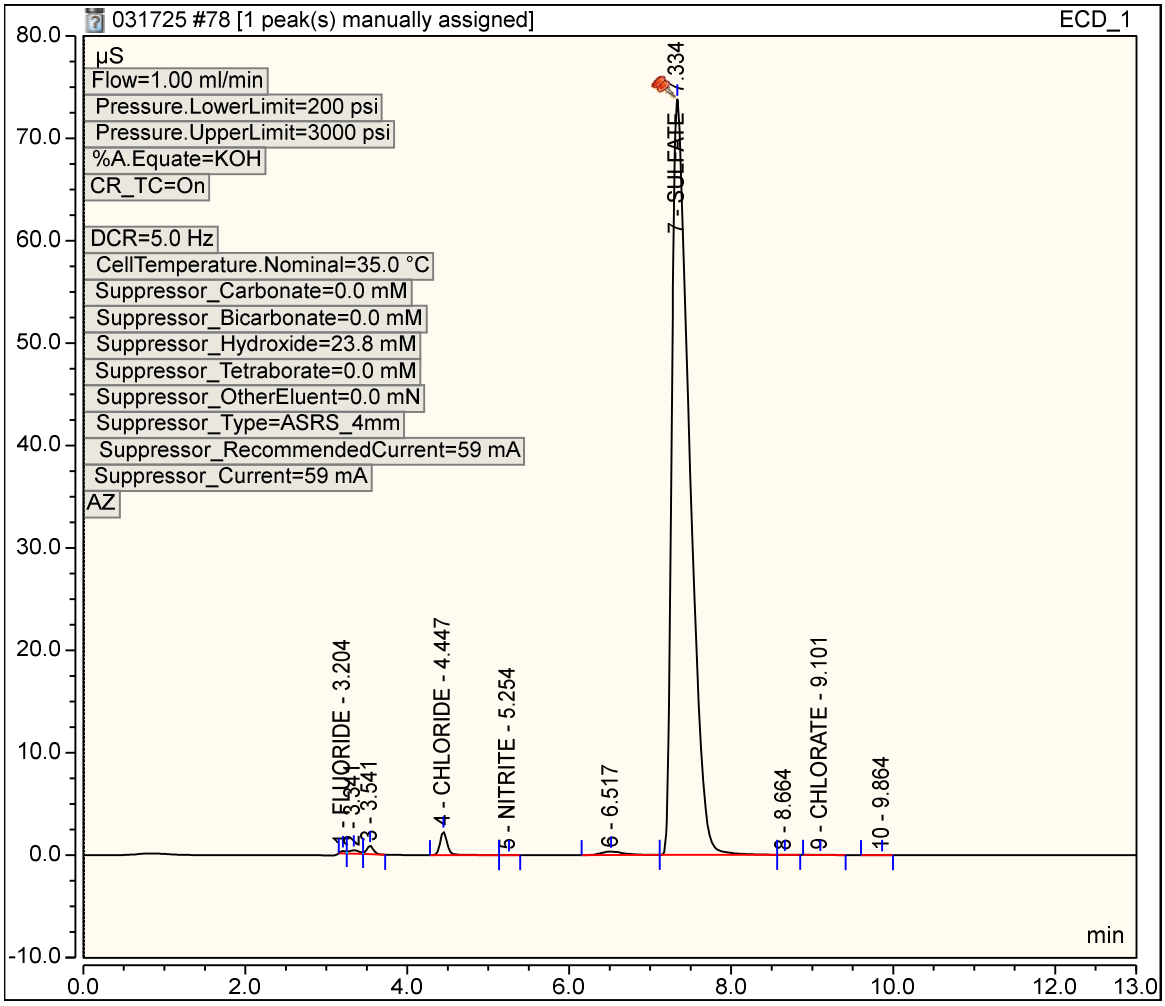
Sample Name:	**L1835904-01 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 05:23**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.20	FLUORIDE	BM	0.001	0.009	0.3625
6	4.45	CHLORIDE	BMB	0.549	5.652	45.3844
8	5.26	NITRITE	BMB	0.057	0.463	2.7918
10	7.56	SULFATE	BMB	0.368	2.183	43.5312
11	8.18	NITRATE	BMB	0.014	0.086	1.1229
TOTAL:				0.99	8.39	93.19



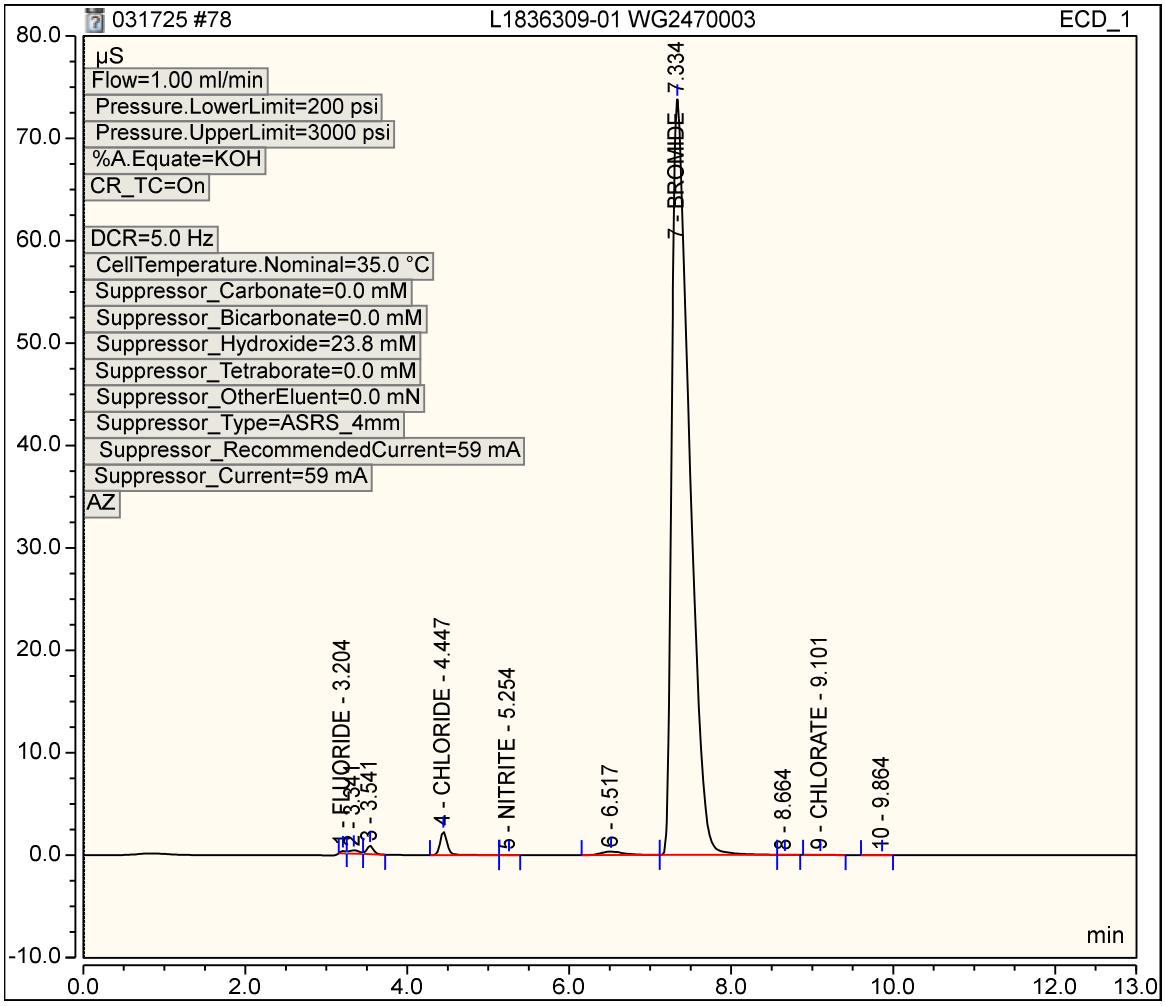
Sample Name:	**L1836309-01 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/18/25 05:39**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.20	FLUORIDE	BM	0.017	0.222	0.1200
4	4.45	CHLORIDE	BMB	0.237	2.310	2.0616
5	5.25	NITRITE	BMB	0.001	0.010	0.0485
7	7.33	SULFATE	BMB^	18.560	73.760	209.7569
9	9.10	CHLORATE	BMB	0.004	0.018	0.1488
		TOTAL:		18.82	76.32	212.14



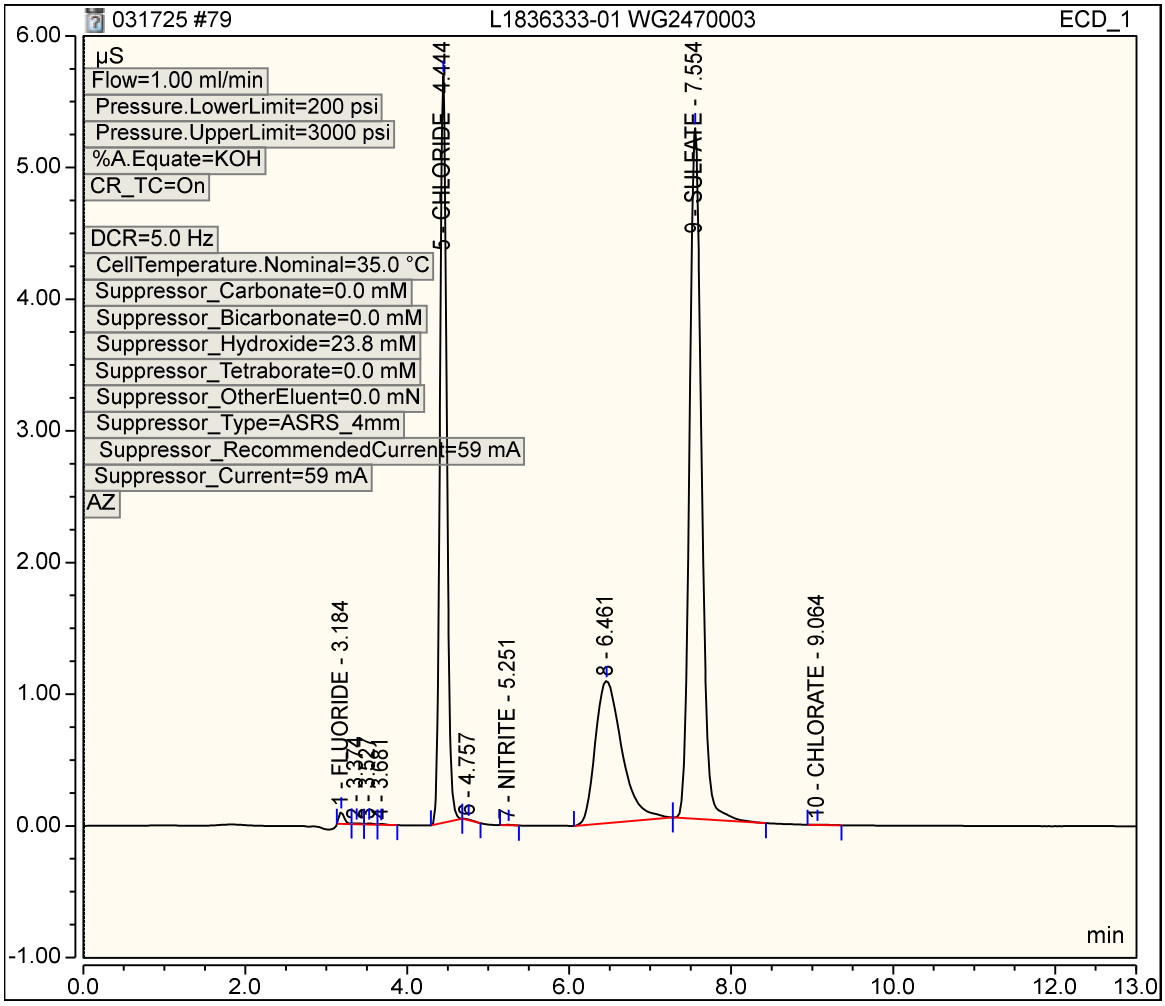
Sample Name:	**L1836309-01 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 05:39**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.20	FLUORIDE	BM	0.017	0.222	0.1200
4	4.45	CHLORIDE	BMB	0.237	2.310	2.0616
5	5.25	NITRITE	BMB	0.001	0.010	0.0485
7	7.33	BROMIDE	BMB	18.560	73.760	356.3790
9	9.10	CHLORATE	BMB	0.004	0.018	0.1488
		TOTAL:		18.82	76.32	358.76



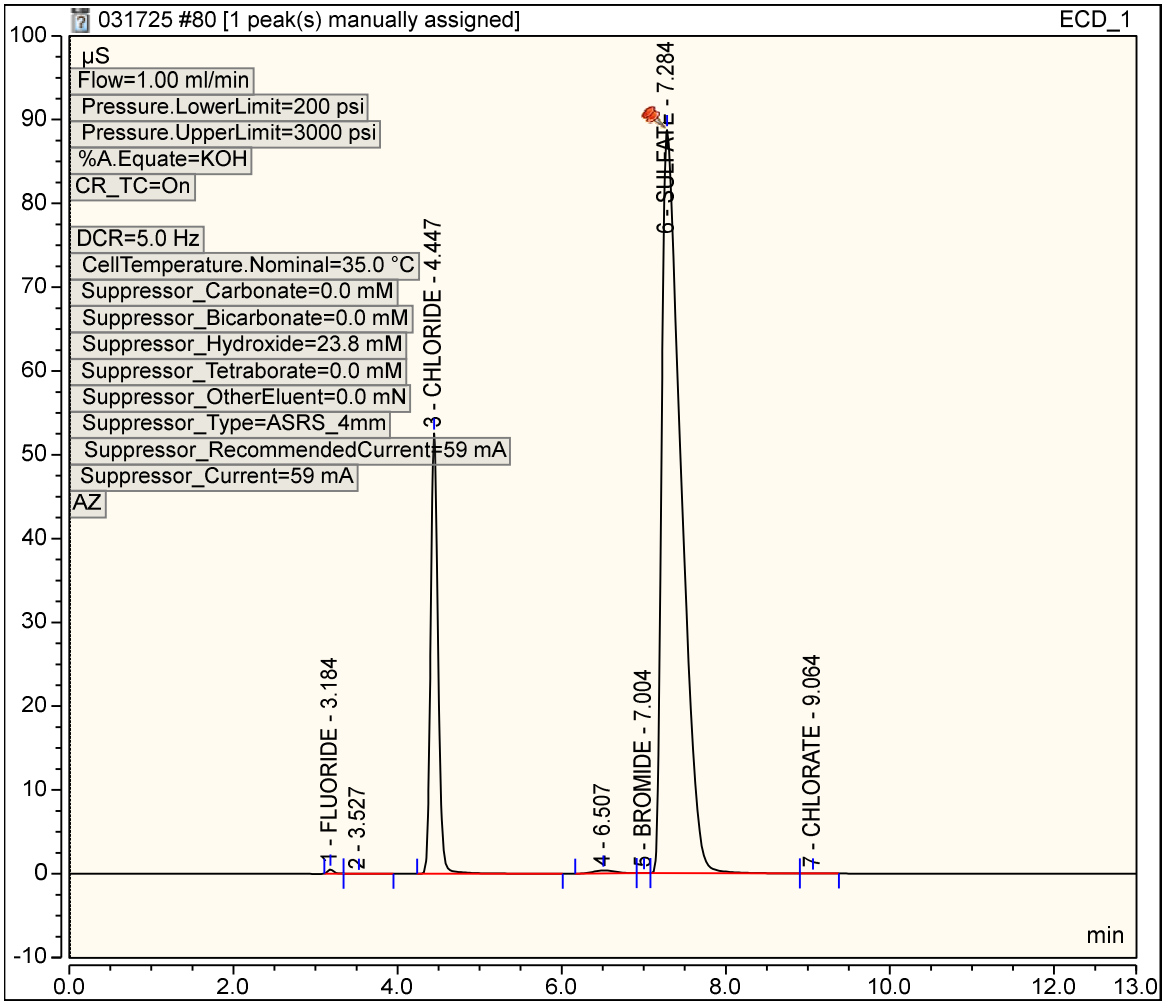
Sample Name:	**L1836333-01 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 05:55**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.007	0.090	0.0690
5	4.44	CHLORIDE	BMB	0.549	5.674	4.5390
7	5.25	NITRITE	BMB	0.000	0.004	0.0459
9	7.55	SULFATE	BMB	0.901	5.246	10.3802
10	9.06	CHLORATE	BMB	0.000	0.002	0.0409
		TOTAL:		1.46	11.02	15.08



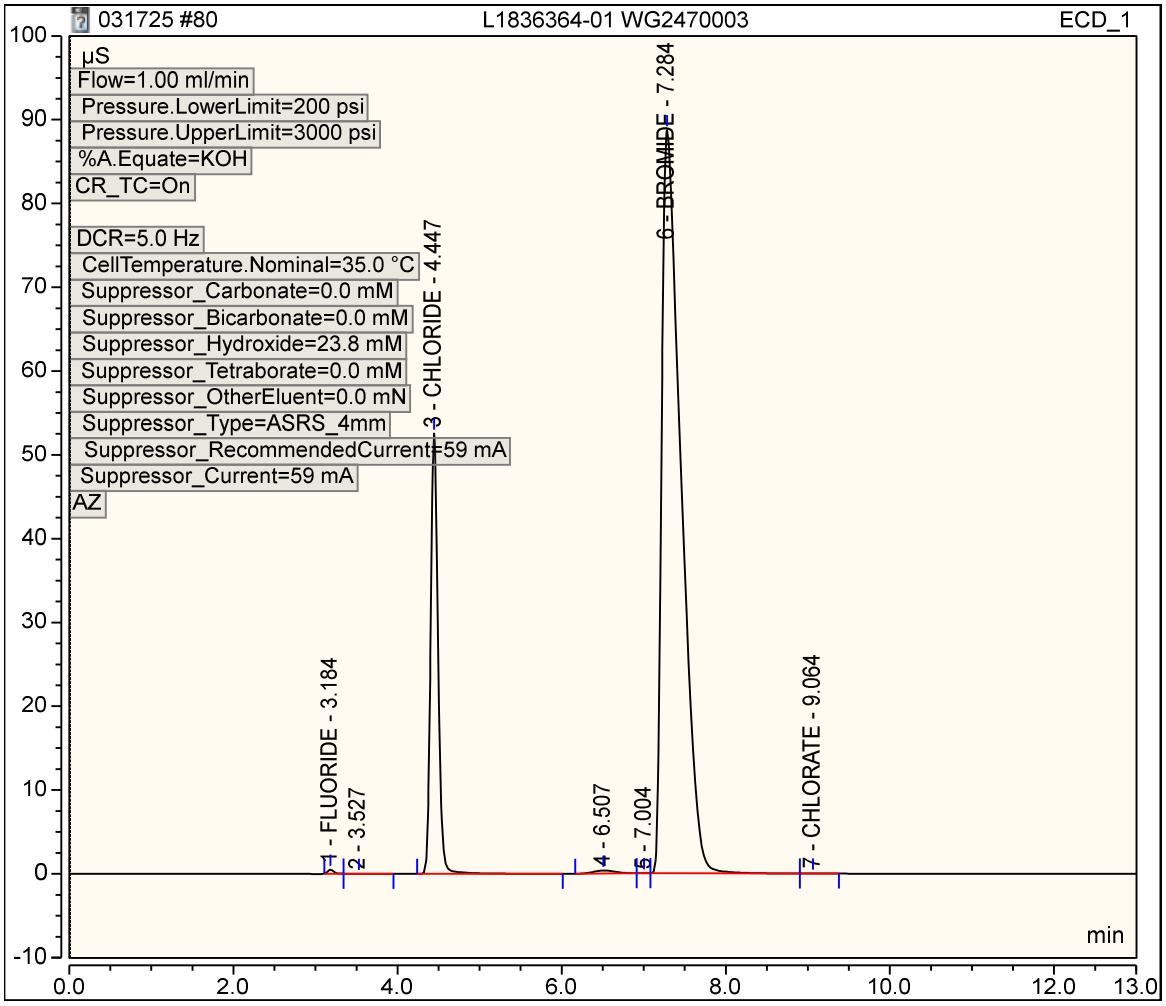
Sample Name:	**L1836364-01 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	**WP: DLH3532 03/18/2025**
Inj. Date/Time:	**03/18/25 06:11**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.043	0.500	0.2543
3	4.45	CHLORIDE	BMB	5.444	52.552	43.4066
5	7.00	BROMIDE	BMB	0.001	0.016	0.5593
6	7.28	SULFATE	BMB^	24.201	88.709	273.4500
7	9.06	CHLORATE	BMB	0.001	0.005	0.0612
		TOTAL:		29.69	141.78	317.73



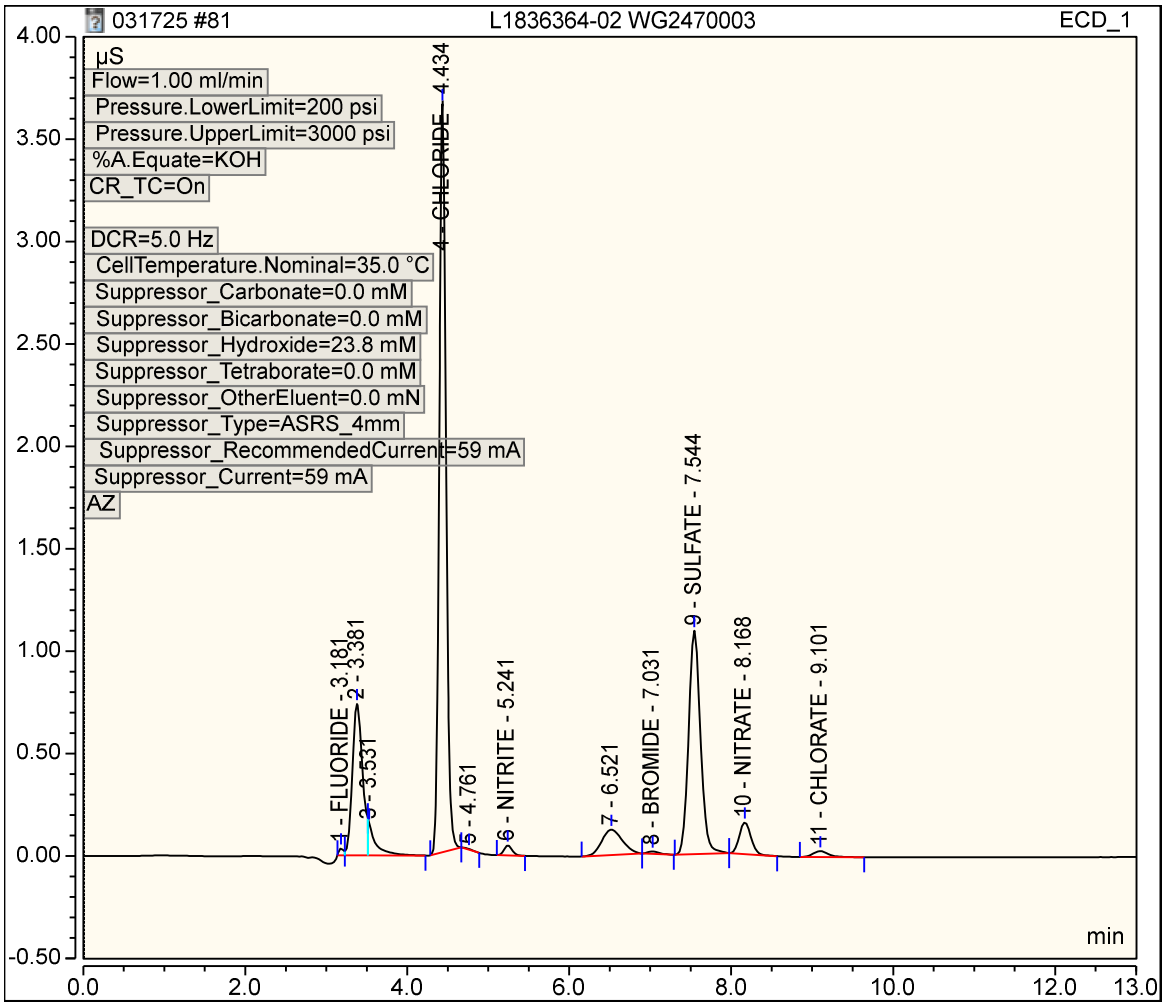
Sample Name:	**L1836364-01 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 06:11**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.043	0.500	0.2543
3	4.45	CHLORIDE	BMB	5.444	52.552	43.4066
6	7.28	BROMIDE	BMB	24.201	88.709	464.5372
7	9.06	CHLORATE	BMB	0.001	0.005	0.0612
		TOTAL:		29.69	141.77	508.26



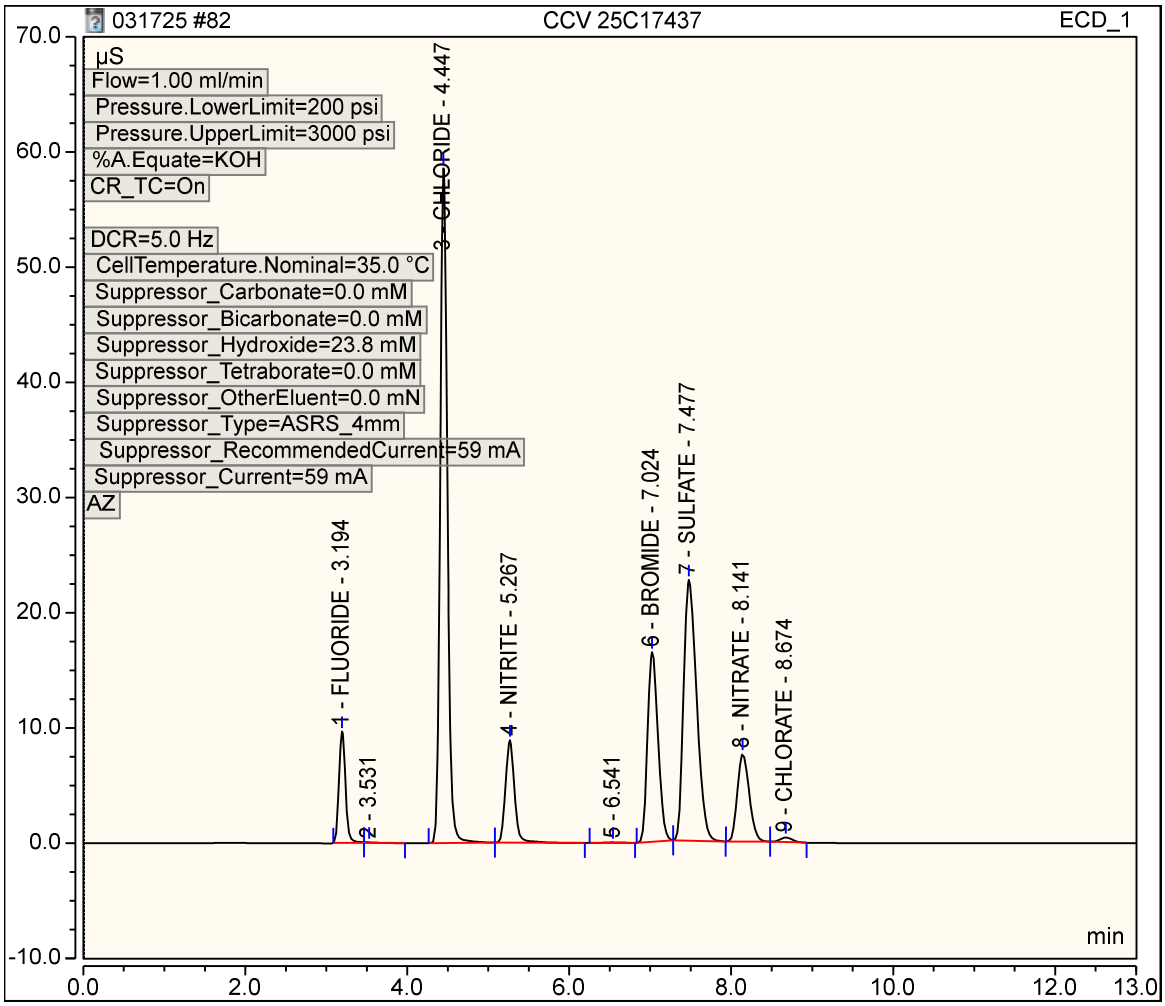
Sample Name:	**L1836364-02 WG2470003**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 06:27**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.18	FLUORIDE	BM	0.002	0.034	0.4446
4	4.43	CHLORIDE	BMB	0.353	3.653	29.7838
6	5.24	NITRITE	BMB	0.006	0.049	0.6751
8	7.03	BROMIDE	BMB	0.002	0.013	5.6837
9	7.54	SULFATE	BMB	0.186	1.091	23.0059
10	8.17	NITRATE	BMB	0.026	0.155	1.5551
11	9.10	CHLORATE	BMB	0.007	0.029	2.3882
		TOTAL:		0.58	5.02	63.54



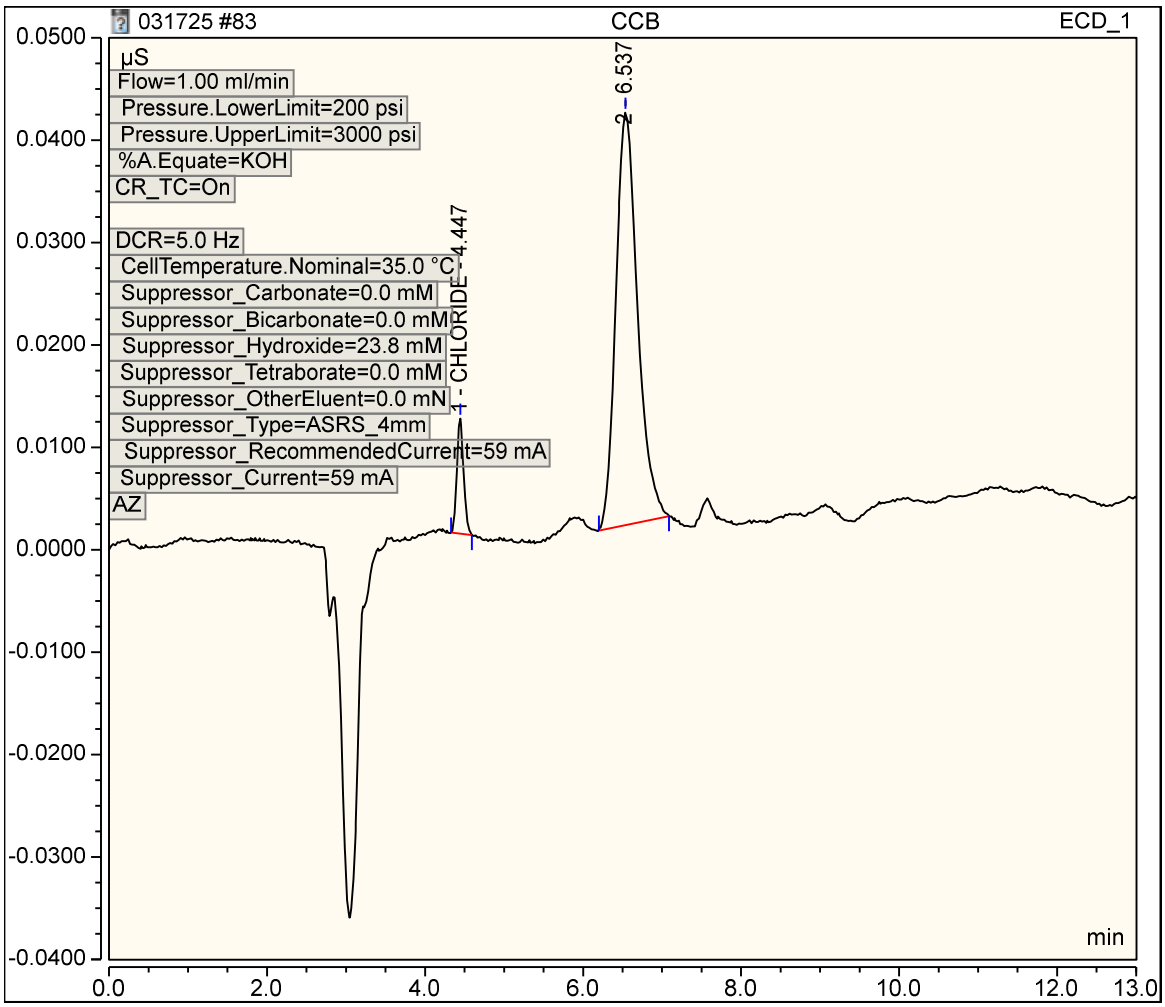
Sample Name:	**CCV 25C17437**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 06:43**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	3.19	FLUORIDE	BM	0.896	9.653	4.6532
3	4.45	CHLORIDE	BMB	6.055	58.560	48.2574
4	5.27	NITRITE	BMB	1.150	8.893	4.7703
6	7.02	BROMIDE	BMB	2.455	16.447	47.6102
7	7.48	SULFATE	BMB	4.226	22.633	47.9187
8	8.14	NITRATE	BMB	1.296	7.600	4.6228
9	8.67	CHLORATE	BMB	0.071	0.403	2.3080
		TOTAL:		16.15	124.19	160.14



Sample Name:	**CCB**	*Inj. Vol.:*	**25.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**IC10CAL012725**	*Operator:*	**WETLABIC8**
		Comments:	
Inj. Date/Time:	**03/18/25 06:59**	*Run Time:*	**13.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	4.45	CHLORIDE	BMB	0.001	0.011	0.1861
		TOTAL:		0.00	0.01	0.19



ANION SS WetChem Prep Benchsheet

Batch: WG2470003

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835499	WG2469569	BJM688	PREPREPBAL3	15-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25
L1835904	WG2469565	BJM688	PREPREPBAL4	14-MAR-25
L1836309	WG2469547	BJM688	PREPREPBAL4	14-MAR-25
L1836333	WG2469598	BJM688	PREPREPBAL2	15-MAR-25
L1836364	WG2469565	BJM688	PREPREPBAL4	14-MAR-25

Analyst: SAR4253 **Analyst 2:** NA___ **Analyst 3:** NA___ **Prep Start Date/Time:** 03/17/25 19:35-03/18/25 10:07 **Prep End Date/Time:** 03/17/25 22:20-03/18/25 10:07
SOP: 0155 **Method:** 9056 **Balance ID:** WETBAL2 **CentrifugeTube Lot#:** E2402376 **Eluent ID:** 24191398014 **Syringe Lot#:** 241125 **0.45 Filter Lot#:** 00360227-6
0.2 Filter Lot#: NA **1mL Auto Pipette SN:** UU08330 **1mL Auto Pipette Tip Lot#:** 25010027 **5mL Pipette Lot#:** NA **10mL Pipette Lot#:** NA
Dilution Tube Lot#: LV24080204-5030-MI **Chloride Strip Lot#:** A5009A **Sulfate Strip Lot#:** 012K415-KK **Phosphate Strip Lot#:** NA **NO3/NO2 Strip Lot#:** 431303
IC Cap/Vial Lot#: 3250-18348/LV24071515-5031-IM **Tongue Depressor:** NA **pH strip Lot #:** 10BDH47241

Anion Standard (LCS/LCSD): 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26 **Chlorate (LCS/LCSD):** 25C16364 Amt. Used: 0.25 mL Exp. Date:04/12/25
Anion Standard (MS/MSD): 25B25269 Amt. Used: 1 mL Exp. Date:02/25/26 **Chlorate (MS/MSD):** 25C16364 Amt. Used: 0.25 mL Exp. Date:04/12/25
Sand: 25B03887 Amt. Used: 5 g Exp. Date:02/03/26

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Dilution Factor	Prep Factor	Prep Ratio	Chloride Strip Dil.	NO2/NO3 Strip Dil.	Sulfate Strip Dil.	Sample pH	pH Dilution	Review Analyst	Review Date
BLANK	5	50	1	10	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
LCS	5	50	1	10	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
DUP(L1835560-06)	5	50	1	10	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
DUP(L1835568-08)	5	50	1	10	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
MS(L1835568-08)	5	50	1	10	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
MSD(L1835568-08)	5	50	1	10	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
1. L1835499-01	5.13	50	1	9.75	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
2. L1835560-06	5.21	50	1	9.6	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
3. L1835560-07	4.85	50	1	10.31	1.03	1x	1x	1x	10	10x	DLH3532	03/18/25 10:09:07
4. L1835560-08	5.06	50	1	9.88	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
5. L1835568-01	5.08	50	1	9.84	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
6. L1835568-02	5.03	50	1	9.94	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
7. L1835568-03	5.21	50	1	9.6	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
8. L1835568-04	5.01	50	1	9.98	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
9. L1835568-05	5.17	50	1	9.67	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
10. L1835568-06	5.17	50	1	9.67	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
11. L1835568-07	5.07	50	1	9.86	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
12. L1835568-08	5.05	50	1	9.9	1	1x	1x	1x	12	100x	DLH3532	03/18/25 10:09:07
13. L1835568-09	5.11	50	1	9.78	1	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
14. L1835904-01	4.99	50	1	10.02	1	1x	10x	1x	7	1x	DLH3532	03/18/25 10:09:07
15. L1836309-01	5.03	50	1	9.94	1	1x	1x	5x	7	1x	DLH3532	03/18/25 10:09:07
16. L1836333-01	4.79	50	1	10.44	1.04	1x	1x	1x	7	1x	DLH3532	03/18/25 10:09:07
17. L1836364-01	5	50	1	10	1	1x	1x	10x	7	1x	DLH3532	03/18/25 10:09:07
18. L1836364-02	4.98	50	1	10.04	1	1x	1x	1x	10	10x	DLH3532	03/18/25 10:09:07

Comments:
IC 10 031725

Reviewed By:DLH3532 on 03/18/25 10:09:07

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Coef1	First Order Coefficient.
Coef2	Second Order Coefficient.
Corr.	Correlation Coefficient.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Incpt	Intercept.
Mass	Mass of parameter.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RSD	Relative Standard Deviation.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Wavelength	Wavelength of parameter.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

GLOSSARY OF TERMS

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

I

Company Name/Address:	Billing Information:	Pres Chk
Haley & Aldrich - Phoenix 400 E. Van Buren St #545 Phoenix, AZ 85004	Attn: Accounts Payable 70 Blanchard Rd Suite 204 Burlington, MA 01803	
Report to: Samantha Kaney 602-760-2441	Email To: SKaney@haleyaldrich.com	
Project Description: ESI - Env. Sampling	City/State Collected: Missouri	Please Circle: PT MT (CT) ET
Phone:	Client Project # 0213103-000	Lab Project #
Collected by (print): S. Kaney	Site/Facility ID #	P.O. #
Collected by (signature):	Rush? (Lab MUST Be Notified) ___ Same Day X Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day	Quote #
Immediately Packed on Ice N ___ Y X	Date Results Needed	

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Hexavalent Chromium SW7196A	Hexavalent Chromium EPA 7199	Mercury - EPA SW7471B	Total Metals - EPA SW6010B	% Moisture - SW 3550C	Rad 226 & 228 - EPA 903/904	Rad 226 & 228 - HASL 300 Ga01	Sulfate Anions - EPA SW-846 9056A	Remarks	Sample # (lab only)
Clinton-School-Ditch-I-So	Comp	SS	0-1	3/11/25	0810	3	X	X	X	X	X	X	X	X		-01
18-901-I-So	Comp	SS	0-1	3/11/25	0900	3	X	X	X	X	X	X	X	X		-02
K-18-I-So	Comp	SS	0-1	3/11/25	0940	3	X	X	X	X	X	X	X	X		-03
P-230-I-So	Comp	SS	0-1	3/11/25	1025	3	X	X	X	X	X	X	X	X		-04
P-350-I-So	Comp	SS	0-1	3/11/25	1055	3	X	X	X	X	X	X	X	X		-05
NHR-I-So	Comp	SS	0-1	3/11/25	1135	3	X	X	X	X	X	X	X	X		-06
Dup-So-031125	Comp	SS	0-1	3/11/25	1700	3	X	X	X	X	X	X	X	X		-07
Fly Ash-I-So	Grab	SS*	0-1	3/11/25	1508	3	X	X	X	X	X	X	X	X		-08

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # LF635506
A035

Acctnum:
Template:
Prelogin:
PM:
PB:
Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: * fly ash *
- no msh on rad -

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx X Courier __ _____

Tracking # 443924389583

Sample Receipt Checklist

COC Seal Present/Intact:	NP	X Y N
COC Signed/Accurate:		X Y N
Bottles arrive intact:		X Y N
Correct bottles used:		X Y N
Sufficient volume sent:		X Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		X Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	3/11/25	1735	FedEx
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Jeffrey

Trip Blank Received: Yes / (No) HCL / MeoH TBR
—

Temp: 6.4 °C Bottles Received: 27
Is to 4-1.9

If preservation required by Login: Date/Time
0500

Date: 3.12.25 Time: 0900

Hold:

Condition: (NCF) / OK

3/13 L1835568/L1835569 HALALDPAZ

R5

Time estimate: oh **Time spent:** oh

Members

Hailey Robertson (responsible) DR Daphne Richards

Due on *17 March 2025 8:00 AM* for target *Done*

- [ ] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Custody seal not intact
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [x] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Hailey Robertson *13 March 2025 10:17 AM*

Received ID: MONTROSE-LAKE-I-SO (3/11/25 @ 1330) not listed on the COC.

Daphne Richards *13 March 2025 2:26 PM*

This sample is on L1835192

Hailey Robertson *13 March 2025 2:28 PM*

The samples from L1835192 are waters. I received soil samples.

Daphne Richards *13 March 2025 2:52 PM*

Add sample to L1835568

Hailey Robertson *13 March 2025 3:00 PM*

Added.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Haley & Aldrich - Phoenix
400 E. Van Buren St #545
Phoenix, AZ 85004

Billing Information:
Attn: Accounts Payable
70 Blanchard Rd Suite 204
Burlington, MA 01803

Pres Chk

Report to: Samantha Kaney 602-760-2441

Email To: skaney@haleyaldrich.com

Project Description: ESI - Env. Sampling

City/State Collected: Missouri

Please Circle: PT MT (CT) ET

Phone:

Client Project # 0213103-000

Lab Project #

Collected by (print): S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1855209
A035

Acctnum:
Template:
Prelogin:
PM:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Hexavalent Chromium SW7196A	Hexavalent Chromium EPA 7199	Mercury - EPA SW7471B	Total Metals - EPA SW6010B	% Moisture - SW 3550C	Rad 226 & 228 - EPA 903.1/904	Rad 226 & 228 - HASL 300 Ga01	Sulfate Anions - EPA SW-846 9056A	Remarks	Sample # (lab only)
Clinton-School-Ditch-I-So	Comp	SS	0-1	3/11/25	0810	3	X	X	X	X	X	X	X	X		-01
18-901-I-So	Comp	SS	0-1	3/11/25	0900	3	X	X	X	X	X	X	X	X		-02
K-18-I-So	Comp	SS	0-1	3/11/25	0940	3	X	X	X	X	X	X	X	X		-03
P-230-I-So	Comp	SS	0-1	3/11/25	1025	3	X	X	X	X	X	X	X	X		-04
P-350-I-So	Comp	SS	0-1	3/11/25	1055	3	X	X	X	X	X	X	X	X		-05
NTR-I-So	Comp	SS	0-1	3/11/25	1135	3	X	X	X	X	X	X	X	X		-06
Dup-So-031125	Comp	SS	0-1	3/11/25	1700	3	X	X	X	X	X	X	X	X	—	-07
Fly Ash-I-So	Grab	SS*	0-1	3/11/25	1508	3	X	X	X	X	X	X	X	X		-08

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: * fly ash *
-no msh on rad-

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx X Courier _____

Tracking # 449243898583

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	3/11/25	1735	FedEx	—	0500
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: CG 4°C Bottles Received: 27	
				1.5 to 4 = 1.4	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3.12.25 Time: 0900	Hold: Condition: NCF / OK

3/13 L1835568/L1835569 HALALDPAZ

R5

Time estimate: oh **Time spent:** oh

Members

Hailey Robertson (responsible) DR Daphne Richards

Due on *17 March 2025 8:00 AM* for target *Done*

- [ ] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Custody seal not intact
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [x] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Hailey Robertson *13 March 2025 10:17 AM*

Received ID: MONTROSE-LAKE-I-SO (3/11/25 @ 1330) not listed on the COC.

Daphne Richards *13 March 2025 2:26 PM*

This sample is on L1835192

Hailey Robertson *13 March 2025 2:28 PM*

The samples from L1835192 are waters. I received soil samples.

Daphne Richards *13 March 2025 2:52 PM*

Add sample to L1835568

Hailey Robertson *13 March 2025 3:00 PM*

Added.

ANALYTICAL REPORT

April 04, 2025

Revised Report

1 Cp
2 Tc
3 Ss
4 Cn
5 Su
6 Gl
7 Al
8 Sc

Haley & Aldrich-Phoenix, AZ

Sample Delivery Group:	L1837825
Samples Received:	03/11/2025
Project Number:	0213103.000
Description:	

Report To: Samantha Kaney
400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Entire Report Reviewed By: Daphne R Richards

Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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L1837825-04 03/13/25 08:01 LOGBAL3 15

L1837825-05 03/13/25 08:01 LOGBAL3 16

L1837825-06 03/13/25 08:01 LOGBAL3 17

L1837825-07 03/13/25 08:01 LOGBAL3 18

L1837825-08 03/13/25 08:01 LOGBAL3 19

L1837825-09 03/13/25 08:01 LOGBAL3 20

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BLANK(R4186069-1) WG2467875 03/13/25 08:29 LOGBAL3 24

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MONTROSE_SCHOOL_DITCH_I_SO L1837825-01 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 10:50 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467875	1	03/13/25 08:16	03/13/25 08:29	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2475887	10	03/25/25 11:00	03/26/25 21:39	ARV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2472627	5	03/20/25 00:21	03/21/25 08:42	SJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473633	1	03/21/25 09:18	03/21/25 12:28	DJS	Mt. Juliet, TN

MONTROSE_SCHOOL_DRAINS_I_SO L1837825-02 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 11:20 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2475887	10	03/25/25 11:00	03/26/25 21:42	ARV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2472627	1	03/20/25 00:21	03/20/25 07:25	EKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473633	1	03/21/25 09:18	03/21/25 12:36	DJS	Mt. Juliet, TN

650_851_I_SO L1837825-03 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 11:55 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2475887	10	03/25/25 11:00	03/26/25 21:43	ARV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2472627	1	03/20/25 00:21	03/20/25 07:36	EKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473633	1	03/21/25 09:18	03/21/25 12:38	DJS	Mt. Juliet, TN

601_T_I_SO L1837825-04 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 12:35 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2475887	10	03/25/25 11:00	03/26/25 21:44	ARV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2472627	1	03/20/25 00:21	03/20/25 07:46	EKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473633	1	03/21/25 09:18	03/21/25 12:39	DJS	Mt. Juliet, TN

250_651_I_SO L1837825-05 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 13:10 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2475887	10	03/25/25 11:00	03/26/25 21:44	ARV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2472627	1	03/20/25 00:21	03/20/25 08:28	EKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473633	1	03/21/25 09:18	03/21/25 12:44	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_DITCH_I_SO L1837825-06 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 13:50 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2475887	10	03/25/25 11:00	03/26/25 21:44	ARV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2472627	1	03/20/25 00:21	03/20/25 08:39	EKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473633	1	03/21/25 09:18	03/21/25 12:46	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_DRAINS_I_SO L1837825-07 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 14:15 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2475887	10	03/25/25 11:00	03/26/25 21:45	ARV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2472627	1	03/20/25 00:21	03/20/25 08:49	EKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2472738	1	03/20/25 07:44	03/20/25 13:02	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO L1837825-08 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 14:45 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2475887	10	03/25/25 11:00	03/26/25 21:45	ARV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2472627	1	03/20/25 00:21	03/20/25 09:00	EKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473633	1	03/21/25 09:18	03/21/25 12:48	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_WPLAYGROUND_I_SO L1837825-09 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 15:10 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2475887	10	03/25/25 11:00	03/26/25 21:45	ARV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2472627	1	03/20/25 00:21	03/20/25 10:37	EKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473633	1	03/21/25 09:18	03/21/25 12:49	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_TRACK_I_SO L1837825-10 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 15:35 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2475887	10	03/25/25 11:00	03/26/25 21:46	ARV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2472627	1	03/20/25 00:21	03/20/25 09:21	EKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473633	1	03/21/25 09:18	03/21/25 12:51	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_DUP_I_SO L1837825-11 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 17:00 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467877	1	03/13/25 07:54	03/13/25 08:01	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2475887	10	03/25/25 11:00	03/26/25 21:46	ARV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2472627	1	03/20/25 00:21	03/20/25 09:31	EKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473633	1	03/21/25 09:18	03/21/25 12:53	DJS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

Report Revision History

Level II Report - Version 1: 03/28/25 11:01
Level IV Report - Version 2: 03/28/25 11:10
Level II Report - Version 3: 04/04/25 08:46

Project Narrative

Selenium added

2540 G-2011 Total Solids

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1837825-01	**SDG:**	L1837825
Client Sample ID:	MONTROSE_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	14	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:16
Analytical Batch:	WG2467875	**Analysis Date/Time:**	03/13/25 08:29
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.917 g
Total Solids (%):	70.0	**Final Wt/Vol:**	7.328 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	70.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1837825-02	**SDG:**	L1837825
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	14	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	10.787 g
Total Solids (%):	78.5	**Final Wt/Vol:**	8.74 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	78.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
650_851_I_SO

Lab Sample ID:	L1837825-03	**SDG:**	L1837825
Client Sample ID:	650_851_I_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	15	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	9.567 g
Total Solids (%):	73.0	**Final Wt/Vol:**	7.329 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	73.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1837825-04	**SDG:**	L1837825
Client Sample ID:	601_T_I_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	16	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	9.966 g
Total Solids (%):	71.9	**Final Wt/Vol:**	7.523 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	71.9	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
250_651_I_SO

Lab Sample ID:	L1837825-05	**SDG:**	L1837825
Client Sample ID:	250_651_I_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	17	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	10.971 g
Total Solids (%):	74.1	**Final Wt/Vol:**	8.458 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	74.1	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1837825-06	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	18	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.82 g
Total Solids (%):	71.5	**Final Wt/Vol:**	7.389 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	71.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1837825-07	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	19	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.392 g
Total Solids (%):	74.8	**Final Wt/Vol:**	7.349 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	74.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAY GROUND_I_SO

Lab Sample ID:	L1837825-08	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	20	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.311 g
Total Solids (%):	75.7	**Final Wt/Vol:**	7.358 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	75.7	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_I_SO

Lab Sample ID:	L1837825-09	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	21	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.649 g
Total Solids (%):	72.1	**Final Wt/Vol:**	8.761 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	72.1	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_I_SO

Lab Sample ID:	L1837825-10	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_TRACK_I_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	22	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	11.7 g
Total Solids (%):	71.2	**Final Wt/Vol:**	8.699 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	71.2	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1837825-11	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_DUP_I_SO	**Collected Date/Time:**	03/10/25 17:00
Lab File ID:	23	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:54
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	11.159 g
Total Solids (%):	75.5	**Final Wt/Vol:**	8.735 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	75.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186056-1	**SDG:**	L1837825
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:53
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.283 g
Total Solids (%):		**Final Wt/Vol:**	1.281 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.00200	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186069-1	**SDG:**	L1837825
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:15
Analytical Batch:	WG2467875	**Analysis Date/Time:**	03/13/25 08:29
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.307 g
Total Solids (%):		**Final Wt/Vol:**	1.308 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.00100	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186056-2	**SDG:**	L1837825
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:53
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.289 g
Total Solids (%):		**Final Wt/Vol:**	6.29 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186056-3	**SDG:**	L1837825
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	02	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:53
Analytical Batch:	WG2467877	**Analysis Date/Time:**	03/13/25 08:01
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	12.033 g
Total Solids (%):	71.2	**Final Wt/Vol:**	9.083 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	72.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186069-3	**SDG:**	L1837825
Client Sample ID:	DUP	**Collected Date/Time:**	02/21/25 08:45
Lab File ID:	02	**Received Date/Time:**	02/24/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:16
Analytical Batch:	WG2467875	**Analysis Date/Time:**	03/13/25 08:29
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	5.375 g
Total Solids (%):	77.7	**Final Wt/Vol:**	4.439 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	77.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186069-2	**SDG:**	L1837825
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:15
Analytical Batch:	WG2467875	**Analysis Date/Time:**	03/13/25 08:29
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.297 g
Total Solids (%):		**Final Wt/Vol:**	6.3 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SDG:	L1837825	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2467877

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.00200	

SDG:	L1837825	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2467875

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.00100	

DUP Sample / File ID:	R4186056-3 / 02	**SDG:**	L1837825
OS Sample / File ID:	L1834645-10 / 12	**Analytical Batch:**	WG2467877
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	71.2	72.5	1.86	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4186069-3 / 02	**SDG:**	L1837825
OS Sample / File ID:	L1829230-03 / 06	**Analytical Batch:**	WG2467875
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	77.7	77.0	0.993	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1837825-02,03,04,05,06,07,08,09,10,11

SAMPLE NO.:
R4186056-2

LCS Sample / File ID:	R4186056-2 / 03	**SDG:**	L1837825
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467877
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1837825-01

SAMPLE NO.:
R4186069-2

LCS Sample / File ID:	R4186069-2 / 03	**SDG:**	L1837825
LCSD Sample / File ID:		**Analytical Batch:**	WG2467875
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1837825-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 2540 G-2011

Matrix: Solid **Prep Method:** SM 2540 G

Analyte	CAS	Wavelength	Mass	MDL	RDL
				%	%
Total Solids	TSOLIDS				

ANALYSIS LOG

SDG:	L1837825	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL3	**Calibration Start Date:**	_____
Analytical Run:	WG2467877	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4186056-1	01	03/13/25 08:01	1	WG2467877
DUP	R4186056-3	02	03/13/25 08:01	1	WG2467877
LCS	R4186056-2	03	03/13/25 08:01	1	WG2467877
OS	L1834645-10	12	03/13/25 08:01		
601_T_I_SO	L1837825-04	16	03/13/25 08:01	1	WG2467877
250_651_I_SO	L1837825-05	17	03/13/25 08:01	1	WG2467877
DAVIS_SCHOOL_DITCH_I_SO	L1837825-06	18	03/13/25 08:01	1	WG2467877
DAVIS_SCHOOL_DRAINS_I_SO	L1837825-07	19	03/13/25 08:01	1	WG2467877
DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	L1837825-08	20	03/13/25 08:01	1	WG2467877
DAVIS_SCHOOL_TRACK_I_SO	L1837825-10	22	03/13/25 08:01	1	WG2467877
DAVIS_SCHOOL_DUP_I_SO	L1837825-11	23	03/13/25 08:01	1	WG2467877
DAVIS_SCHOOL_WPLAYGROUND_I_SO	L1837825-09	21	03/13/25 08:01	1	WG2467877
650_851_I_SO	L1837825-03	15	03/13/25 08:01	1	WG2467877
MONTROSE_SCHOOL_DRAINS_I_SO	L1837825-02	14	03/13/25 08:01	1	WG2467877

ANALYSIS LOG

SDG:	L1837825	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL3	**Calibration Start Date:**	_____
Analytical Run:	WG2467875	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4186069-1	01	03/13/25 08:29	1	WG2467875
DUP	R4186069-3	02	03/13/25 08:29	1	WG2467875
LCS	R4186069-2	03	03/13/25 08:29	1	WG2467875
OS	L1829230-03	06	03/13/25 08:29		
MONTROSE_SCHOOL_DITCH_I_SO	L1837825-01	14	03/13/25 08:29	1	WG2467875

Total Solids WetChem Prep Benchsheet

Batch: WG2467875

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1829230	WG2466939	BJM688	PREPREPBAL4	12-MAR-25
L1834645	WG2466977	BJM688	PREPREPBAL4	03/14/25 13:48:52

Analyst: CMB3616 **Prep Start Date/Time:** 03/13/25 08:15-08:16 **Prep End Date/Time:** 03/13/25 14:53 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL3 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				F1	1.307	1.307	1.308	1.308	0	0.001	99.999						JAV213	03/20/25 13:37:38
LCS				F2	1.294	11.297	6.298	6.300	0.002	50.045	49.955	100.09	99.91				JAV213	03/20/25 13:37:38
DUP(L1829230-03)				F3	1.309	5.375	4.440	4.439	0.001	76.9798	23.0202			0.99	3.39		JAV213	03/20/25 13:37:38
1. L1829230-01	SS	NC	02/21/25 08:44	F4	1.303	9.677	8.296	8.301	0.005	83.5682	16.4318					0312PP4	JAV213	03/20/25 13:37:38
2. L1829230-02	SS	NC	02/21/25 08:50	F5	1.305	9.417	7.472	7.475	0.003	76.0602	23.9398					0312PP4	JAV213	03/20/25 13:37:38
3. L1829230-03	SS	NC	02/21/25 08:45	F6	1.299	5.411	4.495	4.496	0.001	77.7481	22.2519					0312PP4	JAV213	03/20/25 13:37:38
4. L1829230-04	SS	NC	02/21/25 08:47	F7	1.300	11.248	9.563	9.568	0.005	83.1122	16.8878					0312PP4	JAV213	03/20/25 13:37:38
5. L1829230-05	SS	NC	02/21/25 08:50	F8	1.297	8.644	6.690	6.694	0.004	73.4586	26.5414					0312PP4	JAV213	03/20/25 13:37:38
6. L1829230-21	SS	NC	02/21/25 10:55	F9	1.302	8.666	7.307	7.310	0.003	81.5861	18.4139					0312PP4	JAV213	03/20/25 13:37:38
7. L1829230-22	SS	NC	02/21/25 10:40	F10	1.286	9.223	7.308	7.311	0.003	75.9103	24.0897					0312PP4	JAV213	03/20/25 13:37:38
8. L1829230-23	SS	NC	02/21/25 10:45	F11	1.286	8.892	6.767	6.767	0	72.0615	27.9385					0312PP4	JAV213	03/20/25 13:37:38
9. L1829230-24	SS	NC	02/21/25 10:44	F12	1.301	9.669	7.848	7.848	0	78.2385	21.7615					0312PP4	JAV213	03/20/25 13:37:38
10. L1834645-01	SS	MO	03/10/25 10:50	F13	1.295	9.917	7.321	7.328	0.007	69.9722	30.0278					0312PP4	JAV213	03/20/25 13:37:38
11. L1837825-01	SS	MO	03/10/25 10:50	F13	1.295	9.917	7.321	7.328	0.007	69.9722	30.0278					0312PP4	JAV213	03/20/25 13:37:38

Comments:
L1837825-01 Time Added: 03/19/25 15:13:15

Reviewed By:JAV213 on 03/20/25 13:37:38

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/13/25 08:29:33	104	104	03/13/25 13:07:59	104	104	BLANK, LCS, DUP(L1829230-03), L1829230-01, L1837825-01, L1834645-01, L1829230-24, L1829230-23, L1829230-22, L1829230-21, L1829230-05, L1829230-04, L1829230-03, L1829230-02
2	Oven-1hr	03/13/25 13:12:57	104	104	03/13/25 14:49:35	104	104	BLANK, LCS, DUP(L1829230-03), L1829230-01, L1829230-02, L1829230-03, L1829230-04, L1829230-05, L1829230-21, L1829230-22, L1829230-23, L1829230-24, L1834645-01, L1837825-01

Total Solids WetChem Prep Benchsheet

Batch: WG2467877

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834645	WG2466977	BJM688	PREPREPBAL4	03/14/25 13:48:52

Analyst: CMB3616 **Prep Start Date/Time:** 03/13/25 07:53-07:54 **Prep End Date/Time:** 03/13/25 14:44 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL3 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				D1	1.283	1.283	1.283	1.281	0.002	0.002	99.998						JAV213	03/20/25 13:38:02
LCS				D2	1.286	11.289	6.290	6.290	0	50.025	49.975	100.05	99.95				JAV213	03/20/25 13:38:02
DUP(L1834645-10)				D3	1.287	12.033	9.079	9.083	0.004	72.5479	27.4521			1.86	4.75	0312PP4	JAV213	03/20/25 13:38:02
1. L1834645-02	SS	MO	03/10/25 11:20	D4	1.288	10.787	8.739	8.740	0.001	78.4504	21.5496					0312PP4	JAV213	03/20/25 13:38:02
2. L1834645-03	SS	MO	03/10/25 11:55	D5	1.278	9.567	7.327	7.329	0.002	73.0004	26.9996					0312PP4	JAV213	03/20/25 13:38:02
3. L1834645-04	SS	MO	03/10/25 12:35	D6	1.278	9.966	7.521	7.523	0.002	71.8808	28.1192					0312PP4	JAV213	03/20/25 13:38:02
4. L1834645-05	SS	MO	03/10/25 13:10	D7	1.278	10.971	8.459	8.458	0.001	74.0741	25.9259					0312PP4	JAV213	03/20/25 13:38:02
5. L1834645-06	SS	MO	03/10/25 13:50	D8	1.283	9.820	7.387	7.389	0.002	71.524	28.476					0312PP4	JAV213	03/20/25 13:38:02
6. L1834645-07	SS	MO	03/10/25 14:15	D9	1.277	9.392	7.351	7.349	0.002	74.8244	25.1756					0312PP4	JAV213	03/20/25 13:38:02
7. L1834645-08	SS	MO	03/10/25 14:45	D10	1.283	9.311	7.359	7.358	0.001	75.6726	24.3274					0312PP4	JAV213	03/20/25 13:38:02
8. L1834645-09	SS	MO	03/10/25 15:10	D11	1.280	11.649	8.763	8.761	0.002	72.1477	27.8523					0312PP4	JAV213	03/20/25 13:38:02
9. L1834645-10	SS	MO	03/10/25 15:35	D12	1.275	11.700	8.700	8.699	0.001	71.2134	28.7866						JAV213	03/20/25 13:38:02
10. L1834645-11	SS	MO	03/10/25 17:00	D13	1.278	11.159	8.737	8.735	0.002	75.4681	24.5319					0312PP4	JAV213	03/20/25 13:38:02
11. L1837825-02	SS	MO	03/10/25 11:20	D4	1.288	10.787	8.739	8.740	0.001	78.4504	21.5496					0312PP4	JAV213	03/20/25 13:38:02
12. L1837825-03	SS	MO	03/10/25 11:55	D5	1.278	9.567	7.327	7.329	0.002	73.0004	26.9996					0312PP4	JAV213	03/20/25 13:38:02
13. L1837825-04	SS	MO	03/10/25 12:35	D6	1.278	9.966	7.521	7.523	0.002	71.8808	28.1192					0312PP4	JAV213	03/20/25 13:38:02
14. L1837825-05	SS	MO	03/10/25 13:10	D7	1.278	10.971	8.459	8.458	0.001	74.0741	25.9259					0312PP4	JAV213	03/20/25 13:38:02
15. L1837825-06	SS	MO	03/10/25 13:50	D8	1.283	9.820	7.387	7.389	0.002	71.524	28.476					0312PP4	JAV213	03/20/25 13:38:02
16. L1837825-07	SS	MO	03/10/25 14:15	D9	1.277	9.392	7.351	7.349	0.002	74.8244	25.1756					0312PP4	JAV213	03/20/25 13:38:02
17. L1837825-08	SS	MO	03/10/25 14:45	D10	1.283	9.311	7.359	7.358	0.001	75.6726	24.3274					0312PP4	JAV213	03/20/25 13:38:02
18. L1837825-09	SS	MO	03/10/25 15:10	D11	1.280	11.649	8.763	8.761	0.002	72.1477	27.8523					0312PP4	JAV213	03/20/25 13:38:02
19. L1837825-10	SS	MO	03/10/25 15:35	D12	1.275	11.700	8.700	8.699	0.001	71.2134	28.7866						JAV213	03/20/25 13:38:02
20. L1837825-11	SS	MO	03/10/25 17:00	D13	1.278	11.159	8.737	8.735	0.002	75.4681	24.5319					0312PP4	JAV213	03/20/25 13:38:02

Comments:
L1837825-03 Time Added: 03/19/25 15:13:16
L1837825-02 Time Added: 03/19/25 15:13:16
L1837825-04 Time Added: 03/19/25 15:13:16
L1837825-08 Time Added: 03/19/25 15:13:17
L1837825-07 Time Added: 03/19/25 15:13:17
L1837825-06 Time Added: 03/19/25 15:13:17
L1837825-05 Time Added: 03/19/25 15:13:16
L1837825-09 Time Added: 03/19/25 15:13:17
L1837825-11 Time Added: 03/19/25 15:13:18
L1837825-10 Time Added: 03/19/25 15:13:18

Reviewed By:JAV213 on 03/20/25 13:38:02

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/13/25 08:01:59	104	104	03/13/25 13:00:42	104	104	BLANK, LCS, DUP(L1834645-10), L1834645-02, L1837825-11, L1837825-10, L1837825-09, L1837825-08, L1837825-07, L1837825-06, L1837825-05, L1837825-04, L1837825-03, L1837825-02, L1834645-11, L1834645-10, L1834645-09, L1834645-08, L1834645-07, L1834645-06, L1834645-05, L1834645-04, L1834645-03
2	Oven-1hr	03/13/25 13:03:53	104	104	03/13/25 14:40:55	104	104	BLANK, LCS, DUP(L1834645-10), L1834645-02, L1834645-03, L1834645-04, L1834645-05, L1834645-06, L1834645-07, L1834645-08, L1834645-09, L1834645-10, L1834645-11, L1837825-02, L1837825-03, L1837825-04, L1837825-05, L1837825-06, L1837825-07, L1837825-08, L1837825-09, L1837825-10, L1837825-11

3060A/7196A Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1837825-01	**SDG:**	L1837825
Client Sample ID:	MONTROSE_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250326213925	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:39
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.2505 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.7	28.6

Sample Narrative:

Dilution per client request.

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1837825-02	**SDG:**	L1837825
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250326214257	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:42
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.2512 g
Total Solids (%):	78.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		9.57	25.5

Sample Narrative:
Dilution per client request.

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
650_851_I_SO

Lab Sample ID:	L1837825-03	**SDG:**	L1837825
Client Sample ID:	650_851_I_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	20250326214344	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:43
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2559 g
Total Solids (%):	73.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.3	27.4

Sample Narrative:
Dilution per client request.

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1837825-04	**SDG:**	L1837825
Client Sample ID:	601_T_I_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	20250326214402	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:44
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2522 g
Total Solids (%):	71.9	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.4	27.8

Sample Narrative:
Dilution per client request.

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
250_651_I_SO

Lab Sample ID:	L1837825-05	**SDG:**	L1837825
Client Sample ID:	250_651_I_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	20250326214418	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:44
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2504 g
Total Solids (%):	74.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.1	27.0

Sample Narrative:
Dilution per client request.

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1837825-06	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	20250326214433	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:44
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2530 g
Total Solids (%):	71.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.5	28.0

Sample Narrative:
Dilution per client request.

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1837825-07	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	20250326214529	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:45
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2595 g
Total Solids (%):	74.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.0	26.7

Sample Narrative:
Dilution per client request.

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAY GROUND_I_SO

Lab Sample ID:	L1837825-08	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	20250326214544	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:45
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.2554 g
Total Solids (%):	75.7	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		9.92	26.4

Sample Narrative:
Dilution per client request.

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_I_SO

Lab Sample ID:	L1837825-09	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	20250326214558	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:45
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.2540 g
Total Solids (%):	72.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.4	27.7

Sample Narrative:
Dilution per client request.

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_I_SO

Lab Sample ID:	L1837825-10	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_TRACK_I_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	20250326214614	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:46
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2529 g
Total Solids (%):	71.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.5	28.1

Sample Narrative:
Dilution per client request.

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_I_SO

Lab Sample ID:	L1837825-11	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_DUP_I_SO	**Collected Date/Time:**	03/10/25 17:00
Lab File ID:	20250326214652	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:46
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2563 g
Total Solids (%):	75.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	U		9.95	26.5

Sample Narrative:
Dilution per client request.

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4191551-1	**SDG:**	L1837825
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250326213747	**Received Date/Time:**	_____
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:37
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.4560 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4191551-7	**SDG:**	L1837825
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250326214336	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:43
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2534 g
Total Solids (%):	78.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		9.57	25.5

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4191551-8	**SDG:**	L1837825
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	20250326214515	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:45
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2563 g
Total Solids (%):	71.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.5	28.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4191551-2	**SDG:**	L1837825
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250326213754	**Received Date/Time:**	_____
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:37
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5664 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	26.4		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4191551-4	**SDG:**	L1837825
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250326214048	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:40
Dilution Factor:	50	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2513 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	9390		53.7	143

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4191551-5	**SDG:**	L1837825
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250326214217	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:42
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.2503 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	251		10.7	28.6

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4191551-6	**SDG:**	L1837825
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250326214225	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:42
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2588 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	245		10.7	28.6

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4191551-3	**SDG:**	L1837825
Client Sample ID:	PS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250326213942	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/25/25 11:00
Analytical Batch:	WG2475887	**Analysis Date/Time:**	03/26/25 21:39
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2505 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Chromium,Hexavalent	18540-29-9	352		10.7	28.6

CALIBRATION VERIFICATION

SDG:	L1837825	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2475887
Concentration Units:	mg/L		

		ICV				CCV				CCV			
Sample ID:		DR6000-3032625213737				DR6000-3032625214320				DR6000-3032625214500			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20.10	20.94367	104		20.10	20.8233	104		20.10	20.74306	103	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1837825	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2475887
Concentration Units:	mg/L		

		CCV				CCV		
Sample ID:		DR6000-3032625214634				DR6000-3032625214708		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20.10	20.66281	103		20.10	20.66281	103	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1837825	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2475887

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250326213747		20250326214328		20250326214508		20250326214643	
Analyte	mg/kg		mg/L		mg/L		mg/L	
CHROMIUM,HEXAVALENT	U		-0.003000		-0.004000		-0.003000	

SDG:	L1837825	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2475887

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20250326214715	
Analyte	mg/L	
CHROMIUM,HEXAVALENT	-0.004000	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1837825-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4191551-4

MS Sample / File ID:	R4191551-4 / 20250326214048	**SDG:**	L1837825
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2475887
OS Sample / File ID:	L1837825-01 / 20250326213925	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	9150	U	9390		103		50	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1837825-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.:
R4191551-5
R4191551-6

MS Sample / File ID:	R4191551-5 / 20250326214217	**SDG:**	L1837825
MSD Sample / File ID:	R4191551-6 / 20250326214225	**Analytical Batch:**	WG2475887
OS Sample / File ID:	L1837825-01 / 20250326213925	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	286	U	251	245	87.7	85.6	10	75.0 - 125	2.43	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1837825-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4191551-3

PS Sample / File ID:	R4191551-3 / 20250326213942	**SDG:**	L1837825
OS Sample / File ID:	L1837825-01 / 20250326213925	**Analytical Batch:**	WG2475887
Instrument ID:	DR6000-3	**Dilution Factor:**	10
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	357	U	352		98.5		10	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4191551-7 / 20250326214336	**SDG:**	L1837825
OS Sample / File ID:	L1837825-02 / 20250326214257	**Analytical Batch:**	WG2475887
Instrument ID:	DR6000-3	**Dilution Factor:**	10
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4191551-8 / 20250326214515	**SDG:**	L1837825
OS Sample / File ID:	L1837825-06 / 20250326214433	**Analytical Batch:**	WG2475887
Instrument ID:	DR6000-3	**Dilution Factor:**	10
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1837825-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4191551-2

LCS Sample / File ID:	R4191551-2 / 20250326213754	**SDG:**	L1837825
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2475887
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Chromium,Hexavalent	24.0	26.4		110		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1837825-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 3060A/7196A

Matrix: Solid **Prep Method:** 3060A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Chromium,Hexavalent	18540-29-9			0.7510	2

ANALYSIS LOG

SDG:	L1837825	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	_____
Analytical Run:	WG2420318	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0	50	12/19/24 15:00		
CAL	.01	51	12/19/24 15:00		
CAL	.02	52	12/19/24 15:00		
CAL	.05	53	12/19/24 15:00		
CAL	.1	54	12/19/24 15:00		
CAL	.5	55	12/19/24 15:00		
CAL	1	56	12/19/24 15:00		

ANALYSIS LOG

SDG:	L1837825	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	12/19/24 15:00
Analytical Run:	WG2475887	**Calibration End Date:**	12/19/24 15:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-3032625213737	20250326213737	03/26/25 21:37		
BLANK	R4191551-1	20250326213747	03/26/25 21:37	1	WG2475887
LCS	R4191551-2	20250326213754	03/26/25 21:37	1	WG2475887
MONTROSE_SCHOOL_DITCH_I_SO	L1837825-01	20250326213925	03/26/25 21:39	10	WG2475887
PS	R4191551-3	20250326213942	03/26/25 21:39	10	WG2475887
MS	R4191551-4	20250326214048	03/26/25 21:40	50	WG2475887
MS	R4191551-5	20250326214217	03/26/25 21:42	10	WG2475887
MSD	R4191551-6	20250326214225	03/26/25 21:42	10	WG2475887
MONTROSE_SCHOOL_DRAINS_I_SO	L1837825-02	20250326214257	03/26/25 21:42	10	WG2475887
CCV	DR6000-3032625214320	20250326214320	03/26/25 21:43		
CCB	DR6000-3032625214328	20250326214328	03/26/25 21:43		
DUP	R4191551-7	20250326214336	03/26/25 21:43	10	WG2475887
650_851_I_SO	L1837825-03	20250326214344	03/26/25 21:43	10	WG2475887
601_T_I_SO	L1837825-04	20250326214402	03/26/25 21:44	10	WG2475887
250_651_I_SO	L1837825-05	20250326214418	03/26/25 21:44	10	WG2475887
DAVIS_SCHOOL_DITCH_I_SO	L1837825-06	20250326214433	03/26/25 21:44	10	WG2475887
CCV	DR6000-3032625214500	20250326214500	03/26/25 21:45		
CCB	DR6000-3032625214508	20250326214508	03/26/25 21:45		
DUP	R4191551-8	20250326214515	03/26/25 21:45	10	WG2475887
DAVIS_SCHOOL_DRAINS_I_SO	L1837825-07	20250326214529	03/26/25 21:45	10	WG2475887
DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	L1837825-08	20250326214544	03/26/25 21:45	10	WG2475887
DAVIS_SCHOOL_WPLAYGROUND_I_SO	L1837825-09	20250326214558	03/26/25 21:45	10	WG2475887
DAVIS_SCHOOL_TRACK_I_SO	L1837825-10	20250326214614	03/26/25 21:46	10	WG2475887
CCV	DR6000-3032625214634	20250326214634	03/26/25 21:46		
CCB	DR6000-3032625214643	20250326214643	03/26/25 21:46		
DAVIS_SCHOOL_DUP_I_SO	L1837825-11	20250326214652	03/26/25 21:46	10	WG2475887
CCV	DR6000-3032625214708	20250326214708	03/26/25 21:47		
CCB	DR6000-3032625214715	20250326214715	03/26/25 21:47		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1837825	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2475887

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.01	.007658858	76.60	0.02	.018552278	92.80
File ID:		51			52	

INITIAL CALIBRATION RECOVERY

SDG:	L1837825	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2475887

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.05	.047964512	95.90	0.10	.094806218	94.80
File ID:		53			54	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1837825	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2475887

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.50	.529453676	106	1	.984798632	98.50
File ID:		55			56	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1837825	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2475887

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CHROMIUM,HEXAVALENT	0	5	0.999332			1.089342	-0.003235	

Calibration Type

0 = Linear Regression

Weightage

5 = None

Created: 12/19/24 15:26

Instrument: DR6000-3

Calibration Date: 12/19/24 15:00

Program Name: CR6 SS 12/19/2024 ARV4164

Wavelength: 540.0 nm

Analytical Method: 7196A SS

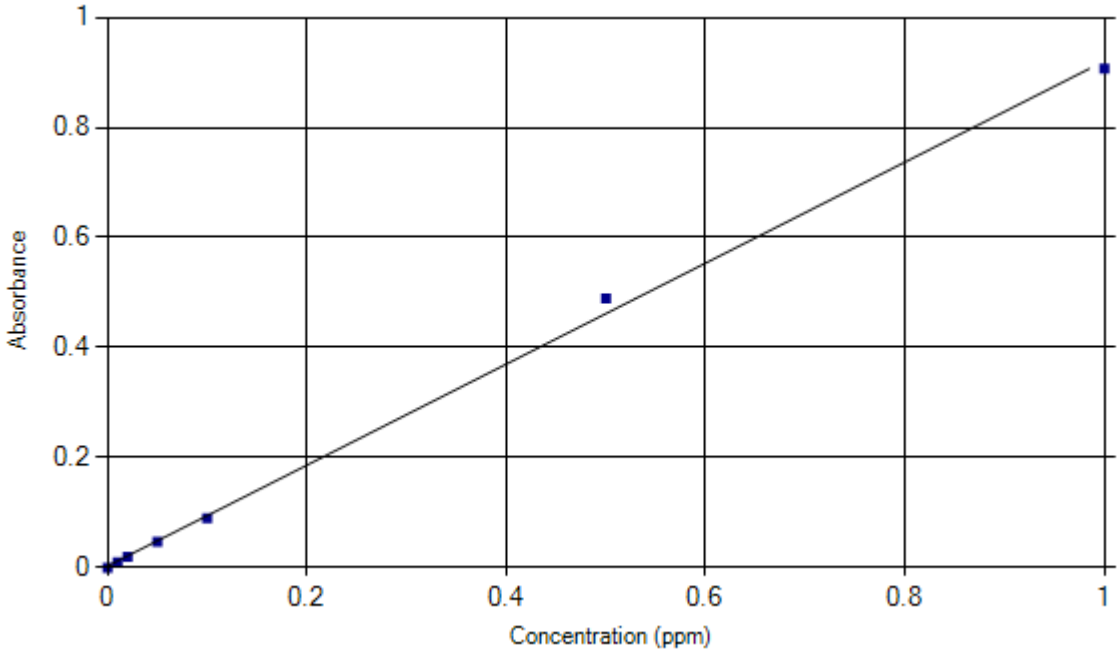
Analyte: CR6

Calibration Equation: Concentration = -0.003234562 + 1.089342 * Absorbance

Standard ID: 24L19163

ppm	Absorbance
0	0
0.01	0.01
0.02	0.02
0.05	0.047
0.1	0.090
0.5	0.489
1	0.907

R = 0.9993323



Instrument: DR6000-3

Created: 03/26/25 21:52

Serial Number: 1894098

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/26/25 21:37:37	CR6	CR6 SS 12/19/2024 ARV4164	ICV	1	0.522	mg/L	0.482
03/26/25 21:37:47	CR6	CR6 SS 12/19/2024 ARV4164	BLANK WG2475887	1	-0.003	mg/L	0.000
03/26/25 21:37:54	CR6	CR6 SS 12/19/2024 ARV4164	LCS WG2475887	1	0.677	mg/L	0.624
03/26/25 21:39:25	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-01 WG2475887	1	0.004	mg/L	0.006
03/26/25 21:39:34	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-01-SB WG2475887	1	0.000	mg/L	0.003
03/26/25 21:39:42	CR6	CR6 SS 12/19/2024 ARV4164	PS L1837825-01 WG2475887	1	0.617	mg/L	0.569
03/26/25 21:40:48	CR6	CR6 SS 12/19/2024 ARV4164	IMS L1837825-01 WG2475887	50.000	0.33006	mg/L	0.306
03/26/25 21:42:17	CR6	CR6 SS 12/19/2024 ARV4164	MS L1837825-01 WG2475887	1	0.439	mg/L	0.406
03/26/25 21:42:25	CR6	CR6 SS 12/19/2024 ARV4164	MSD L1837825-01 WG2475887	1	0.443	mg/L	0.410
03/26/25 21:42:57	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-02 WG2475887	1	-0.008	mg/L	-0.004
03/26/25 21:43:05	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-02-SB WG2475887	1	-0.008	mg/L	-0.005
03/26/25 21:43:20	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.519	mg/L	0.479
03/26/25 21:43:28	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.003	mg/L	0.000
03/26/25 21:43:36	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1837825-02 WG2475887	1	-0.006	mg/L	-0.003
03/26/25 21:43:44	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-03 WG2475887	1	-0.007	mg/L	-0.004
03/26/25 21:43:52	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-03-SB WG2475887	1	-0.008	mg/L	-0.005
03/26/25 21:44:02	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-04 WG2475887	1	-0.001	mg/L	0.002
03/26/25 21:44:11	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-04-SB WG2475887	1	-0.009	mg/L	-0.005
03/26/25 21:44:18	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-05 WG2475887	1	-0.007	mg/L	-0.004
03/26/25 21:44:26	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-05-SB WG2475887	1	-0.009	mg/L	-0.005
03/26/25 21:44:33	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-06 WG2475887	1	-0.006	mg/L	-0.003
03/26/25 21:44:41	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-06-SB WG2475887	1	-0.008	mg/L	-0.004
03/26/25 21:45:00	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.517	mg/L	0.478
03/26/25 21:45:08	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.004	mg/L	-0.001
03/26/25 21:45:15	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1837825-06 WG2475887	1	-0.002	mg/L	0.001
03/26/25 21:45:29	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-07 WG2475887	1	-0.006	mg/L	-0.003
03/26/25 21:45:37	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-07-SB WG2475887	1	-0.008	mg/L	-0.005
03/26/25 21:45:44	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-08 WG2475887	1	-0.004	mg/L	-0.001
03/26/25 21:45:51	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-08-SB WG2475887	1	-0.010	mg/L	-0.006
03/26/25 21:45:58	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-09 WG2475887	1	-0.005	mg/L	-0.002
03/26/25 21:46:05	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-09-SB WG2475887	1	-0.007	mg/L	-0.004
03/26/25 21:46:14	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-10 WG2475887	1	-0.001	mg/L	0.002
03/26/25 21:46:21	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-10-SB WG2475887	1	-0.008	mg/L	-0.004
03/26/25 21:46:34	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.515	mg/L	0.476
03/26/25 21:46:43	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.003	mg/L	0.000
03/26/25 21:46:52	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-11 WG2475887	1	-0.003	mg/L	0.000
03/26/25 21:47:00	CR6	CR6 SS 12/19/2024 ARV4164	L1837825-11-SB WG2475887	1	-0.006	mg/L	-0.002
03/26/25 21:47:08	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.515	mg/L	0.475
03/26/25 21:47:15	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.004	mg/L	-0.001

CR6 SS WetChem Prep Benchsheet

Batch: WG2475887

Analyst: ARV4164 **Prep Start Date/Time:** 03/25/25 11:00 **Prep End Date/Time:** 03/26/25 21:30 **Dig Start Date/Time:** 03/26/25 14:20:34
Dig End Date/Time: 03/25/25 15:35:45 **Dig Start Analyst:** PAN4313 **Dig End Analyst:** PAN4313 **Digest Soln. pH:** 13.24 **Phosphate Buffer pH:** 6.61
SOP: MTJL-0153 **Method:** 3060A **Balance ID:** WETBAL10 **1mL Auto Pipette SN:** VU32730 **0.5mL/1mL Auto Pipette Tips Lot#:** 25010044 **ThermoID:** 1053718
ThermoCorrectFact: -0.5 **ThermoPosition/Temp1(C°)/Temp2(C°):** C4/92.1/93.2 **10mL Pipette Lot #:** NA **Transfer Pipette Lot#:** 24490100 **Filter Lot#:** 329076081
pH Strip Lot#: 10BDH2631 **Tongue Depressor Lot#:** P00638 **0.5mL Auto Pipette S/N:** NA **1mL glass pipette Lot#:** NA **Cuvette Lot#:** NA
Cal and Stds Workgroup: NA **Hotblock ID:** 2021CECW5460 **Centrifuge Tube Lot#:** NA **10mL Syringe Lot#:** 241125 **IR Gun ID:** CP52532
Thermometer Location: C4 **Tmer SN:** 240244130

ICV Standard: 25C25799 Amt. Used: 5 mL Exp. Date:03/26/25 **LCS/D Standard:** 25C25798 Amt. Used: 6 mL Exp. Date:03/25/25
MS/D Standard: 25C25798 Amt. Used: 5 mL Exp. Date:03/25/25 **Post spike:** 25C25798 Amt. Used: 0.60 mL Exp. Date:03/25/25
Digestion Solution: 25C21303 Amt. Used: 50 mL Exp. Date:09/21/25 **5N HNO3:** 25C15312 Amt. Used: 3 Exp. Date:07/07/25
Phosphate Buffer: 25B18330 Amt. Used: 0.50 mL Exp. Date:04/03/25 **H2SO4:** 25B20586 Amt. Used: 3 Exp. Date:08/20/25
Color Reagent: 25C20125 Amt. Used: 0.20 mL Exp. Date:03/27/25 **PbCrO4:** 25A21864 Amt. Used: 0.01 g Exp. Date:01/01/34
Sand: 25A29129 Amt. Used: 2.50 g Exp. Date:07/29/25 **MgCl2:** 25A31532 Amt. Used: 0.40 g Exp. Date:07/31/25
Acetone: 25C18732 Amt. Used: 0.20 mL Exp. Date:09/18/25

Sample Number	Initial Sample Wt. (g)	Final Volume (mL)	Dilution Factor	Adjusted pH	Review Analyst	Review Date
ICV	2.4924	100	1	1.5-2.5	ARV4164	03/26/25 21:53:23
BLANK	2.4560	100	1	1.5-2.5	ARV4164	03/26/25 21:53:23
LCS	2.5664	100	1	1.5-2.5	ARV4164	03/26/25 21:53:23
1. L1837825-01	0.2505	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
2. L1837825-02	0.2512	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
3. L1837825-03	0.2559	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
4. L1837825-04	0.2522	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
5. L1837825-05	0.2504	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
6. L1837825-06	0.2530	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
7. L1837825-07	0.2595	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
8. L1837825-08	0.2554	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
9. L1837825-09	0.2540	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
10. L1837825-10	0.2529	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
11. L1837825-11	0.2563	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
DUP(L1837825-02)	0.2534	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
DUP(L1837825-06)	0.2563	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
MS(L1837825-01)	0.2503	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
MSD(L1837825-01)	0.2588	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23
Ins MS(L1837825-01)	0.2513	100	20	1.5-2.5	ARV4164	03/26/25 21:53:23

Comments:

Reviewed By:ARV4164 on 03/26/25 21:53:23

#	Type	Thermometer	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	IR Gun 1	1053718	-0.6	03/25/25 15:14:29	91.4	90.8	03/25/25 15:45:51	92.6	92	ICV, BLANK, LCS, L1837825-01, L1837825-11, L1837825-10, L1837825-09, L1837825-08, L1837825-07, L1837825-06, L1837825-05, L1837825-04, L1837825-03, L1837825-02, DUP(L1837825-02), DUP(L1837825-06), MS(L1837825-01), MSD(L1837825-01), Ins MS(L1837825-01)
2	IR Gun 1	1053718	-0.6	03/25/25 15:45:16	92.6	92	03/25/25 16:15:30	94.7	94.1	ICV, BLANK, LCS, L1837825-01, L1837825-02, L1837825-03, L1837825-04, L1837825-05, L1837825-06, L1837825-07, L1837825-08, L1837825-09, L1837825-10, L1837825-11, DUP(L1837825-02), DUP(L1837825-06), MS(L1837825-01), MSD(L1837825-01), Ins MS(L1837825-01)

6010D Metals (ICP)

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1837825-01	**SDG:**	L1837825
Client Sample ID:	MONTROSE_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321122810	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:28
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.46 g
Total Solids (%):	70.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	2.04	J	1.20	2.86
Barium	7440-39-3	111		0.121	0.715
Boron	7440-42-8	U		6.43	28.6
Cadmium	7440-43-9	0.328	J	0.0933	0.715
Chromium	7440-47-3	5.34		0.306	1.43
Cobalt	7440-48-4	5.50		0.253	1.43
Lead	7439-92-1	41.0		0.466	0.715
Lithium	7439-93-2	2.01	J	0.579	7.15
Selenium	7782-49-2	U		1.53	2.86
Silver	7440-22-4	0.321	B J	0.182	1.43

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1837825-02	**SDG:**	L1837825
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250321123627	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:36
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.47 g
Total Solids (%):	78.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		1.07	2.55
Barium	7440-39-3	90.8		0.108	0.637
Boron	7440-42-8	U		5.74	25.5
Cadmium	7440-43-9	0.200	J	0.0832	0.637
Chromium	7440-47-3	3.96		0.273	1.27
Cobalt	7440-48-4	5.49		0.226	1.27
Lead	7439-92-1	13.3		0.416	0.637
Lithium	7439-93-2	3.93	J	0.516	6.37
Selenium	7782-49-2	U		1.36	2.55
Silver	7440-22-4	0.731	B J	0.162	1.27

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
650_851_I_SO

Lab Sample ID:	L1837825-03	**SDG:**	L1837825
Client Sample ID:	650_851_I_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	20250321123806	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:38
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	73.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.13	J	1.15	2.74
Barium	7440-39-3	94.7		0.116	0.685
Boron	7440-42-8	U		6.16	27.4
Cadmium	7440-43-9	U		0.0895	0.685
Chromium	7440-47-3	4.99		0.293	1.37
Cobalt	7440-48-4	4.26		0.242	1.37
Lead	7439-92-1	10.4		0.447	0.685
Lithium	7439-93-2	2.57	J	0.555	6.85
Selenium	7782-49-2	U		1.47	2.74
Silver	7440-22-4	0.367	B J	0.174	1.37

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1837825-04	**SDG:**	L1837825
Client Sample ID:	601_T_I_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	20250321123945	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:39
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	71.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.41	J	1.16	2.78
Barium	7440-39-3	128		0.118	0.696
Boron	7440-42-8	U		6.26	27.8
Cadmium	7440-43-9	0.145	J	0.0908	0.696
Chromium	7440-47-3	5.41		0.298	1.39
Cobalt	7440-48-4	11.6		0.246	1.39
Lead	7439-92-1	21.9		0.454	0.696
Lithium	7439-93-2	2.65	J	0.563	6.96
Selenium	7782-49-2	U		1.49	2.78
Silver	7440-22-4	0.635	B J	0.177	1.39

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
250_651_I_SO

Lab Sample ID:	L1837825-05	**SDG:**	L1837825
Client Sample ID:	250_651_I_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	20250321124444	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:44
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	74.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	2.20	J	1.13	2.70
Barium	7440-39-3	86.0		0.115	0.675
Boron	7440-42-8	U		6.07	27.0
Cadmium	7440-43-9	0.135	J	0.0882	0.675
Chromium	7440-47-3	4.34		0.289	1.35
Cobalt	7440-48-4	5.89		0.239	1.35
Lead	7439-92-1	10.7		0.440	0.675
Lithium	7439-93-2	3.10	J	0.547	6.75
Selenium	7782-49-2	U		1.44	2.70
Silver	7440-22-4	0.821	B J	0.171	1.35

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1837825-06	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	20250321124624	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:46
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	71.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.72	J	1.17	2.80
Barium	7440-39-3	89.0		0.119	0.699
Boron	7440-42-8	U		6.29	28.0
Cadmium	7440-43-9	0.111	J	0.0913	0.699
Chromium	7440-47-3	4.85		0.299	1.40
Cobalt	7440-48-4	5.08		0.247	1.40
Lead	7439-92-1	18.0		0.456	0.699
Lithium	7439-93-2	2.01	J	0.566	6.99
Selenium	7782-49-2	U		1.50	2.80
Silver	7440-22-4	0.494	B J	0.178	1.40

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1837825-07	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	20250320130223	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/20/25 07:44
Analytical Batch:	WG2472738	**Analysis Date/Time:**	03/20/25 13:02
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.52 g
Total Solids (%):	74.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	3.69		1.12	2.67
Barium	7440-39-3	84.6		0.114	0.668
Boron	7440-42-8	U		6.01	26.7
Cadmium	7440-43-9	0.279	J	0.0873	0.668
Chromium	7440-47-3	7.50		0.286	1.34
Cobalt	7440-48-4	5.41		0.237	1.34
Lead	7439-92-1	31.2		0.436	0.668
Lithium	7439-93-2	2.87	J	0.541	6.68
Selenium	7782-49-2	U		1.43	2.67
Silver	7440-22-4	0.508	J	0.170	1.34

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAY GROUND_I_SO

Lab Sample ID:	L1837825-08	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	20250321124809	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:48
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):	75.7	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	3.16		1.11	2.64
Barium	7440-39-3	88.6		0.112	0.661
Boron	7440-42-8	U		5.95	26.4
Cadmium	7440-43-9	0.0989	J	0.0863	0.661
Chromium	7440-47-3	6.81		0.283	1.32
Cobalt	7440-48-4	5.98		0.234	1.32
Lead	7439-92-1	19.4		0.431	0.661
Lithium	7439-93-2	2.25	J	0.535	6.61
Selenium	7782-49-2	U		1.41	2.64
Silver	7440-22-4	0.379	B J	0.168	1.32

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_I_SO

Lab Sample ID:	L1837825-09	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	20250321124948	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:49
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	72.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	2.69	J	1.16	2.77
Barium	7440-39-3	115		0.118	0.693
Boron	7440-42-8	U		6.24	27.7
Cadmium	7440-43-9	0.0907	J	0.0905	0.693
Chromium	7440-47-3	4.77		0.297	1.39
Cobalt	7440-48-4	5.19		0.245	1.39
Lead	7439-92-1	15.3		0.452	0.693
Lithium	7439-93-2	1.68	J	0.561	6.93
Selenium	7782-49-2	U		1.48	2.77
Silver	7440-22-4	0.487	B J	0.176	1.39

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_I_SO

Lab Sample ID:	L1837825-10	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_TRACK_I_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	20250321125128	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:51
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	71.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.52	J	1.18	2.81
Barium	7440-39-3	99.8		0.119	0.702
Boron	7440-42-8	U		6.32	28.1
Cadmium	7440-43-9	U		0.0917	0.702
Chromium	7440-47-3	5.88		0.301	1.40
Cobalt	7440-48-4	5.15		0.249	1.40
Lead	7439-92-1	17.7		0.458	0.702
Lithium	7439-93-2	2.66	J	0.569	7.02
Selenium	7782-49-2	U		1.50	2.81
Silver	7440-22-4	0.685	B J	0.178	1.40

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_I_SO

Lab Sample ID:	L1837825-11	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_DUP_I_SO	**Collected Date/Time:**	03/10/25 17:00
Lab File ID:	20250321125307	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:53
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.54 g
Total Solids (%):	75.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	1.83	J	1.11	2.65
Barium	7440-39-3	84.3		0.113	0.663
Boron	7440-42-8	U		5.96	26.5
Cadmium	7440-43-9	0.126	J	0.0865	0.663
Chromium	7440-47-3	5.32		0.284	1.33
Cobalt	7440-48-4	6.10		0.235	1.33
Lead	7439-92-1	14.7		0.432	0.663
Lithium	7439-93-2	2.18	J	0.537	6.63
Selenium	7782-49-2	U		1.42	2.65
Silver	7440-22-4	0.505	B J	0.168	1.33

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189013-1	**SDG:**	L1837825
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250320122312	**Received Date/Time:**	
Instrument ID:	ICP16	**Preparation Date/Time:**	03/20/25 07:44
Analytical Batch:	WG2472738	**Analysis Date/Time:**	03/20/25 12:23
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		0.837	2.00
Barium	7440-39-3	U		0.0850	0.500
Boron	7440-42-8	U		4.50	20.0
Cadmium	7440-43-9	U		0.0653	0.500
Chromium	7440-47-3	U		0.214	1.00
Cobalt	7440-48-4	U		0.177	1.00
Lead	7439-92-1	U		0.326	0.500
Lithium	7439-93-2	U		0.405	5.00
Selenium	7782-49-2	U		1.07	2.00
Silver	7440-22-4	U		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189515-1	**SDG:**	L1837825
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250321122451	**Received Date/Time:**	_____
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:17
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:24
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**MDL**	**RDL**
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		0.837	2.00
Barium	7440-39-3	U		0.0850	0.500
Boron	7440-42-8	U		4.50	20.0
Cadmium	7440-43-9	U		0.0653	0.500
Chromium	7440-47-3	U		0.214	1.00
Cobalt	7440-48-4	U		0.177	1.00
Lead	7439-92-1	U		0.326	0.500
Lithium	7439-93-2	U		0.405	5.00
Selenium	7782-49-2	U		1.07	2.00
Silver	7440-22-4	0.208	J	0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189013-2	**SDG:**	L1837825
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250320122452	**Received Date/Time:**	
Instrument ID:	ICP16	**Preparation Date/Time:**	03/20/25 07:44
Analytical Batch:	WG2472738	**Analysis Date/Time:**	03/20/25 12:24
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	100		0.837	2.00
Barium	7440-39-3	104		0.0850	0.500
Boron	7440-42-8	97.2		4.50	20.0
Cadmium	7440-43-9	102		0.0653	0.500
Chromium	7440-47-3	100		0.214	1.00
Cobalt	7440-48-4	93.7		0.177	1.00
Lead	7439-92-1	98.6		0.326	0.500
Lithium	7439-93-2	95.3		0.405	5.00
Selenium	7782-49-2	98.0		1.07	2.00
Silver	7440-22-4	19.4		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189515-2	**SDG:**	L1837825
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250321122631	**Received Date/Time:**	_____
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:17
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:26
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	102		0.837	2.00
Barium	7440-39-3	103		0.0850	0.500
Boron	7440-42-8	98.9		4.50	20.0
Cadmium	7440-43-9	100		0.0653	0.500
Chromium	7440-47-3	99.6		0.214	1.00
Cobalt	7440-48-4	94.7		0.177	1.00
Lead	7439-92-1	97.7		0.326	0.500
Lithium	7439-93-2	103		0.405	5.00
Selenium	7782-49-2	98.2		1.07	2.00
Silver	7440-22-4	19.9		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189013-5	**SDG:**	L1837825
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 09:40
Lab File ID:	20250320123131	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/20/25 07:44
Analytical Batch:	WG2472738	**Analysis Date/Time:**	03/20/25 12:31
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.45 g
Total Solids (%):	88.0	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result (dry)** *mg/kg*	**Qualifier**	**MDL (dry)** *mg/kg*	**RDL (dry)** *mg/kg*
Arsenic	7440-38-2	135		0.952	2.27
Barium	7440-39-3	638		0.0966	0.568
Boron	7440-42-8	124		5.12	22.7
Cadmium	7440-43-9	123		0.0742	0.568
Chromium	7440-47-3	166		0.243	1.14
Cobalt	7440-48-4	132		0.201	1.14
Lead	7439-92-1	1690	V	0.371	0.568
Lithium	7439-93-2	135		0.460	5.68
Selenium	7782-49-2	105		1.22	2.27
Silver	7440-22-4	26.2		0.144	1.14

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189515-5	**SDG:**	L1837825
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321123308	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:33
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.45 g
Total Solids (%):	70.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	148		1.20	2.86
Barium	7440-39-3	272		0.121	0.715
Boron	7440-42-8	145		6.43	28.6
Cadmium	7440-43-9	147		0.0933	0.715
Chromium	7440-47-3	155		0.306	1.43
Cobalt	7440-48-4	160		0.253	1.43
Lead	7439-92-1	196		0.466	0.715
Lithium	7439-93-2	172		0.579	7.15
Selenium	7782-49-2	123		1.53	2.86
Silver	7440-22-4	31.4		0.182	1.43

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189515-7	**SDG:**	L1837825
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321144841	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 14:48
Dilution Factor:	5	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.45 g
Total Solids (%):	70.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	150		5.99	14.3
Barium	7440-39-3	286		0.607	3.57
Boron	7440-42-8	151		32.2	143
Cadmium	7440-43-9	151		0.467	3.57
Chromium	7440-47-3	158		1.53	7.15
Cobalt	7440-48-4	157		1.26	7.15
Lead	7439-92-1	197		2.33	3.57
Lithium	7439-93-2	170		2.90	35.7
Selenium	7782-49-2	120		7.65	14.3
Silver	7440-22-4	31.9		0.908	7.15

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189013-6	**SDG:**	L1837825
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 09:40
Lab File ID:	20250320123311	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/20/25 07:44
Analytical Batch:	WG2472738	**Analysis Date/Time:**	03/20/25 12:33
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.45 g
Total Solids (%):	88.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	135		0.952	2.27
Barium	7440-39-3	680		0.0966	0.568
Boron	7440-42-8	127		5.12	22.7
Cadmium	7440-43-9	124		0.0742	0.568
Chromium	7440-47-3	169		0.243	1.14
Cobalt	7440-48-4	134		0.201	1.14
Lead	7439-92-1	1870		0.371	0.568
Lithium	7439-93-2	138		0.460	5.68
Selenium	7782-49-2	103		1.22	2.27
Silver	7440-22-4	26.1		0.144	1.14

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189515-6	**SDG:**	L1837825
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321123447	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:34
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	70.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	132		1.20	2.86
Barium	7440-39-3	252		0.121	0.715
Boron	7440-42-8	130		6.43	28.6
Cadmium	7440-43-9	133		0.0933	0.715
Chromium	7440-47-3	140		0.306	1.43
Cobalt	7440-48-4	142		0.253	1.43
Lead	7439-92-1	182		0.466	0.715
Lithium	7439-93-2	153		0.579	7.15
Selenium	7782-49-2	109		1.53	2.86
Silver	7440-22-4	28.3		0.182	1.43

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189515-8	**SDG:**	L1837825
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321145022	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 14:50
Dilution Factor:	5	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	70.0	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result (dry)** *mg/kg*	**Qualifier**	**MDL (dry)** *mg/kg*	**RDL (dry)** *mg/kg*
Arsenic	7440-38-2	142		5.99	14.3
Barium	7440-39-3	270		0.607	3.57
Boron	7440-42-8	137	J	32.2	143
Cadmium	7440-43-9	140		0.467	3.57
Chromium	7440-47-3	146		1.53	7.15
Cobalt	7440-48-4	143		1.26	7.15
Lead	7439-92-1	187		2.33	3.57
Lithium	7439-93-2	155		2.90	35.7
Selenium	7782-49-2	118		7.65	14.3
Silver	7440-22-4	29.4		0.908	7.15

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189013-4	**SDG:**	L1837825
Client Sample ID:	PS	**Collected Date/Time:**	03/10/25 09:40
Lab File ID:	20250320122951	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/20/25 07:44
Analytical Batch:	WG2472738	**Analysis Date/Time:**	03/20/25 12:29
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.46 g
Total Solids (%):	88.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	135		0.952	2.27
Barium	7440-39-3	649		0.0966	0.568
Boron	7440-42-8	128		5.12	22.7
Cadmium	7440-43-9	121		0.0742	0.568
Chromium	7440-47-3	165		0.243	1.14
Cobalt	7440-48-4	131		0.201	1.14
Lead	7439-92-1	1850		0.371	0.568
Lithium	7439-93-2	135		0.460	5.68
Selenium	7782-49-2	110		1.22	2.27
Silver	7440-22-4	24.7		0.144	1.14

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189515-4	**SDG:**	L1837825
Client Sample ID:	PS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321123129	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:31
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.46 g
Total Solids (%):	70.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	151		1.20	2.86
Barium	7440-39-3	258		0.121	0.715
Boron	7440-42-8	150		6.43	28.6
Cadmium	7440-43-9	146		0.0933	0.715
Chromium	7440-47-3	152		0.306	1.43
Cobalt	7440-48-4	156		0.253	1.43
Lead	7439-92-1	191		0.466	0.715
Lithium	7439-93-2	167		0.579	7.15
Selenium	7782-49-2	144		1.53	2.86
Silver	7440-22-4	28.3		0.182	1.43

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189013-3	**SDG:**	L1837825
Client Sample ID:	SD	**Collected Date/Time:**	03/10/25 09:40
Lab File ID:	20250320122812	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/20/25 07:44
Analytical Batch:	WG2472738	**Analysis Date/Time:**	03/20/25 12:28
Dilution Factor:	5	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.46 g
Total Solids (%):	88.0	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result (dry)** *mg/kg*	**Qualifier**	**MDL (dry)** *mg/kg*	**RDL (dry)** *mg/kg*
Arsenic	7440-38-2	17.2		4.76	11.4
Barium	7440-39-3	553		0.483	2.84
Boron	7440-42-8	U		25.6	114
Cadmium	7440-43-9	1.81	J	0.372	2.84
Chromium	7440-47-3	44.2		1.22	5.68
Cobalt	7440-48-4	11.8		1.01	5.68
Lead	7439-92-1	1690		1.85	2.84
Lithium	7439-93-2	13.3	J	2.31	28.4
Selenium	7782-49-2	U		6.08	11.4
Silver	7440-22-4	1.62	J	0.722	5.68

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189515-3	**SDG:**	L1837825
Client Sample ID:	SD	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321122950	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:18
Analytical Batch:	WG2473633	**Analysis Date/Time:**	03/21/25 12:29
Dilution Factor:	5	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.46 g
Total Solids (%):	70.0	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result (dry)** *mg/kg*	**Qualifier**	**MDL (dry)** *mg/kg*	**RDL (dry)** *mg/kg*
Arsenic	7440-38-2	U		5.99	14.3
Barium	7440-39-3	118		0.607	3.57
Boron	7440-42-8	U		32.2	143
Cadmium	7440-43-9	U		0.467	3.57
Chromium	7440-47-3	6.41	J	1.53	7.15
Cobalt	7440-48-4	5.02	J	1.26	7.15
Lead	7439-92-1	41.2		2.33	3.57
Lithium	7439-93-2	4.52	J	2.90	35.7
Selenium	7782-49-2	U		7.65	14.3
Silver	7440-22-4	1.43	J	0.908	7.15

CALIBRATION VERIFICATION

SDG:	L1837825	**Calibration (begin) date/time:**	03/20/25 07:48
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/20/25 07:58
Analytical Method:	6010D	**Analytical Run:**	032025ICP16A
Concentration Units:	mg/l		

		ICV				**ICVLL**				**CCV**		
Sample ID:		ICP160320250800				ICP160320250817				ICP160320251219-2		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.042424	104	0.835000	0.01	0.008316257	83.20	29.100000	1	1.010845	101	0.250000
BARIUM	1	1.045806	105	0.567000	0.0050	0.005159642	103	8.150000	0.50	0.5151051	103	0.541000
BORON	1	0.9964394	99.60	0.672000	0.20	0.1923988	96.20	2.460000	1	0.9909273	99.10	0.605000
CADMIUM	1	1.041399	104	0.309000	0.0020	0.001845897	92.30	3.990000	0.50	0.5124372	102	0.277000
CHROMIUM	1	1.028649	103	0.606000	0.01	0.008562226	85.60	10.500000	1	1.014323	101	0.459000
COBALT	1	0.957001	95.70	0.233000	0.01	0.009519721	95.20	3.710000	1	0.9787839	97.90	0.218000
LEAD	1	1.006807	101	0.508000	0.0050	0.004107582	82.20	33.300000	0.50	0.4992288	99.80	0.804000
LITHIUM	1	0.9507769	95.10	0.218000	0.0150	0.01460937	97.40	14.400000	1	0.9586159	95.90	1.080000
SELENIUM	1	1.017006	102	1.000000	0.01	0.01175729	118	51.300000	1	1.016306	102	1.190000
SILVER	1	0.9932258	99.30	1.510000	0.0050	0.005143825	103	9.850000	0.50	0.5139288	103	0.794000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

CALIBRATION VERIFICATION

SDG:	L1837825	**Calibration (begin) date/time:**	03/20/25 07:48
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/20/25 07:58
Analytical Method:	6010D	**Analytical Run:**	032025ICP16A
Concentration Units:	mg/l		

		CCV				CCV				CCVLL		
Sample ID:		ICP160320251244				ICP160320251304				ICP160320251519		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.006568	101	0.593000	1	1.011757	101	1.230000	0.01	0.01433123	143	44.100000
BARIUM	0.50	0.5080368	102	0.419000	0.50	0.5140299	103	0.302000	0.0050	0.005025249	101	1.800000
BORON	1	1.001075	100	0.903000	1	1.003532	100	0.860000	0.20	0.1968889	98.40	1.290000
CADMIUM	0.50	0.5036652	101	0.599000	0.50	0.5115015	102	0.709000	0.0020	0.002046227	102	15.600000
CHROMIUM	1	0.9976978	99.80	0.091200	1	1.018001	102	0.276000	0.01	0.00921217	92.10	8.390000
COBALT	1	0.968108	96.80	0.950000	1	0.9698636	97	0.518000	0.01	0.008261871	82.60	23.000000
LEAD	0.50	0.5003196	100	0.433000	0.50	0.5023743	100	0.460000	0.0050	0.00515475	103	19.400000
LITHIUM	1	0.9598161	96	0.969000	1	0.957137	95.70	1.770000	0.0150	0.01685963	112	8.050000
SELENIUM	1	0.9961377	99.60	1.310000	1	1.003823	100	0.155000	0.01	0.008295403	83	109.000000
SILVER	0.50	0.5078055	102	1.250000	0.50	0.5117726	102	0.735000	0.0050	0.004892488	97.80	20.500000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

CALIBRATION VERIFICATION

SDG:	L1837825	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A
Concentration Units:	mg/l		

		ICV				ICVLL				CCV		
Sample ID:		ICP160321250855				ICP160321250904				ICP160321251221		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.02498	102	1.750000	0.01	0.01079751	108	25.100000	1	0.9807023	98.10	1.020000
BARIUM	1	1.029953	103	0.823000	0.0050	0.005599951	112	4.410000	0.50	0.5079506	102	0.646000
BORON	1	0.9993199	99.90	0.745000	0.20	0.2031552	102	1.650000	1	1.00874	101	0.264000
CADMIUM	1	1.029156	103	1.150000	0.0020	0.001744789	87.20	8.360000	0.50	0.4911271	98.20	1.140000
CHROMIUM	1	0.9987973	99.90	1.130000	0.01	0.00938971	93.90	9.270000	1	0.9905465	99.10	0.845000
COBALT	1	0.9537096	95.40	1.010000	0.01	0.00905538	90.60	20.600000	1	0.9721074	97.20	0.381000
LEAD	1	0.9998232	100	1.040000	0.0050	0.005773866	115	83.800000	0.50	0.4911481	98.20	0.710000
LITHIUM	1	1.001239	100	1.250000	0.0150	0.01442687	96.20	30.100000	1	1.031383	103	0.569000
SELENIUM	1	0.9989623	99.90	0.373000	0.01	0.01071712	107	18.000000	1	0.9827827	98.30	1.940000
SILVER	1	0.9815322	98.20	0.826000	0.0050	0.005941825	119	10.500000	0.50	0.5104481	102	0.793000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

CALIBRATION VERIFICATION

SDG:	L1837825	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A
Concentration Units:	mg/l		

		CCV				CCV				CCV		
Sample ID:		ICP160321251241				ICP160321251254				ICP160321251433		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.003293	100	0.972000	1	0.9927794	99.30	0.697000	1	0.9930413	99.30	1.980000
BARIUM	0.50	0.5093903	102	0.574000	0.50	0.5059361	101	0.272000	0.50	0.5095882	102	0.617000
BORON	1	1.011008	101	0.145000	1	1.003865	100	0.742000	1	1.004579	100	0.762000
CADMIUM	0.50	0.497216	99.40	0.830000	0.50	0.4924611	98.50	0.767000	0.50	0.4943901	98.90	0.949000
CHROMIUM	1	0.9986246	99.90	0.658000	1	0.9823762	98.20	0.625000	1	0.993383	99.30	0.935000
COBALT	1	0.9784349	97.80	1.170000	1	0.9677766	96.80	0.894000	1	0.9851784	98.50	0.384000
LEAD	0.50	0.4985505	99.70	0.187000	0.50	0.489138	97.80	0.421000	0.50	0.4950788	99	0.506000
LITHIUM	1	1.03389	103	0.159000	1	1.029568	103	0.075000	1	1.021477	102	0.614000
SELENIUM	1	0.9779275	97.80	2.130000	1	0.9896901	99	0.275000	1	0.9877133	98.80	1.650000
SILVER	0.50	0.5123025	102	0.939000	0.50	0.5102882	102	1.020000	0.50	0.5124768	102	0.626000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

CALIBRATION VERIFICATION

SDG:	L1837825	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A
Concentration Units:	mg/l		

		CCV			CCVLL				CCVLL			
Sample ID:		ICP160321251452			ICP160321251543				ICP160321251552			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.005084	101	1.500000	0.01	0.01033627	103	47.700000	0.01	0.01241518	124	49.400000
BARIUM	0.50	0.5125419	103	0.460000	0.0050	0.00548305	110	5.360000	0.0050	0.005425338	109	0.767000
BORON	1	1.009829	101	0.570000	0.20	0.2005224	100	0.311000	0.20	0.2053369	103	1.820000
CADMIUM	0.50	0.4955094	99.10	0.510000	0.0020	0.001955071	97.80	26.800000	0.0020	0.001559242	78	51.500000
CHROMIUM	1	0.9914771	99.10	0.618000	0.01	0.009837807	98.40	15.500000	0.01	0.01104435	110	2.950000
COBALT	1	0.9828805	98.30	0.286000	0.01	0.007897482	79	3.290000	0.01	0.008823406	88.20	12.400000
LEAD	0.50	0.4932257	98.60	0.608000	0.0050	0.005150626	103	30.000000	0.0050	0.005269866	105	47.800000
LITHIUM	1	1.024343	102	0.581000	0.0150	0.01899758	127	32.000000	0.0150	0.01950312	130	18.400000
SELENIUM	1	1.000476	100	1.230000	0.01	-0.001430389	0	341.000000	0.01	0.007672601	76.70	82.400000
SILVER	0.50	0.5181162	104	1.020000	0.0050	0.006398924	128	14.200000	0.0050	0.006428095	129	26.100000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

CALIBRATION VERIFICATION

SDG:	L1837825	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A
Concentration Units:	mg/l		

CCVLL

Sample ID: ICP160321251539

Analyte	True	Found	%R	%RSD
ARSENIC				
BARIUM				
BORON				
CADMIUM				
CHROMIUM	0.01	-0.003689649	0	103.000000
COBALT	0.01	-0.007394036	0	122.000000
LEAD	0.0050	0.004000752	80	130.000000
LITHIUM				
SELENIUM				
SILVER	0.0050	-0.007427886	0	112.000000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

SDG:	L1837825	**Calibration (begin) date/time:**	03/20/25 07:48
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/20/25 07:58
Analytical Method:	6010D	**Analytical Run:**	032025ICP16A

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250320081305		20250320122129-2		20250320122312		20250320124542	
Analyte	mg/l		mg/l		mg/kg		mg/l	
ARSENIC	0.0004784904	U	0.0006628289	U	U		-0.001558813	U
BARIUM	0.00008722729	U	-0.00009694662	U	U		-0.0001004475	U
BORON	0.002001442	U	-0.003901098	U	U		-0.002738305	U
CADMIUM	-0.0001503468	U	-0.00008426077	U	U		-0.0003429228	U
CHROMIUM	-0.0006614655	U	-0.0008937472	U	U		-0.001443147	U
COBALT	-0.0003204761	U	-0.0004675192	U	U		0.000832994	U
LEAD	-0.001132932	U	-0.0005857536	U	U		-0.001270577	U
LITHIUM	-0.00149949	U	0.0004208203	U	U		-0.0001710017	U
SELENIUM	-0.001097117	U	-0.01206991	U	U		-0.006208862	U
SILVER	0.0002925576	U	0.000009355094	U	U		-0.00006506618	U

SDG:	L1837825	**Calibration (begin) date/time:**	03/20/25 07:48
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/20/25 07:58
Analytical Method:	6010D	**Analytical Run:**	032025ICP16A

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20250320130543	
Analyte	mg/l	
ARSENIC	-0.002672724	U
BARIUM	-0.00008310648	U
BORON	-0.004967837	U
CADMIUM	-0.00003812778	U
CHROMIUM	-0.0006876229	U
COBALT	0.0001777109	U
LEAD	-0.001002553	U
LITHIUM	0.001047956	U
SELENIUM	0.0003149118	U
SILVER	0.0001147989	U

SDG:	L1837825	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250321085943		20250321122309		20250321122451		20250321124305	
Analyte	mg/l		mg/l		mg/kg		mg/l	
ARSENIC	-0.0006736891	U	-0.0003798348	U	U		-0.00326389	U
BARIUM	-0.00005799971	U	0.0003153733	U	U		0.0003827184	U
BORON	-0.00342413	U	-0.003829557	U	U		-0.0008056285	U
CADMIUM	0.0001307474	U	-0.0001116768	U	U		-0.0004345364	U
CHROMIUM	0.0004348755	U	0.0006039382	U	U		0.001004207	U
COBALT	0.0005244144	U	-0.0009540096	U	U		0.0003254602	U
LEAD	0.00120905	U	0.0008405742	U	U		0.000659213	U
LITHIUM	0.0003221891	U	0.004829236	U	U		0.003543726	U
SELENIUM	-0.002132518	U	0.001599884	U	U		0.002540397	U
SILVER	0.0004579817	U	0.0004908803	U	0.208	J	0.001703899	U

SDG:	L1837825	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250321125627		20250321143513		20250321145346	
Analyte	mg/l		mg/l		mg/l	
ARSENIC	-0.000557276	U	0.002009995	U	0.002049113	U
BARIUM	0.0004107135	U	0.0004225761	U	0.0002927688	U
BORON	-0.002633411	U	-0.0007081159	U	0.0003542761	U
CADMIUM	-0.0009040939	U	-0.0003580255	U	0.0002534351	U
CHROMIUM	0.0006009519	U	0.0009042565	U	0.0002567625	U
COBALT	-0.0003390807	U	-0.0009189521	U	0.0003227652	U
LEAD	0.002857462	U	0.0002963807	U	0.0003203444	U
LITHIUM	0.001818176	U	0.002200687	U	0.004378913	U
SELENIUM	0.006346337	U	0.00150922	U	-0.004498764	U
SILVER	0.0012648	U	0.0008819587	U	0.0006530615	U

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1837825	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/20/25 08:19
Instrument Run:	032025ICP16A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	504.8245	101	500	509.5888	102
ANTIMONY	0	-0.0004012494		0.50	0.4817307	96.30
ARSENIC	0	-0.0216618		0.50	0.4865869	97.30
BARIUM	0	0.002228665		0.50	0.5052359	101
BERYLLIUM	0	0.000556513		0.50	0.5004795	100
BORON	0	-0.03809212		1	0.9684823	96.80
CADMIUM	0	-0.002343317		1	0.9971324	99.70
CALCIUM	500	507.1498	101	500	511.9148	102
CERIUM	0	-0.006899404		0	0.007439007	
CHROMIUM	0	-0.004937087		0.50	0.4833653	96.70
COBALT	0	-0.0004358077		0.50	0.5084683	102
COPPER	0	0.01171203		0.50	0.5162868	103
IRON	200	201.8544	101	200	204.0184	102
LANTHANUM	0	-0.005605225		0	-0.00828664	
LEAD	0	0.0009522821		1	1.004238	100
LITHIUM	0	0.0008420185		0	0.004045005	
MAGNESIUM	500	517.5748	104	500	520.3529	104
MANGANESE	0	-0.007546061		0.50	0.5024845	100
MOLYBDENUM	0	-0.001443624		0.50	0.4661995	93.20
NICKEL	0	0.002680541		1	1.016334	102
PHOSPHORUS	0	0.0008104356		0	-0.000184178	
POTASSIUM	0	0.1723407		0	0.1165781	
SELENIUM	0	-0.02188909		0.50	0.4729978	94.60
SILICON	0	-0.004463447		1	1.029734	103
SILVER	0	0.004767696		1	0.7996307	80
SODIUM	0	0.08104788		0	0.1116629	
STRONTIUM	0	0.006325379		0	0.006707932	
SULFUR	0	0.006239561		0	0.01194947	
THALLIUM	0	-0.008521339		0.50	0.4725159	94.50
TIN	0	0.001621885		0.50	0.4905757	98.10
TITANIUM	0	-0.004874509		0.50	0.4877451	97.50
VANADIUM	0	0.004457784		0.50	0.4882487	97.60
ZINC	0	0.009316939		1	1.016003	102

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1837825	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/20/25 15:21
Instrument Run:	032025ICP16A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	509.7632	102	500	511.7667	102
ANTIMONY	0	-0.01016302		0.50	0.4868906	97.40
ARSENIC	0	-0.01694434		0.50	0.4810244	96.20
BARIUM	0	0.0008688936		0.50	0.5091463	102
BERYLLIUM	0	0.0005092356		0.50	0.5015824	100
BORON	0	-0.03690791		1	0.9882293	98.80
CADMIUM	0	-0.0006282073		1	1.004657	100
CALCIUM	500	512.4861	102	500	513.5816	103
CERIUM	0	0.126342		0	0.1233524	
CHROMIUM	0	-0.00360324		0.50	0.484736	96.90
COBALT	0	-0.0006459675		0.50	0.5126333	103
COPPER	0	0.008276393		0.50	0.5190155	104
IRON	200	206.5684	103	200	207.2886	104
LANTHANUM	0	-0.008444605		0	-0.0142259	
LEAD	0	0.01448863		1	1.019419	102
LITHIUM	0	0.001856654		0	-0.0003976623	
MAGNESIUM	500	523.978	105	500	526.0054	105
MANGANESE	0	-0.004590071		0.50	0.5097265	102
MOLYBDENUM	0	-0.001221		0.50	0.4688725	93.80
NICKEL	0	0.001020725		1	1.021073	102
PHOSPHORUS	0	0.002178624		0	0.003221859	
POTASSIUM	0	0.1631696		0	0.1039222	
SELENIUM	0	-0.028935		0.50	0.4694329	93.90
SILICON	0	0.003966642		1	1.083961	108
SILVER	0	0.004109754				
SODIUM	0	0.05322147		0	0.09518622	
STRONTIUM	0	0.006467452		0	0.006572652	
SULFUR	0	0.0004483469		0	-0.002262754	
THALLIUM	0	-0.001367104		0.50	0.4740985	94.80
TIN	0	0.001518092		0.50	0.496353	99.30
TITANIUM	0	-0.00428187		0.50	0.4935524	98.70
VANADIUM	0	0.004189726		0.50	0.4948215	99
ZINC	0	0.003410518		1	1.021088	102

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1837825	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/21/25 09:06
Instrument Run:	032125ICP16A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	509.1013	102	500	508.1369	102
ANTIMONY	0	0.006447154		0.50	0.495221	99
ARSENIC	0	-0.004907903		0.50	0.4935868	98.70
BARIUM	0	0.0018303		0.50	0.5033935	101
BERYLLIUM	0	0.0007008089		0.50	0.5020147	100
BORON	0	-0.03529493		1	0.9730376	97.30
CADMIUM	0	-0.0007914524		1	1.001625	100
CALCIUM	500	511.6463	102	500	512.776	103
CERIUM	0	0.08687797		0	0.1076273	
CHROMIUM	0	-0.005823406		0.50	0.4835681	96.70
COBALT	0	0.001132004		0.50	0.5082139	102
COPPER	0	0.01139299		0.50	0.5248616	105
IRON	200	204.2666	102	200	203.827	102
LANTHANUM	0	-0.001980646		0	-0.006128269	
LEAD	0	-0.00001767799		1	1.003979	100
LITHIUM	0	0.01022379		0	0.003950866	
MAGNESIUM	500	524.8626	105	500	522.573	105
MANGANESE	0	-0.008460159		0.50	0.5000247	100
MOLYBDENUM	0	0.001139825		0.50	0.4905902	98.10
NICKEL	0	0.00004664138		1	1.016567	102
PHOSPHORUS	0	0.007550403		0	0.002309558	
POTASSIUM	0	0.06504105		0	0.05152367	
SELENIUM	0	-0.0006311484		0.50	0.4891785	97.80
SILICON	0	-0.002068487		1	0.9595425	96
SILVER	0	0.004693209		1	1.00145	100
SODIUM	0	0.02404681		0	0.06280299	
STRONTIUM	0	0.005731087		0	0.006023902	
SULFUR	0	-0.004359289		0	0.004478473	
THALLIUM	0	-0.008104253		0.50	0.4847077	96.90
TIN	0	-0.0009146921		0.50	0.4994098	99.90
TITANIUM	0	-0.003497506		0.50	0.4897595	98
VANADIUM	0	0.007661386		0.50	0.4921151	98.40
ZINC	0	0.0109761		1	1.019194	102

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1837825	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/21/25 15:58
Instrument Run:	032125ICP16A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	510.7923	102	500	509.9926	102
ANTIMONY	0	0.005589612		0.50	0.4857457	97.10
ARSENIC	0	0.01085256		0.50	0.5065857	101
BARIUM	0	0.002219882		0.50	0.5016722	100
BERYLLIUM	0	0.0006624589		0.50	0.5059382	101
BORON	0	-0.03585051		1	0.9782687	97.80
CADMIUM	0	-0.001678091		1	0.9761794	97.60
CALCIUM	500	516.382	103	500	513.1524	103
CERIUM	0	-0.05867328		0	-0.06015679	
CHROMIUM	0	-0.003467799		0.50	0.4781931	95.60
COBALT	0	-0.0002812261		0.50	0.508864	102
COPPER	0	0.01321457		0.50	0.5193552	104
IRON	200	203.5232	102	200	202.395	101
LANTHANUM	0	0.00339477		0	-0.002720977	
LEAD	0	0.002625142		1	0.9784631	97.80
LITHIUM	0	0.001072101		0	0.00351023	
MAGNESIUM	500	527.6024	106	500	524.521	105
MANGANESE	0	-0.007410586		0.50	0.499555	99.90
MOLYBDENUM	0	0.002875937		0.50	0.4768171	95.40
NICKEL	0	0.001347976		1	1.003753	100
PHOSPHORUS	0	0.002587286		0	0.004151974	
POTASSIUM	0	-0.01520476		0	-0.06919999	
SELENIUM	0	-0.01461459		0.50	0.4918897	98.40
SILICON	0	0.003685884		1	0.9283568	92.80
SILVER	0	0.005154903		1	0.9435174	94.40
SODIUM	0	-0.0681063		0	-0.0369445	
STRONTIUM	0	0.006022719		0	0.006160362	
SULFUR	0	-0.008632139		0	-0.005977017	
THALLIUM	0	-0.006196374		0.50	0.4638389	92.80
TIN	0	-0.0001717014		0.50	0.4870718	97.40
TITANIUM	0	-0.004286111		0.50	0.491764	98.40
VANADIUM	0	0.005867904		0.50	0.492972	98.60
ZINC	0	0.0113127		1	1.016482	102

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1837825-07

SAMPLE NO.:
R4189013-5
R4189013-6

MS Sample / File ID: R4189013-5 / 20250320123131
MSD Sample / File ID: R4189013-6 / 20250320123311
OS Sample / File ID: L1836966-09 / 20250320122632
Instrument ID: ICP16
Analytical Method: 6010D

SDG: L1837825
Analytical Batch: WG2472738
Matrix: Solid

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	114	17.1	135	135	104	104	1	75.0 - 125	0.321	20
Barium	114	543	638	680	83.4	120	1	75.0 - 125	6.38	20
Boron	114	11.2	124	127	99.7	102	1	75.0 - 125	1.93	20
Cadmium	114	1.97	123	124	106	107	1	75.0 - 125	0.918	20
Chromium	114	45.0	166	169	106	109	1	75.0 - 125	2.21	20
Cobalt	114	12.1	132	134	105	107	1	75.0 - 125	1.87	20
Lead	114	1750	1690	1870	0.000*	110	1	75.0 - 125	10.5	20
Lithium	114	13.1	135	138	108	110	1	75.0 - 125	2.21	20
Selenium	114	U	105	103	91.9	90.5	1	75.0 - 125	1.56	20
Silver	22.7	1.75	26.2	26.1	108	107	1	75.0 - 125	0.274	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1837825-01,02,03,04,05,06,08,09,10,11

SAMPLE NO.:
R4189515-5
R4189515-6

MS Sample / File ID: R4189515-5 / 20250321123308
MSD Sample / File ID: R4189515-6 / 20250321123447
OS Sample / File ID: L1837825-01 / 20250321122810
Instrument ID: ICP16
Analytical Method: 6010D

SDG: L1837825
Analytical Batch: WG2473633
Matrix: Solid

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	143	2.04	148	132	102	91.1	1	75.0 - 125	11.2	20
Barium	143	111	272	252	113	98.3	1	75.0 - 125	7.80	20
Boron	143	U	145	130	101	90.8	1	75.0 - 125	11.1	20
Cadmium	143	0.328	147	133	103	92.5	1	75.0 - 125	10.4	20
Chromium	143	5.34	155	140	105	93.9	1	75.0 - 125	10.4	20
Cobalt	143	5.50	160	142	108	95.9	1	75.0 - 125	11.5	20
Lead	143	41.0	196	182	108	98.9	1	75.0 - 125	7.12	20
Lithium	143	2.01	172	153	119	106	1	75.0 - 125	11.8	20
Selenium	143	U	123	109	85.9	76.6	1	75.0 - 125	11.4	20
Silver	28.6	0.321	31.4	28.3	109	97.8	1	75.0 - 125	10.4	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1837825-01,02,03,04,05,06,08,09,10,11

SAMPLE NO.:
R4189515-7
R4189515-8

MS Sample / File ID: R4189515-7 / 20250321144841
MSD Sample / File ID: R4189515-8 / 20250321145022
OS Sample / File ID: L1837825-01 / 20250321144701
Instrument ID: ICP16
Analytical Method: 6010D

SDG: L1837825
Analytical Batch: WG2473633
Matrix: Solid

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	143	U	150	142	105	99.1	5	75.0 - 125	6.06	20
Barium	143	122	286	270	115	104	5	75.0 - 125	5.85	20
Boron	143	U	151	137	106	95.6	5	75.0 - 125	10.1	20
Cadmium	143	U	151	140	106	97.8	5	75.0 - 125	7.99	20
Chromium	143	6.27	158	146	106	97.7	5	75.0 - 125	8.20	20
Cobalt	143	6.45	157	143	105	95.3	5	75.0 - 125	9.57	20
Lead	143	40.9	197	187	109	103	5	75.0 - 125	4.75	20
Lithium	143	U	170	155	119	109	5	75.0 - 125	9.15	20
Selenium	143	U	120	118	84.2	82.6	5	75.0 - 125	1.95	20
Silver	28.6	U	31.9	29.4	112	103	5	75.0 - 125	8.04	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1837825-07

PS Sample / File ID:	R4189013-4 / 20250320122951	**SDG:**	L1837825
OS Sample / File ID:	L1836966-09 / 20250320122632	**Analytical Batch:**	WG2472738
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Arsenic	114	17.1	135		104		1	80.0 - 120		
Barium	114	543	649		93.2		1	80.0 - 120		
Boron	114	11.2	128		103		1	80.0 - 120		
Cadmium	114	1.97	121		105		1	80.0 - 120		
Chromium	114	45.0	165		105		1	80.0 - 120		
Cobalt	114	12.1	131		104		1	80.0 - 120		
Lead	114	1750	1850		92.8		1	80.0 - 120		
Lithium	114	13.1	135		108		1	80.0 - 120		
Selenium	114	U	110		96.6		1	80.0 - 120		
Silver	22.7	1.75	24.7		101		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1837825-01,02,03,04,05,06,08,09,10,11

PS Sample / File ID:	R4189515-4 / 20250321123129	**SDG:**	L1837825
OS Sample / File ID:	L1837825-01 / 20250321122810	**Analytical Batch:**	WG2473633
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		%	%		%	%	%
Arsenic	143	2.04	151		104		1	80.0 - 120		
Barium	143	111	258		102		1	80.0 - 120		
Boron	143	U	150		105		1	80.0 - 120		
Cadmium	143	0.328	146		102		1	80.0 - 120		
Chromium	143	5.34	152		103		1	80.0 - 120		
Cobalt	143	5.50	156		105		1	80.0 - 120		
Lead	143	41.0	191		105		1	80.0 - 120		
Lithium	143	2.01	167		115		1	80.0 - 120		
Selenium	143	U	144		100		1	80.0 - 120		
Silver	28.6	0.321	28.3		98.0		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1837825-07

SAMPLE NO.:
R4189013-2

LCS Sample / File ID:	R4189013-2 / 20250320122452	**SDG:**	L1837825
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2472738
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Arsenic	100	100		100		80.0 - 120		
Barium	100	104		104		80.0 - 120		
Boron	100	97.2		97.2		80.0 - 120		
Cadmium	100	102		102		80.0 - 120		
Chromium	100	100		100		80.0 - 120		
Cobalt	100	93.7		93.7		80.0 - 120		
Lead	100	98.6		98.6		80.0 - 120		
Lithium	100	95.3		95.3		80.0 - 120		
Selenium	100	98.0		98.0		80.0 - 120		
Silver	20.0	19.4		97.1		80.0 - 120		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1837825-01,02,03,04,05,06,08,09,10,11

SAMPLE NO.: R4189515-2

LCS Sample / File ID:	R4189515-2 / 20250321122631	**SDG:**	L1837825
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2473633
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Arsenic	100	102		102		80.0 - 120		
Barium	100	103		103		80.0 - 120		
Boron	100	98.9		98.9		80.0 - 120		
Cadmium	100	100		100		80.0 - 120		
Chromium	100	99.6		99.6		80.0 - 120		
Cobalt	100	94.7		94.7		80.0 - 120		
Lead	100	97.7		97.7		80.0 - 120		
Lithium	100	103		103		80.0 - 120		
Selenium	100	98.2		98.2		80.0 - 120		
Silver	20.0	19.9		99.5		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4189013-3 / 20250320122812	**SDG:**	L1837825
OS Sample / File ID:	L1836966-09 / 20250320122632	**Analytical Batch:**	WG2472738
Lab File ID:	20250320122812	**Dilution Factor:**	5
Instrument ID:	ICP16	**Matrix:**	Solid
Analytical Method:	6010D		

Analyte	**OS Result (dry)**	**SD Result (dry)**	**RPD**	**RPD Limits**
	mg/kg	*mg/kg*	*%*	*%*
Arsenic	17.1	17.2	0.983	10
Barium	543	553	1.71	10
Boron	11.2	U	0.000	10
Cadmium	1.97	1.81	8.12	10
Chromium	45.0	44.2	1.80	10
Cobalt	12.1	11.8	2.36	10
Lead	1750	1690	3.20	10
Lithium	13.1	13.3	1.59	10
Selenium	U	U	0.000	10
Silver	1.75	1.62	7.36	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4189515-3 / 20250321122950	**SDG:**	L1837825
OS Sample / File ID:	L1837825-01 / 20250321122810	**Analytical Batch:**	WG2473633
Lab File ID:	20250321122950	**Dilution Factor:**	5
Instrument ID:	ICP16	**Matrix:**	Solid
Analytical Method:	6010D		

Analyte	**OS Result (dry)**	**SD Result (dry)**	**RPD**	**RPD Limits**
	mg/kg	*mg/kg*	*%*	*%*
Arsenic	2.04	U	0.000	10
Barium	111	118	6.28	10
Boron	U	U	0.000	10
Cadmium	0.328	U	0.000	10
Chromium	5.34	6.41	20.1	10
Cobalt	5.50	5.02	8.79	10
Lead	41.0	41.2	0.545	10
Lithium	2.01	4.52	0.000	10
Selenium	U	U	0.000	10
Silver	0.321	1.43	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1837825-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 6010D

Matrix: Solid **Prep Method:** 3051

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Cobalt	7440-48-4		228.6160	0.1770	1
Lead	7439-92-1		220.3530	0.3260	0.50
Lithium	7439-93-2		670.7840	0.4050	5
Selenium	7782-49-2		196.09	1.07	2
Silver	7440-22-4		328.0680	0.1270	1
Arsenic	7440-38-2		189.0420	0.8370	2
Barium	7440-39-3		233.5270	0.0850	0.50
Boron	7440-42-8		249.6780	4.50	20
Cadmium	7440-43-9		228.8020	0.0653	0.50
Chromium	7440-47-3		267.7160	0.2140	1

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1837825	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	02/03/25 09:04

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	200
POTASSIUM	500
SELENIUM	10
SILICON	100
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

ANALYSIS LOG

SDG:	L1837825	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Calibration Start Date:**	03/20/25 07:48
Analytical Run:	032025ICP16A	**Calibration End Date:**	03/20/25 07:58

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP160320250746	20250320074654	03/20/25 07:46		
CAL	STD1	20250320074832	03/20/25 07:48		
CAL	STD2	20250320075010	03/20/25 07:50		
CAL	STD3	20250320075147	03/20/25 07:51		
CAL	STD4	20250320075325	03/20/25 07:53		
CAL	STD5	20250320075503	03/20/25 07:55		
CAL	STD6	20250320075640	03/20/25 07:56		
ICV	ICP160320250800	20250320080007	03/20/25 08:00		
ICB	ICP160320250813	20250320081305	03/20/25 08:13		
ICVLL	ICP160320250817	20250320081759	03/20/25 08:17		
ICSA	ICP160320250819	20250320081937	03/20/25 08:19		
ICSAB	ICP160320250821	20250320082114	03/20/25 08:21		
CCV	ICP160320251219-2	20250320121949-2	03/20/25 12:19		
CCB	ICP160320251221-2	20250320122129-2	03/20/25 12:21		
BLANK	R4189013-1	20250320122312	03/20/25 12:23	1	WG2472738
LCS	R4189013-2	20250320122452	03/20/25 12:24	1	WG2472738
OS	L1836966-09	20250320122632	03/20/25 12:26		
L1836966-09	L1836966-09	20250320122632	03/20/25 12:26	1	WG2472738
SD	R4189013-3	20250320122812	03/20/25 12:28	5	WG2472738
PS	R4189013-4	20250320122951	03/20/25 12:29	1	WG2472738
MS	R4189013-5	20250320123131	03/20/25 12:31	1	WG2472738
MSD	R4189013-6	20250320123311	03/20/25 12:33	1	WG2472738
L1836966-10	L1836966-10	20250320123450	03/20/25 12:34	1	WG2472738
650_851_I_SO	L1837825-03	20250320123630	03/20/25 12:36	1	WG2472738
CCV	ICP160320251244	20250320124402	03/20/25 12:44		
CCB	ICP160320251245	20250320124542	03/20/25 12:45		
250_651_I_SO	L1837825-05	20250320124722	03/20/25 12:47	1	WG2472738
DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	L1837825-08	20250320124901	03/20/25 12:49	1	WG2472738
DAVIS_SCHOOL_WPLAYGROUND_I_SO	L1837825-09	20250320125042	03/20/25 12:50	1	WG2472738
DAVIS_SCHOOL_TRACK_I_SO	L1837825-10	20250320125222	03/20/25 12:52	1	WG2472738
L1836966-07	L1836966-07	20250320125402	03/20/25 12:54	1	WG2472738
L1836966-08	L1836966-08	20250320125543	03/20/25 12:55	1	WG2472738
MONTROSE_SCHOOL_DITCH_I_SO	L1837825-01	20250320125723	03/20/25 12:57	1	WG2472738
MONTROSE_SCHOOL_DRAINS_I_SO	L1837825-02	20250320125903	03/20/25 12:59	1	WG2472738
DAVIS_SCHOOL_DITCH_I_SO	L1837825-06	20250320130043	03/20/25 13:00	1	WG2472738
DAVIS_SCHOOL_DRAINS_I_SO	L1837825-07	20250320130223	03/20/25 13:02	1	WG2472738
CCV	ICP160320251304	20250320130403	03/20/25 13:04		
CCB	ICP160320251305	20250320130543	03/20/25 13:05		
CCVLL	ICP160320251519	20250320151942	03/20/25 15:19		
ICSA	ICP160320251521	20250320152123	03/20/25 15:21		
ICSAB	ICP160320251527	20250320152742	03/20/25 15:27		

ANALYSIS LOG

SDG:	L1837825	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Calibration Start Date:**	03/21/25 08:27
Analytical Run:	032125ICP16A	**Calibration End Date:**	03/21/25 08:37

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP160321250826	20250321082614	03/21/25 08:26		
CAL	STD1	20250321082752	03/21/25 08:27		
CAL	STD2	20250321082930	03/21/25 08:29		
CAL	STD3	20250321083108	03/21/25 08:31		
CAL	STD4	20250321083245	03/21/25 08:32		
CAL	STD5	20250321083423	03/21/25 08:34		
CAL	STD6	20250321083600	03/21/25 08:36		
ICV	ICP160321250855	20250321085537	03/21/25 08:55		
ICB	ICP160321250859	20250321085943	03/21/25 08:59		
ICVLL	ICP160321250904	20250321090436	03/21/25 09:04		
ICSA	ICP160321250906	20250321090614	03/21/25 09:06		
ICSAB	ICP160321250907	20250321090752	03/21/25 09:07		
CCV	ICP160321251221	20250321122130	03/21/25 12:21		
CCB	ICP160321251223	20250321122309	03/21/25 12:23		
BLANK	R4189515-1	20250321122451	03/21/25 12:24	1	WG2473633
LCS	R4189515-2	20250321122631	03/21/25 12:26	1	WG2473633
MONTROSE_SCHOOL_DITCH_I_SO	L1837825-01	20250321122810	03/21/25 12:28	1	WG2473633
SD	R4189515-3	20250321122950	03/21/25 12:29	5	WG2473633
PS	R4189515-4	20250321123129	03/21/25 12:31	1	WG2473633
MS	R4189515-5	20250321123308	03/21/25 12:33	1	WG2473633
MSD	R4189515-6	20250321123447	03/21/25 12:34	1	WG2473633
MONTROSE_SCHOOL_DRAINS_I_SO	L1837825-02	20250321123627	03/21/25 12:36	1	WG2473633
650_851_I_SO	L1837825-03	20250321123806	03/21/25 12:38	1	WG2473633
601_T_I_SO	L1837825-04	20250321123945	03/21/25 12:39	1	WG2473633
CCV	ICP160321251241	20250321124126	03/21/25 12:41		
CCB	ICP160321251243	20250321124305	03/21/25 12:43		
250_651_I_SO	L1837825-05	20250321124444	03/21/25 12:44	1	WG2473633
DAVIS_SCHOOL_DITCH_I_SO	L1837825-06	20250321124624	03/21/25 12:46	1	WG2473633
DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	L1837825-08	20250321124809	03/21/25 12:48	1	WG2473633
DAVIS_SCHOOL_WPLAYGROUND_I_SO	L1837825-09	20250321124948	03/21/25 12:49	1	WG2473633
DAVIS_SCHOOL_TRACK_I_SO	L1837825-10	20250321125128	03/21/25 12:51	1	WG2473633
DAVIS_SCHOOL_DUP_I_SO	L1837825-11	20250321125307	03/21/25 12:53	1	WG2473633
CCV	ICP160321251254	20250321125447	03/21/25 12:54		
CCB	ICP160321251256	20250321125627	03/21/25 12:56		
CCV	ICP160321251433	20250321143333	03/21/25 14:33		
CCB	ICP160321251435	20250321143513	03/21/25 14:35		
BLANK	R4189526-1	20250321143656	03/21/25 14:36	1	WG2473792
LCS	R4189526-2	20250321143836	03/21/25 14:38	1	WG2473792
OS	L1837138-01	20250321144017	03/21/25 14:40		
L1837138-01	L1837138-01	20250321144017	03/21/25 14:40	1	WG2473792
SD	R4189526-3	20250321144158	03/21/25 14:41	5	WG2473792
MS	R4189526-4	20250321144338	03/21/25 14:43	1	WG2473792
MSD	R4189526-5	20250321144519	03/21/25 14:45	1	WG2473792
MONTROSE_SCHOOL_DITCH_I_SO	L1837825-01	20250321144701	03/21/25 14:47	5	WG2473633
MS	R4189515-7	20250321144841	03/21/25 14:48	5	WG2473633
MSD	R4189515-8	20250321145022	03/21/25 14:50	5	WG2473633

ANALYSIS LOG

SDG:	L1837825	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Calibration Start Date:**	03/21/25 08:27
Analytical Run:	032125ICP16A	**Calibration End Date:**	03/21/25 08:37

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CCV	ICP160321251452	20250321145205	03/21/25 14:52		
CCB	ICP160321251453	20250321145346	03/21/25 14:53		
CCVLL	ICP160321251539	20250321153921	03/21/25 15:39		
CCVLL	ICP160321251543	20250321154343	03/21/25 15:43		
CCVLL	ICP160321251552	20250321155226	03/21/25 15:52		
ICSA	ICP160321251558	20250321155850	03/21/25 15:58		
ICSAB	ICP160321251600	20250321160033	03/21/25 16:00		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1837825	**Calibration (begin) date/time:**	03/20/25 07:48
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/20/25 07:58
Analytical Method:	6010D	**Analytical Run:**	032025ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.01115257	112	0.20	.2028828	101
BARIUM	0.0050	.005381323	108	0.10	.1019661	102
BORON	0.20	.1925299	96.30			
CADMIUM	0.0020	.001820458	91	0.10	.1020977	102
CHROMIUM	0.01	.01000355	100	0.20	.1987153	99.40
COBALT	0.01	.008927968	89.30	0.20	.1864137	93.20
LEAD	0.0050	.005526979	111	0.10	.0973154	97.30
LITHIUM	0.0150	.01677571	112	0.20	.1872676	93.60
SELENIUM	0.01	.01196831	120	0.20	.2037306	102
SILVER	0.0050	.004394418	87.90	0.10	.100149	100
File ID:		20250320074832			20250320075010	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1837825	**Calibration (begin) date/time:**	03/20/25 07:48
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/20/25 07:58
Analytical Method:	6010D	**Analytical Run:**	032025ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.4066688	102	1	1.010683	101
BARIUM	0.20	.2065225	103	0.50	.5163314	103
BORON	0.40	.3952316	98.80	1	1.000135	100
CADMIUM	0.20	.205207	103	0.50	.5078628	102
CHROMIUM	0.40	.4031876	101	1	1.016952	102
COBALT	0.40	.3820813	95.50	1	.9794915	97.90
LEAD	0.20	.1991425	99.60	0.50	.5002241	100
LITHIUM	0.40	.3763291	94.10	1	.9627455	96.30
SELENIUM	0.40	.4025851	101	1	1.006408	101
SILVER	0.20	.2047454	102	0.50	.5057494	101
File ID:		20250320075147			20250320075325	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1837825	**Calibration (begin) date/time:**	03/20/25 07:48
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/20/25 07:58
Analytical Method:	6010D	**Analytical Run:**	032025ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.046465	102	4	3.973283	99.30
BARIUM	1	1.025697	103	2	1.982317	99.10
BORON	2	2.025326	101	4	3.988154	99.70
CADMIUM	1	1.022967	102	2	1.985925	99.30
CHROMIUM	2	2.050131	103	4	3.970442	99.30
COBALT	2	2.005692	100	4	4.004755	100
LEAD	1	1.017375	102	2	1.991475	99.60
LITHIUM	2	1.957538	97.90	4	4.033542	101
SELENIUM	2	2.031664	102	4	3.982116	99.60
SILVER	1	1.010329	101	2	1.992918	99.60
File ID:		20250320075503			20250320075640	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1837825	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.009450952	94.50	0.20	.2024679	101
BARIUM	0.0050	.005525024	111	0.10	.1009626	101
BORON	0.20	.2006858	100			
CADMIUM	0.0020	.001846044	92.30	0.10	.1003898	100
CHROMIUM	0.01	.009238352	92.40	0.20	.1931434	96.60
COBALT	0.01	.008028498	80.30	0.20	.184132	92.10
LEAD	0.0050	.005306873	106	0.10	.09844949	98.40
LITHIUM	0.0150	.01743911	116	0.20	.1861196	93.10
SELENIUM	0.01	.008380011	83.80	0.20	.2045207	102
SILVER	0.0050	.005412618	108	0.10	.09865973	98.70
File ID:		20250321082752			20250321082930	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1837825	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.4118118	103	1	.967025	96.70
BARIUM	0.20	.2061333	103	0.50	.4837596	96.80
BORON	0.40	.4037297	101	1	.946158	94.60
CADMIUM	0.20	.2063865	103	0.50	.4797405	95.90
CHROMIUM	0.40	.3991954	99.80	1	.9358874	93.60
COBALT	0.40	.3853479	96.30	1	.92271	92.30
LEAD	0.20	.2011952	101	0.50	.4749542	95
LITHIUM	0.40	.3846565	96.20	1	.9284183	92.80
SELENIUM	0.40	.4096343	102	1	.9881575	98.80
SILVER	0.20	.2047549	102	0.50	.4846204	96.90
File ID:		20250321083108			20250321083245	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1837825	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.02905	101	4	3.992415	99.80
BARIUM	1	1.010855	101	2	1.99797	99.90
BORON	2	2.008322	100	4	4.008892	100
CADMIUM	1	1.002167	100	2	2.003323	100
CHROMIUM	2	1.991019	99.60	4	4.020944	101
COBALT	2	1.984644	99.20	4	4.029264	101
LEAD	1	1.003098	100	2	2.00467	100
LITHIUM	2	2.040229	102			
SELENIUM	2	2.047754	102	4	3.977898	99.40
SILVER	1	1.006216	101	2	2.000327	100
File ID:		20250321083423			20250321083600	

16A-IN

INITIAL CALIBRATION

SDG:	L1837825	**Calibration (begin) date/time:**	03/20/25 07:48
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/20/25 07:58
Analytical Method:	6010D	**Analytical Run:**	032025ICP16A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999882	202.0689	1.045391
BARIUM	233.527	8	5	0.999799	6159.635	-5.47774
BORON	249.678	8	5	0.999963	216.5253	0.721595
CADMIUM	228.802	8	5	0.999872	2133.003	9.045043
CHROMIUM	267.716	8	5	0.999857	2350.727	-6.732458
COBALT	228.616	8	5	0.999962	1130.998	-6.351761
LEAD	220.353	8	5	0.999941	475.6264	-0.452275
LITHIUM	670.784	8	5	0.999808	1096.06	-8.111396
SELENIUM	196.09	8	5	0.999946	156.0237	3.400602
SILVER	328.068	8	5	0.999967	4066.723	-15.98341

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16A-IN

INITIAL CALIBRATION

SDG:	L1837825	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999917	197.1366	1.067309
BARIUM	233.527	8	5	0.999934	6014.184	-8.157375
BORON	249.678	8	5	0.999869	208.6249	-0.152962
CADMIUM	228.802	8	5	0.999928	2125.431	8.82258
CHROMIUM	267.716	8	5	0.999821	2329.913	-8.855238
COBALT	228.616	8	5	0.999713	1087.384	-6.514733
LEAD	220.353	8	5	0.999898	464.8921	0.005844
LITHIUM	670.784	8	5	0.998841	1045.406	-7.197886
SELENIUM	196.09	8	5	0.999883	89.6181	0.057566
SILVER	328.068	8	5	0.999954	3920.261	-17.79079

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

Sample ID: CALBLK Units: mg/l
Analyzed: 03/20/25 07:46 Sequence: 2 Standard ID: 25C17417

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6594.111	6709.157	6580.650	6492.528
YTTRIUM	360.073	Axial	64174.37	64786.48	64340.90	63395.74
YTTRIUM	360.073	Radial	4913.190	4857.956	4939.545	4942.068
INDIUM	230.606	Axial	1403.378	1414.409	1405.104	1390.620

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	-2.66617	-4.407733	-0.5647875	-3.026016
ANTIMONY	206.833	Axial	0.2356723	0.3717111	0.8607521	-0.5254462
ARSENIC	189.042	Axial	1.046449	0.8380178	1.824296	0.4770342
BARIUM	233.527	Axial	-5.48834	-7.604735	-2.943380	-5.916908
BERYLLIUM	313.042	Radial	1.532720	4.079199	-1.299262	1.818222
BORON	249.678	Radial	0.7189882	1.179756	0.2314334	0.7457753
CADMIUM	228.802	Axial	9.032708	9.170944	6.340062	11.58712
CALCIUM	317.933	Radial	21.99578	22.20783	20.95338	22.82614
CALCIUM	373.690	Radial	0.7634870	-0.5138934	2.090967	0.7133880
CERIUM	535.353	Radial	14.71064	15.32717	13.75863	15.04613
CHROMIUM	267.716	Axial	-6.74678	-8.493742	-5.963616	-5.782981
COBALT	228.616	Axial	-6.35156	-6.889329	-5.508291	-6.657088
COPPER	324.754	Axial	-1.73847	2.425211	-3.510319	-4.130305
IRON	259.940	Radial	2.148747	3.138077	1.579074	1.729089
IRON	271.441	Radial	1.137496	1.592733	-0.2461079	2.065862
LANTHANUM	333.749	Radial	-1.24132	-1.941526	-1.324819	-0.4576368
LEAD	220.353	Axial	-0.4531183	-1.146460	0.4285148	-0.6414092
LITHIUM	670.784	Radial	-8.11521	-7.368563	-7.829327	-9.147747
MAGNESIUM	279.079	Radial	-3.24210	-3.595355	-4.506611	-1.624333
MANGANESE	257.610	Axial	-13.0123	-13.52401	-13.33194	-12.18100
MOLYBDENUM	202.030	Axial	-1.22472	-1.696753	-1.740677	-0.2367289
NICKEL	231.604	Axial	0.6307583	1.330185	0.3605531	0.2015368
PHOSPHORUS	177.495	Axial	1.165163	1.503378	1.229542	0.7625704
POTASSIUM	766.490	Radial	-31.7570	-34.40056	-30.96126	-29.90919
SELENIUM	196.090	Axial	3.412165	5.184174	1.826648	3.225672
SILICON	251.611	Axial	12.31957	11.19440	12.56168	13.20261
SILVER	328.068	Axial	-15.9622	-16.06546	-11.80287	-20.01838
SODIUM	589.592	Radial	-17.0399	-19.71437	-17.63459	-13.77094
SODIUM	818.326	Radial	5.458788	7.462648	7.382171	1.531544
STRONTIUM	421.552	Radial	5.190553	5.966989	2.228800	7.375871
SULFUR	182.034	Axial	3.705532	4.252337	3.713870	3.150390
THALLIUM	190.856	Axial	-1.26393	-0.5717926	-0.5835653	-2.636434
TIN	189.989	Axial	-0.9621181	-1.713140	-1.351272	0.1780572
TITANIUM	334.941	Radial	-2.80915	-2.644240	-2.719291	-3.063944
VANADIUM	292.402	Radial	-0.9475705	-0.009686229	-3.245567	0.4125416
ZINC	206.200	Axial	15.82539	14.44889	16.15300	16.87427

Sample ID: STD1 Units: mg/l
Analyzed: 03/20/25 07:48 Sequence: 3 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6543.109	6520.555	6545.058	6563.715
YTTRIUM	360.073	Axial	63491.39	63207.76	63737.94	63528.47
YTTRIUM	360.073	Radial	4857.660	4838.788	4879.266	4854.927
INDIUM	230.606	Axial	1356.406	1346.216	1361.426	1361.577

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	7.984426	6.633455	6.267907	11.05192
ANTIMONY	206.833	Axial	1.437647	1.172689	2.220291	0.9199613
ARSENIC	189.042	Axial	3.274015	2.621942	4.179548	3.020556
BARIUM	233.527	Axial	27.45624	26.77074	27.78469	27.81328
BERYLLIUM	313.042	Radial	35.70472	36.38241	36.87205	33.85970
BORON	249.678	Radial	41.93212	41.48029	43.27562	41.04044
CADMIUM	228.802	Axial	12.82878	12.66579	12.38816	13.43238
CALCIUM	317.933	Radial	254.4433	253.4150	254.4765	255.4384
CHROMIUM	267.716	Axial	16.65390	15.83294	17.85646	16.27229
COBALT	228.616	Axial	3.621666	3.241549	5.188007	2.435440
COPPER	324.754	Axial	46.46725	49.43878	47.37129	42.59168
IRON	259.940	Radial	27.48939	26.03975	28.69686	27.73156
LEAD	220.353	Axial	2.101871	2.555971	2.170096	1.579546
LITHIUM	670.784	Radial	10.16021	8.241163	9.278065	12.96139
MAGNESIUM	279.079	Radial	88.87367	89.92741	89.48876	87.20484
MANGANESE	257.610	Axial	203.7466	199.4619	205.5882	206.1898
MOLYBDENUM	202.030	Axial	2.124020	2.116099	2.570179	1.685784
NICKEL	231.604	Axial	10.00006	7.739202	10.33762	11.92337
PHOSPHORUS	177.495	Axial	20.27159	20.08565	20.46052	20.26861
POTASSIUM	766.490	Radial	74.46339	73.76933	77.71615	71.90468
SELENIUM	196.090	Axial	5.229349	4.099188	5.541126	6.047734
SILICON	251.611	Axial	214.4523	213.2442	215.2951	214.8175
SILVER	328.068	Axial	1.866394	1.333258	0.1656600	4.100266
SODIUM	589.592	Radial	374.0070	373.9697	373.6121	374.4393
STRONTIUM	421.552	Radial	118.2579	119.1286	117.7513	117.8938
SULFUR	182.034	Axial	52.89561	52.31085	52.48917	53.88681
THALLIUM	190.856	Axial	0.6208587	0.8474195	0.3742343	0.6409225
TIN	189.989	Axial	19.64047	18.40018	18.78431	21.73692
TITANIUM	334.941	Radial	82.49701	82.94022	82.00150	82.54930
VANADIUM	292.402	Radial	10.44047	10.21087	12.12973	8.980793
ZINC	206.200	Axial	139.9039	139.9792	140.5034	139.2292

Sample ID: STD2 Units: mg/l
Analyzed: 03/20/25 07:50 Sequence: 4 Standard ID: 25C19782

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6489.850	6512.686	6576.715	6380.151
YTTRIUM	360.073	Axial	62552.51	62389.75	63587.01	61680.77
YTTRIUM	360.073	Radial	4821.674	4833.836	4792.676	4838.512
INDIUM	230.606	Axial	1318.815	1309.727	1340.862	1305.855

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	110.6389	112.0083	109.0613	110.8470
ANTIMONY	206.833	Axial	13.54104	12.89966	13.84014	13.88331
ARSENIC	189.042	Axial	41.36773	41.02873	41.34032	41.73414
BARIUM	233.527	Axial	612.7363	614.6482	619.5040	604.0566
BERYLLIUM	313.042	Radial	655.8401	657.6811	649.6059	660.2333
CADMIUM	228.802	Axial	223.2363	223.7899	226.6635	219.2555
CALCIUM	317.933	Radial	2356.789	2369.578	2334.218	2366.571
CHROMIUM	267.716	Axial	453.1378	451.6973	463.6640	444.0520
COBALT	228.616	Axial	192.1414	192.3919	193.0157	191.0167
COPPER	324.754	Axial	904.1178	901.5853	908.2736	902.4944
IRON	259.940	Radial	503.5480	503.1011	497.3316	510.2112
LEAD	220.353	Axial	43.05581	42.26790	42.02138	44.87815
LITHIUM	670.784	Radial	193.4734	195.2482	192.0660	193.1062
MAGNESIUM	279.079	Radial	177.7109	178.3939	177.5377	177.2010
MANGANESE	257.610	Axial	4385.213	4405.915	4394.949	4354.776
MOLYBDENUM	202.030	Axial	33.79021	33.66786	35.54367	32.15910
NICKEL	231.604	Axial	180.4261	182.9848	179.5386	178.7550
PHOSPHORUS	177.495	Axial	38.59987	38.82419	39.23953	37.73589
POTASSIUM	766.490	Radial	954.1206	959.4800	949.8877	952.9941
SELENIUM	196.090	Axial	34.62475	34.34895	34.73756	34.78773
SILICON	251.611	Axial	414.9893	413.1314	425.6523	406.1842
SILVER	328.068	Axial	381.3212	385.0533	377.5016	381.4086
SODIUM	589.592	Radial	3791.342	3780.902	3783.360	3809.763
STRONTIUM	421.552	Radial	2193.159	2203.981	2188.149	2187.346
THALLIUM	190.856	Axial	39.96744	39.71127	40.92964	39.26141
TIN	189.989	Axial	40.50587	40.31087	41.52071	39.68604
TITANIUM	334.941	Radial	339.9075	342.3278	336.3095	341.0851
VANADIUM	292.402	Radial	124.3614	126.7783	124.6071	121.6987
ZINC	206.200	Axial	493.6545	491.8840	491.0413	498.0382

Sample ID: STD3 Units: mg/l
Analyzed: 03/20/25 07:51 Sequence: 5 Standard ID: 25C19783

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6501.059	6545.082	6472.566	6485.529
YTTRIUM	360.073	Axial	62326.97	62637.58	62394.07	61949.25
YTTRIUM	360.073	Radial	4832.946	4842.668	4838.765	4817.406
INDIUM	230.606	Axial	1308.353	1314.246	1308.712	1302.100

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	228.7539	229.5703	227.0014	229.6901
ANTIMONY	206.833	Axial	27.64248	27.87124	27.85684	27.19935
ARSENIC	189.042	Axial	82.04155	81.13365	81.91928	83.07172
BARIUM	233.527	Axial	1248.746	1256.003	1245.697	1244.538
BERYLLIUM	313.042	Radial	1319.258	1323.291	1315.581	1318.902
BORON	249.678	Radial	84.88876	85.01826	84.36272	85.28532
CADMIUM	228.802	Axial	440.4326	439.3172	442.7090	439.2715
CALCIUM	317.933	Radial	4714.668	4731.731	4693.440	4718.832
CHROMIUM	267.716	Axial	927.7625	931.7824	927.3015	924.2037
COBALT	228.616	Axial	396.9481	399.0880	394.6104	397.1459
COPPER	324.754	Axial	1825.033	1829.223	1815.149	1830.727
IRON	259.940	Radial	1018.422	1009.183	1005.236	1040.846
LEAD	220.353	Axial	87.87773	87.43885	86.72447	89.46987
LITHIUM	670.784	Radial	397.7744	402.8479	400.4099	390.0654
MAGNESIUM	279.079	Radial	358.5100	358.8963	358.6521	357.9816
MANGANESE	257.610	Axial	8892.684	8935.555	8898.268	8844.229
MOLYBDENUM	202.030	Axial	67.44038	67.36425	68.37233	66.58454
NICKEL	231.604	Axial	361.4573	364.8754	359.0611	360.4353
PHOSPHORUS	177.495	Axial	76.94191	77.27365	76.13155	77.42052
POTASSIUM	766.490	Radial	1934.109	1938.700	1921.565	1942.063
SELENIUM	196.090	Axial	65.27850	65.45757	64.61545	65.76248
SILICON	251.611	Axial	816.8226	819.6377	818.3857	812.4443
SILVER	328.068	Axial	793.1278	792.0904	792.4658	794.8273
SODIUM	589.592	Radial	7565.598	7550.578	7535.729	7610.488
SODIUM	818.326	Radial	182.9269	182.9827	183.7363	182.0616
STRONTIUM	421.552	Radial	4377.156	4416.670	4381.895	4332.904
SULFUR	182.034	Axial	100.7369	100.2426	99.91296	102.0552
THALLIUM	190.856	Axial	80.69334	78.89894	81.05207	82.12900
TIN	189.989	Axial	81.51529	82.00105	80.45996	82.08485
TITANIUM	334.941	Radial	680.7034	683.8785	679.0641	679.1677
VANADIUM	292.402	Radial	246.8774	247.7641	244.2949	248.5731
ZINC	206.200	Axial	1000.796	1008.824	990.0135	1003.550

Sample ID: STD4 Units: mg/l
Analyzed: 03/20/25 07:53 Sequence: 6 Standard ID: 25C19784

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6643.475	6635.571	6626.954	6667.901
YTTRIUM	360.073	Axial	62642.92	62386.19	62605.89	62936.67
YTTRIUM	360.073	Radial	4790.631	4784.687	4820.686	4766.520
INDIUM	230.606	Axial	1304.610	1295.434	1304.078	1314.319

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	567.4330	566.6951	570.9679	564.6361
ANTIMONY	206.833	Axial	69.59533	68.09331	70.61685	70.07584
ARSENIC	189.042	Axial	206.8110	207.7976	204.6922	207.9434
BARIUM	233.527	Axial	3198.693	3199.175	3192.113	3204.791
BERYLLIUM	313.042	Radial	3301.441	3287.083	3326.703	3290.537
BORON	249.678	Radial	211.8557	210.8724	213.3295	211.3653
CADMIUM	228.802	Axial	1100.492	1100.506	1098.454	1102.515
CALCIUM	317.933	Radial	11570.44	11558.71	11668.75	11483.85
CALCIUM	373.690	Radial	5221.693	5202.913	5270.577	5191.590
CHROMIUM	267.716	Axial	2401.692	2380.944	2408.453	2415.681
COBALT	228.616	Axial	1023.906	1023.344	1021.495	1026.880
COPPER	324.754	Axial	4508.742	4509.600	4509.654	4506.970
IRON	259.940	Radial	2499.520	2471.533	2520.158	2506.868
IRON	271.441	Radial	213.2835	212.7982	214.2422	212.8102
LEAD	220.353	Axial	220.7521	220.0605	220.1385	222.0573
LITHIUM	670.784	Radial	1021.030	1032.866	1032.112	998.1116
MAGNESIUM	279.079	Radial	891.8737	885.9253	899.0450	890.6507
MANGANESE	257.610	Axial	22762.43	22783.91	22717.63	22785.74
MOLYBDENUM	202.030	Axial	170.6830	171.1268	170.6994	170.2226
NICKEL	231.604	Axial	918.2724	913.1101	921.4600	920.2469
PHOSPHORUS	177.495	Axial	193.4362	195.4177	191.7609	193.1299
POTASSIUM	766.490	Radial	4835.116	4818.053	4857.402	4829.895
SELENIUM	196.090	Axial	161.6274	162.1773	159.4815	163.2234
SILICON	251.611	Axial	2084.174	2065.733	2090.027	2096.764
SILVER	328.068	Axial	1992.020	2001.782	1982.724	1991.555
SODIUM	818.326	Radial	443.1795	441.5710	445.8867	442.0809
STRONTIUM	421.552	Radial	10815.76	10884.58	10963.57	10599.13
SULFUR	182.034	Axial	251.7591	253.3326	250.6944	251.2503
THALLIUM	190.856	Axial	202.8431	205.4958	202.3422	200.6914
TIN	189.989	Axial	206.0437	206.9355	204.5206	206.6750
TITANIUM	334.941	Radial	1719.259	1706.467	1721.898	1729.411
VANADIUM	292.402	Radial	614.9494	613.7309	618.1762	612.9410
ZINC	206.200	Axial	2524.143	2534.651	2503.003	2534.774

Sample ID: STD5 Units: mg/l
Analyzed: 03/20/25 07:55 Sequence: 7 Standard ID: 25C19785

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6569.752	6519.516	6619.838	6569.903
YTTRIUM	360.073	Axial	61412.72	60556.63	61867.49	61814.03
YTTRIUM	360.073	Radial	4823.223	4817.872	4785.406	4866.390
INDIUM	230.606	Axial	1264.196	1251.148	1265.237	1276.203

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1161.858	1167.946	1154.575	1163.053
ANTIMONY	206.833	Axial	136.9345	137.1647	135.8434	137.7953
ARSENIC	189.042	Axial	413.0322	411.6323	414.5217	412.9426
BARIUM	233.527	Axial	6289.043	6264.777	6329.436	6272.916
BERYLLIUM	313.042	Radial	6671.458	6685.294	6624.987	6704.093
BORON	249.678	Radial	431.2055	431.8322	428.4169	433.3675
CADMIUM	228.802	Axial	2182.918	2163.037	2186.212	2199.505
CALCIUM	373.690	Radial	10457.63	10440.24	10400.40	10532.26
CHROMIUM	267.716	Axial	4794.750	4739.882	4798.185	4846.184
COBALT	228.616	Axial	2037.723	2018.429	2040.885	2053.854
COPPER	324.754	Axial	8786.377	8683.511	8832.202	8843.417
IRON	271.441	Radial	430.8959	431.8498	429.3344	431.5035
LEAD	220.353	Axial	435.4851	432.9759	433.9146	439.5647
LITHIUM	670.784	Radial	2098.425	2093.239	2066.419	2135.618
MAGNESIUM	279.079	Radial	1809.537	1814.565	1804.349	1809.698
MANGANESE	257.610	Axial	45091.86	44771.54	45179.87	45324.16
MOLYBDENUM	202.030	Axial	338.1275	337.9294	336.5508	339.9022
NICKEL	231.604	Axial	1821.521	1807.554	1825.473	1831.537
PHOSPHORUS	177.495	Axial	384.0530	381.4395	385.3255	385.3940
POTASSIUM	766.490	Radial	9774.000	9743.467	9748.955	9829.578
SELENIUM	196.090	Axial	319.2034	317.0068	321.3751	319.2284
SILICON	251.611	Axial	4123.289	4067.313	4130.367	4172.185
SILVER	328.068	Axial	3916.260	3913.659	3943.310	3891.811
SODIUM	818.326	Radial	888.9628	896.5198	877.3268	893.0419
STRONTIUM	421.552	Radial	21587.83	21687.81	21204.99	21870.70
SULFUR	182.034	Axial	502.8174	495.8922	504.3184	508.2416
THALLIUM	190.856	Axial	393.2970	391.3857	396.9666	391.5385
TIN	189.989	Axial	402.2845	397.9033	403.1703	405.7799
TITANIUM	334.941	Radial	3495.230	3502.293	3475.412	3507.984
VANADIUM	292.402	Radial	1252.625	1260.465	1243.763	1253.648
ZINC	206.200	Axial	4961.747	4981.233	5005.769	4898.238

Sample ID: STD6 Units: mg/l
Analyzed: 03/20/25 07:56 Sequence: 8 Standard ID: 25C19786

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6501.896	6545.960	6455.105	6504.622
YTTRIUM	360.073	Axial	60061.74	60780.16	59588.75	59816.30
YTTRIUM	360.073	Radial	4789.452	4775.318	4821.195	4771.843
INDIUM	230.606	Axial	1221.874	1230.158	1219.854	1215.611

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	2280.576	2268.799	2296.839	2276.090
ANTIMONY	206.833	Axial	261.6467	262.6257	259.5708	262.7435
ARSENIC	189.042	Axial	792.6810	797.2750	785.8653	794.9026
BARIUM	233.527	Axial	12034.12	12108.40	11969.00	12024.97
BERYLLIUM	313.042	Radial	12947.76	12960.75	12976.96	12905.58
BORON	249.678	Radial	842.4927	837.2805	848.6647	841.5330
CADMIUM	228.802	Axial	4185.606	4201.833	4168.982	4186.001
CALCIUM	373.690	Radial	20315.26	20272.46	20441.45	20231.88
CERIUM	535.353	Radial	897.5069	900.6593	895.4807	896.3807
CHROMIUM	267.716	Axial	9196.200	9276.132	9168.792	9143.677
COBALT	228.616	Axial	3938.065	3977.758	3906.608	3929.831
COPPER	324.754	Axial	16680.64	16855.14	16574.05	16612.75
IRON	271.441	Radial	831.4597	829.3216	839.1487	825.9089
LANTHANUM	333.749	Radial	5365.013	5351.575	5443.294	5300.169
LEAD	220.353	Axial	824.2897	827.7466	821.1731	823.9494
LITHIUM	670.784	Radial	4301.728	4222.525	4327.098	4355.563
MAGNESIUM	279.079	Radial	3509.242	3508.241	3525.837	3493.647
MANGANESE	257.610	Axial	86974.40	87924.64	86223.68	86774.87
MOLYBDENUM	202.030	Axial	647.9077	648.3607	645.9721	649.3905
NICKEL	231.604	Axial	3523.236	3541.463	3511.106	3517.138
PHOSPHORUS	177.495	Axial	745.0971	749.3448	740.8645	745.0819
POTASSIUM	766.490	Radial	18976.50	18907.39	19084.14	18937.98
SELENIUM	196.090	Axial	615.9570	617.6100	614.0588	616.2021
SILICON	251.611	Axial	7834.199	7873.791	7846.351	7782.455
SILVER	328.068	Axial	7570.555	7700.091	7469.682	7541.892
SODIUM	818.326	Radial	1748.849	1753.632	1737.340	1755.576
STRONTIUM	421.552	Radial	42064.40	41432.37	42257.91	42502.93
SULFUR	182.034	Axial	976.6625	986.0602	969.2973	974.6298
THALLIUM	190.856	Axial	733.3700	736.3040	728.4362	735.3699
TIN	189.989	Axial	771.8287	776.4071	767.2292	771.8497
TITANIUM	334.941	Radial	6746.810	6739.797	6740.843	6759.789
VANADIUM	292.402	Radial	2447.150	2439.521	2465.753	2436.177
ZINC	206.200	Axial	9458.322	9535.136	9371.883	9467.946

Sample ID: ICV Units: mg/l
Analyzed: 03/20/25 08:00 Sequence: 10 Standard ID: 25C19787

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	6419.437	6336.286	6391.139	6462.693	6487.628
YTTRIUM	360.073	Axial	61311.89	60389.67	61516.97	61401.54	61939.36
YTTRIUM	360.073	Radial	4773.534	4829.889	4718.378	4756.129	4789.742
INDIUM	230.606	Axial	1288.288	1271.474	1288.148	1291.045	1302.487

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	579.5012	10.06334	10.04242	10.03808	10.13280	10.04005
ANTIMONY	206.833	Axial	133.4293	1.023136	1.022327	1.033686	1.013698	1.022831
ARSENIC	189.042	Axial	206.0679	1.042424	1.046964	1.052450	1.035549	1.034732
BARIUM	233.527	Axial	6265.667	1.045806	1.047529	1.051600	1.037539	1.046555
BERYLLIUM	313.042	Radial	16432.87	1.013303	1.012934	1.015664	1.010285	1.014329
BORON	249.678	Radial	210.3223	0.9964394	1.002293	1.001725	0.9931446	0.9885947
CADMIUM	228.802	Axial	2171.247	1.041399	1.041475	1.045476	1.037613	1.041034
CALCIUM	317.933	Radial	2354.265	10.12560	10.09370	10.20658	10.09400	10.10813
CHROMIUM	267.716	Axial	2347.567	1.028649	1.019614	1.030395	1.030686	1.033900
COBALT	228.616	Axial	987.7635	0.9570010	0.9574920	0.9599037	0.9557693	0.9548391
COPPER	324.754	Axial	4602.469	1.047396	1.051774	1.047575	1.044624	1.045612
IRON	259.940	Radial	2566.389	10.29478	10.12707	10.45254	10.34314	10.25635
LEAD	220.353	Axial	439.1690	1.006807	1.008877	1.013076	1.002288	1.002986
LITHIUM	670.784	Radial	1004.595	0.9507769	0.9477451	0.9512701	0.9523766	0.9517158
MAGNESIUM	279.079	Radial	893.7429	10.42146	10.36671	10.45941	10.44946	10.41025
MANGANESE	257.610	Axial	21923.57	1.015245	1.015358	1.022378	1.007165	1.016077
MOLYBDENUM	202.030	Axial	698.4352	1.053512	1.052678	1.061809	1.052584	1.046975
NICKEL	231.604	Axial	904.8685	0.9755702	0.9780447	0.9819605	0.9742373	0.9680385
PHOSPHORUS	177.495	Axial	187.5566	1.010945	1.017219	1.007539	1.008752	1.010270
POTASSIUM	766.490	Radial	970.7198	10.51148	10.48530	10.64491	10.44836	10.46734
SELENIUM	196.090	Axial	157.7810	1.017006	1.019900	1.021986	1.001928	1.024209
SILICON	251.611	Axial	1036.685	1.020622	1.014766	1.008145	1.027587	1.031988
SILVER	328.068	Axial	3843.360	0.9932258	1.012613	0.9970617	0.9785422	0.9846860
SODIUM	589.592	Radial	3870.314	10.36545	10.32756	10.37562	10.39726	10.36135
STRONTIUM	421.552	Radial	4408.307	0.4179696	0.4202034	0.4157344	0.4168211	0.4191194
SULFUR	182.034	Axial	499.5447	10.34387	10.40913	10.17883	10.34532	10.44222
THALLIUM	190.856	Axial	202.6610	1.042946	1.054375	1.037139	1.040607	1.039663
TIN	189.989	Axial	411.3457	1.010263	1.010721	1.006256	1.008707	1.015369
TITANIUM	334.941	Radial	1720.003	1.017733	1.008881	1.024783	1.014605	1.022663
VANADIUM	292.402	Radial	613.2054	1.003255	0.9991533	1.006935	1.003029	1.003905
ZINC	206.200	Axial	2453.749	1.036808	1.047807	1.064256	1.023866	1.011302
CERIUM	535.353	Radial	15.21506	0.01069805	-0.03466997	0.07339267	-0.02605431	0.03012380
LANTHANUM	333.749	Radial	-7.50900	-0.01176974	-0.01489745	-0.01278510	-0.008869412	-0.01052702

Sample ID: ICB Units: mg/l
Analyzed: 03/20/25 08:13 Sequence: 11

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6549.575	6544.816	6543.131	6560.778
YTTRIUM	360.073	Axial	63586.68	63670.33	63203.61	63886.11
YTTRIUM	360.073	Radial	4850.626	4834.102	4845.929	4871.845
INDIUM	230.606	Axial	1391.620	1392.507	1382.194	1400.161

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.80505	-0.03676498	-0.01188346	-0.05239890	-0.04601259
ANTIMONY	206.833	Axial	0.4169874	0.001407827	0.005231936	-0.003289650	0.002281195
ARSENIC	189.042	Axial	1.134862	0.0004784904	-0.003221507	0.001069103	0.003587876
BARIUM	233.527	Axial	-4.90742	0.00008722729	0.0001985250	0.00004910431	0.00001405254
BERYLLIUM	313.042	Radial	1.828314	0.00001849897	0.0001864575	-0.00009816070	-0.00003279991
BORON	249.678	Radial	1.139387	0.002001442	0.006755633	-0.002652998	0.001901692
CADMIUM	228.802	Axial	8.665463	-0.0001503468	0.00002450362	-0.0003265318	-0.0001490123
CALCIUM	317.933	Radial	22.16020	0.001895850	0.003659876	0.003541752	-0.001514079
CERIUM	535.353	Radial	13.51326	-0.01133809	-0.001278070	-0.02496795	-0.007768235
CHROMIUM	267.716	Axial	-8.22886	-0.0006614655	-0.001792968	-0.0008536968	0.0006622683
COBALT	228.616	Axial	-6.65391	-0.0003204761	0.0009829681	-0.001715987	-0.0002284099
COPPER	324.754	Axial	-3.62502	-0.0004151091	0.0002678385	-0.001325573	-0.0001875925
IRON	259.940	Radial	2.094698	-0.0001245914	0.001990379	-0.001446824	-0.0009173296
LANTHANUM	333.749	Radial	-1.12053	0.0002030100	0.001251431	-0.000001898850	-0.0006405017
LEAD	220.353	Axial	-0.9852114	-0.001132932	-0.002288247	0.0005355935	-0.001646143
LITHIUM	670.784	Radial	-9.64494	-0.001499490	0.0007114239	0.002668429	-0.007878322
MAGNESIUM	279.079	Radial	-3.23501	-0.0003692133	-0.0007366731	-0.003052493	0.002681526
MANGANESE	257.610	Axial	-11.9848	0.00004244117	-0.00001479752	0.0001295013	0.00001261967
MOLYBDENUM	202.030	Axial	-0.9473700	0.0003846420	-0.001108408	-0.0002877267	0.002550060
NICKEL	231.604	Axial	1.800628	0.001175604	0.003086657	0.0001371593	0.0003029976
PHOSPHORUS	177.495	Axial	1.214749	0.0003247187	0.001496629	-0.001394055	0.0008715817
POTASSIUM	766.490	Radial	-26.2943	0.05242390	0.06832320	0.03498424	0.05396425
SELENIUM	196.090	Axial	3.206221	-0.001097117	0.008546269	0.0001861336	-0.01202375
SILICON	251.611	Axial	10.28775	-0.001845925	-0.002801667	-0.0003319006	-0.002404206
SILVER	328.068	Axial	-14.6642	0.0002925576	0.0009329646	0.0005103682	-0.0005656598
SODIUM	589.592	Radial	-13.0003	0.01009518	0.01721395	0.01114162	0.001929982
STRONTIUM	421.552	Radial	6.620387	0.0001387975	0.00004125527	-0.00002993661	0.0004050739
SULFUR	182.034	Axial	3.382444	-0.005978676	0.0002367673	-0.004781747	-0.01339105
THALLIUM	190.856	Axial	-0.3688192	0.004229754	0.006909368	0.005482670	0.0002972233
TIN	189.989	Axial	-0.4448399	0.001135001	0.001669283	-0.0009115896	0.002647311
TITANIUM	334.941	Radial	-3.01200	-0.0001385308	0.00002433366	-0.00001446336	-0.0004254628
VANADIUM	292.402	Radial	-2.20745	-0.002056976	-0.006205464	0.001567375	-0.001532839
ZINC	206.200	Axial	16.32390	0.0002456441	0.0001595700	0.0005202938	0.00005706848

Sample ID: ICVLL Units: mg/l
Analyzed: 03/20/25 08:17 Sequence: 14 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6485.438	6467.017	6465.499	6523.798
YTTRIUM	360.073	Axial	62741.60	62640.21	62619.64	62964.96
YTTRIUM	360.073	Radial	4841.500	4836.667	4893.018	4794.815
INDIUM	230.606	Axial	1342.314	1334.860	1339.161	1352.923

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	6.919517	0.1628629	0.1542345	0.1707170	0.1636372
ANTIMONY	206.833	Axial	1.797701	0.01196308	0.01404300	0.01864030	0.003205956
ARSENIC	189.042	Axial	2.679311	0.008316257	0.01008124	0.009306932	0.005560595
BARIUM	233.527	Axial	25.86686	0.005159642	0.004859204	0.005640259	0.004979463
BERYLLIUM	313.042	Radial	34.70694	0.002017147	0.001943580	0.002114765	0.001993096
BORON	249.678	Radial	41.75609	0.1923988	0.1906857	0.1887527	0.1977581
CADMIUM	228.802	Axial	12.76827	0.001845897	0.001927976	0.001785777	0.001823937
CALCIUM	317.933	Radial	247.8846	0.9680470	0.9636043	0.9643774	0.9761594
CHROMIUM	267.716	Axial	13.17037	0.008562226	0.008068701	0.009600976	0.008017001
COBALT	228.616	Axial	4.224715	0.009519721	0.009242842	0.009398228	0.009918092
COPPER	324.754	Axial	37.45569	0.008709264	0.008780071	0.008812696	0.008535026
IRON	259.940	Radial	27.86809	0.1019123	0.1091650	0.09648839	0.1000837
LEAD	220.353	Axial	1.437653	0.004107582	0.004487924	0.002590813	0.005244010
LITHIUM	670.784	Radial	7.773904	0.01460937	0.01327027	0.01351535	0.01704248
MAGNESIUM	279.079	Radial	88.17578	1.046774	1.036562	1.050685	1.053076
MANGANESE	257.610	Axial	201.6686	0.009823853	0.009738081	0.009710725	0.01002275
MOLYBDENUM	202.030	Axial	1.771374	0.004426788	0.005749671	0.003786689	0.003744003
NICKEL	231.604	Axial	10.02241	0.009759712	0.008942628	0.01215164	0.008184872
PHOSPHORUS	177.495	Axial	20.00370	0.1012175	0.09346356	0.1018734	0.1083155
POTASSIUM	766.490	Radial	72.85316	1.077812	1.099143	1.064353	1.069941
SELENIUM	196.090	Axial	5.151894	0.01175729	0.008836815	0.007746095	0.01868895
SILICON	251.611	Axial	210.5828	0.1932053	0.1951254	0.1924349	0.1920557
SILVER	328.068	Axial	4.820804	0.005143825	0.005336463	0.005526167	0.004568845
SODIUM	589.592	Radial	373.1524	1.025288	1.020641	1.031876	1.023347
STRONTIUM	421.552	Radial	116.3802	0.01041318	0.01027293	0.01049545	0.01047115
SULFUR	182.034	Axial	52.47567	1.008196	1.003790	0.9979713	1.022826
THALLIUM	190.856	Axial	0.6139576	0.008982004	0.005964433	0.01313322	0.007848356
TIN	189.989	Axial	21.16145	0.05193302	0.05214991	0.05339873	0.05025042
TITANIUM	334.941	Radial	84.25149	0.05068788	0.05048039	0.05024351	0.05133974
VANADIUM	292.402	Radial	10.58271	0.01852914	0.01747072	0.02079822	0.01731848
ZINC	206.200	Axial	129.1599	0.04779601	0.04719180	0.04817173	0.04802450
CERIUM	535.353	Radial	10.48526	-0.04514680	-0.05221995	-0.01619503	-0.06702540
LANTHANUM	333.749	Radial	-0.6478522	0.001070851	-0.001610702	0.001815956	0.003007300

Sample ID: ICSA Units: mg/l
Analyzed: 03/20/25 08:19 Sequence: 15 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6171.422	6170.388	6102.933	6240.944
YTTRIUM	360.073	Axial	57311.51	57455.67	56796.74	57682.13
YTTRIUM	360.073	Radial	4701.975	4708.190	4691.218	4706.517
INDIUM	230.606	Axial	1130.473	1134.190	1124.291	1132.938

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28760.76	504.8245	503.3110	506.0146	505.1479
ANTIMONY	206.833	Axial	0.1741803	-0.0004012494	0.005760628	-0.01195538	0.004991005
ARSENIC	189.042	Axial	-3.11530	-0.02166180	-0.01848855	-0.02534676	-0.02115008
BARIUM	233.527	Axial	7.724643	0.002228665	0.002138700	0.002194230	0.002353065
BERYLLIUM	313.042	Radial	10.36984	0.0005565130	0.0006284298	0.0005400711	0.0005010381
BORON	249.678	Radial	-7.20321	-0.03809212	-0.03317584	-0.03555108	-0.04554946
CADMIUM	228.802	Axial	3.786355	-0.002343317	-0.002444532	-0.002225344	-0.002360075
CALCIUM	373.690	Radial	49902.18	507.1498	504.0736	508.2126	509.1632
CERIUM	535.353	Radial	13.48693	-0.006899404	0.006515627	-0.03493430	0.007720462
CHROMIUM	267.716	Axial	-17.1685	-0.004937087	-0.006376865	-0.003846442	-0.004587956
COBALT	228.616	Axial	-5.51075	-0.0004358077	0.0006586145	-0.001512283	-0.0004537549
COPPER	324.754	Axial	46.54978	0.01171203	0.01327432	0.01150686	0.01035490
IRON	271.441	Radial	4074.500	201.8544	200.7018	202.2731	202.5884
LANTHANUM	333.749	Radial	-4.14522	-0.005605225	-0.004758829	-0.004713791	-0.007343057
LEAD	220.353	Axial	0.0009234005	0.0009522821	0.003601066	0.0009310703	-0.001675290
LITHIUM	670.784	Radial	-6.87535	0.0008420185	0.003860446	-0.002444689	0.001110299
MAGNESIUM	279.079	Radial	43874.14	517.5748	517.6082	517.6749	517.4414
MANGANESE	257.610	Axial	-168.912	-0.007546061	-0.007447944	-0.007669474	-0.007520764
MOLYBDENUM	202.030	Axial	-2.05741	-0.001443624	-0.002174821	-0.001838300	-0.0003177493
NICKEL	231.604	Axial	2.685077	0.002680541	0.001518400	0.002993713	0.003529510
PHOSPHORUS	177.495	Axial	1.229186	0.0008104356	-0.001264579	0.002955678	0.0007402071
POTASSIUM	766.490	Radial	-14.2297	0.1723407	0.1827119	0.1504864	0.1838238
SELENIUM	196.090	Axial	-0.0002243910	-0.02188909	-0.02968554	-0.03026319	-0.005718554
SILICON	251.611	Axial	6.813088	-0.004463447	-0.005294550	-0.002894996	-0.005200796
SILVER	328.068	Axial	3.037786	0.004767696	0.004166293	0.005109336	0.005027459
SODIUM	589.592	Radial	13.61016	0.08104788	0.08726476	0.08978528	0.06609360
STRONTIUM	421.552	Radial	70.60691	0.006325379	0.006325265	0.006362744	0.006288129
SULFUR	182.034	Axial	3.750272	0.006239561	0.003396413	0.008642168	0.006680101
THALLIUM	190.856	Axial	-2.48305	-0.008521339	-0.008669006	-0.01222010	-0.004674916
TIN	189.989	Axial	-0.1889575	0.001621885	0.002030404	0.0007164849	0.002118764
TITANIUM	334.941	Radial	-10.8153	-0.004874509	-0.004537187	-0.004878717	-0.005207623
VANADIUM	292.402	Radial	1.785081	0.004457784	0.001745780	0.005221868	0.006405704
ZINC	206.200	Axial	35.89749	0.009316939	0.008850026	0.009360502	0.009740287

Sample ID: ICSAB Units: mg/l
Analyzed: 03/20/25 08:21 Sequence: 16 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6196.104	6167.186	6208.168	6212.959
YTTRIUM	360.073	Axial	57262.22	57248.73	57080.70	57457.22
YTTRIUM	360.073	Radial	4684.369	4706.659	4691.464	4654.986
INDIUM	230.606	Axial	1131.424	1128.616	1134.033	1131.623

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28923.30	509.5888	508.2922	509.4837	510.9906
ANTIMONY	206.833	Axial	60.75266	0.4817307	0.4881904	0.4767004	0.4803013
ARSENIC	189.042	Axial	93.37296	0.4865869	0.4846659	0.4798192	0.4952755
BARIUM	233.527	Axial	2919.071	0.5052359	0.5062849	0.5037217	0.5057009
BERYLLIUM	313.042	Radial	7965.535	0.5004795	0.5003413	0.5011400	0.4999572
BORON	249.678	Radial	200.6272	0.9684823	0.9694999	0.9758289	0.9601179
CADMIUM	228.802	Axial	2006.993	0.9971324	1.000762	0.9971604	0.9934750
CALCIUM	373.690	Radial	50182.61	511.9148	511.7473	512.2813	511.7158
CERIUM	535.353	Radial	14.65794	0.007439007	-0.04550502	0.01872348	0.04909856
CHROMIUM	267.716	Axial	1061.364	0.4833653	0.4806739	0.4866694	0.4827526
COBALT	228.616	Axial	458.5130	0.5084683	0.5086277	0.5062455	0.5105317
COPPER	324.754	Axial	2118.076	0.5162868	0.5139261	0.5167709	0.5181634
IRON	271.441	Radial	4102.681	204.0184	202.9449	204.0254	205.0848
LANTHANUM	333.749	Radial	-5.53326	-0.008286640	-0.002041934	-0.01472283	-0.008095153
LEAD	220.353	Axial	384.7199	1.004238	1.000583	1.007829	1.004304
LITHIUM	670.784	Radial	-3.50960	0.004045005	0.005354817	0.001061188	0.005719008
MAGNESIUM	279.079	Radial	43944.08	520.3529	519.6702	519.3751	522.0135
MANGANESE	257.610	Axial	10467.40	0.5024845	0.5021959	0.4992112	0.5060465
MOLYBDENUM	202.030	Axial	297.6879	0.4661995	0.4662219	0.4668871	0.4654895
NICKEL	231.604	Axial	827.9022	1.016334	1.012502	1.015463	1.021038
PHOSPHORUS	177.495	Axial	1.058515	-0.0001841780	-0.0007814332	0.005286880	-0.005057980
POTASSIUM	766.490	Radial	-19.3918	0.1165781	0.09052961	0.1584162	0.1007885
SELENIUM	196.090	Axial	72.53983	0.4729978	0.4730488	0.4731024	0.4728422
SILICON	251.611	Axial	976.7018	1.029734	1.021607	1.041786	1.025810
SILVER	328.068	Axial	2887.393	0.7996307	0.8163787	0.7859134	0.7965999
SODIUM	589.592	Radial	24.81636	0.1116629	0.09949035	0.1163600	0.1191383
STRONTIUM	421.552	Radial	74.29658	0.006707932	0.006530878	0.006918157	0.006674762
SULFUR	182.034	Axial	4.030938	0.01194947	0.001740544	0.01684510	0.01726278
THALLIUM	190.856	Axial	80.08141	0.4725159	0.4707221	0.4731653	0.4736604
TIN	189.989	Axial	175.0271	0.4905757	0.4874265	0.4910391	0.4932616
TITANIUM	334.941	Radial	807.5500	0.4877451	0.4896786	0.4861585	0.4873981
VANADIUM	292.402	Radial	292.3945	0.4882487	0.4897742	0.4850839	0.4898881
ZINC	206.200	Axial	2321.473	1.016003	1.022711	1.003884	1.021413

Sample ID: CCV-2 Units: mg/l
Analyzed: 03/20/25 12:19 Sequence: 147 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6484.810	6465.607	6510.199	6478.625
YTTRIUM	360.073	Axial	61272.39	61292.08	61803.27	60721.82
YTTRIUM	360.073	Radial	4770.992	4791.350	4748.654	4772.972
INDIUM	230.606	Axial	1276.078	1274.445	1285.916	1267.874

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	567.7942	9.866037	9.931982	9.874820	9.791308
ANTIMONY	206.833	Axial	68.36741	0.5181029	0.5235342	0.5126650	0.5181097
ARSENIC	189.042	Axial	201.9014	1.010845	1.013184	1.008157	1.011193
BARIUM	233.527	Axial	3114.849	0.5151051	0.5183068	0.5132375	0.5137710
BERYLLIUM	313.042	Radial	3263.946	0.2012981	0.2014225	0.2017235	0.2007482
BORON	249.678	Radial	209.0487	0.9909273	0.9888253	0.9976875	0.9862690
CADMIUM	228.802	Axial	1083.805	0.5124372	0.5138974	0.5123471	0.5110670
CALCIUM	317.933	Radial	11447.41	49.61820	49.52234	49.60497	49.72728
CHROMIUM	267.716	Axial	2338.230	1.014323	1.019495	1.010451	1.013022
COBALT	228.616	Axial	1000.802	0.9787839	0.9782738	0.9769474	0.9811306
COPPER	324.754	Axial	4440.657	1.011259	1.014033	1.002514	1.017229
IRON	259.940	Radial	2507.290	10.06185	10.02510	10.02089	10.13958
LEAD	220.353	Axial	215.4917	0.4992288	0.5033704	0.4953538	0.4989623
LITHIUM	670.784	Radial	1012.401	0.9586159	0.9606207	0.9678171	0.9474098
MAGNESIUM	279.079	Radial	878.1159	10.24506	10.24260	10.27194	10.22064
MANGANESE	257.610	Axial	22194.85	1.017430	1.021856	1.016243	1.014189
MOLYBDENUM	202.030	Axial	167.4075	0.2513294	0.2535540	0.2496186	0.2508155
NICKEL	231.604	Axial	896.7372	0.9760484	0.9767646	0.9708345	0.9805459
PHOSPHORUS	177.495	Axial	188.4988	1.005701	1.007549	1.022652	0.9869023
POTASSIUM	766.490	Radial	4811.903	50.84878	50.62938	50.77562	51.14136
SELENIUM	196.090	Axial	159.2845	1.016306	1.023956	1.022559	1.002404
SILICON	251.611	Axial	2044.347	2.025557	2.027856	2.009186	2.039629
SILVER	328.068	Axial	1980.158	0.5139288	0.5165037	0.5092218	0.5160607
SODIUM	818.326	Radial	441.6516	48.27374	48.31308	48.10718	48.40095
STRONTIUM	421.552	Radial	10804.29	1.025686	1.023802	1.029370	1.023886
SULFUR	182.034	Axial	249.4178	5.074576	5.067195	5.116531	5.040002
THALLIUM	190.856	Axial	198.6278	1.031981	1.039350	1.030487	1.026107
TIN	189.989	Axial	199.8125	0.4965402	0.4964433	0.4958359	0.4973415
TITANIUM	334.941	Radial	1691.933	1.001646	1.001951	1.003132	0.9998563
VANADIUM	292.402	Radial	611.7215	1.001345	1.001552	1.003167	0.9993148
ZINC	206.200	Axial	2462.083	1.029646	1.036640	1.030620	1.021678
CERIUM	535.353	Radial	16.43723	0.02436028	0.04345379	0.005523508	0.02410354
LANTHANUM	333.749	Radial	-7.29826	-0.01140098	-0.009334535	-0.01579125	-0.009077156

Sample ID: CCB-2 Units: mg/l
Analyzed: 03/20/25 12:21 Sequence: 148

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6482.658	6578.785	6353.431	6515.756
YTTRIUM	360.073	Axial	62995.48	63656.77	61698.80	63630.85
YTTRIUM	360.073	Radial	4780.186	4779.187	4795.183	4766.189
INDIUM	230.606	Axial	1376.623	1389.886	1355.436	1384.548

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-3.11022	-0.008791792	-0.01884384	0.01778837	-0.02531990
ANTIMONY	206.833	Axial	0.7493085	0.004003294	0.002522420	0.007545049	0.001942414
ARSENIC	189.042	Axial	1.173883	0.0006628289	0.003953997	-0.006797041	0.004831530
BARIUM	233.527	Axial	-5.95050	-0.00009694662	0.0005737708	-0.0002661263	-0.0005984844
BERYLLIUM	313.042	Radial	1.847087	0.00002109595	0.00004723147	-0.000007293652	0.00002335003
BORON	249.678	Radial	-0.1185513	-0.003901098	-0.004058938	-0.0009951581	-0.006649197
CADMIUM	228.802	Axial	8.707460	-0.00008426077	-0.0004208969	0.0002428564	-0.00007474187
CALCIUM	317.933	Radial	22.97264	0.006792368	0.007628625	0.01234034	0.0004081346
CERIUM	535.353	Radial	16.71610	0.02727315	0.04988365	-0.008585144	0.04052095
CHROMIUM	267.716	Axial	-8.66879	-0.0008937472	-0.0004473627	-0.001514421	-0.0007194578
COBALT	228.616	Axial	-6.72692	-0.0004675192	0.0009387982	-0.003077644	0.0007362879
COPPER	324.754	Axial	-6.94302	-0.001164336	-0.0005984120	-0.002098424	-0.0007961720
IRON	259.940	Radial	2.047930	-0.0002000295	-0.00007395798	0.003092017	-0.003618148
LANTHANUM	333.749	Radial	-1.11762	0.0001739001	-0.0008218237	0.001505603	-0.0001620787
LEAD	220.353	Axial	-0.7126598	-0.0005857536	0.0001314578	-0.001755984	-0.0001327346
LITHIUM	670.784	Radial	-7.43852	0.0004208203	-0.001768835	0.003505986	-0.0004746897
MAGNESIUM	279.079	Radial	-2.31611	0.009768036	0.02426942	-0.003956966	0.008991659
MANGANESE	257.610	Axial	-7.42608	0.0002456270	0.0003503533	0.0002747945	0.0001117334
MOLYBDENUM	202.030	Axial	-1.48529	-0.0004182670	-0.0006748323	0.0008967278	-0.001476696
NICKEL	231.604	Axial	0.9200584	0.0003032814	0.001214928	-0.00008091372	-0.0002241705
PHOSPHORUS	177.495	Axial	1.128655	-0.00001836972	-0.006960658	0.003513830	0.003391718
POTASSIUM	766.490	Radial	-23.1099	0.08170418	0.1242369	0.1016274	0.01924825
SELENIUM	196.090	Axial	1.495487	-0.01206991	-0.01519665	-0.01619273	-0.004820353
SILICON	251.611	Axial	11.26435	-0.0008025098	-0.00008941091	0.00003560747	-0.002353726
SILVER	328.068	Axial	-15.6597	0.000009355094	-0.001042382	0.0001743652	0.0008960817
SODIUM	589.592	Radial	14.77350	0.08350503	0.1093859	0.08636615	0.05476303
STRONTIUM	421.552	Radial	7.675932	0.0002477799	0.0002943226	0.0005948824	-0.0001458654
SULFUR	182.034	Axial	3.897427	0.005387426	0.004279783	0.007587144	0.004295350
THALLIUM	190.856	Axial	-0.9256960	0.001549415	0.003074673	0.004023877	-0.002450306
TIN	189.989	Axial	-0.5156317	0.0009629794	0.001415718	0.0001250271	0.001348193
TITANIUM	334.941	Radial	-2.90154	-0.0001011291	-0.0004397371	0.0007031157	-0.0005667660
VANADIUM	292.402	Radial	-0.5847258	0.0005414474	0.00009171716	0.001138561	0.0003940640
ZINC	206.200	Axial	15.90187	0.0001326082	0.0005719063	-0.0003437896	0.0001697078

Sample ID: BLANK DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:23 Sequence: 149

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6579.968	6578.041	6629.881	6531.980
YTTRIUM	360.073	Axial	63608.92	63750.29	64172.62	62903.86
YTTRIUM	360.073	Radial	4808.523	4814.494	4785.948	4825.126
INDIUM	230.606	Axial	1399.298	1394.360	1416.946	1386.588

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.312648	0.001356382	0.005459797	-0.004569881	0.003179229
BARIUM	233.527	Axial	-4.74199	0.0001164425	0.00009502607	0.0003985157	-0.0001442142
BORON	249.678	Radial	0.6166910	-0.0004349699	0.001280276	-0.005494191	0.002909005
CADMIUM	228.802	Axial	9.237520	0.0001016003	-0.0002058219	-0.0001678649	0.0006784878
CHROMIUM	267.716	Axial	-8.94291	-0.0009440532	-0.001637274	-0.001515730	0.0003208442
COBALT	228.616	Axial	-6.03765	0.0002658473	0.001339546	-0.0005193241	-0.00002268040
LEAD	220.353	Axial	0.1936528	0.001362300	0.0007510571	0.001096166	0.002239677
LITHIUM	670.784	Radial	-7.09793	0.0007780626	0.003816962	-0.002116689	0.0006339155
SILVER	328.068	Axial	-16.5424	-0.0001664177	0.0003415433	-0.001589833	0.0007490366
ALUMINUM	308.215	Radial	-4.78222	-0.03704222	-0.01568830	-0.01210888	-0.08332947
ANTIMONY	206.833	Axial	-0.4843011	-0.005364217	-0.009651860	-0.002347569	-0.004093220
BERYLLIUM	313.042	Radial	2.634941	0.00006842505	0.0001883245	-0.00003746838	0.00005441904
CALCIUM	317.933	Radial	23.78698	0.009727933	0.01257625	0.009558118	0.007049437
CERIUM	535.353	Radial	15.56690	0.01308994	0.002438733	-0.003634679	0.04046578
COPPER	324.754	Axial	-8.62065	-0.001510303	-0.0003168434	-0.001920685	-0.002293380
IRON	259.940	Radial	7.431106	0.02120443	0.02135194	0.01889533	0.02336603
LANTHANUM	333.749	Radial	-1.22762	-0.00001605075	-0.0001263542	0.00006567652	0.00001252541
MAGNESIUM	279.079	Radial	-1.40953	0.02039488	0.01919856	0.03030050	0.01168559
MANGANESE	257.610	Axial	-0.07500214	0.0005821136	0.0004641970	0.0007496978	0.0005324459
MOLYBDENUM	202.030	Axial	-1.15154	0.00008717060	-0.0001743516	0.001379534	-0.0009436710
NICKEL	231.604	Axial	0.3797926	-0.0002449418	-0.001867025	0.0002343432	0.0008978565
PHOSPHORUS	177.495	Axial	1.219419	0.0003112565	-0.001127588	0.002790670	-0.0007293129
POTASSIUM	766.490	Radial	-22.2952	0.09166627	0.1235572	0.07138231	0.08005929
SELENIUM	196.090	Axial	2.613153	-0.004999118	-0.009159446	-0.005433142	-0.0004047651
SILICON	251.611	Axial	43.31717	0.02984685	0.02946334	0.03075160	0.02932562
SODIUM	589.592	Radial	25.54873	0.1118325	0.1244194	0.1101136	0.1009647
STRONTIUM	421.552	Radial	5.616123	0.00005018715	-0.0001967023	0.0001386685	0.0002085953
SULFUR	182.034	Axial	4.741741	0.02133640	0.02068679	0.02551694	0.01780547
THALLIUM	190.856	Axial	-0.8535076	0.001935574	0.006553081	0.002170876	-0.002917234
TIN	189.989	Axial	-0.4713544	0.001079898	-0.001311021	0.002887157	0.001663557
TITANIUM	334.941	Radial	0.1799888	0.001718908	0.0009816223	0.002463938	0.001711164
VANADIUM	292.402	Radial	-2.64883	-0.002796796	-0.002389285	-0.001897909	-0.004103193
ZINC	206.200	Axial	6.590072	-0.003823423	-0.003740184	-0.003840881	-0.003889203

Rows shaded in gray for analytes that were not ordered.

Sample ID: BLANK DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:23 Sequence: 149

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6579.968	6578.041	6629.881	6531.980
YTTRIUM	360.073	Axial	63608.92	63750.29	64172.62	62903.86
YTTRIUM	360.073	Radial	4808.523	4814.494	4785.948	4825.126
INDIUM	230.606	Axial	1399.298	1394.360	1416.946	1386.588

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.312648	0.001356382	0.005459797	-0.004569881	0.003179229
BARIUM	233.527	Axial	-4.74199	0.0001164425	0.00009502607	0.0003985157	-0.0001442142
BORON	249.678	Radial	0.6166910	-0.0004349699	0.001280276	-0.005494191	0.002909005
CADMIUM	228.802	Axial	9.237520	0.0001016003	-0.0002058219	-0.0001678649	0.0006784878
CHROMIUM	267.716	Axial	-8.94291	-0.0009440532	-0.001637274	-0.001515730	0.0003208442
COBALT	228.616	Axial	-6.03765	0.0002658473	0.001339546	-0.0005193241	-0.00002268040
LEAD	220.353	Axial	0.1936528	0.001362300	0.0007510571	0.001096166	0.002239677
LITHIUM	670.784	Radial	-7.09793	0.0007780626	0.003816962	-0.002116689	0.0006339155
SELENIUM	196.090	Axial	2.613153	-0.004999118	-0.009159446	-0.005433142	-0.0004047651
SILVER	328.068	Axial	-16.5424	-0.0001664177	0.0003415433	-0.001589833	0.0007490366
ALUMINUM	308.215	Radial	-4.78222	-0.03704222	-0.01568830	-0.01210888	-0.08332947
ANTIMONY	206.833	Axial	-0.4843011	-0.005364217	-0.009651860	-0.002347569	-0.004093220
BERYLLIUM	313.042	Radial	2.634941	0.00006842505	0.0001883245	-0.00003746838	0.00005441904
CALCIUM	317.933	Radial	23.78698	0.009727933	0.01257625	0.009558118	0.007049437
CERIUM	535.353	Radial	15.56690	0.01308994	0.002438733	-0.003634679	0.04046578
COPPER	324.754	Axial	-8.62065	-0.001510303	-0.0003168434	-0.001920685	-0.002293380
IRON	259.940	Radial	7.431106	0.02120443	0.02135194	0.01889533	0.02336603
LANTHANUM	333.749	Radial	-1.22762	-0.00001605075	-0.0001263542	0.00006567652	0.00001252541
MAGNESIUM	279.079	Radial	-1.40953	0.02039488	0.01919856	0.03030050	0.01168559
MANGANESE	257.610	Axial	-0.07500214	0.0005821136	0.0004641970	0.0007496978	0.0005324459
MOLYBDENUM	202.030	Axial	-1.15154	0.00008717060	-0.0001743516	0.001379534	-0.0009436710
NICKEL	231.604	Axial	0.3797926	-0.0002449418	-0.001867025	0.0002343432	0.0008978565
PHOSPHORUS	177.495	Axial	1.219419	0.0003112565	-0.001127588	0.002790670	-0.0007293129
POTASSIUM	766.490	Radial	-22.2952	0.09166627	0.1235572	0.07138231	0.08005929
SILICON	251.611	Axial	43.31717	0.02984685	0.02946334	0.03075160	0.02932562
SODIUM	589.592	Radial	25.54873	0.1118325	0.1244194	0.1101136	0.1009647
STRONTIUM	421.552	Radial	5.616123	0.00005018715	-0.0001967023	0.0001386685	0.0002085953
SULFUR	182.034	Axial	4.741741	0.02133640	0.02068679	0.02551694	0.01780547
THALLIUM	190.856	Axial	-0.8535076	0.001935574	0.006553081	0.002170876	-0.002917234
TIN	189.989	Axial	-0.4713544	0.001079898	-0.001311021	0.002887157	0.001663557
TITANIUM	334.941	Radial	0.1799888	0.001718908	0.0009816223	0.002463938	0.001711164
VANADIUM	292.402	Radial	-2.64883	-0.002796796	-0.002389285	-0.001897909	-0.004103193
ZINC	206.200	Axial	6.590072	-0.003823423	-0.003740184	-0.003840881	-0.003889203

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:24 Sequence: 150

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6603.648	6577.449	6712.330	6521.165
YTTRIUM	360.073	Axial	62695.54	62466.22	63070.77	62549.63
YTTRIUM	360.073	Radial	4801.155	4800.693	4748.838	4853.933
INDIUM	230.606	Axial	1330.910	1331.671	1337.745	1323.315

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	204.2246	1.004148	0.9941238	0.9954220	1.022897
BARIUM	233.527	Axial	6403.449	1.039115	1.035964	1.025085	1.056295
BORON	249.678	Radial	206.3475	0.9719523	0.9634564	0.9833603	0.9690403
CADMIUM	228.802	Axial	2189.638	1.020939	1.011054	1.012395	1.039369
CHROMIUM	267.716	Axial	2357.441	1.004381	0.9998886	0.9943439	1.018912
COBALT	228.616	Axial	998.6773	0.9367235	0.9243231	0.9374693	0.9483781
LEAD	220.353	Axial	444.5062	0.9864200	0.9688415	0.9932277	0.9971907
LITHIUM	670.784	Radial	1013.112	0.9533707	0.9661930	0.9578115	0.9361074
SILVER	328.068	Axial	755.8217	0.1941727	0.1950982	0.1931316	0.1942882
ALUMINUM	308.215	Radial	580.3406	10.02016	10.01478	10.03613	10.00955
ANTIMONY	206.833	Axial	135.0907	1.007063	1.001389	0.9945732	1.025226
BERYLLIUM	313.042	Radial	16158.87	0.9906819	0.9920763	0.9917530	0.9882163
CALCIUM	317.933	Radial	2306.260	9.859915	9.899893	9.917363	9.762489
CERIUM	535.353	Radial	16.57193	0.02488927	-0.01207030	0.06071015	0.02602797
COPPER	324.754	Axial	4612.315	1.026444	1.010796	1.029080	1.039457
IRON	259.940	Radial	2491.165	9.935494	10.02686	10.05923	9.720386
LANTHANUM	333.749	Radial	-14.2270	-0.02421947	-0.01699495	-0.03248469	-0.02317875
MAGNESIUM	279.079	Radial	872.8120	10.11998	10.12733	10.16650	10.06610
MANGANESE	257.610	Axial	22374.27	1.007365	1.005947	0.9904928	1.025654
MOLYBDENUM	202.030	Axial	697.5668	1.023019	1.017250	1.010027	1.041782
NICKEL	231.604	Axial	908.3122	0.9479051	0.9388574	0.9449055	0.9599524
PHOSPHORUS	177.495	Axial	188.7365	0.9888466	0.9932668	0.9797037	0.9935692
POTASSIUM	766.490	Radial	953.0688	10.26868	10.26672	10.32717	10.21215
SELENIUM	196.090	Axial	156.4941	0.9799083	0.9693397	0.9688008	1.001584
SILICON	251.611	Axial	992.0766	0.9544261	0.9475835	0.9572780	0.9584167
SODIUM	589.592	Radial	3829.855	10.19890	10.19869	10.23733	10.16069
STRONTIUM	421.552	Radial	10903.68	1.028612	1.030207	1.027870	1.027760
SULFUR	182.034	Axial	493.8262	9.937959	9.949538	9.888172	9.976169
THALLIUM	190.856	Axial	207.0404	1.031414	1.014307	1.032365	1.047569
TIN	189.989	Axial	409.8486	0.9744268	0.9697134	0.9803984	0.9731686
TITANIUM	334.941	Radial	1700.037	1.000141	0.9996763	1.002949	0.9977961
VANADIUM	292.402	Radial	607.5158	0.9882349	0.9878356	0.9891982	0.9876708
ZINC	206.200	Axial	2477.327	1.017466	1.018422	0.9995159	1.034461

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:24 Sequence: 150

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6603.648	6577.449	6712.330	6521.165
YTTRIUM	360.073	Axial	62695.54	62466.22	63070.77	62549.63
YTTRIUM	360.073	Radial	4801.155	4800.693	4748.838	4853.933
INDIUM	230.606	Axial	1330.910	1331.671	1337.745	1323.315

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	204.2246	1.004148	0.9941238	0.9954220	1.022897
BARIUM	233.527	Axial	6403.449	1.039115	1.035964	1.025085	1.056295
BORON	249.678	Radial	206.3475	0.9719523	0.9634564	0.9833603	0.9690403
CADMIUM	228.802	Axial	2189.638	1.020939	1.011054	1.012395	1.039369
CHROMIUM	267.716	Axial	2357.441	1.004381	0.9998886	0.9943439	1.018912
COBALT	228.616	Axial	998.6773	0.9367235	0.9243231	0.9374693	0.9483781
LEAD	220.353	Axial	444.5062	0.9864200	0.9688415	0.9932277	0.9971907
LITHIUM	670.784	Radial	1013.112	0.9533707	0.9661930	0.9578115	0.9361074
SELENIUM	196.090	Axial	156.4941	0.9799083	0.9693397	0.9688008	1.001584
SILVER	328.068	Axial	755.8217	0.1941727	0.1950982	0.1931316	0.1942882
ALUMINUM	308.215	Radial	580.3406	10.02016	10.01478	10.03613	10.00955
ANTIMONY	206.833	Axial	135.0907	1.007063	1.001389	0.9945732	1.025226
BERYLLIUM	313.042	Radial	16158.87	0.9906819	0.9920763	0.9917530	0.9882163
CALCIUM	317.933	Radial	2306.260	9.859915	9.899893	9.917363	9.762489
CERIUM	535.353	Radial	16.57193	0.02488927	-0.01207030	0.06071015	0.02602797
COPPER	324.754	Axial	4612.315	1.026444	1.010796	1.029080	1.039457
IRON	259.940	Radial	2491.165	9.935494	10.02686	10.05923	9.720386
LANTHANUM	333.749	Radial	-14.2270	-0.02421947	-0.01699495	-0.03248469	-0.02317875
MAGNESIUM	279.079	Radial	872.8120	10.11998	10.12733	10.16650	10.06610
MANGANESE	257.610	Axial	22374.27	1.007365	1.005947	0.9904928	1.025654
MOLYBDENUM	202.030	Axial	697.5668	1.023019	1.017250	1.010027	1.041782
NICKEL	231.604	Axial	908.3122	0.9479051	0.9388574	0.9449055	0.9599524
PHOSPHORUS	177.495	Axial	188.7365	0.9888466	0.9932668	0.9797037	0.9935692
POTASSIUM	766.490	Radial	953.0688	10.26868	10.26672	10.32717	10.21215
SILICON	251.611	Axial	992.0766	0.9544261	0.9475835	0.9572780	0.9584167
SODIUM	589.592	Radial	3829.855	10.19890	10.19869	10.23733	10.16069
STRONTIUM	421.552	Radial	10903.68	1.028612	1.030207	1.027870	1.027760
SULFUR	182.034	Axial	493.8262	9.937959	9.949538	9.888172	9.976169
THALLIUM	190.856	Axial	207.0404	1.031414	1.014307	1.032365	1.047569
TIN	189.989	Axial	409.8486	0.9744268	0.9697134	0.9803984	0.9731686
TITANIUM	334.941	Radial	1700.037	1.000141	0.9996763	1.002949	0.9977961
VANADIUM	292.402	Radial	607.5158	0.9882349	0.9878356	0.9891982	0.9876708
ZINC	206.200	Axial	2477.327	1.017466	1.018422	0.9995159	1.034461

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1836966-09 DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:26 Sequence: 151

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6959.828	6936.034	6928.394	7015.055
YTTRIUM	360.073	Axial	64858.96	64249.50	64872.05	65455.32
YTTRIUM	360.073	Radial	4990.462	5009.862	5011.668	4949.855
INDIUM	230.606	Axial	1313.749	1300.298	1322.296	1318.654

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	30.58006	0.1382180	0.1446873	0.1344444	0.1355224
BARIUM	233.527	Axial	28579.24	4.396821	4.391487	4.395423	4.403552
BORON	249.678	Radial	20.61493	0.09038963	0.09239859	0.09123498	0.08753533
CADMIUM	228.802	Axial	45.42896	0.01593829	0.01520474	0.01656894	0.01604120
CHROMIUM	267.716	Axial	896.5772	0.3642257	0.3627081	0.3653585	0.3646105
COBALT	228.616	Axial	97.69283	0.09789363	0.09900577	0.09584076	0.09883436
LEAD	220.353	Axial	6298.055	14.14694	14.32194	13.94880	14.17007
LITHIUM	670.784	Radial	109.8260	0.1060328	0.1096059	0.1066621	0.1018304
SELENIUM	196.090	Axial	-1.72910	-0.03230308	-0.02982117	-0.03640913	-0.03067894
SILVER	328.068	Axial	42.03952	0.01415809	0.01394640	0.01441818	0.01410970
ALUMINUM	308.215	Radial	4312.723	71.36331	71.21234	71.11252	71.76505
ANTIMONY	206.833	Axial	8.290711	0.05701307	0.05081067	0.06472790	0.05550065
BERYLLIUM	313.042	Radial	49.62312	0.002834308	0.002905950	0.002806275	0.002790699
CALCIUM	373.690	Radial	11598.56	111.0527	111.7075	110.8985	110.5520
CERIUM	535.353	Radial	29.29346	0.1559465	0.1900893	0.1123198	0.1654305
COPPER	324.754	Axial	4102.247	0.8825481	0.8864444	0.8752028	0.8859973
IRON	271.441	Radial	3603.814	168.2116	167.8485	167.2106	169.5755
LANTHANUM	333.749	Radial	20.42898	0.03878340	0.04195000	0.03964615	0.03475404
MAGNESIUM	279.079	Radial	4960.899	55.17358	55.09623	54.97064	55.45386
MANGANESE	257.610	Axial	103458.6	4.416913	4.411704	4.412166	4.426870
MOLYBDENUM	202.030	Axial	2.736569	0.005581487	0.005396686	0.004800270	0.006547504
NICKEL	231.604	Axial	485.0464	0.5125173	0.5152419	0.5075451	0.5147649
PHOSPHORUS	177.495	Axial	3391.753	16.95776	16.95978	16.87566	17.03785
POTASSIUM	766.490	Radial	1573.690	16.12144	16.07359	16.04783	16.24289
SILICON	251.611	Axial	20622.96	19.40340	19.55247	19.33571	19.32202
SODIUM	589.592	Radial	529.7650	1.395600	1.377527	1.394284	1.414990
STRONTIUM	421.552	Radial	9464.659	0.8588394	0.8663060	0.8689228	0.8412894
SULFUR	182.034	Axial	147.9435	2.771100	2.781007	2.784545	2.747747
THALLIUM	190.856	Axial	-1.51590	-0.001648012	-0.003968811	-0.004171709	0.003196485
TIN	189.989	Axial	121.2003	0.2934378	0.2945624	0.2929338	0.2928172
TITANIUM	334.941	Radial	1287.164	0.7289374	0.7298702	0.7295696	0.7273725
VANADIUM	292.402	Radial	132.2005	0.2080712	0.2077209	0.2086908	0.2078020
ZINC	206.200	Axial	16693.76	6.539540	6.608410	6.435456	6.574753

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1836966-09 Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:28 Sequence: 152

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6747.924	6815.623	6757.206	6670.944
YTTRIUM	360.073	Axial	64370.10	64726.48	64910.64	63473.18
YTTRIUM	360.073	Radial	4891.366	4879.574	4923.839	4870.684
INDIUM	230.606	Axial	1358.640	1375.838	1357.089	1342.994

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	6.842530	0.02791528	0.02450898	0.03404685	0.02519000
BARIUM	233.527	Axial	5631.883	0.8943877	0.8934620	0.8915849	0.8981161
BORON	249.678	Radial	4.553084	0.01780289	0.01447150	0.01456954	0.02436765
CADMIUM	228.802	Axial	15.64062	0.002928800	0.002705972	0.002414087	0.003666341
CHROMIUM	267.716	Axial	165.1779	0.07153688	0.07080770	0.07092517	0.07287776
COBALT	228.616	Axial	14.78570	0.01911594	0.01963147	0.01899650	0.01871985
LEAD	220.353	Axial	1260.692	2.738961	2.716909	2.750262	2.749713
LITHIUM	670.784	Radial	15.42258	0.02154321	0.01943249	0.01941082	0.02578632
SILVER	328.068	Axial	-5.33478	0.002623329	0.003047114	0.002138235	0.002684638
ALUMINUM	308.215	Radial	824.3814	13.95338	13.96292	13.95527	13.94195
ANTIMONY	206.833	Axial	3.042909	0.02050877	0.01979749	0.02056787	0.02116097
BERYLLIUM	313.042	Radial	12.99086	0.0006893410	0.0007447141	0.0006253421	0.0006979669
CALCIUM	317.933	Radial	5078.269	21.41727	21.42358	21.37723	21.45101
CERIUM	535.353	Radial	18.80966	0.04625481	0.06284851	0.006639749	0.06927618
COPPER	324.754	Axial	812.0593	0.1763494	0.1749605	0.1759156	0.1781721
IRON	271.441	Radial	695.1670	33.06114	33.34387	32.82247	33.01709
LANTHANUM	333.749	Radial	2.292786	0.006443429	0.006016102	0.007282065	0.006032119
MAGNESIUM	279.079	Radial	964.1446	10.96938	11.01039	10.93855	10.95919
MANGANESE	257.610	Axial	20073.87	0.8843892	0.8824159	0.8888670	0.8818848
MOLYBDENUM	202.030	Axial	-0.5492579	0.0009992262	0.001712882	-0.0005203618	0.001805158
NICKEL	231.604	Axial	96.41581	0.09799695	0.09850973	0.09906286	0.09641826
PHOSPHORUS	177.495	Axial	665.7670	3.428570	3.383543	3.451145	3.451022
POTASSIUM	766.490	Radial	280.3496	3.195049	3.199977	3.230287	3.154885
SELENIUM	196.090	Axial	2.859439	-0.003889563	-0.003017914	-0.004564328	-0.004086447
SILICON	251.611	Axial	4147.585	3.922559	3.930046	3.901637	3.935994
SODIUM	589.592	Radial	103.1930	0.3127782	0.3207359	0.3039101	0.3136884
STRONTIUM	421.552	Radial	1866.182	0.1724003	0.1705194	0.1734647	0.1732167
SULFUR	182.034	Axial	32.00927	0.5600926	0.5490477	0.5568817	0.5743485
THALLIUM	190.856	Axial	-0.7042751	0.002535334	0.002697339	0.006262966	-0.001354304
TIN	189.989	Axial	22.69623	0.05490680	0.05368267	0.05451677	0.05652095
TITANIUM	334.941	Radial	246.2615	0.1435842	0.1444515	0.1436598	0.1426412
VANADIUM	292.402	Radial	23.89602	0.03960033	0.03641375	0.03796584	0.04442140
ZINC	206.200	Axial	3329.397	1.340202	1.310227	1.349531	1.360847

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1836966-09 Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:28 Sequence: 152

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6747.924	6815.623	6757.206	6670.944
YTTRIUM	360.073	Axial	64370.10	64726.48	64910.64	63473.18
YTTRIUM	360.073	Radial	4891.366	4879.574	4923.839	4870.684
INDIUM	230.606	Axial	1358.640	1375.838	1357.089	1342.994

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	6.842530	0.02791528	0.02450898	0.03404685	0.02519000
BARIUM	233.527	Axial	5631.883	0.8943877	0.8934620	0.8915849	0.8981161
BORON	249.678	Radial	4.553084	0.01780289	0.01447150	0.01456954	0.02436765
CADMIUM	228.802	Axial	15.64062	0.002928800	0.002705972	0.002414087	0.003666341
CHROMIUM	267.716	Axial	165.1779	0.07153688	0.07080770	0.07092517	0.07287776
COBALT	228.616	Axial	14.78570	0.01911594	0.01963147	0.01899650	0.01871985
LEAD	220.353	Axial	1260.692	2.738961	2.716909	2.750262	2.749713
LITHIUM	670.784	Radial	15.42258	0.02154321	0.01943249	0.01941082	0.02578632
SELENIUM	196.090	Axial	2.859439	-0.003889563	-0.003017914	-0.004564328	-0.004086447
SILVER	328.068	Axial	-5.33478	0.002623329	0.003047114	0.002138235	0.002684638
ALUMINUM	308.215	Radial	824.3814	13.95338	13.96292	13.95527	13.94195
ANTIMONY	206.833	Axial	3.042909	0.02050877	0.01979749	0.02056787	0.02116097
BERYLLIUM	313.042	Radial	12.99086	0.0006893410	0.0007447141	0.0006253421	0.0006979669
CALCIUM	317.933	Radial	5078.269	21.41727	21.42358	21.37723	21.45101
CERIUM	535.353	Radial	18.80966	0.04625481	0.06284851	0.006639749	0.06927618
COPPER	324.754	Axial	812.0593	0.1763494	0.1749605	0.1759156	0.1781721
IRON	271.441	Radial	695.1670	33.06114	33.34387	32.82247	33.01709
LANTHANUM	333.749	Radial	2.292786	0.006443429	0.006016102	0.007282065	0.006032119
MAGNESIUM	279.079	Radial	964.1446	10.96938	11.01039	10.93855	10.95919
MANGANESE	257.610	Axial	20073.87	0.8843892	0.8824159	0.8888670	0.8818848
MOLYBDENUM	202.030	Axial	-0.5492579	0.0009992262	0.001712882	-0.0005203618	0.001805158
NICKEL	231.604	Axial	96.41581	0.09799695	0.09850973	0.09906286	0.09641826
PHOSPHORUS	177.495	Axial	665.7670	3.428570	3.383543	3.451145	3.451022
POTASSIUM	766.490	Radial	280.3496	3.195049	3.199977	3.230287	3.154885
SILICON	251.611	Axial	4147.585	3.922559	3.930046	3.901637	3.935994
SODIUM	589.592	Radial	103.1930	0.3127782	0.3207359	0.3039101	0.3136884
STRONTIUM	421.552	Radial	1866.182	0.1724003	0.1705194	0.1734647	0.1732167
SULFUR	182.034	Axial	32.00927	0.5600926	0.5490477	0.5568817	0.5743485
THALLIUM	190.856	Axial	-0.7042751	0.002535334	0.002697339	0.006262966	-0.001354304
TIN	189.989	Axial	22.69623	0.05490680	0.05368267	0.05451677	0.05652095
TITANIUM	334.941	Radial	246.2615	0.1435842	0.1444515	0.1436598	0.1426412
VANADIUM	292.402	Radial	23.89602	0.03960033	0.03641375	0.03796584	0.04442140
ZINC	206.200	Axial	3329.397	1.340202	1.310227	1.349531	1.360847

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1836966-09 Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:29 Sequence: 153

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7002.820	7183.910	6891.714	6932.834
YTTRIUM	360.073	Axial	64708.51	65743.35	64050.30	64331.88
YTTRIUM	360.073	Radial	4986.838	4960.296	4961.245	5038.972
INDIUM	230.606	Axial	1306.469	1324.017	1293.313	1302.076

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	235.3243	1.091532	1.084368	1.098673	1.091555
BARIUM	233.527	Axial	34357.65	5.253962	5.197913	5.292705	5.271269
BORON	249.678	Radial	227.9290	1.033724	1.025820	1.029389	1.045963
CADMIUM	228.802	Axial	2231.125	0.9808640	0.9700563	0.9919311	0.9806046
CHROMIUM	267.716	Axial	3316.727	1.331542	1.325075	1.337250	1.332303
COBALT	228.616	Axial	1106.989	1.057002	1.056900	1.062646	1.051461
LEAD	220.353	Axial	6641.579	15.00031	15.06586	15.03598	14.89909
LITHIUM	670.784	Radial	1210.241	1.095299	1.098074	1.098469	1.089352
SILVER	328.068	Axial	803.5850	0.1999066	0.1990035	0.2003722	0.2003441
ALUMINUM	308.215	Radial	4807.294	79.59783	79.40943	79.78702	79.59703
ANTIMONY	206.833	Axial	142.8037	1.003818	0.9969928	1.003355	1.011106
BERYLLIUM	313.042	Radial	16462.49	0.9716967	0.9715021	0.9709236	0.9726643
CALCIUM	373.690	Radial	12423.85	119.0429	118.9778	118.9527	119.1981
CERIUM	535.353	Radial	28.48785	0.1472429	0.1703191	0.09864868	0.1727609
COPPER	324.754	Axial	8568.631	1.847286	1.848804	1.846052	1.847002
IRON	271.441	Radial	3733.664	174.3968	174.6483	174.4384	174.1037
LANTHANUM	333.749	Radial	6.858671	0.01453949	0.01348426	0.01587334	0.01426088
MAGNESIUM	279.079	Radial	5736.044	63.83464	63.92779	63.90745	63.66870
MANGANESE	257.610	Axial	124360.7	5.277359	5.221612	5.316347	5.294118
MOLYBDENUM	202.030	Axial	704.2298	0.9740374	0.9618132	0.9844242	0.9758749
NICKEL	231.604	Axial	1393.276	1.481501	1.484603	1.483711	1.476189
PHOSPHORUS	177.495	Axial	3535.452	17.56971	17.50164	17.89357	17.31392
POTASSIUM	766.490	Radial	2550.212	25.94249	26.00953	25.96255	25.85539
SELENIUM	196.090	Axial	150.9219	0.8890770	0.8874268	0.8924022	0.8874021
SILICON	251.611	Axial	21270.71	20.05818	20.16633	20.01021	19.99799
SODIUM	589.592	Radial	4486.421	11.49646	11.51097	11.47035	11.50806
STRONTIUM	421.552	Radial	20153.68	1.830762	1.814175	1.839569	1.838541
SULFUR	182.034	Axial	641.5246	12.19100	12.18817	12.29898	12.08585
THALLIUM	190.856	Axial	194.9278	0.9894571	0.9911114	0.9958766	0.9813833
TIN	189.989	Axial	522.8068	1.265532	1.278511	1.261854	1.256231
TITANIUM	334.941	Radial	2990.273	1.692586	1.691243	1.702737	1.683779
VANADIUM	292.402	Radial	733.3304	1.148212	1.143119	1.150009	1.151508
ZINC	206.200	Axial	18782.48	7.315912	7.137677	7.428892	7.381167

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1836966-09 Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:29 Sequence: 153

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7002.820	7183.910	6891.714	6932.834
YTTRIUM	360.073	Axial	64708.51	65743.35	64050.30	64331.88
YTTRIUM	360.073	Radial	4986.838	4960.296	4961.245	5038.972
INDIUM	230.606	Axial	1306.469	1324.017	1293.313	1302.076

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	235.3243	1.091532	1.084368	1.098673	1.091555
BARIUM	233.527	Axial	34357.65	5.253962	5.197913	5.292705	5.271269
BORON	249.678	Radial	227.9290	1.033724	1.025820	1.029389	1.045963
CADMIUM	228.802	Axial	2231.125	0.9808640	0.9700563	0.9919311	0.9806046
CHROMIUM	267.716	Axial	3316.727	1.331542	1.325075	1.337250	1.332303
COBALT	228.616	Axial	1106.989	1.057002	1.056900	1.062646	1.051461
LEAD	220.353	Axial	6641.579	15.00031	15.06586	15.03598	14.89909
LITHIUM	670.784	Radial	1210.241	1.095299	1.098074	1.098469	1.089352
SELENIUM	196.090	Axial	150.9219	0.8890770	0.8874268	0.8924022	0.8874021
SILVER	328.068	Axial	803.5850	0.1999066	0.1990035	0.2003722	0.2003441
ALUMINUM	308.215	Radial	4807.294	79.59783	79.40943	79.78702	79.59703
ANTIMONY	206.833	Axial	142.8037	1.003818	0.9969928	1.003355	1.011106
BERYLLIUM	313.042	Radial	16462.49	0.9716967	0.9715021	0.9709236	0.9726643
CALCIUM	373.690	Radial	12423.85	119.0429	118.9778	118.9527	119.1981
CERIUM	535.353	Radial	28.48785	0.1472429	0.1703191	0.09864868	0.1727609
COPPER	324.754	Axial	8568.631	1.847286	1.848804	1.846052	1.847002
IRON	271.441	Radial	3733.664	174.3968	174.6483	174.4384	174.1037
LANTHANUM	333.749	Radial	6.858671	0.01453949	0.01348426	0.01587334	0.01426088
MAGNESIUM	279.079	Radial	5736.044	63.83464	63.92779	63.90745	63.66870
MANGANESE	257.610	Axial	124360.7	5.277359	5.221612	5.316347	5.294118
MOLYBDENUM	202.030	Axial	704.2298	0.9740374	0.9618132	0.9844242	0.9758749
NICKEL	231.604	Axial	1393.276	1.481501	1.484603	1.483711	1.476189
PHOSPHORUS	177.495	Axial	3535.452	17.56971	17.50164	17.89357	17.31392
POTASSIUM	766.490	Radial	2550.212	25.94249	26.00953	25.96255	25.85539
SILICON	251.611	Axial	21270.71	20.05818	20.16633	20.01021	19.99799
SODIUM	589.592	Radial	4486.421	11.49646	11.51097	11.47035	11.50806
STRONTIUM	421.552	Radial	20153.68	1.830762	1.814175	1.839569	1.838541
SULFUR	182.034	Axial	641.5246	12.19100	12.18817	12.29898	12.08585
THALLIUM	190.856	Axial	194.9278	0.9894571	0.9911114	0.9958766	0.9813833
TIN	189.989	Axial	522.8068	1.265532	1.278511	1.261854	1.256231
TITANIUM	334.941	Radial	2990.273	1.692586	1.691243	1.702737	1.683779
VANADIUM	292.402	Radial	733.3304	1.148212	1.143119	1.150009	1.151508
ZINC	206.200	Axial	18782.48	7.315912	7.137677	7.428892	7.381167

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1836966-09 Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:31 Sequence: 154

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6899.137	6831.993	6889.203	6976.215
YTTRIUM	360.073	Axial	63762.90	63236.05	63923.70	64128.94
YTTRIUM	360.073	Radial	5019.051	5047.400	4993.389	5016.365
INDIUM	230.606	Axial	1289.462	1269.579	1297.971	1300.835

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	227.5662	1.071248	1.071270	1.078661	1.063814
BARIUM	233.527	Axial	32552.27	5.052209	5.054937	5.095002	5.006688
BORON	249.678	Radial	218.6994	0.9853907	0.9887488	0.9805724	0.9868507
CADMIUM	228.802	Axial	2177.703	0.9716117	0.9714793	0.9800754	0.9632805
CHROMIUM	267.716	Axial	3219.318	1.311841	1.306382	1.327232	1.301910
COBALT	228.616	Axial	1076.685	1.041772	1.051122	1.042900	1.031292
LEAD	220.353	Axial	5831.929	13.34596	13.37020	13.35061	13.31707
LITHIUM	670.784	Radial	1192.567	1.072519	1.072556	1.085109	1.059892
SILVER	328.068	Axial	822.4264	0.2074751	0.2092624	0.2058178	0.2073451
ALUMINUM	308.215	Radial	4802.723	79.01229	78.91429	79.00805	79.11454
ANTIMONY	206.833	Axial	111.6955	0.7965737	0.7963135	0.8082027	0.7852047
BERYLLIUM	313.042	Radial	16305.05	0.9562321	0.9574440	0.9591931	0.9520592
CALCIUM	373.690	Radial	13042.41	124.1693	124.3491	124.7023	123.4564
CERIUM	535.353	Radial	31.78415	0.1809564	0.1890405	0.1625835	0.1912450
COPPER	324.754	Axial	10076.25	2.204495	2.207220	2.220085	2.186182
IRON	271.441	Radial	3304.108	153.3326	154.0259	153.2705	152.7015
LANTHANUM	333.749	Radial	7.880458	0.01627160	0.01684168	0.01391407	0.01805906
MAGNESIUM	279.079	Radial	5668.923	62.68237	62.82238	62.74113	62.48360
MANGANESE	257.610	Axial	109009.9	4.694961	4.694898	4.719242	4.670743
MOLYBDENUM	202.030	Axial	634.1297	0.8902879	0.8879294	0.9001734	0.8827608
NICKEL	231.604	Axial	1371.894	1.478084	1.486369	1.478804	1.469078
PHOSPHORUS	177.495	Axial	3277.743	16.53272	16.60523	16.56632	16.42662
POTASSIUM	766.490	Radial	2363.576	23.91488	23.93114	23.98951	23.82398
SELENIUM	196.090	Axial	138.6196	0.8273704	0.8222727	0.8343050	0.8255334
SILICON	251.611	Axial	21667.44	20.73590	20.55105	20.90744	20.74922
SODIUM	589.592	Radial	4473.186	11.38923	11.47310	11.35817	11.33641
STRONTIUM	421.552	Radial	20432.93	1.844332	1.819644	1.857526	1.855826
SULFUR	182.034	Axial	633.2298	12.21389	12.10816	12.33595	12.19756
THALLIUM	190.856	Axial	187.9388	0.9667734	0.9757439	0.9732060	0.9513702
TIN	189.989	Axial	507.4877	1.244843	1.254232	1.244490	1.235807
TITANIUM	334.941	Radial	2552.314	1.435628	1.432681	1.435728	1.438475
VANADIUM	292.402	Radial	722.5906	1.124189	1.123649	1.127736	1.121183
ZINC	206.200	Axial	18545.05	7.330412	7.446073	7.321009	7.224155

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1836966-09 Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:31 Sequence: 154

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6899.137	6831.993	6889.203	6976.215
YTTRIUM	360.073	Axial	63762.90	63236.05	63923.70	64128.94
YTTRIUM	360.073	Radial	5019.051	5047.400	4993.389	5016.365
INDIUM	230.606	Axial	1289.462	1269.579	1297.971	1300.835

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	227.5662	1.071248	1.071270	1.078661	1.063814
BARIUM	233.527	Axial	32552.27	5.052209	5.054937	5.095002	5.006688
BORON	249.678	Radial	218.6994	0.9853907	0.9887488	0.9805724	0.9868507
CADMIUM	228.802	Axial	2177.703	0.9716117	0.9714793	0.9800754	0.9632805
CHROMIUM	267.716	Axial	3219.318	1.311841	1.306382	1.327232	1.301910
COBALT	228.616	Axial	1076.685	1.041772	1.051122	1.042900	1.031292
LEAD	220.353	Axial	5831.929	13.34596	13.37020	13.35061	13.31707
LITHIUM	670.784	Radial	1192.567	1.072519	1.072556	1.085109	1.059892
SELENIUM	196.090	Axial	138.6196	0.8273704	0.8222727	0.8343050	0.8255334
SILVER	328.068	Axial	822.4264	0.2074751	0.2092624	0.2058178	0.2073451
ALUMINUM	308.215	Radial	4802.723	79.01229	78.91429	79.00805	79.11454
ANTIMONY	206.833	Axial	111.6955	0.7965737	0.7963135	0.8082027	0.7852047
BERYLLIUM	313.042	Radial	16305.05	0.9562321	0.9574440	0.9591931	0.9520592
CALCIUM	373.690	Radial	13042.41	124.1693	124.3491	124.7023	123.4564
CERIUM	535.353	Radial	31.78415	0.1809564	0.1890405	0.1625835	0.1912450
COPPER	324.754	Axial	10076.25	2.204495	2.207220	2.220085	2.186182
IRON	271.441	Radial	3304.108	153.3326	154.0259	153.2705	152.7015
LANTHANUM	333.749	Radial	7.880458	0.01627160	0.01684168	0.01391407	0.01805906
MAGNESIUM	279.079	Radial	5668.923	62.68237	62.82238	62.74113	62.48360
MANGANESE	257.610	Axial	109009.9	4.694961	4.694898	4.719242	4.670743
MOLYBDENUM	202.030	Axial	634.1297	0.8902879	0.8879294	0.9001734	0.8827608
NICKEL	231.604	Axial	1371.894	1.478084	1.486369	1.478804	1.469078
PHOSPHORUS	177.495	Axial	3277.743	16.53272	16.60523	16.56632	16.42662
POTASSIUM	766.490	Radial	2363.576	23.91488	23.93114	23.98951	23.82398
SILICON	251.611	Axial	21667.44	20.73590	20.55105	20.90744	20.74922
SODIUM	589.592	Radial	4473.186	11.38923	11.47310	11.35817	11.33641
STRONTIUM	421.552	Radial	20432.93	1.844332	1.819644	1.857526	1.855826
SULFUR	182.034	Axial	633.2298	12.21389	12.10816	12.33595	12.19756
THALLIUM	190.856	Axial	187.9388	0.9667734	0.9757439	0.9732060	0.9513702
TIN	189.989	Axial	507.4877	1.244843	1.254232	1.244490	1.235807
TITANIUM	334.941	Radial	2552.314	1.435628	1.432681	1.435728	1.438475
VANADIUM	292.402	Radial	722.5906	1.124189	1.123649	1.127736	1.121183
ZINC	206.200	Axial	18545.05	7.330412	7.446073	7.321009	7.224155

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1836966-09 Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:33 Sequence: 155

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6813.125	6799.669	6864.435	6775.270
YTTRIUM	360.073	Axial	63628.48	63297.89	64140.81	63446.72
YTTRIUM	360.073	Radial	4979.254	5001.663	4991.482	4944.618
INDIUM	230.606	Axial	1277.819	1277.544	1280.308	1275.606

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	224.0146	1.067812	1.064955	1.064544	1.073937
BARIUM	233.527	Axial	34266.58	5.385235	5.376425	5.367230	5.412050
BORON	249.678	Radial	221.1736	1.004611	0.9965572	1.005412	1.011863
CADMIUM	228.802	Axial	2170.392	0.9805723	0.9808543	0.9819676	0.9788949
CHROMIUM	267.716	Axial	3250.478	1.341167	1.339330	1.342041	1.342131
COBALT	228.616	Axial	1087.354	1.061486	1.052812	1.072982	1.058663
LEAD	220.353	Axial	6421.188	14.82792	14.78380	14.91342	14.78652
LITHIUM	670.784	Radial	1209.777	1.096470	1.098139	1.105886	1.085387
SILVER	328.068	Axial	818.4338	0.2069071	0.2071803	0.2073043	0.2062369
ALUMINUM	308.215	Radial	4881.135	80.94214	81.04893	81.02569	80.75181
ANTIMONY	206.833	Axial	111.1879	0.8029158	0.7994578	0.8072090	0.8020806
BERYLLIUM	313.042	Radial	16360.04	0.9671244	0.9680736	0.9660109	0.9672888
CALCIUM	373.690	Radial	12843.70	123.2547	123.2518	123.1332	123.3791
CERIUM	535.353	Radial	30.25753	0.1670380	0.1768935	0.1809837	0.1432366
COPPER	324.754	Axial	8500.590	1.863676	1.853383	1.877340	1.860305
IRON	271.441	Radial	3484.526	163.0008	163.2836	163.2464	162.4725
LANTHANUM	333.749	Radial	5.834397	0.01272575	0.01182757	0.01223191	0.01411779
MAGNESIUM	279.079	Radial	6930.800	77.23879	77.25290	77.42719	77.03629
MANGANESE	257.610	Axial	114785.8	5.005997	4.983582	5.009830	5.024578
MOLYBDENUM	202.030	Axial	635.1355	0.9028920	0.9043101	0.9057937	0.8985722
NICKEL	231.604	Axial	1558.459	1.694400	1.686976	1.698773	1.697450
PHOSPHORUS	177.495	Axial	3196.697	16.32691	16.30799	16.30165	16.37110
POTASSIUM	766.490	Radial	2464.682	25.12090	25.02068	25.13093	25.21108
SELENIUM	196.090	Axial	134.8261	0.8145588	0.8143591	0.8159585	0.8133589
SILICON	251.611	Axial	20841.21	19.98774	20.08406	19.95940	19.91974
SODIUM	589.592	Radial	4398.090	11.28815	11.31205	11.25462	11.29779
STRONTIUM	421.552	Radial	20090.63	1.827825	1.827198	1.837669	1.818608
SULFUR	182.034	Axial	631.1764	12.32910	12.23248	12.31075	12.44407
THALLIUM	190.856	Axial	184.3718	0.9570408	0.9463667	0.9685996	0.9561560
TIN	189.989	Axial	481.3709	1.191553	1.181131	1.199889	1.193639
TITANIUM	334.941	Radial	2537.884	1.438861	1.447423	1.444270	1.424890
VANADIUM	292.402	Radial	729.6642	1.144217	1.148256	1.144801	1.139593
ZINC	206.200	Axial	19442.58	7.781953	7.777787	7.747185	7.820887

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1836966-09 Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:33 Sequence: 155

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6813.125	6799.669	6864.435	6775.270
YTTRIUM	360.073	Axial	63628.48	63297.89	64140.81	63446.72
YTTRIUM	360.073	Radial	4979.254	5001.663	4991.482	4944.618
INDIUM	230.606	Axial	1277.819	1277.544	1280.308	1275.606

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	224.0146	1.067812	1.064955	1.064544	1.073937
BARIUM	233.527	Axial	34266.58	5.385235	5.376425	5.367230	5.412050
BORON	249.678	Radial	221.1736	1.004611	0.9965572	1.005412	1.011863
CADMIUM	228.802	Axial	2170.392	0.9805723	0.9808543	0.9819676	0.9788949
CHROMIUM	267.716	Axial	3250.478	1.341167	1.339330	1.342041	1.342131
COBALT	228.616	Axial	1087.354	1.061486	1.052812	1.072982	1.058663
LEAD	220.353	Axial	6421.188	14.82792	14.78380	14.91342	14.78652
LITHIUM	670.784	Radial	1209.777	1.096470	1.098139	1.105886	1.085387
SELENIUM	196.090	Axial	134.8261	0.8145588	0.8143591	0.8159585	0.8133589
SILVER	328.068	Axial	818.4338	0.2069071	0.2071803	0.2073043	0.2062369
ALUMINUM	308.215	Radial	4881.135	80.94214	81.04893	81.02569	80.75181
ANTIMONY	206.833	Axial	111.1879	0.8029158	0.7994578	0.8072090	0.8020806
BERYLLIUM	313.042	Radial	16360.04	0.9671244	0.9680736	0.9660109	0.9672888
CALCIUM	373.690	Radial	12843.70	123.2547	123.2518	123.1332	123.3791
CERIUM	535.353	Radial	30.25753	0.1670380	0.1768935	0.1809837	0.1432366
COPPER	324.754	Axial	8500.590	1.863676	1.853383	1.877340	1.860305
IRON	271.441	Radial	3484.526	163.0008	163.2836	163.2464	162.4725
LANTHANUM	333.749	Radial	5.834397	0.01272575	0.01182757	0.01223191	0.01411779
MAGNESIUM	279.079	Radial	6930.800	77.23879	77.25290	77.42719	77.03629
MANGANESE	257.610	Axial	114785.8	5.005997	4.983582	5.009830	5.024578
MOLYBDENUM	202.030	Axial	635.1355	0.9028920	0.9043101	0.9057937	0.8985722
NICKEL	231.604	Axial	1558.459	1.694400	1.686976	1.698773	1.697450
PHOSPHORUS	177.495	Axial	3196.697	16.32691	16.30799	16.30165	16.37110
POTASSIUM	766.490	Radial	2464.682	25.12090	25.02068	25.13093	25.21108
SILICON	251.611	Axial	20841.21	19.98774	20.08406	19.95940	19.91974
SODIUM	589.592	Radial	4398.090	11.28815	11.31205	11.25462	11.29779
STRONTIUM	421.552	Radial	20090.63	1.827825	1.827198	1.837669	1.818608
SULFUR	182.034	Axial	631.1764	12.32910	12.23248	12.31075	12.44407
THALLIUM	190.856	Axial	184.3718	0.9570408	0.9463667	0.9685996	0.9561560
TIN	189.989	Axial	481.3709	1.191553	1.181131	1.199889	1.193639
TITANIUM	334.941	Radial	2537.884	1.438861	1.447423	1.444270	1.424890
VANADIUM	292.402	Radial	729.6642	1.144217	1.148256	1.144801	1.139593
ZINC	206.200	Axial	19442.58	7.781953	7.777787	7.747185	7.820887

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1836966-10 DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:34 Sequence: 156

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6874.199	6785.373	6951.695	6885.527
YTTRIUM	360.073	Axial	64339.13	64047.45	64545.15	64424.78
YTTRIUM	360.073	Radial	4941.258	4961.311	4945.580	4916.884
INDIUM	230.606	Axial	1307.330	1300.568	1313.249	1308.172

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
LEAD	220.353	Axial	724.7266	1.636653	1.638266	1.620462	1.651231
ALUMINUM	308.215	Radial	4603.048	76.92157	76.38108	77.22645	77.15718
ANTIMONY	206.833	Axial	1.920019	0.01202614	0.01431378	0.02024988	0.001514760
ARSENIC	189.042	Axial	5.321489	0.02008288	0.02060706	0.02264991	0.01699166
BARIUM	233.527	Axial	12017.71	1.872484	1.877742	1.865897	1.873814
BERYLLIUM	313.042	Radial	56.76688	0.003289155	0.003308985	0.003291705	0.003266774
BORON	249.678	Radial	6.449911	0.02628192	0.02435317	0.03160460	0.02288798
CADMIUM	228.802	Axial	18.28359	0.003980879	0.003794705	0.004043607	0.004104325
CALCIUM	373.690	Radial	8718.598	84.30999	83.85220	84.44606	84.63171
CERIUM	535.353	Radial	30.10293	0.1680466	0.1758929	0.1094110	0.2188359
CHROMIUM	267.716	Axial	671.7849	0.2770100	0.2781797	0.2749227	0.2779275
COBALT	228.616	Axial	98.50047	0.09910845	0.09978877	0.09838040	0.09915620
COPPER	324.754	Axial	1429.849	0.3103461	0.3094340	0.3090872	0.3125172
IRON	271.441	Radial	3660.432	172.5533	171.8620	172.5776	173.2202
LANTHANUM	333.749	Radial	22.42980	0.04278938	0.03640591	0.04656581	0.04539641
LITHIUM	670.784	Radial	155.1721	0.1481607	0.1512503	0.1475996	0.1456322
MAGNESIUM	279.079	Radial	5712.206	64.15429	64.20202	64.28120	63.97964
MANGANESE	257.610	Axial	98472.34	4.256711	4.283609	4.220829	4.265694
MOLYBDENUM	202.030	Axial	-0.4403123	0.001173063	0.001661903	-0.0004436103	0.002300896
NICKEL	231.604	Axial	511.9384	0.5435993	0.5396755	0.5443804	0.5467421
PHOSPHORUS	177.495	Axial	1000.495	5.060275	5.052826	5.053188	5.074812
POTASSIUM	766.490	Radial	944.8975	9.903634	9.871948	9.862262	9.976691
SELENIUM	196.090	Axial	-1.16488	-0.02890329	-0.02218322	-0.03556668	-0.02895998
SILICON	251.611	Axial	14633.69	13.87569	13.88215	13.92144	13.82348
SILVER	328.068	Axial	-1.58409	0.003541459	0.003385130	0.003540208	0.003699040
SODIUM	589.592	Radial	313.3538	0.8514787	0.8423147	0.8546912	0.8574303
STRONTIUM	421.552	Radial	5316.881	0.4871048	0.4817618	0.4931325	0.4864200
SULFUR	182.034	Axial	78.13602	1.446849	1.456619	1.438221	1.445707
THALLIUM	190.856	Axial	-2.08752	-0.004566920	-0.007706480	-0.003150571	-0.002843709
TIN	189.989	Axial	13.12955	0.03386050	0.03326485	0.03352011	0.03479655
TITANIUM	334.941	Radial	713.2766	0.4086820	0.4061435	0.4081805	0.4117220
VANADIUM	292.402	Radial	139.1255	0.2210599	0.2194929	0.2225273	0.2211595
ZINC	206.200	Axial	4327.363	1.711517	1.711402	1.708211	1.714939

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-03 DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:36 Sequence: 157

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7056.040	7013.692	7075.105	7079.325
YTTRIUM	360.073	Axial	65722.90	65674.84	65553.56	65940.29
YTTRIUM	360.073	Radial	5049.024	5045.503	5063.825	5037.744
INDIUM	230.606	Axial	1315.680	1308.776	1308.020	1330.244

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.958156	0.01777820	0.02476237	0.01454446	0.01402776
BARIUM	233.527	Axial	4977.238	0.7560260	0.7543742	0.7552404	0.7584636
BORON	249.678	Radial	-0.3311514	-0.004819783	-0.003687800	-0.005780772	-0.004990778
CADMIUM	228.802	Axial	10.13947	0.0002006233	-0.0002177974	0.0003403032	0.0004793641
CHROMIUM	267.716	Axial	127.5470	0.05357390	0.05475092	0.05261525	0.05335553
COBALT	228.616	Axial	32.36573	0.03614305	0.03687082	0.03589124	0.03566709
LEAD	220.353	Axial	40.67901	0.09217556	0.09186868	0.09185676	0.09280125
LITHIUM	670.784	Radial	21.19837	0.02621388	0.02677747	0.03000867	0.02185549
SILVER	328.068	Axial	-5.25638	0.002668195	0.002081450	0.003062129	0.002861005
ALUMINUM	308.215	Radial	2174.123	35.57964	35.50553	35.82369	35.40969
ANTIMONY	206.833	Axial	0.4066195	0.001110723	0.0008198830	0.003388552	-0.0008762660
BERYLLIUM	313.042	Radial	84.00331	0.004805049	0.004949674	0.004746075	0.004719399
CALCIUM	373.690	Radial	26681.87	252.5196	252.9280	253.4855	251.1454
CERIUM	535.353	Radial	31.70102	0.1780623	0.2084759	0.1732527	0.1524583
COPPER	324.754	Axial	365.2875	0.07790448	0.07813391	0.07860417	0.07697536
IRON	271.441	Radial	1886.343	86.99635	87.37292	87.07925	86.53687
LANTHANUM	333.749	Radial	45.26929	0.08228896	0.08677643	0.08002290	0.08006754
MAGNESIUM	279.079	Radial	1313.554	14.46615	14.48654	14.50870	14.40320
MANGANESE	257.610	Axial	81233.94	3.420976	3.426477	3.414698	3.421752
MOLYBDENUM	202.030	Axial	0.01676499	0.001808650	0.002133850	0.001879068	0.001413033
NICKEL	231.604	Axial	74.11500	0.07768416	0.07815854	0.08006573	0.07482821
PHOSPHORUS	177.495	Axial	508.6170	2.503070	2.496569	2.526070	2.486572
POTASSIUM	766.490	Radial	443.7227	4.726322	4.760292	4.801808	4.616867
SELENIUM	196.090	Axial	1.250561	-0.01431170	-0.01674978	-0.01029613	-0.01588920
SILICON	251.611	Axial	15529.01	14.41482	14.26477	14.38322	14.59646
SODIUM	589.592	Radial	197.0572	0.5410105	0.5616286	0.5389637	0.5224392
STRONTIUM	421.552	Radial	6436.624	0.5771803	0.5778375	0.5807442	0.5729592
SULFUR	182.034	Axial	112.6906	2.063192	2.044268	2.072548	2.072761
THALLIUM	190.856	Axial	-1.70174	-0.002590036	-0.005046492	-0.005656629	0.002933013
TIN	189.989	Axial	0.9361141	0.004405056	0.005809794	0.004204369	0.003201003
TITANIUM	334.941	Radial	245.3307	0.1386311	0.1394115	0.1388745	0.1376073
VANADIUM	292.402	Radial	84.96197	0.1327164	0.1368080	0.1322256	0.1291156
ZINC	206.200	Axial	484.4797	0.1808400	0.1820984	0.1817477	0.1786739

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/20/25 12:44 Sequence: 159 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6613.576	6581.835	6649.565	6609.328
YTTRIUM	360.073	Axial	62043.81	61919.05	62355.50	61856.87
YTTRIUM	360.073	Radial	4823.298	4865.571	4792.849	4811.474
INDIUM	230.606	Axial	1292.443	1287.443	1302.877	1287.009

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	571.5836	9.824357	9.843801	9.817747	9.811522
ANTIMONY	206.833	Axial	68.24580	0.5070727	0.5137067	0.5068079	0.5007034
ARSENIC	189.042	Axial	205.0411	1.006568	1.010336	0.9996872	1.009682
BARIUM	233.527	Axial	3133.049	0.5080368	0.5073702	0.5063226	0.5104178
BERYLLIUM	313.042	Radial	3319.410	0.2024986	0.2024467	0.2023235	0.2027256
BORON	249.678	Radial	213.5043	1.001075	1.002393	0.9914479	1.009385
CADMIUM	228.802	Axial	1086.542	0.5036652	0.5069993	0.5011259	0.5028705
CALCIUM	317.933	Radial	11583.59	49.66415	49.57865	49.55604	49.85776
CHROMIUM	267.716	Axial	2345.479	0.9976978	0.9987466	0.9971204	0.9972263
COBALT	228.616	Axial	1002.483	0.9681080	0.9712552	0.9577532	0.9753156
COPPER	324.754	Axial	4441.891	0.9989440	1.000773	0.9917369	1.004322
IRON	259.940	Radial	2539.334	10.08036	9.982963	10.09255	10.16556
LEAD	220.353	Axial	218.7339	0.5003196	0.5023471	0.4980359	0.5005759
LITHIUM	670.784	Radial	1024.796	0.9598161	0.9553628	0.9535799	0.9705056
MAGNESIUM	279.079	Radial	891.0673	10.28329	10.28065	10.31236	10.25687
MANGANESE	257.610	Axial	22335.41	1.003948	1.003435	1.000116	1.008294
MOLYBDENUM	202.030	Axial	169.5421	0.2495869	0.2503253	0.2499702	0.2484650
NICKEL	231.604	Axial	902.2851	0.9696455	0.9682262	0.9646209	0.9760893
PHOSPHORUS	177.495	Axial	189.1160	0.9893104	1.000896	0.9798244	0.9872103
POTASSIUM	766.490	Radial	4840.264	50.59606	50.37506	50.56251	50.85061
SELENIUM	196.090	Axial	159.2855	0.9961377	1.011068	0.9905790	0.9867663
SILICON	251.611	Axial	2046.384	2.002134	1.997704	2.005892	2.002806
SILVER	328.068	Axial	1981.046	0.5078055	0.5042928	0.5040034	0.5151202
SODIUM	818.326	Radial	447.3274	48.36792	47.88874	48.99170	48.22332
STRONTIUM	421.552	Radial	10876.04	1.021283	1.021552	1.016691	1.025606
SULFUR	182.034	Axial	247.6775	4.939360	5.047165	4.908976	4.861940
THALLIUM	190.856	Axial	199.6329	1.024151	1.032383	1.016654	1.023417
TIN	189.989	Axial	201.0513	0.4933044	0.4971973	0.4928981	0.4898179
TITANIUM	334.941	Radial	1711.070	1.002022	0.9956363	1.009438	1.000991
VANADIUM	292.402	Radial	620.8952	1.005336	1.002489	1.000959	1.012559
ZINC	206.200	Axial	2496.051	1.023499	1.020769	1.014967	1.034761
CERIUM	535.353	Radial	18.02462	0.04024681	0.04508932	0.06117899	0.01447213
LANTHANUM	333.749	Radial	-8.03609	-0.01261456	-0.01057054	-0.01166197	-0.01561117

Sample ID: CCB Units: mg/l
Analyzed: 03/20/25 12:45 Sequence: 160

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6538.438	6566.027	6517.199	6532.086
YTTRIUM	360.073	Axial	63522.49	63814.74	63015.57	63737.15
YTTRIUM	360.073	Radial	4843.960	4826.811	4866.246	4838.825
INDIUM	230.606	Axial	1390.196	1395.714	1382.897	1391.977

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-2.75924	-0.002038203	0.02141203	-0.003763586	-0.02376305
ANTIMONY	206.833	Axial	1.122068	0.006739344	0.002918541	0.008644913	0.008654577
ARSENIC	189.042	Axial	0.7251081	-0.001558813	0.001155707	-0.001099900	-0.004732245
BARIUM	233.527	Axial	-6.04613	-0.0001004475	-0.0001020627	0.0001435562	-0.0003428359
BERYLLIUM	313.042	Radial	3.302700	0.0001082377	0.0002066517	0.00003868301	0.00007937849
BORON	249.678	Radial	0.1260429	-0.002738305	0.005839917	-0.001032832	-0.01302200
CADMIUM	228.802	Axial	8.240351	-0.0003429228	-0.0009883864	0.00008258060	-0.0001229627
CALCIUM	317.933	Radial	22.69127	0.004295928	0.01146937	0.004300235	-0.002881817
CERIUM	535.353	Radial	14.03176	-0.005264148	0.01515157	-0.02977744	-0.001166580
CHROMIUM	267.716	Axial	-10.0436	-0.001443147	-0.002192010	-0.0007530364	-0.001384395
COBALT	228.616	Axial	-5.35668	0.0008329940	0.002034902	0.0004481385	0.00001594133
COPPER	324.754	Axial	-5.23967	-0.0007692748	0.0006023552	-0.0009708689	-0.001939311
IRON	259.940	Radial	3.408101	0.005080952	0.004222071	0.003857430	0.007163354
LANTHANUM	333.749	Radial	0.1645325	0.002572246	0.007278027	0.001142633	-0.0007039216
LEAD	220.353	Axial	-1.04503	-0.001270577	-0.001108233	-0.002794782	0.00009128250
LITHIUM	670.784	Radial	-8.18358	-0.0001710017	0.0004553883	-0.0007288797	-0.0002395138
MAGNESIUM	279.079	Radial	-1.25430	0.02225510	0.01930958	0.02629783	0.02115788
MANGANESE	257.610	Axial	-8.67411	0.0001920275	0.0001960327	0.0003452022	0.00003484753
MOLYBDENUM	202.030	Axial	-1.40759	-0.0002961104	-0.0006031984	-0.0007220279	0.0004368950
NICKEL	231.604	Axial	1.309503	0.0006932254	-0.0007336520	0.002767484	0.00004584387
PHOSPHORUS	177.495	Axial	1.227397	0.0003996313	0.001642322	-0.002056098	0.001612670
POTASSIUM	766.490	Radial	-22.7156	0.08898256	0.05678723	0.1104695	0.09969097
SELENIUM	196.090	Axial	2.410897	-0.006208862	-0.005492281	-0.0007996200	-0.01233469
SILICON	251.611	Axial	11.56179	-0.0006128462	-0.002146454	-0.00003349757	0.0003414130
SILVER	328.068	Axial	-16.0991	-0.00006506618	-0.0001823219	0.0009801603	-0.0009930370
SODIUM	589.592	Radial	-10.7693	0.01583280	0.003293492	0.04105976	0.003145147
STRONTIUM	421.552	Radial	5.115307	-0.0000001705515	0.0001135088	-0.0001738854	0.00005986501
SULFUR	182.034	Axial	3.988971	0.006561957	0.006386550	0.01748016	-0.004180835
THALLIUM	190.856	Axial	-1.22243	0.0001573983	0.005076669	-0.003710744	-0.0008937308
TIN	189.989	Axial	-0.5059231	0.0009981652	0.001256657	-0.001146870	0.002884708
TITANIUM	334.941	Radial	-2.13008	0.0003669686	-0.001381090	0.002179661	0.0003023343
VANADIUM	292.402	Radial	-0.5250928	0.0006509268	0.0004698010	0.0005076567	0.0009753228
ZINC	206.200	Axial	9.297705	-0.002675791	-0.002479672	-0.002273697	-0.003274005

Sample ID: L1837825-05 DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:47 Sequence: 161

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6687.387	6704.216	6743.655	6614.290
YTTRIUM	360.073	Axial	61692.71	61871.83	61795.47	61410.83
YTTRIUM	360.073	Radial	5002.592	5002.064	4989.494	5016.218
INDIUM	230.606	Axial	1189.318	1187.046	1195.555	1185.354

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.201426	0.01534189	0.01893837	0.01078048	0.01630682
BARIUM	233.527	Axial	3353.051	0.5376921	0.5345685	0.5341611	0.5443466
BORON	249.678	Radial	3.605011	0.01301953	0.01629158	0.01145890	0.01130811
CADMIUM	228.802	Axial	10.76090	0.0007358966	0.0005256593	0.0005978022	0.001084228
CHROMIUM	267.716	Axial	79.03564	0.03602067	0.03553404	0.03576242	0.03676555
COBALT	228.616	Axial	35.02038	0.04215389	0.04174758	0.04200196	0.04271214
LEAD	220.353	Axial	34.95784	0.08768357	0.09094246	0.08521458	0.08689367
LITHIUM	670.784	Radial	9.542595	0.01595267	0.01784998	0.01578560	0.01422244
SILVER	328.068	Axial	-1.61459	0.003515336	0.004043015	0.003826307	0.002676688
ALUMINUM	308.215	Radial	1140.927	18.86587	18.73465	18.87381	18.98914
ANTIMONY	206.833	Axial	1.139473	0.006669384	0.01196975	0.003257906	0.004780493
BERYLLIUM	313.042	Radial	56.71251	0.003244593	0.003326575	0.003222295	0.003184910
CALCIUM	373.690	Radial	132271.2	1263.470	1261.648	1256.740	1272.023
CERIUM	535.353	Radial	23.64156	0.09386856	0.07713841	0.1055136	0.09895363
COPPER	324.754	Axial	255.3907	0.05812265	0.05754030	0.05822207	0.05860559
IRON	271.441	Radial	1368.598	63.68938	63.53857	63.38297	64.14661
LANTHANUM	333.749	Radial	27.69439	0.05167351	0.05298181	0.05087769	0.05116101
MAGNESIUM	279.079	Radial	5397.856	59.88226	60.02023	59.20651	60.42003
MANGANESE	257.610	Axial	85570.75	3.802478	3.778109	3.773598	3.855727
MOLYBDENUM	202.030	Axial	2.489528	0.005389666	0.005025709	0.004637033	0.006506256
NICKEL	231.604	Axial	74.69174	0.08666426	0.08792771	0.08502965	0.08703542
PHOSPHORUS	177.495	Axial	533.3310	2.770204	2.785759	2.736399	2.788455
POTASSIUM	766.490	Radial	474.5893	5.076383	5.095410	5.042494	5.091245
SELENIUM	196.090	Axial	3.335834	-0.0007141186	-0.001294725	-0.0001875913	-0.0006600393
SILICON	251.611	Axial	10296.31	10.17872	10.06082	10.29360	10.18174
SODIUM	589.592	Radial	320.1723	0.8588854	0.8426906	0.8532510	0.8807146
STRONTIUM	421.552	Radial	22109.17	2.002180	1.972630	2.027259	2.006650
SULFUR	182.034	Axial	244.6101	4.822527	4.824913	4.799847	4.842822
THALLIUM	190.856	Axial	-1.70197	-0.003470391	-0.007672037	-0.001418815	-0.001320320
TIN	189.989	Axial	0.2028069	0.002690495	0.003166967	0.002608926	0.002295590
TITANIUM	334.941	Radial	128.7202	0.07416902	0.07512225	0.07262784	0.07475697
VANADIUM	292.402	Radial	44.15786	0.07032344	0.06979372	0.06704190	0.07413470
ZINC	206.200	Axial	454.9520	0.1791394	0.1793298	0.1753232	0.1827650

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-08 DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:49 Sequence: 162

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6950.490	6894.225	6960.006	6997.238
YTTRIUM	360.073	Axial	64935.75	64832.51	64546.97	65427.77
YTTRIUM	360.073	Radial	5117.796	5103.677	5124.874	5124.837
INDIUM	230.606	Axial	1309.663	1307.063	1305.587	1316.339

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	7.010997	0.02775293	0.02997045	0.02682307	0.02646527
BARIUM	233.527	Axial	4214.925	0.6500890	0.6513774	0.6486623	0.6502273
BORON	249.678	Radial	-0.6645415	-0.006285514	-0.01098762	-0.005182017	-0.002686909
CADMIUM	228.802	Axial	10.66302	0.0005047263	0.001070422	0.0003429140	0.0001008427
CHROMIUM	267.716	Axial	137.8360	0.05848546	0.05655398	0.05960671	0.05929570
COBALT	228.616	Axial	59.26358	0.06176448	0.06112563	0.06214957	0.06201823
LEAD	220.353	Axial	75.80219	0.1717208	0.1737292	0.1671526	0.1742805
LITHIUM	670.784	Radial	23.49089	0.02797935	0.03058040	0.03109516	0.02226251
SILVER	328.068	Axial	-2.91898	0.003221802	0.002967994	0.003584834	0.003112579
ALUMINUM	308.215	Radial	2203.971	35.58384	35.61121	35.45967	35.68064
ANTIMONY	206.833	Axial	1.367884	0.008006644	0.01306751	0.01259079	-0.001638365
BERYLLIUM	313.042	Radial	87.46424	0.004938295	0.004948071	0.004912031	0.004954783
CALCIUM	373.690	Radial	24633.22	230.0001	230.5878	229.1946	230.2179
CERIUM	535.353	Radial	35.92475	0.2182515	0.2196210	0.1993072	0.2358263
COPPER	324.754	Axial	348.8711	0.07531790	0.07466650	0.07608503	0.07520217
IRON	271.441	Radial	2127.817	96.82152	97.40725	96.30374	96.75356
LANTHANUM	333.749	Radial	35.44145	0.06407205	0.06391206	0.06502478	0.06327929
MAGNESIUM	279.079	Radial	775.5987	8.442207	8.435702	8.408662	8.482257
MANGANESE	257.610	Axial	97329.28	4.160901	4.166805	4.149996	4.165902
MOLYBDENUM	202.030	Axial	1.552048	0.003943234	0.003993360	0.003842485	0.003993857
NICKEL	231.604	Axial	87.93920	0.09269487	0.09099385	0.09306692	0.09402385
PHOSPHORUS	177.495	Axial	522.7090	2.611865	2.618799	2.646642	2.570153
POTASSIUM	766.490	Radial	324.3859	3.499261	3.548811	3.489053	3.459920
SELENIUM	196.090	Axial	2.546966	-0.006301607	-0.004431065	-0.007783454	-0.006690302
SILICON	251.611	Axial	12796.68	12.02073	11.88246	12.10011	12.07963
SODIUM	589.592	Radial	259.2713	0.6891152	0.7079915	0.6907978	0.6685564
STRONTIUM	421.552	Radial	3613.362	0.3194479	0.3174808	0.3184366	0.3224263
SULFUR	182.034	Axial	132.8363	2.483824	2.487957	2.481324	2.482189
THALLIUM	190.856	Axial	-2.11498	-0.004682562	-0.008060879	-0.003264614	-0.002722193
TIN	189.989	Axial	0.08419203	0.002356565	0.002041936	0.003178642	0.001849116
TITANIUM	334.941	Radial	371.7283	0.2064411	0.2097010	0.2039889	0.2056333
VANADIUM	292.402	Radial	112.9609	0.1736151	0.1724007	0.1732885	0.1751561
ZINC	206.200	Axial	1125.643	0.4354609	0.4382619	0.4370146	0.4311062

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-09 DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:50 Sequence: 163

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7152.255	7207.901	7076.660	7172.203
YTTRIUM	360.073	Axial	67924.12	68084.68	67533.14	68154.55
YTTRIUM	360.073	Radial	5113.578	5133.764	5121.210	5085.761
INDIUM	230.606	Axial	1400.024	1409.474	1382.902	1407.696

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.052904	0.01335536	0.007745865	0.01955957	0.01276064
BARIUM	233.527	Axial	6062.091	0.9082767	0.9002363	0.9108677	0.9137260
BORON	249.678	Radial	-1.82340	-0.01142903	-0.01136022	-0.009261052	-0.01366583
CADMIUM	228.802	Axial	10.94473	0.0004900726	0.0008253983	0.0005880529	0.00005676663
CHROMIUM	267.716	Axial	116.6214	0.04860160	0.04919525	0.04844382	0.04816574
COBALT	228.616	Axial	40.63199	0.04163215	0.04220127	0.04239262	0.04030256
LEAD	220.353	Axial	60.86402	0.1292466	0.1287696	0.1331268	0.1258435
LITHIUM	670.784	Radial	5.149125	0.01191077	0.009873897	0.01617723	0.009681176
SILVER	328.068	Axial	-7.72364	0.002136369	0.001487590	0.002359720	0.002561796
ALUMINUM	308.215	Radial	2058.850	33.27190	33.27429	32.93589	33.60551
ANTIMONY	206.833	Axial	0.2847093	0.0002421404	-0.004080824	0.0007868521	0.004020393
BERYLLIUM	313.042	Radial	98.69034	0.005588802	0.005540033	0.005607197	0.005619175
CALCIUM	317.933	Radial	7602.725	30.71061	30.71213	30.67191	30.74779
CERIUM	535.353	Radial	36.82520	0.2280632	0.2344836	0.2408323	0.2088737
COPPER	324.754	Axial	333.7378	0.06891573	0.06867079	0.07010840	0.06796800
IRON	271.441	Radial	1715.648	78.12177	77.94560	77.59000	78.82970
LANTHANUM	333.749	Radial	37.17808	0.06715739	0.06837148	0.06422821	0.06887249
MAGNESIUM	279.079	Radial	545.1642	5.949886	5.921553	5.926601	6.001506
MANGANESE	257.610	Axial	92379.33	3.838071	3.810126	3.862851	3.841237
MOLYBDENUM	202.030	Axial	1.246331	0.003470681	0.003577641	0.003867213	0.002967190
NICKEL	231.604	Axial	102.0054	0.1006389	0.09985507	0.1007081	0.1013536
PHOSPHORUS	177.495	Axial	377.6500	1.831949	1.808049	1.832035	1.855762
POTASSIUM	766.490	Radial	194.7028	2.231357	2.251453	2.210902	2.231715
SELENIUM	196.090	Axial	2.184791	-0.008878264	-0.007082695	-0.006643159	-0.01290894
SILICON	251.611	Axial	8769.301	7.871050	7.895455	7.840100	7.877594
SODIUM	589.592	Radial	178.2456	0.4879013	0.4894079	0.4922668	0.4820291
STRONTIUM	421.552	Radial	1355.539	0.1196344	0.1219203	0.1190627	0.1179203
SULFUR	182.034	Axial	88.92171	1.589610	1.561145	1.599333	1.608352
THALLIUM	190.856	Axial	-1.36560	-0.0004738721	0.0003461072	-0.002231179	0.0004634558
TIN	189.989	Axial	0.1512455	0.002490859	0.002277975	0.002083068	0.003111534
TITANIUM	334.941	Radial	208.3654	0.1165153	0.1176022	0.1158738	0.1160700
VANADIUM	292.402	Radial	93.79758	0.1445322	0.1449468	0.1452397	0.1434102
ZINC	206.200	Axial	589.5445	0.2184189	0.2185674	0.2212325	0.2154567

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-10 DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:52 Sequence: 164

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6918.214	6823.436	6977.053	6954.154
YTTRIUM	360.073	Axial	64964.59	64104.39	65782.76	65006.62
YTTRIUM	360.073	Radial	5012.720	5000.825	5022.799	5014.535
INDIUM	230.606	Axial	1339.109	1320.183	1360.646	1336.498

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	2.558065	0.006931083	0.01301735	0.007040192	0.0007357105
BARIUM	233.527	Axial	3188.252	0.4942818	0.4993329	0.4895785	0.4939339
BORON	249.678	Radial	0.1331825	-0.002720927	0.003468983	-0.008484231	-0.003147532
CADMIUM	228.802	Axial	11.66648	0.0009777752	0.001762375	0.0009066155	0.0002643349
CHROMIUM	267.716	Axial	55.75122	0.02546436	0.02469787	0.02575273	0.02594249
COBALT	228.616	Axial	19.36326	0.02357015	0.02494868	0.02251987	0.02324191
LEAD	220.353	Axial	37.92357	0.08454125	0.08723430	0.08142523	0.08496420
LITHIUM	670.784	Radial	-0.4005239	0.007040560	0.004122683	0.005430480	0.01156852
SILVER	328.068	Axial	-11.4215	0.001150636	0.0006176041	0.001855310	0.0009789949
ALUMINUM	308.215	Radial	1053.411	17.38731	17.45710	17.26914	17.43569
ANTIMONY	206.833	Axial	0.4755856	0.001631463	-0.001446002	0.009292901	-0.002952509
BERYLLIUM	313.042	Radial	54.73668	0.003121724	0.003068531	0.003136858	0.003159784
CALCIUM	373.690	Radial	13650.99	130.1272	130.0487	129.9640	130.3690
CERIUM	535.353	Radial	26.41781	0.1233570	0.1179580	0.1563881	0.09572500
COPPER	324.754	Axial	179.1059	0.03883720	0.03911661	0.03874234	0.03865264
IRON	271.441	Radial	896.0907	41.59819	41.63225	41.55259	41.60973
LANTHANUM	333.749	Radial	25.87078	0.04832614	0.04805033	0.04912850	0.04779958
MAGNESIUM	279.079	Radial	677.1182	7.528758	7.515488	7.499122	7.571662
MANGANESE	257.610	Axial	66808.95	2.869898	2.905353	2.832993	2.871346
MOLYBDENUM	202.030	Axial	-0.3923095	0.001231806	0.0006271018	0.002045764	0.001022551
NICKEL	231.604	Axial	35.44239	0.03616626	0.03530299	0.03489311	0.03830270
PHOSPHORUS	177.495	Axial	337.0541	1.690030	1.719256	1.669184	1.681649
POTASSIUM	766.490	Radial	240.1495	2.723959	2.748087	2.705819	2.717971
SELENIUM	196.090	Axial	2.221975	-0.008232742	-0.009737463	-0.006471697	-0.008489067
SILICON	251.611	Axial	8402.238	7.885708	7.875420	7.760804	8.020900
SODIUM	589.592	Radial	134.2511	0.3851194	0.3889205	0.3940427	0.3723950
STRONTIUM	421.552	Radial	3407.863	0.3075824	0.3070415	0.3032952	0.3124104
SULFUR	182.034	Axial	70.49178	1.289240	1.300881	1.270947	1.295892
THALLIUM	190.856	Axial	-0.9854631	0.001091123	-0.0005956734	0.004019037	-0.0001499955
TIN	189.989	Axial	-0.1543227	0.001804668	0.003100284	-0.00005486242	0.002368583
TITANIUM	334.941	Radial	288.1042	0.1636890	0.1656218	0.1628012	0.1626441
VANADIUM	292.402	Radial	51.24321	0.08121708	0.08494883	0.08017452	0.07852787
ZINC	206.200	Axial	273.2448	0.1012643	0.1050610	0.09875259	0.09997936

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1836966-07 DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:54 Sequence: 165

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6812.634	6739.422	6828.673	6869.808
YTTRIUM	360.073	Axial	64296.03	64398.18	63884.09	64605.81
YTTRIUM	360.073	Radial	5026.059	4998.245	5014.734	5065.199
INDIUM	230.606	Axial	1299.046	1288.241	1296.183	1312.715

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
LEAD	220.353	Axial	10209.27	23.19047	23.35498	23.11022	23.10621
ALUMINUM	308.215	Radial	5461.320	89.71586	89.76066	89.72035	89.66657
ANTIMONY	206.833	Axial	2.662275	0.01756975	0.02030961	0.02469927	0.007700373
ARSENIC	189.042	Axial	12.63636	0.05533084	0.05091075	0.05704678	0.05803500
BARIUM	233.527	Axial	18464.66	2.902526	2.925249	2.881912	2.900416
BERYLLIUM	313.042	Radial	61.12789	0.003487519	0.003359670	0.003637727	0.003465159
BORON	249.678	Radial	12.41538	0.05272657	0.05324451	0.05433337	0.05060184
CADMIUM	228.802	Axial	31.28980	0.009957755	0.009838527	0.01006243	0.009972306
CALCIUM	373.690	Radial	6006.375	57.10036	57.23385	57.23232	56.83492
CERIUM	535.353	Radial	32.34651	0.1865490	0.1729300	0.1924089	0.1943082
CHROMIUM	267.716	Axial	823.7135	0.3420264	0.3406482	0.3435043	0.3419269
COBALT	228.616	Axial	109.6849	0.1103877	0.1112598	0.1095899	0.1103134
COPPER	324.754	Axial	2404.334	0.5219404	0.5224959	0.5200834	0.5232419
IRON	271.441	Radial	4301.953	199.3837	200.6368	199.0783	198.4359
LANTHANUM	333.749	Radial	22.28587	0.04183753	0.04474164	0.03773010	0.04304085
LITHIUM	670.784	Radial	175.9800	0.1643760	0.1713484	0.1623726	0.1594071
MAGNESIUM	279.079	Radial	6415.635	70.83486	70.84475	70.64471	71.01513
MANGANESE	257.610	Axial	104936.0	4.577027	4.630308	4.519752	4.581020
MOLYBDENUM	202.030	Axial	1.477541	0.003878940	0.003603479	0.003665436	0.004367905
NICKEL	231.604	Axial	546.2215	0.5837611	0.5838119	0.5848302	0.5826412
PHOSPHORUS	177.495	Axial	1512.855	7.724051	7.721416	7.725441	7.725296
POTASSIUM	766.490	Radial	2189.316	22.14517	22.19194	22.12170	22.12188
SELENIUM	196.090	Axial	-1.52168	-0.03125651	-0.03360287	-0.03426453	-0.02590214
SILICON	251.611	Axial	19694.95	18.69249	18.34787	19.08862	18.64098
SILVER	328.068	Axial	11.52434	0.006759224	0.007829358	0.006578869	0.005869446
SODIUM	589.592	Radial	412.6918	1.089424	1.091904	1.082989	1.093380
STRONTIUM	421.552	Radial	6185.212	0.5571610	0.5583399	0.5559450	0.5571980
SULFUR	182.034	Axial	105.6399	2.001003	1.984956	2.014543	2.003512
THALLIUM	190.856	Axial	-2.46103	-0.006487842	0.002023882	-0.01117847	-0.01030894
TIN	189.989	Axial	39.22119	0.09748285	0.09585487	0.1007893	0.09580437
TITANIUM	334.941	Radial	1251.720	0.7039332	0.7129930	0.6999254	0.6988813
VANADIUM	292.402	Radial	166.0440	0.2591192	0.2578990	0.2609795	0.2584791
ZINC	206.200	Axial	8850.380	3.539297	3.608303	3.466023	3.543563

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1836966-08 DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:55 Sequence: 166

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6933.244	7049.177	6922.401	6828.154
YTTRIUM	360.073	Axial	65419.66	65851.41	64947.78	65459.80
YTTRIUM	360.073	Radial	4982.464	5021.033	4982.407	4943.951
INDIUM	230.606	Axial	1331.931	1344.979	1317.370	1333.444

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
LEAD	220.353	Axial	295.8114	0.6562675	0.6562544	0.6597729	0.6527753
ALUMINUM	308.215	Radial	4811.589	79.74034	79.35181	79.93033	79.93888
ANTIMONY	206.833	Axial	0.5285446	0.002137462	-0.006637761	-0.001314629	0.01436478
ARSENIC	189.042	Axial	3.769206	0.01259491	0.01180343	0.008343410	0.01763789
BARIUM	233.527	Axial	11070.59	1.710528	1.687067	1.705667	1.738850
BERYLLIUM	313.042	Radial	59.46632	0.003420452	0.003479966	0.003413336	0.003368053
BORON	249.678	Radial	3.057376	0.01058708	0.008400529	0.01658946	0.006771251
CADMIUM	228.802	Axial	9.702901	0.00007994730	0.0007618537	-0.0002028749	-0.0003191368
CALCIUM	317.933	Radial	10448.64	43.35547	43.27001	43.38858	43.40782
CERIUM	535.353	Radial	28.37898	0.1464558	0.1524025	0.1365710	0.1503938
CHROMIUM	267.716	Axial	686.2981	0.2805644	0.2777573	0.2806497	0.2832861
COBALT	228.616	Axial	110.9317	0.1089708	0.1077676	0.1106992	0.1084456
COPPER	324.754	Axial	1463.014	0.3123105	0.3091343	0.3145553	0.3132419
IRON	271.441	Radial	3709.236	173.4065	173.0319	173.9816	173.2061
LANTHANUM	333.749	Radial	24.21937	0.04564937	0.04369165	0.04914714	0.04410934
LITHIUM	670.784	Radial	160.6981	0.1519595	0.1557064	0.1509921	0.1491801
MAGNESIUM	279.079	Radial	5429.471	60.47639	60.61152	60.45538	60.36227
MANGANESE	257.610	Axial	107742.7	4.618450	4.527247	4.614995	4.713107
MOLYBDENUM	202.030	Axial	-0.4355137	0.001165672	0.002357217	0.0009740095	0.0001657891
NICKEL	231.604	Axial	499.0997	0.5201944	0.5153627	0.5254293	0.5197911
PHOSPHORUS	177.495	Axial	923.3296	4.630583	4.553307	4.619383	4.719059
POTASSIUM	766.490	Radial	1314.453	13.53998	13.46922	13.63314	13.51758
SELENIUM	196.090	Axial	-0.8548415	-0.02702731	-0.02549792	-0.02598792	-0.02959608
SILICON	251.611	Axial	12556.95	11.70789	11.78873	11.71393	11.62102
SILVER	328.068	Axial	6.160828	0.005414378	0.006047091	0.005126095	0.005069948
SODIUM	589.592	Radial	413.5306	1.100702	1.102846	1.104849	1.094411
STRONTIUM	421.552	Radial	4462.088	0.4053382	0.4031490	0.4058924	0.4069734
SULFUR	182.034	Axial	49.47031	0.8803148	0.8785011	0.8652025	0.8972408
THALLIUM	190.856	Axial	-2.70903	-0.007466115	-0.003453670	-0.01098252	-0.007962153
TIN	189.989	Axial	17.58267	0.04380931	0.04846868	0.04160647	0.04135277
TITANIUM	334.941	Radial	653.6160	0.3715491	0.3705383	0.3703168	0.3737922
VANADIUM	292.402	Radial	143.4639	0.2260319	0.2259530	0.2263877	0.2257549
ZINC	206.200	Axial	2060.485	0.8047519	0.7831903	0.8079217	0.8231437

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-01 DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:57 Sequence: 167

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6957.002	6954.061	6923.578	6993.366
YTTRIUM	360.073	Axial	64652.66	64431.09	64769.69	64757.19
YTTRIUM	360.073	Radial	5122.113	5099.750	5153.978	5112.611
INDIUM	230.606	Axial	1275.910	1270.753	1278.926	1278.051

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	2.932635	0.008592639	0.007609991	0.01215481	0.006013112
BARIUM	233.527	Axial	4569.444	0.7040347	0.7019542	0.7064619	0.7036881
BORON	249.678	Radial	3.704054	0.01308463	0.01591421	0.01091643	0.01242325
CADMIUM	228.802	Axial	16.13024	0.002926408	0.002849569	0.002720980	0.003208676
CHROMIUM	267.716	Axial	98.89697	0.04274001	0.04285731	0.04258618	0.04277655
COBALT	228.616	Axial	29.15470	0.03397275	0.03568548	0.03272004	0.03351273
LEAD	220.353	Axial	110.4582	0.2563902	0.2564942	0.2544781	0.2581983
LITHIUM	670.784	Radial	5.236379	0.01198419	0.01452660	0.01236746	0.009058501
SILVER	328.068	Axial	-2.72848	0.003267497	0.005116109	0.002294692	0.002391691
ALUMINUM	308.215	Radial	1228.596	19.83930	19.92781	19.85598	19.73410
ANTIMONY	206.833	Axial	1.567303	0.009381625	0.01984617	0.004659003	0.003639705
BERYLLIUM	313.042	Radial	64.65806	0.003623292	0.003695731	0.003659600	0.003514544
CALCIUM	373.690	Radial	60767.91	566.9160	565.1031	567.7930	567.8518
CERIUM	535.353	Radial	28.78709	0.1423986	0.1940198	0.1443103	0.08886564
COPPER	324.754	Axial	433.5101	0.09390138	0.09249114	0.09322611	0.09598691
IRON	271.441	Radial	1288.657	58.56659	58.92440	58.51959	58.25579
LANTHANUM	333.749	Radial	30.34434	0.05513142	0.04902539	0.05580071	0.06056817
MAGNESIUM	279.079	Radial	2978.549	32.28980	32.48842	32.27241	32.10858
MANGANESE	257.610	Axial	88074.27	3.761769	3.749870	3.769508	3.765928
MOLYBDENUM	202.030	Axial	1.596645	0.004003834	0.004326023	0.004038784	0.003646694
NICKEL	231.604	Axial	67.34751	0.07274024	0.07419458	0.07034721	0.07367894
PHOSPHORUS	177.495	Axial	871.9009	4.356421	4.348814	4.322323	4.398125
POTASSIUM	766.490	Radial	488.7318	5.103969	5.141163	5.069866	5.100876
SELENIUM	196.090	Axial	2.612940	-0.005930930	0.006925816	-0.01587012	-0.008848488
SILICON	251.611	Axial	14067.90	13.27379	13.13149	13.25504	13.43483
SODIUM	589.592	Radial	497.5199	1.280646	1.275011	1.281431	1.285496
STRONTIUM	421.552	Radial	8657.887	0.7654389	0.7615610	0.7685111	0.7662447
SULFUR	182.034	Axial	316.2443	6.011139	5.940324	6.017894	6.075200
THALLIUM	190.856	Axial	-1.09859	0.0002828983	-0.003946507	-0.0002840870	0.005079289
TIN	189.989	Axial	1.306436	0.005384408	0.005058025	0.005051274	0.006043926
TITANIUM	334.941	Radial	271.0438	0.1508340	0.1524840	0.1509253	0.1490929
VANADIUM	292.402	Radial	55.10000	0.08539055	0.08741337	0.08295314	0.08580515
ZINC	206.200	Axial	1497.473	0.5809020	0.5832891	0.5805750	0.5788419

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-02 DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 12:59 Sequence: 168

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6964.225	6970.774	6949.361	6972.542
YTTRIUM	360.073	Axial	64813.92	65126.54	64195.95	65119.25
YTTRIUM	360.073	Radial	5013.396	5017.413	5025.522	4997.252
INDIUM	230.606	Axial	1298.928	1308.260	1295.236	1293.287

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	2.043880	0.004400178	0.008050391	0.0008762256	0.004273918
BARIUM	233.527	Axial	13157.30	2.023426	2.022835	2.027668	2.019774
BORON	249.678	Radial	-1.39259	-0.009633645	-0.006107706	-0.01320672	-0.009586507
CADMIUM	228.802	Axial	15.10079	0.002462661	0.002545354	0.002306221	0.002536407
CHROMIUM	267.716	Axial	87.31131	0.03803163	0.03991683	0.03726095	0.03691712
COBALT	228.616	Axial	140.2943	0.1396374	0.1391492	0.1394826	0.1402805
LEAD	220.353	Axial	75.91493	0.1733948	0.1738988	0.1719461	0.1743395
LITHIUM	670.784	Radial	7.791757	0.01436067	0.01586588	0.01680849	0.01040764
SILVER	328.068	Axial	-5.77670	0.002526882	0.001900196	0.003165004	0.002515445
ALUMINUM	308.215	Radial	1533.084	25.28032	25.35698	25.37855	25.10543
ANTIMONY	206.833	Axial	1.214001	0.006866115	0.007447032	0.007974595	0.005176719
BERYLLIUM	313.042	Radial	86.77547	0.005002409	0.004930697	0.005157277	0.004919254
CALCIUM	373.690	Radial	26637.58	253.8953	253.8024	253.2351	254.6485
CERIUM	535.353	Radial	46.91202	0.3450708	0.2950141	0.3559853	0.3842129
COPPER	324.754	Axial	327.6352	0.07088964	0.07039465	0.07134953	0.07092474
IRON	271.441	Radial	1465.090	68.03667	68.03251	68.35756	67.71994
LANTHANUM	333.749	Radial	54.83758	0.09989304	0.1008923	0.09789583	0.1008909
MAGNESIUM	279.079	Radial	1216.565	13.49568	13.50362	13.53983	13.44358
MANGANESE	257.610	Axial	192933.0	8.231170	8.249382	8.225408	8.218720
MOLYBDENUM	202.030	Axial	-0.3182144	0.001343374	-0.0001252493	0.001812657	0.002342716
NICKEL	231.604	Axial	106.6918	0.1135423	0.1107269	0.1176701	0.1122298
PHOSPHORUS	177.495	Axial	253.4991	1.260973	1.258577	1.261776	1.262566
POTASSIUM	766.490	Radial	237.2250	2.694342	2.708499	2.704723	2.669805
SELENIUM	196.090	Axial	0.2616289	-0.02021732	-0.01757657	-0.02910064	-0.01397475
SILICON	251.611	Axial	8190.752	7.705121	7.657595	7.859598	7.598171
SODIUM	589.592	Radial	147.0072	0.4174526	0.4345301	0.4114351	0.4063927
STRONTIUM	421.552	Radial	6100.840	0.5509353	0.5580634	0.5496282	0.5451144
SULFUR	182.034	Axial	90.25748	1.660150	1.652816	1.664876	1.662759
THALLIUM	190.856	Axial	-1.97809	-0.004086082	-0.00008103346	-0.006230251	-0.005946962
TIN	189.989	Axial	0.6888054	0.003828783	0.003144491	0.004281986	0.004059872
TITANIUM	334.941	Radial	223.0056	0.1270490	0.1254892	0.1277805	0.1278772
VANADIUM	292.402	Radial	54.32593	0.08599437	0.08574784	0.08776895	0.08446632
ZINC	206.200	Axial	3613.516	1.409539	1.417541	1.401497	1.409579

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-06 DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 13:00 Sequence: 169

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7069.953	7012.534	7089.272	7108.053
YTTRIUM	360.073	Axial	67097.63	67031.13	66799.53	67462.25
YTTRIUM	360.073	Radial	5134.567	5143.476	5121.408	5138.818
INDIUM	230.606	Axial	1384.826	1378.627	1384.301	1391.549

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.798626	0.01698007	0.01873024	0.01299916	0.01921082
BARIUM	233.527	Axial	3583.879	0.5435742	0.5463596	0.5429972	0.5413657
BORON	249.678	Radial	-1.31748	-0.009153138	-0.01126764	-0.008120795	-0.008070985
CADMIUM	228.802	Axial	10.35658	0.0002902835	0.0007095917	0.0006378954	-0.0004766368
CHROMIUM	267.716	Axial	122.5514	0.05148984	0.05180221	0.05134206	0.05132526
COBALT	228.616	Axial	53.53931	0.05358790	0.05358355	0.05334293	0.05383723
LEAD	220.353	Axial	52.43122	0.1126637	0.1125228	0.1128114	0.1126569
LITHIUM	670.784	Radial	5.885868	0.01254016	0.01203472	0.01343559	0.01215017
SILVER	328.068	Axial	-3.08786	0.003203000	0.002742220	0.003176908	0.003689873
ALUMINUM	308.215	Radial	2347.947	37.78184	37.66919	37.84228	37.83404
ANTIMONY	206.833	Axial	1.466419	0.008499311	0.009713985	0.005294154	0.01048979
BERYLLIUM	313.042	Radial	83.22680	0.004679047	0.004609842	0.004785557	0.004641743
CALCIUM	317.933	Radial	10274.78	41.36657	41.19803	41.40668	41.49501
CERIUM	535.353	Radial	33.47320	0.1911250	0.1957058	0.2021081	0.1755609
COPPER	324.754	Axial	287.4679	0.06013861	0.05977483	0.06049772	0.06014327
IRON	271.441	Radial	1793.441	81.33052	81.39131	81.27155	81.32868
LANTHANUM	333.749	Radial	37.08090	0.06672148	0.06327694	0.06690261	0.06998489
MAGNESIUM	279.079	Radial	648.5842	7.042756	7.027458	7.062020	7.038792
MANGANESE	257.610	Axial	81026.08	3.405567	3.421709	3.405289	3.389703
MOLYBDENUM	202.030	Axial	0.3032989	0.002200838	0.002345943	0.003149096	0.001107475
NICKEL	231.604	Axial	65.64070	0.06525192	0.06491472	0.06443635	0.06640469
PHOSPHORUS	177.495	Axial	365.2172	1.792053	1.782583	1.798626	1.794951
POTASSIUM	766.490	Radial	281.9341	3.074691	3.066706	3.115215	3.042152
SELENIUM	196.090	Axial	2.320415	-0.007904387	-0.003107626	-0.009930541	-0.01067499
SILICON	251.611	Axial	11911.41	10.82765	10.78145	10.89795	10.80355
SODIUM	589.592	Radial	239.8012	0.6387205	0.6316615	0.6442598	0.6402402
STRONTIUM	421.552	Radial	1316.768	0.1157269	0.1155839	0.1149760	0.1166207
SULFUR	182.034	Axial	110.1720	2.011327	2.007066	2.014852	2.012064
THALLIUM	190.856	Axial	-1.84644	-0.002825651	-0.005805921	0.0006771196	-0.003348151
TIN	189.989	Axial	0.2079914	0.002626568	0.002870295	0.002347366	0.002662045
TITANIUM	334.941	Radial	275.1682	0.1527366	0.1513469	0.1528161	0.1540467
VANADIUM	292.402	Radial	95.55779	0.1466244	0.1490651	0.1478385	0.1429696
ZINC	206.200	Axial	1044.598	0.3966963	0.3986802	0.3937451	0.3976637

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-07 DF: 1x Batch: WG2472738 Units: mg/kg
Analyzed: 03/20/25 13:02 Sequence: 170

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6856.041	6860.100	6851.183	6856.840
YTTRIUM	360.073	Axial	63182.91	63047.37	63762.10	62739.26
YTTRIUM	360.073	Radial	4998.938	4990.953	5000.315	5005.547
INDIUM	230.606	Axial	1212.450	1213.815	1220.289	1203.246

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	7.116910	0.02870368	0.02533240	0.03570478	0.02507384
BARIUM	233.527	Axial	4208.049	0.6579543	0.6612895	0.6582998	0.6542736
BORON	249.678	Radial	-1.57805	-0.01049768	-0.01121183	-0.01422926	-0.006051939
CADMIUM	228.802	Axial	14.21563	0.002169118	0.003079775	0.001415028	0.002012553
CHROMIUM	267.716	Axial	135.7211	0.05839455	0.05761693	0.05975078	0.05781593
COBALT	228.616	Axial	35.67973	0.04212708	0.04271566	0.04259275	0.04107283
LEAD	220.353	Axial	99.51589	0.2431227	0.2386438	0.2475138	0.2432105
LITHIUM	670.784	Radial	16.65137	0.02233336	0.02315275	0.02414562	0.01970170
SILVER	328.068	Axial	0.1120226	0.003950582	0.003647214	0.005466952	0.002737581
ALUMINUM	308.215	Radial	2195.264	36.28512	36.31802	36.38787	36.14947
ANTIMONY	206.833	Axial	0.3220167	0.0005851648	-0.004796790	-0.004183400	0.01073568
BERYLLIUM	313.042	Radial	98.76669	0.005723518	0.005814464	0.005584564	0.005771527
CALCIUM	373.690	Radial	99672.82	952.7900	950.2577	956.3867	951.7257
CERIUM	535.353	Radial	33.22498	0.1980297	0.2003340	0.2392139	0.1545410
COPPER	324.754	Axial	579.8429	0.1283794	0.1277729	0.1290227	0.1283427
IRON	271.441	Radial	2025.907	94.37418	94.49191	94.53697	94.09365
LANTHANUM	333.749	Radial	37.93186	0.06998927	0.07114310	0.06919757	0.06962716
MAGNESIUM	279.079	Radial	3270.250	36.32082	36.33439	36.36061	36.26747
MANGANESE	257.610	Axial	77872.94	3.375092	3.387515	3.379464	3.358297
MOLYBDENUM	202.030	Axial	1.849201	0.004391557	0.005401302	0.003874612	0.003898758
NICKEL	231.604	Axial	124.3547	0.1419236	0.1466359	0.1386574	0.1404774
PHOSPHORUS	177.495	Axial	524.9473	2.659187	2.645788	2.617038	2.714737
POTASSIUM	766.490	Radial	291.1418	3.241611	3.278811	3.329276	3.116746
SELENIUM	196.090	Axial	2.392637	-0.007044377	-0.01200300	-0.003294678	-0.005835451
SILICON	251.611	Axial	12085.21	11.66771	11.82605	11.49773	11.67936
SODIUM	589.592	Radial	310.5718	0.8350700	0.8485484	0.8300425	0.8266193
STRONTIUM	421.552	Radial	22730.34	2.059922	2.046420	2.066871	2.066476
SULFUR	182.034	Axial	114.7907	2.166640	2.157255	2.153498	2.189167
THALLIUM	190.856	Axial	-2.02576	-0.005044468	-0.004802927	-0.005716897	-0.004613579
TIN	189.989	Axial	178.4440	0.4668699	0.4691938	0.4581727	0.4732432
TITANIUM	334.941	Radial	356.1855	0.2025377	0.2018193	0.2013094	0.2044842
VANADIUM	292.402	Radial	85.62754	0.1350695	0.1336394	0.1359153	0.1356539
ZINC	206.200	Axial	10785.92	4.287060	4.270886	4.325799	4.264495

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/20/25 13:04 Sequence: 171 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6578.689	6672.811	6562.681	6500.575
YTTRIUM	360.073	Axial	61923.64	63089.61	61615.91	61065.41
YTTRIUM	360.073	Radial	4719.604	4774.425	4715.113	4669.275
INDIUM	230.606	Axial	1295.261	1308.761	1291.901	1285.119

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	563.6914	9.901335	9.888985	9.919296	9.895724
ANTIMONY	206.833	Axial	69.16384	0.5167506	0.5053276	0.5138321	0.5310920
ARSENIC	189.042	Axial	204.9925	1.011757	1.004842	1.004256	1.026173
BARIUM	233.527	Axial	3153.387	0.5140299	0.5138161	0.5156783	0.5125954
BERYLLIUM	313.042	Radial	3255.066	0.2029424	0.2017066	0.2039124	0.2032083
BORON	249.678	Radial	209.4158	1.003532	1.003542	0.9948996	1.012153
CADMIUM	228.802	Axial	1097.447	0.5115015	0.5088696	0.5099987	0.5156361
CALCIUM	317.933	Radial	11356.55	49.75985	49.81841	49.82269	49.63845
CHROMIUM	267.716	Axial	2380.673	1.018001	1.015365	1.017689	1.020950
COBALT	228.616	Axial	1006.563	0.9698636	0.9716627	0.9737444	0.9641837
COPPER	324.754	Axial	4484.315	1.010514	0.9997082	1.018036	1.013798
IRON	259.940	Radial	2521.354	10.22860	10.27364	10.13224	10.27993
LEAD	220.353	Axial	220.1180	0.5023743	0.5021494	0.5047894	0.5001841
LITHIUM	670.784	Radial	1000.011	0.9571370	0.9570893	0.9741122	0.9402094
MAGNESIUM	279.079	Radial	877.5542	10.35020	10.26290	10.35352	10.43419
MANGANESE	257.610	Axial	22468.68	1.015285	1.012496	1.021706	1.011651
MOLYBDENUM	202.030	Axial	171.2853	0.2534698	0.2524388	0.2538596	0.2541111
NICKEL	231.604	Axial	911.1453	0.9770229	0.9752601	0.9820933	0.9737151
PHOSPHORUS	177.495	Axial	191.5380	1.007399	1.005943	1.002131	1.014122
POTASSIUM	766.490	Radial	4779.772	51.05939	50.80622	51.11875	51.25318
SELENIUM	196.090	Axial	159.6443	1.003823	1.002113	1.004191	1.005166
SILICON	251.611	Axial	2086.160	2.045454	2.029228	2.043477	2.063657
SILVER	328.068	Axial	1992.762	0.5117726	0.5092277	0.5160926	0.5099976
SODIUM	818.326	Radial	438.7305	48.48161	47.93523	49.04931	48.46030
STRONTIUM	421.552	Radial	10625.51	1.019638	1.023146	1.026277	1.009490
SULFUR	182.034	Axial	251.7847	5.049880	4.995326	5.027783	5.126530
THALLIUM	190.856	Axial	201.9295	1.033564	1.039776	1.028917	1.032001
TIN	189.989	Axial	203.6773	0.4986454	0.4964022	0.5010125	0.4985215
TITANIUM	334.941	Radial	1682.506	1.006985	0.9926440	1.013699	1.014613
VANADIUM	292.402	Radial	610.2592	1.009844	1.005893	1.008976	1.014663
ZINC	206.200	Axial	2481.577	1.022974	1.017240	1.029279	1.022402
CERIUM	535.353	Radial	19.33889	0.05945594	0.1419982	-0.02619463	0.06256423
LANTHANUM	333.749	Radial	-9.11764	-0.01500169	-0.01102805	-0.01748799	-0.01648902

Sample ID: CCB Units: mg/l
Analyzed: 03/20/25 13:05 Sequence: 172

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6534.123	6513.765	6546.652	6541.953
YTTRIUM	360.073	Axial	63231.66	63334.58	63163.93	63196.48
YTTRIUM	360.073	Radial	4809.748	4823.021	4826.448	4779.774
INDIUM	230.606	Axial	1385.010	1385.627	1384.228	1385.175

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.59460	-0.05106513	-0.05985018	-0.03618159	-0.05716362
ANTIMONY	206.833	Axial	0.7534042	0.003950075	-0.0002577812	-0.0009598430	0.01306785
ARSENIC	189.042	Axial	0.5003817	-0.002672724	-0.001725973	-0.004037628	-0.002254570
BARIUM	233.527	Axial	-5.93484	-0.00008310648	-0.00009265636	0.00007320603	-0.0002298691
BERYLLIUM	313.042	Radial	3.485521	0.0001203138	0.0002815752	0.00007242240	0.000006943921
BORON	249.678	Radial	-0.3464219	-0.004967837	-0.004157296	-0.005440786	-0.005305428
CADMIUM	228.802	Axial	8.881444	-0.00003812778	0.0002169189	0.00005638962	-0.0003876919
CALCIUM	317.933	Radial	22.76081	0.005259061	0.006737307	0.01033650	-0.001296620
CERIUM	535.353	Radial	17.63861	0.03644635	-0.01309920	0.08557688	0.03686138
CHROMIUM	267.716	Axial	-8.26888	-0.0006876229	-0.001737072	0.0002501910	-0.0005759876
COBALT	228.616	Axial	-6.07028	0.0001777109	0.0002693566	0.0002773012	-0.00001352518
COPPER	324.754	Axial	-4.68485	-0.0006510883	-0.0004309235	-0.001025347	-0.0004969945
IRON	259.940	Radial	3.029945	0.003673023	0.007804202	-0.001502412	0.004717280
LANTHANUM	333.749	Radial	-2.36063	-0.002131776	0.001707485	-0.001465469	-0.006637346
LEAD	220.353	Axial	-0.9169838	-0.001002553	-0.0008670801	-0.0006705782	-0.001470001
LITHIUM	670.784	Radial	-6.82436	0.001047956	-0.001318490	0.0008816980	0.003580661
MAGNESIUM	279.079	Radial	-3.02042	0.001791593	0.008671571	-0.002979494	-0.0003172982
MANGANESE	257.610	Axial	-9.04502	0.0001750239	0.0003111933	0.00002988701	0.0001839913
MOLYBDENUM	202.030	Axial	-1.03938	0.0002496638	0.001875241	-0.001002070	-0.0001241796
NICKEL	231.604	Axial	1.023898	0.0004055518	0.001336800	0.00002022564	-0.0001403703
PHOSPHORUS	177.495	Axial	1.476607	0.001740736	0.005697005	0.004122432	-0.004597229
POTASSIUM	766.490	Radial	-15.4404	0.1631114	0.2180300	0.1248980	0.1464063
SELENIUM	196.090	Axial	3.419005	0.0003149118	-0.001163216	0.009055139	-0.006947188
SILICON	251.611	Axial	13.15235	0.0009720815	0.00009437549	0.001571687	0.001250182
SILVER	328.068	Axial	-15.2892	0.0001147989	-0.0001371520	0.00001955843	0.0004619904
SODIUM	589.592	Radial	-8.67840	0.02124398	0.02732741	0.009260649	0.02714389
STRONTIUM	421.552	Radial	5.251695	0.00001598043	-0.0001512353	0.00007207752	0.0001270991
SULFUR	182.034	Axial	3.447173	-0.004500532	-0.009464394	-0.01074549	0.006708293
THALLIUM	190.856	Axial	-2.02552	-0.003673809	-0.005115575	-0.005337220	-0.0005686318
TIN	189.989	Axial	-1.50854	-0.001286957	-0.001248978	-0.001737585	-0.0008743073
TITANIUM	334.941	Radial	-0.6001571	0.001260924	0.0008062655	0.001397908	0.001578599
VANADIUM	292.402	Radial	-1.27981	-0.0005824540	-0.002495676	0.002308227	-0.001559912
ZINC	206.200	Axial	9.378113	-0.002640284	-0.003065554	-0.002377350	-0.002477948

Sample ID: CCVLL Units: mg/l
Analyzed: 03/20/25 15:19 Sequence: 235 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6462.045	6437.633	6481.820	6466.682
YTTRIUM	360.073	Axial	62411.32	62137.13	63086.40	62010.44
YTTRIUM	360.073	Radial	4809.131	4830.987	4807.797	4788.608
INDIUM	230.606	Axial	1349.610	1339.756	1367.147	1341.927

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.056780	0.1832455	0.1544737	0.2127833	0.1824795
ANTIMONY	206.833	Axial	1.366819	0.008699703	0.01233048	0.01450045	-0.0007318230
ARSENIC	189.042	Axial	3.865212	0.01433123	0.007937867	0.02056788	0.01448793
BARIUM	233.527	Axial	24.96620	0.005025249	0.004955963	0.004992486	0.005127298
BERYLLIUM	313.042	Radial	35.95115	0.002108034	0.002061007	0.002155834	0.002107261
BORON	249.678	Radial	42.43617	0.1968889	0.1998177	0.1951843	0.1956649
CADMIUM	228.802	Axial	13.14242	0.002046227	0.001807935	0.002407742	0.001923003
CALCIUM	317.933	Radial	253.7570	1.000463	0.9974036	0.9959146	1.008071
CHROMIUM	267.716	Axial	14.62775	0.009212170	0.008321642	0.009611550	0.009703317
COBALT	228.616	Axial	2.885829	0.008261871	0.009174519	0.009532333	0.006078761
COPPER	324.754	Axial	34.28024	0.008053123	0.007756607	0.006391806	0.01001095
IRON	259.940	Radial	28.82903	0.1064572	0.1097548	0.1072105	0.1024064
LEAD	220.353	Axial	1.925621	0.005154750	0.005205766	0.006130013	0.004128470
LITHIUM	670.784	Radial	10.15006	0.01685963	0.01810762	0.01541348	0.01705781
MAGNESIUM	279.079	Radial	88.24415	1.054345	1.060605	1.051344	1.051085
MANGANESE	257.610	Axial	204.5521	0.009990311	0.009907469	0.01001885	0.01004462
MOLYBDENUM	202.030	Axial	2.606817	0.005680927	0.003989454	0.006518774	0.006534552
NICKEL	231.604	Axial	9.909606	0.009582072	0.01004561	0.009763041	0.008937563
PHOSPHORUS	177.495	Axial	20.17836	0.1025679	0.1027161	0.1026633	0.1023242
POTASSIUM	766.490	Radial	76.64550	1.122186	1.172936	1.141092	1.052529
SELENIUM	196.090	Axial	4.603434	0.008295403	-0.001719588	0.01070409	0.01590171
SILICON	251.611	Axial	213.7898	0.1974296	0.1972008	0.1967077	0.1983804
SILVER	328.068	Axial	3.826585	0.004892488	0.003930284	0.005934519	0.004812660
SODIUM	589.592	Radial	373.5776	1.033019	1.044719	1.029568	1.024769
STRONTIUM	421.552	Radial	116.3806	0.01048662	0.01058390	0.01032271	0.01055324
SULFUR	182.034	Axial	53.57384	1.034935	1.046014	1.030903	1.027886
THALLIUM	190.856	Axial	0.9491475	0.01056796	0.01074690	0.01607354	0.004883434
TIN	189.989	Axial	20.65507	0.05046016	0.05105700	0.05262527	0.04769821
TITANIUM	334.941	Radial	83.14570	0.05037020	0.04905913	0.05023496	0.05181650
VANADIUM	292.402	Radial	13.94233	0.02410504	0.02357681	0.02437415	0.02436416
ZINC	206.200	Axial	141.5910	0.05324350	0.05319883	0.05335473	0.05317693
CERIUM	535.353	Radial	17.95488	0.03999832	0.06098939	0.03147772	0.02752783
LANTHANUM	333.749	Radial	-3.10862	-0.003508024	-0.004330885	-0.0008420951	-0.005351092

Sample ID: ICSA Units: mg/l
Analyzed: 03/20/25 15:21 Sequence: 236 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6636.818	5994.108	7731.106	6185.238
YTTRIUM	360.073	Axial	57365.27	46505.99	68485.50	57104.31
YTTRIUM	360.073	Radial	4648.114	4697.953	4648.128	4598.261
INDIUM	230.606	Axial	1236.210	1158.506	1405.625	1144.500

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28709.22	509.7632	508.6554	510.3144	510.3198
ANTIMONY	206.833	Axial	-1.22926	-0.01016302	-0.01095849	-0.01927227	-0.0002582887
ARSENIC	189.042	Axial	-2.42997	-0.01694434	-0.01531526	-0.01902492	-0.01649283
BARIUM	233.527	Axial	-0.1246227	0.0008688936	0.0002819626	0.0008001970	0.001524521
BERYLLIUM	313.042	Radial	9.486642	0.0005092356	0.0003417993	0.0005340093	0.0006518982
BORON	249.678	Radial	-6.88196	-0.03690791	-0.04057104	-0.03544556	-0.03470714
CADMIUM	228.802	Axial	7.615070	-0.0006282073	-0.00007052654	-0.001398623	-0.0004154727
CALCIUM	373.690	Radial	49848.55	512.4861	510.9017	512.2281	514.3284
CERIUM	535.353	Radial	24.70549	0.1263420	0.04712750	0.1390245	0.1928739
CHROMIUM	267.716	Axial	-15.4988	-0.003603240	-0.001769770	-0.004452694	-0.004587255
COBALT	228.616	Axial	-6.18243	-0.0006459675	-0.001402307	0.0001968776	-0.0007324732
COPPER	324.754	Axial	32.30927	0.008276393	0.006952103	0.006463247	0.01141383
IRON	271.441	Radial	4121.778	206.5684	206.5515	205.2275	207.9261
LANTHANUM	333.749	Radial	-5.56410	-0.008444605	-0.002516787	-0.01392938	-0.008887649
LEAD	220.353	Axial	5.527713	0.01448863	0.02513999	0.009029269	0.009296631
LITHIUM	670.784	Radial	-5.73544	0.001856654	0.004613693	-0.0001185822	0.001074851
MAGNESIUM	279.079	Radial	43907.43	523.9780	523.1427	523.1532	525.6382
MANGANESE	257.610	Axial	-117.509	-0.004590071	-0.0009598300	-0.005225166	-0.007585217
MOLYBDENUM	202.030	Axial	-2.08319	-0.001221000	-0.0003540798	-0.001480412	-0.001828507
NICKEL	231.604	Axial	1.513562	0.001020725	0.0007141535	0.001877737	0.0004702833
PHOSPHORUS	177.495	Axial	1.612707	0.002178624	-0.0003592565	0.003785476	0.003109654
POTASSIUM	766.490	Radial	-14.9144	0.1631696	0.1703160	0.1656301	0.1535627
SELENIUM	196.090	Axial	-1.11639	-0.02893500	-0.03836227	-0.02970987	-0.01873286
SILICON	251.611	Axial	13.92889	0.003966642	0.01416082	0.0003043201	-0.002565212
SILVER	328.068	Axial	0.6744447	0.004109754	0.003602391	0.003729070	0.004997801
SODIUM	589.592	Radial	3.297407	0.05322147	0.04994743	0.06011738	0.04959959
STRONTIUM	421.552	Radial	71.23488	0.006467452	0.005937233	0.006955412	0.006509712
SULFUR	182.034	Axial	3.805732	0.0004483469	-0.002009925	0.01556724	-0.01221227
THALLIUM	190.856	Axial	-1.37462	-0.001367104	0.001381343	-0.001460073	-0.004022581
TIN	189.989	Axial	-0.2483941	0.001518092	0.001264632	0.001525842	0.001763801
TITANIUM	334.941	Radial	-9.71499	-0.004281870	-0.003570890	-0.005756594	-0.003518126
VANADIUM	292.402	Radial	1.603287	0.004189726	0.003643730	0.004224009	0.004701440
ZINC	206.200	Axial	24.57041	0.003410518	-0.004059349	0.004247521	0.01004338

Sample ID: ICSAB Units: mg/l
Analyzed: 03/20/25 15:27 Sequence: 238 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6176.927	6146.691	6208.285	6175.806
YTTRIUM	360.073	Axial	56905.32	56777.24	56831.36	57107.36
YTTRIUM	360.073	Radial	4597.437	4614.003	4633.430	4544.877
INDIUM	230.606	Axial	1127.715	1130.202	1123.569	1129.373

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28507.97	511.7667	513.0420	510.2677	511.9904
ANTIMONY	206.833	Axial	61.21566	0.4868906	0.4803101	0.4936946	0.4866672
ARSENIC	189.042	Axial	92.02741	0.4810244	0.4781044	0.4710249	0.4939440
BARIUM	233.527	Axial	2932.638	0.5091463	0.5050122	0.5079837	0.5144431
BERYLLIUM	313.042	Radial	7834.875	0.5015824	0.5034570	0.4997246	0.5015655
BORON	249.678	Radial	200.8928	0.9882293	0.9925197	0.9790889	0.9930792
CADMIUM	228.802	Axial	2015.784	1.004657	1.008980	0.9943598	1.010630
CALCIUM	373.690	Radial	49412.08	513.5816	515.7515	512.5976	512.3957
CERIUM	535.353	Radial	24.22321	0.1233524	0.07744701	0.1525039	0.1401062
CHROMIUM	267.716	Axial	1061.101	0.4847360	0.4800045	0.4847878	0.4894155
COBALT	228.616	Axial	460.7867	0.5126333	0.5036823	0.5177551	0.5164623
COPPER	324.754	Axial	2116.030	0.5190155	0.5142077	0.5203476	0.5224911
IRON	271.441	Radial	4090.847	207.2886	207.5525	204.7122	209.6011
LANTHANUM	333.749	Radial	-8.48336	-0.01422590	-0.01142811	-0.01347003	-0.01777955
LEAD	220.353	Axial	389.2537	1.019419	1.006213	1.024907	1.027137
LITHIUM	670.784	Radial	-8.00867	-0.0003976623	-0.002243090	-0.0005852177	0.001635321
MAGNESIUM	279.079	Radial	43595.64	526.0054	527.9174	520.9901	529.1087
MANGANESE	257.610	Axial	10585.76	0.5097265	0.5035628	0.5102889	0.5153279
MOLYBDENUM	202.030	Axial	298.4577	0.4688725	0.4755986	0.4595975	0.4714215
NICKEL	231.604	Axial	829.0205	1.021073	1.009935	1.027101	1.026184
PHOSPHORUS	177.495	Axial	1.659825	0.003221859	0.002518844	0.003273001	0.003873733
POTASSIUM	766.490	Radial	-20.1890	0.1039222	0.1286942	0.09417334	0.08889914
SELENIUM	196.090	Axial	71.79112	0.4694329	0.4828498	0.4689711	0.4564777
SILICON	251.611	Axial	1021.172	1.083961	1.070673	1.097285	1.083925
SILVER	328.068	Axial	4201.064	1.169062	1.011889	1.442375	1.052921
SODIUM	589.592	Radial	18.40638	0.09518622	0.1026386	0.08483480	0.09808531
STRONTIUM	421.552	Radial	71.55152	0.006572652	0.006732370	0.006527800	0.006457786
SULFUR	182.034	Axial	3.360985	-0.002262754	0.004387730	-0.005207085	-0.005968907
THALLIUM	190.856	Axial	80.08602	0.4740985	0.4648112	0.4838776	0.4736067
TIN	189.989	Axial	176.5151	0.4963530	0.4928486	0.4967190	0.4994913
TITANIUM	334.941	Radial	801.9982	0.4935524	0.4962260	0.4887677	0.4956635
VANADIUM	292.402	Radial	290.8437	0.4948215	0.4921971	0.4965768	0.4956907
ZINC	206.200	Axial	2325.813	1.021088	1.020128	1.016899	1.026236

Sample ID: CALBLK Units: mg/l
Analyzed: 03/21/25 08:26 Sequence: 2 Standard ID: 25C17417

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6424.829	6395.653	6431.202	6447.633
YTTRIUM	360.073	Axial	62336.09	61924.77	63044.70	62038.79
YTTRIUM	360.073	Radial	4757.437	4750.504	4755.871	4765.938
INDIUM	230.606	Axial	1369.724	1358.868	1382.836	1367.468

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	-4.44481	-3.934405	-4.048072	-5.351959
ANTIMONY	206.833	Axial	0.2867719	1.368819	-1.054423	0.5459194
ARSENIC	189.042	Axial	1.069036	0.2284526	1.694161	1.284494
BARIUM	233.527	Axial	-8.15661	-9.128738	-5.851080	-9.490024
BERYLLIUM	313.042	Radial	2.915721	1.665842	5.567904	1.513418
BORON	249.678	Radial	-0.1529957	-0.08204279	-0.2134186	-0.1635257
CADMIUM	228.802	Axial	8.821388	9.074593	9.302446	8.087124
CALCIUM	317.933	Radial	12.14960	11.91329	10.98988	13.54564
CALCIUM	373.690	Radial	-3.06539	-2.595305	-5.251197	-1.349677
CERIUM	535.353	Radial	18.80084	14.18930	23.17141	19.04181
CHROMIUM	267.716	Axial	-8.84858	-11.67283	-7.579920	-7.293017
COBALT	228.616	Axial	-6.51179	-6.777566	-5.964110	-6.793721
COPPER	324.754	Axial	-10.9182	-9.692843	-10.35849	-12.70334
IRON	259.940	Radial	1.323707	0.7016213	2.319642	0.9498581
IRON	271.441	Radial	0.08101619	-0.2449515	0.5050385	-0.01703843
LANTHANUM	333.749	Radial	-4.34129	-4.188351	-4.022967	-4.812578
LEAD	220.353	Axial	0.01339764	-1.085656	1.423403	-0.2975537
LITHIUM	670.784	Radial	-7.19855	-4.614650	-10.19626	-6.784755
MAGNESIUM	279.079	Radial	-2.79978	-2.726832	-3.629380	-2.043147
MANGANESE	257.610	Axial	-13.5179	-16.00128	-11.40448	-13.14815
MOLYBDENUM	202.030	Axial	0.5363174	0.7372886	-0.4088458	1.280509
NICKEL	231.604	Axial	1.293252	0.6429618	1.972217	1.264577
PHOSPHORUS	177.495	Axial	1.142060	1.727614	0.7998718	0.8986945
POTASSIUM	766.490	Radial	-20.8813	-26.47564	-18.73758	-17.43089
SELENIUM	196.090	Axial	0.05815937	-0.2291777	0.2724611	0.1311947
SILICON	251.611	Axial	10.39873	10.46849	9.168411	11.55928
SILVER	328.068	Axial	-17.7746	-21.19286	-15.37203	-16.75919
SODIUM	589.592	Radial	-5.87708	-3.181940	-8.418125	-6.031183
SODIUM	818.326	Radial	6.167551	4.252190	8.466132	5.784332
STRONTIUM	421.552	Radial	6.974523	4.621881	10.41294	5.888747
SULFUR	182.034	Axial	4.026892	4.231021	3.869388	3.980266
THALLIUM	190.856	Axial	-0.8048032	-0.5227779	-0.5342913	-1.357340
TIN	189.989	Axial	-0.6106080	-0.4356626	-0.7221811	-0.6739803
TITANIUM	334.941	Radial	-2.88401	-3.596819	-1.864618	-3.190600
VANADIUM	292.402	Radial	-1.56583	1.834154	-3.935609	-2.596062
ZINC	206.200	Axial	3.589924	5.051490	1.883372	3.834910

Sample ID: STD1 Units: mg/l
Analyzed: 03/21/25 08:27 Sequence: 3 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6432.950	6524.908	6401.803	6372.140
YTTRIUM	360.073	Axial	62056.02	62513.13	62203.54	61451.38
YTTRIUM	360.073	Radial	4749.723	4769.699	4755.866	4723.605
INDIUM	230.606	Axial	1338.354	1349.427	1340.798	1324.836

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	6.200999	7.095221	6.775236	4.732540
ANTIMONY	206.833	Axial	1.569521	1.224318	1.167964	2.316280
ARSENIC	189.042	Axial	2.930386	2.382507	3.487799	2.920853
BARIUM	233.527	Axial	25.08455	22.72164	26.99567	25.53635
BERYLLIUM	313.042	Radial	36.12605	37.91883	34.58401	35.87531
BORON	249.678	Radial	41.64872	41.12787	43.24925	40.56904
CADMIUM	228.802	Axial	12.76019	12.56668	13.22672	12.48719
CALCIUM	317.933	Radial	214.0502	215.4938	219.6161	207.0408
CHROMIUM	267.716	Axial	12.68217	12.69904	11.41777	13.92969
COBALT	228.616	Axial	2.156904	1.301374	1.580731	3.588607
COPPER	324.754	Axial	39.17995	38.59421	37.02189	41.92375
IRON	259.940	Radial	27.64438	28.92819	27.23229	26.77265
LEAD	220.353	Axial	2.415023	2.231770	2.404710	2.608590
LITHIUM	670.784	Radial	11.02488	15.29539	9.293584	8.485669
MAGNESIUM	279.079	Radial	85.60847	86.10511	84.84821	85.87211
MANGANESE	257.610	Axial	194.5360	197.7654	192.8585	192.9842
MOLYBDENUM	202.030	Axial	4.057809	5.010582	2.948458	4.214389
NICKEL	231.604	Axial	9.610907	9.702970	9.525950	9.603803
PHOSPHORUS	177.495	Axial	19.99240	19.44649	20.38073	20.14999
POTASSIUM	766.490	Radial	81.32906	83.45583	77.42248	83.10888
SELENIUM	196.090	Axial	0.8066988	0.5186815	0.4628996	1.438515
SILICON	251.611	Axial	207.4242	206.1249	209.9785	206.1691
SILVER	328.068	Axial	3.393386	2.873434	-0.5732989	7.880023
SODIUM	589.592	Radial	375.8394	379.5470	375.3674	372.6039
STRONTIUM	421.552	Radial	112.3967	113.8570	114.5555	108.7776
SULFUR	182.034	Axial	52.59487	53.20108	51.96951	52.61400
THALLIUM	190.856	Axial	0.8393323	0.4092386	1.867231	0.2415271
TIN	189.989	Axial	19.24580	19.33619	18.43702	19.96421
TITANIUM	334.941	Radial	80.09392	79.93718	79.66636	80.67823
VANADIUM	292.402	Radial	10.53250	10.81689	9.608843	11.17178
ZINC	206.200	Axial	128.7704	128.5442	128.2273	129.5399

Sample ID: STD2 Units: mg/l
Analyzed: 03/21/25 08:29 Sequence: 4 Standard ID: 25C19782

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6119.234	6056.828	6067.668	6233.206
YTTRIUM	360.073	Axial	58820.80	58121.73	58705.16	59635.50
YTTRIUM	360.073	Radial	4632.701	4681.332	4659.904	4556.868
INDIUM	230.606	Axial	1248.749	1238.880	1246.142	1261.227

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	108.0358	109.7872	108.1365	106.1836
ANTIMONY	206.833	Axial	14.90608	13.35202	15.42859	15.93763
ARSENIC	189.042	Axial	39.02740	39.95280	37.78685	39.34256
BARIUM	233.527	Axial	570.5423	563.6534	568.4521	579.5214
BERYLLIUM	313.042	Radial	613.2055	614.4797	619.6223	605.5145
CADMIUM	228.802	Axial	211.6046	211.1655	210.3418	213.3066
CALCIUM	317.933	Radial	1998.512	1978.236	2045.884	1971.417
CHROMIUM	267.716	Axial	420.2105	410.1849	418.1272	432.3193
COBALT	228.616	Axial	176.6040	175.5502	174.5154	179.7462
COPPER	324.754	Axial	864.4999	850.3099	865.7962	877.3935
IRON	259.940	Radial	516.3473	508.4194	526.1949	514.4276
LEAD	220.353	Axial	41.73446	41.00071	41.49130	42.71136
LITHIUM	670.784	Radial	182.4531	180.8697	186.8341	179.6555
MAGNESIUM	279.079	Radial	166.7076	168.5867	167.7202	163.8158
MANGANESE	257.610	Axial	4025.951	3984.141	4004.693	4089.019
MOLYBDENUM	202.030	Axial	32.81555	33.29871	31.78748	33.36046
NICKEL	231.604	Axial	168.8406	168.6101	165.5971	172.3146
PHOSPHORUS	177.495	Axial	37.33936	37.31106	37.10965	37.59736
POTASSIUM	766.490	Radial	903.9409	908.6905	914.5281	888.6040
SELENIUM	196.090	Axial	17.51971	17.19941	16.63503	18.72470
SILICON	251.611	Axial	410.5769	382.1591	386.3964	463.1751
SILVER	328.068	Axial	348.1531	345.0098	349.7181	349.7313
SODIUM	589.592	Radial	3558.911	3583.898	3582.809	3510.028
STRONTIUM	421.552	Radial	2073.224	2052.249	2117.786	2049.638
THALLIUM	190.856	Axial	37.33314	36.78040	37.08609	38.13293
TIN	189.989	Axial	38.44694	38.64723	38.10303	38.59055
TITANIUM	334.941	Radial	315.2870	316.5396	317.2146	312.1068
VANADIUM	292.402	Radial	115.0034	115.1651	117.6520	112.1932
ZINC	206.200	Axial	466.0173	470.4622	462.3165	465.2731

Sample ID: STD3 Units: mg/l
Analyzed: 03/21/25 08:31 Sequence: 5 Standard ID: 25C19783

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6168.644	6138.412	6193.755	6173.766
YTTRIUM	360.073	Axial	59269.58	58778.03	59627.36	59403.36
YTTRIUM	360.073	Radial	4628.392	4618.269	4638.311	4628.597
INDIUM	230.606	Axial	1247.037	1232.356	1262.706	1246.048

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	216.3137	219.0183	216.2993	213.6234
ANTIMONY	206.833	Axial	28.52086	28.40791	27.94056	29.21411
ARSENIC	189.042	Axial	78.96785	79.57690	78.31465	79.01201
BARIUM	233.527	Axial	1182.475	1172.664	1195.633	1179.129
BERYLLIUM	313.042	Radial	1251.905	1253.670	1253.217	1248.828
BORON	249.678	Radial	81.79547	80.38306	81.92845	83.07489
CADMIUM	228.802	Axial	429.6442	426.8491	434.0636	428.0198
CALCIUM	317.933	Radial	4109.034	4097.387	4123.312	4106.403
CHROMIUM	267.716	Axial	884.5409	867.3674	901.4331	884.8221
COBALT	228.616	Axial	375.5424	373.8283	379.0577	373.7412
COPPER	324.754	Axial	1778.072	1768.432	1771.924	1793.859
IRON	259.940	Radial	1031.815	1030.207	1033.638	1031.600
LEAD	220.353	Axial	85.16221	83.20215	85.60276	86.68173
LITHIUM	670.784	Radial	384.2051	391.3027	383.5577	377.7547
MAGNESIUM	279.079	Radial	341.8890	338.1657	344.5703	342.9308
MANGANESE	257.610	Axial	8345.732	8267.636	8439.069	8330.491
MOLYBDENUM	202.030	Axial	67.82155	66.47021	68.33306	68.66137
NICKEL	231.604	Axial	347.4458	344.1056	350.2163	348.0155
PHOSPHORUS	177.495	Axial	75.82862	75.43173	76.19015	75.86398
POTASSIUM	766.490	Radial	1859.633	1867.628	1857.720	1853.551
SELENIUM	196.090	Axial	35.30045	35.68179	34.88573	35.33383
SILICON	251.611	Axial	790.0977	779.1231	802.2604	788.9095
SILVER	328.068	Axial	746.2609	747.0345	747.1867	744.5615
SODIUM	589.592	Radial	7205.509	7198.348	7243.942	7174.237
SODIUM	818.326	Radial	172.0863	172.1362	173.2854	170.8373
STRONTIUM	421.552	Radial	4209.012	4205.603	4221.193	4200.239
SULFUR	182.034	Axial	99.80072	98.31494	101.3623	99.72488
THALLIUM	190.856	Axial	76.67018	76.35693	77.62676	76.02684
TIN	189.989	Axial	78.25233	77.44585	78.98419	78.32696
TITANIUM	334.941	Radial	648.5563	648.1148	651.6702	645.8839
VANADIUM	292.402	Radial	236.8021	238.3542	236.3111	235.7409
ZINC	206.200	Axial	958.8196	967.7844	945.5927	963.0818

Sample ID: STD4 Units: mg/l
Analyzed: 03/21/25 08:32 Sequence: 6 Standard ID: 25C19784

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6188.285	6111.350	6248.277	6205.228
YTTRIUM	360.073	Axial	59023.01	58284.25	59360.38	59424.39
YTTRIUM	360.073	Radial	4588.678	4613.668	4575.162	4577.203
INDIUM	230.606	Axial	1229.176	1210.219	1243.452	1233.857

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	506.6607	504.0082	509.3404	506.6335
ANTIMONY	206.833	Axial	65.29279	63.41165	65.95841	66.50830
ARSENIC	189.042	Axial	184.6343	183.7332	184.7172	185.4525
BARIUM	233.527	Axial	2794.378	2763.415	2800.681	2819.039
BERYLLIUM	313.042	Radial	2944.900	2949.298	2946.615	2938.789
BORON	249.678	Radial	190.2413	190.8279	189.8520	190.0441
CADMIUM	228.802	Axial	990.5863	981.6521	996.3187	993.7880
CALCIUM	317.933	Radial	9417.415	9385.579	9427.603	9439.063
CALCIUM	373.690	Radial	4665.341	4675.794	4661.023	4659.204
CHROMIUM	267.716	Axial	2091.840	2040.948	2106.322	2128.249
COBALT	228.616	Axial	894.4448	890.1909	891.6338	901.5098
COPPER	324.754	Axial	4103.615	4079.659	4100.532	4130.654
IRON	259.940	Radial	2393.784	2382.467	2399.523	2399.364
IRON	271.441	Radial	194.1976	195.5570	195.3293	191.7066
LEAD	220.353	Axial	198.1188	198.7309	197.1231	198.5025
LITHIUM	670.784	Radial	929.2009	933.6557	926.1194	927.8274
MAGNESIUM	279.079	Radial	799.8132	800.1810	799.6722	799.5866
MANGANESE	257.610	Axial	19797.82	19624.63	19836.81	19932.01
MOLYBDENUM	202.030	Axial	158.0396	158.2860	157.8126	158.0203
NICKEL	231.604	Axial	813.2088	801.8432	817.2447	820.5386
PHOSPHORUS	177.495	Axial	173.1512	171.2925	175.8136	172.3475
POTASSIUM	766.490	Radial	4356.359	4345.519	4374.164	4349.394
SELENIUM	196.090	Axial	85.34305	85.71392	85.52996	84.78528
SILICON	251.611	Axial	1825.945	1777.421	1849.399	1851.017
SILVER	328.068	Axial	1781.884	1781.356	1774.590	1789.706
SODIUM	818.326	Radial	390.3241	395.1302	387.7781	388.0639
STRONTIUM	421.552	Radial	9659.969	9638.767	9675.457	9665.684
SULFUR	182.034	Axial	225.7269	224.4821	226.9765	225.7219
THALLIUM	190.856	Axial	177.7247	179.2735	177.6810	176.2196
TIN	189.989	Axial	182.7743	179.9440	184.1076	184.2714
TITANIUM	334.941	Radial	1521.048	1523.645	1522.143	1517.357
VANADIUM	292.402	Radial	554.8730	555.3236	556.0707	553.2247
ZINC	206.200	Axial	2273.674	2273.435	2275.569	2272.019

Sample ID: STD5 Units: mg/l
Analyzed: 03/21/25 08:34 Sequence: 7 Standard ID: 25C19785

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6218.137	6212.293	6219.806	6222.313
YTTRIUM	360.073	Axial	58442.70	58591.26	58239.47	58497.38
YTTRIUM	360.073	Radial	4609.502	4559.346	4611.117	4658.043
INDIUM	230.606	Axial	1204.100	1204.522	1204.543	1203.236

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1081.428	1073.442	1083.411	1087.431
ANTIMONY	206.833	Axial	134.7171	134.2305	134.2931	135.6278
ARSENIC	189.042	Axial	388.1638	389.1652	389.2380	386.0883
BARIUM	233.527	Axial	5875.990	5886.596	5836.873	5904.501
BERYLLIUM	313.042	Radial	6230.549	6181.189	6230.143	6280.314
BORON	249.678	Radial	405.8000	402.0981	407.1285	408.1736
CADMIUM	228.802	Axial	2070.053	2065.934	2065.954	2078.271
CALCIUM	373.690	Radial	9789.139	9699.756	9830.645	9837.016
CHROMIUM	267.716	Axial	4481.100	4461.109	4497.745	4484.445
COBALT	228.616	Axial	1891.389	1896.583	1871.213	1906.370
COPPER	324.754	Axial	8427.715	8468.659	8344.357	8470.128
IRON	271.441	Radial	406.8121	403.9790	409.6265	406.8306
LEAD	220.353	Axial	409.9491	411.8085	406.6068	411.4319
LITHIUM	670.784	Radial	2059.533	2042.247	2060.646	2075.706
MAGNESIUM	279.079	Radial	1691.630	1671.449	1702.382	1701.060
MANGANESE	257.610	Axial	41876.25	42055.39	41551.23	42022.14
MOLYBDENUM	202.030	Axial	326.6030	326.6677	326.7000	326.4412
NICKEL	231.604	Axial	1713.439	1712.680	1714.307	1713.330
PHOSPHORUS	177.495	Axial	362.3992	365.0707	361.8440	360.2829
POTASSIUM	766.490	Radial	9268.618	9184.534	9312.601	9308.720
SELENIUM	196.090	Axial	177.6668	179.3592	176.3553	177.2859
SILICON	251.611	Axial	3855.183	3824.475	3877.346	3863.726
SILVER	328.068	Axial	3681.687	3718.103	3603.542	3723.417
SODIUM	818.326	Radial	822.9737	820.2577	825.6231	823.0403
STRONTIUM	421.552	Radial	20347.17	20037.04	20449.01	20555.45
SULFUR	182.034	Axial	474.5588	472.0459	473.6243	478.0063
THALLIUM	190.856	Axial	360.6455	360.7289	360.9880	360.2196
TIN	189.989	Axial	380.5627	379.7447	381.6326	380.3108
TITANIUM	334.941	Radial	3248.110	3191.935	3276.187	3276.208
VANADIUM	292.402	Radial	1177.157	1167.038	1183.152	1181.281
ZINC	206.200	Axial	4727.042	4747.608	4714.567	4718.951

Sample ID: STD6 Units: mg/l
Analyzed: 03/21/25 08:36 Sequence: 8 Standard ID: 25C19786

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6332.561	6255.504	6421.255	6320.923
YTTRIUM	360.073	Axial	58329.97	57570.82	59095.36	58323.75
YTTRIUM	360.073	Radial	4646.197	4622.514	4648.845	4667.231
INDIUM	230.606	Axial	1200.889	1191.877	1209.613	1201.177

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	2202.566	2200.797	2203.632	2203.268
ANTIMONY	206.833	Axial	272.1291	266.6745	278.7632	270.9496
ARSENIC	189.042	Axial	776.8090	764.0484	787.1772	779.2013
BARIUM	233.527	Axial	11835.10	11738.92	11947.76	11818.64
BERYLLIUM	313.042	Radial	12502.16	12491.53	12498.55	12516.38
BORON	249.678	Radial	816.6360	816.7785	816.7653	816.3642
CADMIUM	228.802	Axial	4205.485	4152.298	4265.338	4198.818
CALCIUM	373.690	Radial	19634.31	19555.73	19673.22	19673.99
CERIUM	535.353	Radial	875.0170	874.7027	876.2251	874.1231
CHROMIUM	267.716	Axial	9224.593	9193.558	9295.538	9184.684
COBALT	228.616	Axial	3835.861	3750.419	3917.513	3839.650
COPPER	324.754	Axial	16429.58	16127.63	16739.87	16421.24
IRON	271.441	Radial	810.6643	810.7487	810.2749	810.9693
LANTHANUM	333.749	Radial	5182.093	5211.524	5170.121	5164.634
LEAD	220.353	Axial	817.1380	799.6524	833.0827	818.6788
LITHIUM	670.784	Radial	4374.525	4350.417	4388.952	4384.206
MAGNESIUM	279.079	Radial	3390.711	3395.801	3387.181	3389.151
MANGANESE	257.610	Axial	84714.62	83399.62	85886.23	84858.01
MOLYBDENUM	202.030	Axial	656.7088	648.4998	666.8379	654.7888
NICKEL	231.604	Axial	3483.824	3459.231	3512.509	3479.733
PHOSPHORUS	177.495	Axial	735.0094	720.4752	749.5932	734.9599
POTASSIUM	766.490	Radial	18666.91	18621.09	18651.18	18728.46
SELENIUM	196.090	Axial	351.3911	351.4903	352.0262	350.6569
SILICON	251.611	Axial	7950.968	7834.548	8090.727	7927.627
SILVER	328.068	Axial	7322.069	7130.342	7522.761	7313.105
SODIUM	818.326	Radial	1677.241	1681.211	1673.404	1677.108
STRONTIUM	421.552	Radial	40928.02	40662.11	40883.23	41238.72
SULFUR	182.034	Axial	983.4750	961.4315	1000.259	988.7341
THALLIUM	190.856	Axial	718.3110	702.4248	728.2760	724.2323
TIN	189.989	Axial	758.6474	748.2859	767.5596	760.0968
TITANIUM	334.941	Radial	6521.086	6475.206	6562.965	6525.087
VANADIUM	292.402	Radial	2373.053	2377.114	2368.577	2373.469
ZINC	206.200	Axial	9109.331	9106.111	9139.658	9082.225

Sample ID: ICV Units: mg/l
Analyzed: 03/21/25 08:55 Sequence: 11 Standard ID: 25C19787

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	6478.633	6451.892	6568.872	6431.969	6461.799
YTTRIUM	360.073	Axial	61757.30	61695.68	62664.43	61284.92	61384.17
YTTRIUM	360.073	Radial	4713.444	4751.541	4738.608	4677.297	4686.328
INDIUM	230.606	Axial	1307.971	1297.389	1326.632	1304.919	1302.945

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	565.0048	10.02804	9.955157	10.08336	10.10056	9.973076
ANTIMONY	206.833	Axial	141.6844	1.015808	1.023130	1.004810	1.022603	1.012686
ARSENIC	189.042	Axial	204.8072	1.024980	1.040016	0.9994957	1.026118	1.034291
BARIUM	233.527	Axial	6237.846	1.029953	1.042628	1.025010	1.026514	1.025661
BERYLLIUM	313.042	Radial	15903.83	1.004575	1.001353	1.007203	1.003601	1.006142
BORON	249.678	Radial	206.3978	0.9993199	0.9893081	1.001795	0.9991111	1.007066
CADMIUM	228.802	Axial	2214.477	1.029156	1.043408	1.016196	1.033606	1.023412
CALCIUM	317.933	Radial	2052.891	10.43464	10.27229	10.65200	10.47402	10.34026
CHROMIUM	267.716	Axial	2337.517	0.9987973	1.010495	0.9860235	1.005626	0.9930454
COBALT	228.616	Axial	984.0146	0.9537096	0.9664578	0.9441704	0.9551736	0.9490366
COPPER	324.754	Axial	4571.297	1.048114	1.054444	1.036559	1.055376	1.046079
IRON	259.940	Radial	2610.492	10.49890	10.34514	10.66339	10.45468	10.53239
LEAD	220.353	Axial	443.8305	0.9998232	1.011553	0.9875776	1.004373	0.9957888
LITHIUM	670.784	Radial	1029.853	1.001239	0.9840920	1.011058	1.010134	0.9996726
MAGNESIUM	279.079	Radial	875.4017	10.42528	10.32981	10.45397	10.48752	10.42981
MANGANESE	257.610	Axial	21735.29	1.004296	1.014993	0.9968802	1.006778	0.9985353
MOLYBDENUM	202.030	Axial	712.8917	1.052945	1.061728	1.042353	1.060695	1.047003
NICKEL	231.604	Axial	906.3199	0.9624547	0.9740930	0.9533346	0.9620876	0.9603035
PHOSPHORUS	177.495	Axial	192.2036	1.018936	1.021827	1.015791	1.038776	0.9993506
POTASSIUM	766.490	Radial	954.0473	10.30384	10.23084	10.28883	10.27896	10.41674
SELENIUM	196.090	Axial	90.33451	0.9989623	0.9941009	1.003141	0.9997436	0.9988638
SILICON	251.611	Axial	1024.913	0.9763080	0.9791340	0.9651723	0.9870436	0.9738823
SILVER	328.068	Axial	3794.324	0.9815322	0.9894721	0.9703889	0.9815910	0.9846766
SODIUM	589.592	Radial	3775.417	10.32264	10.32752	10.26446	10.36710	10.33150
STRONTIUM	421.552	Radial	4254.944	0.4099197	0.4033015	0.4177507	0.4115087	0.4071177
SULFUR	182.034	Axial	501.7249	9.949151	10.00614	9.904340	10.07677	9.809354
THALLIUM	190.856	Axial	204.3513	1.048436	1.051263	1.041065	1.061942	1.039475
TIN	189.989	Axial	411.0331	0.9981337	1.013724	0.9877436	0.9988937	0.9921738
TITANIUM	334.941	Radial	1675.940	1.016422	1.006086	1.015072	1.024613	1.019916
VANADIUM	292.402	Radial	602.6563	1.005533	1.001630	1.005426	1.006661	1.008413
ZINC	206.200	Axial	2456.024	1.040149	1.053357	1.028118	1.036504	1.042616
CERIUM	535.353	Radial	28.83321	0.1174955	0.1127160	0.1123947	0.1281549	0.1167165
LANTHANUM	333.749	Radial	-7.58676	-0.006238472	-0.007262587	-0.007210297	-0.005055460	-0.005425545

Sample ID: ICB Units: mg/l
Analyzed: 03/21/25 08:59 Sequence: 12

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6328.376	6365.961	6267.279	6351.887
YTTRIUM	360.073	Axial	60664.17	61074.89	60180.28	60737.35
YTTRIUM	360.073	Radial	4761.581	4805.071	4733.376	4746.296
INDIUM	230.606	Axial	1338.325	1342.761	1325.871	1346.342

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.07264	-0.01088985	-0.01172645	-0.01235241	-0.008590677
ANTIMONY	206.833	Axial	0.2251624	-0.0003987517	-0.01018647	0.005967538	0.003022678
ARSENIC	189.042	Axial	0.9237901	-0.0006736891	0.005036661	-0.003558999	-0.003498730
BARIUM	233.527	Axial	-8.37943	-0.00005799971	-0.0003055036	-0.00006352405	0.0001950285
BERYLLIUM	313.042	Radial	4.589206	0.0001049571	-0.00001101949	0.0001212455	0.0002046452
BORON	249.678	Radial	-0.8663181	-0.003424130	-0.001999810	-0.006253464	-0.002019117
CADMIUM	228.802	Axial	8.961760	0.0001307474	-0.0002522605	0.0002913574	0.0003531454
CALCIUM	317.933	Radial	11.56242	-0.003013699	-0.005039895	-0.005197259	0.001196058
CERIUM	535.353	Radial	21.89100	0.03510836	0.02125335	0.05599806	0.02807366
CHROMIUM	267.716	Axial	-7.71367	0.0004348755	0.002055977	-0.0003329870	-0.0004183632
COBALT	228.616	Axial	-5.80999	0.0005244144	0.0001703281	0.0009123194	0.0004905958
COPPER	324.754	Axial	-12.4630	-0.0004221168	-0.001958116	0.0003207861	0.0003709791
IRON	259.940	Radial	0.6405882	-0.002713333	-0.005784321	-0.003044451	0.0006887723
LANTHANUM	333.749	Radial	-3.34023	0.001908260	-0.001700334	0.005946911	0.001478202
LEAD	220.353	Axial	0.5580686	0.001209050	0.001968905	-0.0002907159	0.001948959
LITHIUM	670.784	Radial	-6.84155	0.0003221891	0.005025227	-0.005212358	0.001153697
MAGNESIUM	279.079	Radial	-4.14421	-0.01570270	-0.02901495	-0.008565109	-0.009528054
MANGANESE	257.610	Axial	-11.8428	0.00006893814	0.0002327018	-0.0001037511	0.00007786377
MOLYBDENUM	202.030	Axial	-0.1504245	-0.001025402	-0.001003485	-0.0007581833	-0.001314538
NICKEL	231.604	Axial	3.253927	0.002076970	0.003308107	0.002789813	0.0001329903
PHOSPHORUS	177.495	Axial	1.242344	0.0006382391	0.0002457912	0.001495469	0.0001734567
POTASSIUM	766.490	Radial	-24.8854	-0.04154546	-0.06271899	-0.01218211	-0.04973528
SELENIUM	196.090	Axial	-0.1325899	-0.002132518	-0.003922313	0.0002356263	-0.002710867
SILICON	251.611	Axial	10.53433	0.0004118090	-0.003290501	0.002329679	0.002196250
SILVER	328.068	Axial	-15.5798	0.0004579817	-0.0003616989	0.001111318	0.0006243262
SODIUM	589.592	Radial	-21.5454	-0.04234216	-0.03826068	-0.03721900	-0.05154681
STRONTIUM	421.552	Radial	3.441063	-0.0003381468	-0.0003194042	-0.0003188893	-0.0003761468
SULFUR	182.034	Axial	3.576602	-0.007963784	-0.004628892	-0.002069123	-0.01719334
THALLIUM	190.856	Axial	-2.06157	-0.006360708	-0.01029482	-0.004271471	-0.004515837
TIN	189.989	Axial	-1.10582	-0.001215507	-0.001393846	-0.002568297	0.0003156206
TITANIUM	334.941	Radial	-0.3843956	0.001496667	0.002184966	0.001428471	0.0008765638
VANADIUM	292.402	Radial	-2.16681	-0.0009996125	0.0003361932	-0.004340741	0.001005710
ZINC	206.200	Axial	3.585146	0.00001933368	0.0004216840	-0.0001170951	-0.0002465878

Sample ID: ICVLL Units: mg/l
Analyzed: 03/21/25 09:04 Sequence: 15 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6480.793	6527.034	6480.721	6434.626
YTTRIUM	360.073	Axial	62267.15	62596.46	61689.66	62515.34
YTTRIUM	360.073	Radial	4749.061	4794.751	4765.439	4686.992
INDIUM	230.606	Axial	1349.785	1354.700	1345.800	1348.854

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.495547	0.2259552	0.2557577	0.1992951	0.2228129
ANTIMONY	206.833	Axial	1.745421	0.01045031	0.01413932	0.0005448450	0.01666678
ARSENIC	189.042	Axial	3.221635	0.01079751	0.007677450	0.01260435	0.01211073
BARIUM	233.527	Axial	25.74451	0.005599951	0.005757293	0.005315020	0.005727540
BERYLLIUM	313.042	Radial	36.01974	0.002075885	0.002072849	0.002103038	0.002051768
BORON	249.678	Radial	42.15783	0.2031552	0.2015757	0.2070023	0.2008875
CADMIUM	228.802	Axial	12.64161	0.001744789	0.001905496	0.001708117	0.001620754
CALCIUM	317.933	Radial	218.9715	1.049687	1.028901	1.069850	1.050309
CHROMIUM	267.716	Axial	13.14511	0.009389710	0.01023869	0.009430530	0.008499915
COBALT	228.616	Axial	3.287825	0.009055380	0.01091578	0.007186234	0.009064130
COPPER	324.754	Axial	32.46132	0.009839784	0.01073764	0.01014800	0.008633713
IRON	259.940	Radial	27.98396	0.1064772	0.1069004	0.1064902	0.1060409
LEAD	220.353	Axial	2.650096	0.005773866	0.003049365	0.002911243	0.01136099
LITHIUM	670.784	Radial	7.900956	0.01442687	0.01926225	0.01314363	0.01087472
MAGNESIUM	279.079	Radial	86.92338	1.057202	1.052370	1.041839	1.077396
MANGANESE	257.610	Axial	203.2158	0.01001036	0.009952902	0.009990331	0.01008784
MOLYBDENUM	202.030	Axial	4.457721	0.005791056	0.004587294	0.006731143	0.006054731
NICKEL	231.604	Axial	9.975440	0.008969076	0.009276269	0.009312054	0.008318904
PHOSPHORUS	177.495	Axial	20.46628	0.1029653	0.1026799	0.1031104	0.1031055
POTASSIUM	766.490	Radial	85.65894	1.116806	1.204180	1.106092	1.040146
SELENIUM	196.090	Axial	1.027709	0.01071712	0.01254520	0.01091236	0.008693820
SILICON	251.611	Axial	213.1371	0.1934798	0.1951891	0.1933616	0.1918887
SILVER	328.068	Axial	5.494364	0.005941825	0.006453713	0.006122941	0.005248822
SODIUM	589.592	Radial	379.3766	1.043726	1.058685	1.035392	1.037100
STRONTIUM	421.552	Radial	112.2358	0.01008167	0.009681586	0.01074440	0.009819009
SULFUR	182.034	Axial	53.31446	0.9842541	0.9822616	0.9944971	0.9760037
THALLIUM	190.856	Axial	0.9725170	0.008755581	0.004738269	0.01250789	0.009020586
TIN	189.989	Axial	20.42254	0.04940107	0.04786890	0.05065842	0.04967589
TITANIUM	334.941	Radial	81.77775	0.05087343	0.05047450	0.05053453	0.05161127
VANADIUM	292.402	Radial	12.14881	0.02264985	0.02431204	0.01946304	0.02417447
ZINC	206.200	Axial	145.0937	0.05997992	0.05967486	0.06037144	0.05989345
CERIUM	535.353	Radial	26.75930	0.09154492	0.1093420	0.02026122	0.1450315
LANTHANUM	333.749	Radial	-3.88467	0.0008375643	-0.00003740051	0.003607554	-0.001057460

Sample ID: ICSA Units: mg/l
Analyzed: 03/21/25 09:06 Sequence: 16 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6209.122	6129.217	6252.402	6245.747
YTTRIUM	360.073	Axial	56943.11	56528.67	56709.27	57591.38
YTTRIUM	360.073	Radial	4630.323	4647.364	4606.448	4637.159
INDIUM	230.606	Axial	1145.967	1139.647	1149.860	1148.394

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28393.75	509.1013	510.4642	510.3168	506.5230
ANTIMONY	206.833	Axial	1.137327	0.006447154	0.008384572	0.005569339	0.005387550
ARSENIC	189.042	Axial	0.08403090	-0.004907903	0.005279156	-0.008723808	-0.01127906
BARIUM	233.527	Axial	2.746264	0.001830300	0.002042907	0.001498521	0.001949471
BERYLLIUM	313.042	Radial	13.74000	0.0007008089	0.0007711001	0.0005939620	0.0007373647
BORON	249.678	Radial	-7.32224	-0.03529493	-0.04377895	-0.02316558	-0.03894027
CADMIUM	228.802	Axial	6.907919	-0.0007914524	-0.001340076	-0.0005217004	-0.0005125805
CALCIUM	373.690	Radial	49040.54	511.6463	512.0951	511.1054	511.7383
CERIUM	535.353	Radial	25.71762	0.08687797	0.09210637	0.06860486	0.09992269
CHROMIUM	267.716	Axial	-21.6744	-0.005823406	-0.005588440	-0.006658098	-0.005223679
COBALT	228.616	Axial	-4.42097	0.001132004	0.001184600	0.0006186421	0.001592770
COPPER	324.754	Axial	35.92912	0.01139299	0.01080001	0.01315651	0.01022246
IRON	271.441	Radial	4088.898	204.2666	204.9753	204.6482	203.1764
LANTHANUM	333.749	Radial	-5.25093	-0.001980646	-0.003569896	-0.0005366074	-0.001835433
LEAD	220.353	Axial	0.001554096	-0.00001767799	-0.002953027	0.003814099	-0.0009141064
LITHIUM	670.784	Radial	3.388934	0.01022379	0.007499565	0.01284848	0.01032333
MAGNESIUM	279.079	Radial	43430.23	524.8626	525.0418	527.6116	521.9344
MANGANESE	257.610	Axial	-188.674	-0.008460159	-0.008421298	-0.008899565	-0.008059613
MOLYBDENUM	202.030	Axial	1.266022	0.001139825	-0.001049952	0.001070068	0.003399359
NICKEL	231.604	Axial	1.116552	0.00004664138	0.0007722369	0.002482782	-0.003115095
PHOSPHORUS	177.495	Axial	2.463552	0.007550403	0.005835356	0.004268200	0.01254765
POTASSIUM	766.490	Radial	-14.2678	0.06504105	0.1320180	0.01179776	0.05130743
SELENIUM	196.090	Axial	-0.0003776531	-0.0006311484	0.001338015	-0.009709878	0.006478418
SILICON	251.611	Axial	7.525050	-0.002068487	-0.001757369	-0.002741088	-0.001707004
SILVER	328.068	Axial	0.5499225	0.004693209	0.006395151	0.002929782	0.004754695
SODIUM	589.592	Radial	2.931504	0.02404681	0.01554474	0.02474811	0.03184759
STRONTIUM	421.552	Radial	65.13134	0.005731087	0.005599843	0.005750671	0.005842748
SULFUR	182.034	Axial	3.682188	-0.004359289	-0.001408341	-0.008835063	-0.002834462
THALLIUM	190.856	Axial	-2.06452	-0.008104253	-0.005270176	-0.01320551	-0.005837069
TIN	189.989	Axial	-0.8421534	-0.0009146921	0.0005205528	-0.001545970	-0.001718660
TITANIUM	334.941	Radial	-8.47898	-0.003497506	-0.003020103	-0.004212625	-0.003259789
VANADIUM	292.402	Radial	3.004316	0.007661386	0.009155934	0.005167527	0.008660698
ZINC	206.200	Axial	28.26566	0.01097610	0.01163468	0.01056749	0.01072613

Sample ID: ICSAB Units: mg/l
Analyzed: 03/21/25 09:07 Sequence: 17 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6123.093	6094.031	6165.989	6109.260
YTTRIUM	360.073	Axial	56214.01	56153.76	56384.67	56103.61
YTTRIUM	360.073	Radial	4592.023	4591.745	4646.096	4538.227
INDIUM	230.606	Axial	1130.727	1126.804	1135.706	1129.670

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28105.66	508.1369	507.9550	508.2932	508.1624
ANTIMONY	206.833	Axial	65.43232	0.4952210	0.4819709	0.5044874	0.4992048
ARSENIC	189.042	Axial	93.75137	0.4935868	0.4938625	0.4935950	0.4933030
BARIUM	233.527	Axial	2877.452	0.5033935	0.5031571	0.4981878	0.5088356
BERYLLIUM	313.042	Radial	7744.502	0.5020147	0.5031202	0.5031462	0.4997776
BORON	249.678	Radial	195.7988	0.9730376	0.9653942	0.9798966	0.9738219
CADMIUM	228.802	Axial	2037.292	1.001625	1.004228	0.9991370	1.001509
CALCIUM	373.690	Radial	48742.41	512.7760	514.8863	512.0973	511.3445
CERIUM	535.353	Radial	27.25138	0.1076273	0.1062523	0.09839761	0.1182319
CHROMIUM	267.716	Axial	1065.295	0.4835681	0.4831471	0.4798800	0.4876772
COBALT	228.616	Axial	450.8244	0.5082139	0.5073731	0.5101328	0.5071357
COPPER	324.754	Axial	2078.896	0.5248616	0.5251200	0.5277100	0.5217547
IRON	271.441	Radial	4046.362	203.8270	204.4594	203.5623	203.4593
LANTHANUM	333.749	Radial	-7.33061	-0.006128269	-0.003544000	-0.007227607	-0.007613200
LEAD	220.353	Axial	385.3015	1.003979	1.009871	0.9986403	1.003426
LITHIUM	670.784	Radial	-2.97633	0.003950866	0.005520351	0.001227394	0.005104854
MAGNESIUM	279.079	Radial	42883.12	522.5730	520.8078	522.7431	524.1680
MANGANESE	257.610	Axial	10221.65	0.5000247	0.4984861	0.4984700	0.5031180
MOLYBDENUM	202.030	Axial	314.2119	0.4905902	0.4916067	0.4900808	0.4900831
NICKEL	231.604	Axial	827.5371	1.016567	1.016074	1.013166	1.020463
PHOSPHORUS	177.495	Axial	1.500117	0.002309558	0.002380534	0.004444040	0.0001041018
POTASSIUM	766.490	Radial	-15.4229	0.05152367	0.07964908	0.02104890	0.05387303
SELENIUM	196.090	Axial	41.82964	0.4891785	0.4917050	0.4686218	0.5072086
SILICON	251.611	Axial	917.1093	0.9595425	0.9562053	0.9576636	0.9647586
SILVER	328.068	Axial	3524.290	1.001450	1.007375	0.9931481	1.003827
SODIUM	589.592	Radial	16.73123	0.06280299	0.07267136	0.05436185	0.06137575
STRONTIUM	421.552	Radial	67.58374	0.006023902	0.006171096	0.006373777	0.005526832
SULFUR	182.034	Axial	4.052287	0.004478473	-0.003920196	0.01826946	-0.0009138455
THALLIUM	190.856	Axial	81.31783	0.4847077	0.4831396	0.4856052	0.4853782
TIN	189.989	Axial	177.5471	0.4994098	0.4983027	0.4963370	0.5035896
TITANIUM	334.941	Radial	785.3272	0.4897595	0.4842294	0.4919246	0.4931245
VANADIUM	292.402	Radial	286.5951	0.4921151	0.4921531	0.4954032	0.4887889
ZINC	206.200	Axial	2274.601	1.019194	1.016948	1.010457	1.030178

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 12:21 Sequence: 116 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6788.930	6897.437	6682.663	6786.690
YTTRIUM	360.073	Axial	64192.63	64950.62	63384.45	64242.81
YTTRIUM	360.073	Radial	4735.165	4735.125	4734.296	4736.074
INDIUM	230.606	Axial	1335.931	1349.176	1323.030	1335.588

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	559.0111	9.877183	9.954629	9.806859	9.870062
ANTIMONY	206.833	Axial	72.81284	0.4972101	0.4803585	0.5048685	0.5064032
ARSENIC	189.042	Axial	205.3956	0.9807023	0.9729676	0.9919842	0.9771550
BARIUM	233.527	Axial	3219.210	0.5079506	0.5041804	0.5101812	0.5094901
BERYLLIUM	313.042	Radial	3195.794	0.2007916	0.2013822	0.2013494	0.1996431
BORON	249.678	Radial	209.3107	1.008740	1.011137	1.009205	1.005876
CADMIUM	228.802	Axial	1112.210	0.4911271	0.4847470	0.4952760	0.4933583
CALCIUM	373.690	Radial	5112.666	52.18820	52.35309	52.17580	52.03571
CHROMIUM	267.716	Axial	2429.115	0.9905465	0.9810132	0.9966950	0.9939312
COBALT	228.616	Axial	1024.596	0.9721074	0.9686952	0.9760528	0.9715743
COPPER	324.754	Axial	4575.006	1.009302	0.9962634	1.019565	1.012079
IRON	259.940	Radial	2648.573	10.60320	10.64532	10.63342	10.53086
LEAD	220.353	Axial	222.6937	0.4911481	0.4871720	0.4936910	0.4925814
LITHIUM	670.784	Radial	1066.001	1.031383	1.028008	1.038161	1.027980
MAGNESIUM	279.079	Radial	865.7737	10.26356	10.31215	10.27133	10.20719
MANGANESE	257.610	Axial	22906.56	1.010049	1.003716	1.013300	1.013131
MOLYBDENUM	202.030	Axial	179.0432	0.2517551	0.2497433	0.2525776	0.2529444
NICKEL	231.604	Axial	924.1242	0.9607885	0.9573551	0.9641398	0.9608707
PHOSPHORUS	177.495	Axial	194.2656	0.9827269	0.9750993	1.010794	0.9622874
POTASSIUM	766.490	Radial	4797.547	50.69891	50.50930	50.81429	50.77315
SELENIUM	196.090	Axial	93.11131	0.9827827	0.9725124	1.004790	0.9710456
SILICON	251.611	Axial	2132.570	1.964253	1.946774	1.964388	1.981595
SILVER	328.068	Axial	2042.293	0.5104481	0.5104243	0.5145067	0.5064131
SODIUM	818.326	Radial	430.5769	48.23803	48.48001	48.54732	47.68677
STRONTIUM	421.552	Radial	10643.51	1.021677	1.023693	1.022471	1.018867
SULFUR	182.034	Axial	249.7018	4.683873	4.553941	4.824516	4.673161
THALLIUM	190.856	Axial	202.1872	1.015774	1.009887	1.028081	1.009353
TIN	189.989	Axial	206.6829	0.4921028	0.4893035	0.4962029	0.4908020
TITANIUM	334.941	Radial	1671.734	1.009190	1.010634	1.014387	1.002548
VANADIUM	292.402	Radial	603.8351	1.002871	1.003642	1.007378	0.9975930
ZINC	206.200	Axial	2516.784	1.017166	1.016852	1.033562	1.001083
CERIUM	535.353	Radial	10.07653	-0.09889490	-0.1183839	-0.07495849	-0.1033423
LANTHANUM	333.749	Radial	-5.65846	-0.002531000	-0.002285792	-0.002178229	-0.003128977

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 12:23 Sequence: 117

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6442.024	6442.942	6425.417	6457.711
YTTRIUM	360.073	Axial	62568.55	62323.39	62104.13	63278.13
YTTRIUM	360.073	Radial	4642.131	4634.822	4663.533	4628.038
INDIUM	230.606	Axial	1367.576	1359.104	1365.536	1378.089

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-3.78800	0.009824325	0.02172068	-0.0004115332	0.008163830
ANTIMONY	206.833	Axial	0.5602341	0.001962597	0.008425584	0.002238953	-0.004776746
ARSENIC	189.042	Axial	0.9933688	-0.0003798348	0.001444218	0.003984839	-0.006568561
BARIUM	233.527	Axial	-6.27818	0.0003153733	0.0003208394	0.0003887928	0.0002364877
BERYLLIUM	313.042	Radial	2.546324	-0.00001880916	-0.00001245635	-0.0001715322	0.0001275611
BORON	249.678	Radial	-0.9284765	-0.003829557	-0.007693431	-0.002407066	-0.001388173
CADMIUM	228.802	Axial	8.607773	-0.0001116768	-0.0002610979	0.00007500978	-0.0001489424
CALCIUM	317.933	Radial	14.36357	0.01303602	0.02090670	0.008278528	0.009922818
CERIUM	535.353	Radial	8.327720	-0.1169630	-0.1243036	-0.1361540	-0.09043139
CHROMIUM	267.716	Axial	-7.46902	0.0006039382	-0.0003904197	0.001308736	0.0008934980
COBALT	228.616	Axial	-7.54623	-0.0009540096	0.0001822751	-0.0008772905	-0.002167013
COPPER	324.754	Axial	-1.51787	0.002123901	0.001556795	0.001272960	0.003541947
IRON	259.940	Radial	2.540491	0.005109259	0.008900148	0.001644047	0.004783583
LANTHANUM	333.749	Radial	-0.4774739	0.007257029	0.009684528	0.005031283	0.007055277
LEAD	220.353	Axial	0.3982558	0.0008405742	0.002233041	-0.002854559	0.003143241
LITHIUM	670.784	Radial	-2.10988	0.004829236	0.004703012	0.000005968674	0.009778728
MAGNESIUM	279.079	Radial	-2.93723	-0.002458069	0.0008675870	-0.007245351	-0.0009964421
MANGANESE	257.610	Axial	-9.57539	0.0001849731	0.0004650475	0.00004131604	0.00004855573
MOLYBDENUM	202.030	Axial	2.388173	0.002750066	0.004088278	0.001621131	0.002540790
NICKEL	231.604	Axial	1.298592	0.00001350449	0.0007884421	-0.0004633223	-0.0002846063
PHOSPHORUS	177.495	Axial	0.4510371	-0.003728536	-0.005595654	-0.002199225	-0.003390729
POTASSIUM	766.490	Radial	-19.9030	0.005174348	-0.03096784	-0.01058073	0.05707161
SELENIUM	196.090	Axial	0.1996147	0.001599884	0.009085628	0.01061623	-0.01490220
SILICON	251.611	Axial	12.96474	0.002390214	0.003191641	0.001258421	0.002720579
SILVER	328.068	Axial	-15.9456	0.0004908803	0.001806527	0.0002365654	-0.0005704515
SODIUM	589.592	Radial	-20.7977	-0.04174029	-0.04387720	-0.04741620	-0.03392746
STRONTIUM	421.552	Radial	1.158357	-0.0005524969	-0.0001765453	-0.0009334364	-0.0005475091
SULFUR	182.034	Axial	3.681873	-0.007163134	-0.007092917	-0.007599210	-0.006797275
THALLIUM	190.856	Axial	-0.6352100	0.0008247972	-0.004982681	0.009519507	-0.002062434
TIN	189.989	Axial	-0.6941082	-0.0002030903	-0.001703411	0.0002730974	0.0008210431
TITANIUM	334.941	Radial	-3.63320	-0.0005026138	-0.0005559105	-0.0008315088	-0.0001204220
VANADIUM	292.402	Radial	-1.54970	-0.00003534913	-0.001996785	-0.001551499	0.003442237
ZINC	206.200	Axial	9.848122	0.002663536	0.002825614	0.002257501	0.002907492

Sample ID: BLANK DF: 1x Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:24 Sequence: 118

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6539.519	6473.974	6523.111	6621.471
YTTRIUM	360.073	Axial	63412.86	63420.32	62799.05	64019.21
YTTRIUM	360.073	Radial	4681.600	4671.453	4710.184	4663.162
INDIUM	230.606	Axial	1403.024	1398.524	1394.908	1415.638

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.538673	0.002228835	0.002283782	-0.002906131	0.007308853
BARIUM	233.527	Axial	-5.55556	0.0004453168	0.0001593906	0.0001768679	0.0009996921
BORON	249.678	Radial	0.9720959	0.005477400	0.01126639	0.001711731	0.003454081
CADMIUM	228.802	Axial	8.817649	-0.00007391698	-0.0002807977	0.0004679539	-0.0004089071
CHROMIUM	267.716	Axial	-6.93116	0.0008758948	0.001399932	-0.0003270856	0.001554837
COBALT	228.616	Axial	-7.25538	-0.0005212224	0.0001905936	-0.0007950827	-0.0009591781
LEAD	220.353	Axial	0.8435670	0.001751373	0.0001896217	0.001511229	0.003553268
LITHIUM	670.784	Radial	-5.07894	0.001959266	0.003357032	-0.001589718	0.004110484
SELENIUM	196.090	Axial	-0.06477041	-0.001396426	-0.007614156	-0.0008511772	0.004276056
SILVER	328.068	Axial	-9.81675	0.002079121	0.001278902	0.002868290	0.002090170
ALUMINUM	308.215	Radial	-3.92699	0.007981702	0.01259474	-0.01402210	0.02537246
ANTIMONY	206.833	Axial	1.264140	0.006923088	0.01139501	0.003518785	0.005855469
BERYLLIUM	313.042	Radial	1.343348	-0.00009746190	-0.0002483586	0.00004036706	-0.00008439416
CALCIUM	317.933	Radial	14.70230	0.01414675	0.01293000	0.01315796	0.01635228
CERIUM	535.353	Radial	9.283311	-0.1068967	-0.09873710	-0.06911197	-0.1528411
COPPER	324.754	Axial	-2.35538	0.001952378	0.002547490	0.002013964	0.001295679
IRON	259.940	Radial	2.256845	0.003864462	0.004356154	0.004139018	0.003098213
LANTHANUM	333.749	Radial	-1.43983	0.005427453	0.006367898	0.002683709	0.007230752
MAGNESIUM	279.079	Radial	-2.04605	0.008502320	0.01817259	0.0004707762	0.006863598
MANGANESE	257.610	Axial	-11.9896	0.00008042473	-0.00002013127	0.00007880136	0.0001826041
MOLYBDENUM	202.030	Axial	2.263689	0.002503006	0.002313361	0.0002503086	0.004945348
NICKEL	231.604	Axial	1.367528	0.00004587600	0.0002283514	-0.0002005128	0.0001097895
PHOSPHORUS	177.495	Axial	1.437582	0.001483728	0.005636042	0.002650013	-0.003834870
POTASSIUM	766.490	Radial	-21.4489	-0.009478996	0.03847606	-0.03457209	-0.03234096
SILICON	251.611	Axial	14.99638	0.004137682	0.004025811	0.004909682	0.003477554
SODIUM	589.592	Radial	-12.6519	-0.01882404	-0.01436556	-0.03668702	-0.005419535
STRONTIUM	421.552	Radial	3.007274	-0.0003746961	-0.0006611061	-0.0003000230	-0.0001629592
SULFUR	182.034	Axial	4.173497	0.001506686	0.008300543	-0.001465242	-0.002315241
THALLIUM	190.856	Axial	-0.7628173	0.0003266700	0.003157186	0.004322293	-0.006499469
TIN	189.989	Axial	-1.61842	-0.002244849	-0.003218813	-0.001136609	-0.002379125
TITANIUM	334.941	Radial	-2.91228	-0.00004499088	-0.001206933	0.00009164267	0.0009803179
VANADIUM	292.402	Radial	0.5124208	0.003435501	0.004021708	0.003790979	0.002493815
ZINC	206.200	Axial	8.045970	0.001845306	0.001935612	0.001917373	0.001682932

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:26 Sequence: 119

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6610.572	6599.514	6587.155	6645.048
YTTRIUM	360.073	Axial	62240.38	62204.78	61876.35	62640.02
YTTRIUM	360.073	Radial	4688.498	4727.720	4665.163	4672.610
INDIUM	230.606	Axial	1339.522	1335.442	1330.395	1352.729

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	208.7552	1.023768	1.027174	1.020967	1.023164
BARIUM	233.527	Axial	6392.437	1.034374	1.033065	1.031713	1.038344
BORON	249.678	Radial	203.2289	0.9891982	0.9879000	0.9906605	0.9890340
CADMIUM	228.802	Axial	2203.106	1.003271	1.005829	1.001555	1.002428
CHROMIUM	267.716	Axial	2378.354	0.9958879	0.9923185	0.9912852	1.004060
COBALT	228.616	Axial	1000.339	0.9466897	0.9465371	0.9480081	0.9455239
LEAD	220.353	Axial	444.1661	0.9769630	0.9800430	0.9774746	0.9733713
LITHIUM	670.784	Radial	1053.656	1.029619	1.024030	1.029579	1.035247
SELENIUM	196.090	Axial	90.57727	0.9816909	0.9934356	0.9823976	0.9692395
SILVER	328.068	Axial	760.8279	0.1989189	0.1994257	0.2002203	0.1971108
ALUMINUM	308.215	Radial	569.2905	10.15653	10.20490	10.15486	10.10985
ANTIMONY	206.833	Axial	142.3202	0.9999186	0.9990137	1.002768	0.9979742
BERYLLIUM	313.042	Radial	15837.64	1.005712	1.005833	1.004829	1.006474
CALCIUM	317.933	Radial	2072.416	10.59075	10.61741	10.55918	10.59566
CERIUM	535.353	Radial	9.860663	-0.1002778	-0.09393606	-0.1154440	-0.09145343
COPPER	324.754	Axial	4660.506	1.060186	1.064076	1.057002	1.059482
IRON	259.940	Radial	2659.847	10.75403	10.83411	10.67623	10.75176
LANTHANUM	333.749	Radial	-10.7746	-0.01240526	-0.01401918	-0.009592753	-0.01360383
MAGNESIUM	279.079	Radial	859.2122	10.28705	10.29012	10.26412	10.30692
MANGANESE	257.610	Axial	22336.81	1.011442	1.014632	1.006914	1.012781
MOLYBDENUM	202.030	Axial	724.5363	1.048722	1.054323	1.043032	1.048812
NICKEL	231.604	Axial	920.9870	0.9549119	0.9564181	0.9504275	0.9578900
PHOSPHORUS	177.495	Axial	189.4087	0.9837922	0.9940849	0.9619960	0.9952955
POTASSIUM	766.490	Radial	947.0905	10.28323	10.29174	10.22518	10.33276
SILICON	251.611	Axial	998.9771	0.9438070	0.9381063	0.9406681	0.9526465
SODIUM	589.592	Radial	3761.540	10.33926	10.33561	10.36840	10.31377
STRONTIUM	421.552	Radial	10658.95	1.033334	1.037108	1.029057	1.033835
SULFUR	182.034	Axial	494.3012	9.603096	9.634826	9.554018	9.620443
THALLIUM	190.856	Axial	207.0910	1.037450	1.043099	1.028148	1.041102
TIN	189.989	Axial	420.5682	0.9971473	1.001152	0.9897648	1.000525
TITANIUM	334.941	Radial	1684.681	1.027112	1.023004	1.025033	1.033301
VANADIUM	292.402	Radial	595.1077	0.9982346	0.9960290	0.9991745	0.9995004
ZINC	206.200	Axial	2486.784	1.032107	1.032584	1.036220	1.027517

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-01 DF: 1x Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:28 Sequence: 120

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6967.719	6898.904	7005.703	6998.549
YTTRIUM	360.073	Axial	64783.72	64933.19	64748.86	64669.11
YTTRIUM	360.073	Radial	4923.928	4921.531	4927.664	4922.588
INDIUM	230.606	Axial	1294.238	1289.453	1296.701	1296.562

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	3.961300	0.01311405	0.01302296	0.01314561	0.01317357
BARIUM	233.527	Axial	4667.017	0.7169218	0.7219896	0.7121413	0.7166345
BORON	249.678	Radial	3.829540	0.01846879	0.01991933	0.01828813	0.01719892
CADMIUM	228.802	Axial	14.42964	0.002111957	0.002649528	0.001289933	0.002396410
CHROMIUM	267.716	Axial	77.18213	0.03434815	0.03471255	0.03379601	0.03453589
COBALT	228.616	Axial	30.21350	0.03539733	0.03544352	0.03598749	0.03476098
LEAD	220.353	Axial	115.9551	0.2639541	0.2614612	0.2658606	0.2645404
LITHIUM	670.784	Radial	6.540943	0.01292891	0.007848823	0.01661065	0.01432727
SELENIUM	196.090	Axial	0.3709082	0.003217008	0.01212959	0.001524937	-0.004003501
SILVER	328.068	Axial	-10.0769	0.002064978	0.001826954	0.002433841	0.001934139
ALUMINUM	308.215	Radial	992.8980	16.81612	16.87570	16.77622	16.79644
ANTIMONY	206.833	Axial	1.122688	0.005402241	0.004481970	0.01173337	-0.000008613501
BERYLLIUM	313.042	Radial	60.35683	0.003467612	0.003432616	0.003474759	0.003495461
CALCIUM	373.690	Radial	42106.51	413.1153	412.2180	412.7237	414.4041
CERIUM	535.353	Radial	21.04279	0.01746846	0.01737691	0.01776990	0.01725857
COPPER	324.754	Axial	428.1804	0.09583758	0.09511486	0.09568889	0.09670900
IRON	271.441	Radial	991.7901	46.58876	46.69770	46.74522	46.32337
LANTHANUM	333.749	Radial	29.62248	0.06206738	0.06521133	0.06197108	0.05901972
MAGNESIUM	279.079	Radial	2461.470	28.00440	28.05754	28.06311	27.89255
MANGANESE	257.610	Axial	81793.55	3.512433	3.529560	3.501197	3.506543
MOLYBDENUM	202.030	Axial	4.195268	0.004973429	0.006369081	0.004423833	0.004127373
NICKEL	231.604	Axial	70.49113	0.07444089	0.07445626	0.07430481	0.07456158
PHOSPHORUS	177.495	Axial	714.3479	3.536429	3.595526	3.541328	3.472434
POTASSIUM	766.490	Radial	408.2496	4.349715	4.354301	4.289243	4.405601
SILICON	251.611	Axial	11246.09	10.30566	10.20273	10.33891	10.37534
SODIUM	589.592	Radial	446.9378	1.183839	1.175643	1.188594	1.187280
STRONTIUM	421.552	Radial	7372.132	0.6803041	0.6806504	0.6796436	0.6806184
SULFUR	182.034	Axial	211.7439	3.854750	3.876169	3.893812	3.794270
THALLIUM	190.856	Axial	-0.4501891	0.001597971	-0.002064845	0.005582567	0.001276192
TIN	189.989	Axial	1.752326	0.005703286	0.004156121	0.006556333	0.006397404
TITANIUM	334.941	Radial	219.0083	0.1286544	0.1290128	0.1278407	0.1291097
VANADIUM	292.402	Radial	46.30882	0.07634997	0.07117985	0.07868414	0.07918594
ZINC	206.200	Axial	1401.126	0.5510333	0.5597408	0.5450605	0.5482985

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1837825-01 Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:29 Sequence: 121

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6846.456	6934.513	6781.054	6823.802
YTTRIUM	360.073	Axial	65182.55	65903.76	64343.61	65300.27
YTTRIUM	360.073	Radial	4744.443	4739.003	4756.972	4737.355
INDIUM	230.606	Axial	1372.248	1385.711	1358.697	1372.335

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	2.381152	0.005923136	0.02566477	0.02503555	0.03814674
BARIUM	233.527	Axial	967.8901	0.1523867	0.7546056	0.7589581	0.7722374
BORON	249.678	Radial	1.423983	0.007580314	0.02848284	0.02830082	0.05692104
CADMIUM	228.802	Axial	8.435644	-0.0004215002	-0.005476340	0.001104631	-0.001950792
CHROMIUM	267.716	Axial	11.04920	0.008248464	0.04212390	0.03756256	0.04404051
COBALT	228.616	Axial	0.5129718	0.006457374	0.03495277	0.02779984	0.03410802
LEAD	220.353	Axial	24.73007	0.05307854	0.2772196	0.2674177	0.2515408
LITHIUM	670.784	Radial	-1.11711	0.005816840	-0.004602226	0.02066246	0.07119237
SELENIUM	196.090	Axial	0.2593698	0.002049342	0.03237130	0.009305718	-0.01093689
SILVER	328.068	Axial	-11.0470	0.001846929	0.01191156	0.01464946	0.001142918
ALUMINUM	308.215	Radial	195.1066	3.491144	17.72451	17.39733	17.24532
ANTIMONY	206.833	Axial	1.747214	0.009806230	0.03887627	0.06871686	0.03950033
BERYLLIUM	313.042	Radial	13.35376	0.0006554648	0.002405307	0.003842971	0.003583694
CALCIUM	373.690	Radial	8630.672	87.90586	443.5385	436.3908	438.6586
CERIUM	535.353	Radial	11.30265	-0.08510382	-0.4850182	-0.4289654	-0.3625738
COPPER	324.754	Axial	91.45828	0.02229754	0.1106653	0.1139602	0.1098375
IRON	259.940	Radial	2560.147	10.22902	51.09577	50.91794	51.42164
LANTHANUM	333.749	Radial	5.018338	0.01765025	0.09357547	0.08461997	0.08655838
MAGNESIUM	279.079	Radial	505.6306	5.996178	30.08951	29.88260	29.97056
MANGANESE	257.610	Axial	17107.68	0.7481568	3.723125	3.738225	3.761004
MOLYBDENUM	202.030	Axial	2.464337	0.002638796	0.02158077	0.01338696	0.004614200
NICKEL	231.604	Axial	18.19408	0.01713678	0.08287697	0.09206246	0.08211228
PHOSPHORUS	177.495	Axial	148.6780	0.7442214	3.697101	3.778174	3.688045
POTASSIUM	766.490	Radial	65.03073	0.9017086	4.725335	4.297020	4.503273
SILICON	251.611	Axial	2399.791	2.177764	10.88748	10.83620	10.94278
SODIUM	589.592	Radial	61.21815	0.1819296	1.005818	0.8714203	0.8517059
STRONTIUM	421.552	Radial	1496.024	0.1427510	0.7142668	0.7103780	0.7166200
SULFUR	182.034	Axial	46.76077	0.8033438	4.036063	3.960482	4.053612
THALLIUM	190.856	Axial	-1.14914	-0.001647383	-0.006193692	0.02510810	-0.04362515
TIN	189.989	Axial	-0.3133304	0.0006853628	0.003915889	0.00004161478	0.006322939
TITANIUM	334.941	Radial	43.03258	0.02761354	0.1416602	0.1340191	0.1385239
VANADIUM	292.402	Radial	10.75755	0.02036512	0.09881203	0.09871258	0.1079521
ZINC	206.200	Axial	294.5038	0.1166716	0.5728674	0.5924988	0.5847078

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1837825-01 Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:31 Sequence: 122

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6873.222	6833.686	6939.870	6846.111
YTTRIUM	360.073	Axial	63838.22	63723.28	63535.19	64256.18
YTTRIUM	360.073	Radial	4874.761	4888.521	4890.390	4845.371
INDIUM	230.606	Axial	1274.533	1271.242	1276.471	1275.887

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	205.8914	0.9708635	0.9727535	0.9705548	0.9692823
BARIUM	233.527	Axial	10662.42	1.658637	1.661616	1.646038	1.668255
BORON	249.678	Radial	205.6960	0.9629758	0.9595224	0.9625199	0.9668851
CADMIUM	228.802	Axial	2148.138	0.9406440	0.9401894	0.9303796	0.9513629
CHROMIUM	267.716	Axial	2431.776	0.9794520	0.9786660	0.9745874	0.9851025
COBALT	228.616	Axial	1010.445	1.004634	1.001798	1.002202	1.009904
LEAD	220.353	Axial	533.0496	1.232231	1.229590	1.226267	1.240837
LITHIUM	670.784	Radial	1143.876	1.074723	1.075306	1.080929	1.067933
SELENIUM	196.090	Axial	88.65013	0.9240787	0.9331009	0.9131321	0.9260030
SILVER	328.068	Axial	713.9646	0.1823740	0.1812940	0.1830493	0.1827789
ALUMINUM	308.215	Radial	1549.298	26.45980	26.45192	26.36526	26.56222
ANTIMONY	206.833	Axial	140.4460	0.9490413	0.9597699	0.9262513	0.9611028
BERYLLIUM	313.042	Radial	15752.30	0.9620693	0.9614593	0.9611672	0.9635815
CALCIUM	373.690	Radial	42183.53	418.0449	418.0113	418.0010	418.1226
CERIUM	535.353	Radial	22.48873	0.03599917	0.05971705	-0.02107128	0.06935176
COPPER	324.754	Axial	4821.286	1.069297	1.067010	1.072210	1.068672
IRON	271.441	Radial	1179.845	55.98249	55.96656	55.96119	56.01973
LANTHANUM	333.749	Radial	17.16829	0.03972320	0.04087433	0.03882409	0.03947119
MAGNESIUM	279.079	Radial	3251.825	37.35875	37.36803	37.27003	37.43820
MANGANESE	257.610	Axial	101847.2	4.433642	4.437116	4.391259	4.472550
MOLYBDENUM	202.030	Axial	694.7713	0.9671940	0.9691101	0.9581404	0.9743317
NICKEL	231.604	Axial	950.1096	1.035465	1.032814	1.039549	1.034031
PHOSPHORUS	177.495	Axial	889.3676	4.464599	4.416793	4.473289	4.503716
POTASSIUM	766.490	Radial	1411.649	14.64736	14.60261	14.53210	14.80737
SILICON	251.611	Axial	11989.31	11.15025	11.09140	11.22876	11.13060
SODIUM	589.592	Radial	4330.720	11.44741	11.44658	11.37331	11.52234
STRONTIUM	421.552	Radial	17747.44	1.655184	1.657045	1.663453	1.645055
SULFUR	182.034	Axial	702.6888	13.16007	13.05544	13.08876	13.33600
THALLIUM	190.856	Axial	186.1884	0.9805355	0.9780079	0.9760519	0.9875467
TIN	189.989	Axial	392.6981	0.9785883	0.9750364	0.9856752	0.9750531
TITANIUM	334.941	Radial	1867.172	1.094764	1.088956	1.094303	1.101033
VANADIUM	292.402	Radial	632.7290	1.020720	1.020597	1.020539	1.021024
ZINC	206.200	Axial	3711.117	1.482097	1.491278	1.471262	1.483749

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1837825-01 Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:33 Sequence: 123

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6834.905	6824.442	6866.074	6814.199
YTTRIUM	360.073	Axial	63194.45	62935.06	63701.38	62946.93
YTTRIUM	360.073	Radial	4888.346	4872.788	4908.276	4883.973
INDIUM	230.606	Axial	1252.350	1248.593	1262.040	1246.416

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	196.5127	0.9316283	0.9301656	0.9261349	0.9385844
BARIUM	233.527	Axial	10961.73	1.714658	1.711125	1.711373	1.721476
BORON	249.678	Radial	195.4970	0.9127261	0.9172253	0.9066864	0.9142666
CADMIUM	228.802	Axial	2104.925	0.9267803	0.9216496	0.9286220	0.9300692
CHROMIUM	267.716	Axial	2407.155	0.9749639	0.9809656	0.9747427	0.9691835
COBALT	228.616	Axial	995.5164	1.007337	1.001086	1.001986	1.018940
LEAD	220.353	Axial	524.2922	1.233494	1.233029	1.224791	1.242664
LITHIUM	670.784	Radial	1158.681	1.085559	1.086774	1.085990	1.083913
SELENIUM	196.090	Axial	73.73815	0.7728147	0.7668568	0.7665267	0.7850607
SILVER	328.068	Axial	767.1605	0.1975810	0.1967443	0.1951232	0.2008755
ALUMINUM	308.215	Radial	1997.628	33.99948	34.09929	33.90648	33.99268
ANTIMONY	206.833	Axial	115.5907	0.7850265	0.7887819	0.7789520	0.7873456
BERYLLIUM	313.042	Radial	15602.51	0.9502693	0.9497678	0.9481694	0.9528707
CALCIUM	373.690	Radial	53120.14	524.9592	526.1439	524.2736	524.4600
CERIUM	535.353	Radial	23.93284	0.05113688	0.02130286	0.08778484	0.04432293
COPPER	324.754	Axial	4679.712	1.048532	1.043385	1.044245	1.057965
IRON	271.441	Radial	1446.601	68.44989	68.55670	68.43652	68.35645
LANTHANUM	333.749	Radial	23.61566	0.05145813	0.05646023	0.04972790	0.04818627
MAGNESIUM	279.079	Radial	4194.959	48.05054	48.18621	47.97087	47.99454
MANGANESE	257.610	Axial	119072.6	5.212258	5.202042	5.201346	5.233385
MOLYBDENUM	202.030	Axial	624.1446	0.8736479	0.8712280	0.8670036	0.8827119
NICKEL	231.604	Axial	947.2499	1.050683	1.051361	1.044542	1.056144
PHOSPHORUS	177.495	Axial	890.9159	4.497552	4.432577	4.512789	4.547291
POTASSIUM	766.490	Radial	1432.165	14.81590	14.84426	14.81585	14.78758
SILICON	251.611	Axial	16026.87	15.06049	15.20462	15.03930	14.93755
SODIUM	589.592	Radial	4305.246	11.34831	11.36693	11.38305	11.29496
STRONTIUM	421.552	Radial	19659.56	1.828508	1.815151	1.831475	1.838898
SULFUR	182.034	Axial	683.4260	12.86911	12.86840	12.83786	12.90105
THALLIUM	190.856	Axial	175.2070	0.9392451	0.9318370	0.9333449	0.9525534
TIN	189.989	Axial	384.1953	0.9744235	0.9788885	0.9609162	0.9834659
TITANIUM	334.941	Radial	1521.532	0.8899382	0.8887393	0.8891515	0.8919238
VANADIUM	292.402	Radial	632.9307	1.018223	1.021760	1.014170	1.018739
ZINC	206.200	Axial	3625.365	1.455911	1.440931	1.448730	1.478074

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1837825-01 Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:34 Sequence: 124

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6830.132	6831.020	6899.857	6759.519
YTTRIUM	360.073	Axial	63696.36	63642.61	63707.51	63738.95
YTTRIUM	360.073	Radial	4864.283	4875.362	4874.958	4842.531
INDIUM	230.606	Axial	1262.518	1265.877	1257.778	1263.900

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	191.1300	0.9067107	0.9095710	0.8868633	0.9236977
BARIUM	233.527	Axial	11032.05	1.726893	1.726580	1.720037	1.734061
BORON	249.678	Radial	189.6265	0.8896971	0.8957046	0.8863364	0.8870502
CADMIUM	228.802	Axial	2063.239	0.9090258	0.9059695	0.9044753	0.9166327
CHROMIUM	267.716	Axial	2360.953	0.9570060	0.9559821	0.9554787	0.9595570
COBALT	228.616	Axial	973.3749	0.9771567	0.9758884	0.9774524	0.9781294
LEAD	220.353	Axial	535.9936	1.250838	1.245255	1.253162	1.254095
LITHIUM	670.784	Radial	1115.853	1.050821	1.054878	1.049498	1.048087
SELENIUM	196.090	Axial	71.58816	0.7508428	0.7656656	0.7325696	0.7542933
SILVER	328.068	Axial	758.6942	0.1939368	0.1941970	0.1933422	0.1942712
ALUMINUM	308.215	Radial	2006.034	34.31018	34.44080	34.32692	34.16283
ANTIMONY	206.833	Axial	112.9584	0.7676769	0.7710009	0.7586223	0.7734075
BERYLLIUM	313.042	Radial	15071.08	0.9224262	0.9234756	0.9252765	0.9185264
CALCIUM	373.690	Radial	47342.95	470.1772	470.6868	471.8519	467.9927
CERIUM	535.353	Radial	25.18847	0.06648170	0.08355231	0.07265216	0.04324064
COPPER	324.754	Axial	4640.706	1.031620	1.027004	1.029950	1.037905
IRON	271.441	Radial	1417.343	67.39676	67.62446	67.29184	67.27397
LANTHANUM	333.749	Radial	26.27344	0.05656021	0.05869395	0.05439530	0.05659138
MAGNESIUM	279.079	Radial	3347.015	38.53355	38.66341	38.55201	38.38523
MANGANESE	257.610	Axial	104138.3	4.562056	4.556740	4.521582	4.607845
MOLYBDENUM	202.030	Axial	606.7090	0.8498570	0.8469516	0.8425258	0.8600934
NICKEL	231.604	Axial	928.2919	1.021304	1.018374	1.022604	1.022936
PHOSPHORUS	177.495	Axial	873.0997	4.410585	4.352095	4.439553	4.440108
POTASSIUM	766.490	Radial	1383.294	14.38735	14.47349	14.37762	14.31092
SILICON	251.611	Axial	15611.98	14.55461	14.55341	14.67346	14.43695
SODIUM	589.592	Radial	4188.219	11.09479	11.11075	11.10318	11.07044
STRONTIUM	421.552	Radial	19156.86	1.790556	1.785065	1.801237	1.785366
SULFUR	182.034	Axial	670.1489	12.62665	12.54274	12.62007	12.71715
THALLIUM	190.856	Axial	172.3741	0.9166954	0.9094872	0.9219728	0.9186262
TIN	189.989	Axial	374.0810	0.9411314	0.9351133	0.9425056	0.9457752
TITANIUM	334.941	Radial	1504.062	0.8840823	0.8885493	0.8797830	0.8839146
VANADIUM	292.402	Radial	618.7758	1.000399	1.002448	1.004151	0.9945972
ZINC	206.200	Axial	4209.960	1.692300	1.693239	1.659690	1.723970

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-02 DF: 1x Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:36 Sequence: 125

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6352.847	6347.487	6287.672	6423.383
YTTRIUM	360.073	Axial	58545.91	58713.96	58059.17	58864.60
YTTRIUM	360.073	Radial	4650.544	4615.785	4709.969	4625.879
INDIUM	230.606	Axial	1157.580	1153.911	1154.459	1164.368

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.960932	0.004660401	0.009438421	0.004049978	0.0004928054
BARIUM	233.527	Axial	3972.162	0.6693045	0.6646880	0.6717302	0.6714951
BORON	249.678	Radial	0.7564091	0.004438398	0.005878538	0.005244827	0.002191828
CADMIUM	228.802	Axial	11.82637	0.001475422	0.001427322	0.001378044	0.001620901
CHROMIUM	267.716	Axial	58.44994	0.02917501	0.02985913	0.02926177	0.02840413
COBALT	228.616	Axial	31.68046	0.04046493	0.04110062	0.03972566	0.04056852
LEAD	220.353	Axial	38.68471	0.09844218	0.09842946	0.09584751	0.1010496
LITHIUM	670.784	Radial	22.54958	0.02896549	0.02615921	0.02626069	0.03447657
SELENIUM	196.090	Axial	0.7679458	0.008029275	0.002355905	0.01196598	0.009765939
SILVER	328.068	Axial	3.131797	0.005393686	0.004151481	0.006700601	0.005328975
ALUMINUM	308.215	Radial	920.2593	16.50406	16.60904	16.42810	16.47505
ANTIMONY	206.833	Axial	1.155891	0.006355863	-0.0005547731	0.007132202	0.01249016
BERYLLIUM	313.042	Radial	46.36781	0.002787003	0.002844286	0.002703212	0.002813511
CALCIUM	373.690	Radial	142343.6	1478.632	1490.471	1471.028	1474.397
CERIUM	535.353	Radial	17.43439	-0.01076591	0.03692187	-0.04188148	-0.02733811
COPPER	324.754	Axial	286.7095	0.07164896	0.07150409	0.07133877	0.07210401
IRON	271.441	Radial	1011.892	50.33091	50.75224	49.84076	50.39974
LANTHANUM	333.749	Radial	27.00243	0.06016481	0.05529232	0.06347414	0.06172796
MAGNESIUM	279.079	Radial	2291.880	27.60983	27.84985	27.37825	27.60138
MANGANESE	257.610	Axial	97630.22	4.598018	4.566602	4.621730	4.605721
MOLYBDENUM	202.030	Axial	29.45003	0.04359438	0.04335162	0.04414347	0.04328806
NICKEL	231.604	Axial	49.95514	0.05871179	0.05800974	0.05999792	0.05812771
PHOSPHORUS	177.495	Axial	348.9793	1.891919	1.864048	1.916355	1.895353
POTASSIUM	766.490	Radial	258.8004	2.991315	3.014909	3.008854	2.950181
SILICON	251.611	Axial	6596.596	6.685276	6.675499	6.644542	6.735786
SODIUM	589.592	Radial	308.3561	0.8691014	0.8769627	0.8640321	0.8663094
STRONTIUM	421.552	Radial	26606.86	2.601545	2.601960	2.595893	2.606782
SULFUR	182.034	Axial	173.0748	3.447496	3.428612	3.491168	3.422709
THALLIUM	190.856	Axial	-1.60190	-0.005323691	-0.006108368	-0.005405660	-0.004457046
TIN	189.989	Axial	0.8052472	0.003622811	0.007161718	0.001471117	0.002235599
TITANIUM	334.941	Radial	175.4583	0.1093978	0.1099228	0.1086165	0.1096540
VANADIUM	292.402	Radial	32.25079	0.05697271	0.05688004	0.05752449	0.05651361
ZINC	206.200	Axial	1214.487	0.5237555	0.5176653	0.5288907	0.5247104

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-03 DF: 1x Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:38 Sequence: 126

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6957.389	6803.634	6972.044	7096.488
YTTRIUM	360.073	Axial	64830.27	63754.12	65138.22	65598.46
YTTRIUM	360.073	Radial	4896.270	4923.666	4882.718	4882.427
INDIUM	230.606	Axial	1304.292	1288.506	1306.148	1318.221

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.796824	0.01707744	0.01833524	0.01773402	0.01516307
BARIUM	233.527	Axial	4942.824	0.7603984	0.7655355	0.7635734	0.7520864
BORON	249.678	Radial	0.3618196	0.002420055	0.001801706	0.002540412	0.002918047
CADMIUM	228.802	Axial	10.03246	0.0002136205	0.0007132803	-0.000007282570	-0.00006513630
CHROMIUM	267.716	Axial	91.43654	0.04005958	0.04131423	0.04017831	0.03868619
COBALT	228.616	Axial	29.19036	0.03418406	0.03404964	0.03502528	0.03347728
LEAD	220.353	Axial	36.82566	0.08316435	0.08186924	0.08300111	0.08462271
LITHIUM	670.784	Radial	14.80961	0.02065630	0.01834852	0.02677149	0.01684888
SELENIUM	196.090	Axial	0.2870222	0.002387447	0.006401106	0.005056258	-0.004295025
SILVER	328.068	Axial	-6.48145	0.002948887	0.002824493	0.003632184	0.002389984
ALUMINUM	308.215	Radial	1744.264	29.64888	29.67256	29.60967	29.66441
ANTIMONY	206.833	Axial	2.135057	0.01222204	0.01387316	0.01334242	0.009450535
BERYLLIUM	313.042	Radial	79.98880	0.004682094	0.004723069	0.004644222	0.004678993
CALCIUM	373.690	Radial	29139.01	287.5096	288.6660	286.3298	287.5331
CERIUM	535.353	Radial	25.55329	0.06871217	0.07857316	0.08175447	0.04580890
COPPER	324.754	Axial	314.0539	0.07089821	0.07037143	0.07103224	0.07129096
IRON	271.441	Radial	1311.522	61.95680	62.14303	61.76145	61.96592
LANTHANUM	333.749	Radial	43.90149	0.08850088	0.08695167	0.08943433	0.08911665
MAGNESIUM	279.079	Radial	1093.787	12.53251	12.58177	12.48328	12.53249
MANGANESE	257.610	Axial	65224.20	2.805368	2.817890	2.817850	2.780365
MOLYBDENUM	202.030	Axial	3.181035	0.003587734	0.004198858	0.003577686	0.002986659
NICKEL	231.604	Axial	63.58117	0.06648594	0.06603332	0.06669328	0.06673121
PHOSPHORUS	177.495	Axial	414.6159	2.053283	2.069519	2.080105	2.010225
POTASSIUM	766.490	Radial	341.9940	3.698699	3.741607	3.693003	3.661488
SILICON	251.611	Axial	9012.568	8.251492	8.318741	8.230703	8.205030
SODIUM	589.592	Radial	152.0346	0.4154622	0.4065006	0.4212940	0.4185920
STRONTIUM	421.552	Radial	5670.723	0.5261118	0.5226028	0.5282013	0.5275314
SULFUR	182.034	Axial	87.78940	1.553502	1.582844	1.560714	1.516947
THALLIUM	190.856	Axial	-0.6010837	0.0008656863	0.003150906	0.0005454117	-0.001099259
TIN	189.989	Axial	0.6115157	0.002911243	0.003372507	0.005726604	-0.0003653819
TITANIUM	334.941	Radial	132.4340	0.07891345	0.07922043	0.07896255	0.07855738
VANADIUM	292.402	Radial	64.31613	0.1056156	0.1059685	0.1068804	0.1039979
ZINC	206.200	Axial	423.5644	0.1657601	0.1665452	0.1669845	0.1637506

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-04 DF: 1x Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:39 Sequence: 127

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6734.737	6721.446	6731.663	6751.101
YTTRIUM	360.073	Axial	62464.87	62076.46	63017.68	62300.47
YTTRIUM	360.073	Radial	4894.796	4901.548	4917.378	4865.461
INDIUM	230.606	Axial	1210.667	1206.601	1214.302	1211.098

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.771091	0.01767256	0.01746720	0.01626938	0.01928111
BARIUM	233.527	Axial	5895.239	0.9364770	0.9377542	0.9388129	0.9328639
BORON	249.678	Radial	0.8847338	0.004851185	0.003612010	0.006783575	0.004157972
CADMIUM	228.802	Axial	11.61437	0.001062742	0.001293887	0.001414613	0.0004797256
CHROMIUM	267.716	Axial	87.66550	0.03969519	0.03899862	0.04060835	0.03947861
COBALT	228.616	Axial	76.05362	0.08511979	0.08377635	0.08570821	0.08587481
LEAD	220.353	Axial	66.11628	0.1608902	0.1595051	0.1594091	0.1637564
LITHIUM	670.784	Radial	13.51207	0.01944749	0.01871390	0.02002748	0.01960108
SELENIUM	196.090	Axial	0.2610921	0.002140632	0.008088482	-0.003129210	0.001462625
SILVER	328.068	Axial	0.4430769	0.004657788	0.007591831	0.003788721	0.002592812
ALUMINUM	308.215	Radial	1235.021	21.02174	21.04092	21.02301	21.00130
ANTIMONY	206.833	Axial	1.090100	0.005447884	0.008986519	0.005114595	0.002242539
BERYLLIUM	313.042	Radial	70.93417	0.004132795	0.004089084	0.004171617	0.004137685
CALCIUM	373.690	Radial	95654.65	944.0334	944.7500	943.1019	944.2483
CERIUM	535.353	Radial	26.49538	0.07924664	0.04899110	0.1051805	0.08356833
COPPER	324.754	Axial	285.9507	0.06714196	0.06676366	0.06623183	0.06843038
IRON	271.441	Radial	1466.274	69.28924	69.19709	69.35988	69.31075
LANTHANUM	333.749	Radial	44.14281	0.08897119	0.08431472	0.08972341	0.09287543
MAGNESIUM	279.079	Radial	4461.108	51.02944	51.05365	51.02347	51.01120
MANGANESE	257.610	Axial	133673.5	5.938329	5.935566	5.975492	5.903929
MOLYBDENUM	202.030	Axial	3.666765	0.004415340	0.004217093	0.005493018	0.003535910
NICKEL	231.604	Axial	53.05694	0.05963891	0.05858568	0.06131567	0.05901538
PHOSPHORUS	177.495	Axial	586.8737	3.004776	3.062365	2.988452	2.963511
POTASSIUM	766.490	Radial	377.2062	4.058178	4.085917	4.070866	4.017751
SILICON	251.611	Axial	11013.46	10.46763	10.47058	10.34592	10.58641
SODIUM	589.592	Radial	324.6304	0.8692460	0.8640746	0.8805589	0.8631045
STRONTIUM	421.552	Radial	12795.59	1.188310	1.189892	1.186655	1.188383
SULFUR	182.034	Axial	212.1286	3.998156	3.973461	3.973664	4.047343
THALLIUM	190.856	Axial	-1.72599	-0.005602725	-0.005154871	-0.002639727	-0.009013577
TIN	189.989	Axial	1.045079	0.004152180	0.005654481	0.003594756	0.003207304
TITANIUM	334.941	Radial	155.4989	0.09238299	0.09261351	0.09255996	0.09197551
VANADIUM	292.402	Radial	66.96794	0.1099048	0.1089165	0.1084545	0.1123434
ZINC	206.200	Axial	680.2733	0.2760129	0.2801913	0.2770409	0.2708064

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 12:41 Sequence: 128 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6537.657	6540.655	6596.923	6475.393
YTTRIUM	360.073	Axial	61653.26	61421.63	62059.17	61478.96
YTTRIUM	360.073	Radial	4631.740	4614.989	4645.159	4635.073
INDIUM	230.606	Axial	1286.898	1278.038	1301.691	1280.965

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	550.7674	9.948182	9.901119	9.972882	9.970545
ANTIMONY	206.833	Axial	71.44432	0.5065492	0.5102225	0.5002322	0.5091928
ARSENIC	189.042	Axial	202.3366	1.003293	0.9950757	1.000741	1.014064
BARIUM	233.527	Axial	3108.984	0.5093903	0.5070205	0.5084929	0.5126577
BERYLLIUM	313.042	Radial	3133.223	0.2012553	0.2007393	0.2015882	0.2014385
BORON	249.678	Radial	205.1998	1.011008	1.011341	1.012277	1.009404
CADMIUM	228.802	Axial	1084.303	0.4972160	0.4931633	0.4970673	0.5014174
CALCIUM	373.690	Radial	5021.461	52.40138	52.33413	52.60176	52.26826
CHROMIUM	267.716	Axial	2358.573	0.9986246	0.9911852	1.003633	1.001056
COBALT	228.616	Axial	993.4055	0.9784349	0.9818225	0.9656908	0.9877914
COPPER	324.754	Axial	4447.858	1.021555	1.019111	1.017384	1.028169
IRON	259.940	Radial	2583.119	10.57197	10.54863	10.63670	10.53059
LEAD	220.353	Axial	217.7607	0.4985505	0.4983793	0.4977151	0.4995572
LITHIUM	670.784	Radial	1045.269	1.033890	1.033736	1.032324	1.035609
MAGNESIUM	279.079	Radial	849.3022	10.29302	10.30389	10.30405	10.27113
MANGANESE	257.610	Axial	22230.39	1.017913	1.017870	1.008140	1.027731
MOLYBDENUM	202.030	Axial	174.4046	0.2546757	0.2528899	0.2518121	0.2593252
NICKEL	231.604	Axial	895.6736	0.9667090	0.9650957	0.9603611	0.9746702
PHOSPHORUS	177.495	Axial	190.4989	1.000759	0.9986957	0.9819121	1.021668
POTASSIUM	766.490	Radial	4729.272	51.09170	51.05250	50.97831	51.24429
SELENIUM	196.090	Axial	89.23724	0.9779275	0.9539193	0.9900906	0.9897725
SILICON	251.611	Axial	2079.001	1.993793	1.978082	2.015714	1.987582
SILVER	328.068	Axial	1968.703	0.5123025	0.5126429	0.5073297	0.5169350
SODIUM	818.326	Radial	424.7816	48.65799	49.07437	48.59511	48.30448
STRONTIUM	421.552	Radial	10381.73	1.018799	1.020011	1.021361	1.015023
SULFUR	182.034	Axial	249.0952	4.853875	4.807571	4.821384	4.932671
THALLIUM	190.856	Axial	197.5250	1.030092	1.029132	1.021551	1.039593
TIN	189.989	Axial	200.7970	0.4962906	0.4958429	0.4924794	0.5005494
TITANIUM	334.941	Radial	1628.848	1.005263	1.005670	1.005994	1.004127
VANADIUM	292.402	Radial	593.4710	1.007639	1.000497	1.014690	1.007730
ZINC	206.200	Axial	2403.502	1.008697	1.006226	0.9975827	1.022282
CERIUM	535.353	Radial	10.61696	-0.08996441	-0.06931352	-0.08594784	-0.1146319
LANTHANUM	333.749	Radial	-5.09315	-0.001682558	-0.004109813	0.001510203	-0.002448063

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 12:43 Sequence: 129

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6556.884	6505.581	6574.260	6590.810
YTTRIUM	360.073	Axial	63520.21	63260.17	63648.87	63651.58
YTTRIUM	360.073	Radial	4653.475	4628.148	4709.415	4622.861
INDIUM	230.606	Axial	1396.120	1380.629	1398.450	1409.281

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.07881	0.004753645	-0.003822295	0.009791294	0.008291935
ANTIMONY	206.833	Axial	0.7677780	0.003352250	0.003023879	-0.003535513	0.01056838
ARSENIC	189.042	Axial	0.4298081	-0.003263890	-0.0002359052	-0.002425573	-0.007130191
BARIUM	233.527	Axial	-5.97934	0.0003827184	0.0004809769	0.0005261053	0.0001410731
BERYLLIUM	313.042	Radial	2.326528	-0.00003416998	-0.00001304959	0.00004704426	-0.0001365046
BORON	249.678	Radial	-0.3224634	-0.0008056285	-0.001555305	-0.007433031	0.006571451
CADMIUM	228.802	Axial	8.061828	-0.0004345364	-0.0004690945	-0.0005144547	-0.0003200600
CALCIUM	317.933	Radial	14.90310	0.01562416	0.01196777	0.01841301	0.01649171
CERIUM	535.353	Radial	10.18691	-0.09564792	-0.08502007	-0.08600268	-0.1159210
CHROMIUM	267.716	Axial	-6.64045	0.001004207	-0.00004745577	0.001930230	0.001129847
COBALT	228.616	Axial	-6.28224	0.0003254602	0.0005763046	0.0006006111	-0.0002005352
COPPER	324.754	Axial	-1.61612	0.002113728	0.001303337	0.002180896	0.002856950
IRON	259.940	Radial	2.658589	0.005557265	0.004459206	0.005791453	0.006421135
LANTHANUM	333.749	Radial	-1.04425	0.006188796	0.004965067	0.002213106	0.01138821
LEAD	220.353	Axial	0.3219022	0.0006592130	-0.001186636	0.002623231	0.0005410435
LITHIUM	670.784	Radial	-3.43290	0.003543726	-0.0003004739	0.001257083	0.009674569
MAGNESIUM	279.079	Radial	-2.44751	0.003476702	-0.002376962	0.008572666	0.004234403
MANGANESE	257.610	Axial	-11.7369	0.00009364361	-0.00007162630	0.0003207724	0.00003178467
MOLYBDENUM	202.030	Axial	1.694282	0.001673208	0.0009758200	0.002682619	0.001361186
NICKEL	231.604	Axial	2.585390	0.001265346	0.001771804	-0.0004305277	0.002454762
PHOSPHORUS	177.495	Axial	1.450834	0.001495790	0.001293115	0.001839871	0.001354386
POTASSIUM	766.490	Radial	-21.4568	-0.01097571	0.02166648	-0.01667934	-0.03791428
SELENIUM	196.090	Axial	0.2908615	0.002540397	0.004112687	-0.002529816	0.006038321
SILICON	251.611	Axial	13.79811	0.002989944	0.003755701	0.004151972	0.001062160
SILVER	328.068	Axial	-11.3178	0.001703899	0.001183719	0.001463084	0.002464893
SODIUM	589.592	Radial	-20.9440	-0.04196054	-0.03821502	-0.05173041	-0.03593620
STRONTIUM	421.552	Radial	2.777527	-0.0003951070	-0.000001150275	-0.0004510699	-0.0007331007
SULFUR	182.034	Axial	3.572184	-0.01058642	0.0003755447	-0.02024670	-0.01188809
THALLIUM	190.856	Axial	0.4190758	0.005931199	0.004282267	0.008065696	0.005445633
TIN	189.989	Axial	-0.2040696	0.0009541247	0.002887775	-0.001989853	0.001964452
TITANIUM	334.941	Radial	-1.99993	0.0005045211	0.0003933803	0.0003506579	0.0007695250
VANADIUM	292.402	Radial	-2.15435	-0.001039210	0.0001270529	-0.003336191	0.00009150907
ZINC	206.200	Axial	2.284231	-0.0005772561	0.000008179694	-0.001328907	-0.0004110405

Sample ID: L1837825-05 DF: 1x Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:44 Sequence: 130

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6708.587	6752.032	6694.214	6679.515
YTTRIUM	360.073	Axial	61845.89	62704.65	61465.66	61367.35
YTTRIUM	360.073	Radial	4825.157	4817.322	4827.531	4830.617
INDIUM	230.606	Axial	1199.222	1209.119	1193.737	1194.811

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.540557	0.01665586	0.01334450	0.01710613	0.01951696
BARIUM	233.527	Axial	4072.382	0.6498416	0.6512636	0.6475705	0.6506906
BORON	249.678	Radial	3.122227	0.01548890	0.01481463	0.01843083	0.01322124
CADMIUM	228.802	Axial	11.48109	0.001020127	0.001713946	0.0006103528	0.0007360816
CHROMIUM	267.716	Axial	70.50995	0.03278172	0.03311247	0.03362583	0.03160686
COBALT	228.616	Axial	36.67755	0.04451914	0.04392510	0.04405090	0.04558143
LEAD	220.353	Axial	32.96301	0.08099511	0.07563664	0.08336750	0.08398118
LITHIUM	670.784	Radial	17.56003	0.02344823	0.02489350	0.02369560	0.02175558
SELENIUM	196.090	Axial	0.3974669	0.003584165	0.01099522	-0.004214335	0.003971611
SILVER	328.068	Axial	6.467874	0.006202881	0.005995576	0.005662937	0.006950129
ALUMINUM	308.215	Radial	1067.589	18.44374	18.51658	18.41361	18.40103
ANTIMONY	206.833	Axial	1.640416	0.009303651	0.004672115	0.01381494	0.009423899
BERYLLIUM	313.042	Radial	62.50683	0.003674997	0.003647266	0.003679958	0.003697766
CALCIUM	373.690	Radial	110749.6	1108.779	1112.468	1107.046	1106.823
CERIUM	535.353	Radial	21.93195	0.03222350	0.05285506	0.01886663	0.02494881
COPPER	324.754	Axial	255.1786	0.06076646	0.05950545	0.06147100	0.06132294
IRON	271.441	Radial	1101.815	52.81716	52.77991	52.89402	52.77756
LANTHANUM	333.749	Radial	29.65051	0.06322172	0.06188836	0.06600823	0.06176856
MAGNESIUM	279.079	Radial	4591.350	53.27600	53.48809	53.23403	53.10589
MANGANESE	257.610	Axial	73975.35	3.299359	3.300562	3.298784	3.298730
MOLYBDENUM	202.030	Axial	4.475683	0.005582209	0.007802675	0.004684600	0.004259351
NICKEL	231.604	Axial	68.85542	0.07854793	0.07794919	0.07831153	0.07938308
PHOSPHORUS	177.495	Axial	502.2335	2.580577	2.564983	2.578145	2.598601
POTASSIUM	766.490	Radial	507.9408	5.463678	5.497584	5.447349	5.446099
SILICON	251.611	Axial	8945.754	8.585621	8.542919	8.625799	8.588144
SODIUM	589.592	Radial	322.6786	0.8763880	0.8808992	0.8718836	0.8763812
STRONTIUM	421.552	Radial	15785.51	1.487320	1.504906	1.488337	1.468716
SULFUR	182.034	Axial	279.7572	5.319906	5.275706	5.309838	5.374175
THALLIUM	190.856	Axial	-0.7833472	-0.0004330151	-0.001132670	0.002489906	-0.002656281
TIN	189.989	Axial	0.2853702	0.002162158	0.003200310	0.0004670811	0.002819083
TITANIUM	334.941	Radial	102.9086	0.06259123	0.06318424	0.06360180	0.06098765
VANADIUM	292.402	Radial	41.97374	0.07081331	0.07094996	0.06765792	0.07383206
ZINC	206.200	Axial	430.4278	0.1747589	0.1743525	0.1738284	0.1760958

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-06 DF: 1x Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:46 Sequence: 131

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7080.119	7033.151	7059.612	7147.595
YTTRIUM	360.073	Axial	66273.55	65823.27	66096.56	66900.83
YTTRIUM	360.073	Radial	4934.093	4893.599	4949.071	4959.609
INDIUM	230.606	Axial	1330.672	1316.193	1333.250	1342.572

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.827776	0.02141419	0.02287443	0.02004680	0.02132135
BARIUM	233.527	Axial	4631.640	0.7001994	0.6972792	0.7042120	0.6991072
BORON	249.678	Radial	1.453060	0.007453063	0.008826097	0.004891778	0.008641314
CADMIUM	228.802	Axial	11.76590	0.0008714205	0.0008487832	0.0006510440	0.001114434
CHROMIUM	267.716	Axial	88.12815	0.03812044	0.03693670	0.03867681	0.03874781
COBALT	228.616	Axial	35.88454	0.03996534	0.04077880	0.03973224	0.03938498
LEAD	220.353	Axial	63.86979	0.1413946	0.1392398	0.1427519	0.1421922
LITHIUM	670.784	Radial	9.664608	0.01580529	0.01693557	0.01741558	0.01306471
SELENIUM	196.090	Axial	0.06075277	-0.00005437327	-0.002134895	-0.003911615	0.005883390
SILVER	328.068	Axial	-2.68870	0.003889239	0.003277484	0.003762879	0.004627354
ALUMINUM	308.215	Radial	1709.403	28.83519	28.71133	28.78888	29.00537
ANTIMONY	206.833	Axial	0.9561454	0.004188823	0.003002602	0.004249686	0.005314181
BERYLLIUM	313.042	Radial	82.13493	0.004774264	0.004739885	0.004743664	0.004839244
CALCIUM	373.690	Radial	21597.07	211.4736	211.9017	211.4783	211.0407
CERIUM	535.353	Radial	27.32540	0.08577649	0.02096098	0.1085632	0.1278053
COPPER	324.754	Axial	309.3177	0.06840299	0.06777431	0.06919151	0.06824315
IRON	271.441	Radial	1302.904	61.07864	61.17310	60.87609	61.18672
LANTHANUM	333.749	Radial	43.26610	0.08671787	0.08400319	0.09058627	0.08556414
MAGNESIUM	279.079	Radial	943.1345	10.72810	10.66839	10.70109	10.81481
MANGANESE	257.610	Axial	99856.19	4.219790	4.215650	4.226232	4.217488
MOLYBDENUM	202.030	Axial	4.028062	0.004655223	0.006100282	0.004298703	0.003566684
NICKEL	231.604	Axial	70.81673	0.07271455	0.07417737	0.07174639	0.07221991
PHOSPHORUS	177.495	Axial	445.3785	2.167447	2.166812	2.197499	2.138030
POTASSIUM	766.490	Radial	314.8150	3.397977	3.463909	3.384696	3.345327
SILICON	251.611	Axial	10948.54	9.806726	9.797133	9.789763	9.833283
SODIUM	589.592	Radial	254.2500	0.6789867	0.6905997	0.6779329	0.6684275
STRONTIUM	421.552	Radial	2619.343	0.2407860	0.2408183	0.2407318	0.2408079
SULFUR	182.034	Axial	138.6906	2.455828	2.448779	2.462808	2.455898
THALLIUM	190.856	Axial	-0.8691195	-0.0004303814	0.0005279753	-0.0006472835	-0.001171836
TIN	189.989	Axial	0.8465282	0.003428314	0.003440513	0.002798959	0.004045469
TITANIUM	334.941	Radial	262.7123	0.1536670	0.1534936	0.1524240	0.1550835
VANADIUM	292.402	Radial	83.49430	0.1353113	0.1344030	0.1347508	0.1367802
ZINC	206.200	Axial	894.0702	0.3454465	0.3441511	0.3492357	0.3429528

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-08 DF: 1x Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:48 Sequence: 132

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6984.024	6913.326	7016.857	7021.890
YTTRIUM	360.073	Axial	65237.30	64988.39	65270.59	65452.93
YTTRIUM	360.073	Radial	4886.766	4932.778	4899.149	4828.370
INDIUM	230.606	Axial	1330.597	1327.241	1334.855	1329.696

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	6.078859	0.02296209	0.02511854	0.01527274	0.02849500
BARIUM	233.527	Axial	4198.948	0.6436509	0.6479800	0.6400436	0.6429292
BORON	249.678	Radial	0.6141233	0.003611876	0.002841802	0.002072286	0.005921539
CADMIUM	228.802	Axial	11.25121	0.0007186857	0.0006927374	0.0007820192	0.0006813006
CHROMIUM	267.716	Axial	115.6706	0.04947667	0.05048692	0.04918481	0.04875828
COBALT	228.616	Axial	39.53306	0.04341896	0.04489684	0.04214305	0.04321699
LEAD	220.353	Axial	63.76777	0.1411918	0.1455491	0.1400897	0.1379367
LITHIUM	670.784	Radial	10.15458	0.01635720	0.01170905	0.02000571	0.01735685
SELENIUM	196.090	Axial	0.03214888	-0.0003016664	0.001318497	0.009189750	-0.01141325
SILVER	328.068	Axial	-7.31419	0.002755955	0.003134182	0.002393176	0.002740509
ALUMINUM	308.215	Radial	1434.915	24.45172	24.46014	24.43542	24.45961
ANTIMONY	206.833	Axial	1.419503	0.007379677	0.009462070	0.005805449	0.006871512
BERYLLIUM	313.042	Radial	75.20774	0.004400683	0.004367874	0.004376110	0.004458066
CALCIUM	373.690	Radial	18147.42	179.4222	179.3988	178.8775	179.9903
CERIUM	535.353	Radial	23.32891	0.04463506	0.04512575	0.03737900	0.05140043
COPPER	324.754	Axial	288.2137	0.06487913	0.06370521	0.06603288	0.06489930
IRON	271.441	Radial	1588.015	75.16664	75.07312	75.14092	75.28589
LANTHANUM	333.749	Radial	30.29746	0.06372995	0.05983753	0.06623178	0.06512053
MAGNESIUM	279.079	Radial	554.6507	6.383842	6.380613	6.373224	6.397690
MANGANESE	257.610	Axial	94121.04	4.032321	4.060117	4.014426	4.022419
MOLYBDENUM	202.030	Axial	3.704312	0.004278184	0.003987549	0.003058070	0.005788934
NICKEL	231.604	Axial	66.82016	0.06853377	0.06885229	0.06881054	0.06793847
PHOSPHORUS	177.495	Axial	417.6743	2.060097	2.044433	2.079944	2.055913
POTASSIUM	766.490	Radial	217.9660	2.440953	2.448885	2.447543	2.426432
SILICON	251.611	Axial	9887.437	8.996232	8.967264	9.046629	8.974802
SODIUM	589.592	Radial	114.3213	0.3168390	0.3278926	0.3155588	0.3070657
STRONTIUM	421.552	Radial	2899.864	0.2692385	0.2697876	0.2673685	0.2705594
SULFUR	182.034	Axial	96.25662	1.703806	1.697040	1.735029	1.679349
THALLIUM	190.856	Axial	-1.09813	-0.001588048	-0.002834945	-0.001434187	-0.0004950121
TIN	189.989	Axial	-0.03657720	0.001321697	0.0002229978	0.003281903	0.0004601895
TITANIUM	334.941	Radial	236.3396	0.1397539	0.1388462	0.1382054	0.1422100
VANADIUM	292.402	Radial	92.20156	0.1505594	0.1538065	0.1496038	0.1482681
ZINC	206.200	Axial	837.8442	0.3280936	0.3285461	0.3279524	0.3277822

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-09 DF: 1x Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:49 Sequence: 133

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7078.761	7078.370	7071.244	7086.668
YTTRIUM	360.073	Axial	66670.87	66837.11	66173.71	67001.80
YTTRIUM	360.073	Radial	4953.995	4963.080	4948.060	4950.846
INDIUM	230.606	Axial	1388.562	1384.633	1382.170	1398.882

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.301375	0.01899375	0.01743732	0.02007292	0.01947100
BARIUM	233.527	Axial	5386.744	0.8142864	0.8146296	0.8118006	0.8164289
BORON	249.678	Radial	0.1967395	0.001633643	0.007708764	0.0007812049	-0.003589039
CADMIUM	228.802	Axial	11.22124	0.0006409639	0.0004880541	0.0009041252	0.0005307123
CHROMIUM	267.716	Axial	76.78407	0.03371186	0.03422707	0.03323194	0.03367656
COBALT	228.616	Axial	33.84237	0.03669240	0.03706478	0.03654418	0.03646825
LEAD	220.353	Axial	50.94631	0.1081016	0.1106101	0.1093065	0.1043881
LITHIUM	670.784	Radial	5.425748	0.01186870	0.01296960	0.01287842	0.009758085
SELENIUM	196.090	Axial	0.2930906	0.002319692	-0.002532973	-0.003711358	0.01320341
SILVER	328.068	Axial	-4.58331	0.003442759	0.002768824	0.003024427	0.004535025
ALUMINUM	308.215	Radial	1519.089	25.53148	25.40361	25.62267	25.56816
ANTIMONY	206.833	Axial	1.137640	0.005388918	0.004092030	0.005336088	0.006738637
BERYLLIUM	313.042	Radial	83.04319	0.004809170	0.004770898	0.004902380	0.004754231
CALCIUM	317.933	Radial	6811.151	33.07194	33.24901	32.82546	33.14136
CERIUM	535.353	Radial	27.30282	0.08458487	0.08947794	0.04912801	0.1151487
COPPER	324.754	Axial	301.2903	0.06631065	0.06610160	0.06662377	0.06620659
IRON	271.441	Radial	1077.144	50.29166	50.14321	50.55851	50.17327
LANTHANUM	333.749	Radial	32.87811	0.06762962	0.06495688	0.06907455	0.06885743
MAGNESIUM	279.079	Radial	458.7490	5.214432	5.177878	5.250497	5.214920
MANGANESE	257.610	Axial	76446.00	3.231262	3.230540	3.219225	3.244020
MOLYBDENUM	202.030	Axial	3.216390	0.003550534	0.004560933	0.001018200	0.005072468
NICKEL	231.604	Axial	84.53146	0.08335994	0.08427689	0.08302684	0.08277610
PHOSPHORUS	177.495	Axial	353.3979	1.718784	1.728146	1.711395	1.716811
POTASSIUM	766.490	Radial	193.8326	2.168182	2.160383	2.212822	2.131340
SILICON	251.611	Axial	7466.062	6.644547	6.599098	6.672938	6.661605
SODIUM	589.592	Radial	133.1928	0.3618465	0.3582559	0.3667754	0.3605083
STRONTIUM	421.552	Radial	1239.071	0.1130924	0.1134209	0.1127877	0.1130686
SULFUR	182.034	Axial	83.78277	1.451714	1.453940	1.441944	1.459259
THALLIUM	190.856	Axial	-0.8778160	-0.0003012314	0.002613919	-0.004081318	0.0005637041
TIN	189.989	Axial	-0.1322968	0.001117520	0.001160892	0.002975381	-0.0007837129
TITANIUM	334.941	Radial	184.4330	0.1079683	0.1070100	0.1074486	0.1094463
VANADIUM	292.402	Radial	69.08136	0.1119622	0.1112110	0.1139272	0.1107483
ZINC	206.200	Axial	467.6153	0.1799724	0.1809469	0.1794886	0.1794818

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-10 DF: 1x Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:51 Sequence: 134

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6686.584	6666.398	6705.040	6688.314
YTTRIUM	360.073	Axial	62304.50	62144.54	62710.00	62058.95
YTTRIUM	360.073	Radial	4812.170	4806.573	4780.347	4849.591
INDIUM	230.606	Axial	1234.553	1229.943	1236.621	1237.097

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.007942	0.01899409	0.01776149	0.01835347	0.02086731
BARIUM	233.527	Axial	4706.239	0.7532430	0.7509782	0.7548939	0.7538570
BORON	249.678	Radial	-0.1935708	-0.0001909390	0.0001118873	-0.001805426	0.001120722
CADMIUM	228.802	Axial	8.738493	-0.0002001700	0.0001305470	-0.0001723666	-0.0005586905
CHROMIUM	267.716	Axial	98.38542	0.04437396	0.04381594	0.04453913	0.04476683
COBALT	228.616	Axial	32.24212	0.03888894	0.03900659	0.03838074	0.03927948
LEAD	220.353	Axial	55.87876	0.1333500	0.1360572	0.1313757	0.1326171
LITHIUM	670.784	Radial	13.95521	0.02009641	0.02228606	0.02163348	0.01636969
SELENIUM	196.090	Axial	0.8315911	0.008256787	-0.004335783	0.01201308	0.01709307
SILVER	328.068	Axial	2.437137	0.005167528	0.005473468	0.003011403	0.007017712
ALUMINUM	308.215	Radial	1467.721	25.39591	25.46505	25.45176	25.27093
ANTIMONY	206.833	Axial	1.419770	0.007804110	0.01421532	0.001576715	0.007620296
BERYLLIUM	313.042	Radial	80.15837	0.004777684	0.004963866	0.004654351	0.004714834
CALCIUM	373.690	Radial	51733.51	519.3517	519.7337	520.0468	518.2744
CERIUM	535.353	Radial	27.45516	0.09513136	0.1202261	0.08151563	0.08365234
COPPER	324.754	Axial	278.8003	0.06568982	0.06624778	0.06401364	0.06680803
IRON	271.441	Radial	1594.227	76.63203	77.03371	76.87616	75.98622
LANTHANUM	333.749	Radial	35.43351	0.07414391	0.07533451	0.07495935	0.07213788
MAGNESIUM	279.079	Radial	1374.498	16.01544	16.08939	16.03873	15.91819
MANGANESE	257.610	Axial	104993.2	4.697911	4.688216	4.706285	4.699233
MOLYBDENUM	202.030	Axial	4.504255	0.005654788	0.007178322	0.003698639	0.006087402
NICKEL	231.604	Axial	75.49994	0.08374963	0.08588942	0.08200532	0.08335415
PHOSPHORUS	177.495	Axial	429.0446	2.210899	2.258906	2.207087	2.166703
POTASSIUM	766.490	Radial	238.1928	2.684879	2.729247	2.650419	2.674972
SILICON	251.611	Axial	6557.365	6.244210	6.240005	6.226477	6.266148
SODIUM	589.592	Radial	202.9769	0.5586484	0.5710802	0.5537064	0.5511587
STRONTIUM	421.552	Radial	13831.25	1.306570	1.297752	1.303828	1.318130
SULFUR	182.034	Axial	108.1524	2.013662	2.040637	2.034170	1.966180
THALLIUM	190.856	Axial	-1.09643	-0.001998618	0.002672977	-0.006195631	-0.002473201
TIN	189.989	Axial	0.2245696	0.001988891	0.001964741	0.001506938	0.002494994
TITANIUM	334.941	Radial	192.8651	0.1161007	0.1149725	0.1171853	0.1161444
VANADIUM	292.402	Radial	88.88049	0.1474456	0.1498973	0.1431960	0.1492434
ZINC	206.200	Axial	460.8564	0.1878421	0.1891765	0.1879371	0.1864127

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-11 DF: 1x Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 12:53 Sequence: 135

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7045.525	7043.944	7028.798	7063.831
YTTRIUM	360.073	Axial	65747.00	65656.98	65475.93	66108.09
YTTRIUM	360.073	Radial	4953.266	4951.784	4988.876	4919.138
INDIUM	230.606	Axial	1327.810	1323.713	1322.404	1337.313

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.395339	0.01491082	0.01829187	0.008883219	0.01755736
BARIUM	233.527	Axial	4525.276	0.6874984	0.6839957	0.6869293	0.6915700
BORON	249.678	Radial	3.467412	0.01668064	0.02449801	0.01638348	0.009160425
CADMIUM	228.802	Axial	12.06402	0.001026138	0.0006717910	0.001898283	0.0005083399
CHROMIUM	267.716	Axial	101.0355	0.04334408	0.04350208	0.04279070	0.04373948
COBALT	228.616	Axial	46.09490	0.04971906	0.04895184	0.05017913	0.05002620
LEAD	220.353	Axial	54.07576	0.1199804	0.1187650	0.1216935	0.1194828
LITHIUM	670.784	Radial	11.84852	0.01777414	0.01713255	0.01741991	0.01876995
SELENIUM	196.090	Axial	0.8032949	0.007531280	0.01330818	0.004109594	0.005176061
SILVER	328.068	Axial	-1.73770	0.004118792	0.004780093	0.003925135	0.003651148
ALUMINUM	308.215	Radial	1416.981	23.82406	23.88088	23.76947	23.82183
ANTIMONY	206.833	Axial	1.580442	0.008341130	0.01078652	0.001705555	0.01253131
BERYLLIUM	313.042	Radial	74.72356	0.004310109	0.004168068	0.004288576	0.004473682
CALCIUM	373.690	Radial	22837.47	222.7512	222.6018	222.5963	223.0554
CERIUM	535.353	Radial	25.91755	0.06960947	0.04094158	0.05364069	0.1142461
COPPER	324.754	Axial	335.9574	0.07465083	0.07368452	0.07413006	0.07613791
IRON	271.441	Radial	1322.407	61.75320	61.99814	61.53534	61.72612
LANTHANUM	333.749	Radial	29.37574	0.06128568	0.06152454	0.06457831	0.05775419
MAGNESIUM	279.079	Radial	741.8765	8.413627	8.456082	8.363716	8.421082
MANGANESE	257.610	Axial	90474.75	3.842137	3.826535	3.832137	3.867740
MOLYBDENUM	202.030	Axial	2.791238	0.002994229	0.003143654	0.002643081	0.003195950
NICKEL	231.604	Axial	95.51330	0.09872443	0.09853746	0.09614638	0.1014894
PHOSPHORUS	177.495	Axial	566.4047	2.771479	2.772675	2.749649	2.792112
POTASSIUM	766.490	Radial	341.6583	3.655428	3.666124	3.644181	3.655980
SILICON	251.611	Axial	11208.69	10.12050	10.06420	10.13198	10.16533
SODIUM	589.592	Radial	146.5080	0.3965055	0.3988237	0.3906420	0.4000509
STRONTIUM	421.552	Radial	3356.733	0.3075634	0.3092483	0.3063161	0.3071258
SULFUR	182.034	Axial	137.7608	2.451171	2.445950	2.435067	2.472496
THALLIUM	190.856	Axial	-0.5361998	0.001225528	-0.0003810808	0.001344652	0.002713014
TIN	189.989	Axial	0.9169210	0.003603843	0.003744025	0.003918364	0.003149139
TITANIUM	334.941	Radial	292.6740	0.1703491	0.1715094	0.1682407	0.1712971
VANADIUM	292.402	Radial	75.37444	0.1219486	0.1225692	0.1205043	0.1227723
ZINC	206.200	Axial	874.2740	0.3394151	0.3395772	0.3356532	0.3430148

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 12:54 Sequence: 136 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6590.789	6588.517	6589.186	6594.665
YTTRIUM	360.073	Axial	61919.49	61808.60	61837.68	62112.20
YTTRIUM	360.073	Radial	4656.317	4663.577	4621.311	4684.063
INDIUM	230.606	Axial	1295.680	1297.370	1297.364	1292.305

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	550.5027	9.891696	9.854880	9.958390	9.861817
ANTIMONY	206.833	Axial	71.47679	0.5026504	0.5055180	0.4962051	0.5062282
ARSENIC	189.042	Axial	201.8640	0.9927794	0.9888846	0.9886887	1.000765
BARIUM	233.527	Axial	3113.025	0.5059361	0.5057854	0.5046407	0.5073822
BERYLLIUM	313.042	Radial	3154.200	0.2015373	0.2013169	0.2021966	0.2010983
BORON	249.678	Radial	204.8230	1.003865	1.001276	1.012260	0.9980579
CADMIUM	228.802	Axial	1082.781	0.4924611	0.4881191	0.4949716	0.4942926
CALCIUM	373.690	Radial	5038.906	52.30643	52.23974	52.38130	52.29826
CHROMIUM	267.716	Axial	2338.890	0.9823762	0.9778562	0.9893618	0.9799106
COBALT	228.616	Axial	989.2826	0.9677766	0.9672293	0.9594148	0.9766856
COPPER	324.754	Axial	4437.319	1.014752	1.016013	1.009983	1.018258
IRON	259.940	Radial	2615.048	10.64646	10.60076	10.70211	10.63651
LEAD	220.353	Axial	215.1091	0.4891380	0.4869080	0.4909733	0.4895326
LITHIUM	670.784	Radial	1046.398	1.029568	1.029986	1.028677	1.030042
MAGNESIUM	279.079	Radial	855.2057	10.30997	10.33081	10.34148	10.25763
MANGANESE	257.610	Axial	22126.28	1.004925	1.006927	0.9979286	1.009919
MOLYBDENUM	202.030	Axial	175.3648	0.2539876	0.2544498	0.2531221	0.2543908
NICKEL	231.604	Axial	897.0232	0.9615726	0.9578499	0.9585919	0.9682760
PHOSPHORUS	177.495	Axial	188.7389	0.9832911	0.9654479	0.9981941	0.9862315
POTASSIUM	766.490	Radial	4732.095	50.85336	50.83687	50.85418	50.86902
SELENIUM	196.090	Axial	91.04420	0.9896901	0.9892857	0.9925930	0.9871915
SILICON	251.611	Axial	2063.599	1.970485	1.964804	1.987288	1.959363
SILVER	328.068	Axial	1969.444	0.5102882	0.5120506	0.5044395	0.5143746
SODIUM	818.326	Radial	426.0690	48.54548	48.51485	48.52198	48.59960
STRONTIUM	421.552	Radial	10459.28	1.021005	1.016984	1.025172	1.020860
SULFUR	182.034	Axial	245.5528	4.744126	4.722465	4.765809	4.744103
THALLIUM	190.856	Axial	195.4175	1.012224	0.9982660	1.021477	1.016930
TIN	189.989	Axial	201.4974	0.4946319	0.4947077	0.4935562	0.4956317
TITANIUM	334.941	Radial	1646.952	1.011099	1.009856	1.019815	1.003627
VANADIUM	292.402	Radial	597.9570	1.009900	1.008446	1.008907	1.012346
ZINC	206.200	Axial	2430.198	1.011603	1.011108	1.004014	1.019689
CERIUM	535.353	Radial	13.83901	-0.05303885	-0.1352430	-0.008576931	-0.01529658
LANTHANUM	333.749	Radial	-6.94258	-0.005183380	-0.005035017	-0.005348993	-0.005166130

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 12:56 Sequence: 137

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6516.379	6531.361	6570.819	6446.955
YTTRIUM	360.073	Axial	63430.64	64070.45	63445.19	62776.27
YTTRIUM	360.073	Radial	4667.649	4675.664	4657.267	4670.015
INDIUM	230.606	Axial	1386.743	1380.396	1406.507	1373.324

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.63642	-0.02268100	-0.02931801	-0.007189270	-0.03153573
ANTIMONY	206.833	Axial	0.8210825	0.003831444	-0.007765989	0.002677234	0.01658309
ARSENIC	189.042	Axial	0.9687131	-0.0005572760	0.002776754	-0.004707686	0.0002591043
BARIUM	233.527	Axial	-5.76465	0.0004107135	0.001046258	0.00007215892	0.0001137232
BERYLLIUM	313.042	Radial	2.440261	-0.00002685594	-0.00003705809	-0.00003267618	-0.00001083354
BORON	249.678	Radial	-0.6894188	-0.002633411	-0.003205525	-0.001181824	-0.003512883
CADMIUM	228.802	Axial	7.001633	-0.0009040939	-0.001263318	-0.0004903149	-0.0009586486
CALCIUM	317.933	Radial	12.95246	0.005340609	0.002557361	0.01089796	0.002566507
CERIUM	535.353	Radial	12.90634	-0.06431978	-0.07350717	-0.03908296	-0.08036920
CHROMIUM	267.716	Axial	-7.55829	0.0006009519	0.0006734841	0.0007526587	0.0003767128
COBALT	228.616	Axial	-6.96688	-0.0003390807	-0.001659238	0.0001800500	0.0004619461
COPPER	324.754	Axial	-0.05334319	0.002463613	0.002461619	0.002266821	0.002662397
IRON	259.940	Radial	2.252000	0.003873430	0.005034883	0.004522631	0.002062777
LANTHANUM	333.749	Radial	-0.5569985	0.007105259	0.006186034	0.007036062	0.008093680
LEAD	220.353	Axial	1.355092	0.002857462	0.002626888	0.004040904	0.001904594
LITHIUM	670.784	Radial	-5.19709	0.001818176	-0.001062791	0.0004487399	0.006068578
MAGNESIUM	279.079	Radial	-2.93121	-0.002217874	0.01284613	-0.01187961	-0.007620134
MANGANESE	257.610	Axial	-13.1412	0.00002602853	0.0001398341	0.000002945943	-0.00006469440
MOLYBDENUM	202.030	Axial	1.970728	0.002090038	0.001819378	0.003372341	0.001078396
NICKEL	231.604	Axial	1.958162	0.0006517601	0.0006566458	0.001009627	0.0002890076
PHOSPHORUS	177.495	Axial	1.253663	0.0005121889	-0.0005539094	-0.0009295280	0.003020004
POTASSIUM	766.490	Radial	-26.4219	-0.06325483	-0.07873557	-0.01978385	-0.09124507
SELENIUM	196.090	Axial	0.6345159	0.006346337	0.00004185479	0.009389735	0.009607420
SILICON	251.611	Axial	12.81835	0.002103516	-0.001025239	0.003951561	0.003384227
SILVER	328.068	Axial	-13.0700	0.001264800	0.0002174128	0.002414418	0.001162570
SODIUM	589.592	Radial	-26.4428	-0.05700228	-0.06518006	-0.06024815	-0.04557862
STRONTIUM	421.552	Radial	1.059142	-0.0005635149	-0.0004511545	-0.0004499146	-0.0007894756
SULFUR	182.034	Axial	3.598491	-0.009595375	-0.007716421	-0.02175874	0.0006890397
THALLIUM	190.856	Axial	-0.6473647	0.0007711794	-0.002199555	0.006194554	-0.001681461
TIN	189.989	Axial	-0.1612221	0.001044539	0.002393460	0.0006104057	0.0001297499
TITANIUM	334.941	Radial	-1.32977	0.0009175471	0.0003747386	0.001323555	0.001054348
VANADIUM	292.402	Radial	-1.01908	0.0008615443	0.003139229	-0.002875209	0.002320613
ZINC	206.200	Axial	3.021007	-0.0002607743	0.00006521403	-0.0007620797	-0.00008545733

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 14:33 Sequence: 190 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6586.931	6682.289	6528.949	6549.556
YTTRIUM	360.073	Axial	62366.24	63028.14	61796.18	62274.41
YTTRIUM	360.073	Radial	4675.449	4707.689	4723.347	4595.310
INDIUM	230.606	Axial	1293.320	1305.344	1283.858	1290.758

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	553.2069	9.899262	9.892598	9.909603	9.895585
ANTIMONY	206.833	Axial	71.92408	0.5061178	0.5048675	0.5080496	0.5054362
ARSENIC	189.042	Axial	201.7650	0.9930413	0.9703597	1.004811	1.003953
BARIUM	233.527	Axial	3133.558	0.5095882	0.5061100	0.5122295	0.5104251
BERYLLIUM	313.042	Radial	3175.827	0.2020864	0.2018329	0.2023324	0.2020940
BORON	249.678	Radial	205.8058	1.004579	0.9967430	1.004961	1.012032
CADMIUM	228.802	Axial	1086.264	0.4943901	0.4889721	0.4969783	0.4972199
CALCIUM	373.690	Radial	5040.632	52.11044	51.96148	52.20583	52.16402
CHROMIUM	267.716	Axial	2363.643	0.9933830	0.9831043	0.9958702	1.001175
COBALT	228.616	Axial	1005.338	0.9851784	0.9809070	0.9881078	0.9865205
COPPER	324.754	Axial	4467.436	1.014363	1.008463	1.019318	1.015308
IRON	259.940	Radial	2625.970	10.64732	10.62722	10.62942	10.68533
LEAD	220.353	Axial	217.3193	0.4950788	0.4921937	0.4967043	0.4963383
LITHIUM	670.784	Radial	1042.441	1.021477	1.026469	1.023521	1.014442
MAGNESIUM	279.079	Radial	860.7653	10.33464	10.35229	10.28016	10.37146
MANGANESE	257.610	Axial	22256.36	1.011458	1.006539	1.014024	1.013813
MOLYBDENUM	202.030	Axial	172.9350	0.2506156	0.2494764	0.2537867	0.2485836
NICKEL	231.604	Axial	897.5561	0.9639320	0.9563487	0.9694091	0.9660381
PHOSPHORUS	177.495	Axial	187.1701	0.9757060	0.9668640	0.9791898	0.9810641
POTASSIUM	766.490	Radial	4727.911	50.60265	50.38243	50.67999	50.74553
SELENIUM	196.090	Axial	90.80029	0.9877133	0.9726701	0.9853675	1.005102
SILICON	251.611	Axial	2086.584	1.978247	1.963525	1.980063	1.991153
SILVER	328.068	Axial	1992.148	0.5124768	0.5105905	0.5161821	0.5106580
SODIUM	818.326	Radial	428.3623	48.60815	48.50946	48.68868	48.62633
STRONTIUM	421.552	Radial	10540.26	1.024704	1.021569	1.025943	1.026600
SULFUR	182.034	Axial	243.7818	4.712653	4.638085	4.732679	4.767194
THALLIUM	190.856	Axial	195.2543	1.013255	1.003845	1.016156	1.019763
TIN	189.989	Axial	198.2493	0.4876045	0.4795197	0.4924231	0.4908706
TITANIUM	334.941	Radial	1655.355	1.012079	1.013793	1.008520	1.013924
VANADIUM	292.402	Radial	597.1093	1.004385	1.003349	1.002808	1.006998
ZINC	206.200	Axial	2431.089	1.012674	0.9985950	1.020687	1.018738
CERIUM	535.353	Radial	11.49533	-0.08077439	-0.1185758	-0.06841375	-0.05533363
LANTHANUM	333.749	Radial	-7.61772	-0.006399438	-0.008265126	-0.007209830	-0.003723359

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 14:35 Sequence: 191

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6509.304	6401.463	6539.413	6587.036
YTTRIUM	360.073	Axial	63287.86	62779.50	63529.30	63554.78
YTTRIUM	360.073	Radial	4702.412	4700.636	4706.040	4700.561
INDIUM	230.606	Axial	1379.422	1359.543	1386.700	1392.024

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.20592	0.003290024	0.03034266	0.01582624	-0.03629882
ANTIMONY	206.833	Axial	0.7141168	0.002934980	-0.006312853	0.005902749	0.009215045
ARSENIC	189.042	Axial	1.482598	0.002009995	0.004452735	-0.007102522	0.008679773
BARIUM	233.527	Axial	-5.69195	0.0004225761	0.0005305011	0.0001494159	0.0005878113
BERYLLIUM	313.042	Radial	3.215121	0.00002110117	0.0001668741	-0.00008077901	-0.00002279159
BORON	249.678	Radial	-0.2966926	-0.0007081159	-0.003295373	0.005844386	-0.004673361
CADMIUM	228.802	Axial	8.175672	-0.0003580255	-0.001106753	0.001025699	-0.0009930220
CALCIUM	317.933	Radial	13.92820	0.009842786	0.01700478	0.004048042	0.008475534
CERIUM	535.353	Radial	11.36858	-0.08322409	-0.1609434	0.003416636	-0.09214555
CHROMIUM	267.716	Axial	-6.83670	0.0009042565	0.001012927	0.0004077800	0.001292063
COBALT	228.616	Axial	-7.57008	-0.0009189521	-0.0006403538	-0.0005647317	-0.001551771
COPPER	324.754	Axial	-4.35989	0.001504254	0.002144065	0.001277148	0.001091549
IRON	259.940	Radial	2.007654	0.002819912	-0.0002672397	0.003480324	0.005246653
LANTHANUM	333.749	Radial	-0.5502000	0.007124715	0.01037600	0.009887714	0.001110428
LEAD	220.353	Axial	0.1403066	0.0002963807	0.002113617	-0.003585289	0.002360815
LITHIUM	670.784	Radial	-4.84086	0.002200687	0.003250315	0.001602687	0.001749060
MAGNESIUM	279.079	Radial	-2.34754	0.004999910	0.008275964	0.01025863	-0.003534863
MANGANESE	257.610	Axial	-9.33497	0.0002008737	0.0002532431	0.00009092339	0.0002584545
MOLYBDENUM	202.030	Axial	1.295412	0.001109853	0.001238748	0.001902438	0.0001883731
NICKEL	231.604	Axial	0.4154581	-0.0008811993	0.0006717616	-0.003220892	-0.00009446797
PHOSPHORUS	177.495	Axial	0.5851724	-0.003034037	-0.002316826	-0.002285781	-0.004499505
POTASSIUM	766.490	Radial	-24.2532	-0.03824256	-0.08963862	-0.02391489	-0.001174162
SELENIUM	196.090	Axial	0.1868884	0.001509220	0.01305313	-0.005237807	-0.003287659
SILICON	251.611	Axial	15.11654	0.004272974	0.004118743	0.003873090	0.004827088
SILVER	328.068	Axial	-14.5533	0.0008819587	0.0009917031	-0.00009587343	0.001750047
SODIUM	589.592	Radial	-36.9144	-0.08511738	-0.06628927	-0.08532760	-0.1037353
STRONTIUM	421.552	Radial	3.481021	-0.0003299991	-0.0005234627	-0.0005521151	0.00008558049
SULFUR	182.034	Axial	3.312504	-0.01526959	-0.01583473	-0.01009711	-0.01987692
THALLIUM	190.856	Axial	-0.8097584	-0.000002952060	-0.0006773643	-0.002688095	0.003356603
TIN	189.989	Axial	-0.3765766	0.0005397744	-0.0003867894	0.001138757	0.0008673553
TITANIUM	334.941	Radial	-3.30273	-0.0002742542	0.0002962938	-0.0004081201	-0.0007109362
VANADIUM	292.402	Radial	-0.4644389	0.001803408	0.002664067	0.002632405	0.0001137524
ZINC	206.200	Axial	6.566287	0.001238389	0.001586489	0.001123974	0.001004704

Sample ID: BLANK DF: 1x Batch: WG2473792 Units: mg/l
Analyzed: 03/21/25 14:36 Sequence: 192

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6573.318	6588.741	6561.855	6569.357
YTTRIUM	360.073	Axial	62246.53	62450.03	61972.31	62317.25
YTTRIUM	360.073	Radial	4753.040	4723.590	4781.177	4754.353
INDIUM	230.606	Axial	1311.535	1311.069	1313.571	1309.965

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.041630	-0.0002575149	0.007580408	-0.0007563992	-0.007596553
BARIUM	233.527	Axial	-5.04043	0.0005370735	0.0006253879	0.0004399919	0.0005458406
CADMIUM	228.802	Axial	7.414805	-0.0007404727	-0.001335621	-0.0004870079	-0.0003987896
CHROMIUM	267.716	Axial	-6.02839	0.001272328	0.0008870876	0.001850267	0.001079629
LEAD	220.353	Axial	1.088366	0.002431868	0.001526941	0.003304743	0.002463920
SELENIUM	196.090	Axial	0.05006139	-0.00009436515	-0.004181860	-0.005409651	0.009308416
SILVER	328.068	Axial	-19.2806	-0.0003857901	-0.0004529859	0.0003002121	-0.001004596
ALUMINUM	308.215	Radial	-5.99754	-0.02737398	-0.06380066	0.02138411	-0.03970538
ANTIMONY	206.833	Axial	0.5373437	0.001712167	0.004314939	0.002886013	-0.002064450
BERYLLIUM	313.042	Radial	3.494720	0.00003652070	0.00008649769	0.00003537379	-0.00001230938
BORON	249.678	Radial	-0.1438492	0.00006130619	0.002102717	-0.007306428	0.005387630
CALCIUM	317.933	Radial	15.17967	0.01545145	0.02365998	0.01112603	0.01156833
CERIUM	535.353	Radial	10.47237	-0.09475772	-0.06995687	-0.09619064	-0.1181257
COBALT	228.616	Axial	-7.14861	-0.0008747950	-0.0007644906	-0.0007166452	-0.001143249
COPPER	324.754	Axial	4.105960	0.003407537	0.003797847	0.004090037	0.002334728
IRON	259.940	Radial	2.580640	0.005017443	0.002029387	0.003101534	0.009921408
LANTHANUM	333.749	Radial	-0.5833598	0.007074512	0.006460097	0.006348667	0.008414772
LITHIUM	670.784	Radial	-4.93975	0.002152080	0.0009606829	0.002698825	0.002796731
MAGNESIUM	279.079	Radial	-2.55687	0.002848173	0.008663737	0.002606945	-0.002726163
MANGANESE	257.610	Axial	-8.92937	0.0002234035	0.0001343097	0.0003153727	0.0002205282
MOLYBDENUM	202.030	Axial	0.7279723	0.0002610186	0.0007428987	0.0001994440	-0.0001592868
NICKEL	231.604	Axial	2.314725	0.001146622	0.001350878	-0.0003043597	0.002393347
PHOSPHORUS	177.495	Axial	1.429322	0.001365816	0.000004780131	0.002119155	0.001973513
POTASSIUM	766.490	Radial	-22.7713	-0.02003194	-0.05156513	-0.02114376	0.01261307
SILICON	251.611	Axial	49.30442	0.03715029	0.03466400	0.03740430	0.03938256
SODIUM	818.326	Radial	1472.052	165.9771	166.7676	165.1395	166.0242
STRONTIUM	421.552	Radial	5.088904	-0.0001798667	-0.0001212053	-0.00008307923	-0.0003353158
SULFUR	182.034	Axial	3.789859	-0.006511969	-0.007395674	-0.005218742	-0.006921492
THALLIUM	190.856	Axial	-0.8136389	-0.0002134816	0.0005606157	-0.004419364	0.003218303
TIN	189.989	Axial	0.1030621	0.001662116	0.001298578	0.0008951786	0.002792591
TITANIUM	334.941	Radial	-2.66728	0.0001271577	-0.0002794013	0.0004013504	0.0002595241
VANADIUM	292.402	Radial	-3.29400	-0.002852615	-0.002116356	-0.004730300	-0.001711188
ZINC	206.200	Axial	18.69587	0.006278306	0.006458454	0.005991359	0.006385105

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2473792 Units: mg/l
Analyzed: 03/21/25 14:38 Sequence: 193

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6543.895	6569.516	6510.666	6551.504
YTTRIUM	360.073	Axial	61449.40	61334.92	61413.41	61599.89
YTTRIUM	360.073	Radial	4703.314	4730.624	4721.790	4657.529
INDIUM	230.606	Axial	1287.453	1289.254	1285.520	1287.584

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	204.8451	1.014801	1.006365	1.020374	1.017664
BARIUM	233.527	Axial	6255.353	1.022535	1.019916	1.022736	1.024953
CADMIUM	228.802	Axial	2155.895	0.9917398	0.9877277	0.9964777	0.9910141
CHROMIUM	267.716	Axial	2372.157	1.003417	1.000537	1.007027	1.002688
LEAD	220.353	Axial	429.0895	0.9819562	0.9812559	0.9820360	0.9825767
SELENIUM	196.090	Axial	89.89752	0.9842674	0.9745532	1.000929	0.9773204
SILVER	328.068	Axial	752.6616	0.1993005	0.1982377	0.2001021	0.1995617
ALUMINUM	308.215	Radial	564.6290	10.04271	10.06668	10.01300	10.04845
ANTIMONY	206.833	Axial	137.8349	0.9782653	0.9683888	0.9947645	0.9716428
BERYLLIUM	313.042	Radial	15871.34	1.004680	1.005685	1.003067	1.005289
BORON	249.678	Radial	202.8883	0.9844905	0.9842514	0.9707833	0.9984367
CALCIUM	317.933	Radial	2048.655	10.43562	10.34466	10.52565	10.43657
CERIUM	535.353	Radial	11.65477	-0.07976880	-0.06865737	-0.1246935	-0.04595549
COBALT	228.616	Axial	993.4838	0.9780255	0.9701450	0.9796601	0.9842715
COPPER	324.754	Axial	4372.247	1.007542	1.003782	1.012462	1.006381
IRON	259.940	Radial	2615.668	10.54235	10.48281	10.60896	10.53527
LANTHANUM	333.749	Radial	-13.8404	-0.01819722	-0.01689193	-0.01756633	-0.02013338
LITHIUM	670.784	Radial	1079.856	1.051740	1.052418	1.047902	1.054899
MAGNESIUM	279.079	Radial	848.5762	10.12850	10.13089	10.06945	10.18515
MANGANESE	257.610	Axial	22336.18	1.021729	1.019157	1.025289	1.020741
MOLYBDENUM	202.030	Axial	696.2388	1.018026	1.015449	1.023633	1.014996
NICKEL	231.604	Axial	899.5842	0.9704859	0.9685992	0.9737216	0.9691367
PHOSPHORUS	177.495	Axial	190.3702	0.9990275	0.9888262	1.009691	0.9985649
POTASSIUM	766.490	Radial	956.9784	10.35656	10.37681	10.28359	10.40927
SILICON	251.611	Axial	1002.903	0.9599158	0.9682674	0.9578855	0.9535946
SODIUM	818.326	Radial	1532.998	174.7172	174.6626	173.0576	176.4314
STRONTIUM	421.552	Radial	10406.71	1.005694	0.9994227	1.014263	1.003397
SULFUR	182.034	Axial	492.2294	9.661171	9.528461	9.763197	9.691854
THALLIUM	190.856	Axial	195.0319	1.016655	1.023039	1.015056	1.011870
TIN	189.989	Axial	397.7685	0.9812779	0.9801749	0.9801984	0.9834604
TITANIUM	334.941	Radial	1658.631	1.008116	0.9990139	1.006577	1.018758
VANADIUM	292.402	Radial	592.9942	0.9915837	0.9946079	0.9838309	0.9963124
ZINC	206.200	Axial	2429.568	1.018624	1.009562	1.025292	1.021017

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837138-01 DF: 1x Batch: WG2473792 Units: mg/l
Analyzed: 03/21/25 14:40 Sequence: 194

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6557.309	6540.433	6580.747	6550.747
YTTRIUM	360.073	Axial	63580.94	63043.35	64106.06	63593.40
YTTRIUM	360.073	Radial	4701.327	4681.348	4731.815	4690.818
INDIUM	230.606	Axial	1382.395	1376.817	1387.647	1382.721

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.238334	0.0007443909	-0.0006454103	-0.002196368	0.005074951
BARIUM	233.527	Axial	54.67464	0.01026315	0.009898950	0.01045701	0.01043350
CADMIUM	228.802	Axial	9.339817	0.0001554792	0.001201719	-0.00007679885	-0.0006584829
CHROMIUM	267.716	Axial	-6.94137	0.0008810186	0.001116288	0.001357638	0.0001691301
LEAD	220.353	Axial	-0.01664524	-0.00004707100	0.001370518	0.0008296410	-0.002341372
SELENIUM	196.090	Axial	0.6738847	0.006741701	0.01076291	-0.002666144	0.01212834
SILVER	328.068	Axial	-16.7128	0.0003610341	0.0008852788	-0.00004151037	0.0002393338
ALUMINUM	308.215	Radial	-4.81662	-0.007560931	-0.01018923	0.01108330	-0.02357687
ANTIMONY	206.833	Axial	1.909327	0.01145766	0.01361777	0.01469136	0.006063847
BERYLLIUM	313.042	Radial	3.053444	0.00001047795	-0.00004949473	0.0001310776	-0.00005014904
BORON	249.678	Radial	0.2026755	0.001724440	0.0003287584	-0.001409330	0.006253891
CALCIUM	317.933	Radial	87.53470	0.3871586	0.3854903	0.3903077	0.3856779
CERIUM	535.353	Radial	8.733234	-0.1135466	-0.09544870	-0.1148328	-0.1303582
COBALT	228.616	Axial	-7.07300	-0.0004561046	-0.001082668	0.0007424270	-0.001028073
COPPER	324.754	Axial	-2.59131	0.001895720	0.001036770	0.002224503	0.002425886
IRON	259.940	Radial	2.773683	0.005891746	0.002839072	0.01226496	0.002571208
LANTHANUM	333.749	Radial	-2.30615	0.003783302	0.004999588	0.002805496	0.003544821
LITHIUM	670.784	Radial	-1.89722	0.005052475	0.006005944	0.004000028	0.005151453
MAGNESIUM	279.079	Radial	7.880177	0.1267577	0.1433221	0.1188540	0.1180971
MANGANESE	257.610	Axial	91.01165	0.004781739	0.004741271	0.004746114	0.004857832
MOLYBDENUM	202.030	Axial	1.321789	0.001133210	0.001657896	0.00003665966	0.001705074
NICKEL	231.604	Axial	1.723675	0.0004263816	0.001537732	0.0004999712	-0.0007585585
PHOSPHORUS	177.495	Axial	1.176552	0.00005148362	0.001907565	0.0001441405	-0.001897255
POTASSIUM	766.490	Radial	-17.0928	0.03757335	0.04653711	0.04482502	0.02135793
SILICON	251.611	Axial	664.2047	0.6108754	0.6146159	0.6039114	0.6140988
SODIUM	589.592	Radial	375.7267	1.044195	1.052027	1.061371	1.019187
STRONTIUM	421.552	Radial	28.65845	0.002106324	0.002143107	0.001924436	0.002251430
SULFUR	182.034	Axial	8.752296	0.09168317	0.09082537	0.09113065	0.09309348
THALLIUM	190.856	Axial	-0.8676139	-0.0002632152	0.001439451	-0.0001915219	-0.002037574
TIN	189.989	Axial	-1.14481	-0.001217517	-0.001904186	0.0006182182	-0.002366584
TITANIUM	334.941	Radial	-2.43561	0.0002588921	0.003585534	-0.001495376	-0.001313481
VANADIUM	292.402	Radial	-1.14414	0.0006713157	0.002492879	0.0004562567	-0.0009351888
ZINC	206.200	Axial	9.979274	0.002645155	0.002767202	0.002715139	0.002453123

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1837138-01 Batch: WG2473792 Units: mg/l
Analyzed: 03/21/25 14:41 Sequence: 195

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6451.811	6475.383	6308.746	6571.304
YTTRIUM	360.073	Axial	63151.23	63426.60	61925.99	64101.10
YTTRIUM	360.073	Radial	4729.919	4725.275	4725.084	4739.397
INDIUM	230.606	Axial	1373.236	1378.192	1350.762	1390.755

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.8262803	-0.001228571	-0.002252777	0.000001344361	-0.001434279
BARIUM	233.527	Axial	6.475004	0.002423794	0.002779807	0.001948542	0.002543031
CADMIUM	228.802	Axial	7.232067	-0.0007627068	-0.0009450510	-0.0007072837	-0.0006357856
CHROMIUM	267.716	Axial	-11.8405	-0.001266304	-0.0007288306	-0.001923393	-0.001146689
LEAD	220.353	Axial	0.8142296	0.001736251	0.002717811	0.001619969	0.0008709743
SELENIUM	196.090	Axial	-0.2096938	-0.002970594	0.005942259	-0.006091804	-0.008762238
SILVER	328.068	Axial	-17.6809	0.00009035427	0.0002568219	0.0003976913	-0.0003834504
ALUMINUM	308.215	Radial	-4.57310	-0.002764059	-0.002323831	-0.04971425	0.04374591
ANTIMONY	206.833	Axial	-0.06379107	-0.002622222	-0.004049969	-0.007388426	0.003571727
BERYLLIUM	313.042	Radial	3.183136	0.00001764358	-0.0001184953	-0.00006722072	0.0002386468
BORON	249.678	Radial	0.3547256	0.002447925	0.003808755	0.005605323	-0.002070301
CALCIUM	317.933	Radial	29.11569	0.08681427	0.08720705	0.09366949	0.07956628
CERIUM	535.353	Radial	12.90924	-0.06627123	-0.1080729	-0.008988022	-0.08175274
COBALT	228.616	Axial	-6.96658	-0.0003925282	-0.001159374	0.0005310755	-0.0005492859
COPPER	324.754	Axial	-2.83385	0.001846116	0.002062851	0.002232203	0.001243295
IRON	259.940	Radial	1.573385	0.001032353	0.002950582	-0.0002486144	0.0003950924
LANTHANUM	333.749	Radial	-1.15592	0.005983570	0.003131847	0.007692473	0.007126391
LITHIUM	670.784	Radial	-8.37448	-0.001171792	-0.001909565	-0.0001368764	-0.001468934
MAGNESIUM	279.079	Radial	-0.9812610	0.02132090	0.01585648	0.02038310	0.02772313
MANGANESE	257.610	Axial	9.575448	0.001075899	0.001020843	0.001262428	0.0009444266
MOLYBDENUM	202.030	Axial	2.042566	0.002233050	0.001062331	0.002694109	0.002942711
NICKEL	231.604	Axial	1.526242	0.0002255005	-0.0009155032	-0.0005486496	0.002140654
PHOSPHORUS	177.495	Axial	1.355727	0.001056952	0.001292512	-0.003054548	0.004932891
POTASSIUM	766.490	Radial	-26.9393	-0.06503939	-0.04832855	-0.08373786	-0.06305177
SILICON	251.611	Axial	148.8466	0.1301484	0.1272826	0.1318635	0.1312991
SODIUM	589.592	Radial	59.14947	0.1767750	0.1568861	0.1681995	0.2052394
STRONTIUM	421.552	Radial	10.96436	0.0003877667	0.0003610599	0.0006269334	0.0001753066
SULFUR	182.034	Axial	4.497953	0.008982448	-0.0005530600	0.003260799	0.02423961
THALLIUM	190.856	Axial	-1.43723	-0.003111809	0.001049628	-0.009078504	-0.001306552
TIN	189.989	Axial	-0.04522966	0.001302309	0.002348528	0.0004255969	0.001132803
TITANIUM	334.941	Radial	-2.67051	0.0001181858	0.0003783656	-0.0007213473	0.0006975389
VANADIUM	292.402	Radial	-2.15758	-0.001000376	-0.0001295986	-0.002548399	-0.0003231293
ZINC	206.200	Axial	6.479030	0.001225642	0.0003919777	0.001732435	0.001552513

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1837138-01 Batch: WG2473792 Units: mg/l
Analyzed: 03/21/25 14:43 Sequence: 196

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6549.682	6445.840	6688.860	6514.347
YTTRIUM	360.073	Axial	62429.76	61633.92	62895.37	62759.99
YTTRIUM	360.073	Radial	4666.396	4648.885	4657.018	4693.285
INDIUM	230.606	Axial	1317.474	1301.954	1333.424	1317.044

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	200.7029	0.9935436	1.010282	0.9692561	1.001093
BARIUM	233.527	Axial	6285.940	1.026730	1.028391	1.014858	1.036941
CADMIUM	228.802	Axial	2152.187	0.9893555	1.002412	0.9696736	0.9959803
CHROMIUM	267.716	Axial	2310.744	0.9768825	0.9854211	0.9560315	0.9891948
LEAD	220.353	Axial	433.0896	0.9686031	0.9723461	0.9532686	0.9801946
SELENIUM	196.090	Axial	88.25739	0.9656155	0.9919693	0.9518240	0.9530534
SILVER	328.068	Axial	744.2015	0.1940999	0.1958303	0.1920184	0.1944511
ALUMINUM	308.215	Radial	557.9252	10.00249	10.09919	9.960259	9.948006
ANTIMONY	206.833	Axial	139.1710	0.9871109	1.002052	0.9636064	0.9956746
BERYLLIUM	313.042	Radial	15544.77	0.9917986	0.9961199	0.9905317	0.9887441
BORON	249.678	Radial	200.4708	0.9803864	0.9842597	0.9720355	0.9848640
CALCIUM	317.933	Radial	2113.611	10.85396	10.92347	10.72376	10.91465
CERIUM	535.353	Radial	16.10828	-0.02710476	-0.03213390	-0.02609107	-0.02308932
COBALT	228.616	Axial	981.9340	0.9448946	0.9446741	0.9287937	0.9612160
COPPER	324.754	Axial	4544.778	1.030823	1.033434	1.015584	1.043452
IRON	259.940	Radial	2599.961	10.56185	10.62429	10.44614	10.61512
LANTHANUM	333.749	Radial	-13.2606	-0.01728440	-0.01908758	-0.01559950	-0.01716614
LITHIUM	670.784	Radial	1024.757	1.006264	1.010199	1.003853	1.004741
MAGNESIUM	279.079	Radial	856.1116	10.29856	10.32364	10.30430	10.26774
MANGANESE	257.610	Axial	21889.06	1.000625	1.005931	0.9767985	1.019147
MOLYBDENUM	202.030	Axial	695.5735	1.016379	1.029775	0.9946118	1.024751
NICKEL	231.604	Axial	891.3645	0.9397552	0.9506677	0.9272882	0.9413097
PHOSPHORUS	177.495	Axial	185.5274	0.9728485	0.9812596	0.9437389	0.9935469
POTASSIUM	766.490	Radial	934.7604	10.19955	10.31581	10.14973	10.13310
SILICON	251.611	Axial	1603.324	1.516283	1.531923	1.500569	1.516356
SODIUM	589.592	Radial	4030.256	11.12937	11.16095	11.19742	11.02975
STRONTIUM	421.552	Radial	10461.54	1.019008	1.027301	1.009386	1.020337
SULFUR	182.034	Axial	479.6244	9.405214	9.430569	9.163143	9.621930
THALLIUM	190.856	Axial	200.6145	1.022044	1.039212	1.005328	1.021593
TIN	189.989	Axial	397.8606	0.9592530	0.9659288	0.9457269	0.9661035
TITANIUM	334.941	Radial	1649.744	1.010596	1.009472	1.014554	1.007761
VANADIUM	292.402	Radial	586.4689	0.9884329	0.9998041	0.9797268	0.9857678
ZINC	206.200	Axial	2426.498	1.016690	1.042005	0.9953198	1.012746

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1837138-01 Batch: WG2473792 Units: mg/l
Analyzed: 03/21/25 14:45 Sequence: 197

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6571.821	6597.347	6530.388	6587.726
YTTRIUM	360.073	Axial	62686.08	62687.80	62866.80	62503.65
YTTRIUM	360.073	Radial	4706.728	4700.935	4735.324	4683.924
INDIUM	230.606	Axial	1327.990	1332.096	1326.639	1325.234

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	202.3812	0.9982278	0.9971953	0.9980392	0.9994489
BARIUM	233.527	Axial	6281.772	1.022486	1.023986	1.022175	1.021296
CADMIUM	228.802	Axial	2163.391	0.9909518	0.9881024	0.9936402	0.9911128
CHROMIUM	267.716	Axial	2323.541	0.9787528	0.9792159	0.9763772	0.9806653
LEAD	220.353	Axial	433.5814	0.9619531	0.9581608	0.9633591	0.9643395
SELENIUM	196.090	Axial	88.71053	0.9670619	0.9666265	0.9572539	0.9773052
SILVER	328.068	Axial	741.3556	0.1925953	0.1929852	0.1902121	0.1945885
ALUMINUM	308.215	Radial	563.7269	10.01961	10.08088	9.985807	9.992151
ANTIMONY	206.833	Axial	139.5213	0.9860193	0.9773697	0.9914636	0.9892245
BERYLLIUM	313.042	Radial	15659.25	0.9905427	0.9932179	0.9864474	0.9919627
BORON	249.678	Radial	202.4387	0.9815634	0.9803724	0.9742909	0.9900269
CALCIUM	317.933	Radial	2131.688	10.85308	10.86625	10.85334	10.83966
CERIUM	535.353	Radial	13.53483	-0.05831525	-0.08294676	-0.05957184	-0.03242715
COBALT	228.616	Axial	982.6876	0.9381101	0.9382027	0.9354908	0.9406367
COPPER	324.754	Axial	4545.385	1.026743	1.025891	1.019988	1.034350
IRON	259.940	Radial	2647.038	10.66110	10.68028	10.65362	10.64942
LANTHANUM	333.749	Radial	-12.4431	-0.01550796	-0.01830424	-0.01484690	-0.01337274
LITHIUM	670.784	Radial	1023.753	0.9967337	0.9997201	0.9929160	0.9975651
MAGNESIUM	279.079	Radial	860.7742	10.26614	10.30522	10.19639	10.29680
MANGANESE	257.610	Axial	21870.66	0.9961836	0.9974130	0.9943852	0.9967526
MOLYBDENUM	202.030	Axial	695.3729	1.012420	1.012564	1.012049	1.012647
NICKEL	231.604	Axial	888.2839	0.9289852	0.9304410	0.9202022	0.9363123
PHOSPHORUS	177.495	Axial	184.9137	0.9659792	0.9791380	0.9482000	0.9705995
POTASSIUM	766.490	Radial	941.5668	10.18615	10.27439	10.07080	10.21326
SILICON	251.611	Axial	1615.672	1.521689	1.520026	1.498344	1.546698
SODIUM	589.592	Radial	4037.920	11.05493	11.02689	11.03233	11.10558
STRONTIUM	421.552	Radial	10511.04	1.015038	1.011719	1.020045	1.013351
SULFUR	182.034	Axial	485.0490	9.477836	9.499235	9.448218	9.486055
THALLIUM	190.856	Axial	200.7537	1.014541	1.023757	0.9950611	1.024804
TIN	189.989	Axial	398.2167	0.9524383	0.9537838	0.9451279	0.9584031
TITANIUM	334.941	Radial	1640.639	0.9964402	0.9929334	0.9931654	1.003222
VANADIUM	292.402	Radial	588.6181	0.9835495	0.9862865	0.9837888	0.9805733
ZINC	206.200	Axial	2399.231	1.001563	0.9991879	0.9943358	1.011164

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1837825-01 DF: 5x Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 14:47 Sequence: 198

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6800.301	6822.394	6797.382	6781.127
YTTRIUM	360.073	Axial	64428.12	64828.07	64523.07	63933.21
YTTRIUM	360.073	Radial	4779.447	4753.372	4766.066	4818.902
INDIUM	230.606	Axial	1354.450	1353.445	1354.862	1355.041

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	2.099478	0.004648154	0.02830055	0.008086712	0.03333504
BARIUM	233.527	Axial	988.9880	0.1567213	0.7781235	0.7857447	0.7869513
BORON	249.678	Radial	1.752851	0.009085000	0.04790135	0.02684760	0.06152604
CADMIUM	228.802	Axial	8.261825	-0.0004784376	-0.003358426	-0.00004861025	-0.003769529
CHROMIUM	267.716	Axial	10.54325	0.008076928	0.03810216	0.04028524	0.04276651
COBALT	228.616	Axial	2.489910	0.008306582	0.03805340	0.04344900	0.04309634
LEAD	220.353	Axial	24.21520	0.05266162	0.2501083	0.2663614	0.2734547
LITHIUM	670.784	Radial	-3.55021	0.003524774	0.03037190	0.02880815	-0.006308460
SELENIUM	196.090	Axial	0.2504350	0.001995225	0.009448079	0.02763633	-0.007156037
SILVER	328.068	Axial	-14.7345	0.0009024364	0.004310459	0.003521557	0.005704531
ALUMINUM	308.215	Radial	205.5638	3.647774	18.29843	18.19233	18.22584
ANTIMONY	206.833	Axial	0.8060942	0.003430022	0.01945825	-0.009999928	0.04199202
BERYLLIUM	313.042	Radial	14.96911	0.0007502572	0.003840425	0.003845981	0.003567452
CALCIUM	373.690	Radial	8863.027	89.61144	447.8748	450.3297	445.9672
CERIUM	535.353	Radial	14.21470	-0.05310478	-0.4335391	-0.1891468	-0.1738856
COPPER	324.754	Axial	90.38296	0.02228936	0.1082810	0.1188218	0.1072377
IRON	259.940	Radial	2647.653	10.50126	53.20112	51.65698	52.66081
LANTHANUM	333.749	Radial	4.585260	0.01677179	0.08617718	0.08578542	0.07961422
MAGNESIUM	279.079	Radial	528.5553	6.22097	31.32349	30.97561	31.01545
MANGANESE	257.610	Axial	17459.60	0.7686934	3.841735	3.847219	3.841447
MOLYBDENUM	202.030	Axial	2.265147	0.002390940	0.01239797	0.009110107	0.01435601
NICKEL	231.604	Axial	16.63752	0.01577428	0.07329468	0.07957016	0.08374932
PHOSPHORUS	177.495	Axial	153.5284	0.7739386	3.798608	3.861541	3.948930
POTASSIUM	766.490	Radial	62.41144	0.8693360	4.314972	4.368815	4.356253
SILICON	251.611	Axial	2509.376	2.304474	11.51696	11.58118	11.46896
SODIUM	589.592	Radial	95.99569	0.2743522	1.418666	1.338265	1.358353
STRONTIUM	421.552	Radial	1541.015	0.1459841	0.7360574	0.7262223	0.7274824
SULFUR	182.034	Axial	46.94329	0.8128750	4.043920	4.072802	4.076403
THALLIUM	190.856	Axial	-0.8793710	-0.0004101770	-0.004114840	0.01360964	-0.01564745
TIN	189.989	Axial	0.9092199	0.003541224	0.01877457	0.02455128	0.009792499
TITANIUM	334.941	Radial	45.23125	0.02873614	0.1470912	0.1400448	0.1439060
VANADIUM	292.402	Radial	6.877775	0.01385852	0.06472171	0.06429436	0.07886175
ZINC	206.200	Axial	311.0767	0.1241605	0.6064946	0.6222787	0.6336349

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 5x Ref Sample ID: L1837825-01 Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 14:48 Sequence: 199

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6718.306	6815.553	6651.427	6687.938
YTTRIUM	360.073	Axial	63390.22	64304.75	62877.48	62988.43
YTTRIUM	360.073	Radial	4796.537	4759.228	4832.230	4798.152
INDIUM	230.606	Axial	1314.653	1321.955	1313.217	1308.788

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	40.17304	0.1894670	0.9512709	0.9616666	0.9290682
BARIUM	233.527	Axial	2259.107	0.3606070	1.783750	1.816866	1.808490
BORON	249.678	Radial	39.91497	0.1905168	0.9659455	0.9275020	0.9643043
CADMIUM	228.802	Axial	432.8190	0.1906081	0.9421238	0.9602215	0.9567766
CHROMIUM	267.716	Axial	476.6274	0.1994601	0.9793480	1.008694	1.003859
COBALT	228.616	Axial	200.1005	0.1977262	0.9810111	0.9832807	1.001601
LEAD	220.353	Axial	110.5099	0.2476430	1.255943	1.243536	1.215164
LITHIUM	670.784	Radial	218.6943	0.2143710	1.071642	1.081137	1.062787
SELENIUM	196.090	Axial	14.26541	0.1515876	0.7656090	0.7942248	0.7139808
SILVER	328.068	Axial	141.9650	0.04014684	0.2024802	0.2020000	0.1977224
ALUMINUM	308.215	Radial	398.0236	6.965828	34.88659	34.72380	34.87704
ANTIMONY	206.833	Axial	24.24727	0.1659106	0.8103505	0.8340625	0.8442460
BERYLLIUM	313.042	Radial	3182.175	0.1973755	0.9874931	0.9854194	0.9877203
CALCIUM	373.690	Radial	10891.76	109.7210	546.9649	549.0869	549.7635
CERIUM	535.353	Radial	12.21052	-0.07620498	-0.2810532	-0.3490958	-0.5129258
COPPER	324.754	Axial	978.1318	0.2204394	1.100939	1.099760	1.105893
IRON	259.940	Radial	3793.822	14.99634	75.32223	74.42716	75.19568
LANTHANUM	333.749	Radial	4.045010	0.01573178	0.07557814	0.06847763	0.09192099
MAGNESIUM	279.079	Radial	866.1040	10.13675	50.94508	50.46953	50.63662
MANGANESE	257.610	Axial	24322.51	1.083702	5.389332	5.439142	5.427061
MOLYBDENUM	202.030	Axial	128.3750	0.1821907	0.9025423	0.9214167	0.9089018
NICKEL	231.604	Axial	194.2493	0.2041962	1.012167	1.022154	1.028621
PHOSPHORUS	177.495	Axial	181.1390	0.9254110	4.626641	4.581415	4.673109
POTASSIUM	766.490	Radial	259.5942	2.915324	14.65118	14.51971	14.55897
SILICON	251.611	Axial	3323.011	3.105542	15.23064	15.71501	15.63749
SODIUM	589.592	Radial	865.8498	2.338674	11.79474	11.74976	11.53560
STRONTIUM	421.552	Radial	4033.080	0.3817714	1.907240	1.897386	1.921945
SULFUR	182.034	Axial	136.5009	2.550452	12.63967	12.90057	12.71654
THALLIUM	190.856	Axial	37.23163	0.1932732	0.9586748	0.9320847	1.008338
TIN	189.989	Axial	78.23547	0.1901526	0.9481134	0.9488305	0.9553456
TITANIUM	334.941	Radial	307.3022	0.1845631	0.9316649	0.9137392	0.9230420
VANADIUM	292.402	Radial	126.3272	0.2091688	1.049667	1.052997	1.034867
ZINC	206.200	Axial	765.6667	0.3116192	1.549567	1.556250	1.568471

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 5x Ref Sample ID: L1837825-01 Batch: WG2473633 Units: mg/kg
Analyzed: 03/21/25 14:50 Sequence: 200

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6674.280	6683.937	6719.375	6619.527
YTTRIUM	360.073	Axial	63456.91	63572.46	63826.56	62971.70
YTTRIUM	360.073	Radial	4781.917	4798.473	4803.714	4743.562
INDIUM	230.606	Axial	1316.967	1320.611	1320.749	1309.540

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	40.87161	0.1941725	1.003331	0.9408992	0.9683573
BARIUM	233.527	Axial	2305.256	0.3703448	1.849331	1.842200	1.863640
BORON	249.678	Radial	39.14593	0.1874347	0.9109948	0.9321529	0.9683735
CADMIUM	228.802	Axial	432.2056	0.1916010	0.9598598	0.9542341	0.9599217
CHROMIUM	267.716	Axial	475.0682	0.2000858	1.002881	0.9924878	1.005918
COBALT	228.616	Axial	198.2797	0.1956404	0.9785931	0.9799101	0.9761032
LEAD	220.353	Axial	114.9444	0.2571468	1.278480	1.284298	1.294425
LITHIUM	670.784	Radial	216.5993	0.2130084	1.099253	1.043028	1.052846
SELENIUM	196.090	Axial	15.13287	0.1618812	0.8225732	0.8259003	0.7797444
SILVER	328.068	Axial	142.8357	0.04033580	0.2038903	0.1935124	0.2076343
ALUMINUM	308.215	Radial	411.0385	7.21262	36.25498	36.02171	35.91262
ANTIMONY	206.833	Axial	24.04636	0.1656075	0.8631138	0.7896166	0.8313815
BERYLLIUM	313.042	Radial	3158.361	0.1964940	0.9835222	0.9833511	0.9805363
CALCIUM	373.690	Radial	9963.704	100.6816	503.2347	504.6235	502.3659
CERIUM	535.353	Radial	12.54319	-0.07191574	-0.4467833	-0.4384884	-0.1934644
COPPER	324.754	Axial	989.1321	0.2226576	1.113840	1.112920	1.113104
IRON	259.940	Radial	3804.524	15.08390	75.39762	75.79552	75.06540
LANTHANUM	333.749	Radial	2.796121	0.01340926	0.06741420	0.07010580	0.06361887
MAGNESIUM	279.079	Radial	709.3679	8.333408	41.65490	41.66183	41.68439
MANGANESE	257.610	Axial	21571.30	0.9674858	4.837439	4.840283	4.834566
MOLYBDENUM	202.030	Axial	126.7960	0.1811200	0.9103399	0.9003885	0.9060721
NICKEL	231.604	Axial	193.4469	0.2029842	1.015933	1.010160	1.018670
PHOSPHORUS	177.495	Axial	181.3133	0.9324960	4.636157	4.657580	4.693704
POTASSIUM	766.490	Radial	256.6850	2.893282	14.55339	14.27615	14.56969
SILICON	251.611	Axial	3355.201	3.132114	15.63612	15.52696	15.81864
SODIUM	589.592	Radial	869.6898	2.35608	11.79587	11.76606	11.77927
STRONTIUM	421.552	Radial	3994.423	0.3792522	1.897143	1.903777	1.887863
SULFUR	182.034	Axial	138.6798	2.60998	13.09619	12.93662	13.11689
THALLIUM	190.856	Axial	37.26557	0.1931172	0.9207726	0.9794755	0.9965104
TIN	189.989	Axial	78.34560	0.1900770	0.9495247	0.9637738	0.9378563
TITANIUM	334.941	Radial	305.9720	0.1843217	0.9224294	0.9178506	0.9245452
VANADIUM	292.402	Radial	128.8224	0.2138968	1.067145	1.069257	1.072049
ZINC	206.200	Axial	783.5275	0.3210478	1.591285	1.594011	1.630421

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 14:52 Sequence: 201 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6514.975	6532.290	6575.517	6437.117
YTTRIUM	360.073	Axial	61699.78	62008.36	62326.37	60764.62
YTTRIUM	360.073	Radial	4623.999	4640.663	4634.769	4596.565
INDIUM	230.606	Axial	1283.116	1283.392	1291.347	1274.609

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	547.3045	9.902537	9.979297	9.846698	9.881617
ANTIMONY	206.833	Axial	71.28006	0.5071566	0.5141984	0.4970933	0.5101780
ARSENIC	189.042	Axial	201.9808	1.005084	0.9955669	0.9972114	1.022475
BARIUM	233.527	Axial	3117.395	0.5125419	0.5121461	0.5104047	0.5150749
BERYLLIUM	313.042	Radial	3146.984	0.2024802	0.2031889	0.2015006	0.2027512
BORON	249.678	Radial	204.6211	1.009829	1.015934	1.009060	1.004492
CADMIUM	228.802	Axial	1076.857	0.4955094	0.4940472	0.4940522	0.4984289
CALCIUM	373.690	Radial	5002.405	52.29058	52.31352	52.13527	52.42296
CHROMIUM	267.716	Axial	2333.399	0.9914771	0.9938738	0.9845166	0.9960409
COBALT	228.616	Axial	995.0781	0.9828805	0.9851073	0.9797254	0.9838088
COPPER	324.754	Axial	4434.540	1.017751	1.015737	1.016222	1.021295
IRON	259.940	Radial	2591.833	10.62562	10.65143	10.55356	10.67187
LEAD	220.353	Axial	214.7998	0.4932257	0.4906146	0.4925584	0.4965040
LITHIUM	670.784	Radial	1033.802	1.024343	1.020911	1.020899	1.031218
MAGNESIUM	279.079	Radial	854.0315	10.36744	10.37900	10.34552	10.37781
MANGANESE	257.610	Axial	22126.96	1.016656	1.016305	1.015286	1.018378
MOLYBDENUM	202.030	Axial	171.6248	0.2514770	0.2507494	0.2489621	0.2547196
NICKEL	231.604	Axial	891.0416	0.9645187	0.9628307	0.9630360	0.9676893
PHOSPHORUS	177.495	Axial	189.0139	0.9962672	1.009305	0.9870085	0.9924881
POTASSIUM	766.490	Radial	4713.604	51.00937	50.65279	50.93309	51.44221
SELENIUM	196.090	Axial	90.97236	1.000476	1.009931	0.9865829	1.004913
SILICON	251.611	Axial	2047.966	1.962577	1.965164	1.947299	1.975267
SILVER	328.068	Axial	1992.635	0.5181162	0.5143390	0.5158261	0.5241835
SODIUM	818.326	Radial	428.4957	49.17089	49.89750	48.81889	48.79628
STRONTIUM	421.552	Radial	10403.08	1.022618	1.018925	1.022339	1.026590
SULFUR	182.034	Axial	240.7031	4.704085	4.689361	4.683645	4.739248
THALLIUM	190.856	Axial	196.7365	1.028951	1.037760	1.027172	1.021920
TIN	189.989	Axial	199.0328	0.4933768	0.4897349	0.4933254	0.4970703
TITANIUM	334.941	Radial	1630.152	1.007748	1.015840	0.9984511	1.008953
VANADIUM	292.402	Radial	589.8925	1.003269	1.010338	0.9939935	1.005476
ZINC	206.200	Axial	2459.268	1.035700	1.030386	1.033065	1.043650
CERIUM	535.353	Radial	14.29699	-0.04646238	-0.07151341	-0.07466129	0.006787557
LANTHANUM	333.749	Radial	-6.36881	-0.004163958	-0.008213972	0.0002751645	-0.004553067

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 14:53 Sequence: 202

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6494.933	6475.616	6514.496	6494.687
YTTRIUM	360.073	Axial	63076.92	63128.69	63248.03	62854.03
YTTRIUM	360.073	Radial	4707.952	4738.895	4705.955	4679.006
INDIUM	230.606	Axial	1371.114	1361.474	1383.009	1368.858

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.12531	0.004718257	0.02203752	0.01100890	-0.01889165
ANTIMONY	206.833	Axial	1.133388	0.006039752	0.01086993	0.002424475	0.004824847
ARSENIC	189.042	Axial	1.487798	0.002049113	0.0003337435	0.002766024	0.003047571
BARIUM	233.527	Axial	-6.47131	0.0002927688	0.0006832312	-0.0001260339	0.0003211090
BERYLLIUM	313.042	Radial	3.413297	0.00003330678	0.00004818099	0.00002683245	0.00002490690
BORON	249.678	Radial	-0.07752670	0.0003542761	0.0005507989	0.001699672	-0.001187643
CADMIUM	228.802	Axial	9.460028	0.0002534351	0.001121882	-0.0004463929	0.00008481557
CALCIUM	317.933	Radial	14.97777	0.01512282	0.01441542	0.02003025	0.01092278
CERIUM	535.353	Radial	13.20702	-0.06228991	-0.02877554	-0.07201286	-0.08608134
CHROMIUM	267.716	Axial	-8.35169	0.0002567625	0.001400392	-0.0005629508	-0.00006715401
COBALT	228.616	Axial	-6.17622	0.0003227652	0.0006825321	-0.001147679	0.001433442
COPPER	324.754	Axial	-4.54528	0.001455892	0.00005671111	0.002916498	0.001394466
IRON	259.940	Radial	1.068528	-0.0009801775	0.0003580151	-0.000006555043	-0.003291993
LANTHANUM	333.749	Radial	-0.1527456	0.007880723	0.008087322	0.008778636	0.006776210
LEAD	220.353	Axial	0.1530014	0.0003203444	0.001441431	-0.0002972788	-0.0001831191
LITHIUM	670.784	Radial	-2.58462	0.004378913	0.006961395	0.002829014	0.003346329
MAGNESIUM	279.079	Radial	-1.80595	0.01148901	0.005600544	0.01546134	0.01340515
MANGANESE	257.610	Axial	-11.3733	0.0001056659	0.0001123588	0.0002552861	-0.00005064729
MOLYBDENUM	202.030	Axial	0.7689221	0.0003332696	-0.0009106004	0.0005308567	0.001379552
NICKEL	231.604	Axial	1.271810	-0.00002339802	-0.0007292626	0.0008296960	-0.0001706274
PHOSPHORUS	177.495	Axial	1.105258	-0.0002632611	0.002975315	-0.002866994	-0.0008981044
POTASSIUM	766.490	Radial	-22.6775	-0.02118907	-0.04001433	-0.01650610	-0.007046795
SELENIUM	196.090	Axial	-0.3503142	-0.004498764	0.004722046	-0.005812622	-0.01240572
SILICON	251.611	Axial	13.63843	0.002928575	0.006312713	0.0006041172	0.001868894
SILVER	328.068	Axial	-15.4127	0.0006530615	0.001566771	-0.0001139590	0.0005063728
SODIUM	589.592	Radial	-31.8910	-0.07131810	-0.05280666	-0.08663800	-0.07450964
STRONTIUM	421.552	Radial	5.531280	-0.0001337142	0.0002489898	-0.0003008334	-0.0003492989
SULFUR	182.034	Axial	2.992746	-0.02150707	-0.01786872	-0.01816682	-0.02848568
THALLIUM	190.856	Axial	-0.7171895	0.0004636210	0.004833163	-0.006051818	0.002609518
TIN	189.989	Axial	-0.04635159	0.001305555	0.0005574238	0.0007167643	0.002642478
TITANIUM	334.941	Radial	-3.11951	-0.0001622010	0.0002568365	-0.0004063848	-0.0003370549
VANADIUM	292.402	Radial	-3.34034	-0.002978539	-0.006751819	0.0009617283	-0.003145526
ZINC	206.200	Axial	4.570816	0.0003990728	0.001245873	-0.0005205015	0.0004718469

Sample ID: CCVLL Units: mg/l
Analyzed: 03/21/25 15:39 Sequence: 227 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	3728.745	1353.364	2464.286	7368.586
YTTRIUM	360.073	Axial	39456.70	13890.09	24491.41	79988.60
YTTRIUM	360.073	Radial	13335.91	13886.37	13954.14	12167.22
INDIUM	230.606	Axial	976.9508	360.8201	610.7911	1959.241

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.34389	0.04538487	0.03110345	0.03431951	0.07073163
ANTIMONY	206.833	Axial	-0.1356634	-0.004268520	-0.004024663	-0.005673553	-0.003107343
ARSENIC	189.042	Axial	0.7218146	0.006642061	0.02749843	-0.005829955	-0.001742293
BARIUM	233.527	Axial	-5.10856	-0.0007569466	-0.001966635	-0.0007551571	0.0004509521
BERYLLIUM	313.042	Radial	1.350395	-0.0001458194	-0.0002264750	-0.0002151543	0.000004170997
BORON	249.678	Radial	2.319895	0.005232812	-0.002027902	0.0002912496	0.01743509
CADMIUM	228.802	Axial	8.101982	0.006274181	0.01575312	0.003445494	-0.0003760743
CALCIUM	317.933	Radial	56.01071	0.04219186	0.002970825	0.02362221	0.09998255
CHROMIUM	267.716	Axial	-7.38531	-0.003689649	-0.007543997	-0.003589292	0.00006434230
COBALT	228.616	Axial	-6.47246	-0.007394036	-0.01595362	-0.008201769	0.001973280
COPPER	324.754	Axial	-14.6993	-0.006628074	-0.01587108	-0.003810682	-0.0002024620
IRON	259.940	Radial	7.046410	0.005162552	-0.001691831	0.002386244	0.01479324
LEAD	220.353	Axial	0.3512731	0.004000752	0.008742351	0.004800551	-0.001540647
LITHIUM	670.784	Radial	-4.24881	0.005481448	0.006362072	0.003602583	0.006479689
MAGNESIUM	279.079	Radial	7.003280	0.06463453	0.02942321	0.04667828	0.1178021
MANGANESE	257.610	Axial	-13.5628	-0.001073734	-0.002268757	-0.001011373	0.00005892793
MOLYBDENUM	202.030	Axial	1.481370	0.004960673	0.01184882	0.0009721964	0.002061000
NICKEL	231.604	Axial	1.710447	0.002007192	0.004591627	0.0008594858	0.0005704623
PHOSPHORUS	177.495	Axial	0.9996880	0.006383737	0.01480177	0.003515516	0.0008339257
POTASSIUM	766.490	Radial	-14.4626	0.1682519	0.1289626	0.1265614	0.2492318
SELENIUM	196.090	Axial	0.2955704	0.006247423	-0.004963797	0.02275115	0.0009549185
SILICON	251.611	Axial	12.86845	0.01277936	0.01212682	0.02063533	0.005575936
SILVER	328.068	Axial	-17.9070	-0.007427886	-0.01552733	-0.007911579	0.001155252
SODIUM	589.592	Radial	-3.89778	0.01458921	-0.01728169	-0.009768781	0.07081809
STRONTIUM	421.552	Radial	19.31017	0.00001596756	-0.0003601006	-0.0001632234	0.0005712267
SULFUR	182.034	Axial	6.565147	0.2720116	0.4911758	0.2886865	0.03617260
THALLIUM	190.856	Axial	-0.6517707	-0.001426825	-0.01187402	0.009007422	-0.001413878
TIN	189.989	Axial	-0.3608662	-0.0002237568	-0.003969137	0.003206669	0.00009119772
TITANIUM	334.941	Radial	5.331553	0.002989095	0.001321188	0.001944628	0.005701468
VANADIUM	292.402	Radial	-0.7834071	0.002187845	0.0004487230	0.002289856	0.003824957
ZINC	206.200	Axial	1.074389	-0.0005586064	0.0005657787	-0.001513305	-0.0007282935
CERIUM	535.353	Radial	8.957381	-0.1767847	-0.1879362	-0.1906299	-0.1517880
LANTHANUM	333.749	Radial	-0.3156891	0.007970382	0.008038822	0.007714512	0.008157813

Sample ID: CCVLL Units: mg/l
Analyzed: 03/21/25 15:43 Sequence: 228 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6501.370	6421.091	6468.281	6614.739
YTTRIUM	360.073	Axial	62842.21	61911.67	62400.01	64214.95
YTTRIUM	360.073	Radial	4762.200	4785.570	4807.691	4693.339
INDIUM	230.606	Axial	1344.844	1325.776	1335.416	1373.339

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.239714	0.2210680	0.2153973	0.2377298	0.2100769
ANTIMONY	206.833	Axial	2.100037	0.01285389	0.001803222	0.01555860	0.02119984
ARSENIC	189.042	Axial	3.134650	0.01033627	0.01601855	0.007700219	0.007290026
BARIUM	233.527	Axial	25.10063	0.005483050	0.005821738	0.005335711	0.005291701
BERYLLIUM	313.042	Radial	34.65639	0.001985551	0.001958082	0.001880108	0.002118463
BORON	249.678	Radial	41.72240	0.2005224	0.2010951	0.1998588	0.2006133
CADMIUM	228.802	Axial	13.12384	0.001955071	0.001973499	0.002470387	0.001421327
CALCIUM	317.933	Radial	223.7555	1.070856	1.058676	1.071752	1.082139
CHROMIUM	267.716	Axial	14.22336	0.009837807	0.01140138	0.008347619	0.009764427
COBALT	228.616	Axial	2.033600	0.007897482	0.007789168	0.008193688	0.007709589
COPPER	324.754	Axial	44.02277	0.01237227	0.01216606	0.01284850	0.01210224
IRON	259.940	Radial	28.87448	0.1097064	0.1061257	0.1141278	0.1088658
LEAD	220.353	Axial	2.362891	0.005150626	0.003366898	0.005951427	0.006133553
LITHIUM	670.784	Radial	12.71756	0.01899758	0.01679054	0.02586235	0.01433986
MAGNESIUM	279.079	Radial	87.88157	1.065564	1.042340	1.077958	1.076393
MANGANESE	257.610	Axial	202.9202	0.009966827	0.009885224	0.01008506	0.009930200
MOLYBDENUM	202.030	Axial	4.467404	0.005777753	0.005943838	0.005128508	0.006260914
NICKEL	231.604	Axial	10.12776	0.009172772	0.009407435	0.009754068	0.008356812
PHOSPHORUS	177.495	Axial	20.38180	0.1022028	0.1045519	0.1034728	0.09858377
POTASSIUM	766.490	Radial	78.02686	1.034917	1.071871	1.025370	1.007509
SELENIUM	196.090	Axial	-0.07350830	-0.001430389	0.003952382	-0.005545295	-0.002698253
SILICON	251.611	Axial	221.7295	0.1997839	0.2033640	0.1993136	0.1966740
SILVER	328.068	Axial	7.338866	0.006398924	0.005883596	0.007447718	0.005865459
SODIUM	589.592	Radial	356.2619	0.9785369	0.9934971	0.9620700	0.9800437
STRONTIUM	421.552	Radial	111.7303	0.01000388	0.009914616	0.01013342	0.009963620
SULFUR	182.034	Axial	52.83314	0.9712976	0.9810224	0.9570071	0.9758634
THALLIUM	190.856	Axial	1.690226	0.01232728	0.01163050	0.01265671	0.01269464
TIN	189.989	Axial	20.48142	0.04973523	0.05253569	0.04858258	0.04808742
TITANIUM	334.941	Radial	80.75064	0.05011256	0.05011367	0.05072909	0.04949492
VANADIUM	292.402	Radial	10.07101	0.01916895	0.01398570	0.02310893	0.02041222
ZINC	206.200	Axial	136.9361	0.05634900	0.05676264	0.05739562	0.05488874
CERIUM	535.353	Radial	9.281098	-0.1089273	-0.06733120	-0.1029316	-0.1565192
LANTHANUM	333.749	Radial	-2.22275	0.004013732	0.002093296	0.002933966	0.007013935

Sample ID: CCVLL Units: mg/l
Analyzed: 03/21/25 15:52 Sequence: 229 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6619.985	6630.118	6560.159	6669.679
YTTRIUM	360.073	Axial	64053.04	64062.56	63083.49	65013.08
YTTRIUM	360.073	Radial	4790.708	4827.417	4774.050	4770.657
INDIUM	230.606	Axial	1373.504	1374.408	1354.821	1391.284

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	6.882639	0.1967607	0.2055059	0.1998122	0.1849639
ANTIMONY	206.833	Axial	1.313349	0.007136620	0.006228387	0.006281876	0.008899598
ARSENIC	189.042	Axial	3.628505	0.01241518	0.01318474	0.005935656	0.01812514
BARIUM	233.527	Axial	25.21634	0.005425338	0.005443694	0.005377728	0.005454592
BERYLLIUM	313.042	Radial	33.59588	0.001905635	0.001926399	0.001894708	0.001895798
BORON	249.678	Radial	42.98051	0.2053369	0.2011317	0.2066345	0.2082443
CADMIUM	228.802	Axial	12.49715	0.001559242	0.0009263674	0.002462048	0.001289312
CALCIUM	317.933	Radial	224.7843	1.069250	1.061812	1.072982	1.072955
CHROMIUM	267.716	Axial	17.39132	0.01104435	0.01071710	0.01104710	0.01136885
COBALT	228.616	Axial	3.096448	0.008823406	0.008070046	0.008316797	0.01008338
COPPER	324.754	Axial	47.24768	0.01288792	0.01243278	0.01247334	0.01375764
IRON	259.940	Radial	29.43394	0.1112398	0.1135822	0.1118605	0.1082768
LEAD	220.353	Axial	2.452148	0.005269866	0.005020358	0.007904489	0.002884751
LITHIUM	670.784	Radial	13.29978	0.01950312	0.02364773	0.01752021	0.01734142
MAGNESIUM	279.079	Radial	88.61903	1.067900	1.089083	1.059783	1.054835
MANGANESE	257.610	Axial	203.2159	0.009812527	0.009937181	0.009716542	0.009783859
MOLYBDENUM	202.030	Axial	4.349010	0.005492547	0.006099519	0.005404138	0.004973985
NICKEL	231.604	Axial	10.55025	0.009372704	0.007790113	0.009980457	0.01034754
PHOSPHORUS	177.495	Axial	20.52815	0.1009768	0.1013806	0.09790687	0.1036430
POTASSIUM	766.490	Radial	73.68823	0.9850865	0.9911582	0.9359502	1.028151
SELENIUM	196.090	Axial	0.7670294	0.007672601	0.01439732	0.006766504	0.001853979
SILICON	251.611	Axial	224.0106	0.1979029	0.2003998	0.1972231	0.1960859
SILVER	328.068	Axial	7.631351	0.006428095	0.008300513	0.005054215	0.005929556
SODIUM	589.592	Radial	359.4742	0.9813940	0.9833824	0.9786506	0.9821491
STRONTIUM	421.552	Radial	111.0100	0.009872640	0.009816131	0.01007808	0.009723707
SULFUR	182.034	Axial	53.77219	0.9708338	0.9711266	0.9728893	0.9684854
THALLIUM	190.856	Axial	0.6516377	0.007109566	0.006768853	0.008127741	0.006432104
TIN	189.989	Axial	20.17216	0.04800708	0.04866538	0.04951134	0.04584452
TITANIUM	334.941	Radial	83.14711	0.05125513	0.05170496	0.05179677	0.05026364
VANADIUM	292.402	Radial	11.19230	0.02090484	0.02068682	0.02217943	0.01984826
ZINC	206.200	Axial	139.9546	0.05655446	0.05664590	0.05679570	0.05622178
CERIUM	535.353	Radial	9.795943	-0.1034767	-0.08623175	-0.1148183	-0.1093800
LANTHANUM	333.749	Radial	-0.8667922	0.006555177	0.006126065	0.005017412	0.008522055

Sample ID: ICSA Units: mg/l
Analyzed: 03/21/25 15:58 Sequence: 230 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6263.585	6338.556	6230.390	6221.807
YTTRIUM	360.073	Axial	58070.77	58834.76	57900.88	57476.67
YTTRIUM	360.073	Radial	4626.123	4689.033	4592.504	4596.832
INDIUM	230.606	Axial	1149.232	1151.966	1149.952	1145.777

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28462.97	510.7923	512.5038	510.0819	509.7912
ANTIMONY	206.833	Axial	1.039059	0.005589612	0.01250559	0.0008498014	0.003413444
ARSENIC	189.042	Axial	3.126807	0.01085256	0.01108085	0.01392018	0.007556644
BARIUM	233.527	Axial	5.064042	0.002219882	0.002228717	0.002465814	0.001965114
BERYLLIUM	313.042	Radial	13.11778	0.0006624589	0.0005711303	0.0006775514	0.0007386951
BORON	249.678	Radial	-7.42404	-0.03585051	-0.03771394	-0.03701354	-0.03282406
CADMIUM	228.802	Axial	5.112589	-0.001678091	-0.002602814	-0.001161290	-0.001270168
CALCIUM	373.690	Radial	49449.92	516.3820	517.1544	516.1507	515.8408
CERIUM	535.353	Radial	13.28826	-0.05867328	-0.03625909	-0.06374383	-0.07601693
CHROMIUM	267.716	Axial	-16.5022	-0.003467799	-0.002892243	-0.003891301	-0.003619852
COBALT	228.616	Axial	-5.71927	-0.0002812261	0.002042771	-0.0007227482	-0.002163700
COPPER	324.754	Axial	44.15034	0.01321457	0.01314940	0.01331130	0.01318301
IRON	271.441	Radial	4070.312	203.5232	203.4157	203.5324	203.6214
LANTHANUM	333.749	Radial	-2.46675	0.003394770	0.003865216	0.005637251	0.0006818437
LEAD	220.353	Axial	1.029349	0.002625142	0.003756167	0.001994467	0.002124792
LITHIUM	670.784	Radial	-5.89672	0.001072101	0.003076957	0.003913093	-0.003773747
MAGNESIUM	279.079	Radial	43618.26	527.6024	528.3163	526.8279	527.6630
MANGANESE	257.610	Axial	-168.301	-0.007410586	-0.007062609	-0.007538031	-0.007631117
MOLYBDENUM	202.030	Axial	2.407692	0.002875937	0.004068170	-0.0002849330	0.004844574
NICKEL	231.604	Axial	2.197476	0.001347976	0.002280565	0.001730773	0.00003258926
PHOSPHORUS	177.495	Axial	1.582071	0.002587286	0.001085997	0.003339925	0.003335936
POTASSIUM	766.490	Radial	-21.7256	-0.01520476	-0.02419299	-0.05482934	0.03340805
SELENIUM	196.090	Axial	-1.21960	-0.01461459	-0.01263661	-0.01301942	-0.01818772
SILICON	251.611	Axial	13.29086	0.003685884	0.003077558	0.003464148	0.004515947
SILVER	328.068	Axial	2.249950	0.005154903	0.005086450	0.005105405	0.005272855
SODIUM	589.592	Radial	-30.2098	-0.06810630	-0.07239234	-0.06890724	-0.06301933
STRONTIUM	421.552	Radial	68.04095	0.006022719	0.006047166	0.006213968	0.005807024
SULFUR	182.034	Axial	3.509232	-0.008632139	-0.006827698	-0.01412550	-0.004943220
THALLIUM	190.856	Axial	-1.74094	-0.006196374	-0.005745669	-0.007482211	-0.005361241
TIN	189.989	Axial	-0.5734053	-0.0001717014	-0.001087828	0.002318169	-0.001745445
TITANIUM	334.941	Radial	-9.74248	-0.004286111	-0.003328753	-0.004424235	-0.005105345
VANADIUM	292.402	Radial	1.931749	0.005867904	0.003866736	0.007944108	0.005792867
ZINC	206.200	Axial	29.29518	0.01131270	0.01161865	0.01153466	0.01078478

Sample ID: ICSAB Units: mg/l
Analyzed: 03/21/25 16:00 Sequence: 231 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6256.513	6200.909	6350.557	6218.074
YTTRIUM	360.073	Axial	58253.42	58406.59	58469.54	57884.14
YTTRIUM	360.073	Radial	4643.258	4649.304	4636.218	4644.251
INDIUM	230.606	Axial	1147.416	1139.175	1154.450	1148.622

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28522.96	509.9926	509.1749	511.2864	509.5164
ANTIMONY	206.833	Axial	65.57378	0.4857457	0.4967233	0.4816719	0.4788420
ARSENIC	189.042	Axial	98.28898	0.5065857	0.5073921	0.5062049	0.5061601
BARIUM	233.527	Axial	2930.050	0.5016722	0.5042393	0.4992945	0.5014827
BERYLLIUM	313.042	Radial	7891.885	0.5059382	0.5068191	0.5064899	0.5045057
BORON	249.678	Radial	199.0439	0.9782687	0.9828843	0.9793907	0.9725310
CADMIUM	228.802	Axial	2028.873	0.9761794	0.9816988	0.9655857	0.9812536
CALCIUM	373.690	Radial	49322.10	513.1524	513.2001	513.9677	512.2893
CERIUM	535.353	Radial	13.19893	-0.06015679	-0.04350693	-0.07699878	-0.05996465
CHROMIUM	267.716	Axial	1076.265	0.4781931	0.4790495	0.4738008	0.4817291
COBALT	228.616	Axial	458.0580	0.5088640	0.5127305	0.5094744	0.5043872
COPPER	324.754	Axial	2131.598	0.5193552	0.5185772	0.5207108	0.5187774
IRON	271.441	Radial	4062.766	202.3950	202.9702	201.9803	202.2344
LANTHANUM	333.749	Radial	-5.64659	-0.002720977	-0.003706744	-0.004931472	0.0004752857
LEAD	220.353	Axial	381.0528	0.9784631	0.9832687	0.9800589	0.9720617
LITHIUM	670.784	Radial	-3.44470	0.003510230	0.001484433	0.004118003	0.004928252
MAGNESIUM	279.079	Radial	43523.66	524.5210	525.6950	526.1479	521.7201
MANGANESE	257.610	Axial	10434.42	0.4995550	0.5024941	0.4985798	0.4975910
MOLYBDENUM	202.030	Axial	312.0399	0.4768171	0.4782659	0.4724227	0.4797628
NICKEL	231.604	Axial	829.1915	1.003753	1.002324	1.007041	1.001895
PHOSPHORUS	177.495	Axial	1.860509	0.004151974	0.008659107	0.001032533	0.002764283
POTASSIUM	766.490	Radial	-26.8323	-0.06919999	-0.06333285	-0.09110906	-0.05315807
SELENIUM	196.090	Axial	42.98445	0.4918897	0.4930427	0.4937018	0.4889245
SILICON	251.611	Axial	919.8088	0.9283568	0.9218242	0.9327935	0.9304528
SILVER	328.068	Axial	3439.980	0.9435174	0.9327297	0.9551681	0.9426543
SODIUM	589.592	Radial	-19.0619	-0.03694450	-0.03717246	-0.05930546	-0.01435560
STRONTIUM	421.552	Radial	69.69590	0.006160362	0.005965836	0.006240105	0.006275146
SULFUR	182.034	Axial	3.633156	-0.005977017	-0.01194375	-0.006623958	0.0006366521
THALLIUM	190.856	Axial	78.94126	0.4638389	0.4584681	0.4741664	0.4588821
TIN	189.989	Axial	175.6990	0.4870718	0.4904970	0.4820672	0.4886512
TITANIUM	334.941	Radial	797.3540	0.4917640	0.4908768	0.4958436	0.4885716
VANADIUM	292.402	Radial	290.2849	0.4929720	0.4905097	0.4906095	0.4977967
ZINC	206.200	Axial	2317.888	1.016482	1.026178	1.008042	1.015225

3051 MW ICP SS Metals Prep Benchsheet

Workgroup: WG2472738

Prep Start Date/Time: 03/20/25 07:44 **Prep End Date/Time:** 03/20/25 11:02 **Balance ID:** METBAL8 **Analyst:** AXP4121 **Carousel ID:** 6 **Microwave ID:** MJ9747
Dig. Start Date/Time: 03/20/25 10:00:50 **Pipette ID:** VU23216 **SOP:** ENV-SOP-MTJL-0217 **Method:** 3051 **Digestion Chips Lot #:** 25B02692
Pipette Tip Lot#: 24440174

Nitric Acid: 25C17478 Amt. Used: 4.50 mL Exp. Date:09/17/25 **Hydrochloric Acid:** 25C11505 Amt. Used: 1.50 mL Exp. Date:09/11/25
High Spike: 25C05705 Amt. Used: 0.50 mL Exp. Date:09/05/25 **High Spike 2:** 25C05706 Amt. Used: 0.50 mL Exp. Date:09/05/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Initial Vessel Mass (g)	Final Vessel Mass (g)	Sample Description	Review Analyst	Review Date
BLANK	0.50	50	152.56	152.54	Pellets	AXP4121	03/20/25 11:02:11
LCS	0.50	50	152.50	152.49	Pellets	AXP4121	03/20/25 11:02:11
MS(L1836966-09)	0.45	50	153.53	153.51	Soil	AXP4121	03/20/25 11:02:11
MSD(L1836966-09)	0.45	50	153.48	153.46	Soil	AXP4121	03/20/25 11:02:11
1. L1836966-07	0.47	50	152.51	152.50	Soil	AXP4121	03/20/25 11:02:11
2. L1836966-08	0.49	50	153.55	153.53	Soil	AXP4121	03/20/25 11:02:11
3. L1836966-09	0.46	50	153.59	153.57	Soil	AXP4121	03/20/25 11:02:11
4. L1836966-10	0.53	50	152.45	152.43	Soil	AXP4121	03/20/25 11:02:11
5. L1837825-01	0.47	50	152.52	152.50	Soil	AXP4121	03/20/25 11:02:11
6. L1837825-02	0.55	50	153.46	153.44	Soil	AXP4121	03/20/25 11:02:11
7. L1837825-03	0.51	50	153.49	153.47	Soil	AXP4121	03/20/25 11:02:11
8. L1837825-04	0.54	50	152.54	152.53	Soil	AXP4121	03/20/25 11:02:11
9. L1837825-05	0.49	50	153.58	153.56	Soil	AXP4121	03/20/25 11:02:11
10. L1837825-06	0.45	50	153.43	153.41	Soil	AXP4121	03/20/25 11:02:11
11. L1837825-07	0.52	50	152.52	152.51	Soil	AXP4121	03/20/25 11:02:11
12. L1837825-08	0.55	50	152.57	152.55	Soil	AXP4121	03/20/25 11:02:11
13. L1837825-09	0.51	50	152.50	152.48	Soil	AXP4121	03/20/25 11:02:11
14. L1837825-10	0.47	50	153.45	153.43	Soil	AXP4121	03/20/25 11:02:11
15. L1837825-11	0.48	50	152.47	152.45	Soil	AXP4121	03/20/25 11:02:11

Comments:
Peer Reviewed -BAR4050

Reviewed By:AXP4121 on 03/20/25 11:02:11

3051 MW ICP SS Metals Prep Benchsheet

Workgroup: WG2473633

Prep Start Date/Time: 03/21/25 09:17-09:18 **Prep End Date/Time:** 03/21/25 11:08 **Balance ID:** METBAL8 **Analyst:** AXP4121 **Carousel ID:** 3
Microwave ID: MY2714 **Dig. Start Date/Time:** 03/21/25 10:05:30 **Pipette ID:** VU23216 **SOP:** ENV-SOP-MTJL-0217 **Method:** 3051
Digestion Chips Lot #: 25B02692 **Pipette Tip Lot#:** 24440174

Nitric Acid: 25C21221 Amt. Used: 4.50 mL Exp. Date:09/21/25 **Hydrochloric Acid:** 25C11505 Amt. Used: 1.50 mL Exp. Date:09/11/25
High Spike: 25C05705 Amt. Used: 0.50 mL Exp. Date:09/05/25 **High Spike 2:** 25C05706 Amt. Used: 0.50 mL Exp. Date:09/05/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Initial Vessel Mass (g)	Final Vessel Mass (g)	Sample Description	Review Analyst	Review Date
BLANK	0.50	50	152.22	152.20	Pellets	AXP4121	03/21/25 11:08:23
LCS	0.50	50	153.75	153.74	Pellets	AXP4121	03/21/25 11:08:23
MS(L1837825-01)	0.45	50	156.79	156.77	Soil	AXP4121	03/21/25 11:08:23
MSD(L1837825-01)	0.49	50	156.83	156.81	Soil	AXP4121	03/21/25 11:08:23
1. L1837825-01	0.46	50	156.30	156.29	Soil	AXP4121	03/21/25 11:08:23
2. L1837825-02	0.47	50	155.46	155.44	Soil	AXP4121	03/21/25 11:08:23
3. L1837825-03	0.55	50	151.64	151.62	Soil	AXP4121	03/21/25 11:08:23
4. L1837825-04	0.51	50	155.37	155.35	Soil	AXP4121	03/21/25 11:08:23
5. L1837825-05	0.51	50	154.96	154.95	Soil	AXP4121	03/21/25 11:08:23
6. L1837825-06	0.55	50	152.03	152.02	Soil	AXP4121	03/21/25 11:08:23
7. L1837825-07	0.55	50	151.76	151.75	Soil	AXP4121	03/21/25 11:08:23
8. L1837825-08	0.48	50	154.40	154.38	Soil	AXP4121	03/21/25 11:08:23
9. L1837825-09	0.49	50	155.09	155.07	Soil	AXP4121	03/21/25 11:08:23
10. L1837825-10	0.53	50	155.34	155.32	Soil	AXP4121	03/21/25 11:08:23
11. L1837825-11	0.54	50	151.53	151.52	Soil	AXP4121	03/21/25 11:08:23

Comments:
reviewed by mkh4302 3/21

Reviewed By:AXP4121 on 03/21/25 11:08:23

3015 TCLP ICP Metals Prep Benchsheet

Workgroup: WG2473792

Prep Start Date/Time: 03/21/25 11:46 **Analyst:** AXP4121 **Leachate Fluid Type:** FL1 **Vessel ESC Lot ID:** LV24080204-D-5021-MT **Pipette ID:** VU23216
Carousel ID: 9 **Microwave ID:** MJ9747 **Dig. Start Date/Time:** 03/21/25 12:00:34 **Prep End Date/Time:** 03/21/25 12:51 **SOP:** ENV-SOP-MTJL-0219 **Method:** 3015
pH Lot #: N/A **Pipette Tip Lot#:** 24440174

Nitric Acid: 25C21221 Amt. Used: 4 mL Exp. Date:09/21/25 **Hydrochloric Acid:** 25C11505 Amt. Used: 1 mL Exp. Date:09/11/25
High Spike: 25C05705 Amt. Used: 0.50 mL Exp. Date:09/05/25 **High Spike 2:** 25C05706 Amt. Used: 0.50 mL Exp. Date:09/05/25

Sample Number	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK	5	50	Reagent Water/FL1	N/A	AXP4121	03/21/25 12:52:15
LCS	5	50	Reagent Water/FL1	N/A	AXP4121	03/21/25 12:52:15
MS(L1837138-01)	5	50	Colorless	N/A	AXP4121	03/21/25 12:52:15
MSD(L1837138-01)	5	50	Colorless	N/A	AXP4121	03/21/25 12:52:15
1. L1837138-01	5	50	Colorless	N/A	AXP4121	03/21/25 12:52:15

Comments:
Peer Reviewed -BAR4050

Reviewed By:AXP4121 on 03/21/25 12:52:15

TCLPEXT WetChem Benchsheet

Workgroup: WG2471409

Balance ID: METBAL1 **Analyst:** BTP3868 **Filter Analyst:** CCY4014 **Room Log Tag#:** 230334596 **LogTag Correction Factor:** 0 **TempMin Uncorrected:** 21.9
TempMin Corrected: 21.9 **TempMax Uncorrected:** 25.0 **TempMax Corrected:** 25.0 **Tumbler ID/RPM:** W-30 **Tumbler Start Time:** 03/19/25 16:00:25
Tumbler End Time: 03/20/25 08:00:27 **Prep Start Date/Time:** 03/18/25 14:52-03/19/25 11:56 **Prep End Date/Time:** 03/20/25 12:50 **Filter Lot#:** 400216-3150-T
Tongue Depressor Lot#: P00638 **Correction Factor:** -0.3 **Hotplate Uncorr. Temp:** 50 **Hot Plate Thermometer ID#:** 1120212002 **Hotplate Corr. Temp:** 49.7
Initial/Final pH: V04967/V11227 **pH Probe:** CX1-10109/CY1-16107 **SOP:** ENV-SOP-MTJL-0187 **Method:** 1311 **Timer s/n:** 230759629

TCLP Fluid #1: 25C16337 Amt. Used: 2000 mL Exp. Date:04/16/25

Sample Number	Sample Description	Percent Solid	5.0 Weight (g)	Initial Sample Wt (g)	Initial pH (su)	Adjusted pH (su)	Final pH (su)	Filtration Device	Fluid	Review Analyst	Review Date	Analysis Batch
6. L1837138-01	filter only	0.24%	na	na	na	na	na	Vacuum	1	CCY4014	03/20/25 12:50:38	WG2473792

7199 Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1837825-01	**SDG:**	L1837825
Client Sample ID:	MONTROSE_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	41.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/21/25 08:42
Dilution Factor:	5	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.49 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U	J6	2.72	7.15

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1837825-02	**SDG:**	L1837825
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	17.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 07:25
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.54 g
Total Solids (%):	78.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.483	1.27

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
650_851_I_SO

Lab Sample ID:	L1837825-03	**SDG:**	L1837825
Client Sample ID:	650_851_I_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	18.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 07:36
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.51 g
Total Solids (%):	73.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.519	1.37

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
601_T_I_SO

Lab Sample ID:	L1837825-04	**SDG:**	L1837825
Client Sample ID:	601_T_I_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	19.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 07:46
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.54 g
Total Solids (%):	71.9	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.527	1.39

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
250_651_I_SO

Lab Sample ID:	L1837825-05	**SDG:**	L1837825
Client Sample ID:	250_651_I_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	23.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 08:28
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.53 g
Total Solids (%):	74.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.512	1.35

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_I_SO

Lab Sample ID:	L1837825-06	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_DITCH_I_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	24.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 08:39
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.48 g
Total Solids (%):	71.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.530	1.40

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DRAINS_I_SO

Lab Sample ID:	L1837825-07	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_DRAINS_I_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	25.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 08:49
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.50 g
Total Solids (%):	74.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.507	1.34

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAY GROUND_I_SO

Lab Sample ID:	L1837825-08	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	26.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 09:00
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.46 g
Total Solids (%):	75.7	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.501	1.32

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_I_SO

Lab Sample ID:	L1837825-09	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_I_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	33.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 10:37
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.52 g
Total Solids (%):	72.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.525	1.39

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_I_SO

Lab Sample ID:	L1837825-10	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_TRACK_I_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	28.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 09:21
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.51 g
Total Solids (%):	71.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.532	1.40

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_I_SO

Lab Sample ID:	L1837825-11	**SDG:**	L1837825
Client Sample ID:	DAVIS_SCHOOL_DUP_I_SO	**Collected Date/Time:**	03/10/25 17:00
Lab File ID:	29.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 09:31
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.49 g
Total Solids (%):	75.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.502	1.33

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188892-1	**SDG:**	L1837825
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	10.0000.TXT	**Received Date/Time:**	
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:19
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 06:12
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.53 g
Total Solids (%):		**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188892-8	**SDG:**	L1837825
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	22.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 08:18
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.52 g
Total Solids (%):	71.9	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.527	1.39

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188892-2	**SDG:**	L1837825
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	11.0000.TXT	**Received Date/Time:**	_____
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:19
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 06:22
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.49 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	10.5		0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188892-9	**SDG:**	L1837825
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 17:00
Lab File ID:	30.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 09:42
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.45 g
Total Solids (%):	75.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.502	1.33

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188892-14	**SDG:**	L1837825
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	42.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/21/25 08:52
Dilution Factor:	5	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.54 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Hexavalent Chromium	18540-29-9	U	J6	2.72	7.15

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188892-7	**SDG:**	L1837825
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	16.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 07:15
Dilution Factor:	50	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.51 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Hexavalent Chromium	18540-29-9	U	J6	27.2	71.5

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188892-15	**SDG:**	L1837825
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	43.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/21/25 09:03
Dilution Factor:	5	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.48 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U	J6	2.72	7.15

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188892-3	**SDG:**	L1837825
Client Sample ID:	PS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	13.0000.TXT	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	IC-25	**Preparation Date/Time:**	03/20/25 00:21
Analytical Batch:	WG2472627	**Analysis Date/Time:**	03/20/25 06:43
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.49 g
Total Solids (%):	70.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	28.7		0.542	1.43

CALIBRATION VERIFICATION

SDG:	L1837825	**Calibration (begin) date/time:**	03/18/25 01:24
Instrument ID:	IC-25	**Calibration (end) date/time:**	03/18/25 02:26
Analytical Method:	7199	**Analytical Run:**	032025 SS
Concentration Units:	mg/l		

		ICV				CCV				CCV			
Sample ID:		IC-250320250550				IC-250320250757				IC-250320250952			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
HEXAVALENT CHROMIUM	0.50	0.5055673	101		0.50	0.5116138	102		0.50	0.5090703	102	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1837825	**Calibration (begin) date/time:**	03/18/25 01:24
Instrument ID:	IC-25	**Calibration (end) date/time:**	03/18/25 02:26
Analytical Method:	7199	**Analytical Run:**	032025 SS
Concentration Units:	mg/l		

		CCV				CCV				CCV			
Sample ID:		IC-250320251047				IC-250320251201				IC-250321250913			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
HEXAVALENT CHROMIUM	0.50	0.5096074	102		0.50	0.5122846	102		0.50	0.5085242	102	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1837825	**Calibration (begin) date/time:**	03/18/25 01:24
Instrument ID:	IC-25	**Calibration (end) date/time:**	03/18/25 02:26
Analytical Method:	7199	**Analytical Run:**	032025 SS

Sample ID:	**ICB Result**	**ICB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	09.0000.TXT		10.0000.TXT		21.0000.TXT		32.0000.TXT	
Analyte	mg/l		mg/kg		mg/l		mg/l	
HEXAVALENT CHROMIUM	0.0000		U		0.0000		0.0000	

SDG:	L1837825	**Calibration (begin) date/time:**	03/18/25 01:24
Instrument ID:	IC-25	**Calibration (end) date/time:**	03/18/25 02:26
Analytical Method:	7199	**Analytical Run:**	032025 SS

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	35.0000.TXT		40.0000.TXT		45.0000.TXT	
Analyte	mg/l		mg/l		mg/l	
HEXAVALENT CHROMIUM	0.0000		0.0000		0.0000	

SDG:	L1837825	**Calibration (begin) date/time:**	03/18/25 01:24
Instrument ID:	IC-25	**Calibration (end) date/time:**	03/18/25 02:26
Analytical Method:	7199	**Analytical Run:**	032125 SS

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	09.0000.TXT	
Analyte	mg/l	
HEXAVALENT CHROMIUM	0.0000	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1837825-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.:
R4188892-14
R4188892-15

MS Sample / File ID:	R4188892-14 / 42.0000.TXT	**SDG:**	L1837825
MSD Sample / File ID:	R4188892-15 / 43.0000.TXT	**Analytical Batch:**	WG2472627
OS Sample / File ID:	L1837825-01 / 41.0000.TXT	**Matrix:**	Solid
Instrument ID:	IC-25		
Analytical Method:	7199		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	28.6	U	U	U	0.000*	0.000*	5	75.0 - 125	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1837825-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4188892-7

MS Sample / File ID:	R4188892-7 / 16.0000.TXT	**SDG:**	L1837825
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2472627
OS Sample / File ID:	L1837825-01 / 12.0000.TXT	**Matrix:**	Solid
Instrument ID:	IC-25		
Analytical Method:	7199		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	916	U	U		0.000*		50	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5B-IN

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1837825-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4188892-3

PS Sample / File ID:	R4188892-3 / 13.0000.TXT	**SDG:**	L1837825
OS Sample / File ID:	L1837825-01 / 12.0000.TXT	**Analytical Batch:**	WG2472627
Instrument ID:	IC-25	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	28.6	U	28.7		100		1	85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4188892-8 / 22.0000.TXT	**SDG:**	L1837825
OS Sample / File ID:	L1837825-04 / 19.0000.TXT	**Analytical Batch:**	WG2472627
Instrument ID:	IC-25	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Hexavalent Chromium	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4188892-9 / 30.0000.TXT	**SDG:**	L1837825
OS Sample / File ID:	L1837825-11 / 29.0000.TXT	**Analytical Batch:**	WG2472627
Instrument ID:	IC-25	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Hexavalent Chromium	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1837825-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.:
R4188892-2

LCS Sample / File ID:	R4188892-2 / 11.0000.TXT	**SDG:**	L1837825
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2472627
Instrument ID:	IC-25	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Hexavalent Chromium	10.0	10.5		105		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1837825-01,02,03,04,05,06,07,08,09,10,11
Matrix: Solid
Analytical Method: 7199
Prep Method: 3060A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Hexavalent Chromium	18540-29-9			0.3790	1

ANALYSIS LOG

SDG:	L1837825	**Analytical Method:**	7199
Instrument ID:	IC-25	**Calibration Start Date:**	03/18/25 01:24
Analytical Run:	032025 SS	**Calibration End Date:**	03/18/25 02:26

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	CAL 1	01.0000.TXT	03/18/25 01:24		
CAL	CAL 2	02.0000.TXT	03/18/25 01:34		
CAL	CAL 3	03.0000.TXT	03/18/25 01:44		
CAL	CAL 4	04.0000.TXT	03/18/25 01:55		
CAL	CAL 5	05.0000.TXT	03/18/25 02:05		
CAL	CAL 6	06.0000.TXT	03/18/25 02:16		
CAL	CAL 7	07.0000.TXT	03/18/25 02:26		
ICV	IC-250320250550	08.0000.TXT	03/20/25 05:50		
ICB	IC-250320250600	09.0000.TXT	03/20/25 06:00		
BLANK	R4188892-1	10.0000.TXT	03/20/25 06:12	1	WG2472627
LCS	R4188892-2	11.0000.TXT	03/20/25 06:22	1	WG2472627
MONTROSE_SCHOOL_DITCH_I_SO	L1837825-01	12.0000.TXT	03/20/25 06:33	1	WG2472627
PS	R4188892-3	13.0000.TXT	03/20/25 06:43	1	WG2472627
MS	R4188892-4	14.0000.TXT	03/20/25 06:54	1	WG2472627
MSD	R4188892-5	15.0000.TXT	03/20/25 07:04	1	WG2472627
MS	R4188892-7	16.0000.TXT	03/20/25 07:15	50	WG2472627
MONTROSE_SCHOOL_DRAINS_I_SO	L1837825-02	17.0000.TXT	03/20/25 07:25	1	WG2472627
650_851_I_SO	L1837825-03	18.0000.TXT	03/20/25 07:36	1	WG2472627
601_T_I_SO	L1837825-04	19.0000.TXT	03/20/25 07:46	1	WG2472627
CCV	IC-250320250757	20.0000.TXT	03/20/25 07:57		
CCB	IC-250320250807	21.0000.TXT	03/20/25 08:07		
DUP	R4188892-8	22.0000.TXT	03/20/25 08:18	1	WG2472627
250_651_I_SO	L1837825-05	23.0000.TXT	03/20/25 08:28	1	WG2472627
DAVIS_SCHOOL_DITCH_I_SO	L1837825-06	24.0000.TXT	03/20/25 08:39	1	WG2472627
DAVIS_SCHOOL_DRAINS_I_SO	L1837825-07	25.0000.TXT	03/20/25 08:49	1	WG2472627
DAVIS_SCHOOL_FRONT_PLAYGROUND_I_SO	L1837825-08	26.0000.TXT	03/20/25 09:00	1	WG2472627
DAVIS_SCHOOL_TRACK_I_SO	L1837825-10	28.0000.TXT	03/20/25 09:21	1	WG2472627
DAVIS_SCHOOL_DUP_I_SO	L1837825-11	29.0000.TXT	03/20/25 09:31	1	WG2472627
DUP	R4188892-9	30.0000.TXT	03/20/25 09:42	1	WG2472627
CCV	IC-250320250952	31.0000.TXT	03/20/25 09:52		
CCB	IC-250320251003	32.0000.TXT	03/20/25 10:03		
DAVIS_SCHOOL_WPLAYGROUND_I_SO	L1837825-09	33.0000.TXT	03/20/25 10:37	1	WG2472627
CCV	IC-250320251047	34.0000.TXT	03/20/25 10:47		
CCB	IC-250320251057	35.0000.TXT	03/20/25 10:57		
CCV	IC-250320251201	39.0000.TXT	03/20/25 12:01		
CCB	IC-250320251211	40.0000.TXT	03/20/25 12:11		
MONTROSE_SCHOOL_DITCH_I_SO	L1837825-01	41.0000.TXT	03/21/25 08:42	5	WG2472627
MS	R4188892-14	42.0000.TXT	03/21/25 08:52	5	WG2472627
MSD	R4188892-15	43.0000.TXT	03/21/25 09:03	5	WG2472627
CCV	IC-250321250913	44.0000.TXT	03/21/25 09:13		
CCB	IC-250321250924	45.0000.TXT	03/21/25 09:24		

ANALYSIS LOG

SDG:	L1837825	**Analytical Method:**	7199
Instrument ID:	IC-25	**Calibration Start Date:**	_____
Analytical Run:	032125 SS	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICB	IC-250321251001	09.0000.TXT	03/21/25 10:01		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1837825	**Calibration (begin) date/time:**	03/18/25 01:24
Instrument ID:	IC-25	**Calibration (end) date/time:**	03/18/25 02:26
Analytical Method:	7199	**Analytical Run:**	032025 SS

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.01	.01106376	111	0.05	.04498001	90
File ID:		02.0000.TXT			03.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1837825	**Calibration (begin) date/time:**	03/18/25 01:24
Instrument ID:	IC-25	**Calibration (end) date/time:**	03/18/25 02:26
Analytical Method:	7199	**Analytical Run:**	032025 SS

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.10	.09929096	99.30	0.25	.24987506	100
File ID:		04.0000.TXT			05.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1837825	**Calibration (begin) date/time:**	03/18/25 01:24
Instrument ID:	IC-25	**Calibration (end) date/time:**	03/18/25 02:26
Analytical Method:	7199	**Analytical Run:**	032025 SS

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.50	.49682373	99.40	1	1.00796649	101
File ID:		06.0000.TXT			07.0000.TXT	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1837825	**Calibration (begin) date/time:**	03/18/25 01:24
Instrument ID:	IC-25	**Calibration (end) date/time:**	03/18/25 02:26
Analytical Method:	7199	**Analytical Run:**	032025 SS

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
HEXAVALENT CHROMIUM	5	1	0.99979			105.825	0.122	6.185

Calibration Type

5 = Weighted Linear Regression

Weightage

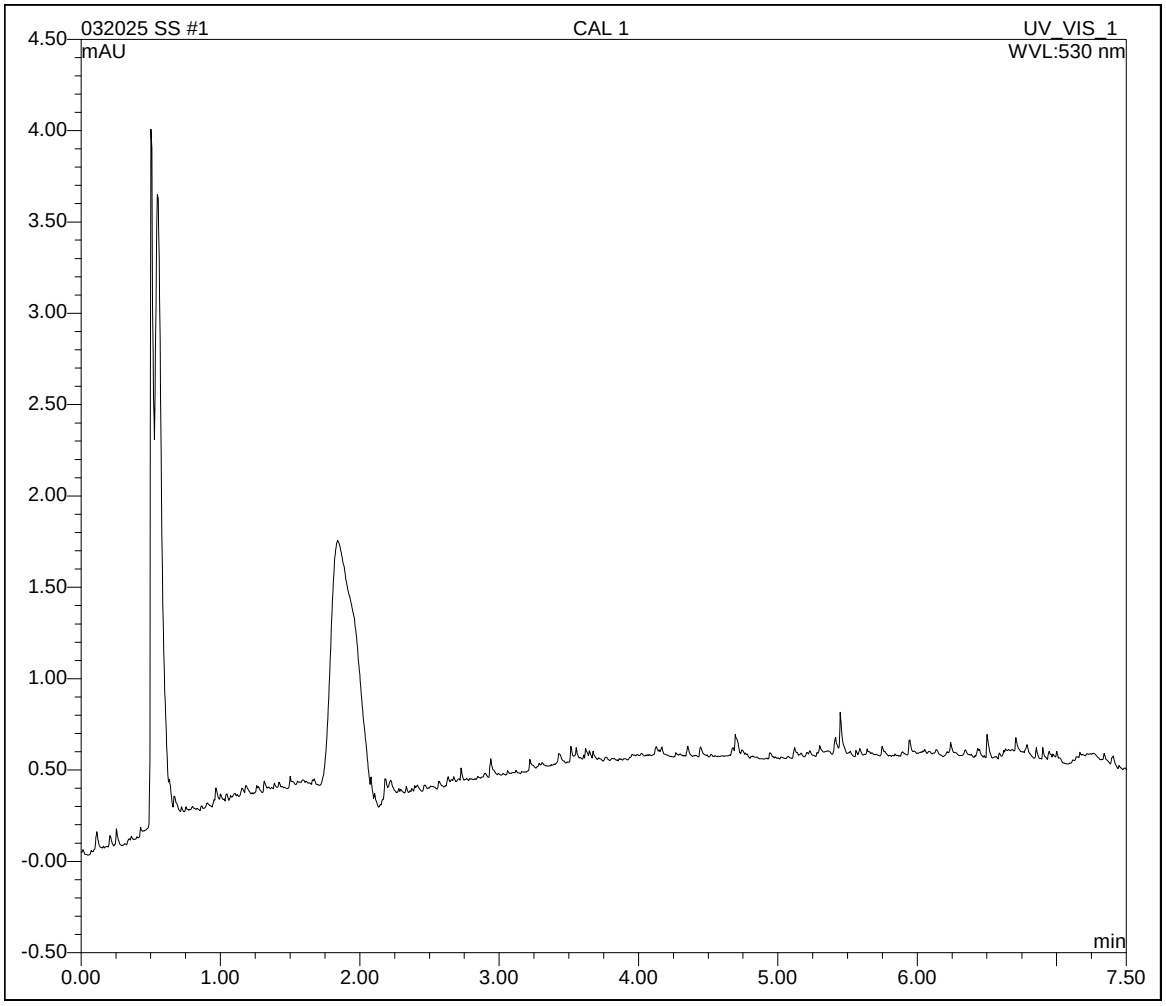
1 = Inverse Concentration

Location:	WETLABIC25\2_Data\2023\New Folder	Created:	3/20/2025 05:23
#Samples:	35	Last Update:	3/20/2025 11:02

No.	Name	Pos.	Dil.Fac.	Inj. Date/Time	Comment
1	CAL 1	1	1.00	3/18/2025 01:24	
2	CAL 2	2	1.00	3/18/2025 01:34	NI: VS117 032025
3	CAL 3	3	1.00	3/18/2025 01:44	NI: VS117 032025
4	CAL 4	4	1.00	3/18/2025 01:55	NI: VS117 032025
5	CAL 5	5	1.00	3/18/2025 02:05	NI: VS117 032025
6	CAL 6	6	1.00	3/18/2025 02:16	NI: VS117 032025
7	CAL 7	7	1.00	3/18/2025 02:26	NI: VS117 032025
8	ICV	2	1.00	3/20/2025 05:50	NI: VS117 032025
9	ICB	3	1.00	3/20/2025 06:00	
10	BLANK WG2472627	2	1.00	3/20/2025 06:12	NI: EKB4186 032025
11	LCS WG2472627	3	1.00	3/20/2025 06:22	NI: EKB4186 032025
12	L1837825-01 WG2472627	4	1.00	3/20/2025 06:33	NI: EKB4186 032025
13	PS WG2472627 L1837825-01	5	1.00	3/20/2025 06:43	NI: EKB4186 032025
14	MS WG2472627 L1837825-01	6	1.00	3/20/2025 06:54	NI: EKB4186 032025
15	MSD WG2472627 L1837825-01	7	1.00	3/20/2025 07:04	NI: EKB4186 032025
16	IMS WG2472627 L1837825-01	8	50.00	3/20/2025 07:15	NI: EKB4186 032025
17	L1837825-02 WG2472627	9	1.00	3/20/2025 07:25	NI: EKB4186 032025
18	L1837825-03 WG2472627	10	1.00	3/20/2025 07:36	NI: EKB4186 032025
19	L1837825-04 WG2472627	11	1.00	3/20/2025 07:46	NI: EKB4186 032025
20	CCV	12	1.00	3/20/2025 07:57	NI: EKB4186 032025
21	CCB	13	1.00	3/20/2025 08:07	
22	DUP WG2472627 L1837825-04	14	1.00	3/20/2025 08:18	NI: EKB4186 032025
23	L1837825-05 WG2472627	15	1.00	3/20/2025 08:28	NI: EKB4186 032025
24	L1837825-06 WG2472627	16	1.00	3/20/2025 08:39	NI: EKB4186 032025
25	L1837825-07 WG2472627	17	1.00	3/20/2025 08:49	NI: EKB4186 032025
26	L1837825-08 WG2472627	18	1.00	3/20/2025 09:00	NI: EKB4186 032025
27	L1837825-09 WG2472627	19	1.00	3/20/2025 09:10	NI: EKB4186 032025
28	L1837825-10 WG2472627	20	1.00	3/20/2025 09:21	NI: EKB4186 032025
29	L1837825-11 WG2472627	21	1.00	3/20/2025 09:31	NI: EKB4186 032025
30	DUP WG2472627 L1837825-11	22	1.00	3/20/2025 09:42	WP: EKB486 032025
31	CCV	23	1.00	3/20/2025 09:52	NI: EKB4186 032025
32	CCB	24	1.00	3/20/2025 10:03	
33	L1837825-09 WG2472627	25	1.00	3/20/2025 10:37	NI: EKB4186 032025
34	CCV	26	1.00	3/20/2025 10:47	NI: EKB4186 032025

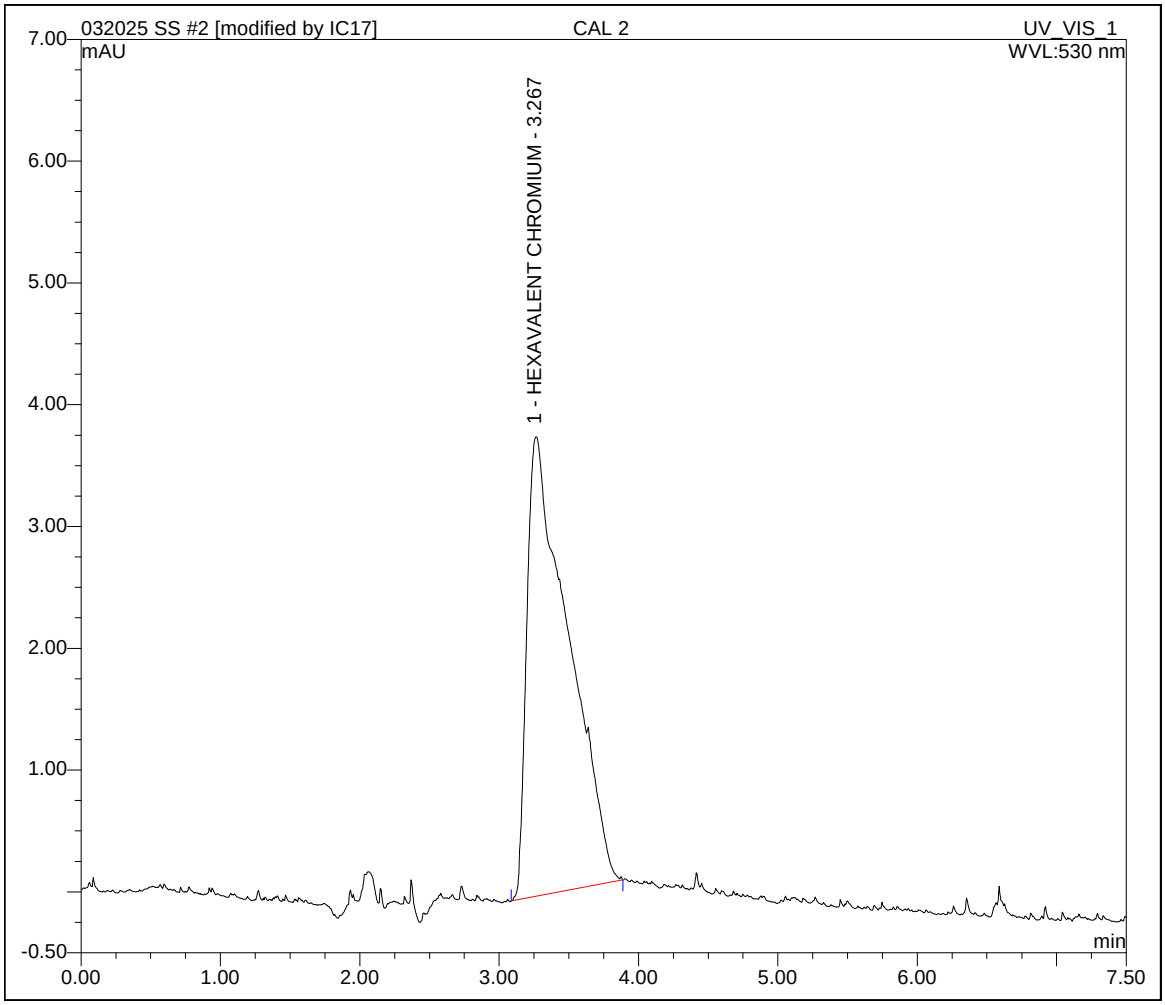
Sample Name:	**CAL 1**	*Inj. Vol.:*	**1000.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/18/25 01:24**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



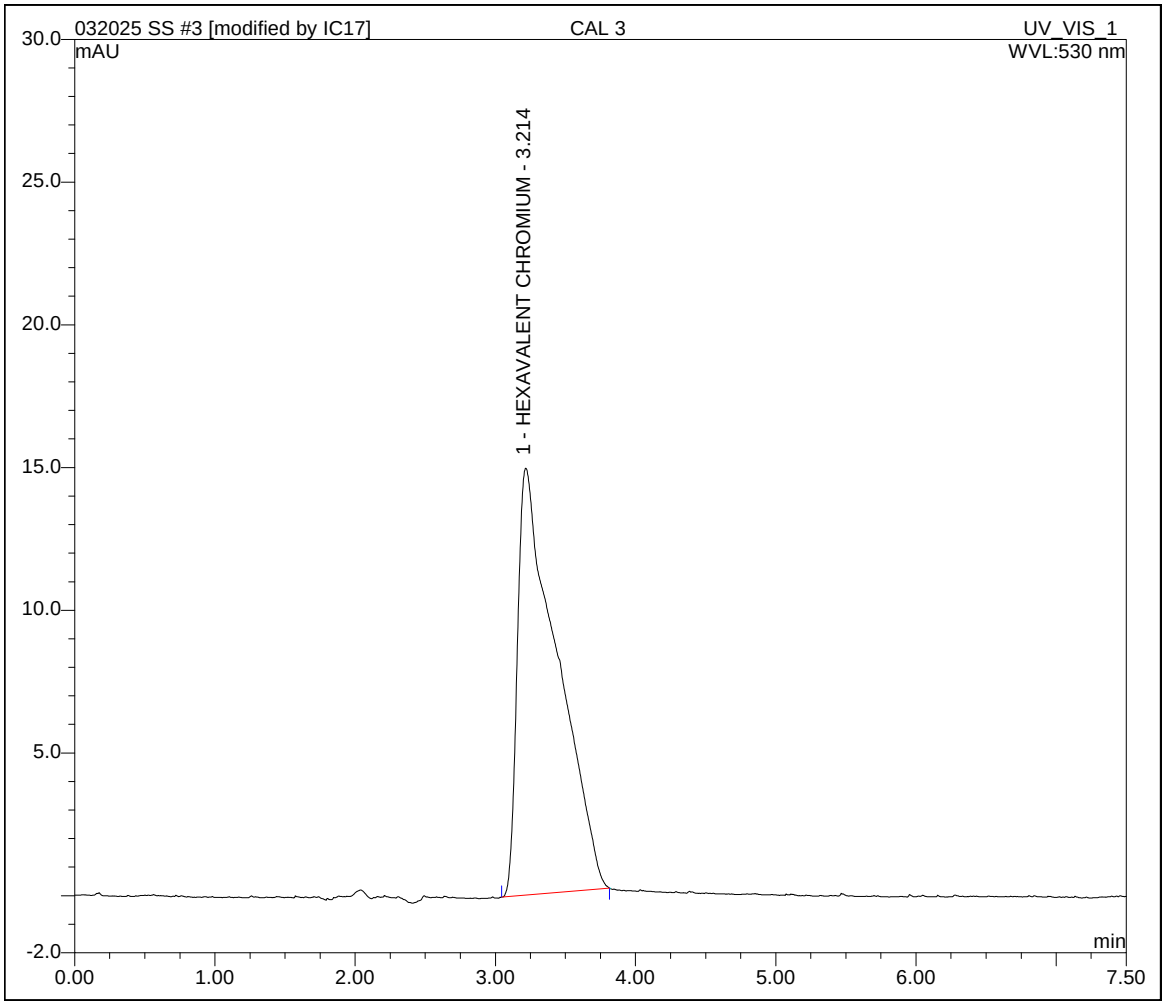
Sample Name:	**CAL 2**	*Inj. Vol.:*	**1000.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: VS117 032025**
Inj. Date/Time:	**03/18/25 01:34**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.27	HEXAVALENT CHROMIUM	BMB*	1.293	3.771	0.0111
		TOTAL:		1.29	3.77	0.01



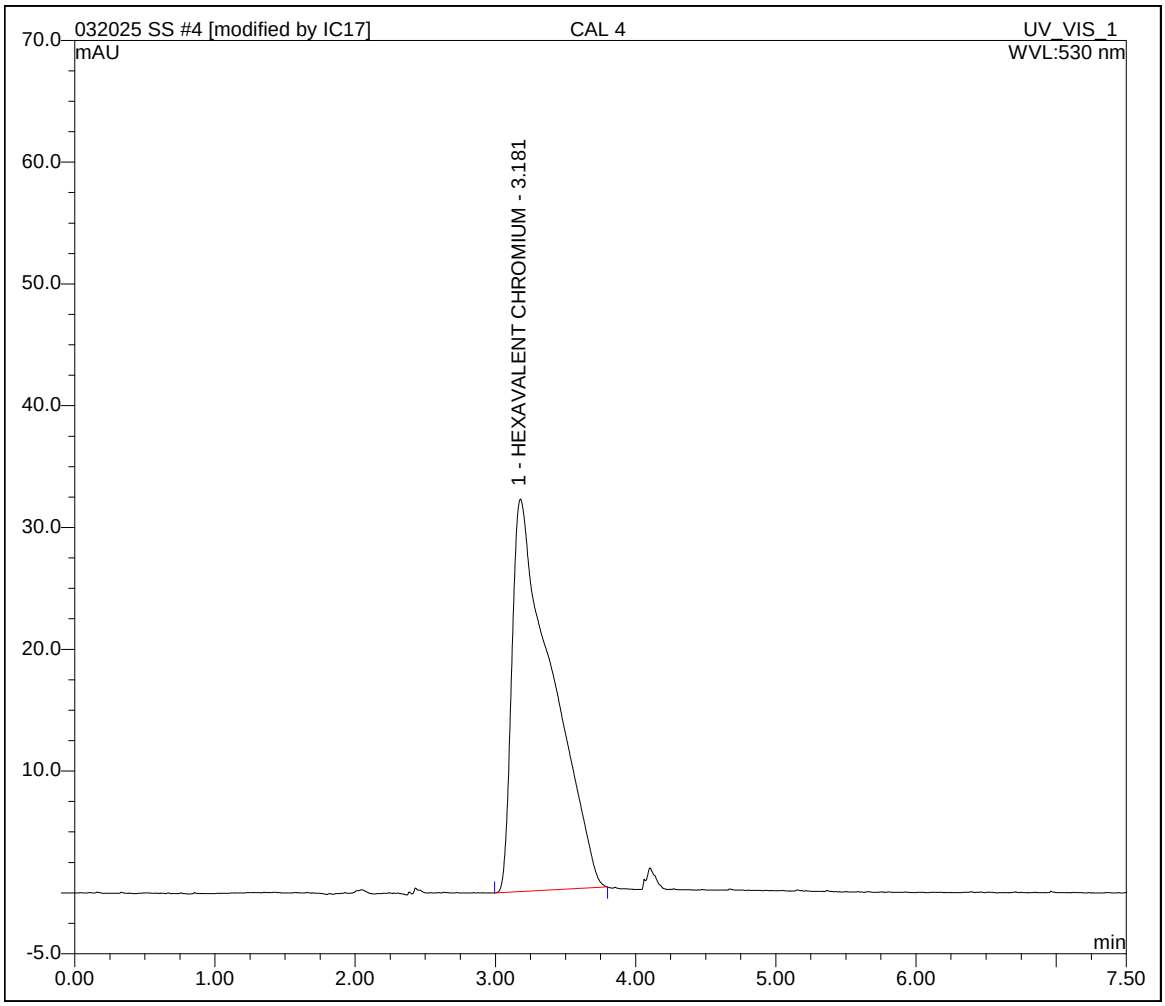
Sample Name:	**CAL 3**	*Inj. Vol.:*	**1000.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: VS117 032025**
Inj. Date/Time:	**03/18/25 01:44**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.21	HEXAVALENT CHROMIUM	BMB*	4.882	14.959	0.0450
		TOTAL:		4.88	14.96	0.04



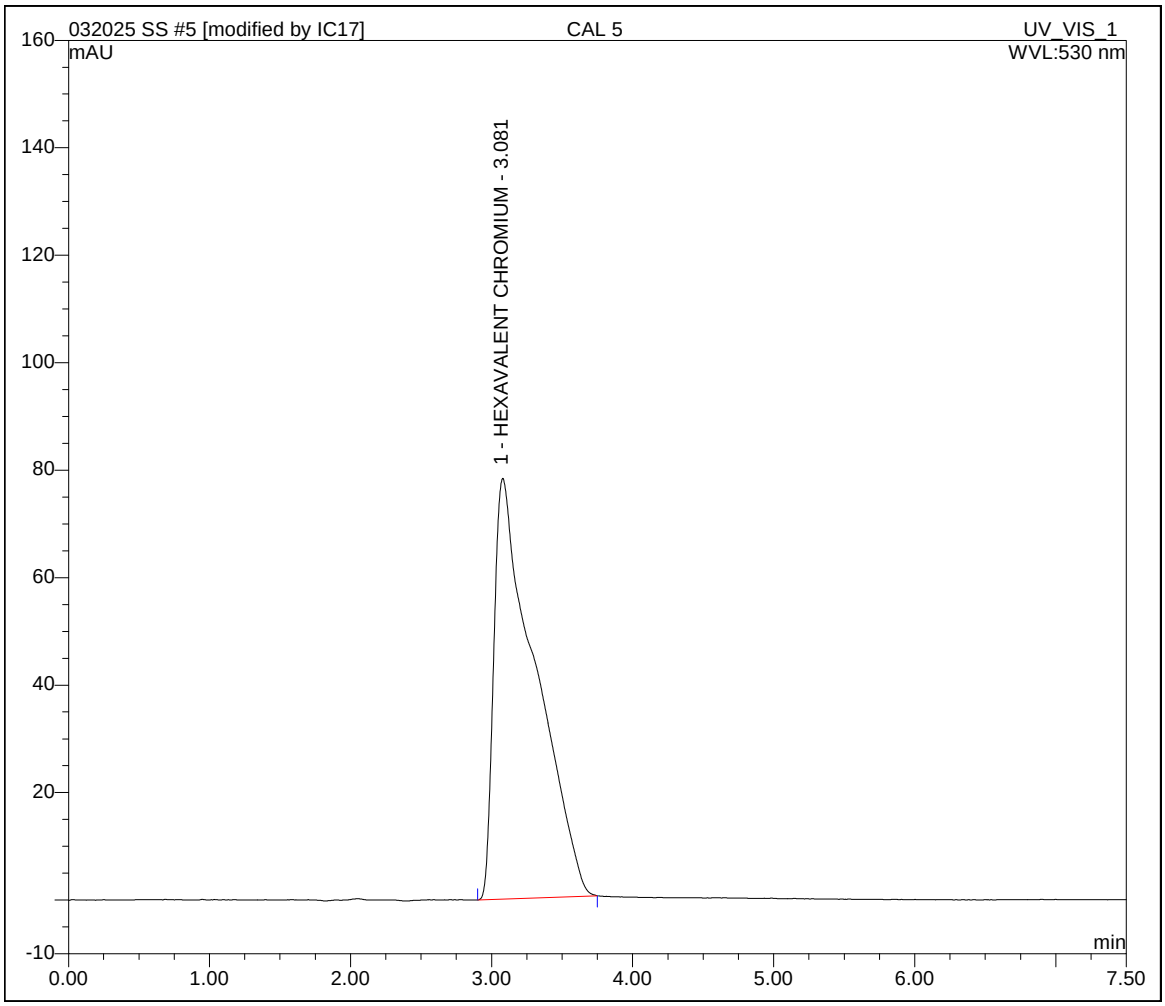
Sample Name:	**CAL 4**	*Inj. Vol.:*	**1000.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: VS117 032025**
Inj. Date/Time:	**03/18/25 01:55**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.18	HEXAVALENT CHROMIUM	BMB*	10.630	32.234	0.0993
		TOTAL:		10.63	32.23	0.10



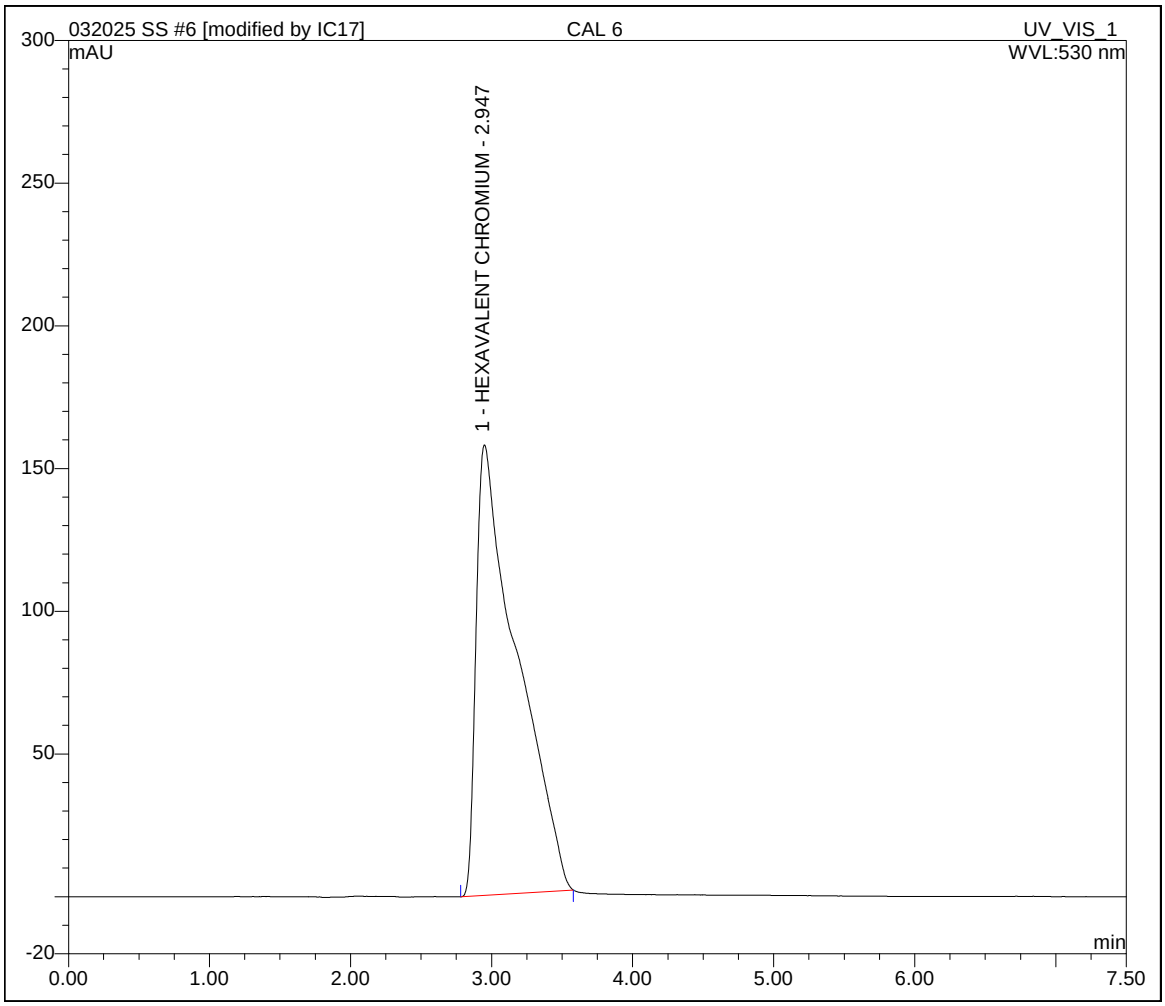
Sample Name:	**CAL 5**	*Inj. Vol.:*	**1000.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: VS117 032025**
Inj. Date/Time:	**03/18/25 02:05**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.08	HEXAVALENT CHROMIUM	BMB*	26.565	78.301	0.2499
		TOTAL:		26.57	78.30	0.25



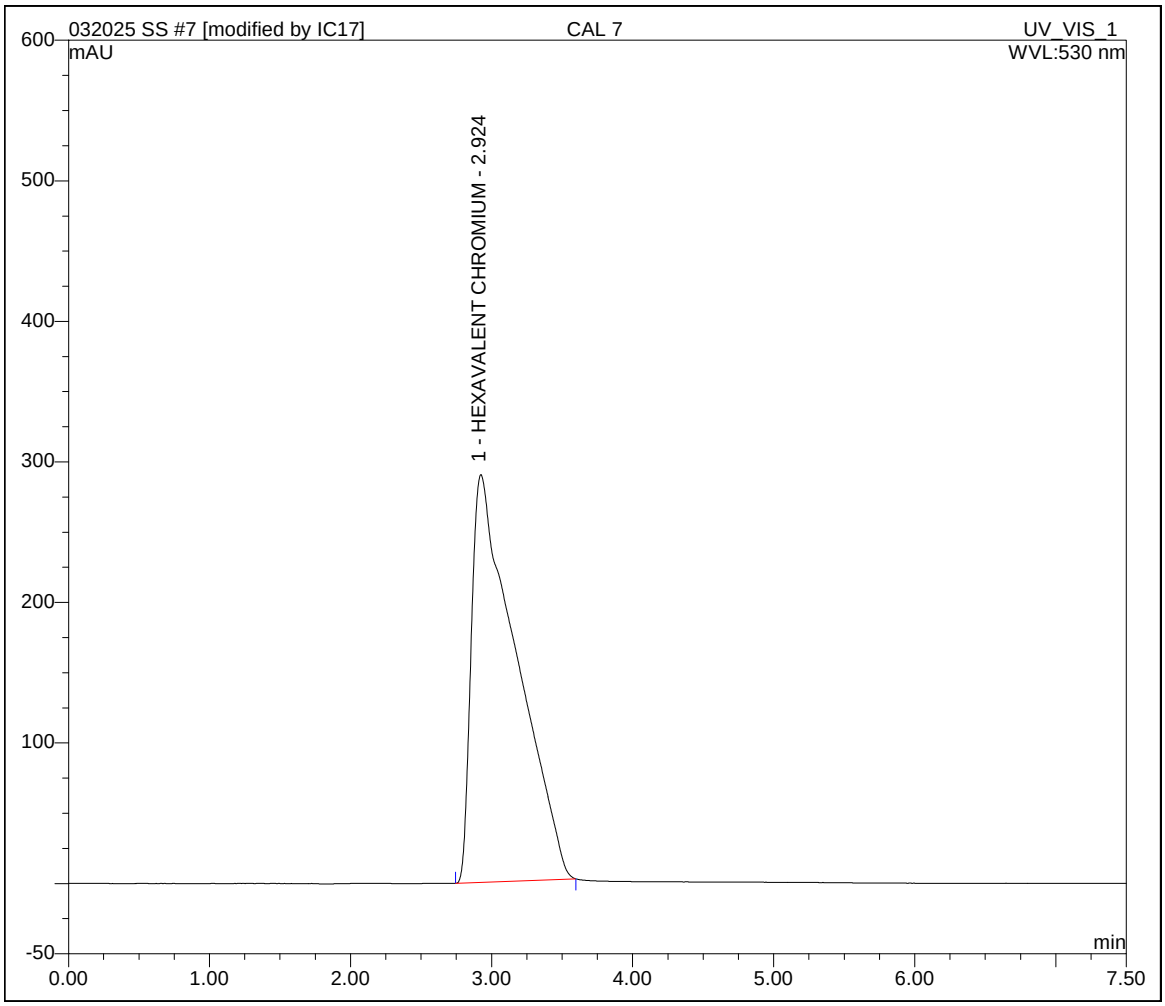
Sample Name:	**CAL 6**	*Inj. Vol.:*	**1000.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: VS117 032025**
Inj. Date/Time:	**03/18/25 02:16**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	2.95	HEXAVALENT CHROMIUM	BMB*	52.699	157.792	0.4968
		TOTAL:		52.70	157.79	0.50



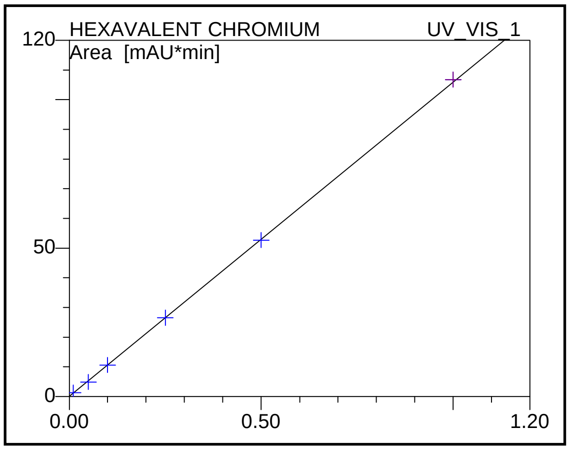
Sample Name:	**CAL 7**	*Inj. Vol.:*	**1000.0**
Sample Type:	**standard**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: VS117 032025**
Inj. Date/Time:	**03/18/25 02:26**	*Run Time:*	**7.50**

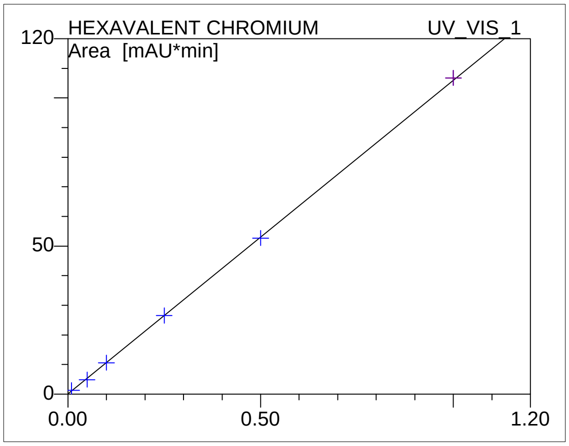
No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	2.92	HEXAVALENT CHROMIUM	BMB*	106.790	290.084	1.0080
		TOTAL:		106.79	290.08	1.01

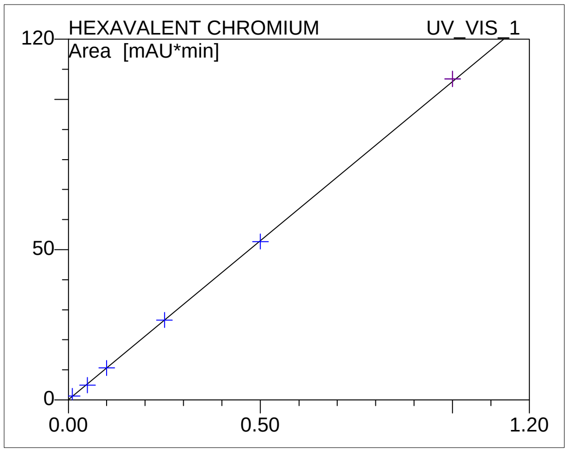


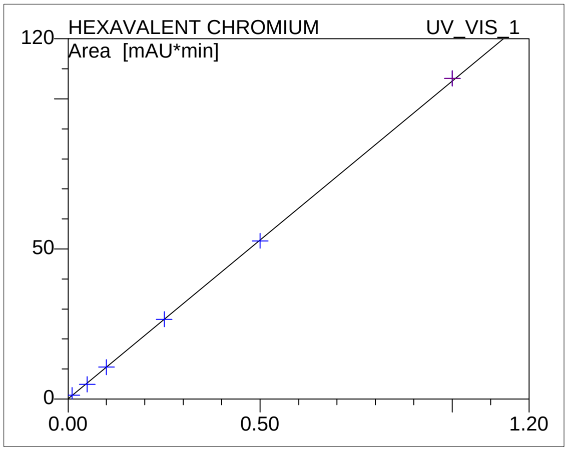
Calibration Batch Report

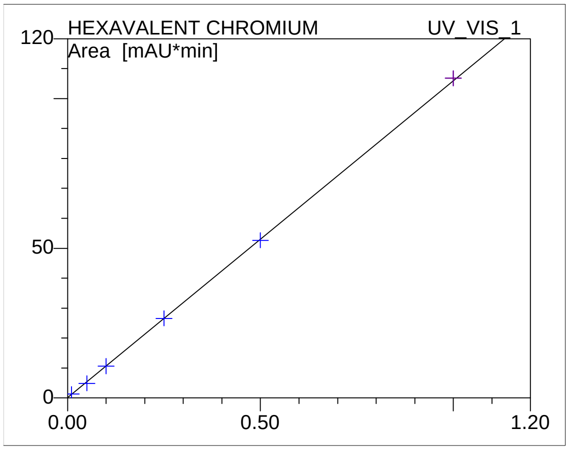
Sequence:	**032025 SS**	Inj. Vol.:	**1000.0**
Program:	**CR6IC**	Operator:	**WETLABIC17**
Inj. Date/Time:	**03/18/25 02:26**	Run Time:	**7.50**

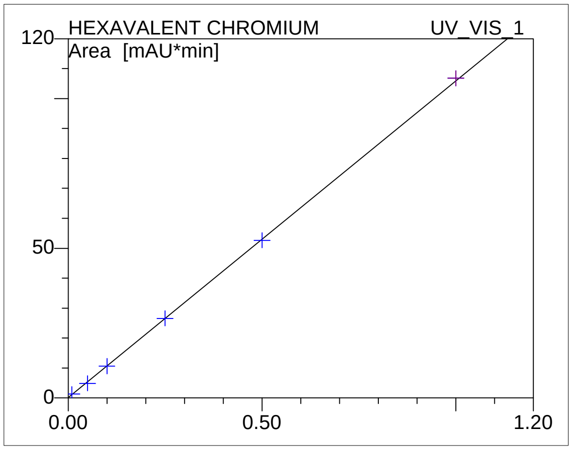




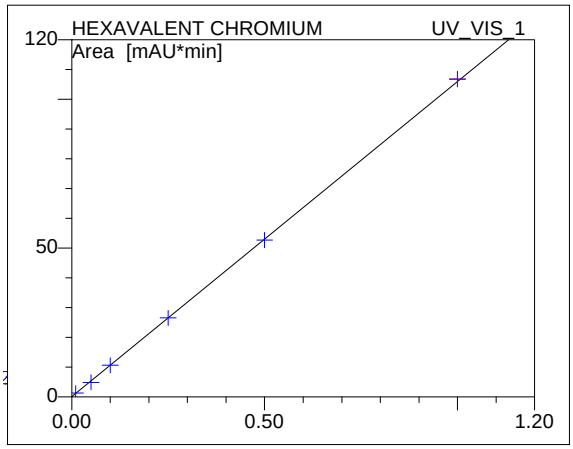








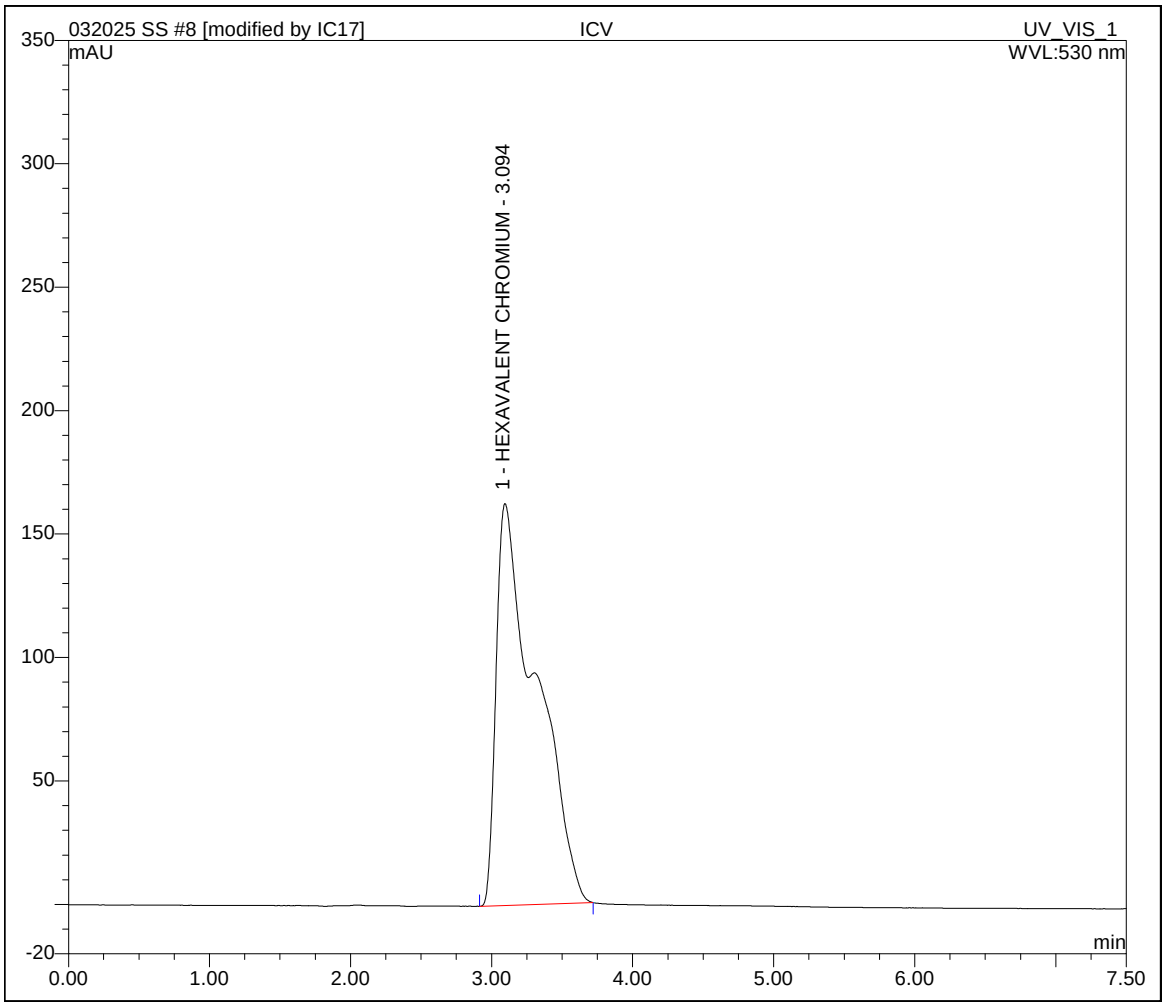
Sequence:	**032025 SS**	*Inj. Vol.:*	**1000.0**
Program:	**CR6IC**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/18/25 02:26**	*Run Time:*	**7.50**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.92	HEXAVALENT C	XLOff	6	0.122	105.825	0.000	99.979
AVERAGE:					0.1224	105.8247	0.0000	99.9786

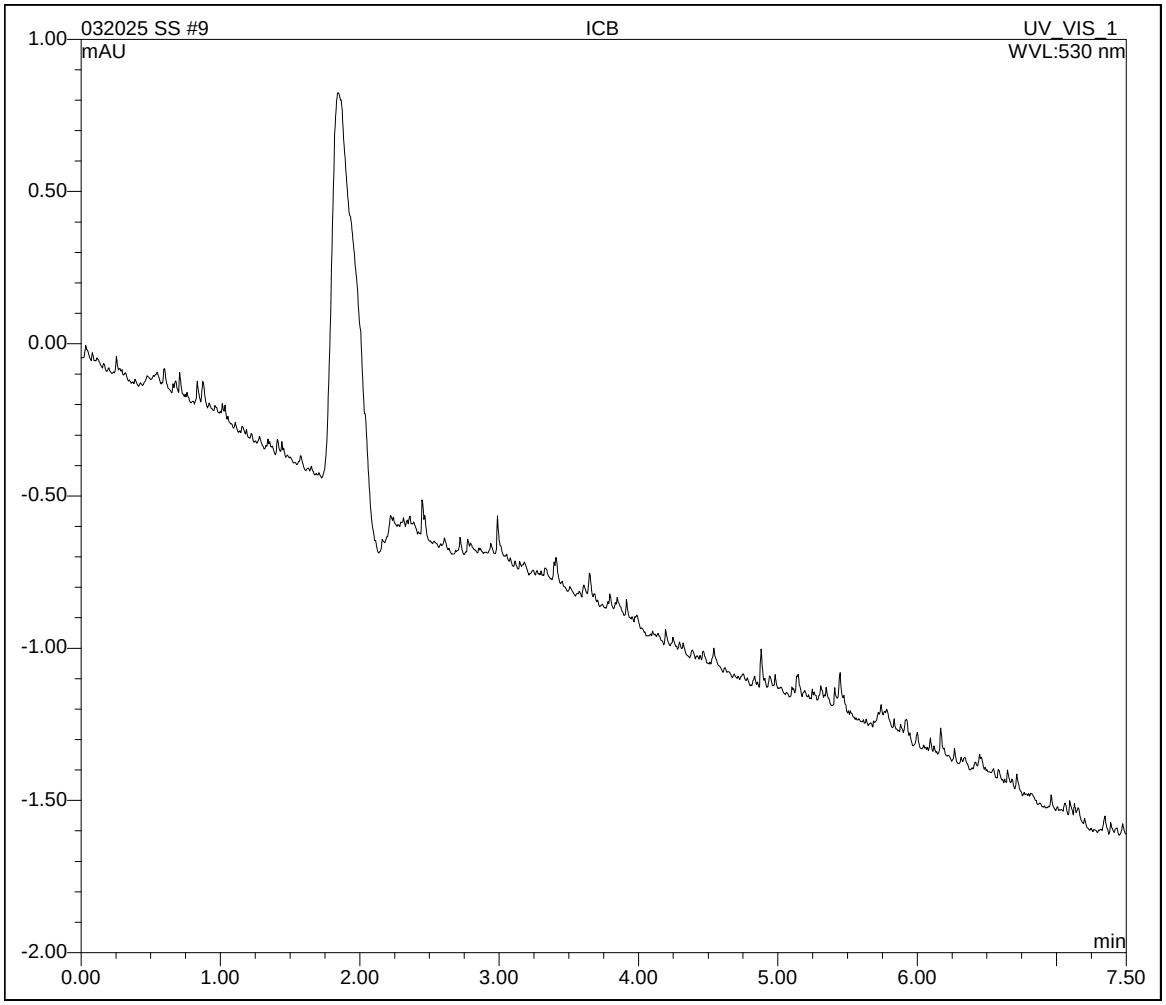
Sample Name:	**ICV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: VS117 032025**
Inj. Date/Time:	**03/20/25 05:50**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.09	HEXAVALENT CHROMIUM	BMB*	53.624	162.869	0.5056
		TOTAL:		53.62	162.87	0.51



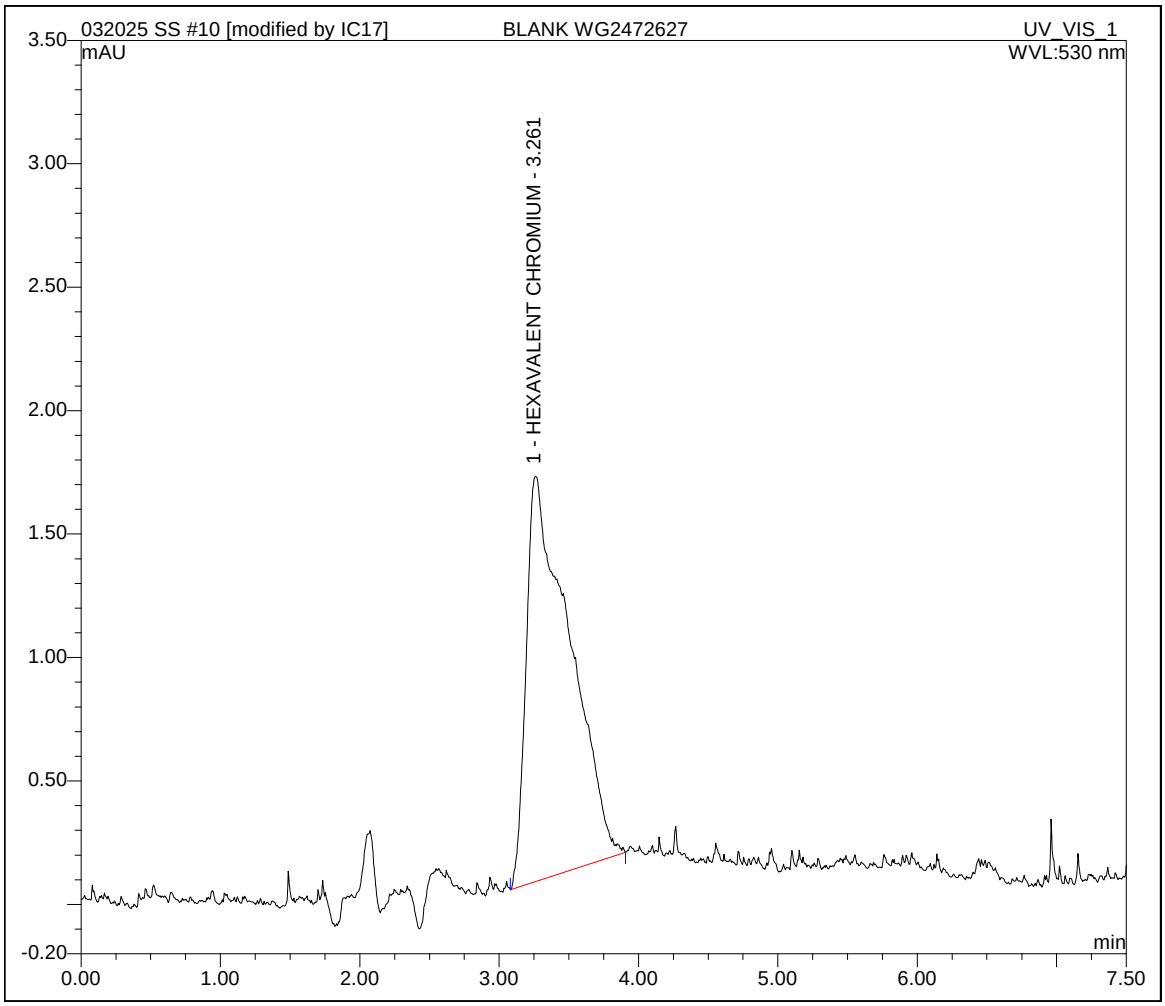
Sample Name:	**ICB**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:00**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



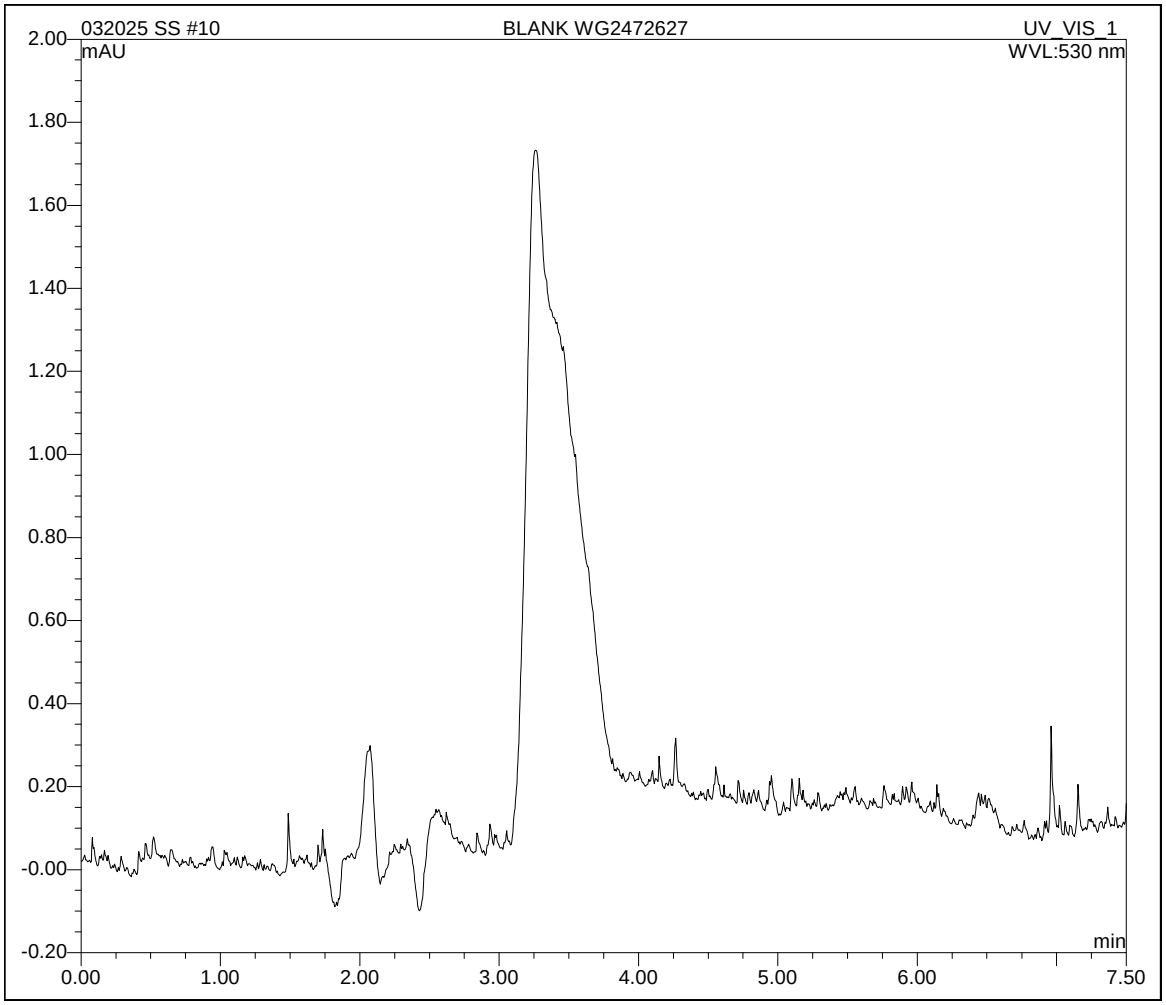
Sample Name:	**BLANK WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 06:12**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.26	HEXAVALENT CHROMIUM	BMB*	0.587	1.640	0.0044
		TOTAL:		0.59	1.64	0.00



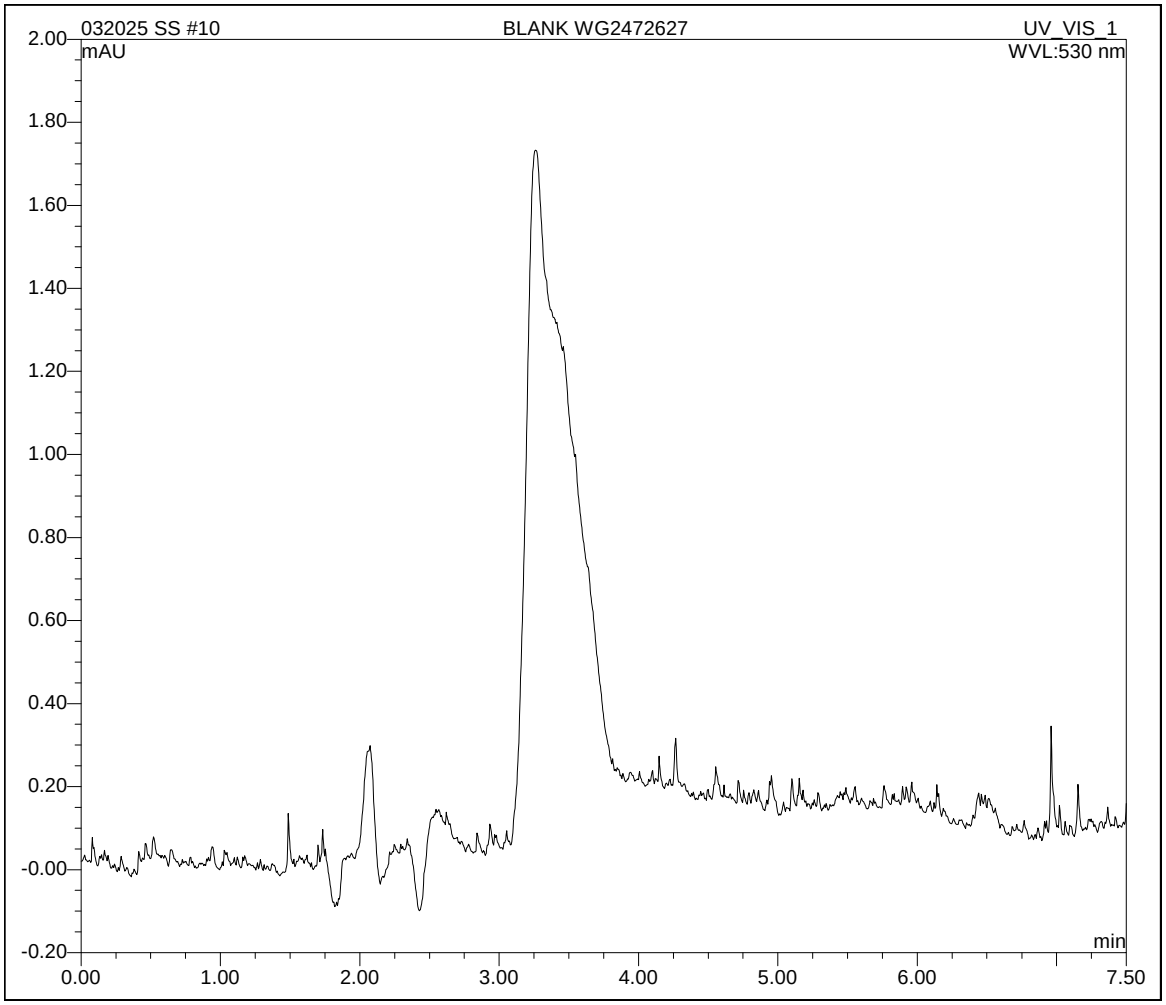
Sample Name:	**BLANK WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:12**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



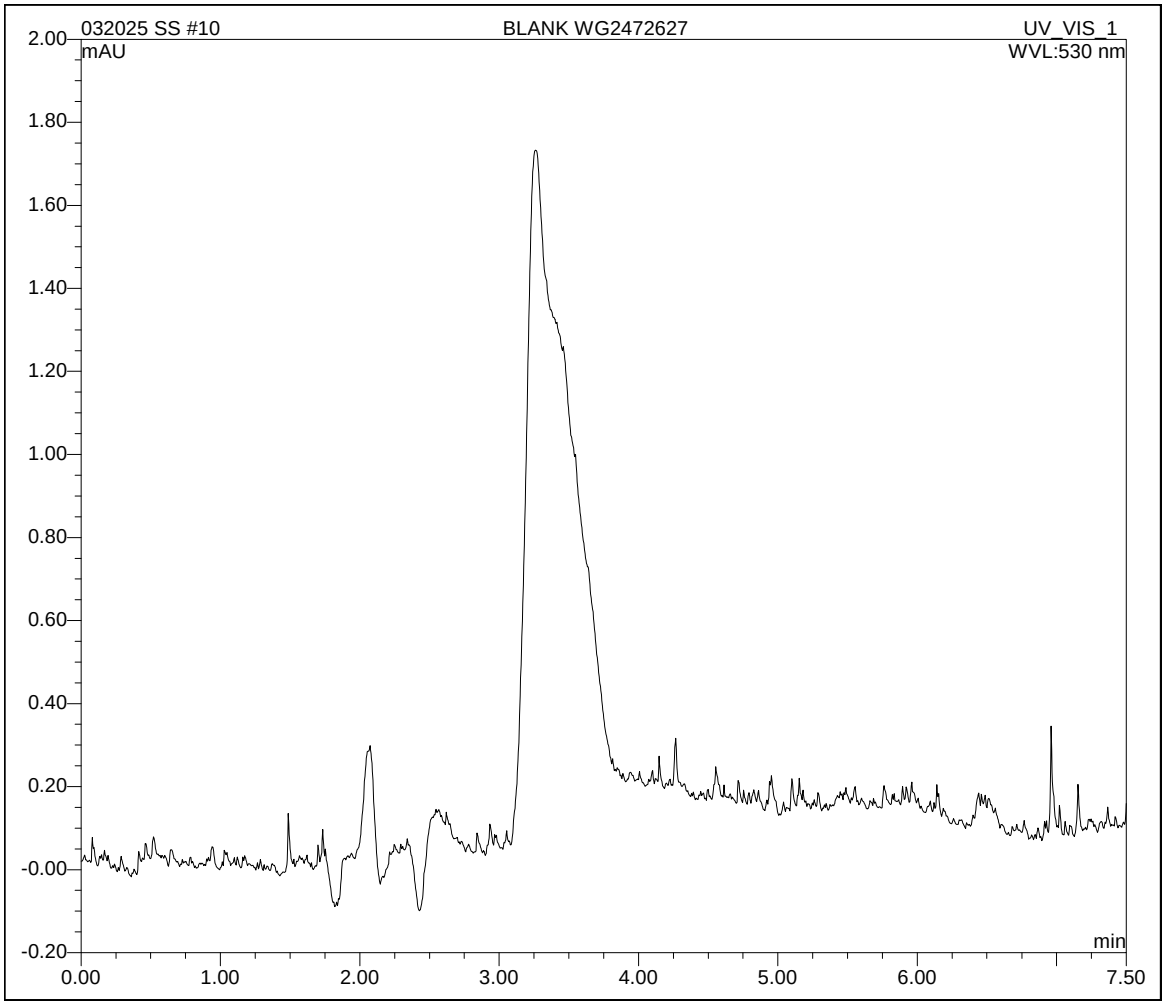
Sample Name:	**BLANK WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:12**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



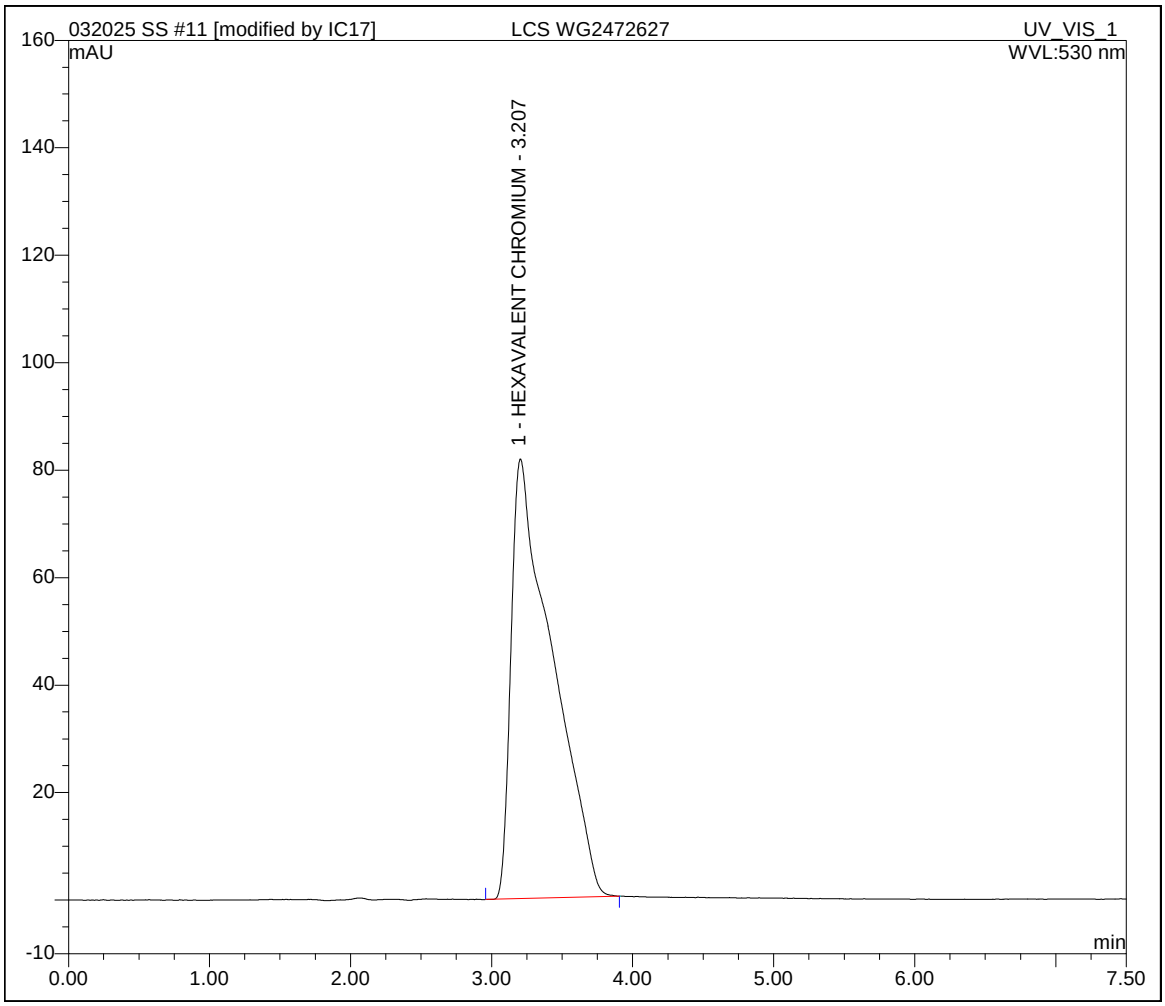
Sample Name:	**BLANK WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:12**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



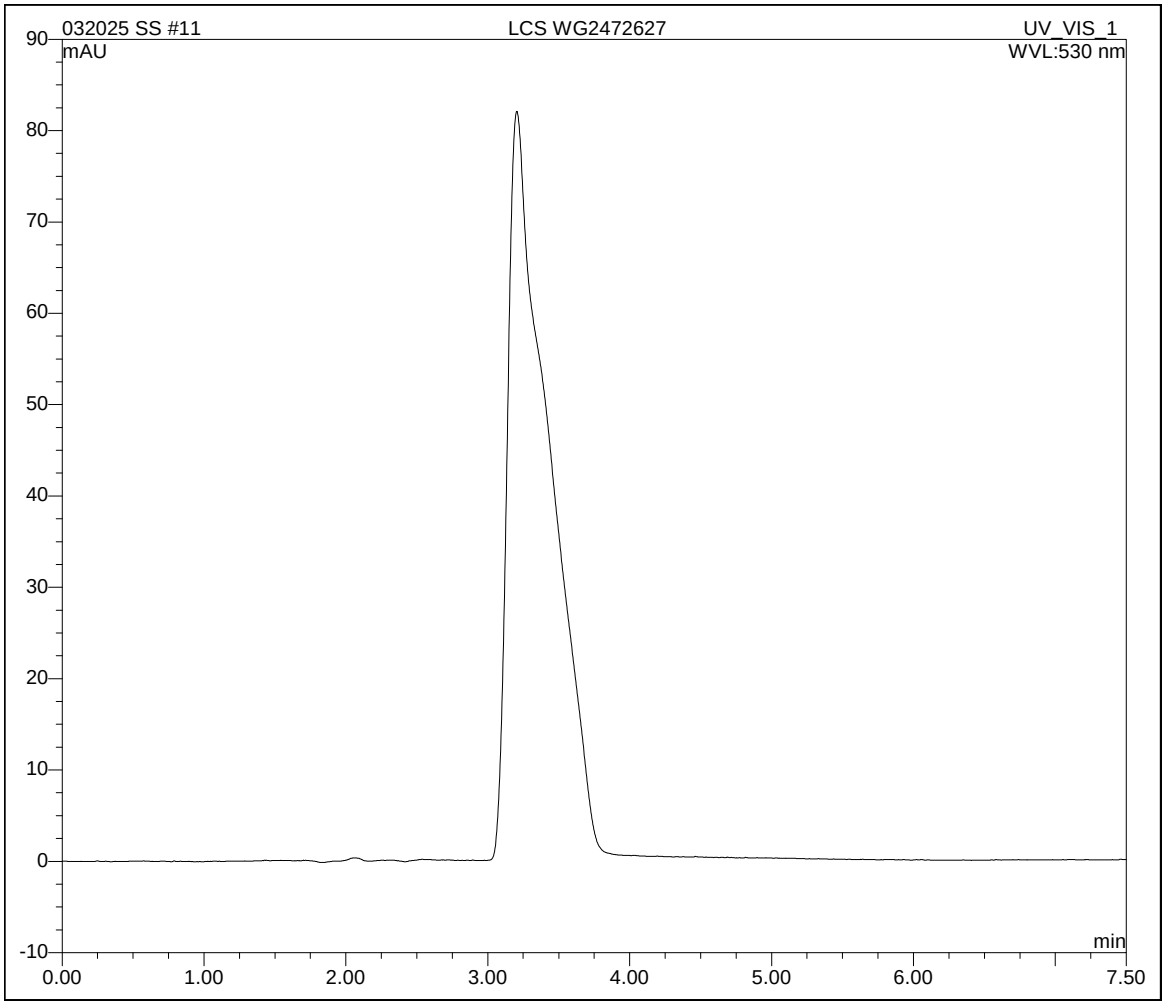
Sample Name:	**LCS WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 06:22**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.21	HEXAVALENT CHROMIUM	BMB*	27.673	81.820	0.2603
		TOTAL:		27.67	81.82	0.26



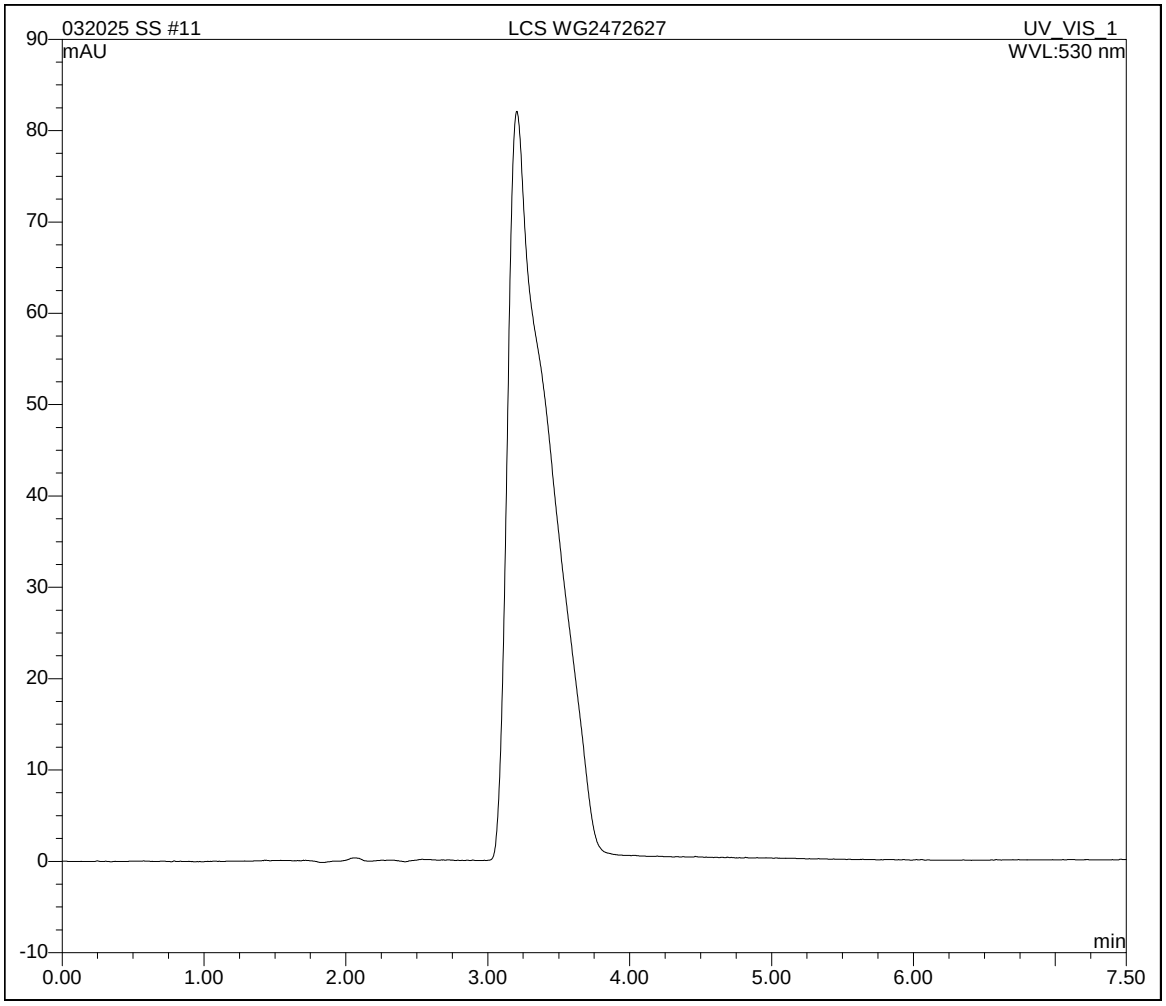
Sample Name:	**LCS WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:22**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



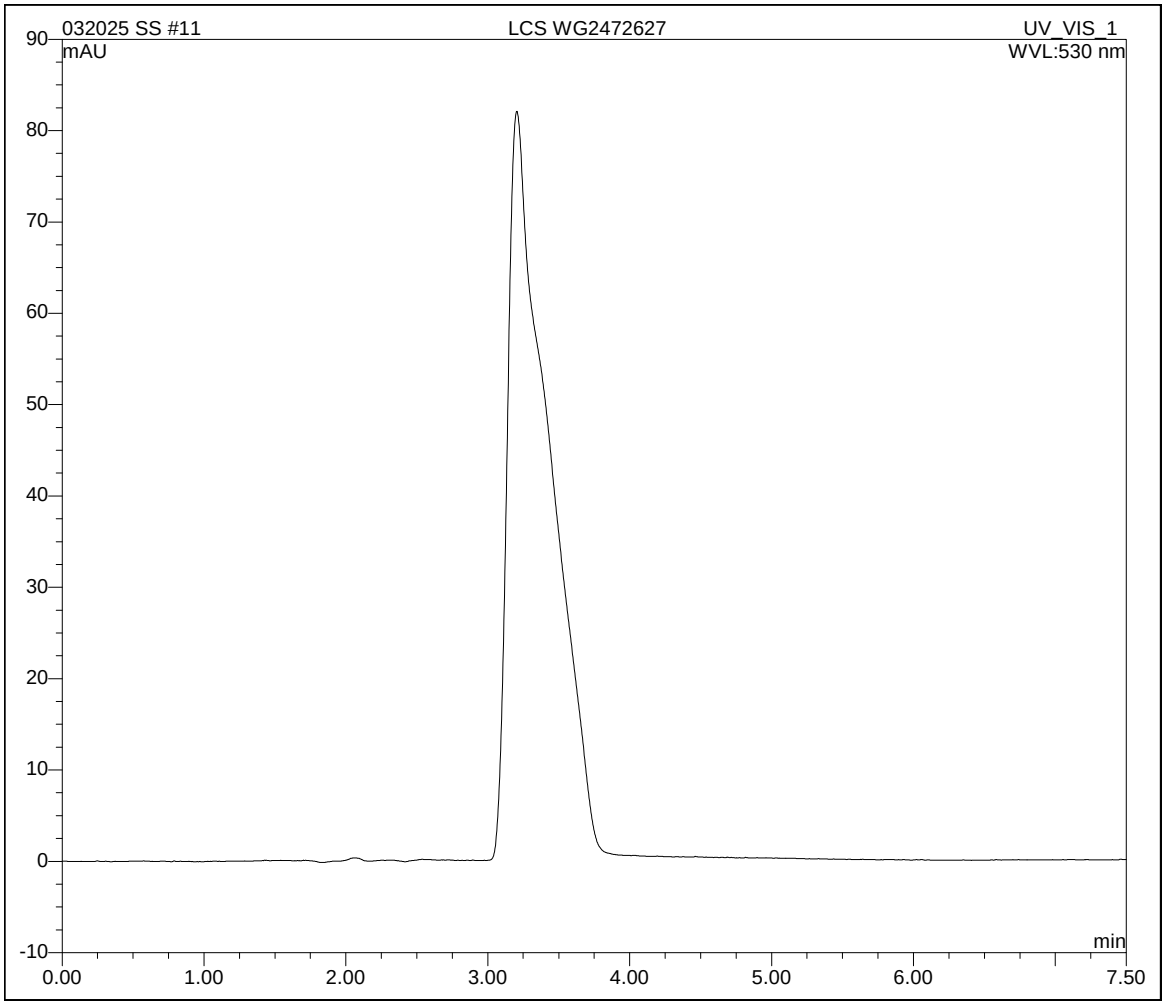
Sample Name:	**LCS WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:22**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



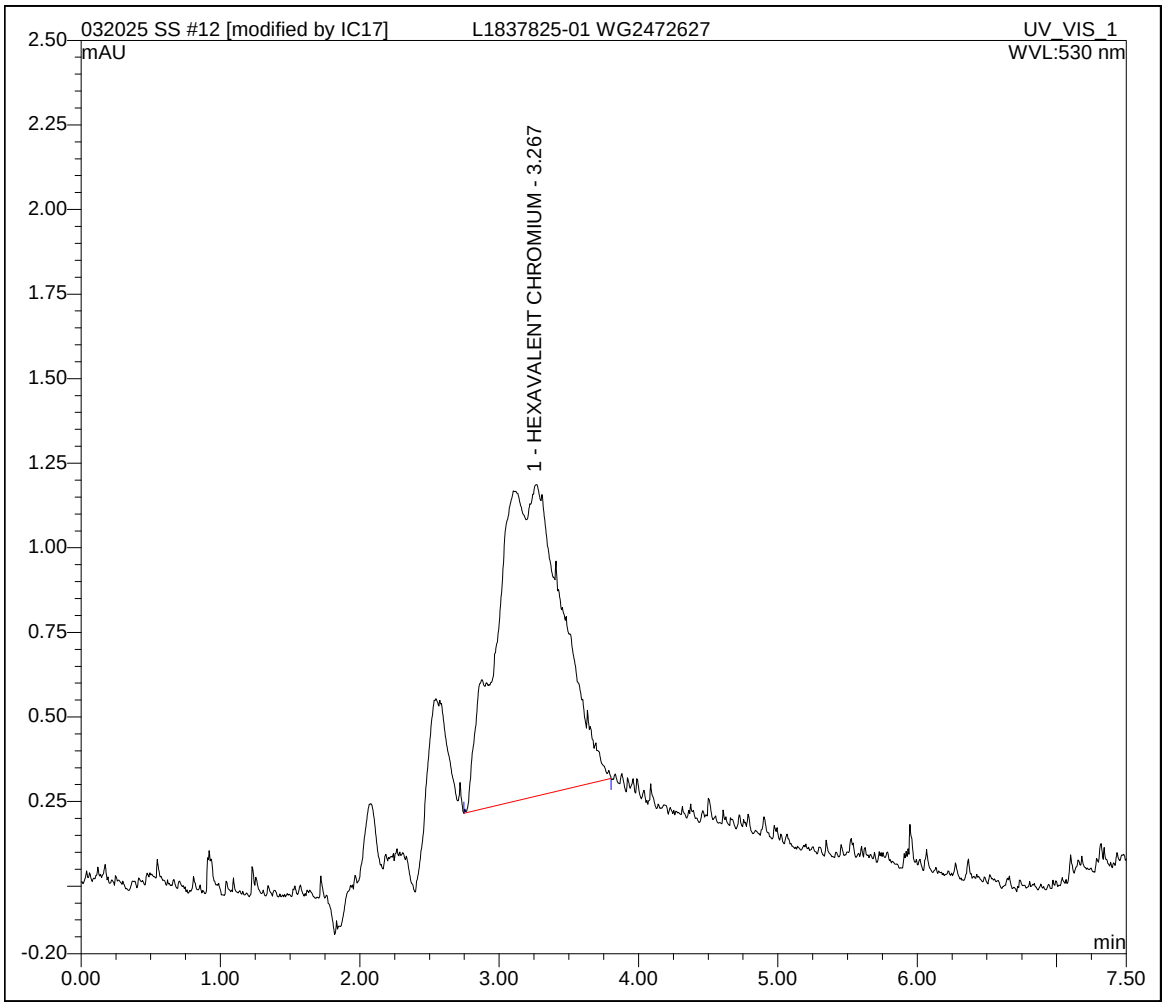
Sample Name:	**LCS WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:22**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



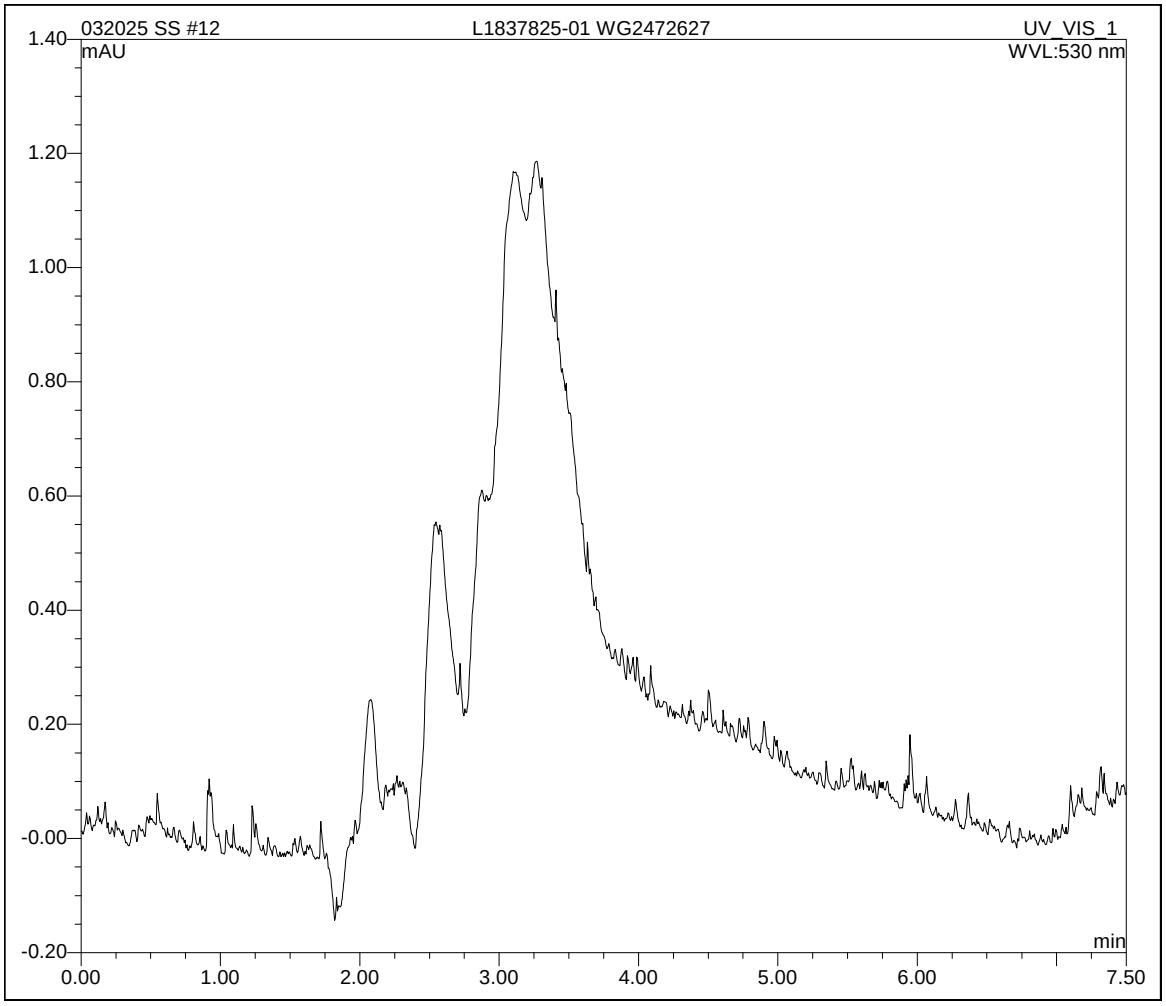
Sample Name:	**L1837825-01 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 06:33**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.27	HEXAVALENT CHROMIUM	BMB*	0.512	0.920	0.0037
		TOTAL:		0.51	0.92	0.00



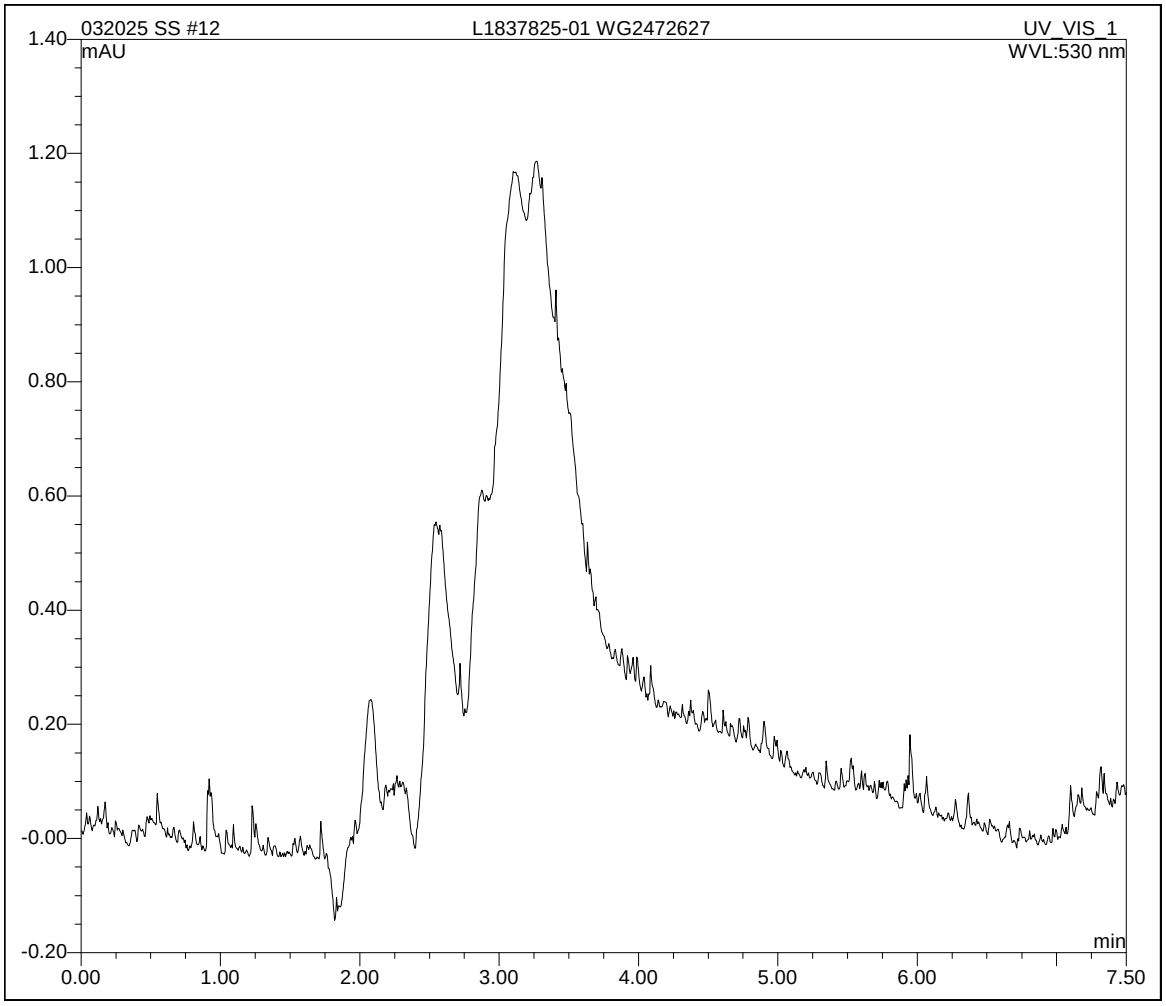
Sample Name:	**L1837825-01 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:33**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



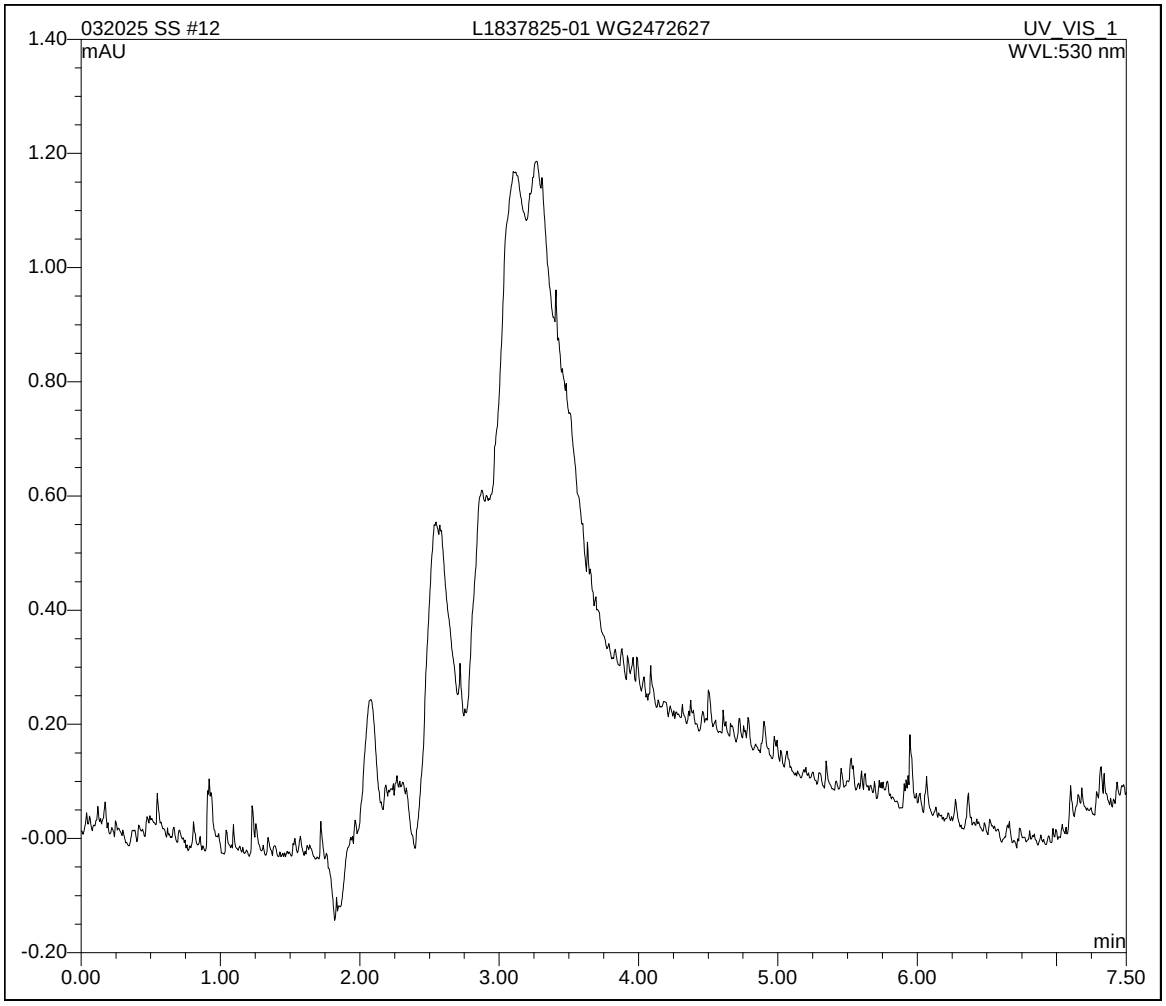
Sample Name:	**L1837825-01 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:33**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



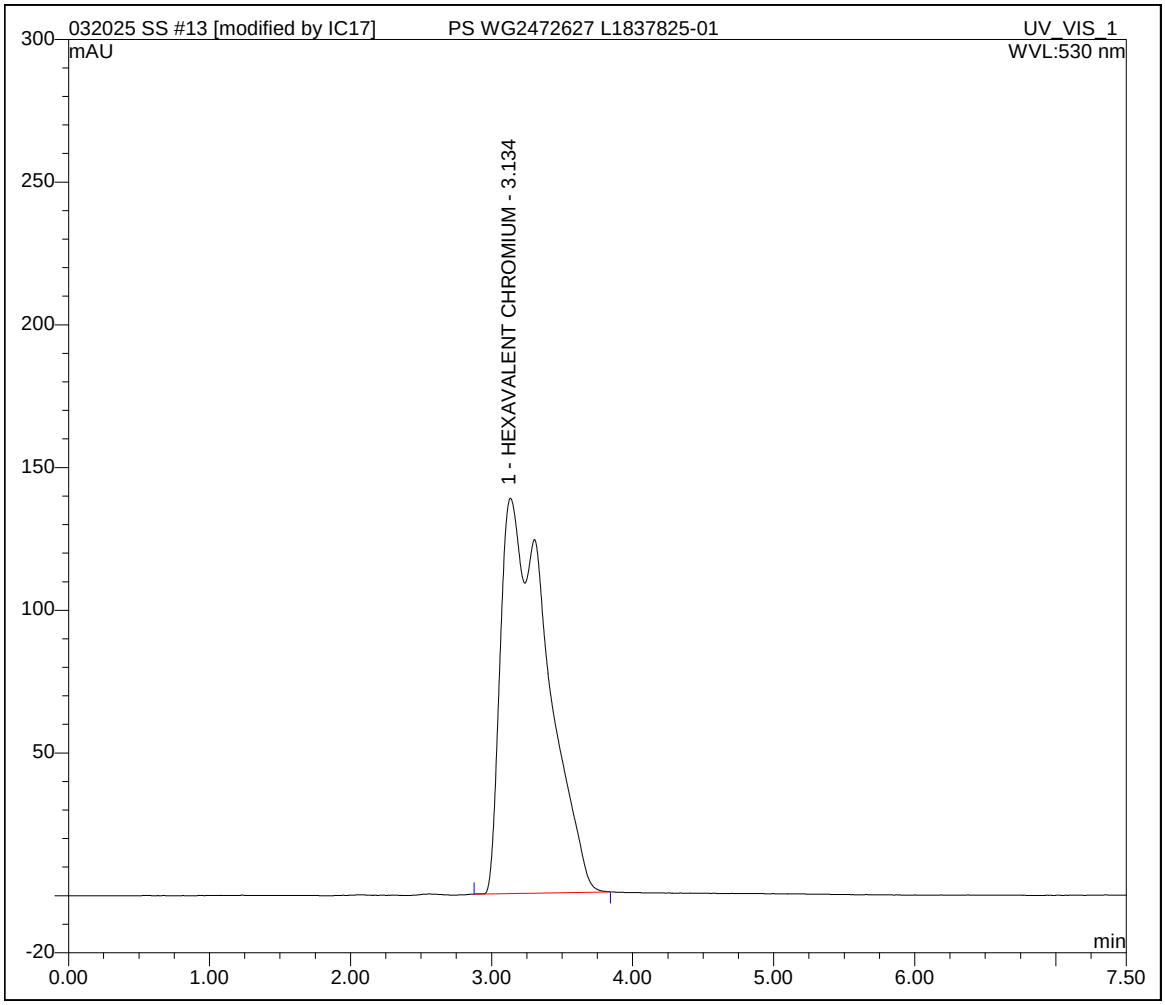
Sample Name:	**L1837825-01 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:33**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



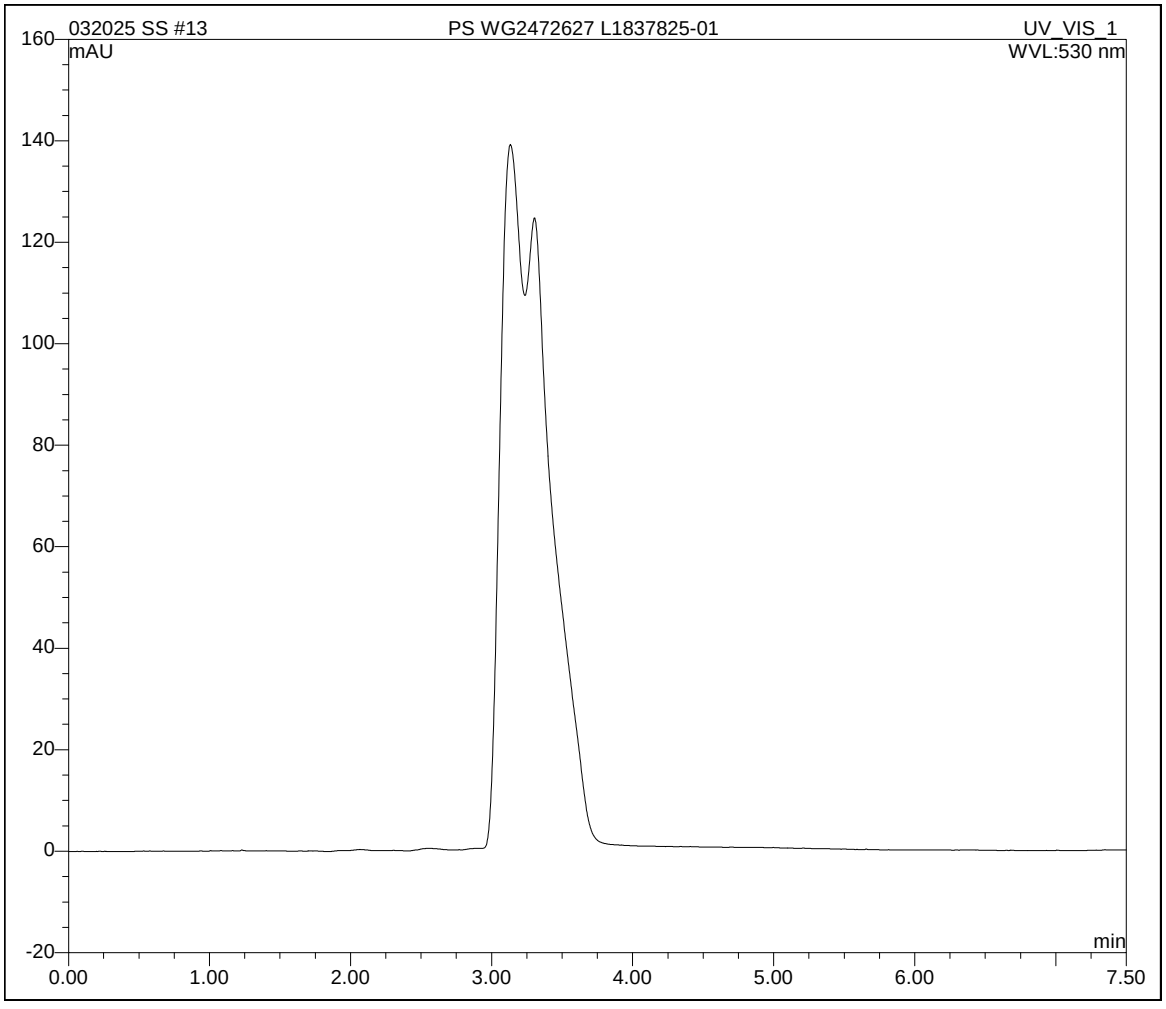
Sample Name:	**PS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 06:43**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.13	HEXAVALENT CHROMIUM	BMB*	52.959	138.508	0.4993
		TOTAL:		52.96	138.51	0.50



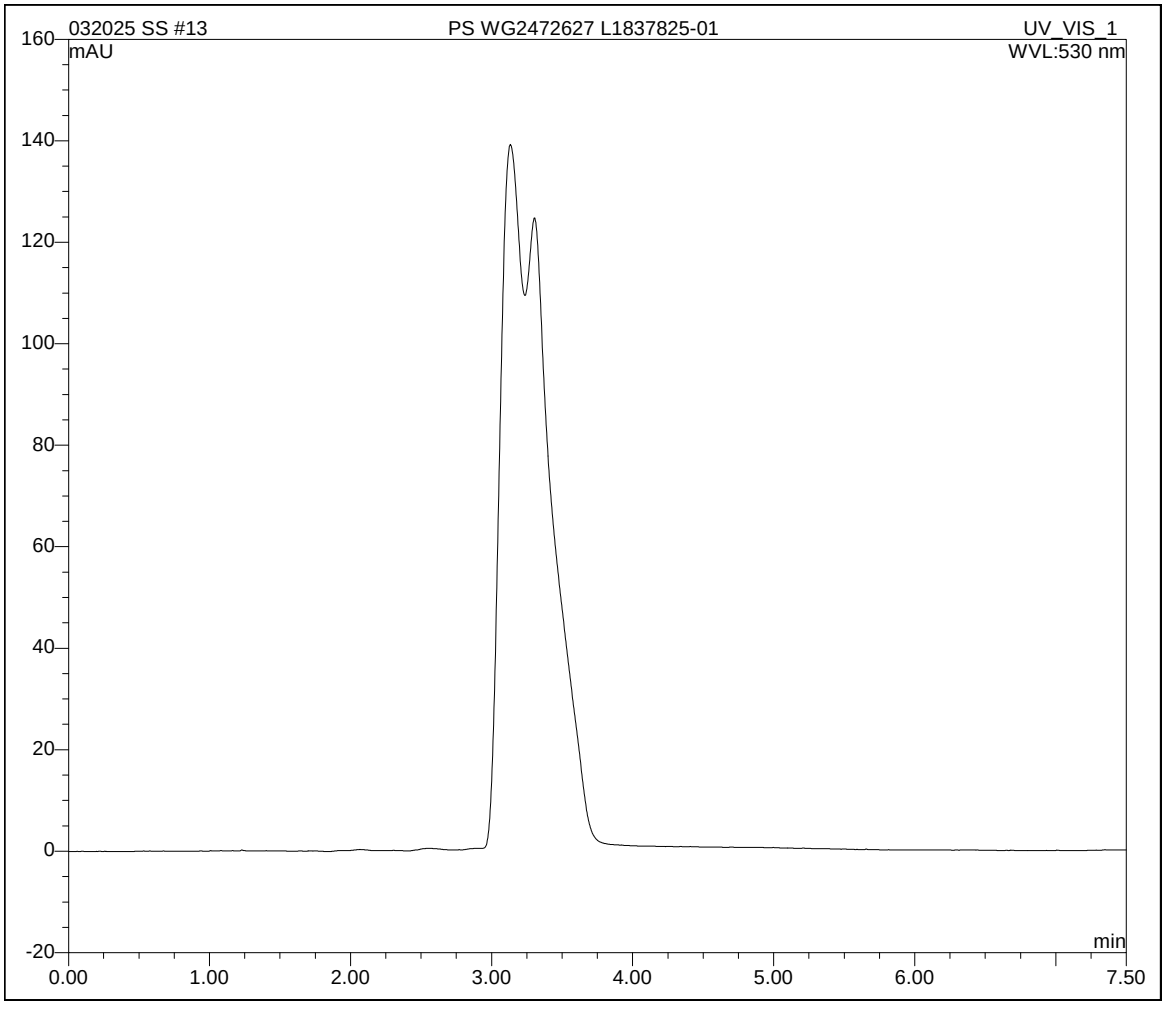
Sample Name:	**PS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:43**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



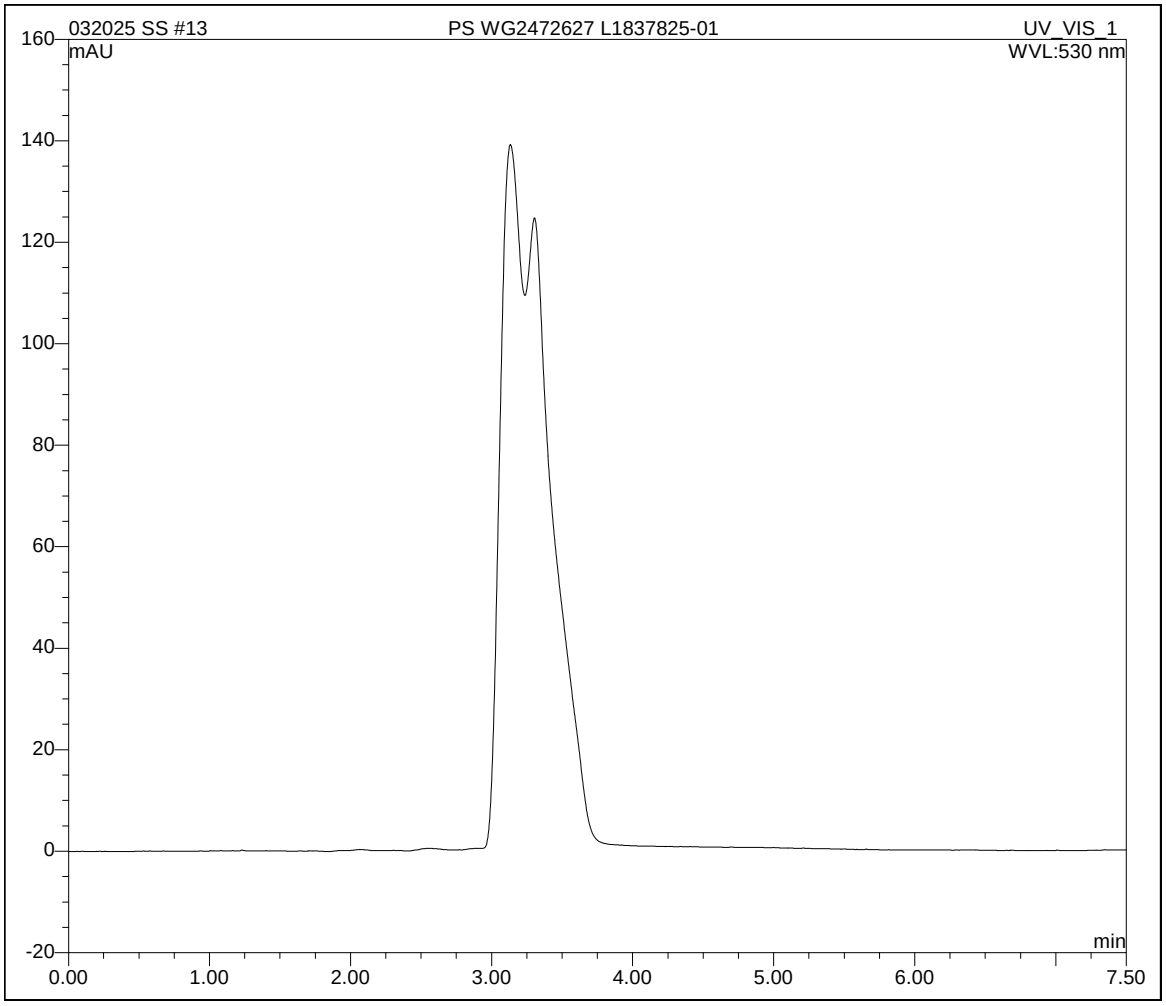
Sample Name:	**PS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:43**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



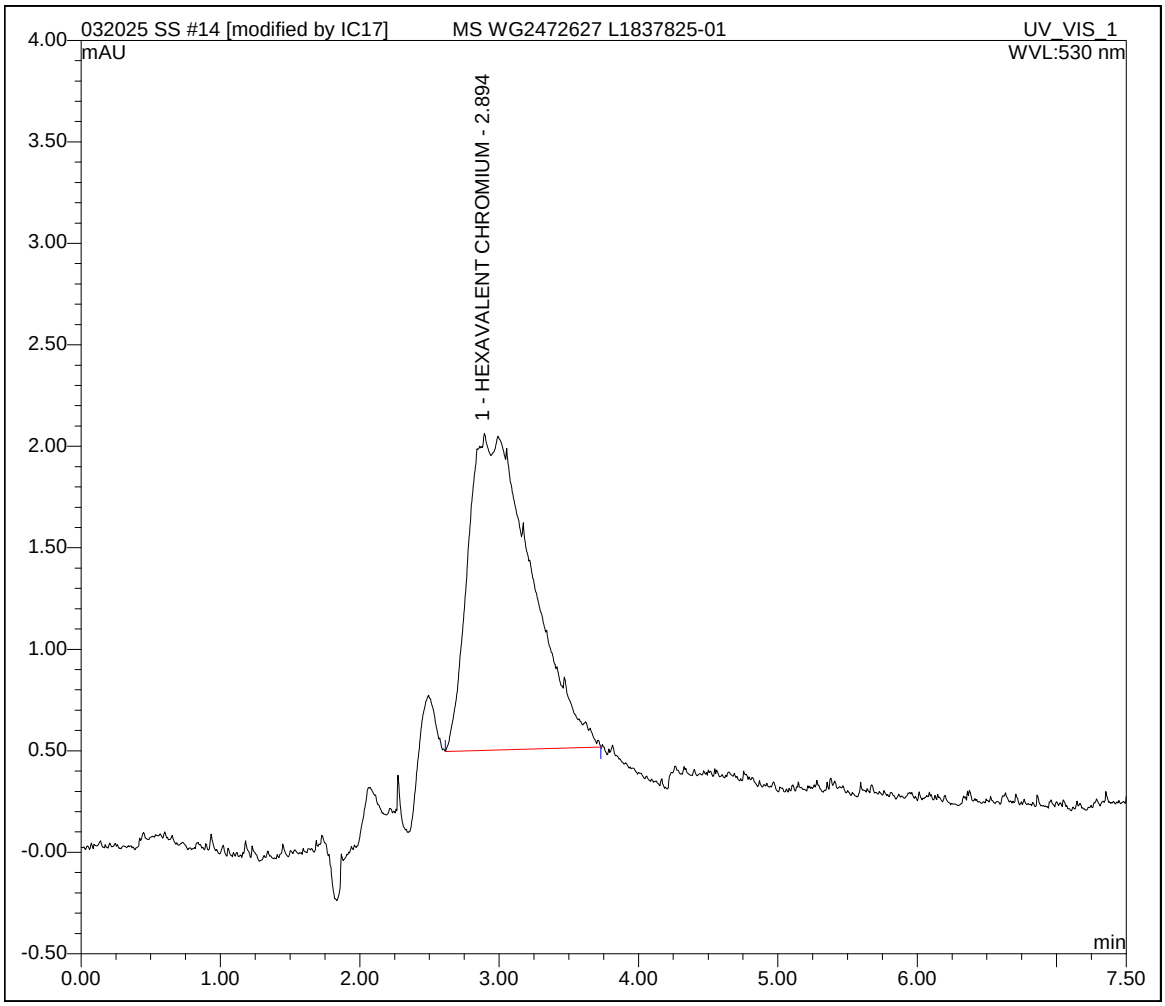
Sample Name:	**PS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:43**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



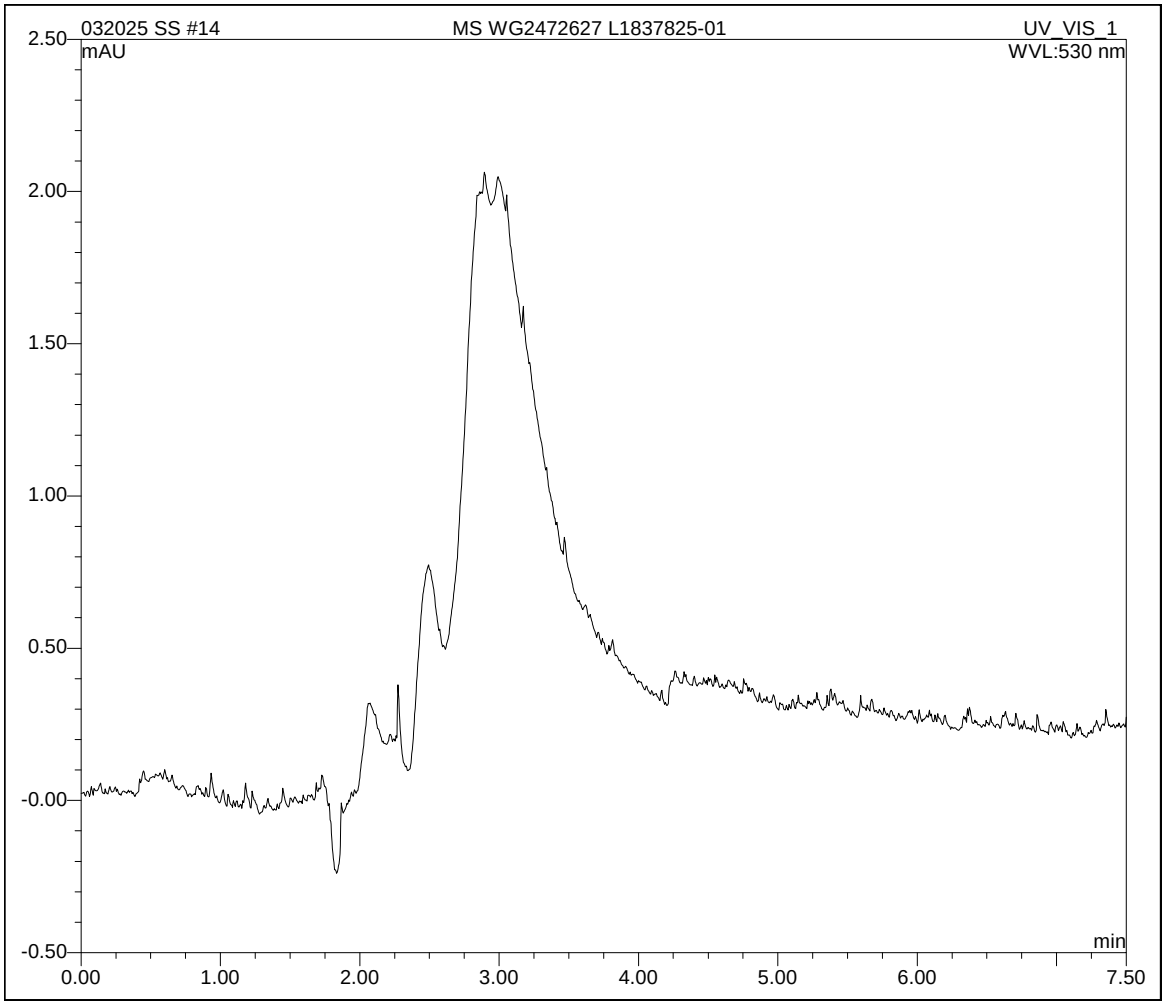
Sample Name:	**MS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 06:54**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	2.89	HEXAVALENT CHROMIUM	BMB*	0.824	1.561	0.0066
		TOTAL:		0.82	1.56	0.01



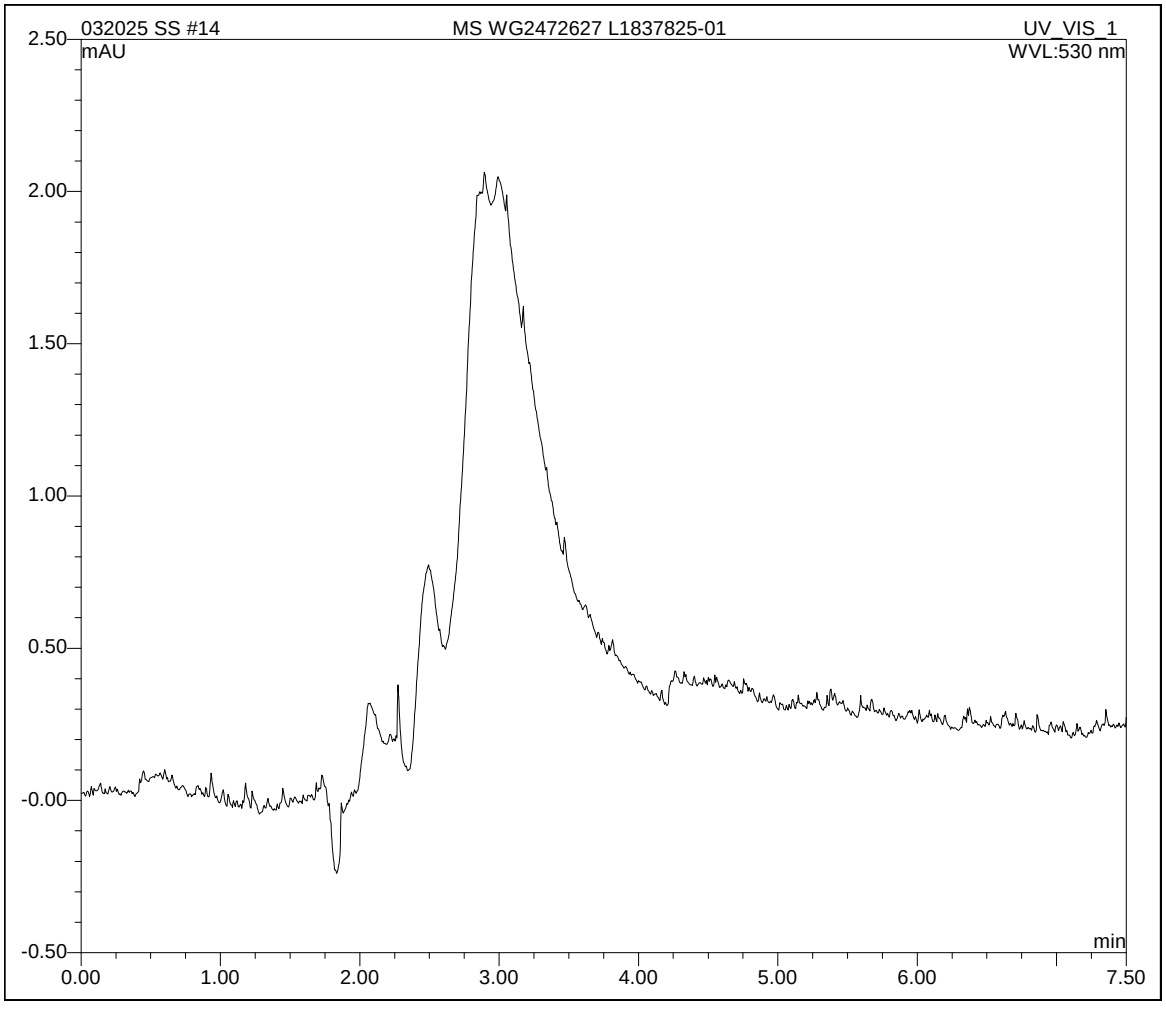
Sample Name:	**MS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:54**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



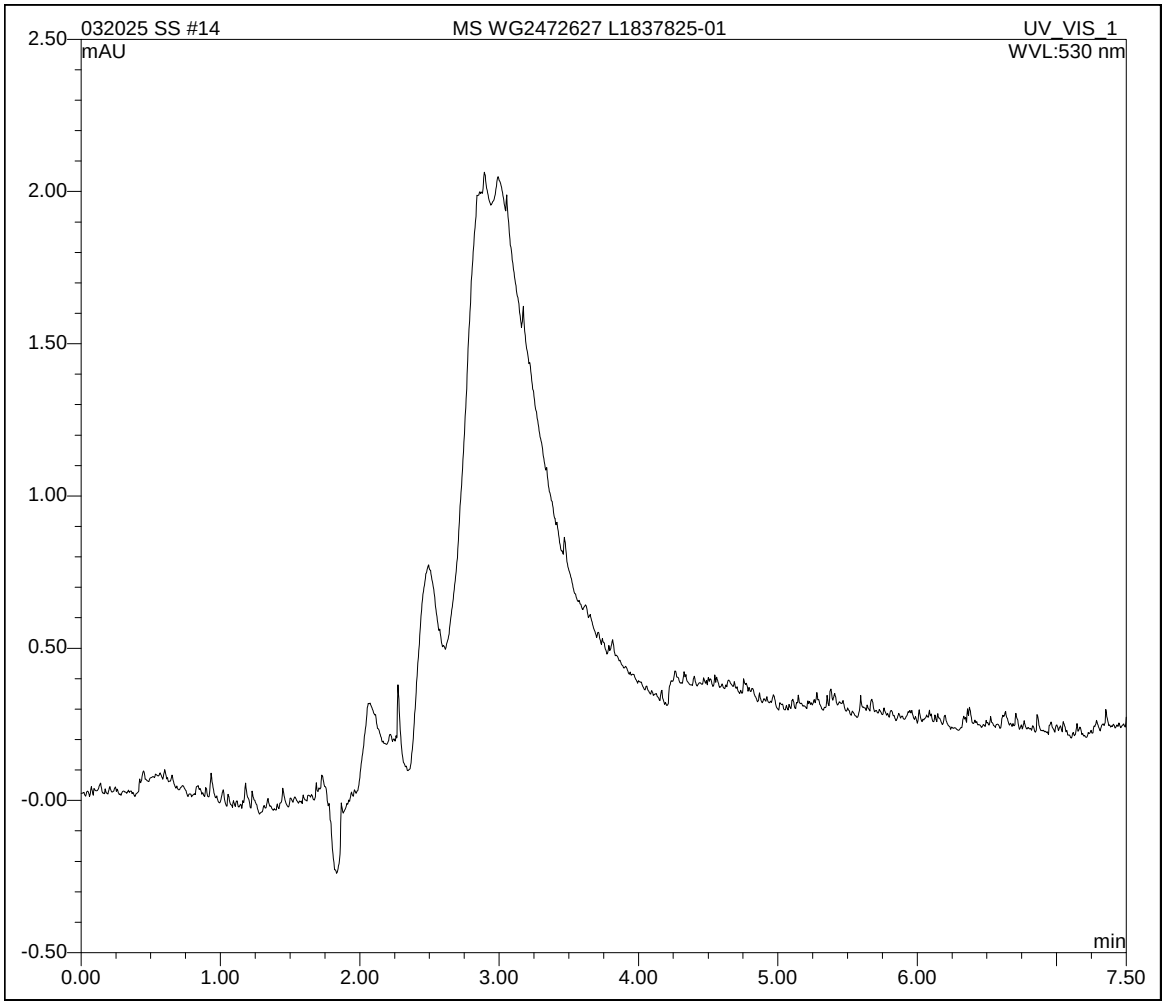
Sample Name:	**MS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:54**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



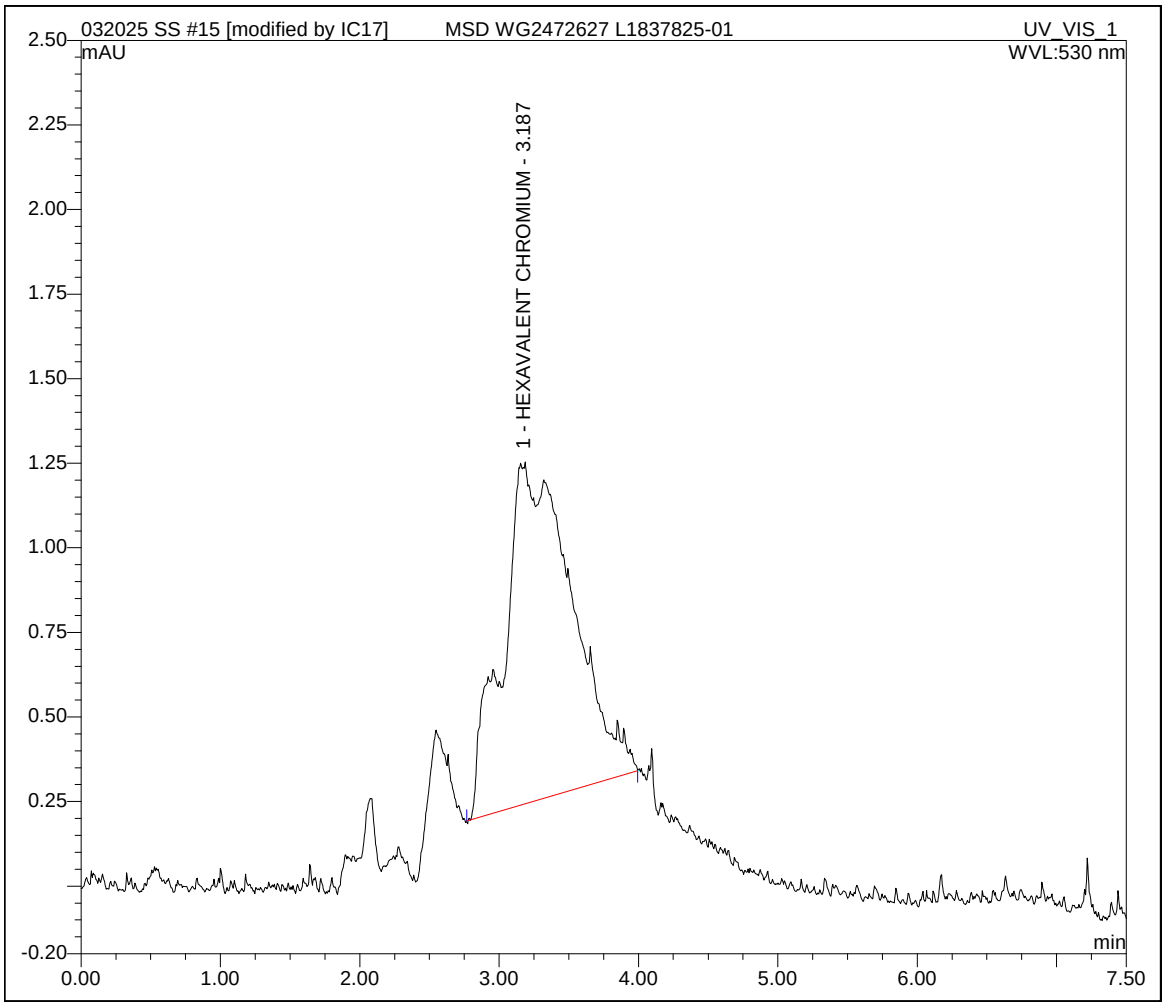
Sample Name:	**MS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 06:54**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



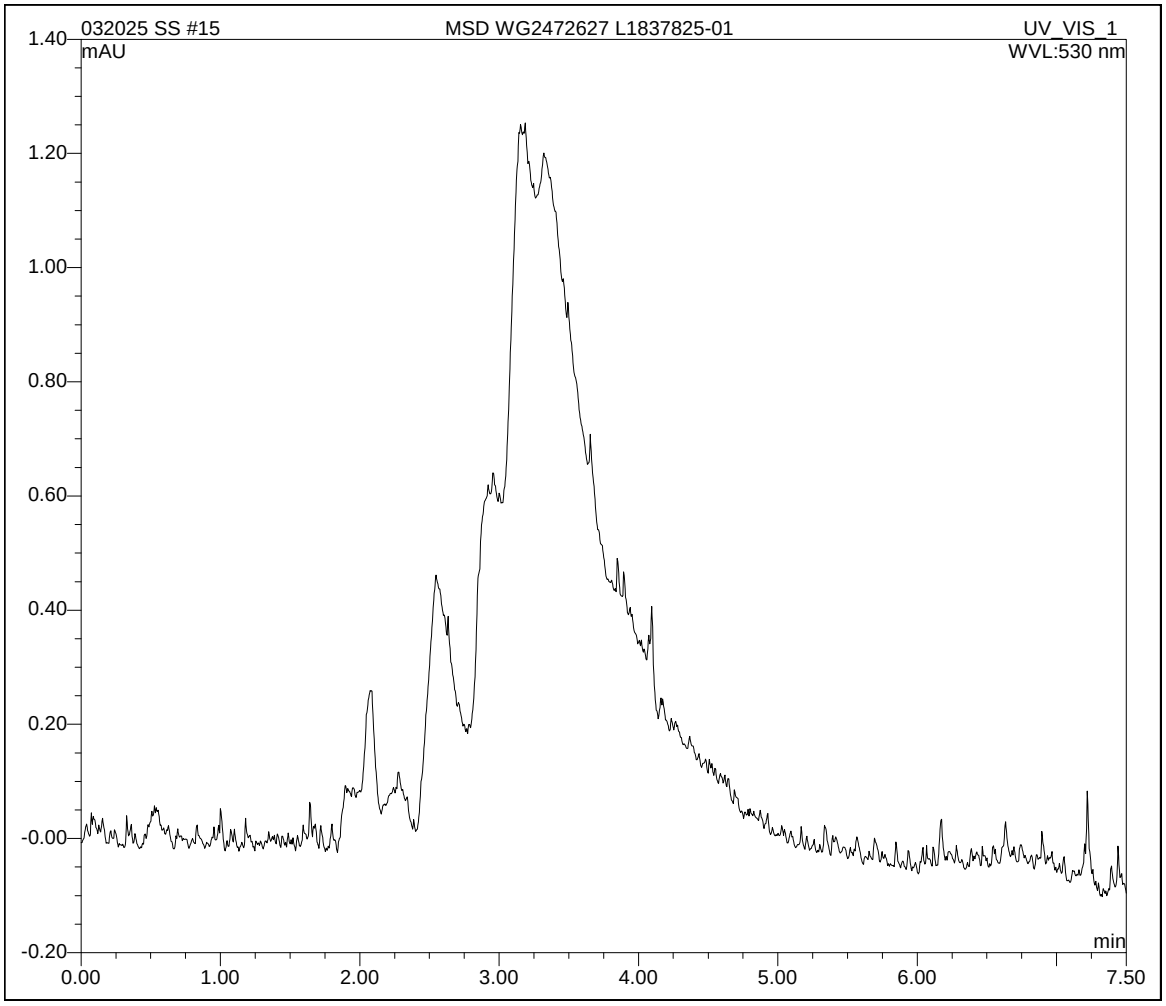
Sample Name:	**MSD WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 07:04**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.19	HEXAVALENT CHROMIUM	BMB*	0.578	1.010	0.0043
		TOTAL:		0.58	1.01	0.00



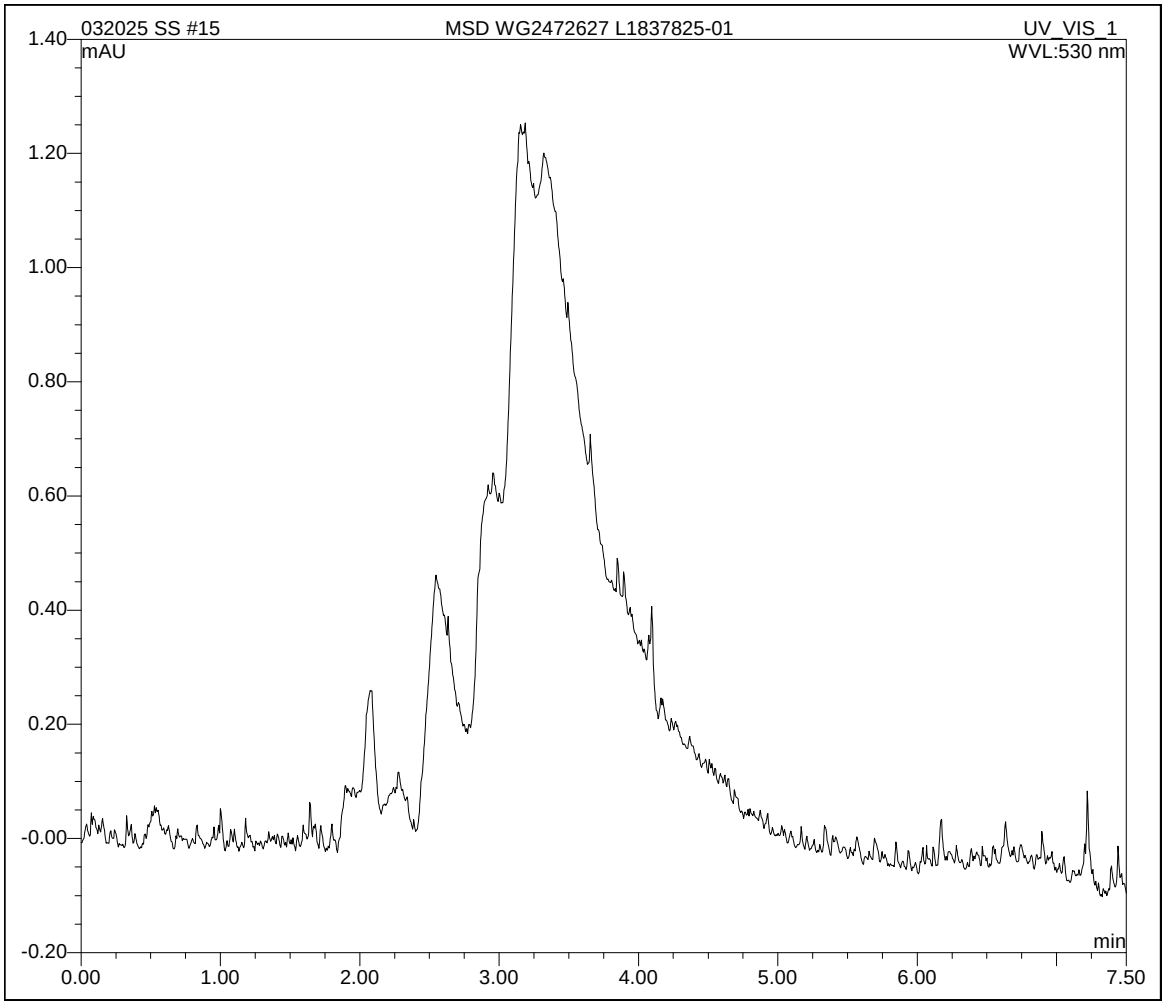
Sample Name:	**MSD WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:04**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



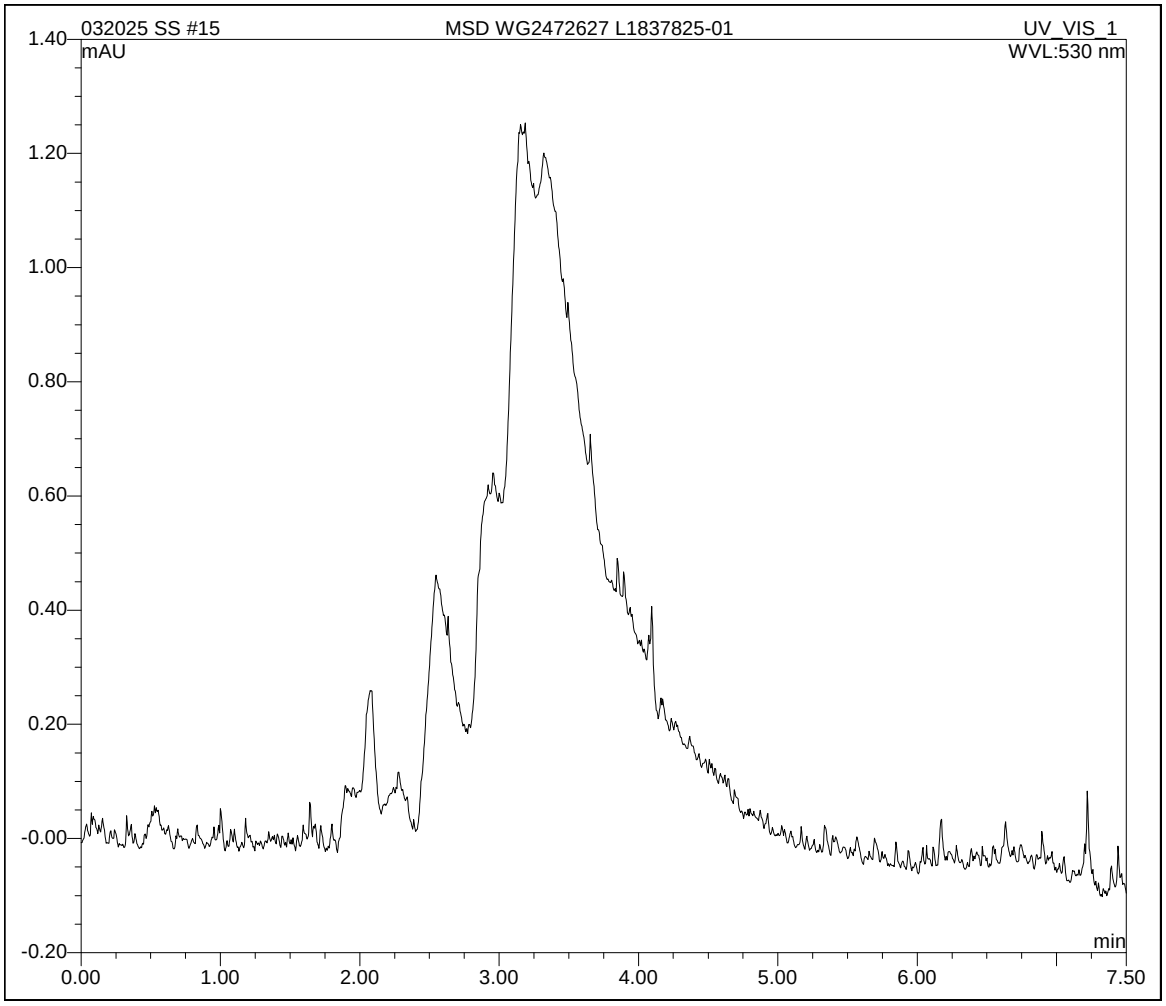
Sample Name:	**MSD WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:04**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



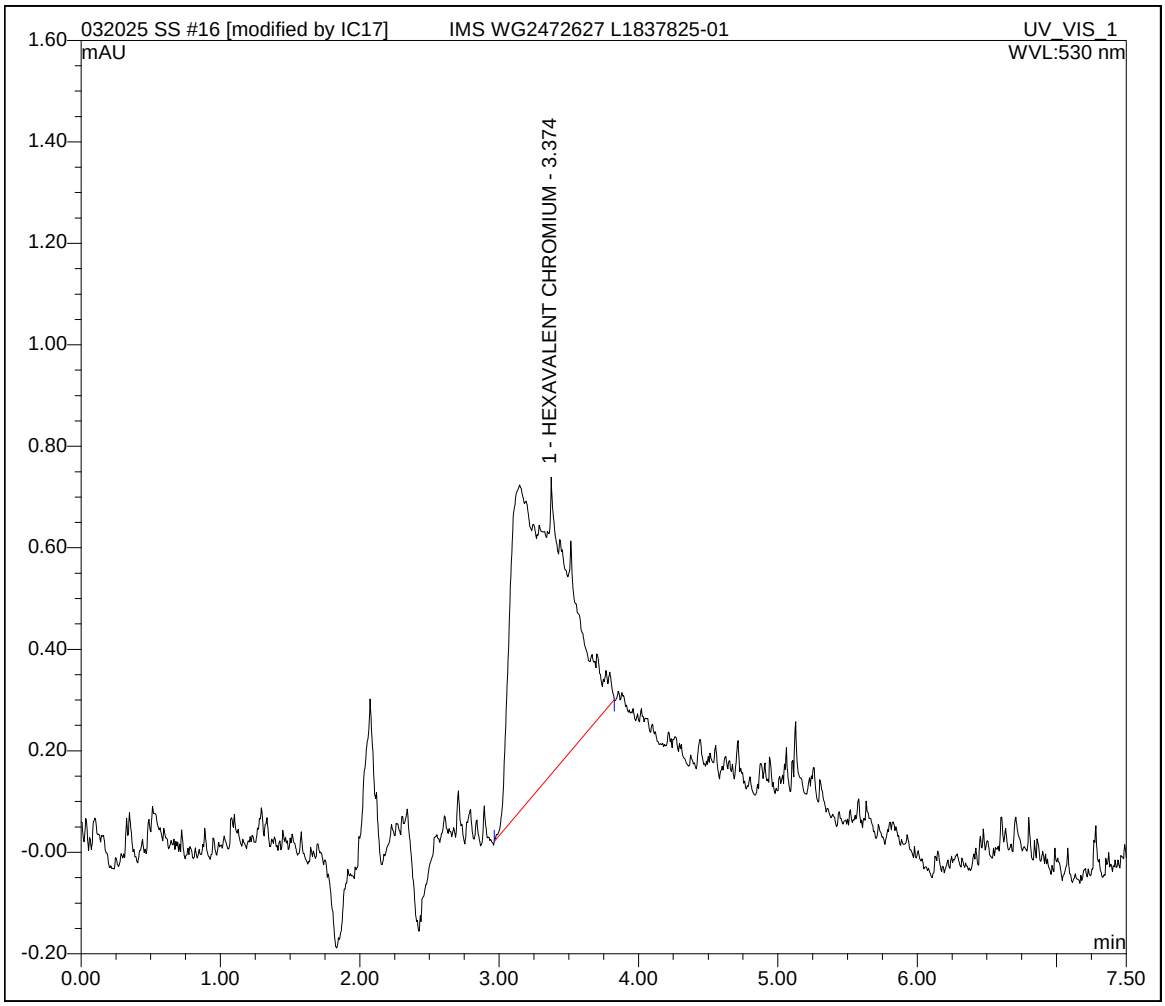
Sample Name:	**MSD WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:04**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



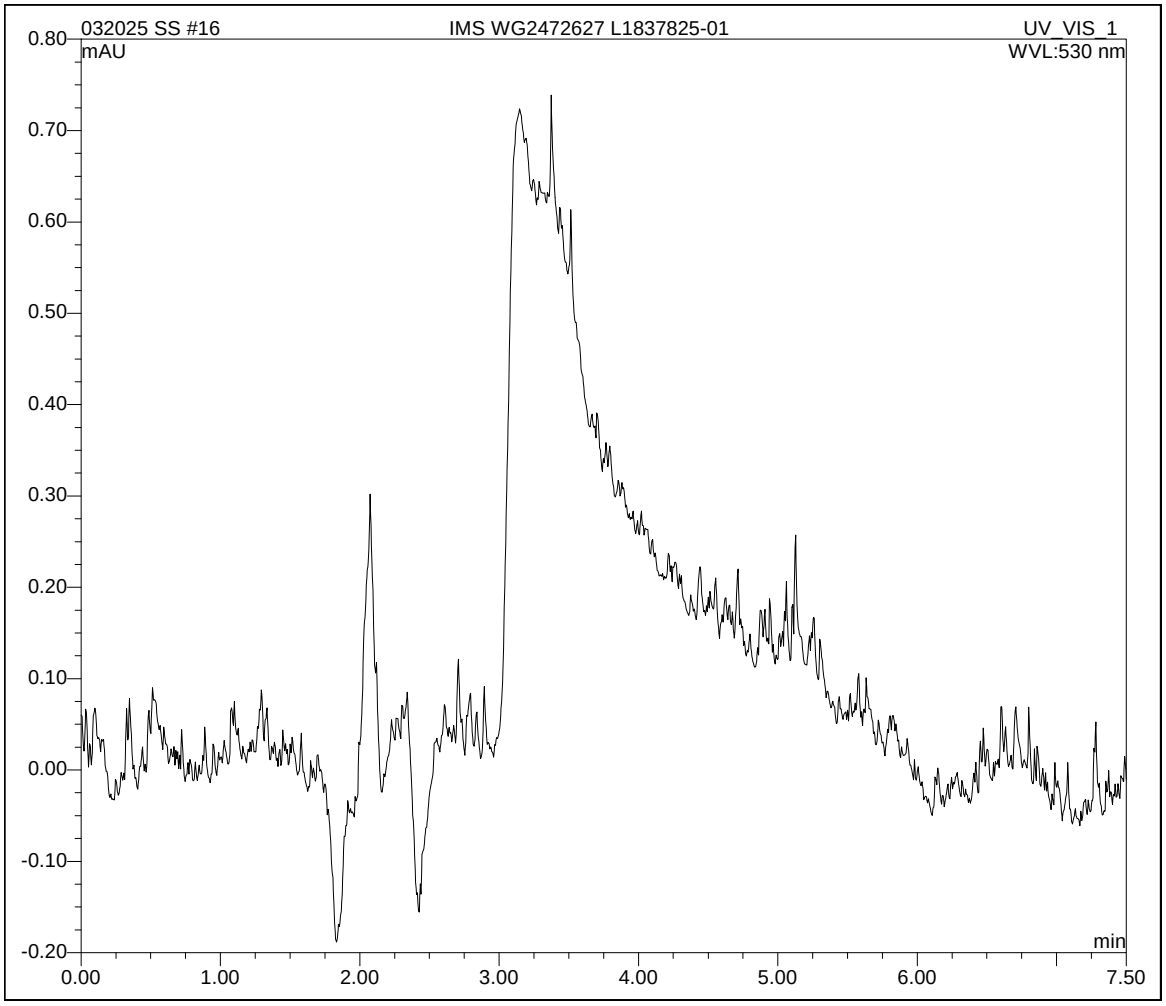
Sample Name:	**IMS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**50.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 07:15**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.37	HEXAVALENT CHROMIUM	BMB*	0.282	0.585	0.0753
		TOTAL:		0.28	0.58	0.08



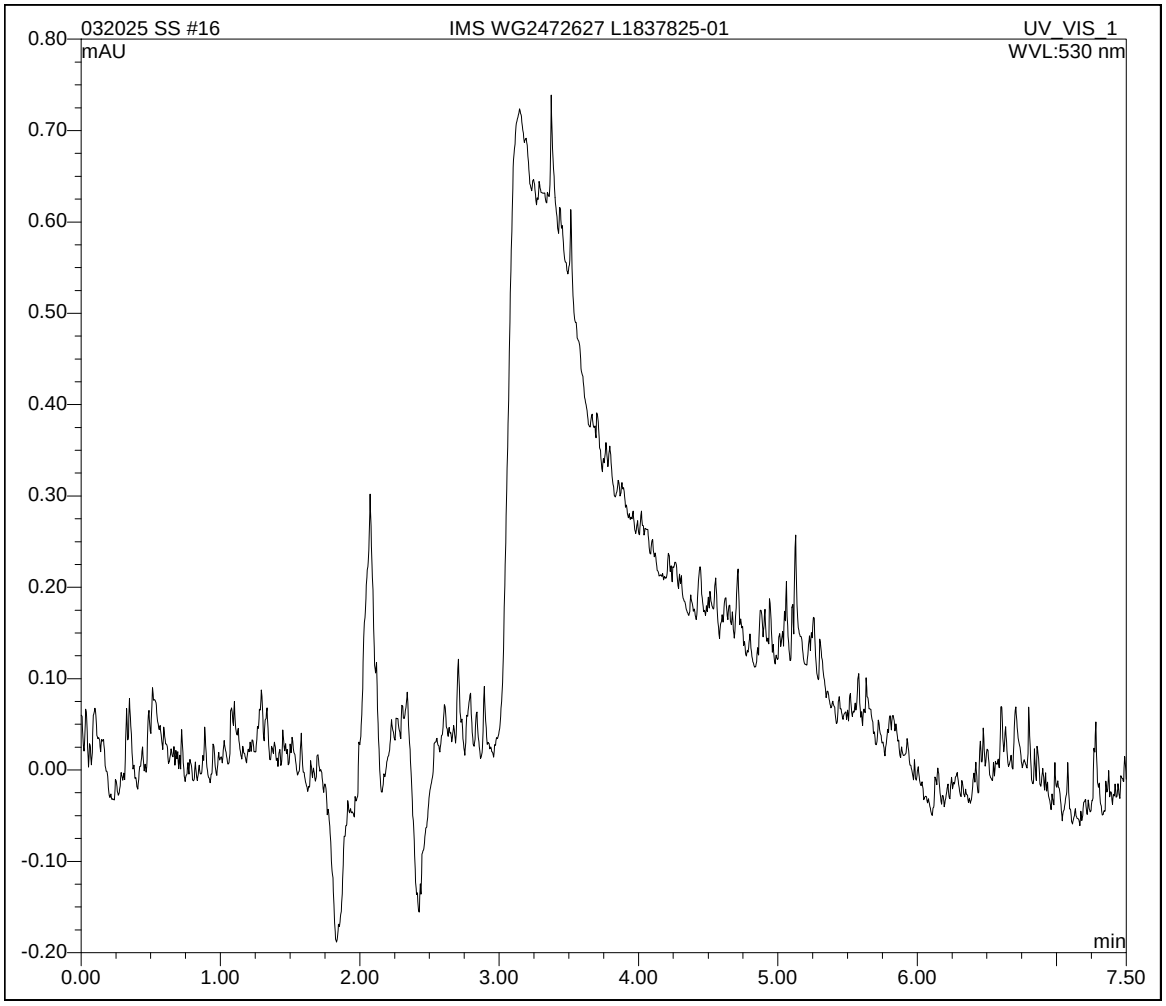
Sample Name:	**IMS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**50.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:15**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



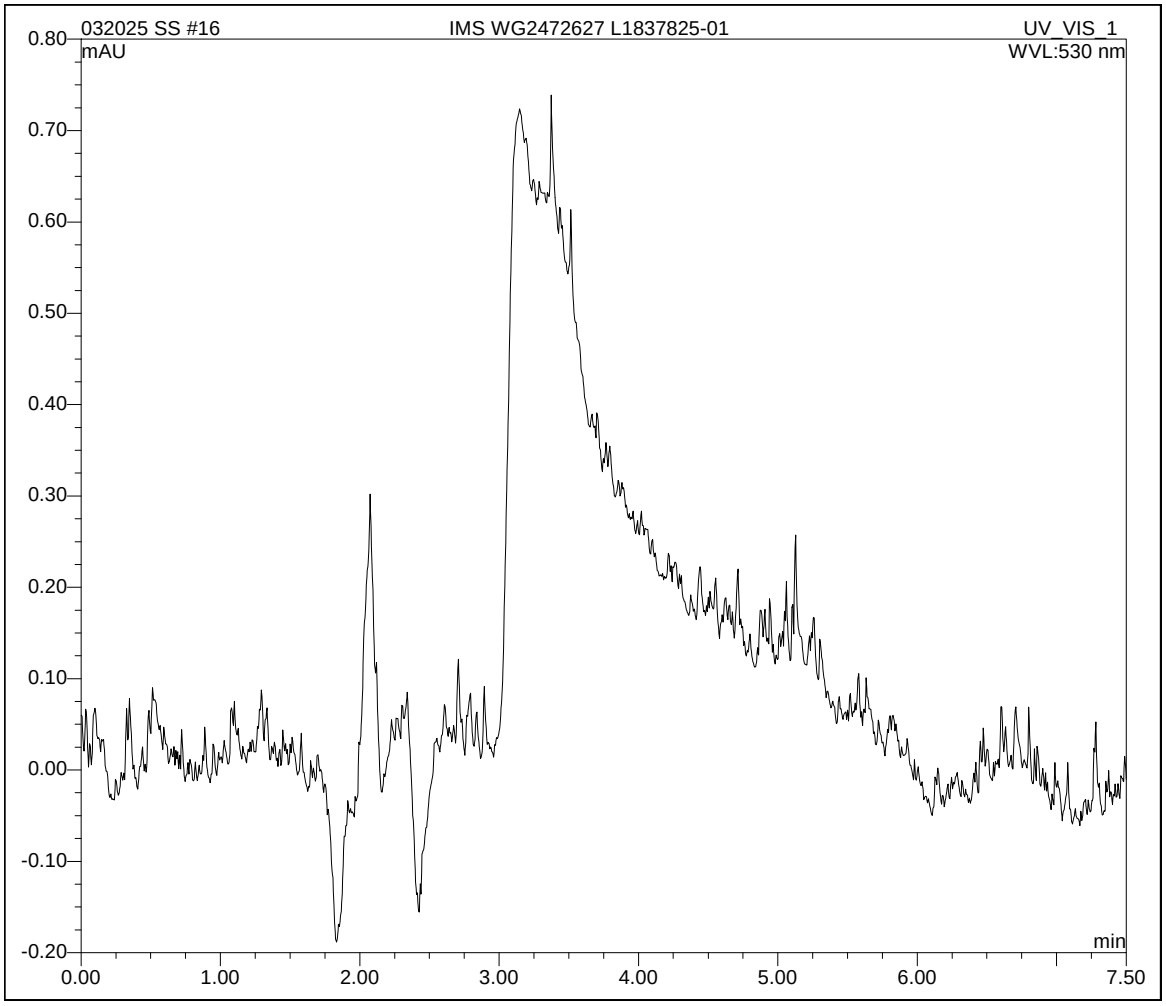
Sample Name:	**IMS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**50.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:15**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



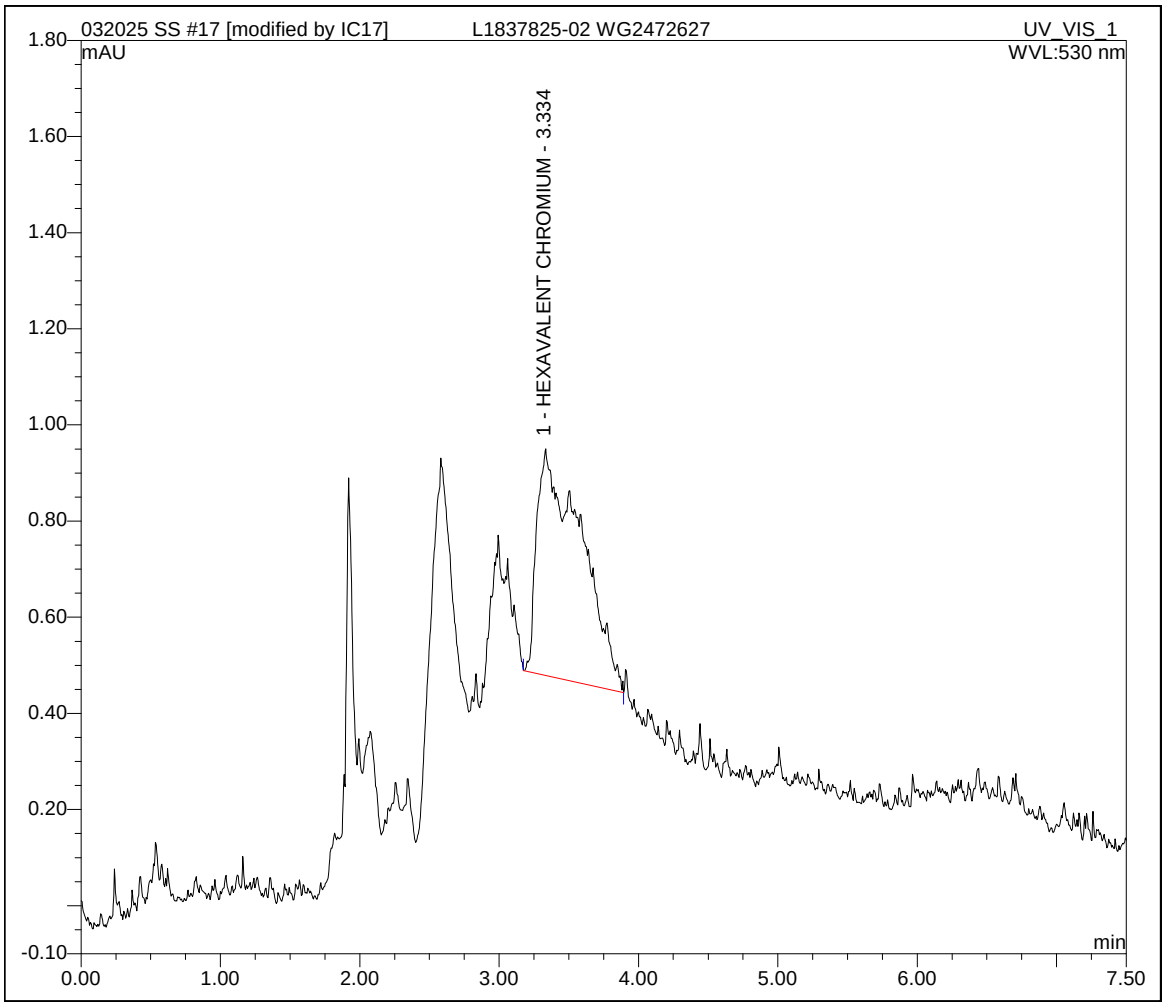
Sample Name:	**IMS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**50.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:15**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



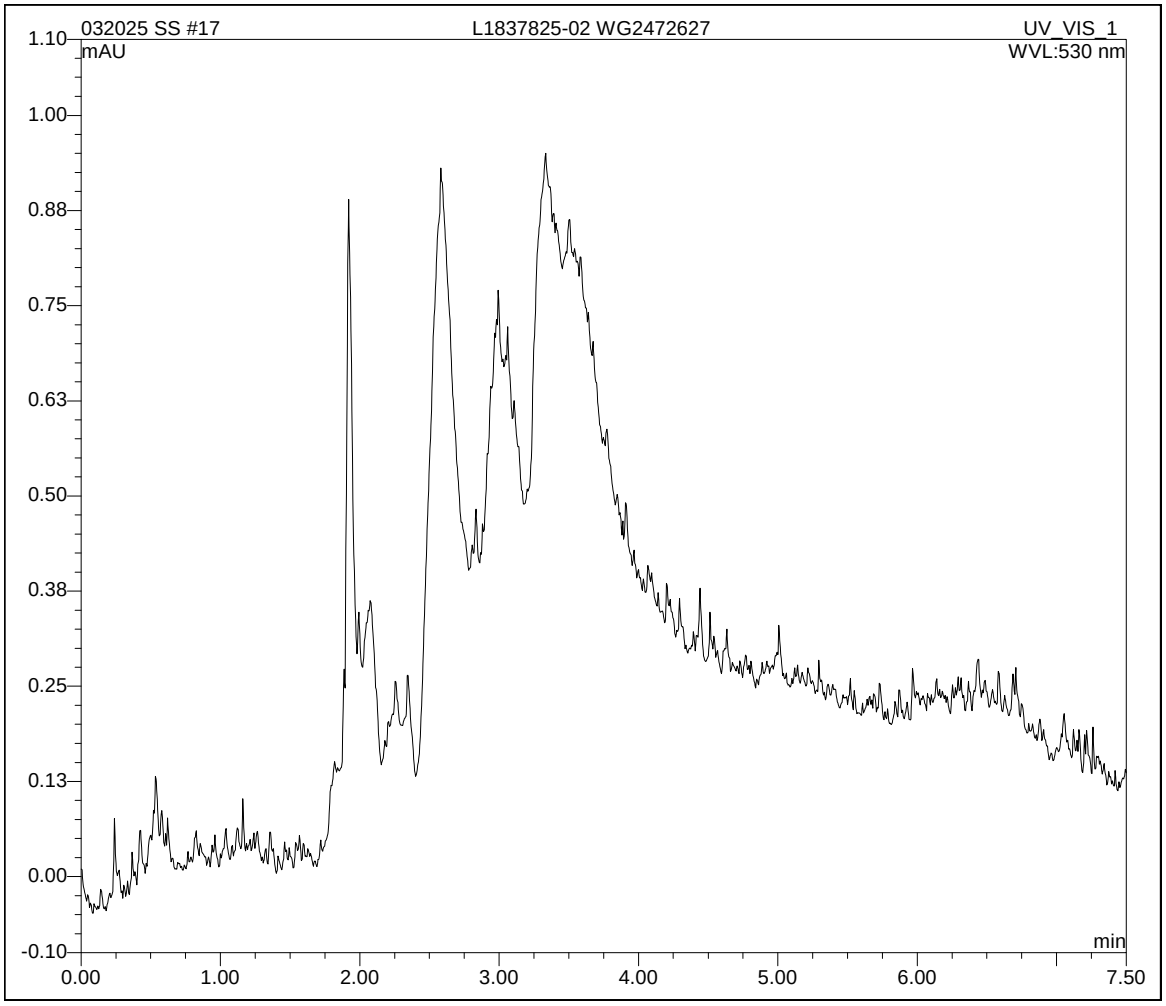
Sample Name:	**L1837825-02 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 07:25**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.33	HEXAVALENT CHROMIUM	BMB*	0.175	0.471	0.0005
		TOTAL:		0.18	0.47	0.00



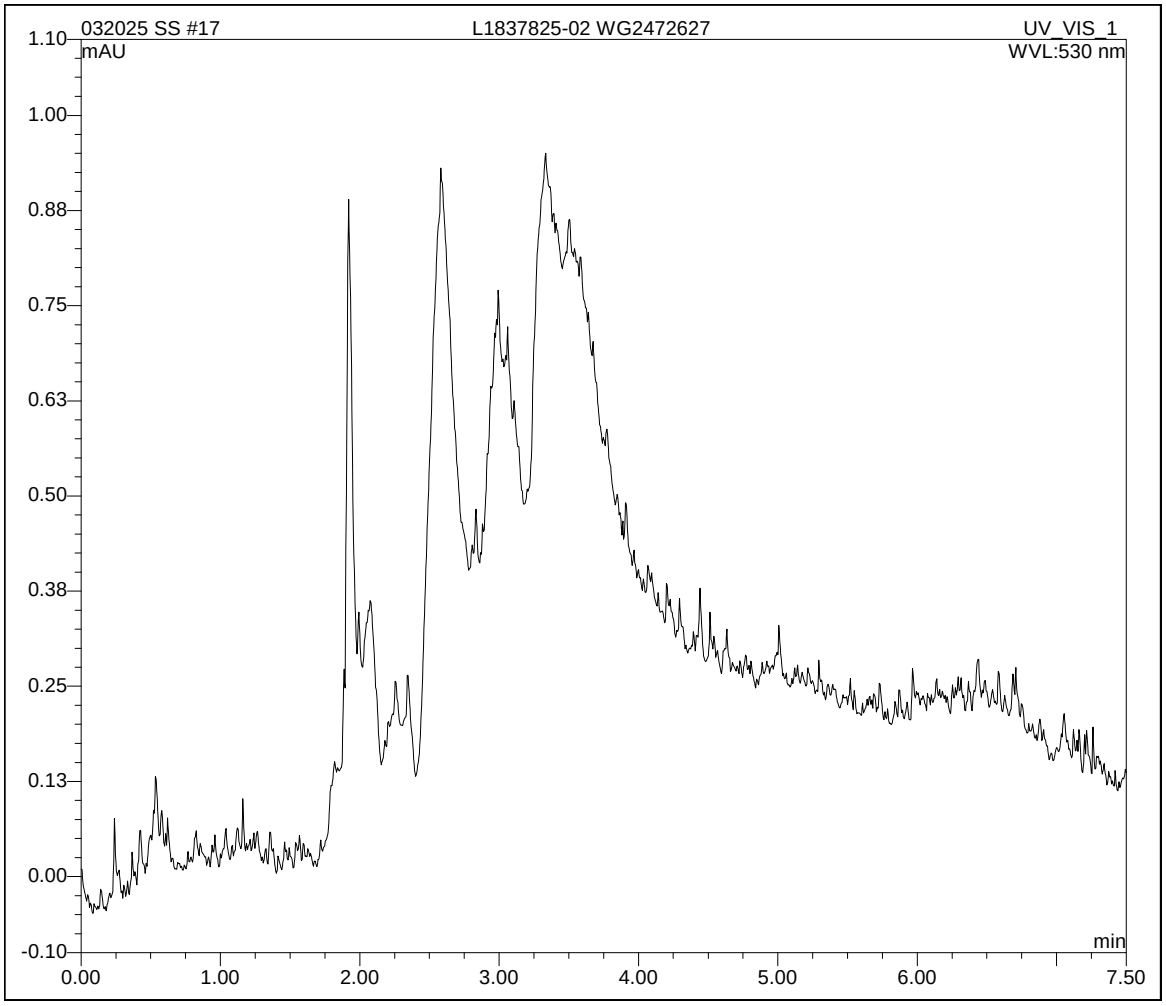
Sample Name:	**L1837825-02 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:25**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



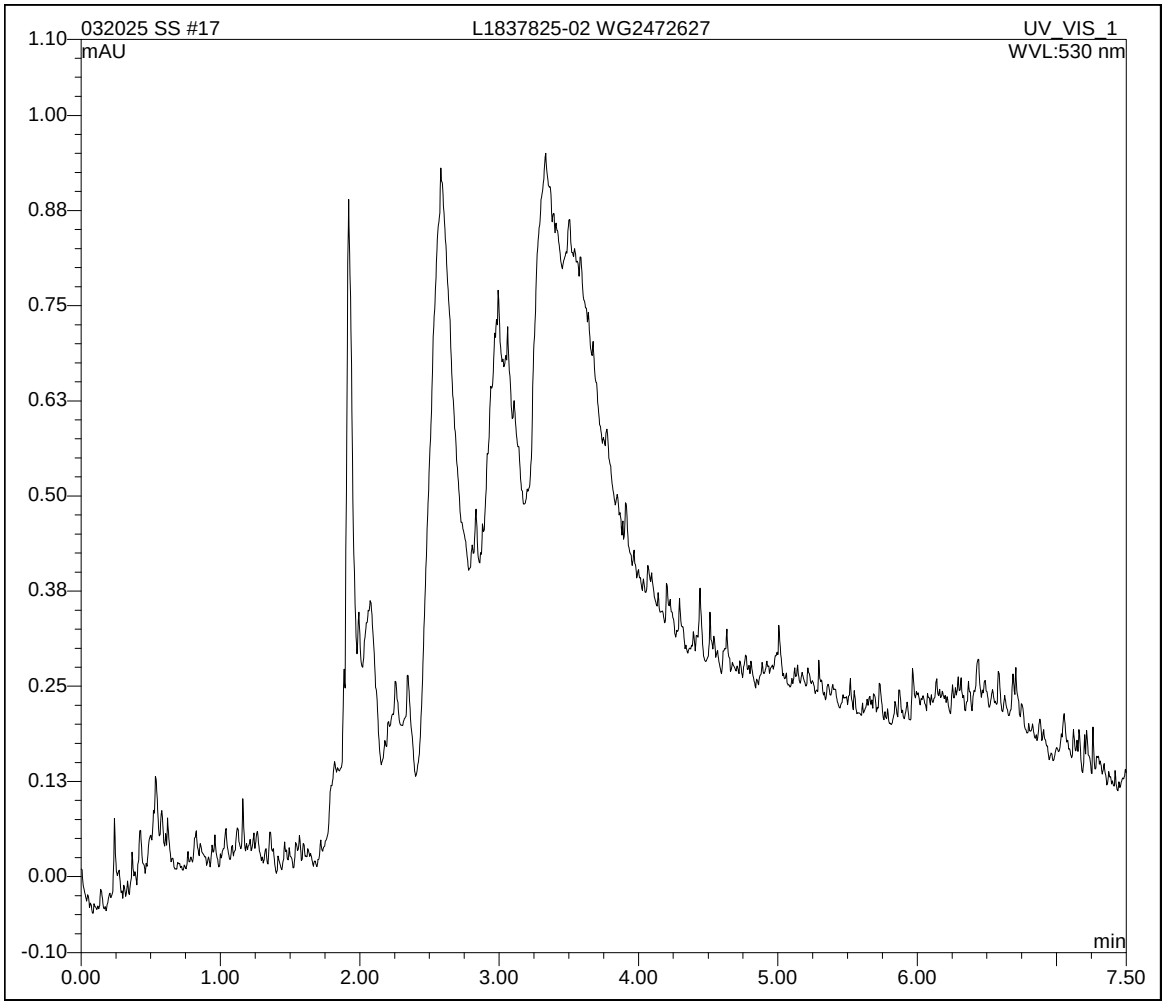
Sample Name:	**L1837825-02 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:25**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



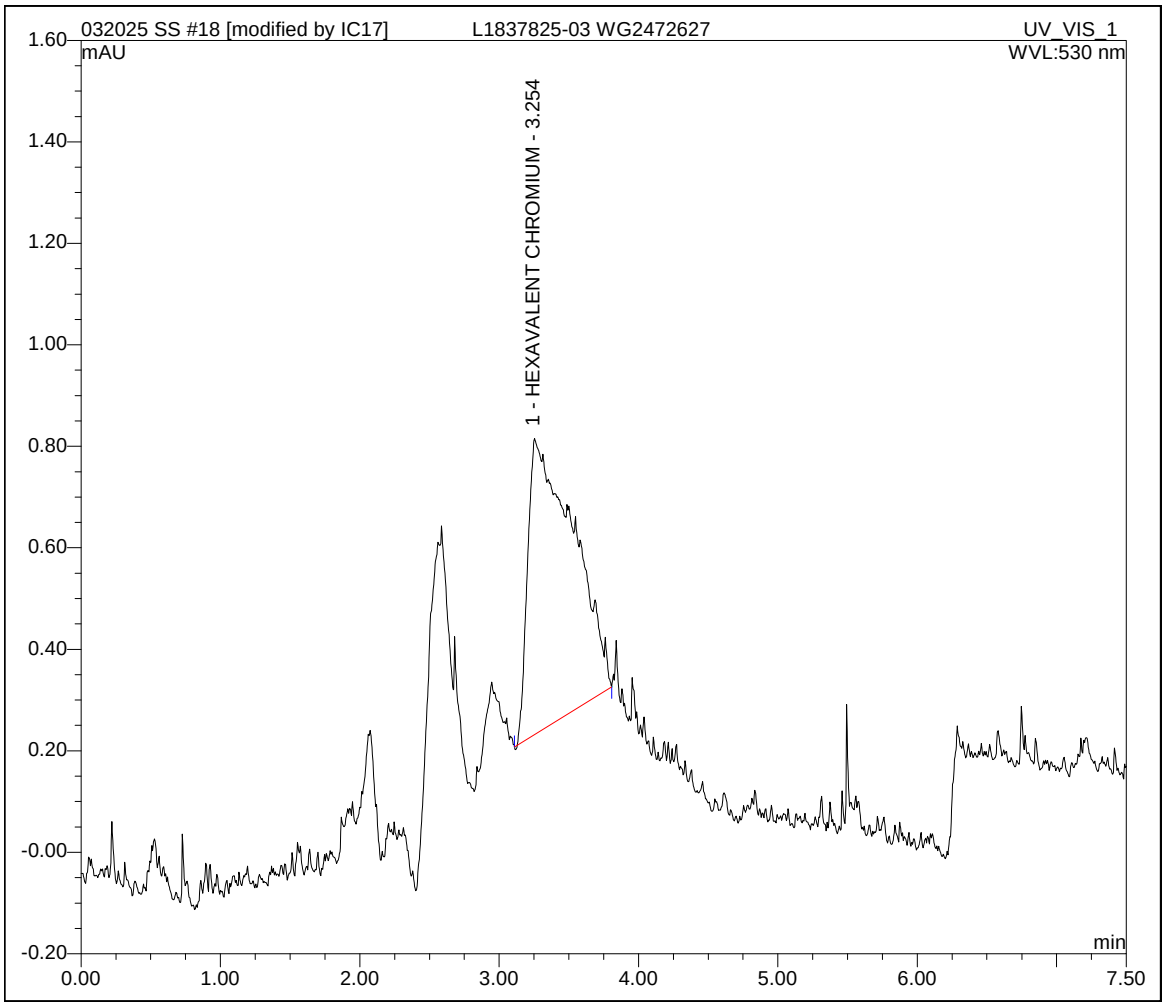
Sample Name:	**L1837825-02 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:25**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



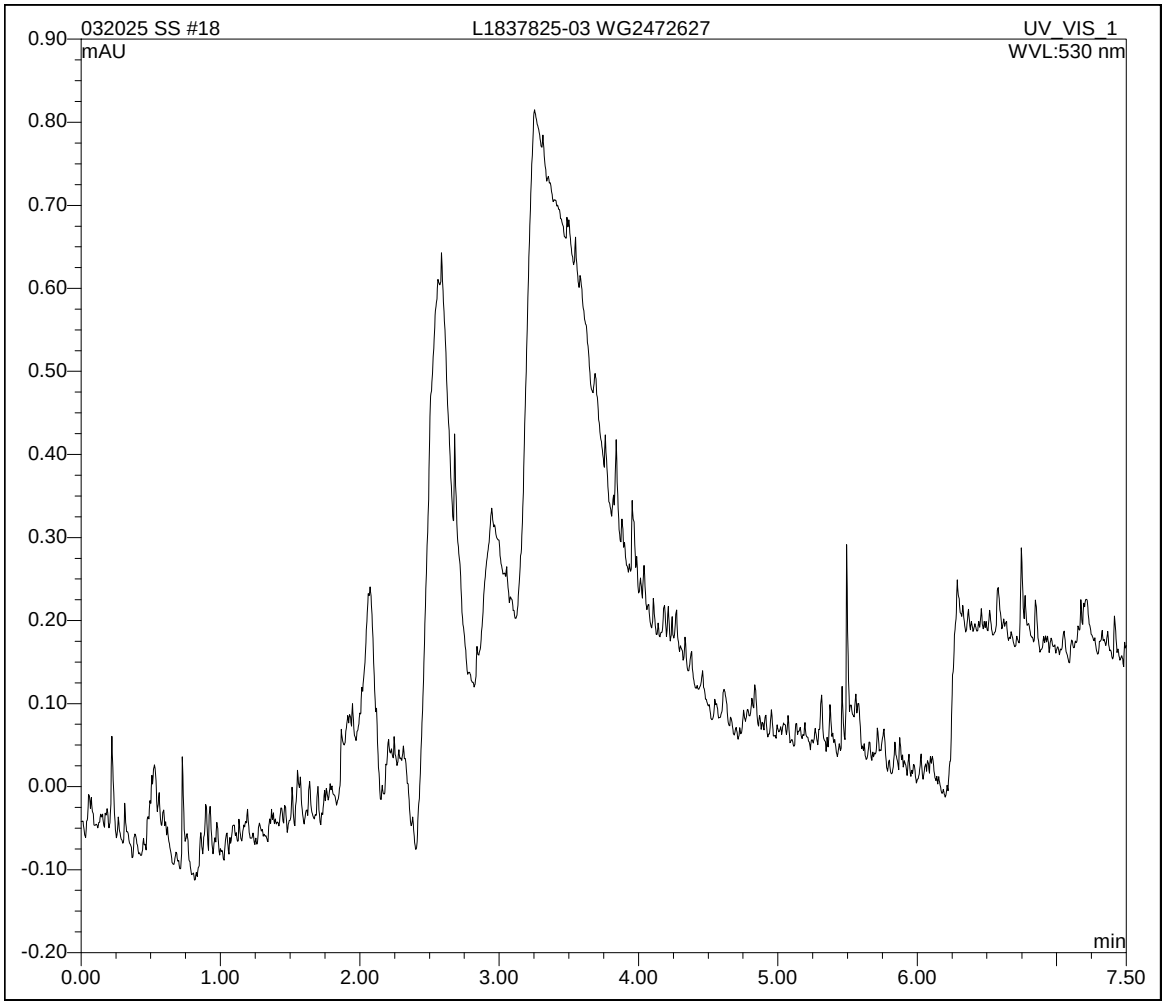
Sample Name:	**L1837825-03 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 07:36**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.25	HEXAVALENT CHROMIUM	BMB*	0.216	0.584	0.0009
		TOTAL:		0.22	0.58	0.00



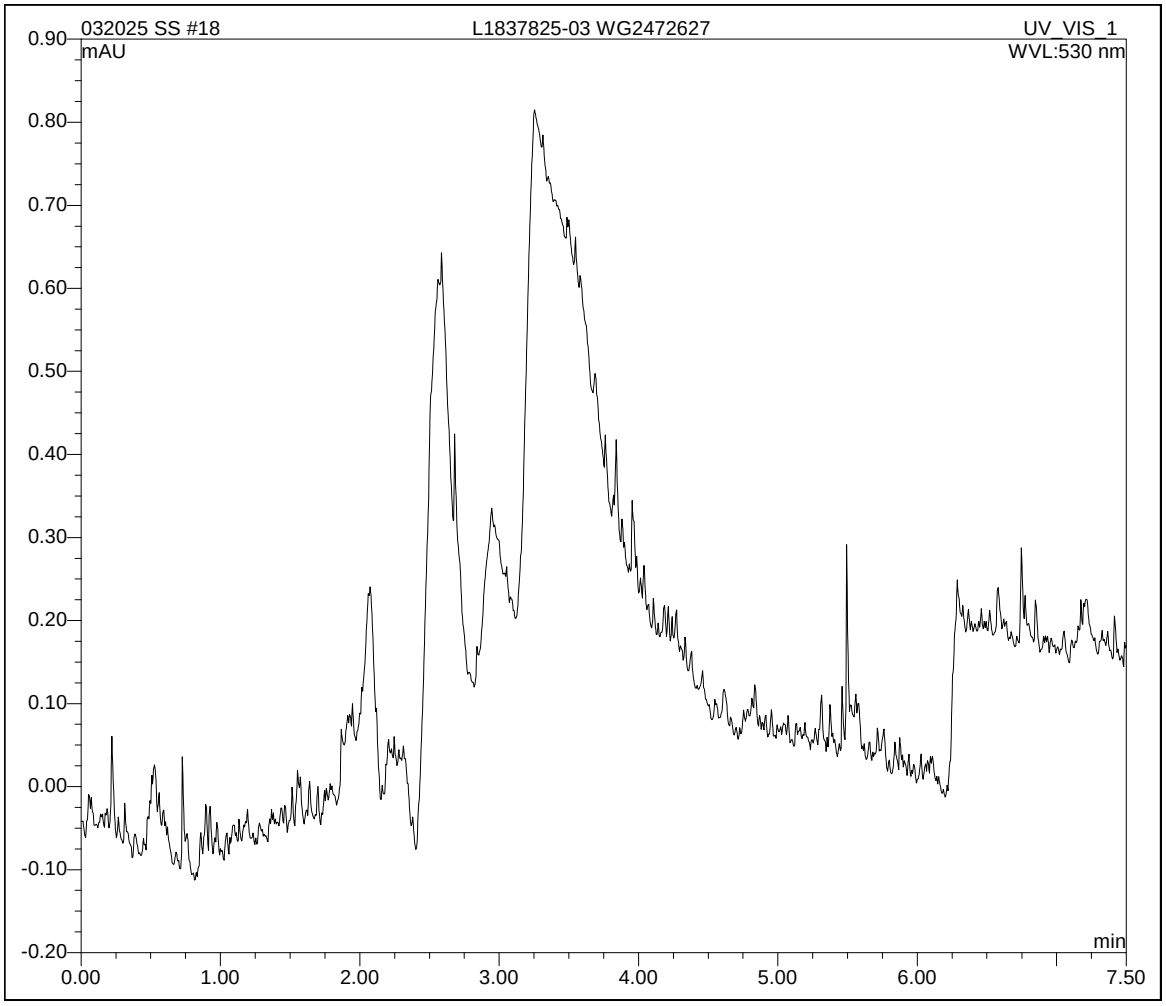
Sample Name:	**L1837825-03 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:36**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



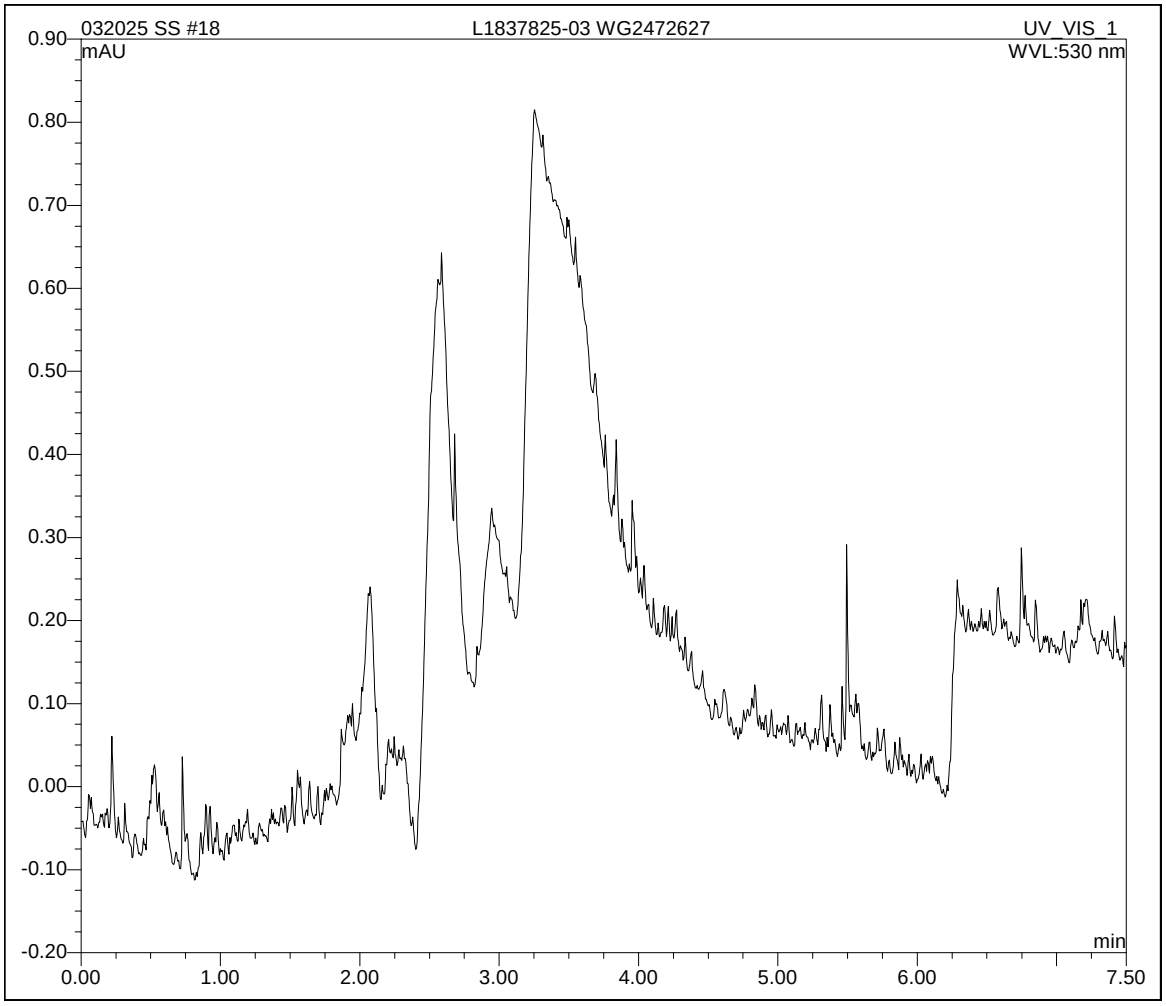
Sample Name:	**L1837825-03 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:36**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



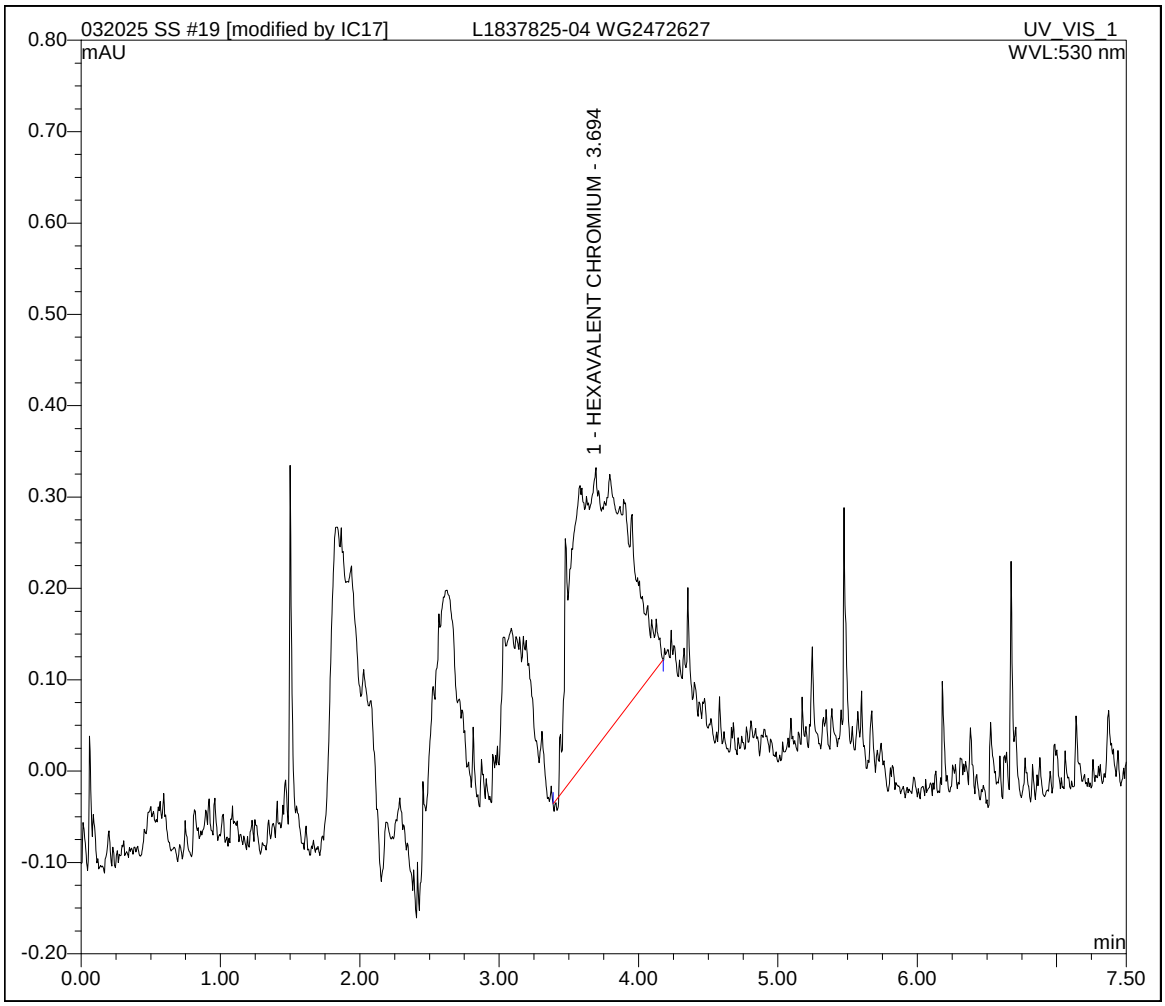
Sample Name:	**L1837825-03 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:36**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



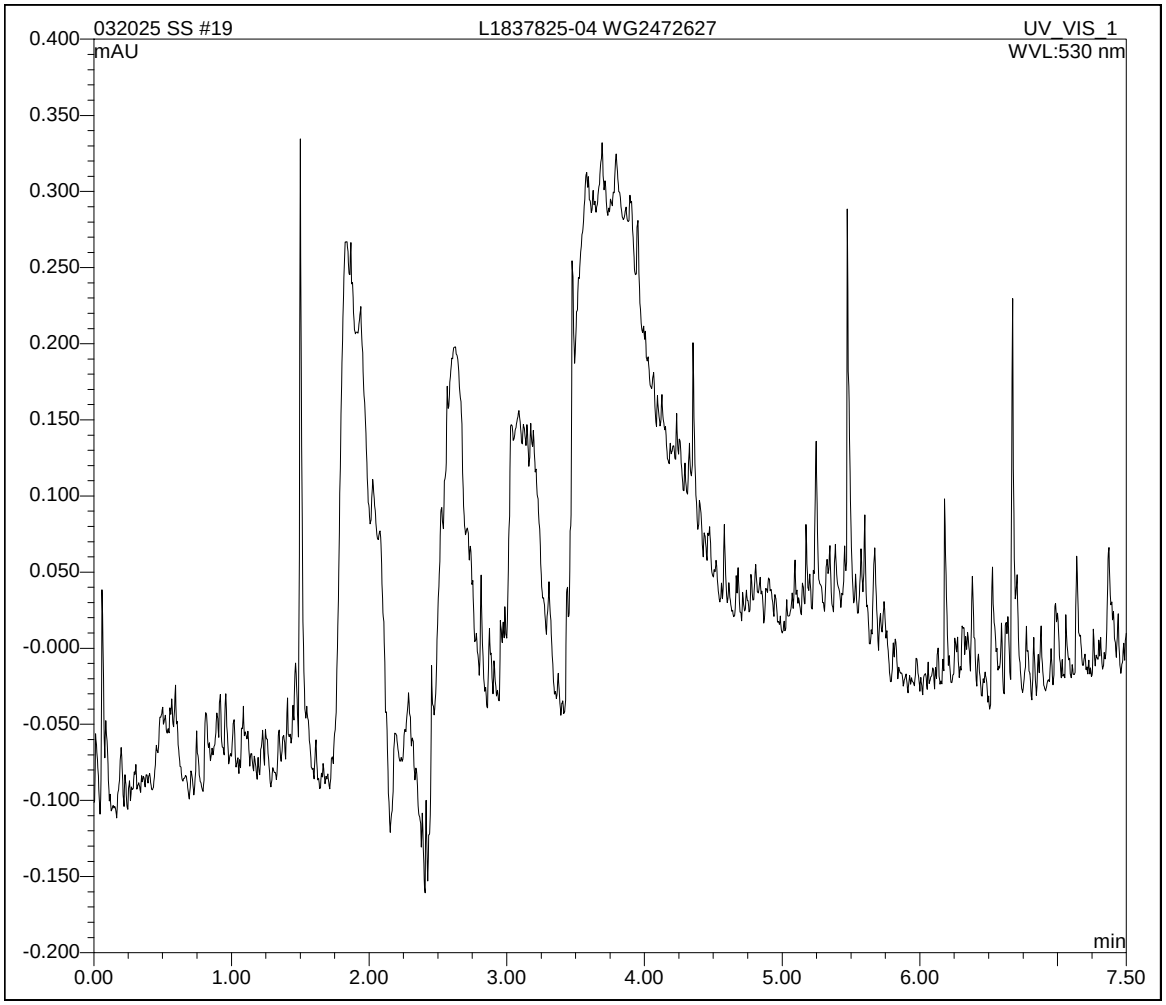
Sample Name:	**L1837825-04 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 07:46**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.69	HEXAVALENT CHROMIUM	BMB*	0.142	0.307	0.0002
		TOTAL:		0.14	0.31	0.00



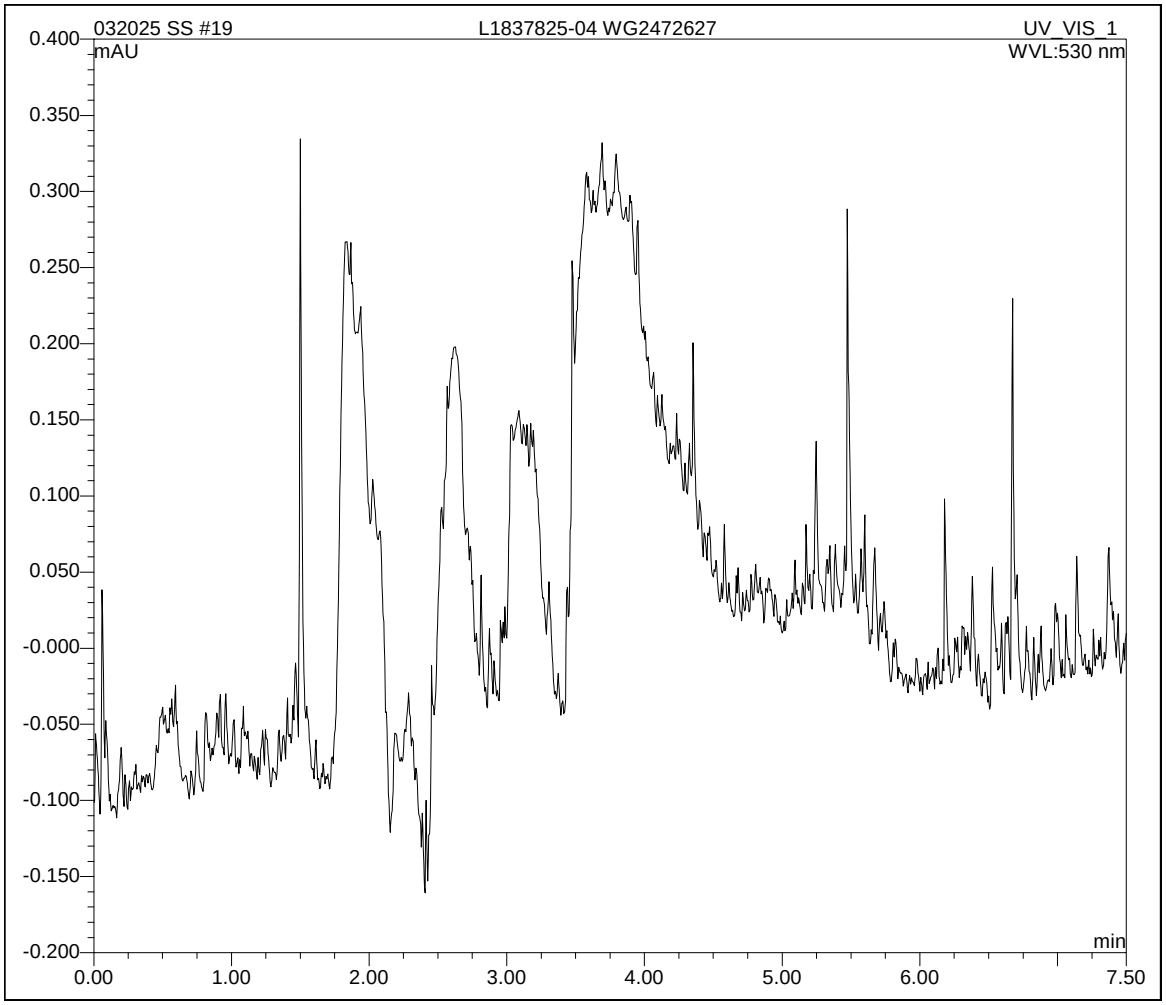
Sample Name:	**L1837825-04 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:46**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



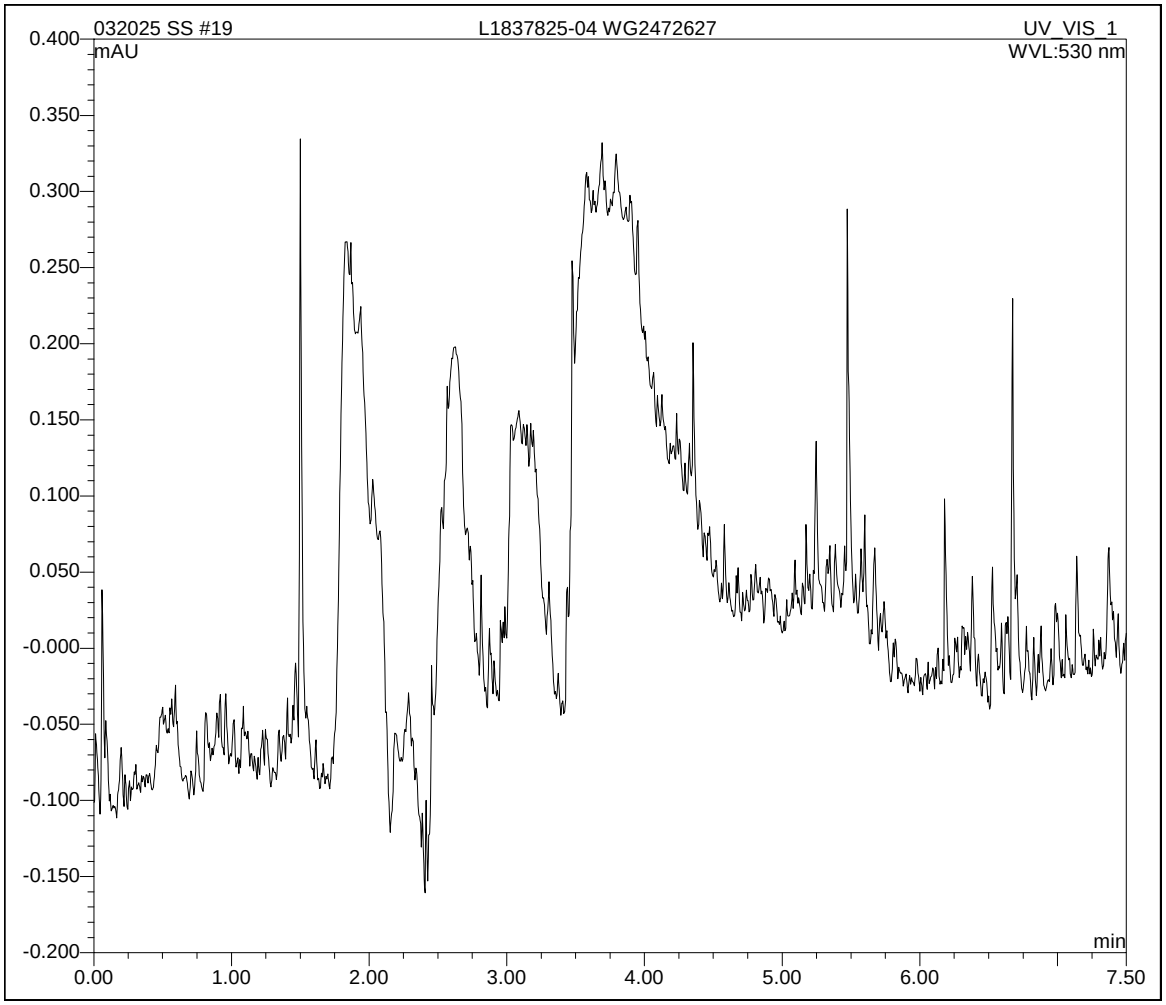
Sample Name:	**L1837825-04 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:46**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



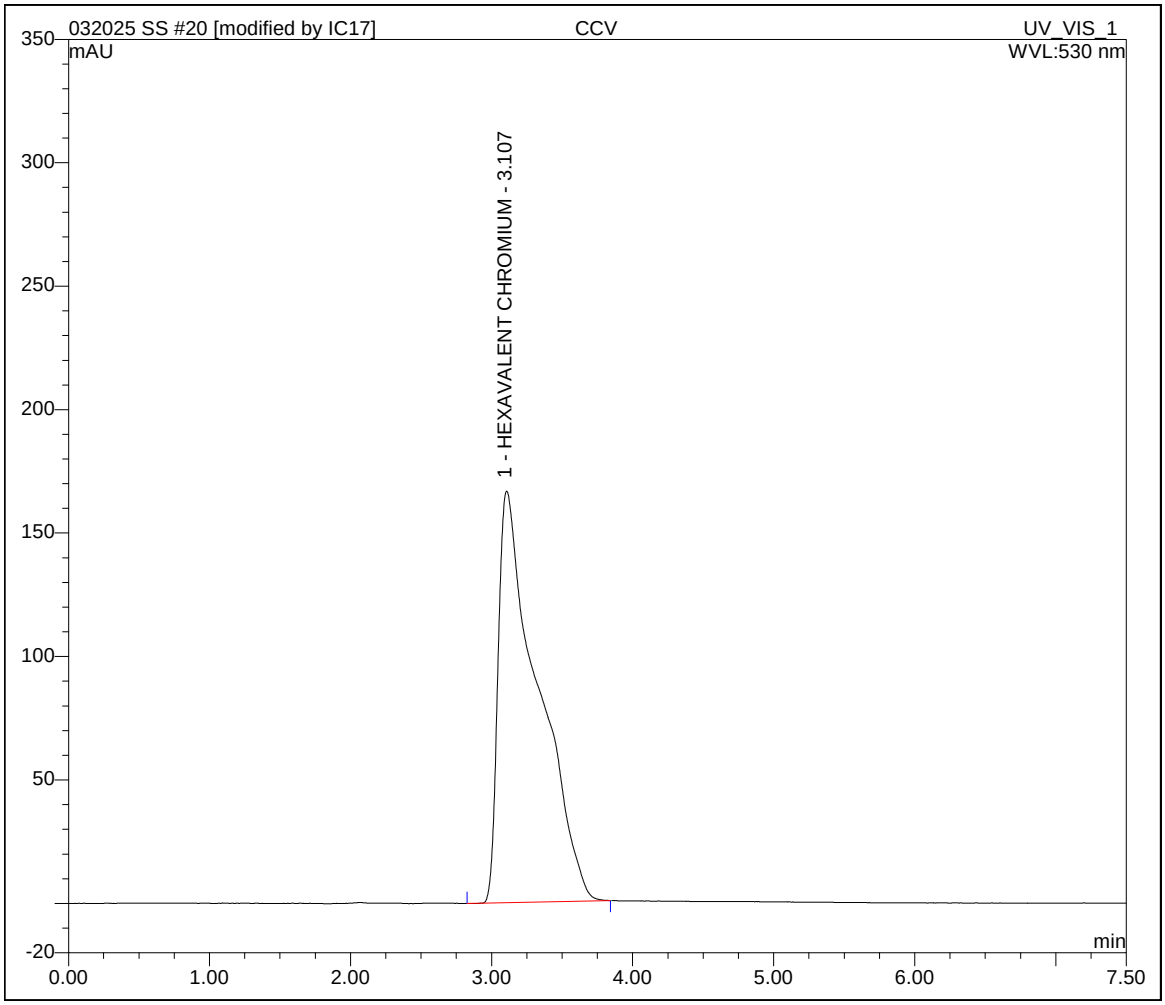
Sample Name:	**L1837825-04 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:46**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



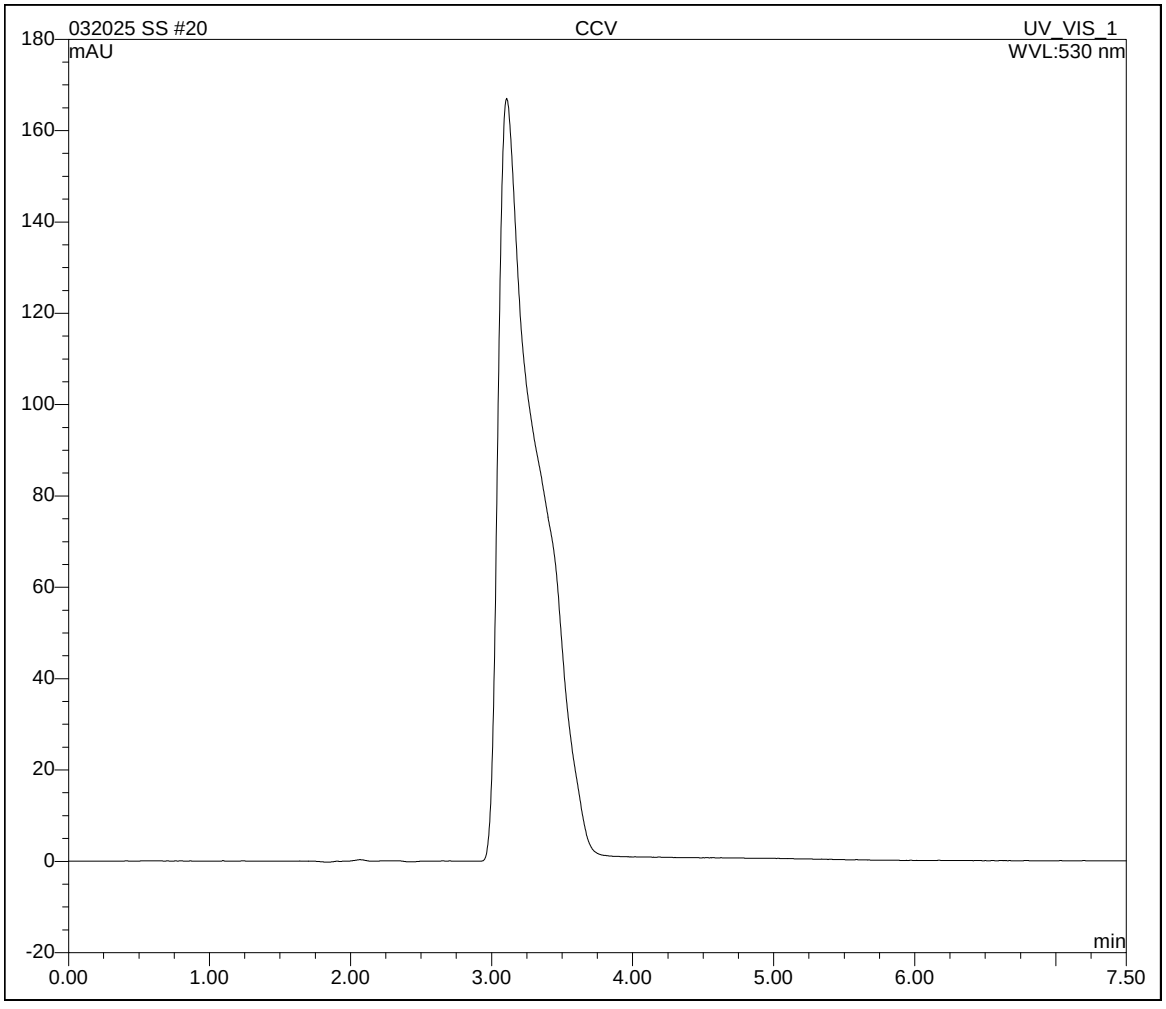
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 07:57**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.11	HEXAVALENT CHROMIUM	BMB*	54.264	166.761	0.5116
		TOTAL:		54.26	166.76	0.51



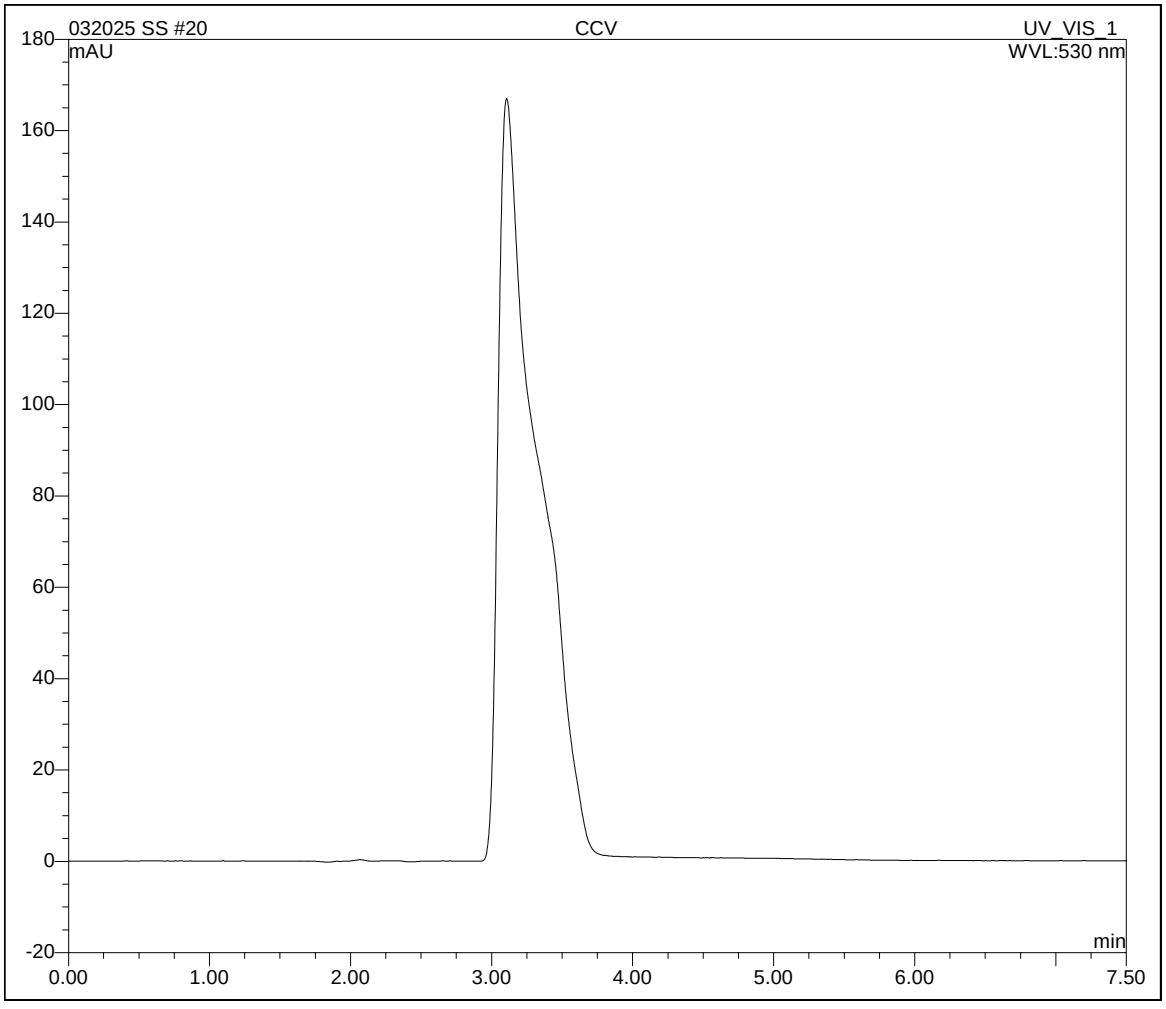
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:57**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



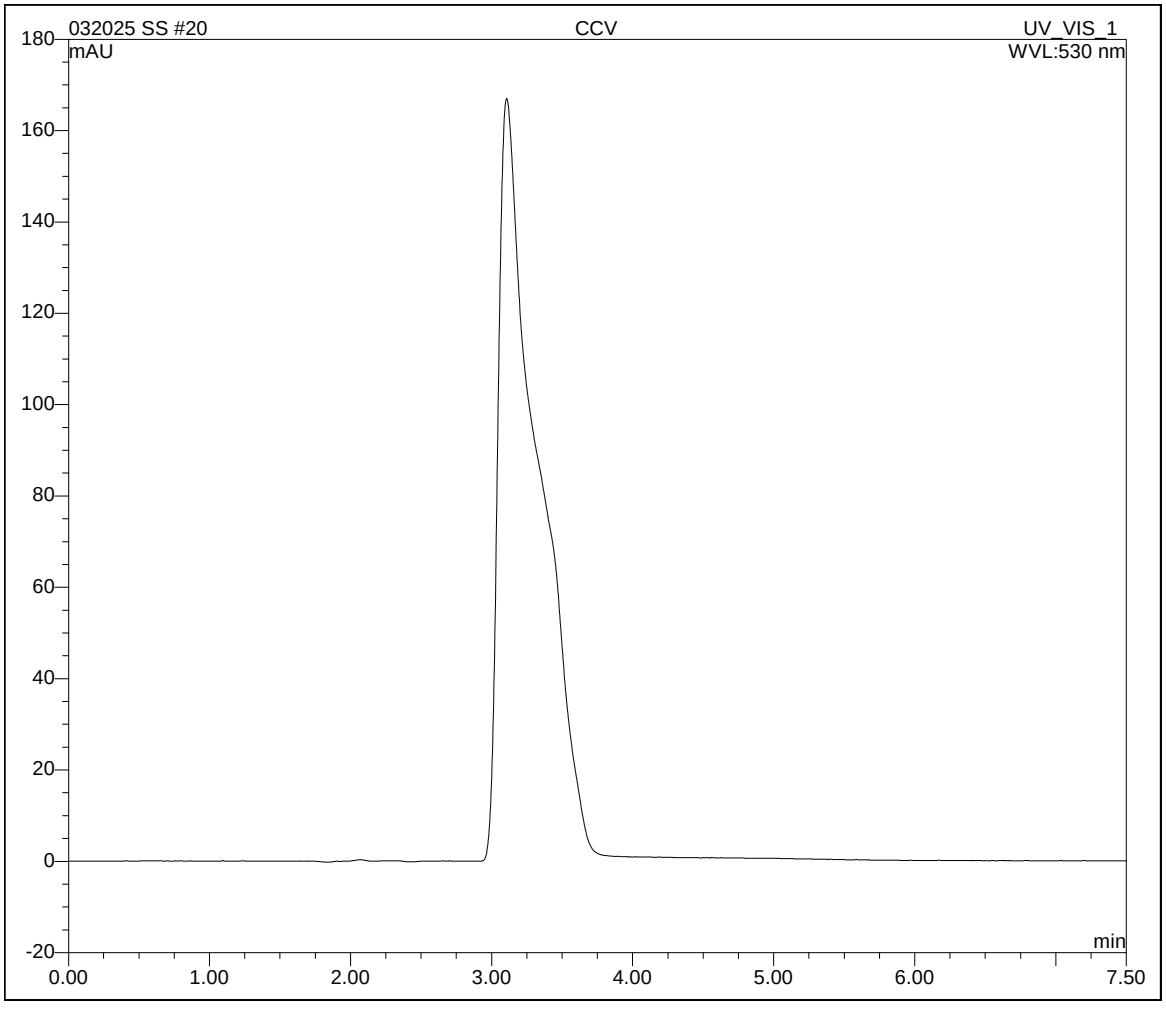
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:57**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



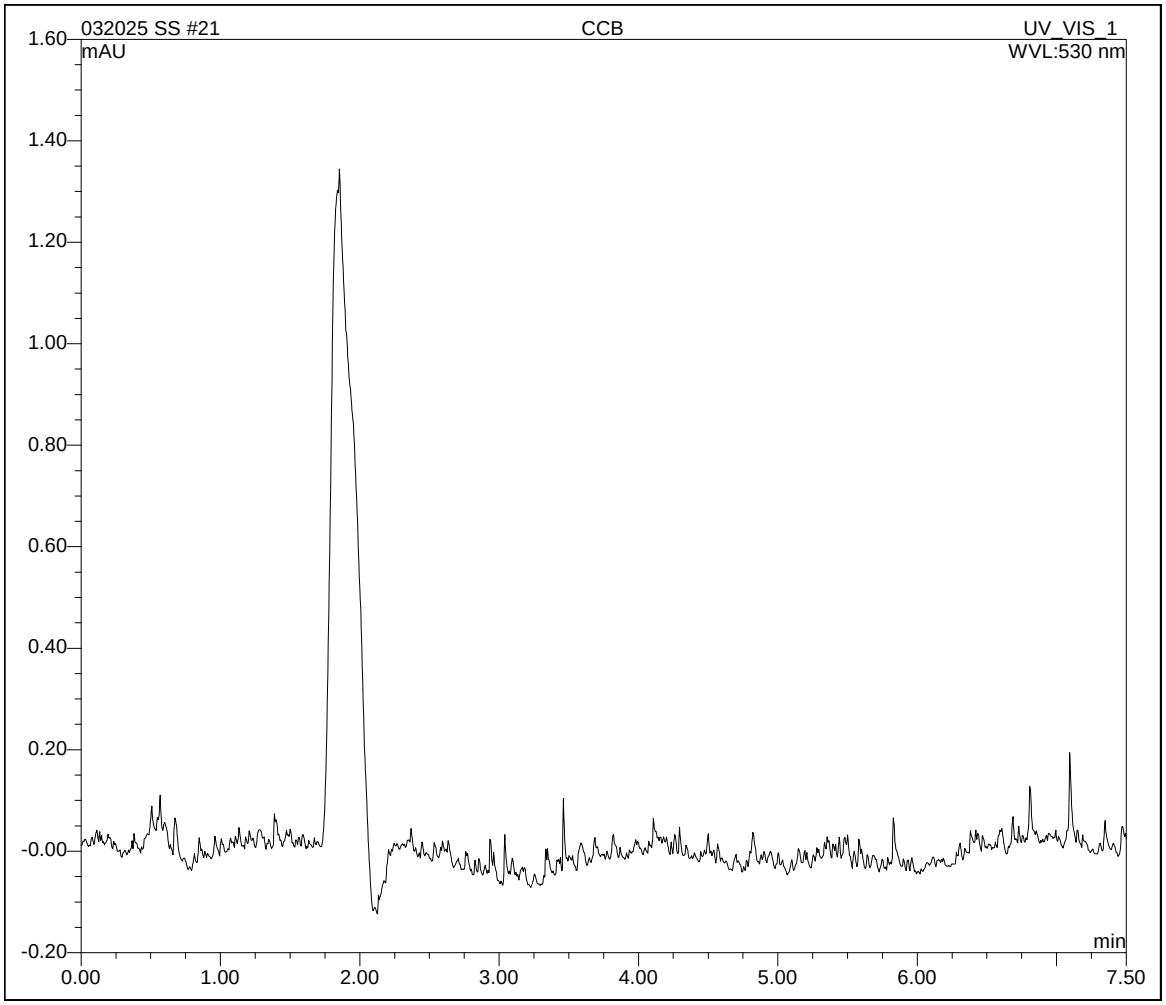
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 07:57**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



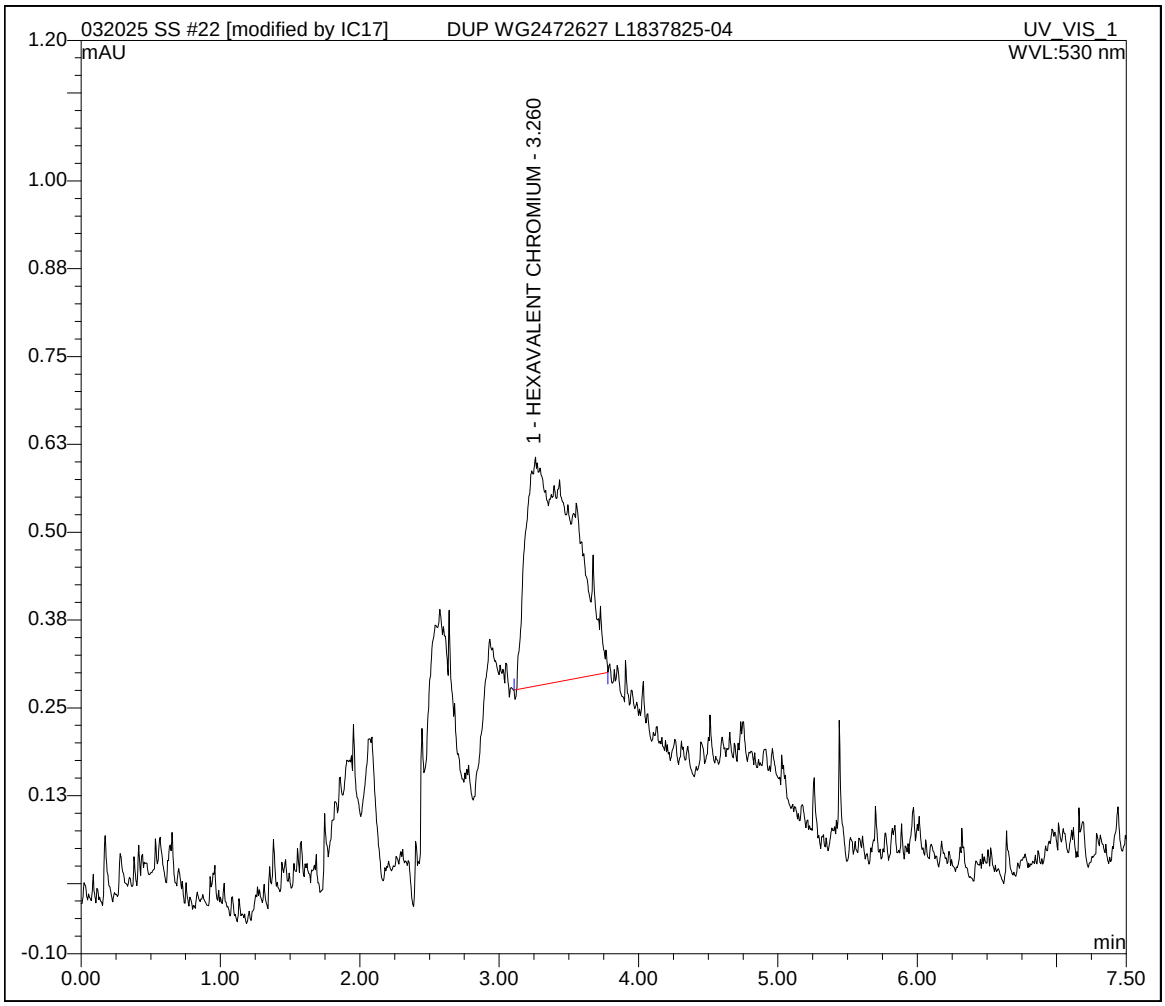
Sample Name:	**CCB**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 08:07**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



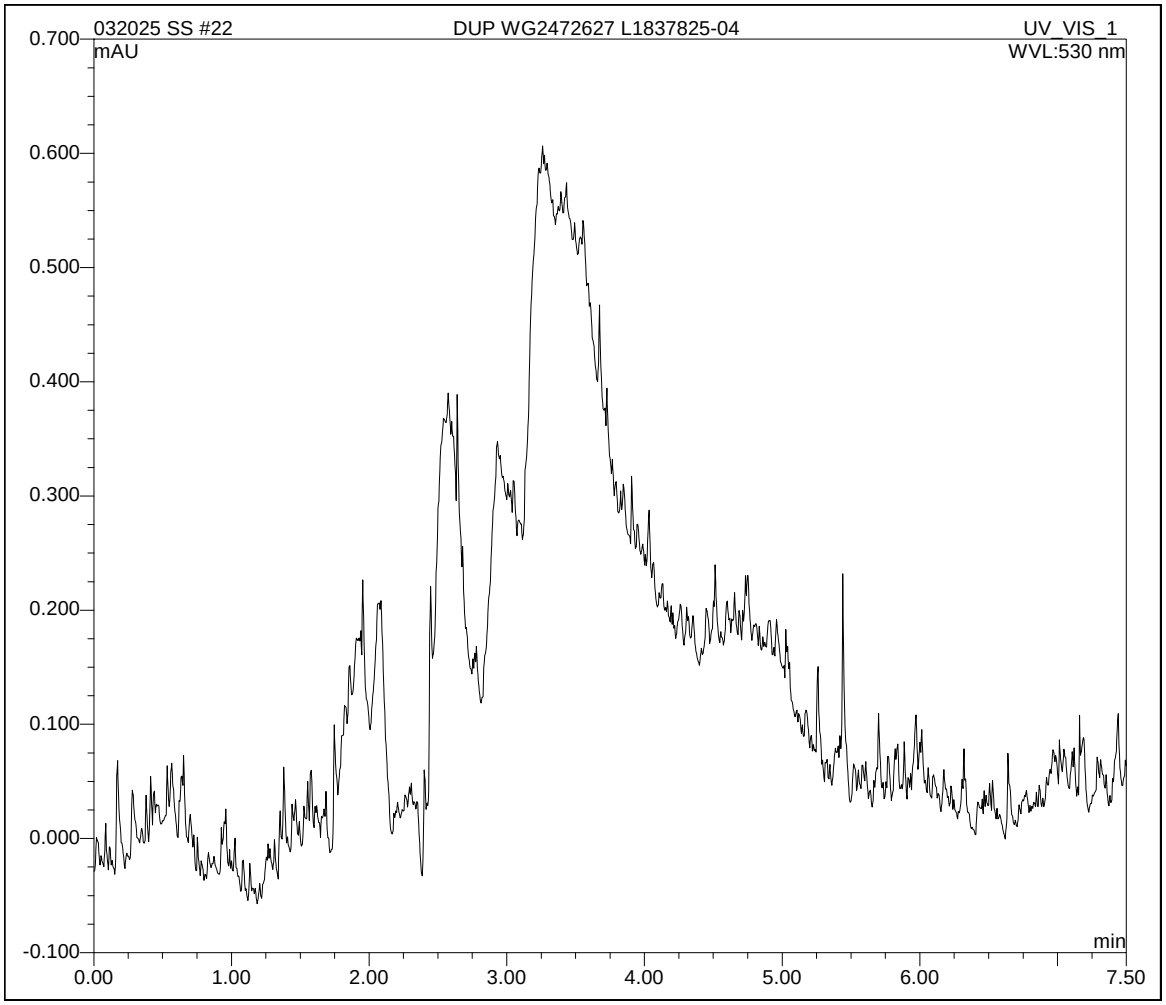
Sample Name:	**DUP WG2472627 L1837825-04**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 08:18**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.26	HEXAVALENT CHROMIUM	BMB*	0.131	0.326	0.0001
		TOTAL:		0.13	0.33	0.00



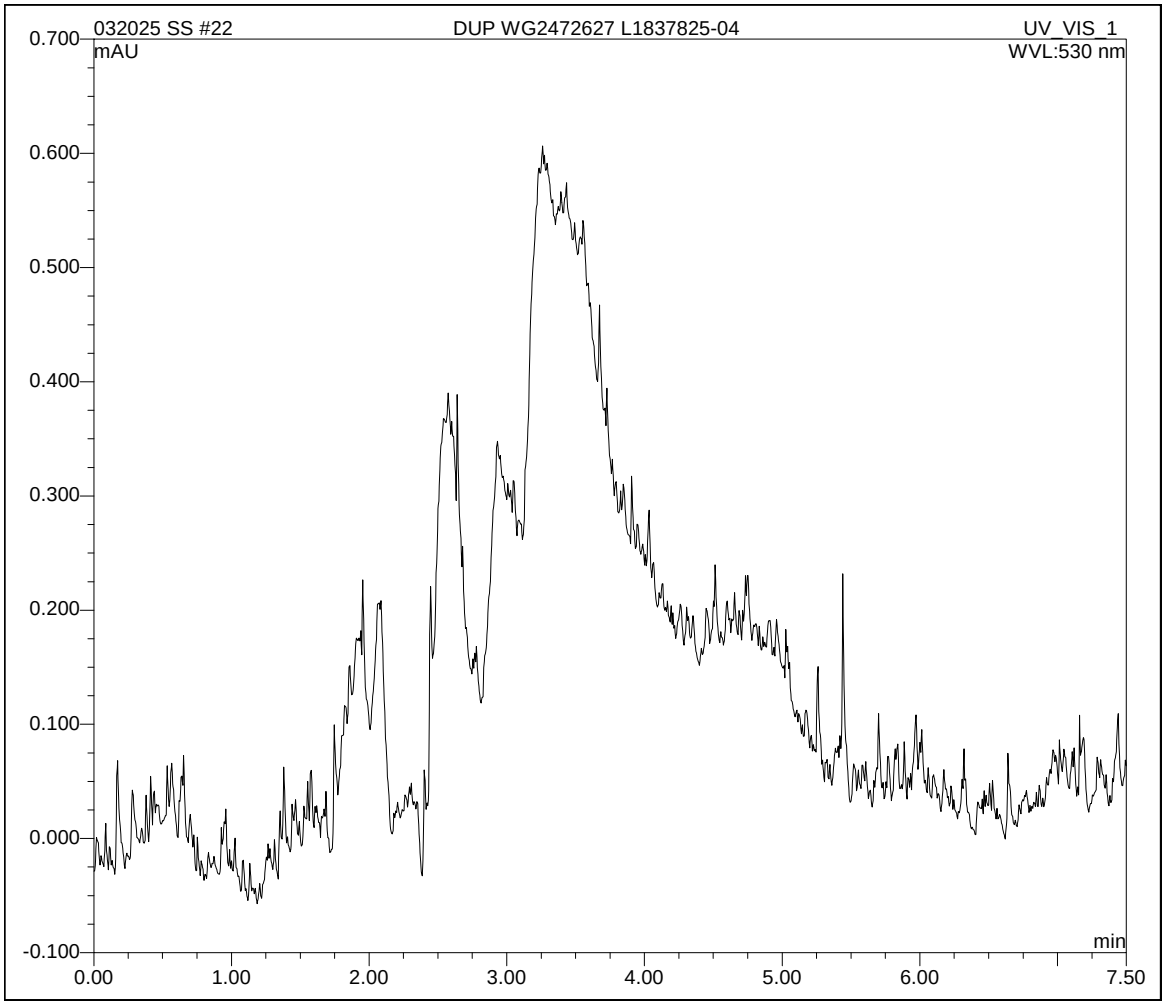
Sample Name:	**DUP WG2472627 L1837825-04**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 08:18**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



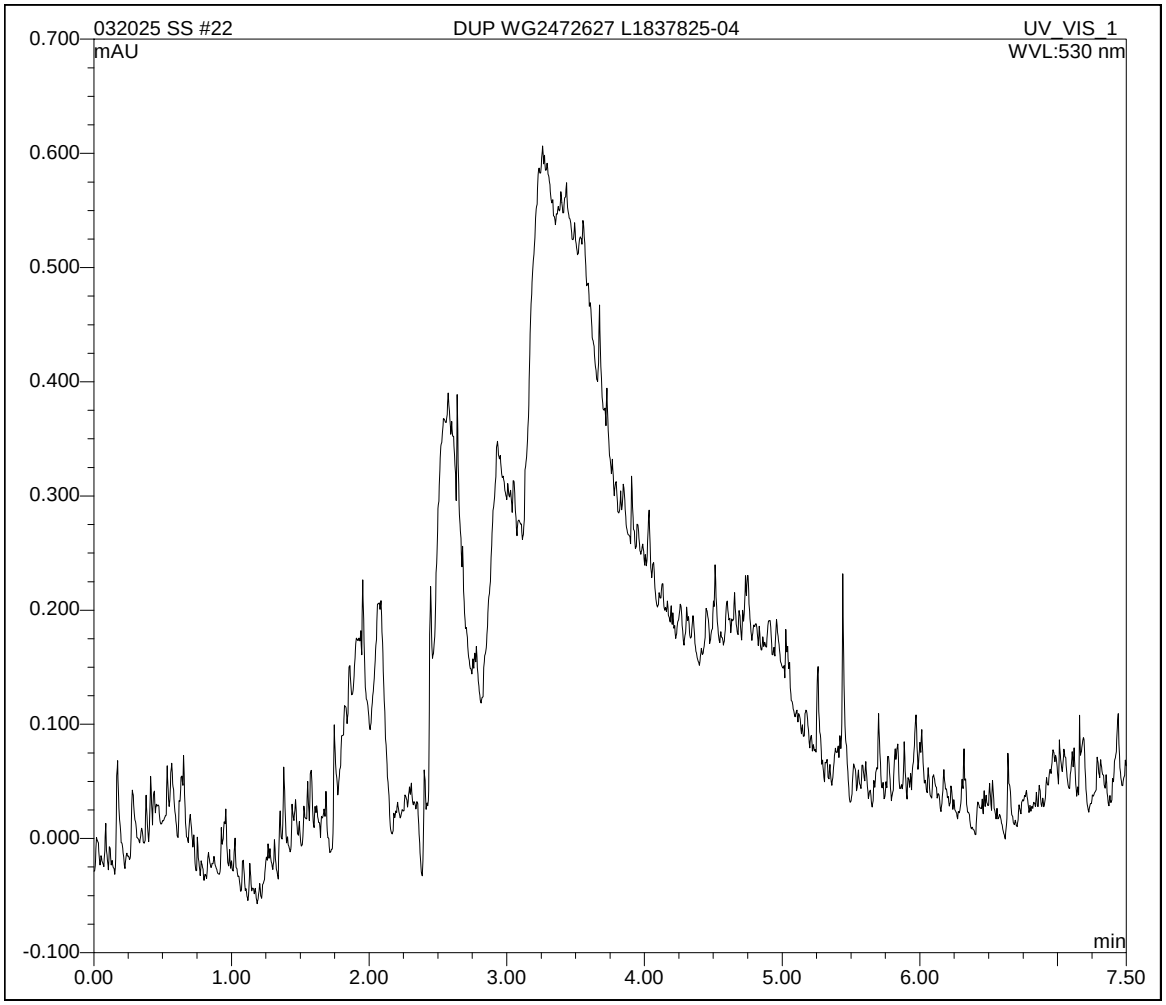
Sample Name:	**DUP WG2472627 L1837825-04**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 08:18**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



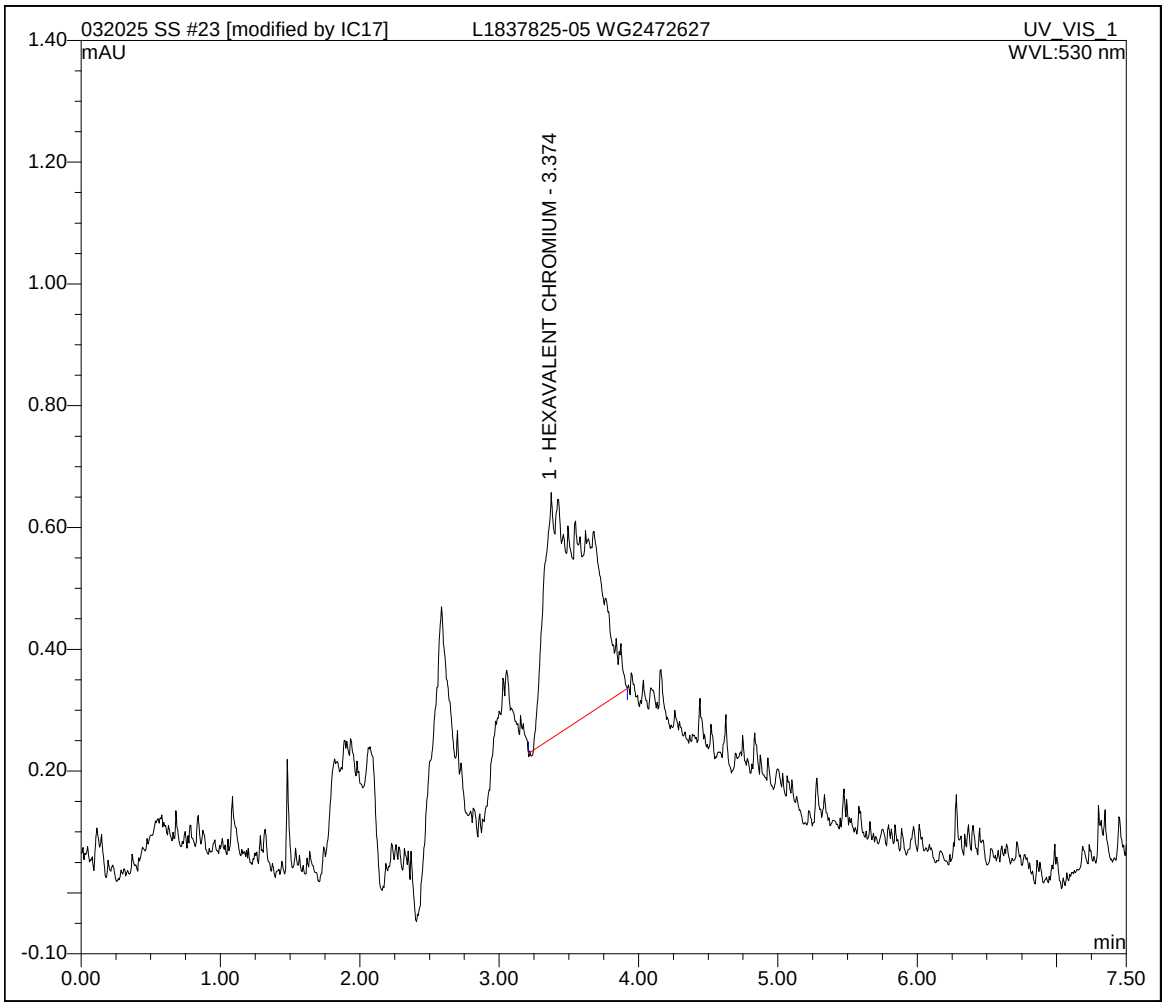
Sample Name:	**DUP WG2472627 L1837825-04**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 08:18**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



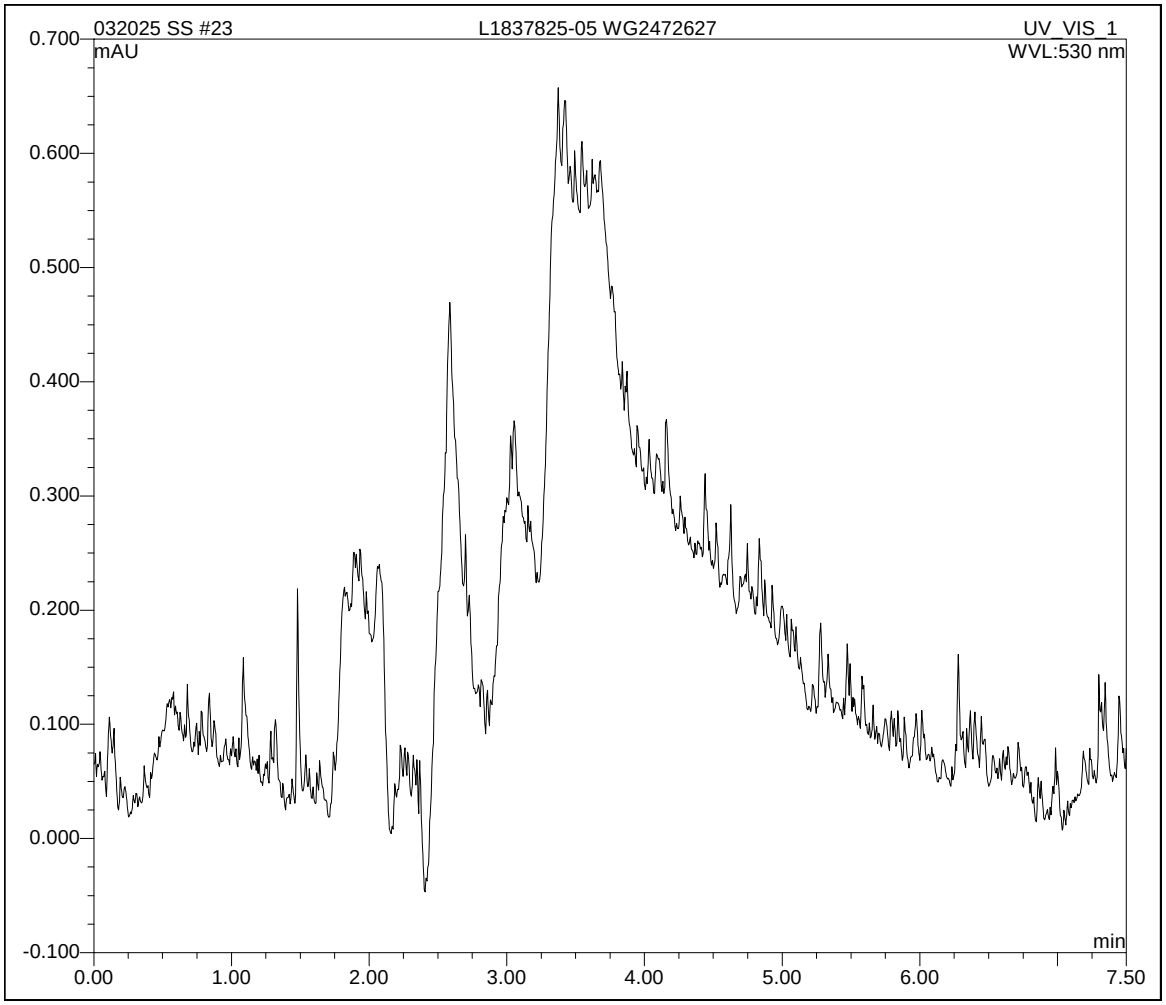
Sample Name:	**L1837825-05 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 08:28**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.37	HEXAVALENT CHROMIUM	BMB*	0.151	0.404	0.0003
		TOTAL:		0.15	0.40	0.00



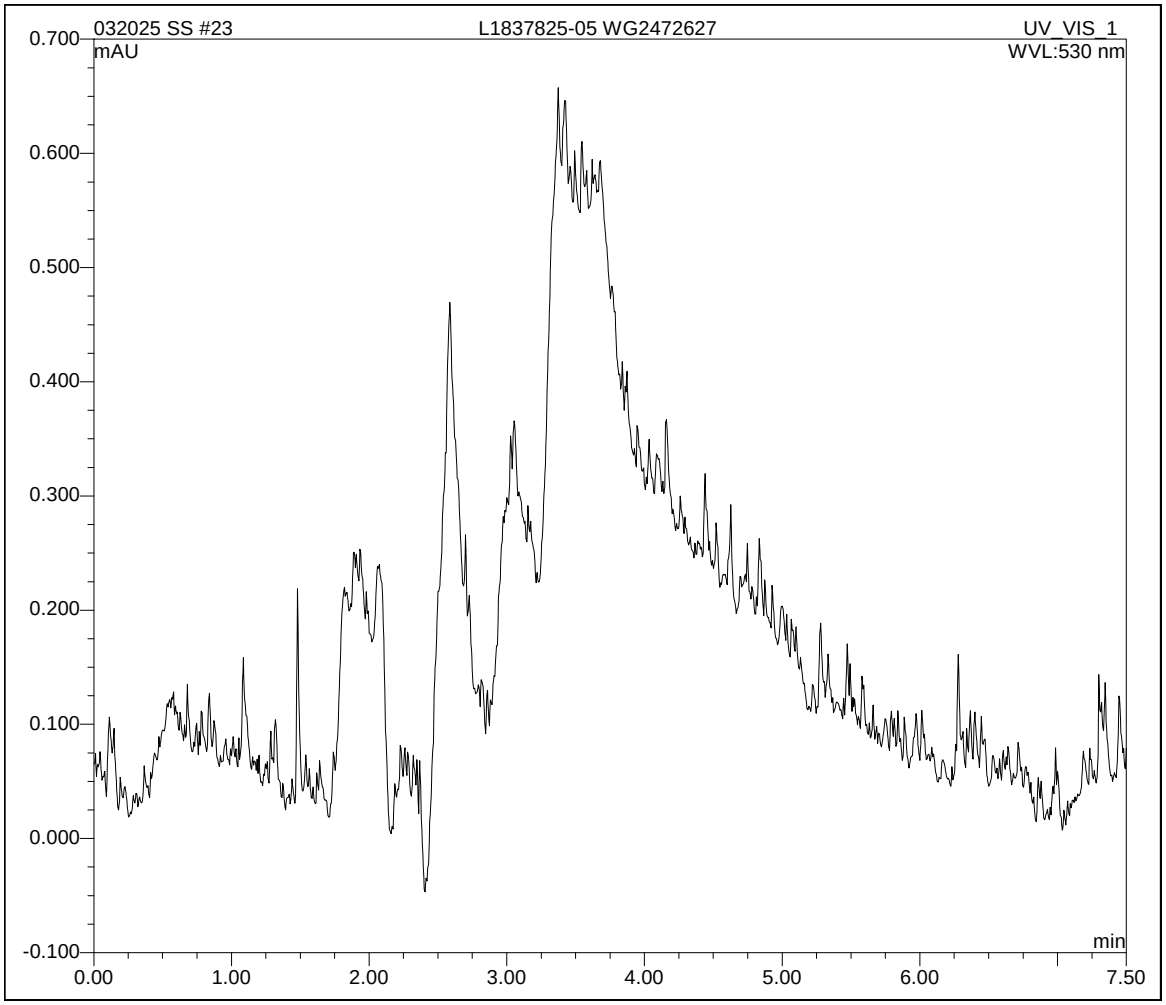
Sample Name:	**L1837825-05 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 08:28**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



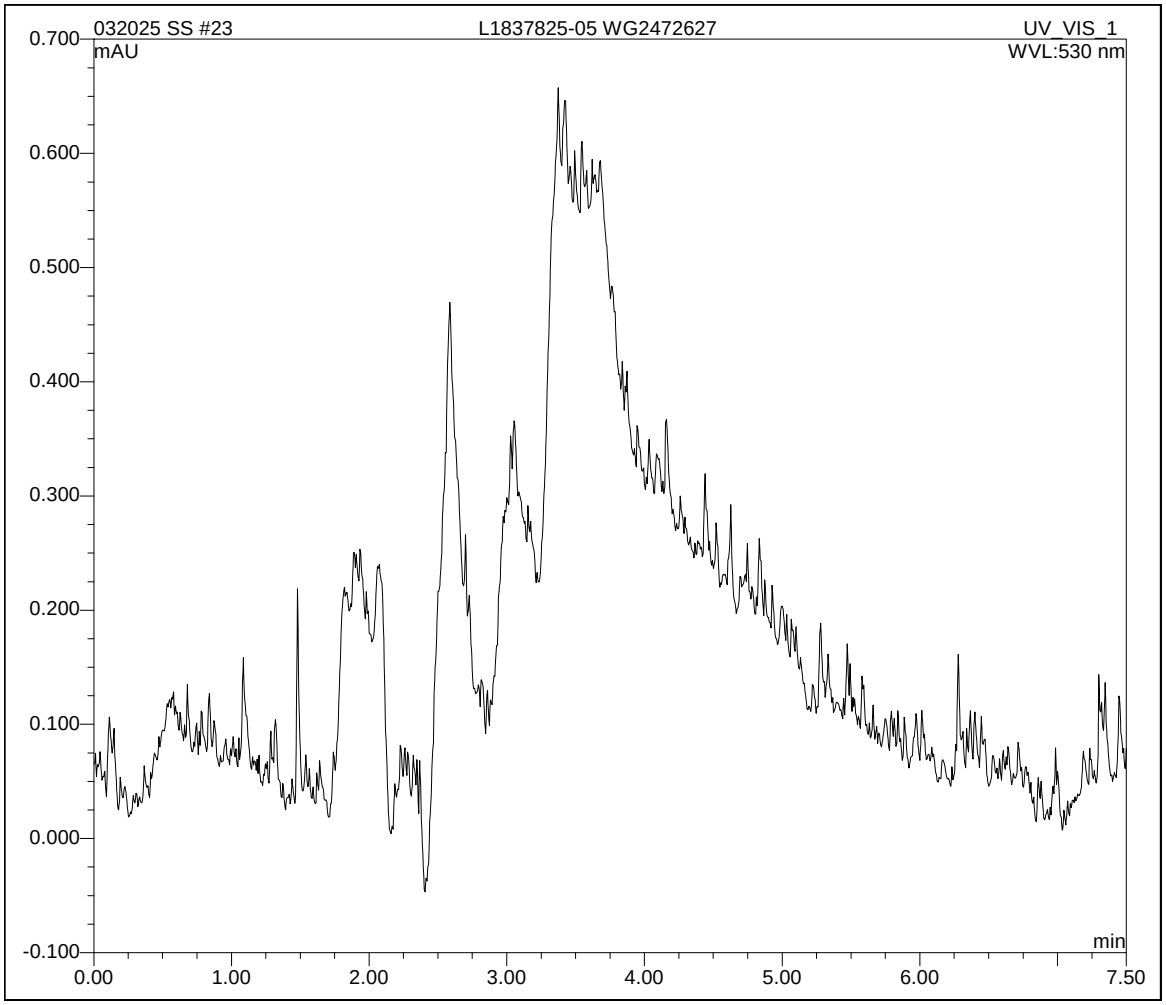
Sample Name:	**L1837825-05 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 08:28**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



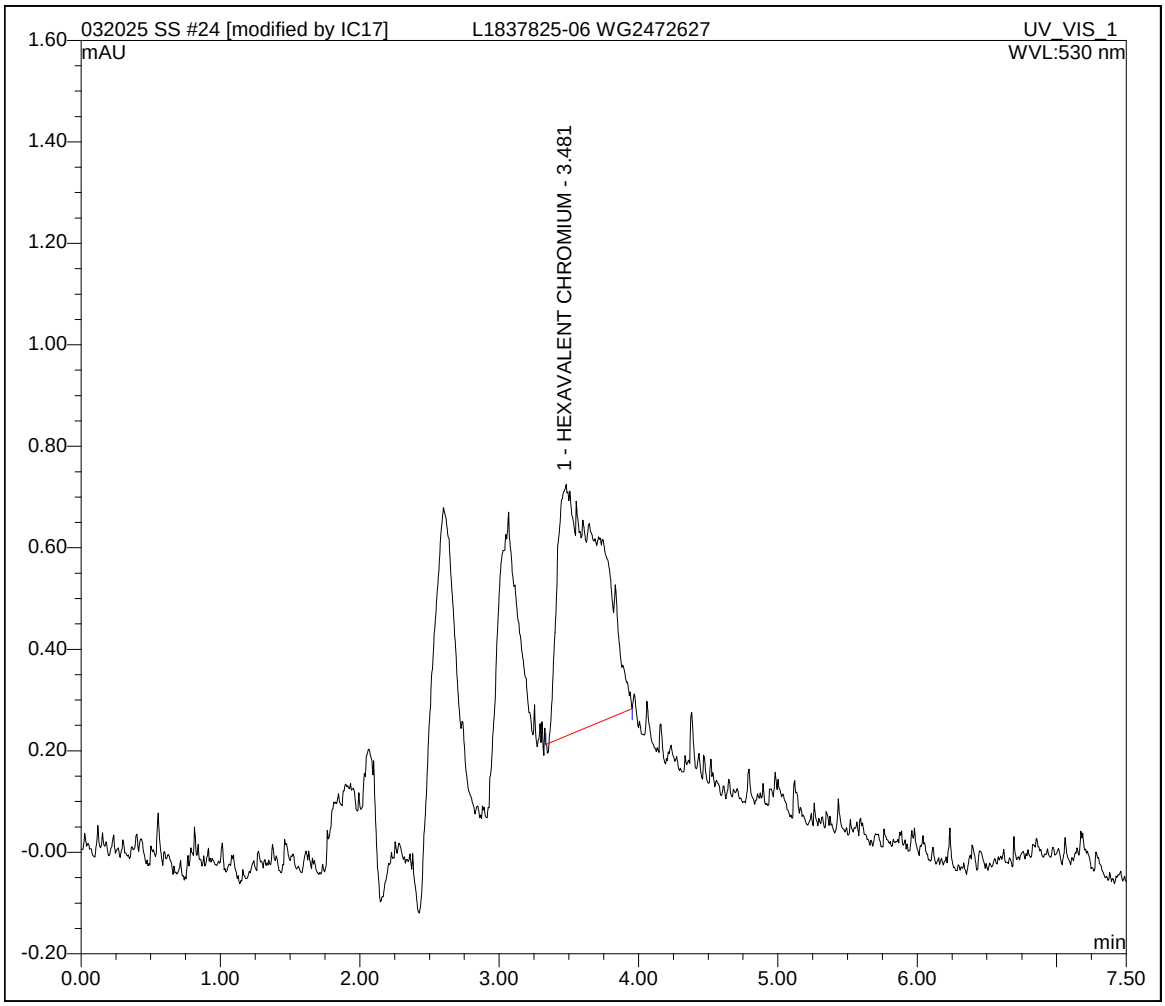
Sample Name:	**L1837825-05 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 08:28**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



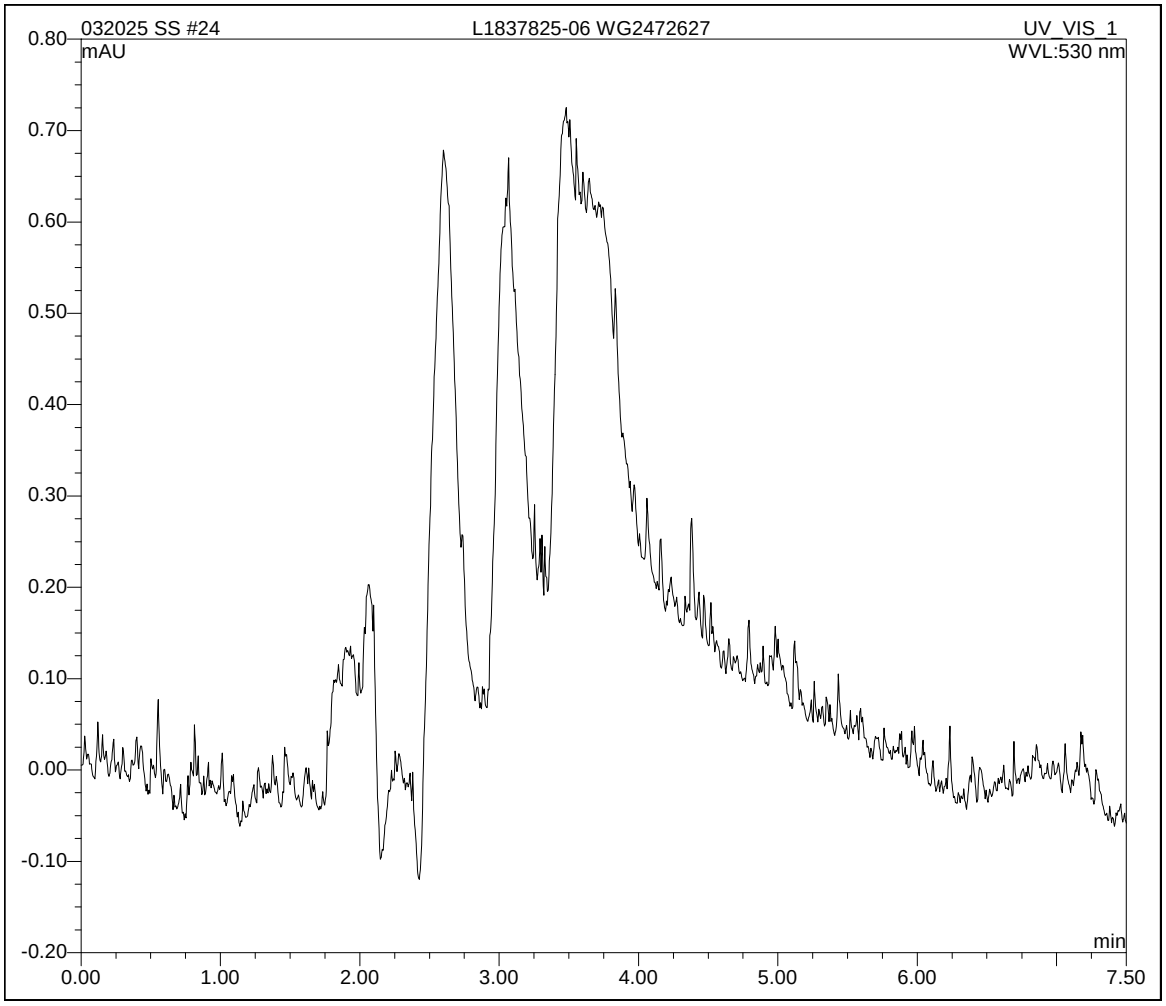
Sample Name:	**L1837825-06 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 08:39**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.48	HEXAVALENT CHROMIUM	BMB*	0.179	0.496	0.0005
		TOTAL:		0.18	0.50	0.00



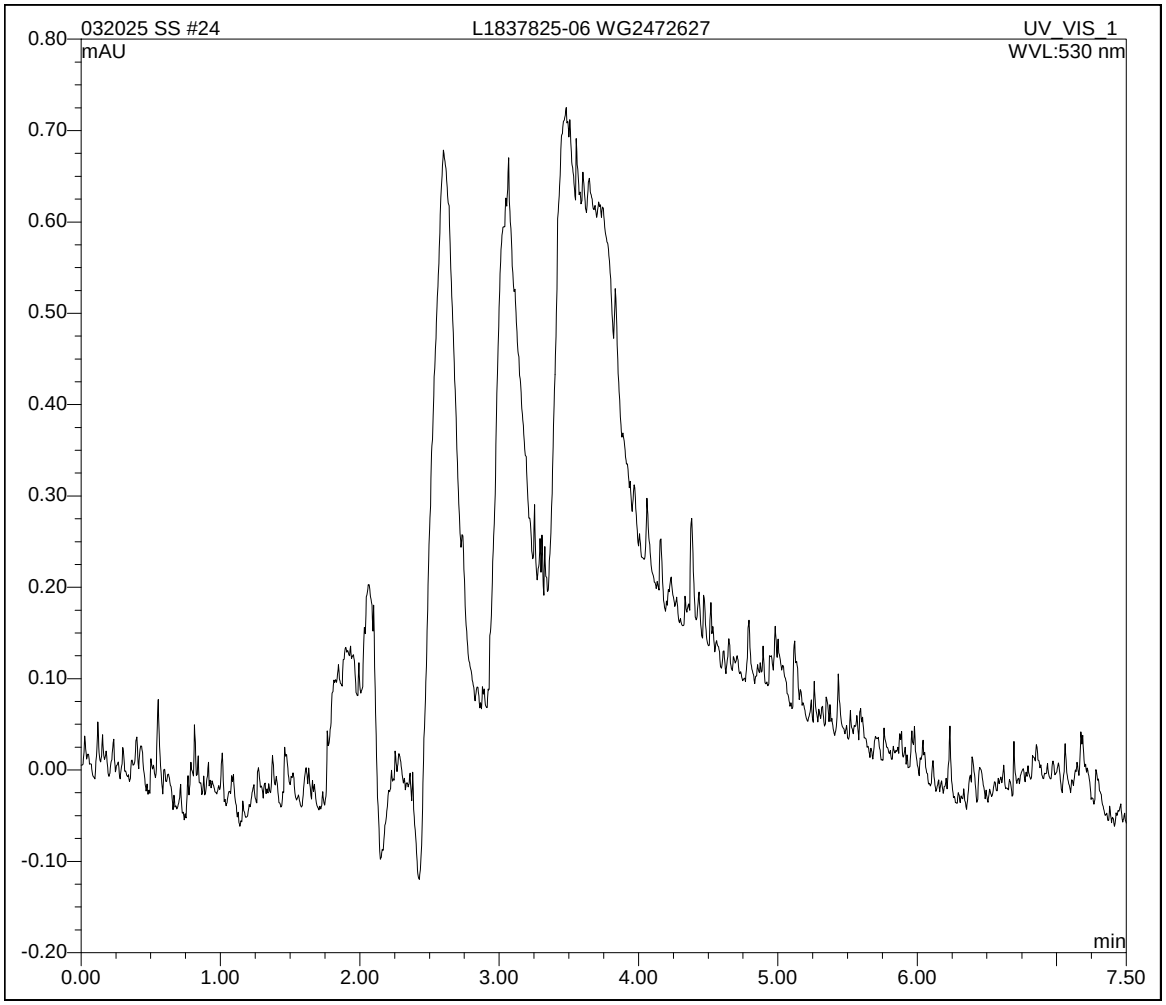
Sample Name:	**L1837825-06 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 08:39**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



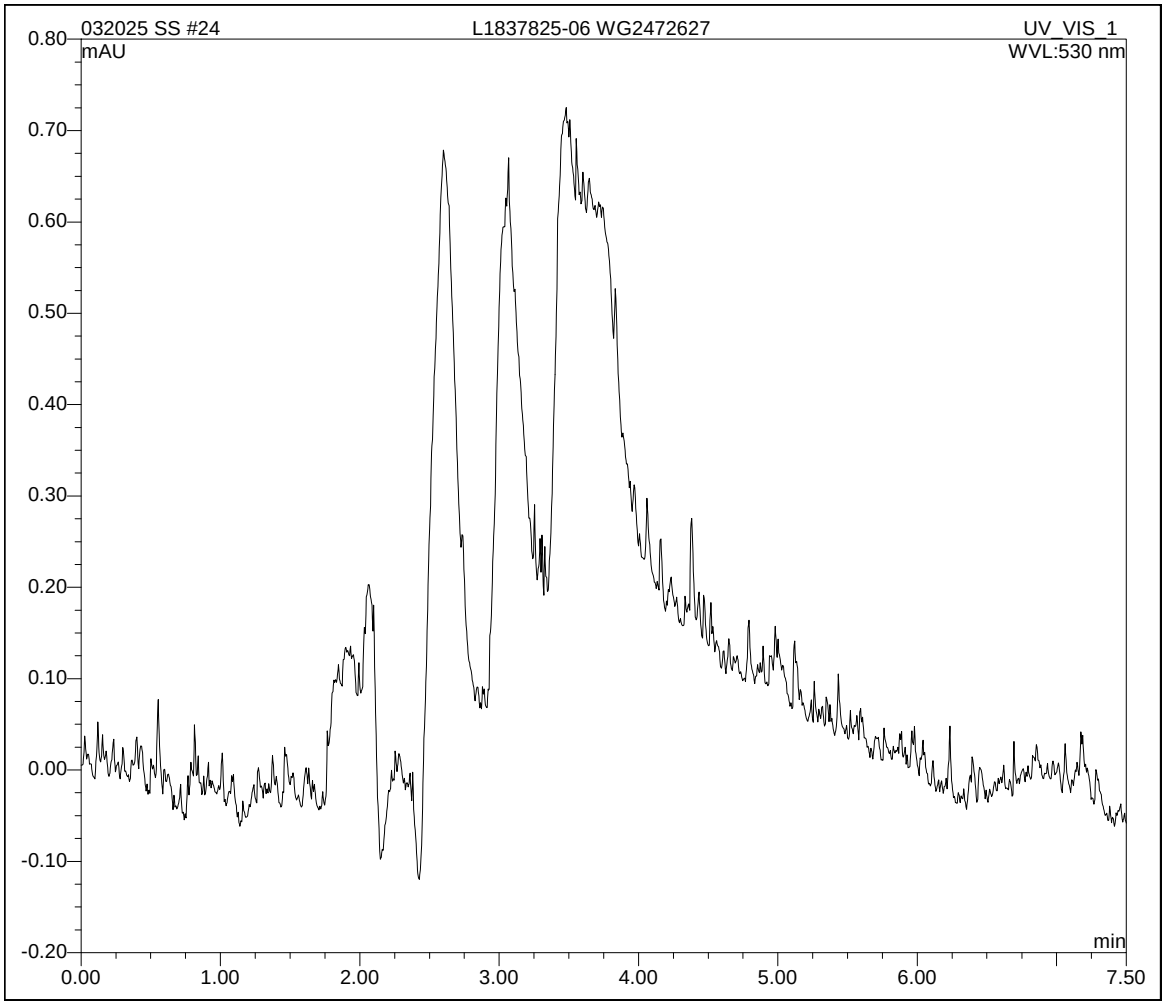
Sample Name:	**L1837825-06 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 08:39**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



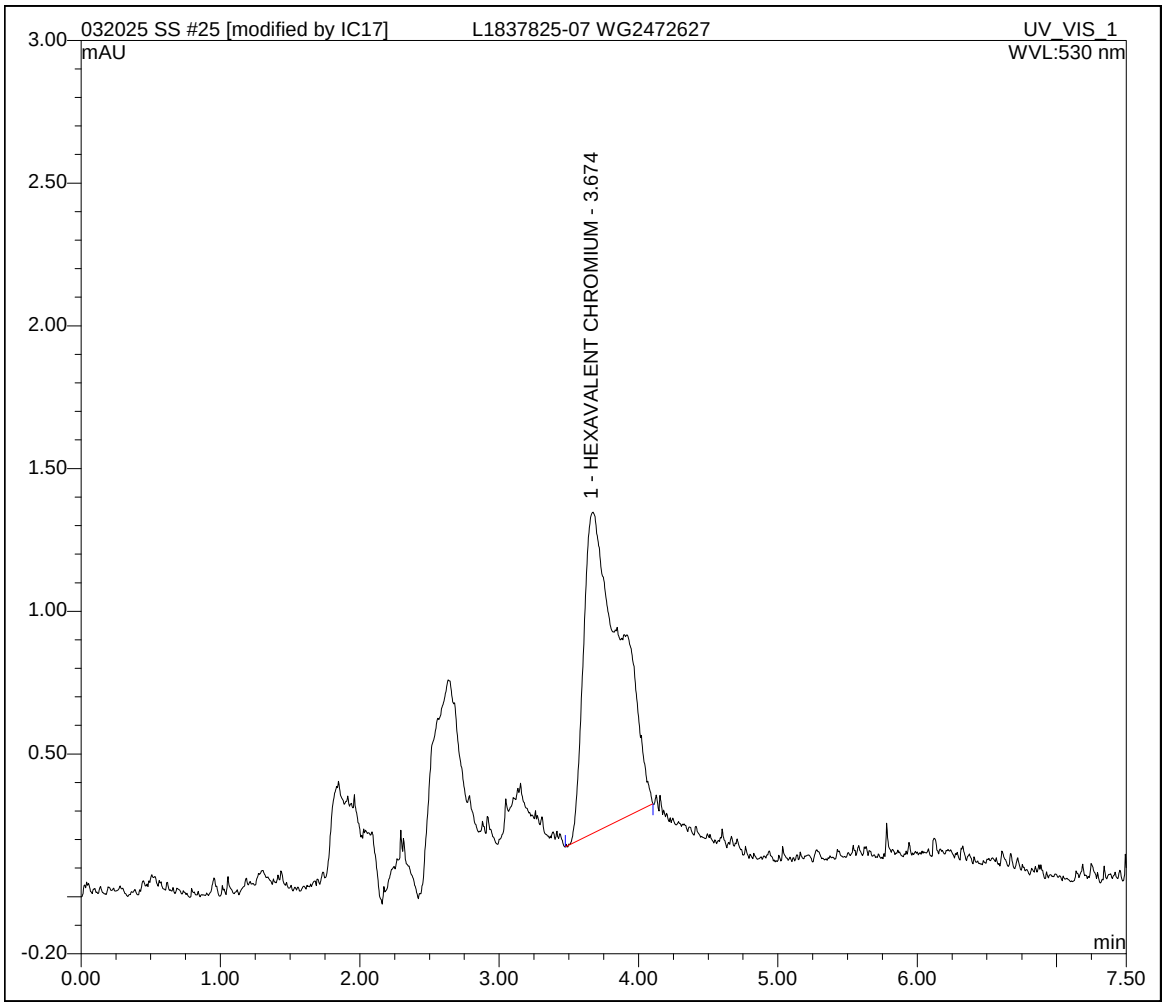
Sample Name:	**L1837825-06 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 08:39**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



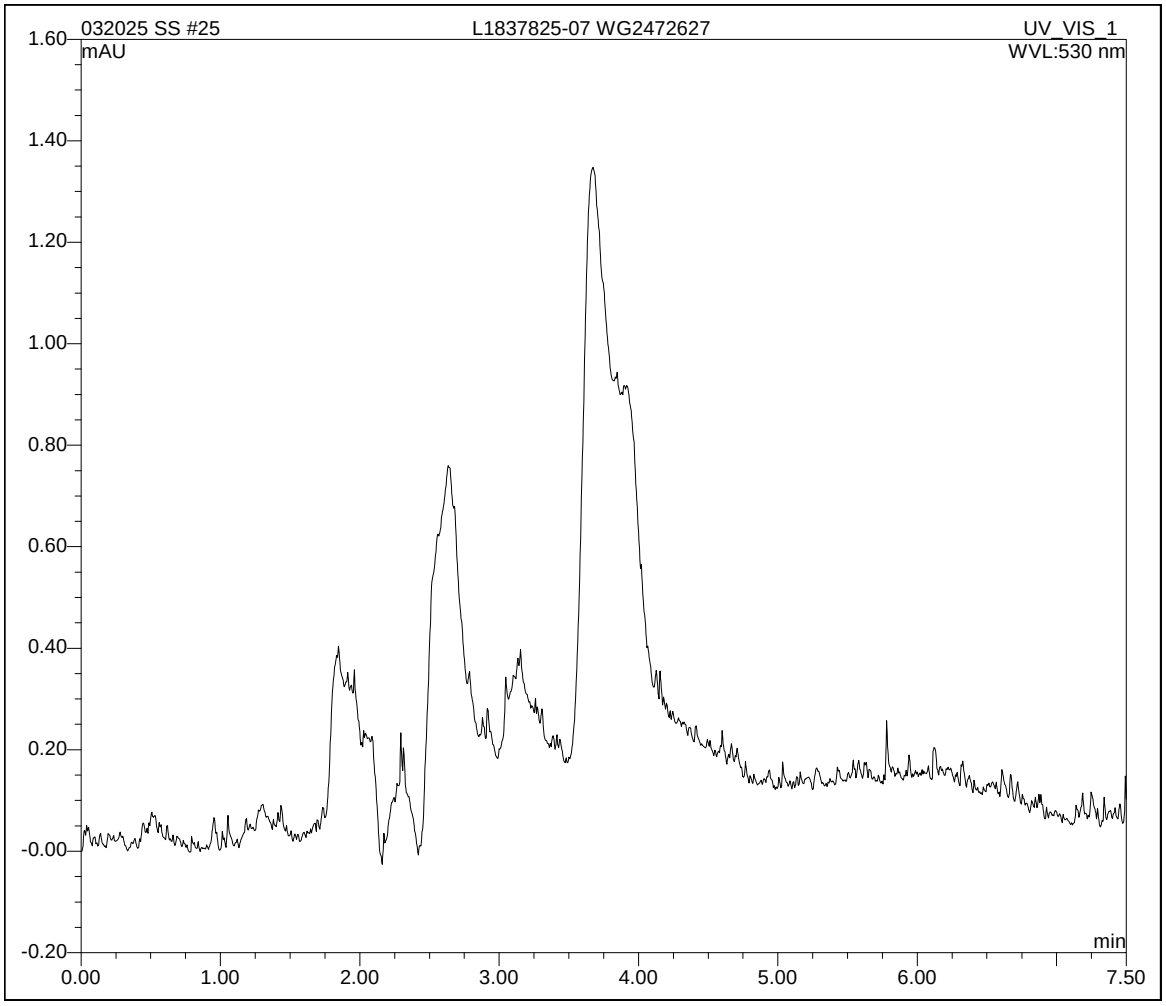
Sample Name:	**L1837825-07 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 08:49**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.67	HEXAVALENT CHROMIUM	BMB*	0.338	1.124	0.0020
		TOTAL:		0.34	1.12	0.00



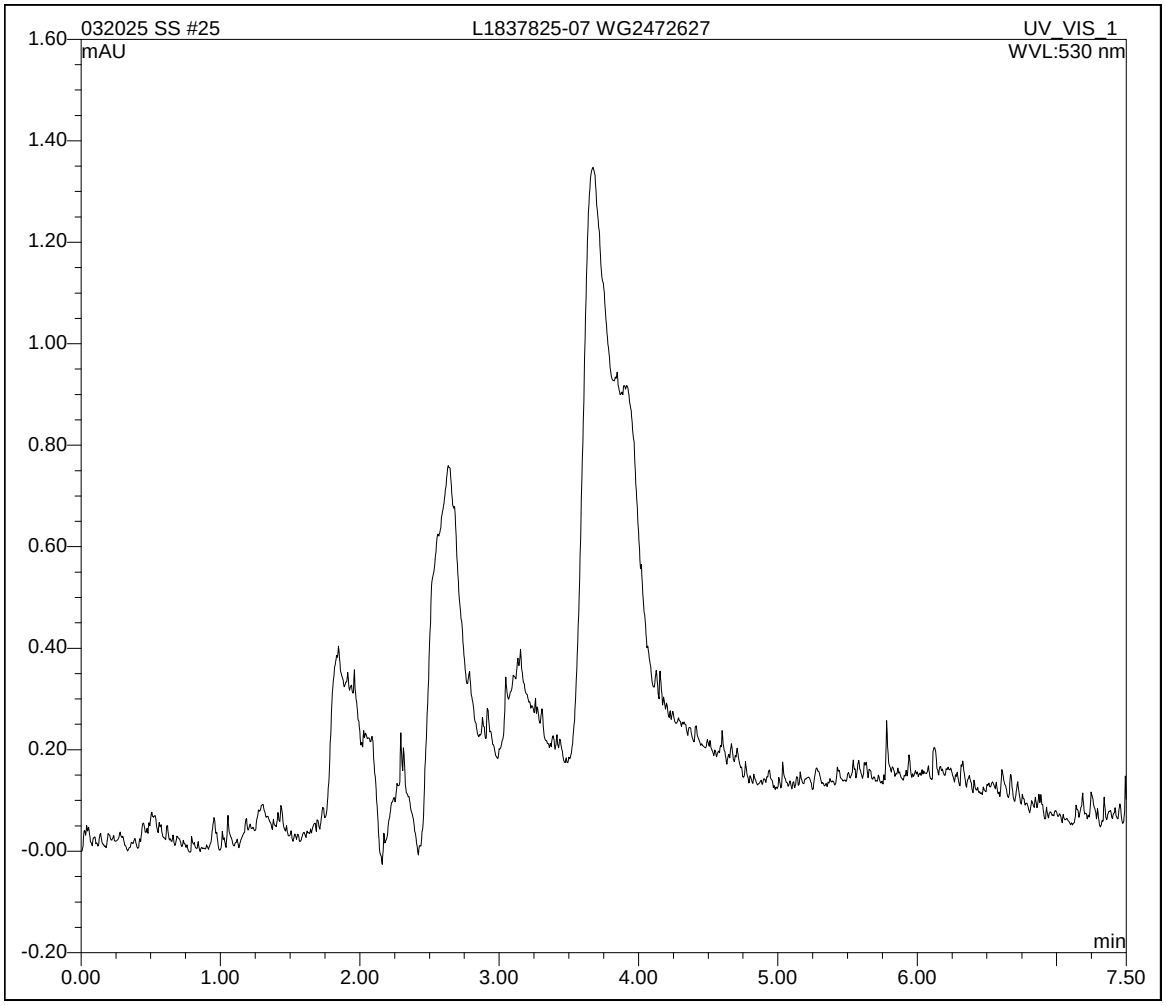
Sample Name:	**L1837825-07 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 08:49**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



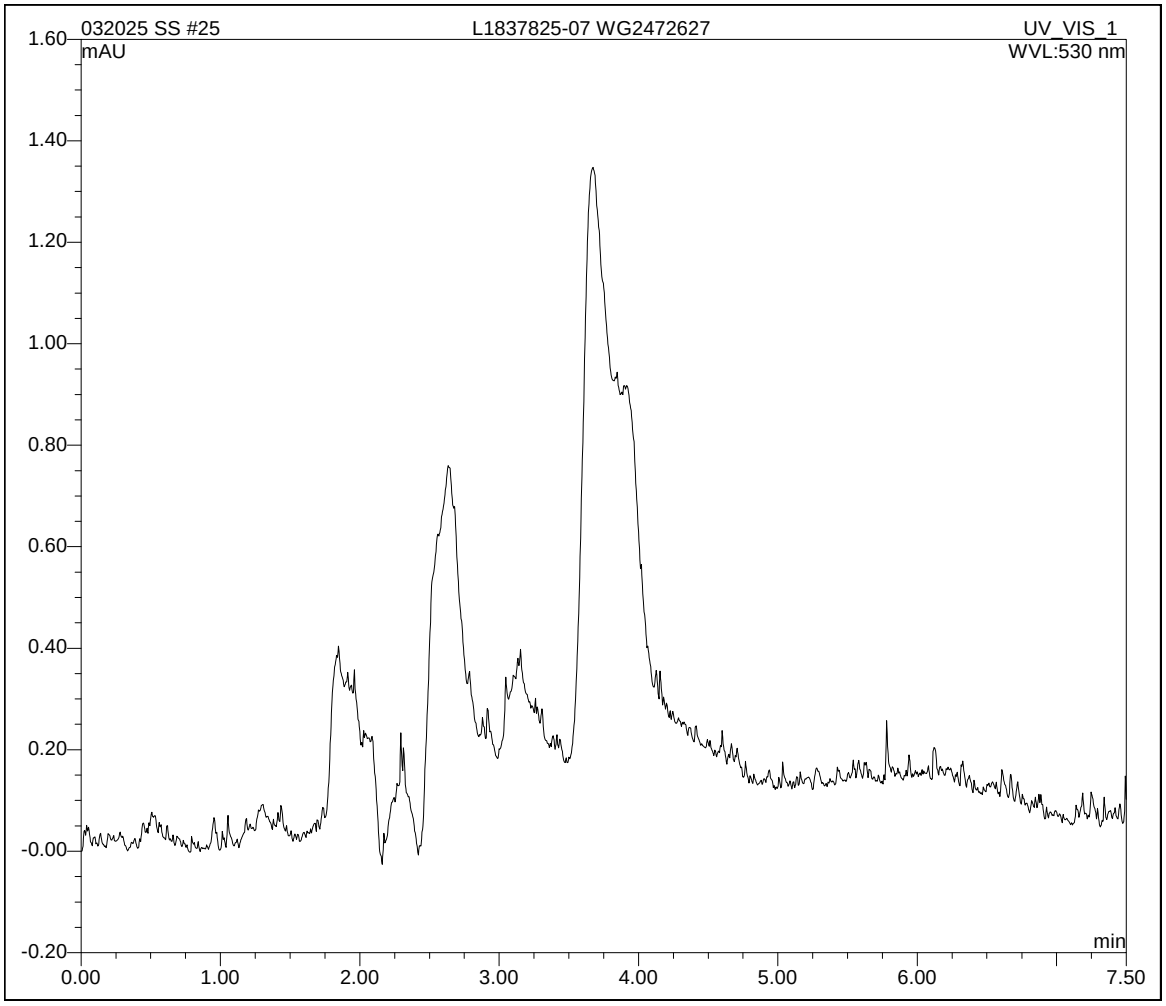
Sample Name:	**L1837825-07 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 08:49**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



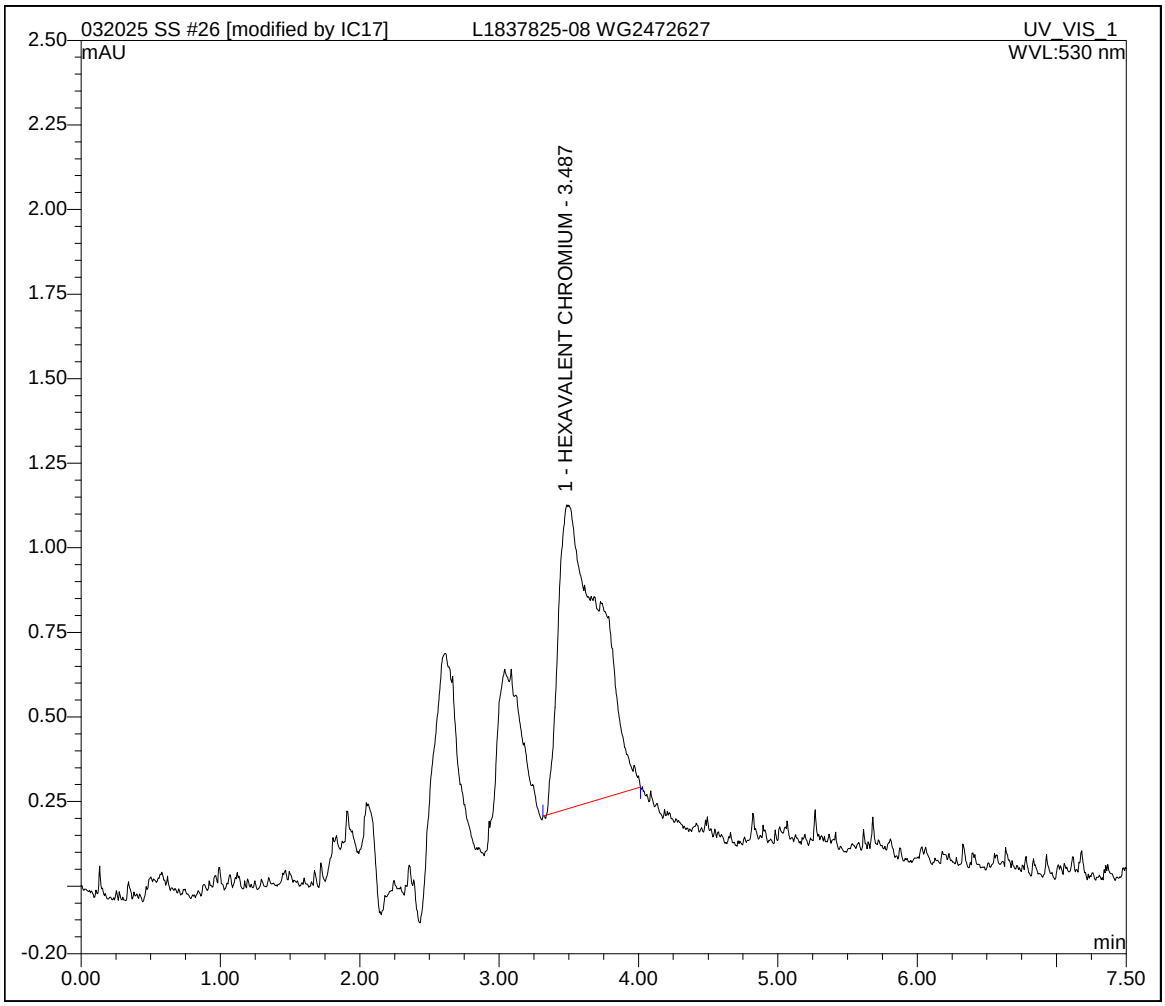
Sample Name:	**L1837825-07 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 08:49**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



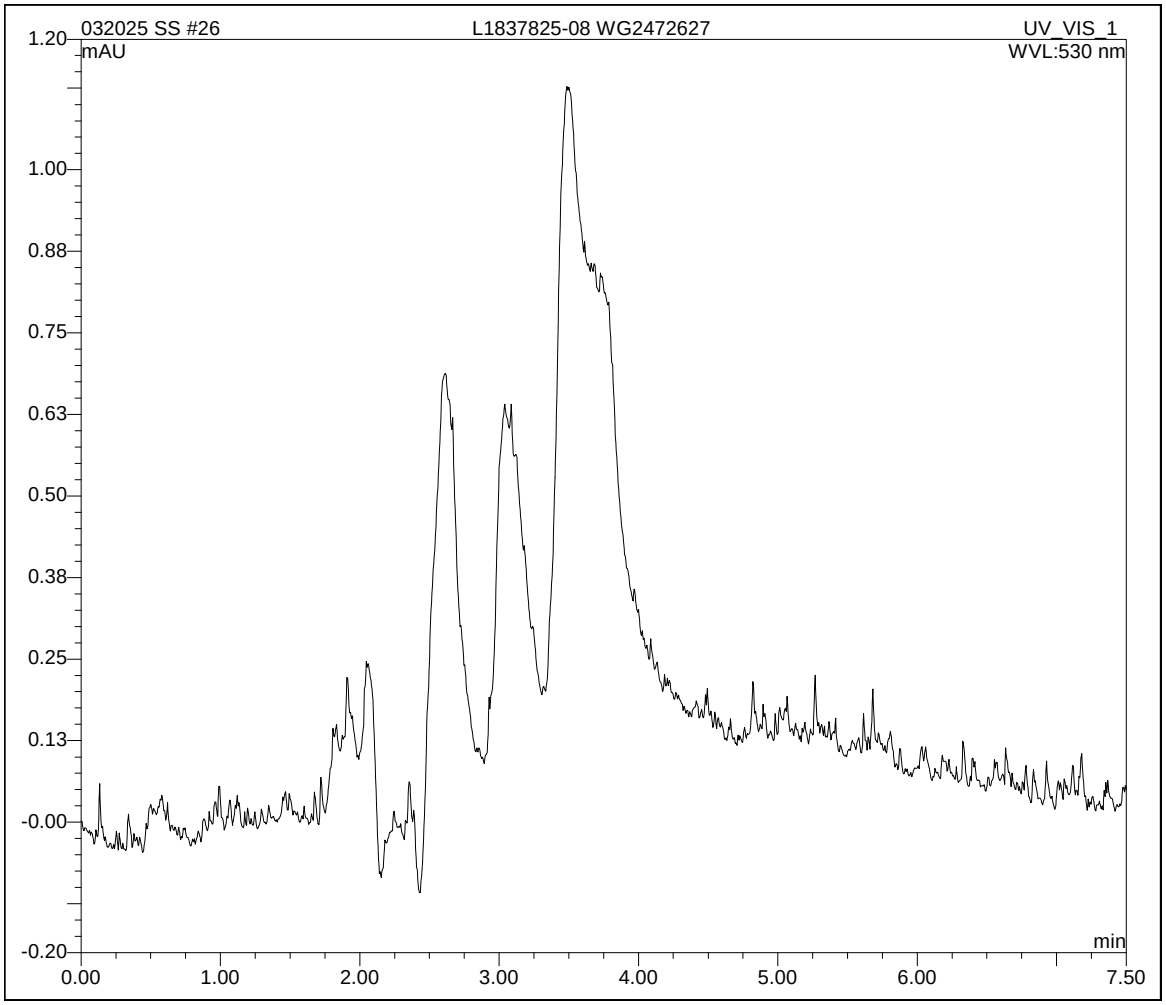
Sample Name:	**L1837825-08 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 09:00**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.49	HEXAVALENT CHROMIUM	BMB*	0.307	0.900	0.0017
		TOTAL:		0.31	0.90	0.00



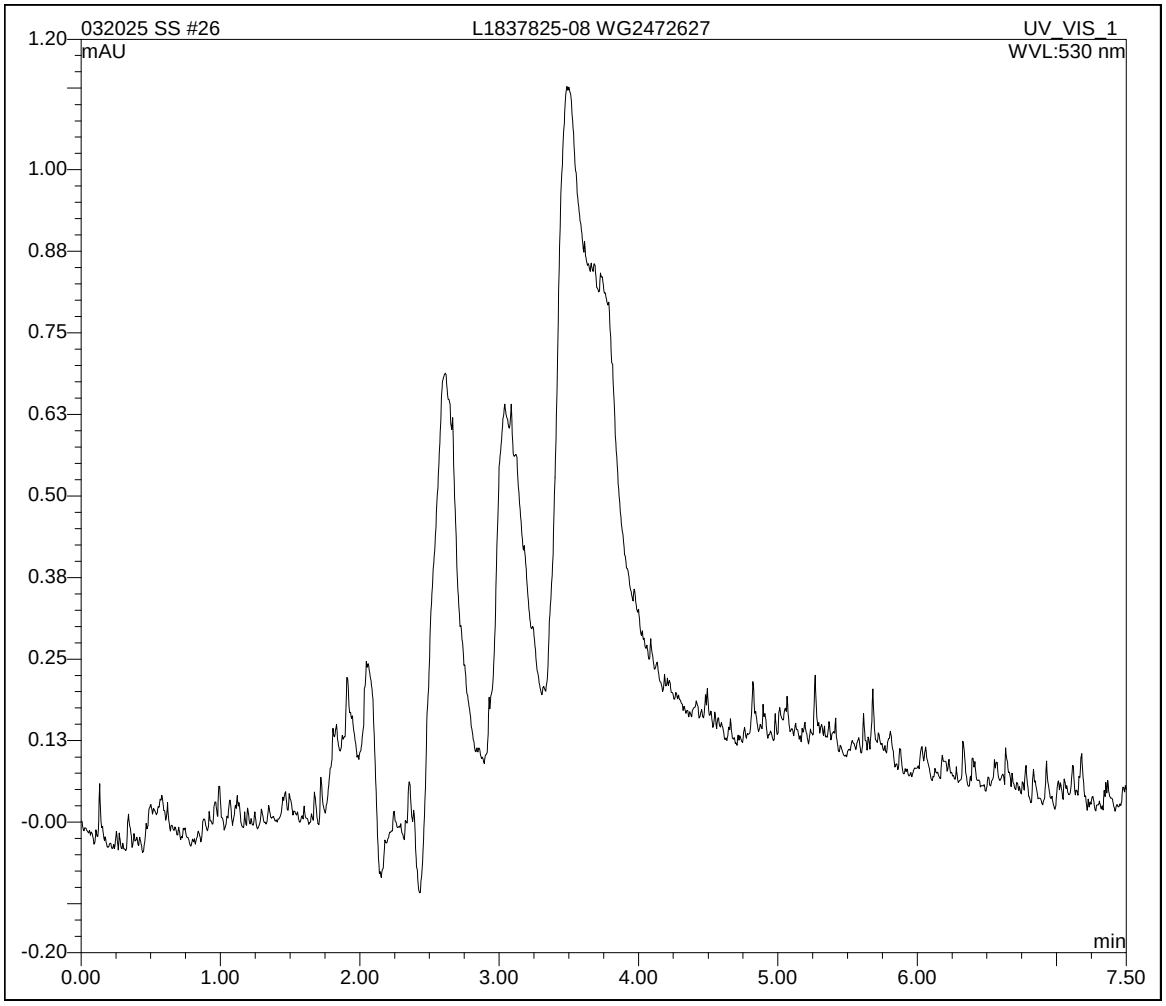
Sample Name:	**L1837825-08 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:00**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



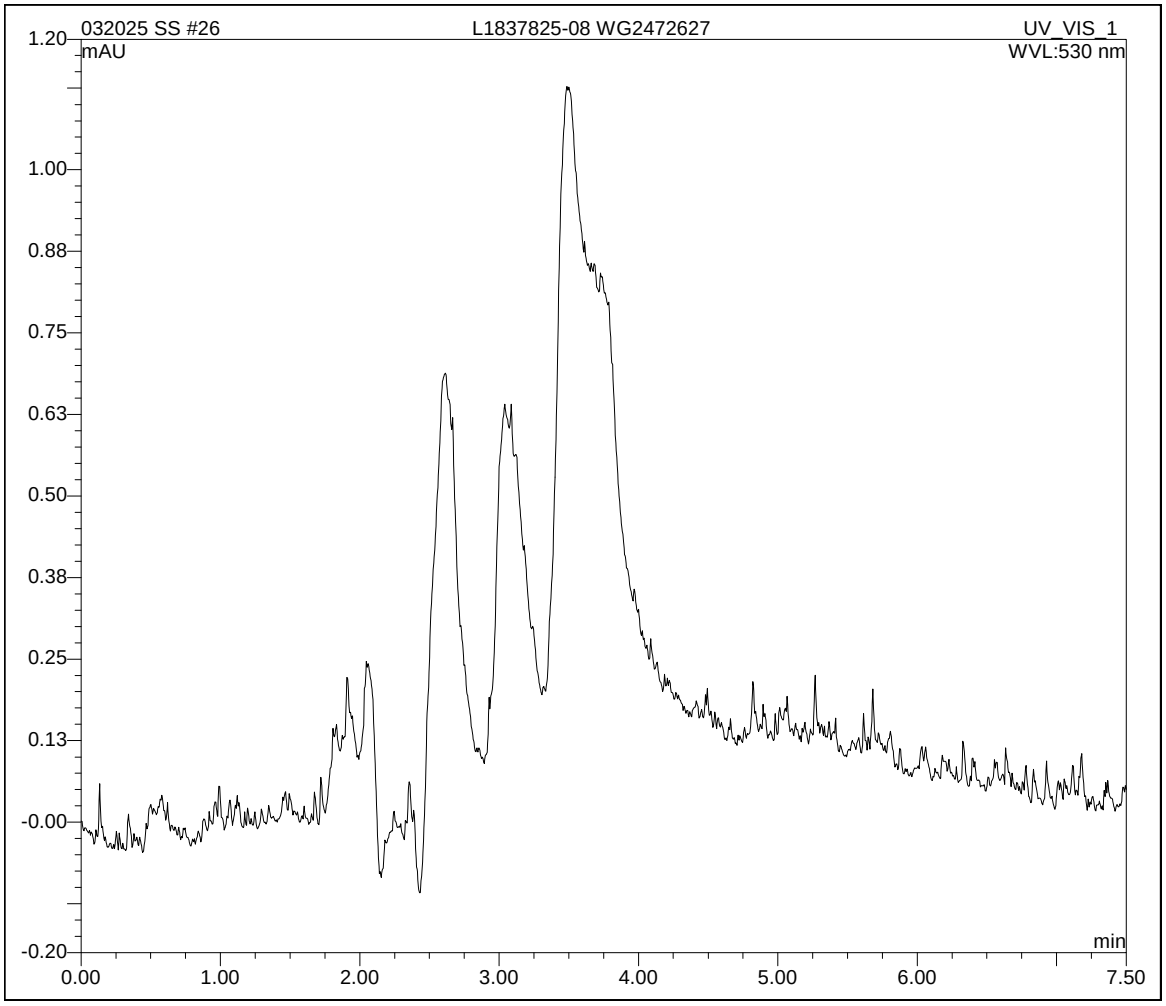
Sample Name:	**L1837825-08 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:00**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



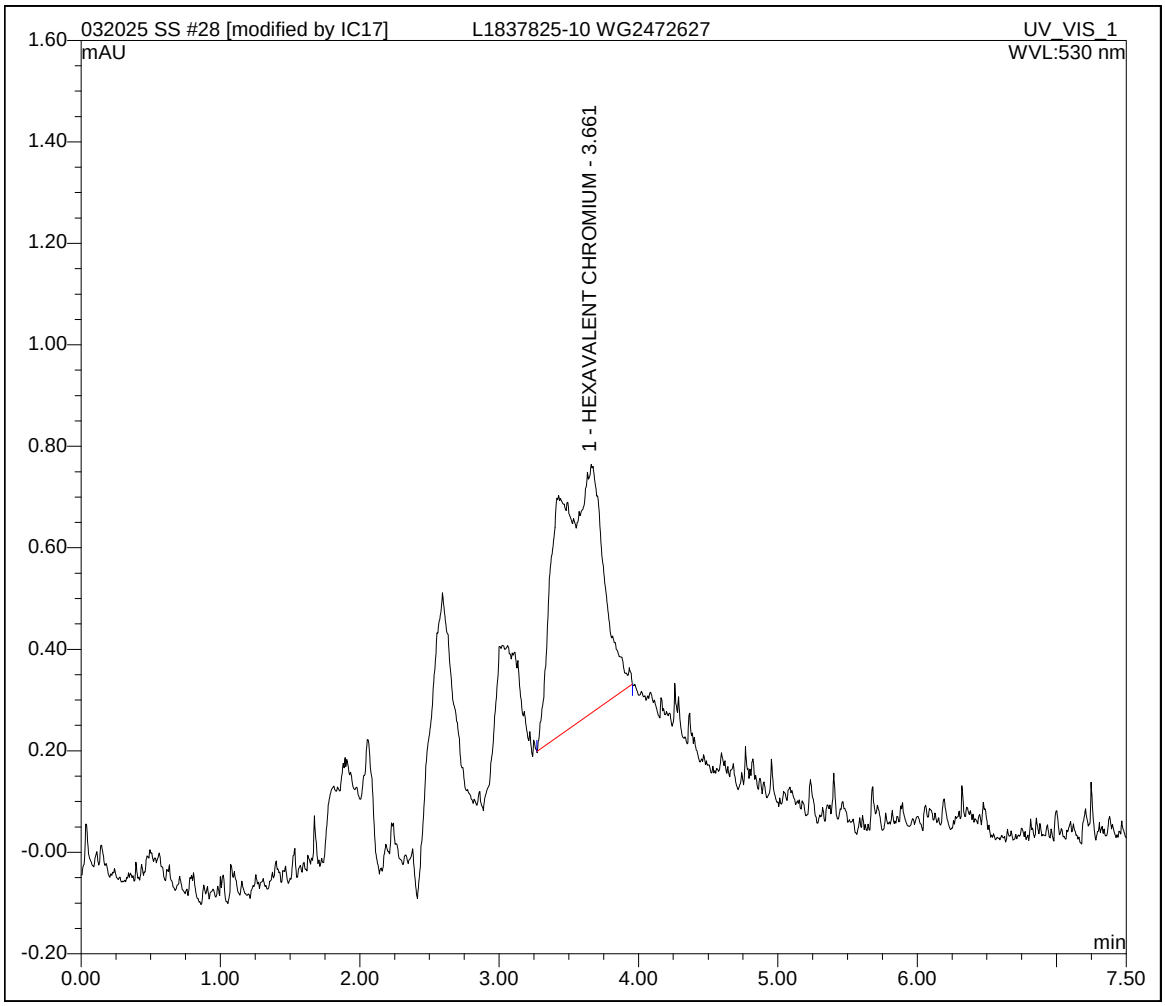
Sample Name:	**L1837825-08 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:00**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



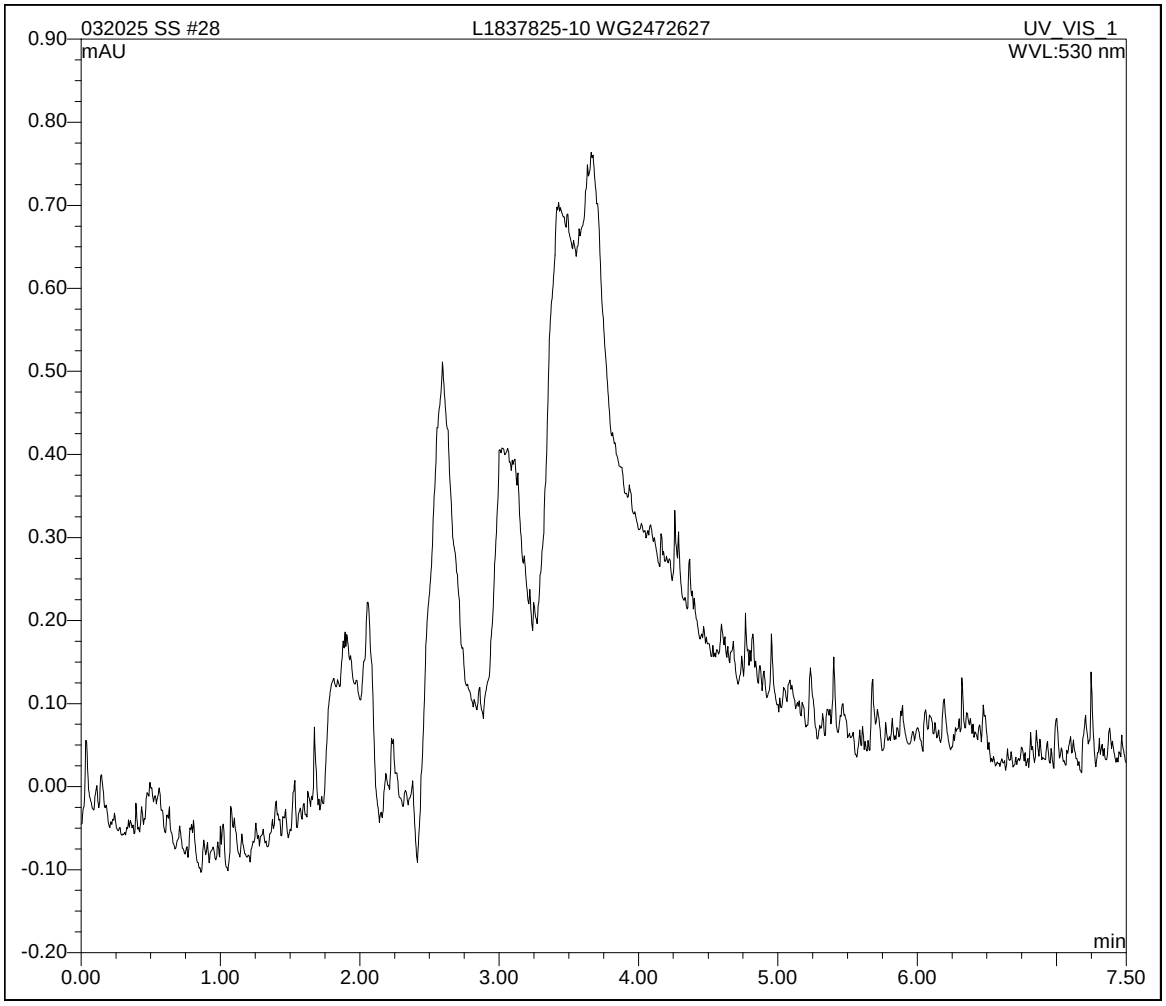
Sample Name:	**L1837825-10 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 09:21**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.66	HEXAVALENT CHROMIUM	BMB*	0.194	0.490	0.0007
		TOTAL:		0.19	0.49	0.00



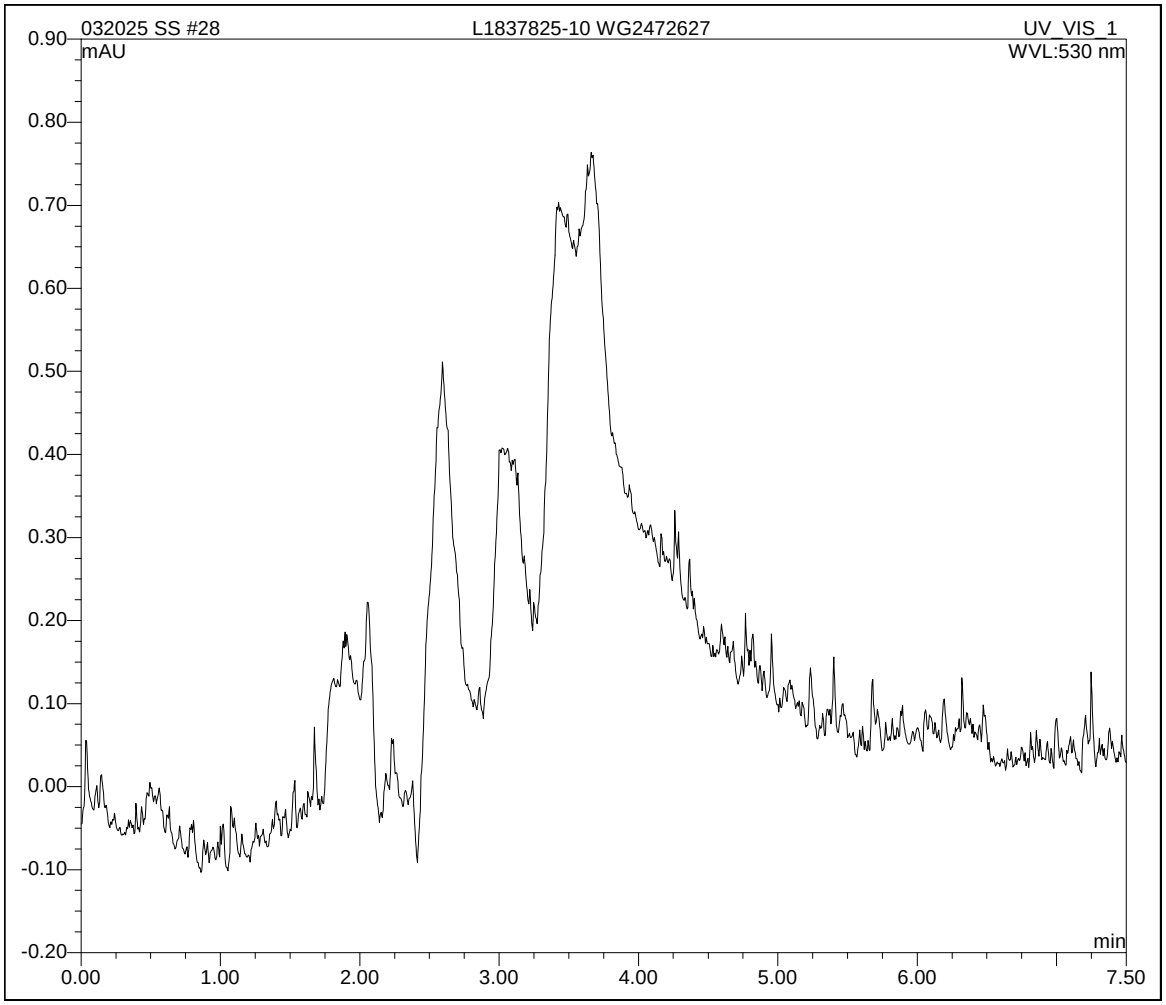
Sample Name:	**L1837825-10 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:21**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



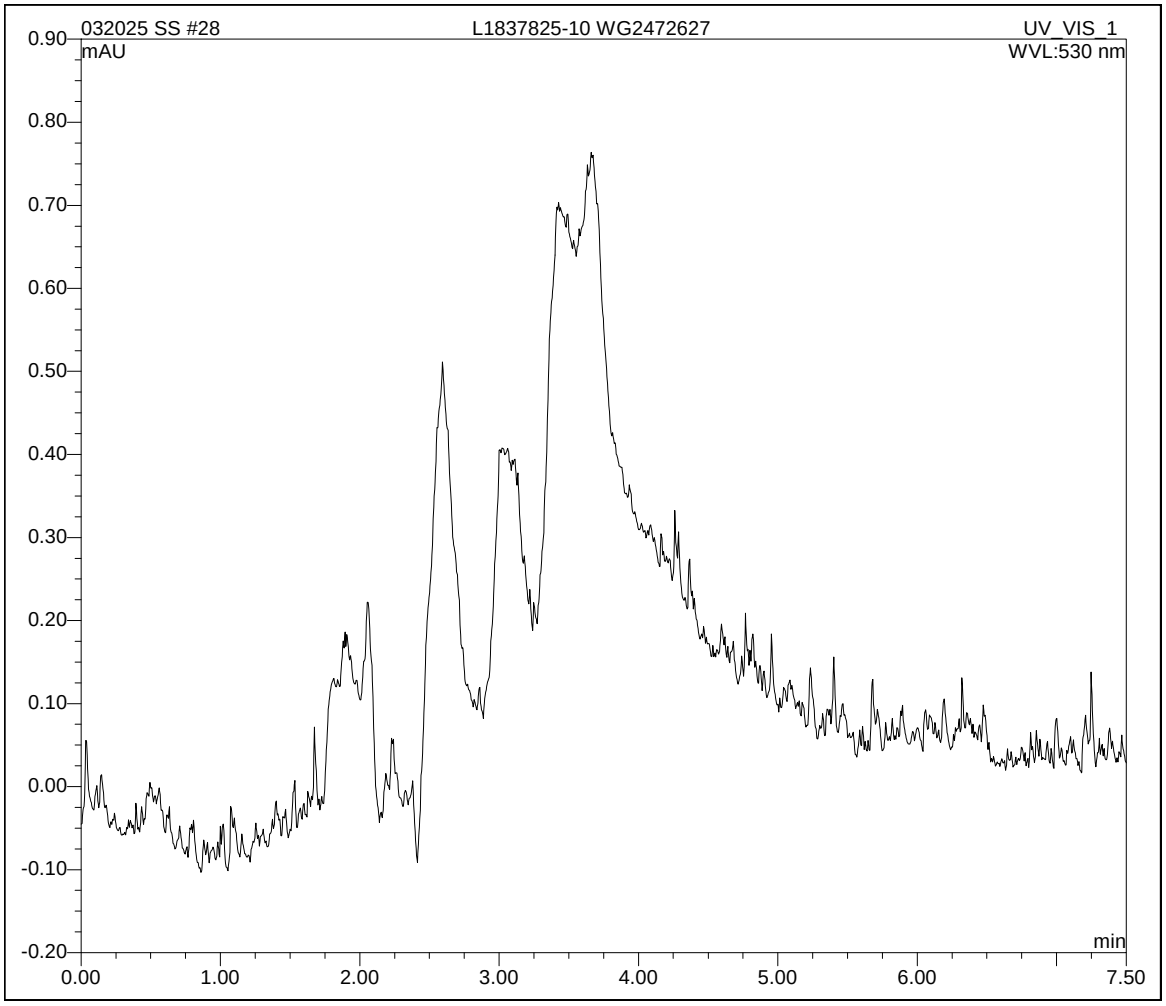
Sample Name:	**L1837825-10 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:21**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



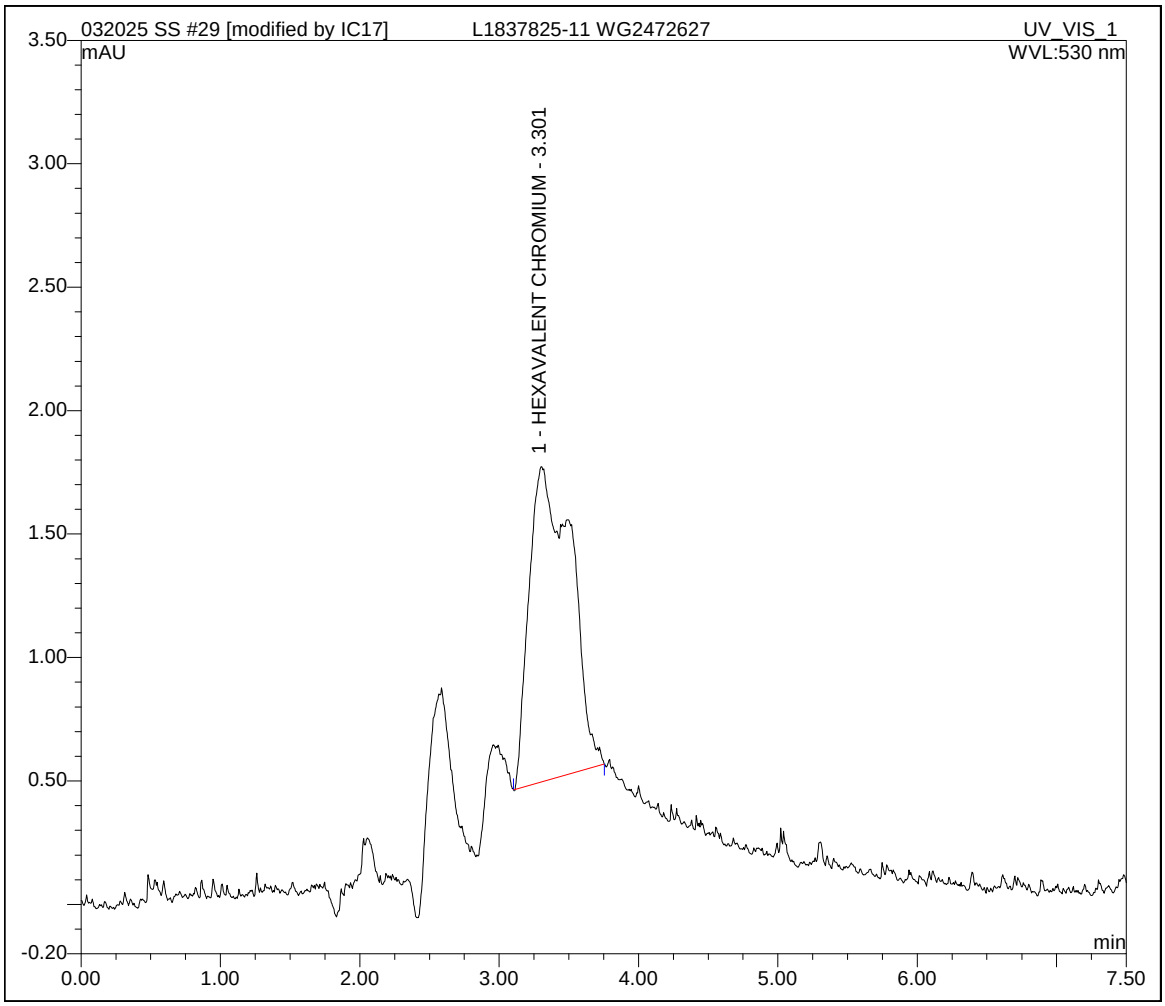
Sample Name:	**L1837825-10 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:21**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



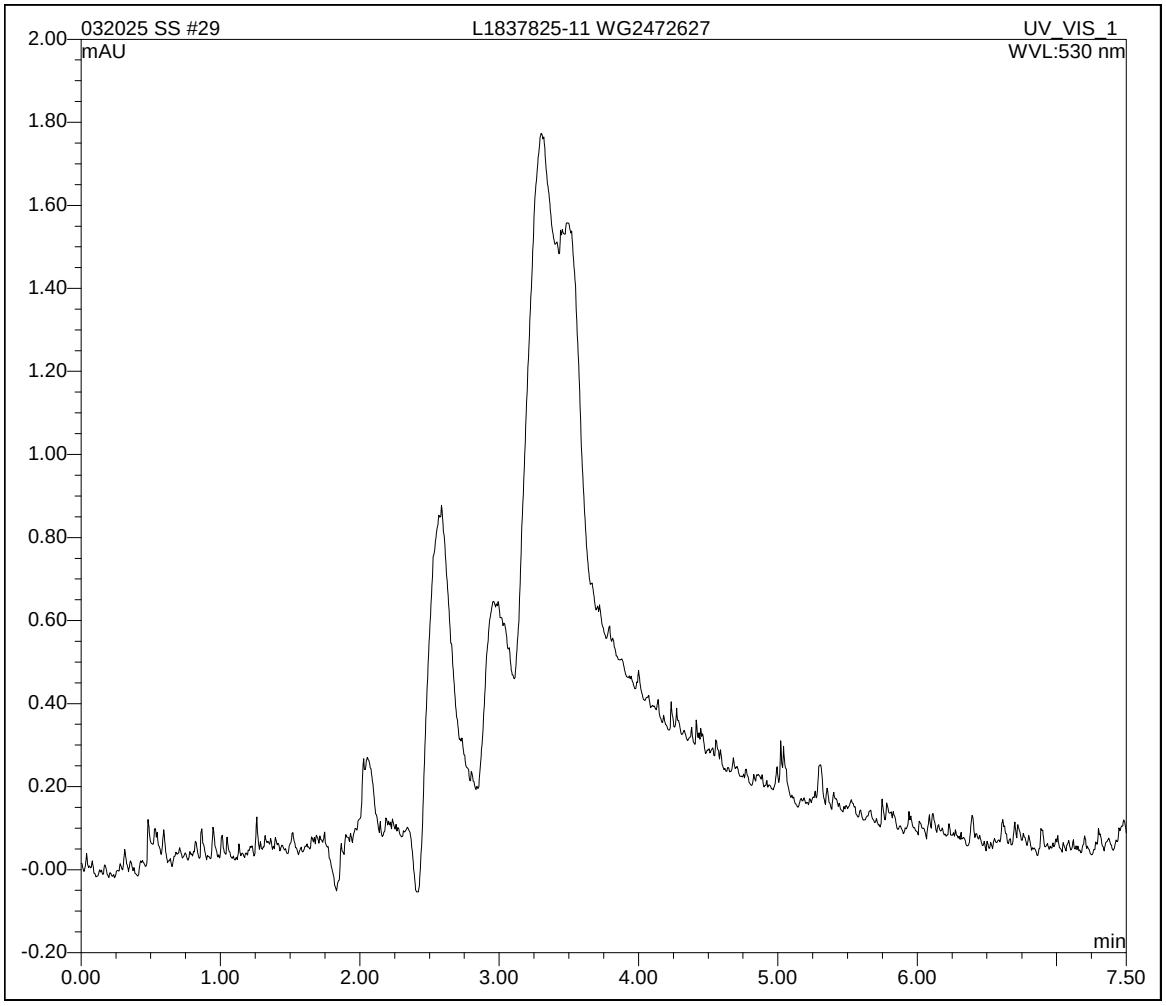
Sample Name:	**L1837825-11 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 09:31**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.30	HEXAVALENT CHROMIUM	BMB*	0.444	1.278	0.0030
		TOTAL:		0.44	1.28	0.00



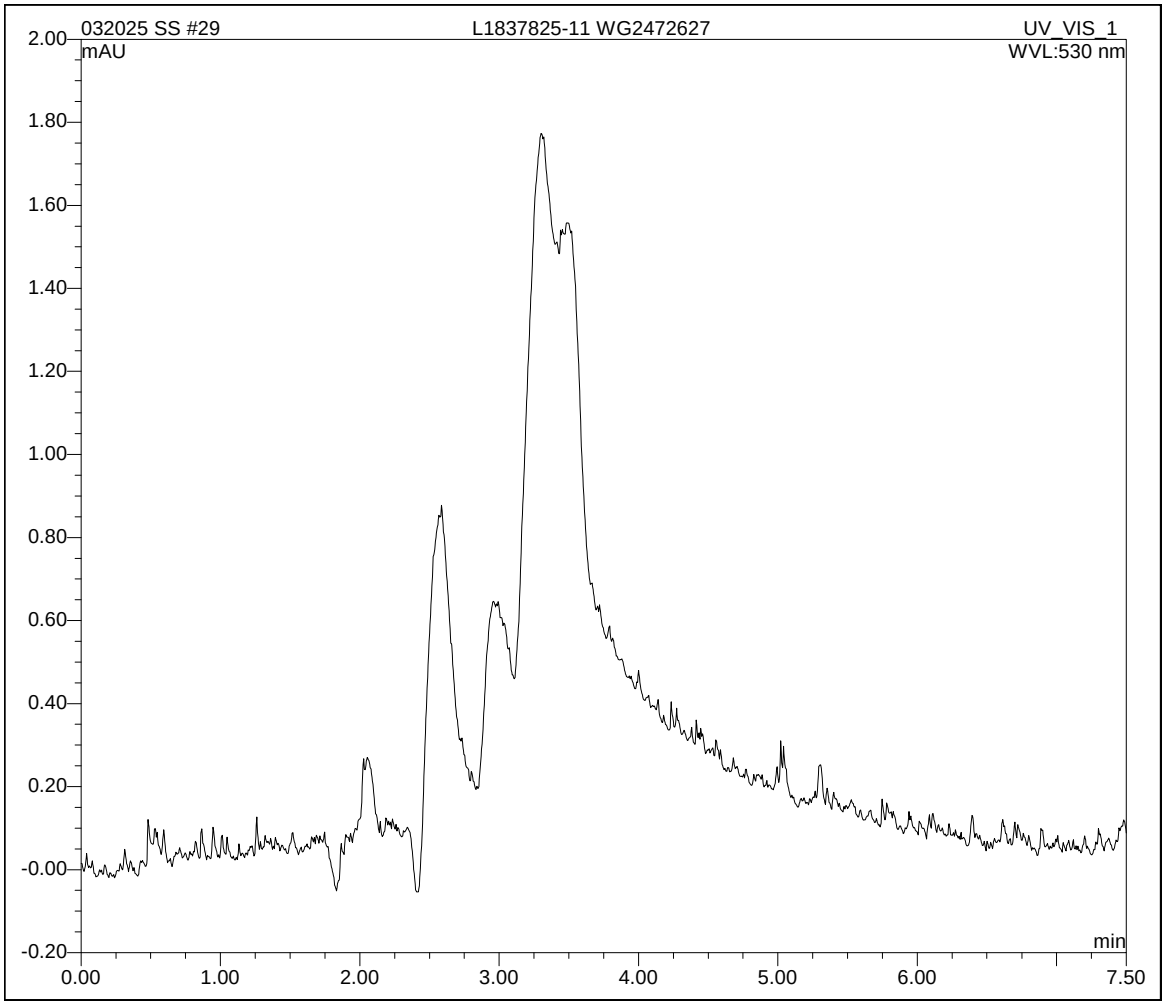
Sample Name:	**L1837825-11 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:31**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



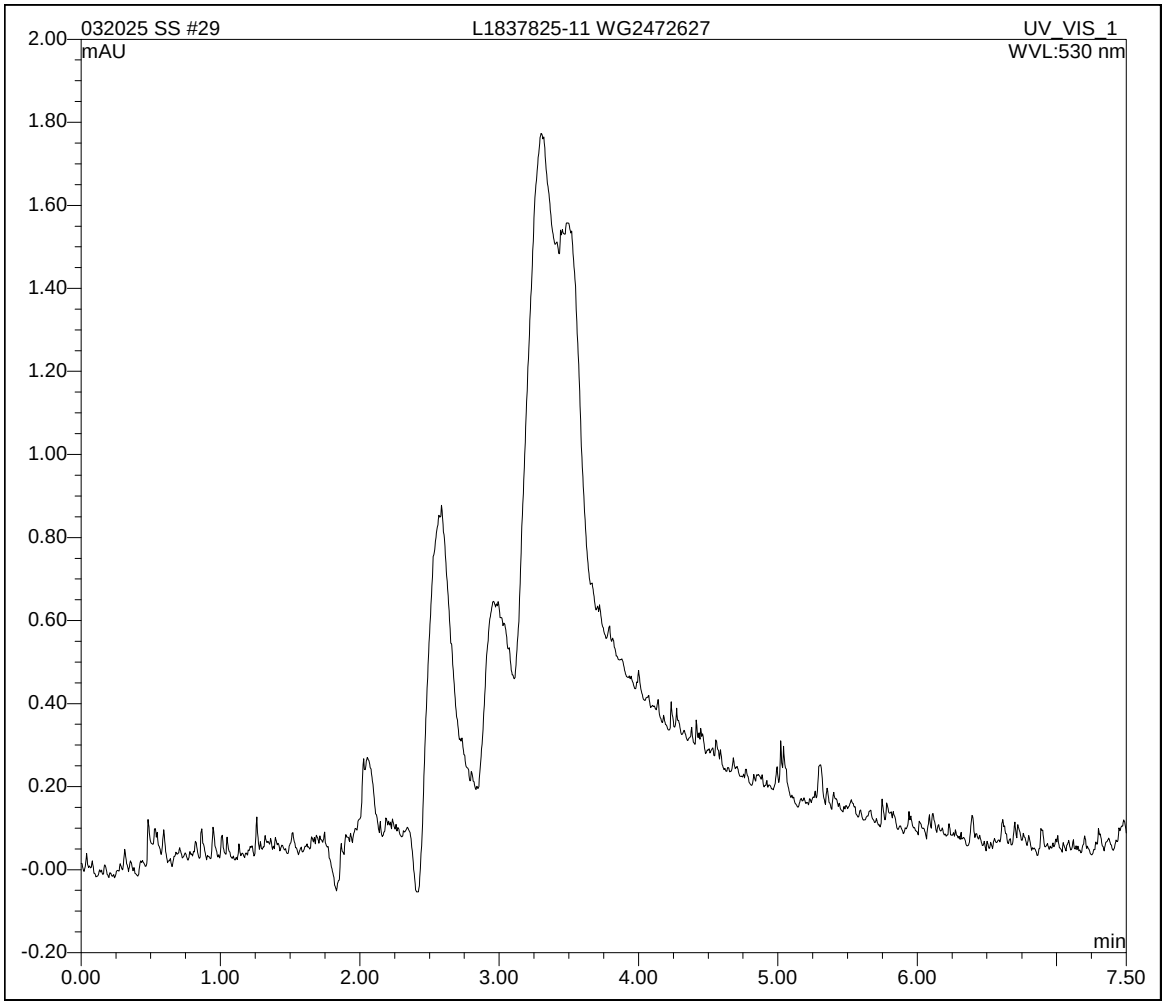
Sample Name:	**L1837825-11 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:31**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



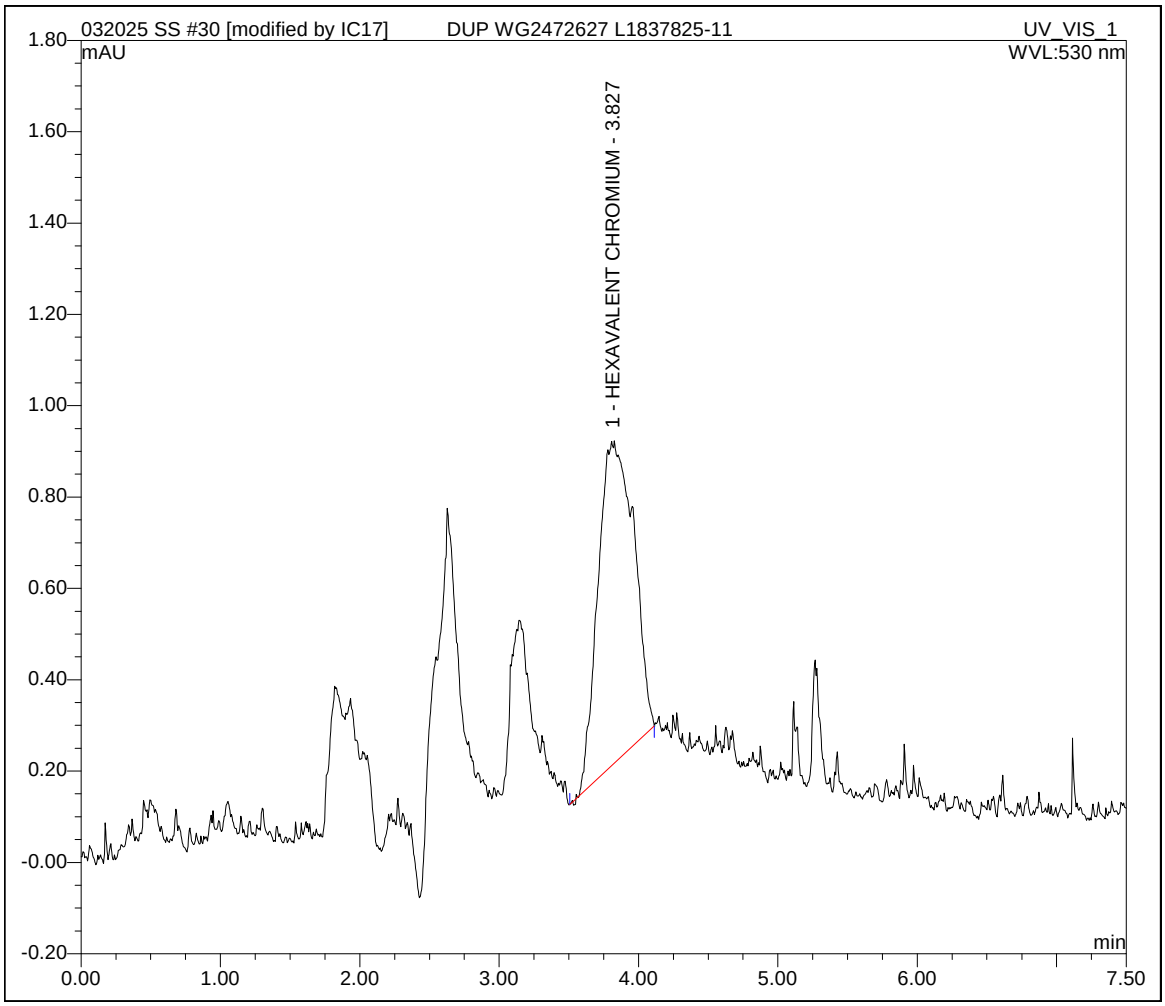
Sample Name:	**L1837825-11 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:31**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



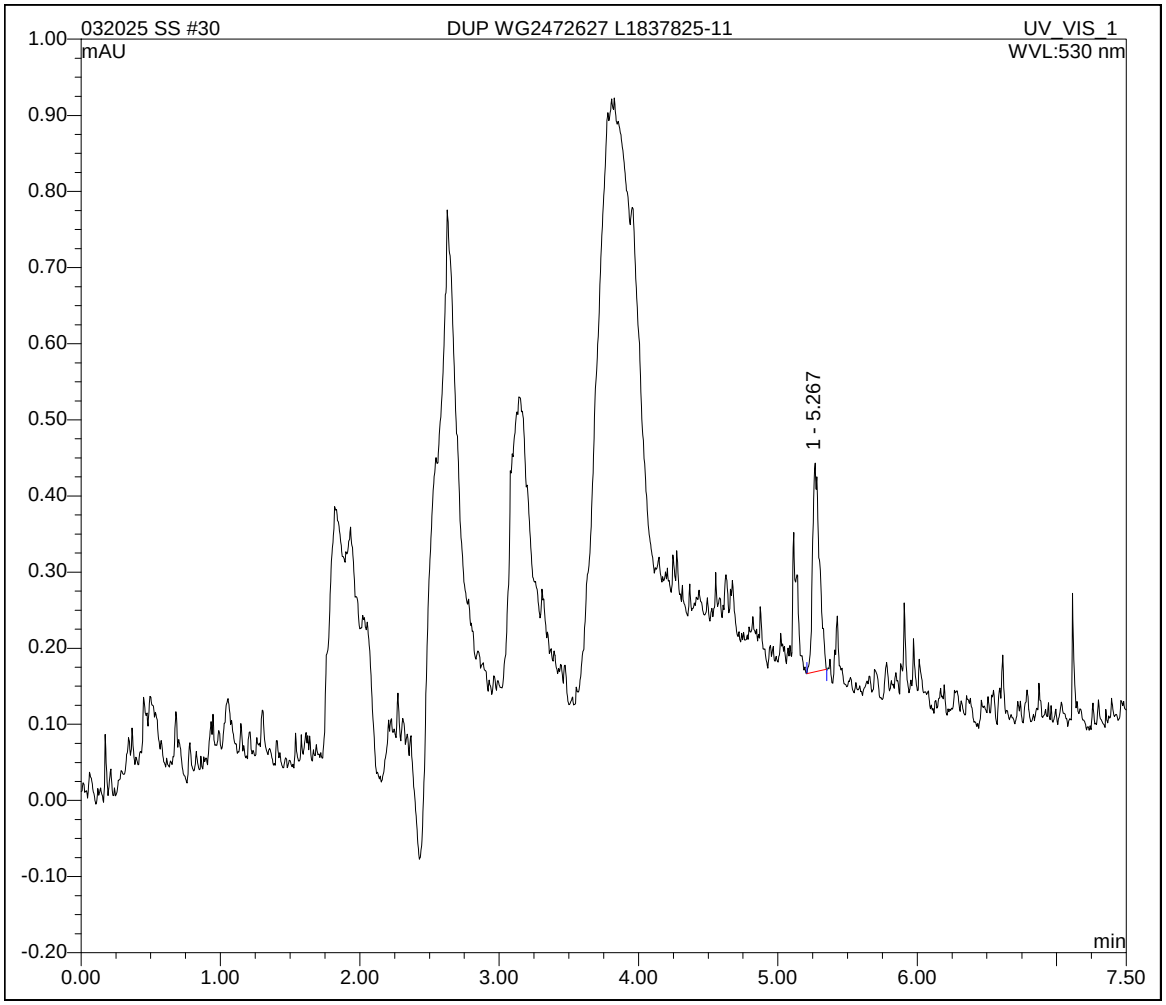
Sample Name:	**DUP WG2472627 L1837825-11**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**WP: EKB486 032025**
Inj. Date/Time:	**03/20/25 09:42**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.83	HEXAVALENT CHROMIUM	BMB*	0.209	0.705	0.0008
		TOTAL:		0.21	0.71	0.00



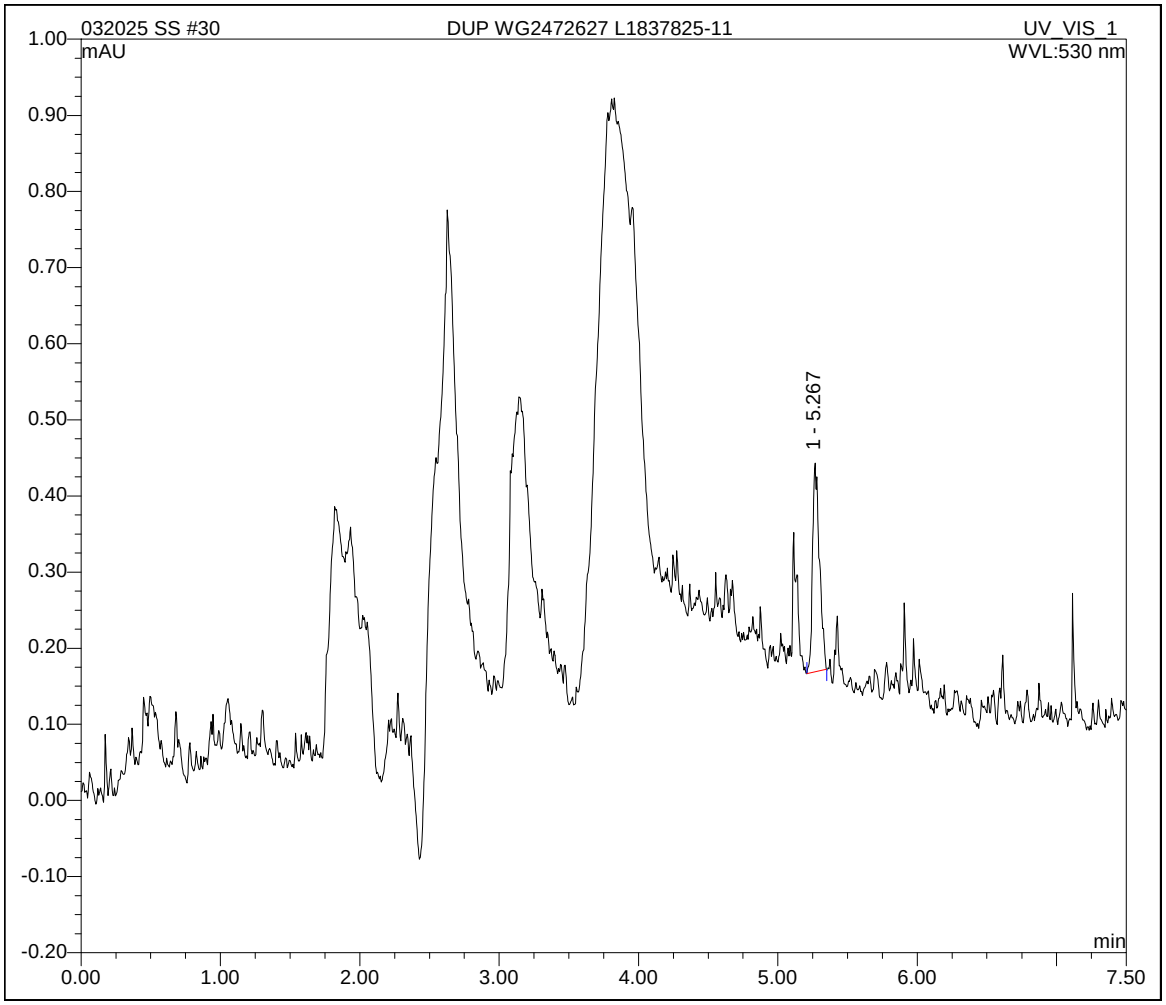
Sample Name:	**DUP WG2472627 L1837825-11**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:42**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



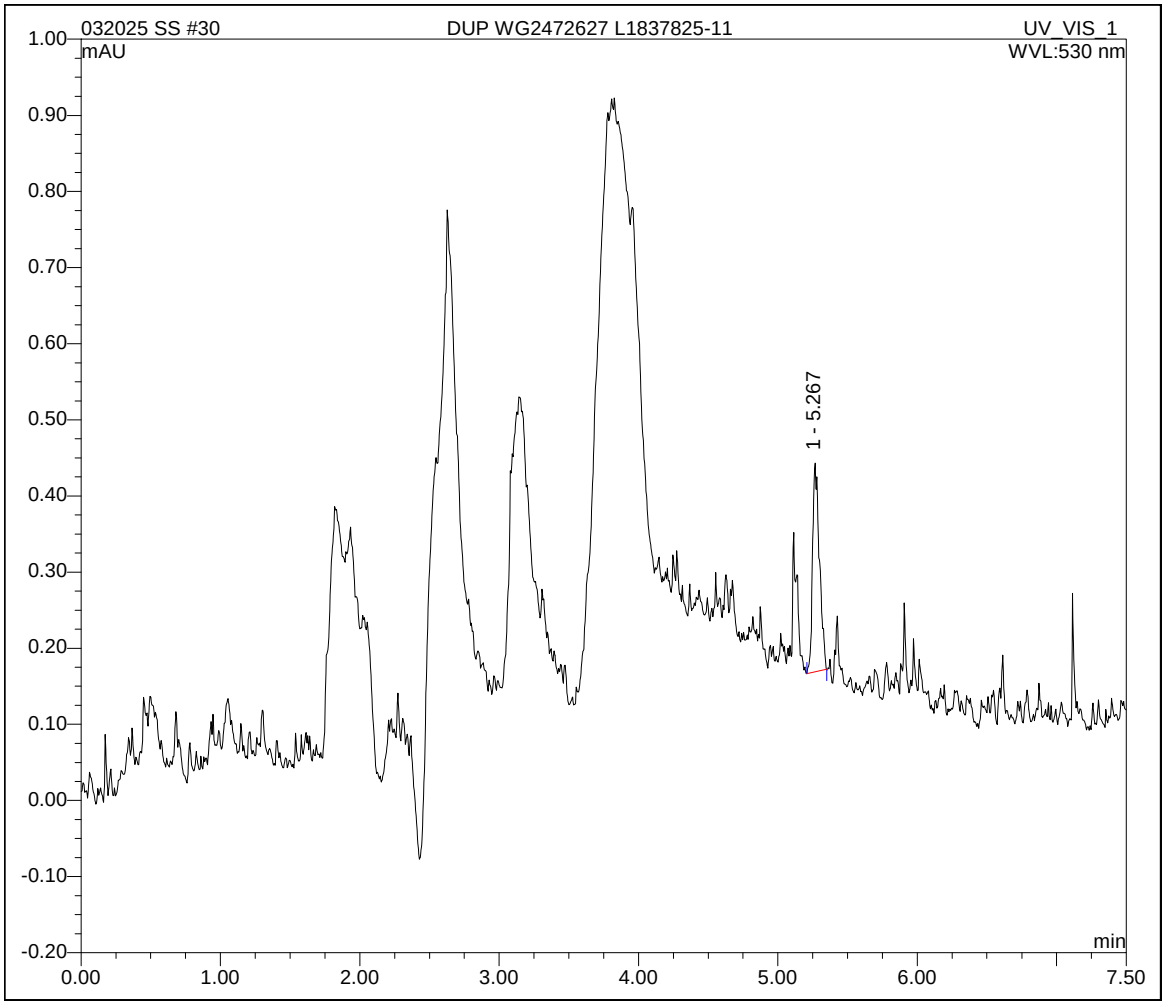
Sample Name:	**DUP WG2472627 L1837825-11**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:42**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



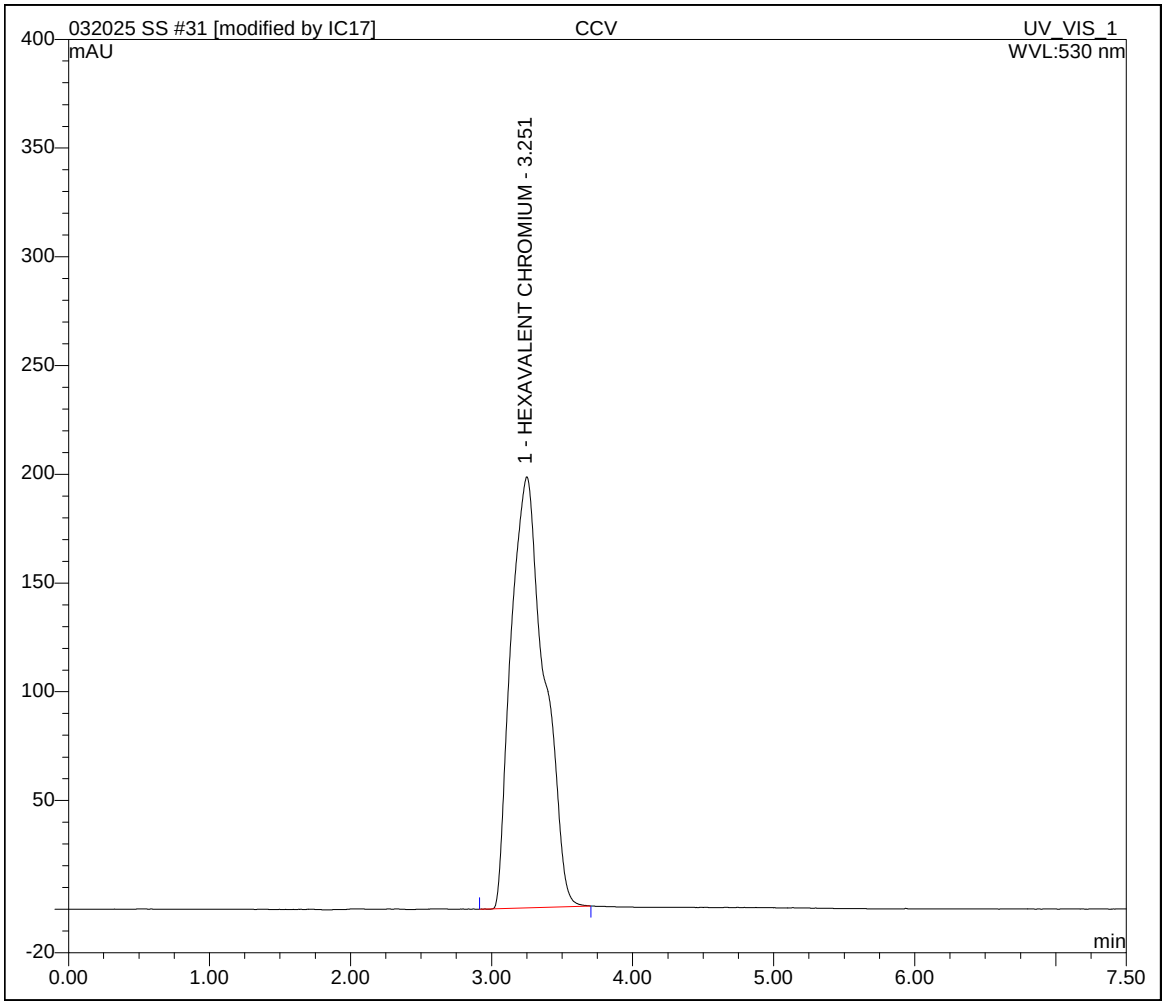
Sample Name:	**DUP WG2472627 L1837825-11**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:42**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



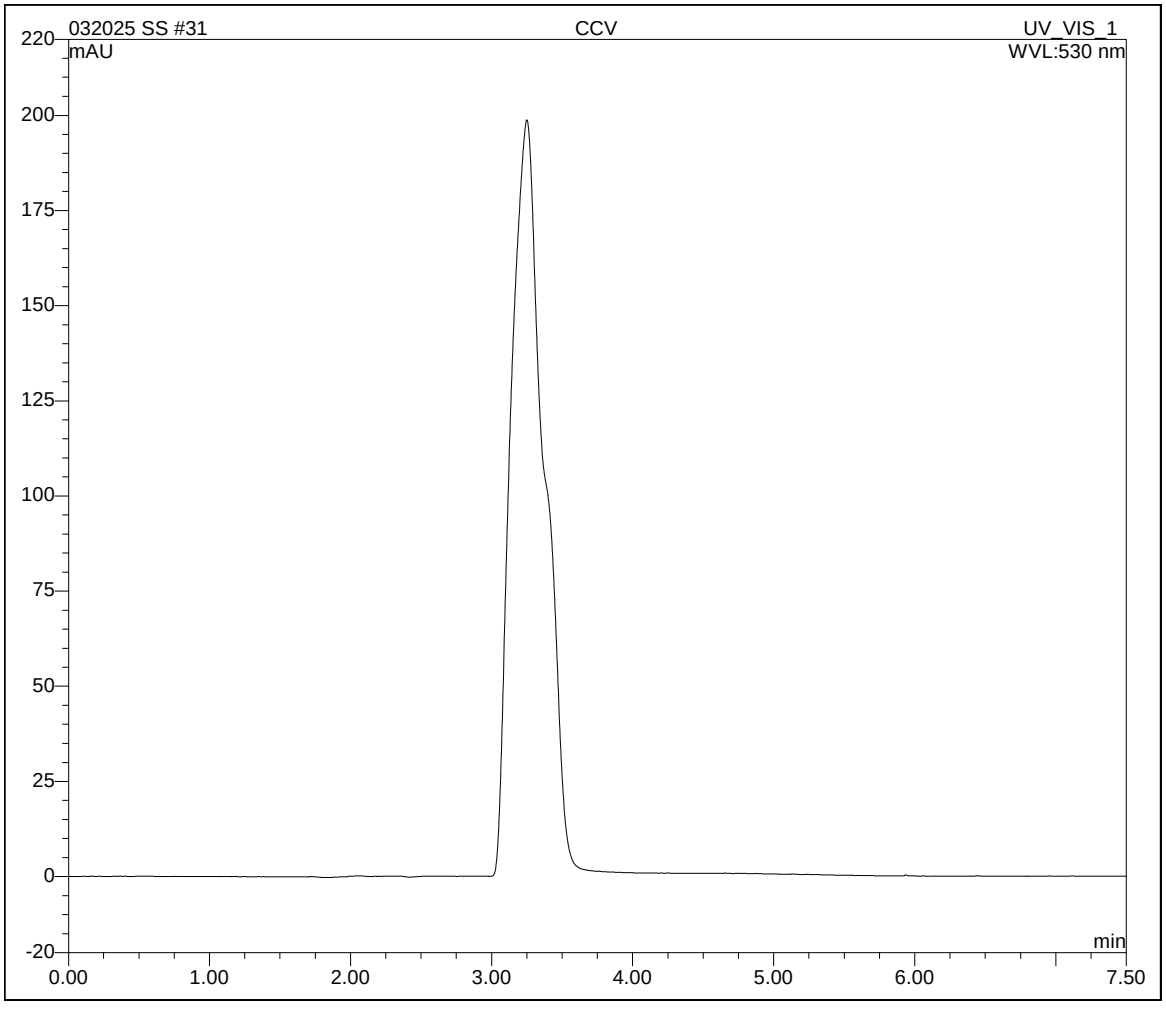
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 09:52**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.25	HEXAVALENT CHROMIUM	BMB*	53.995	198.114	0.5091
		TOTAL:		53.99	198.11	0.51



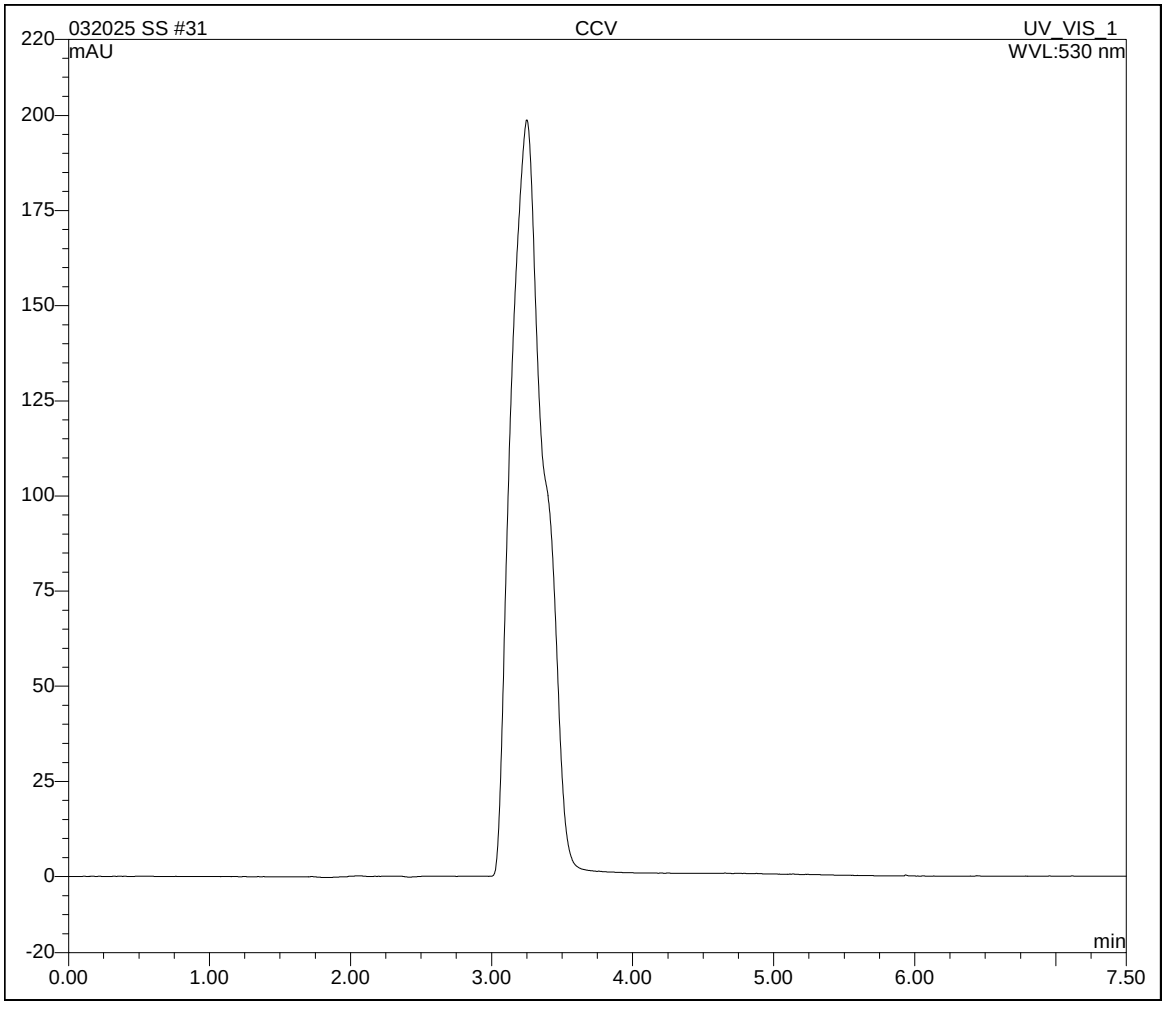
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:52**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



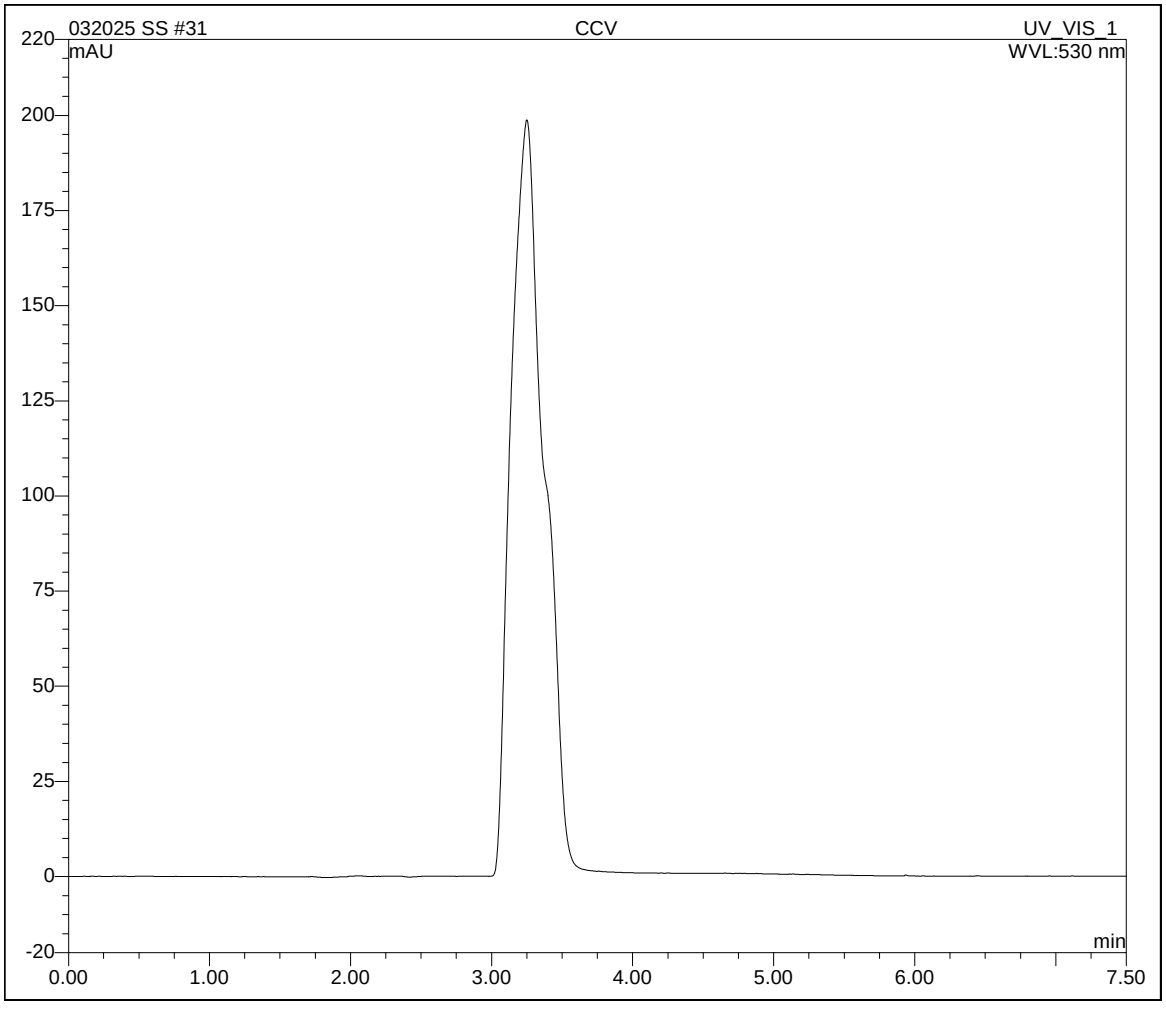
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:52**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



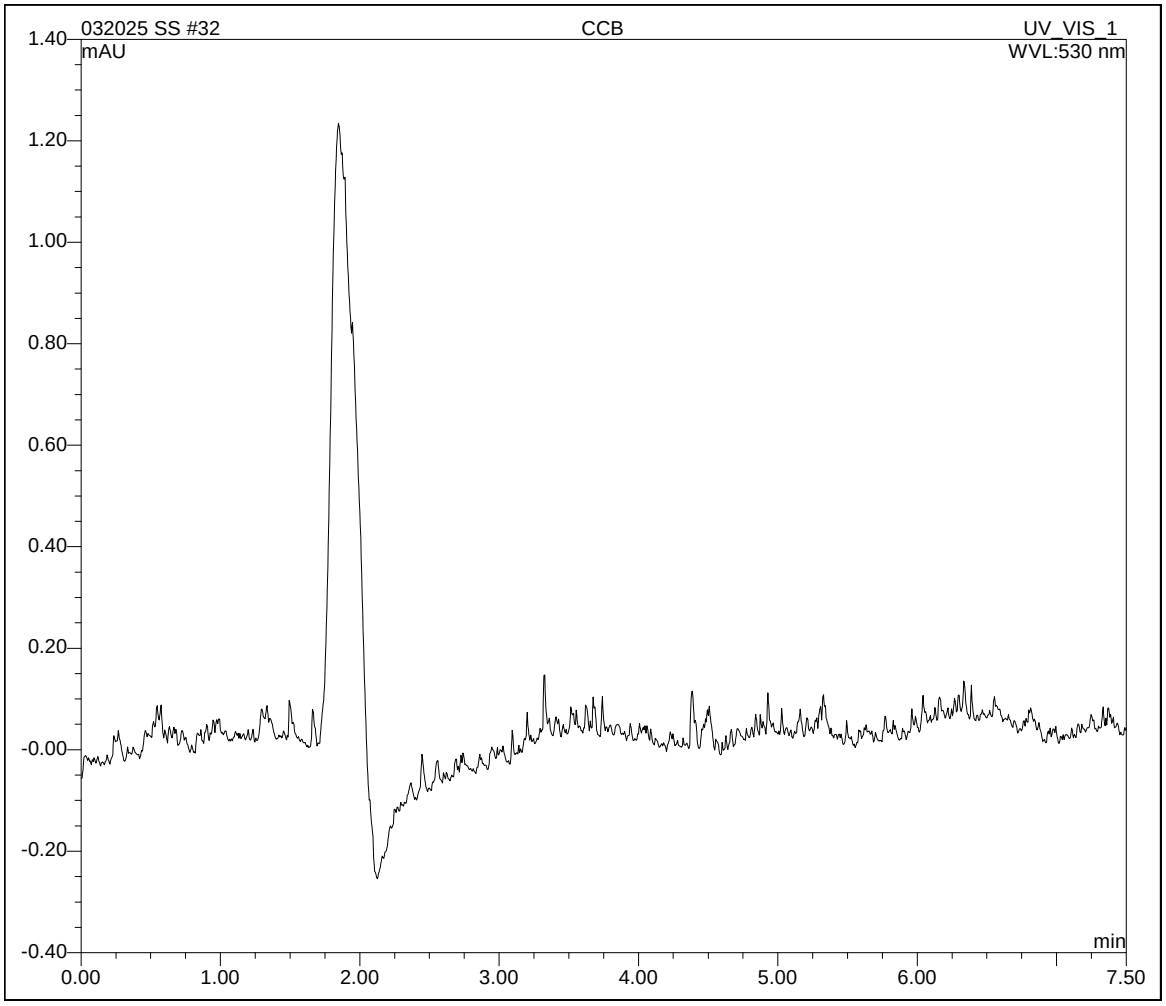
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 09:52**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



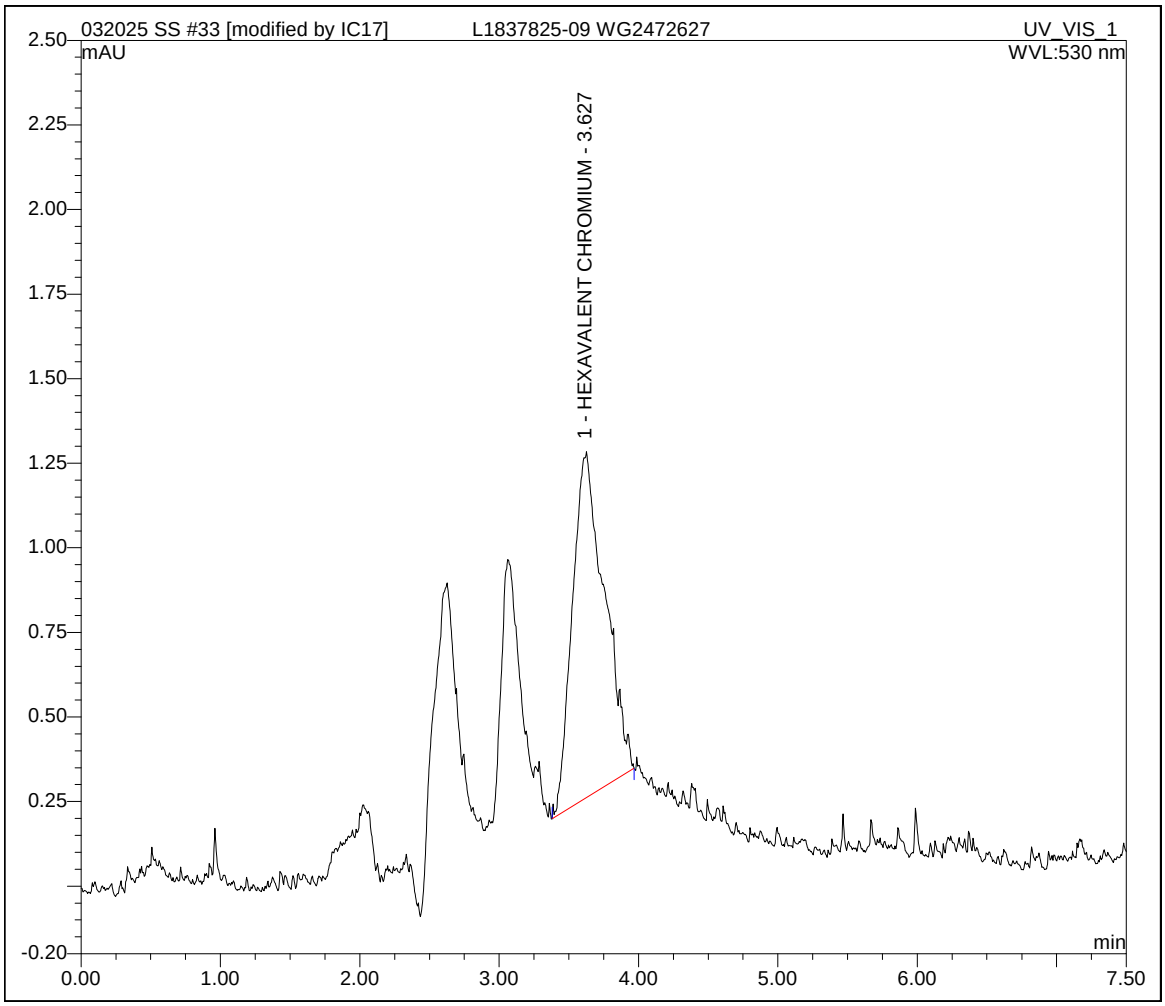
Sample Name:	**CCB**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 10:03**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



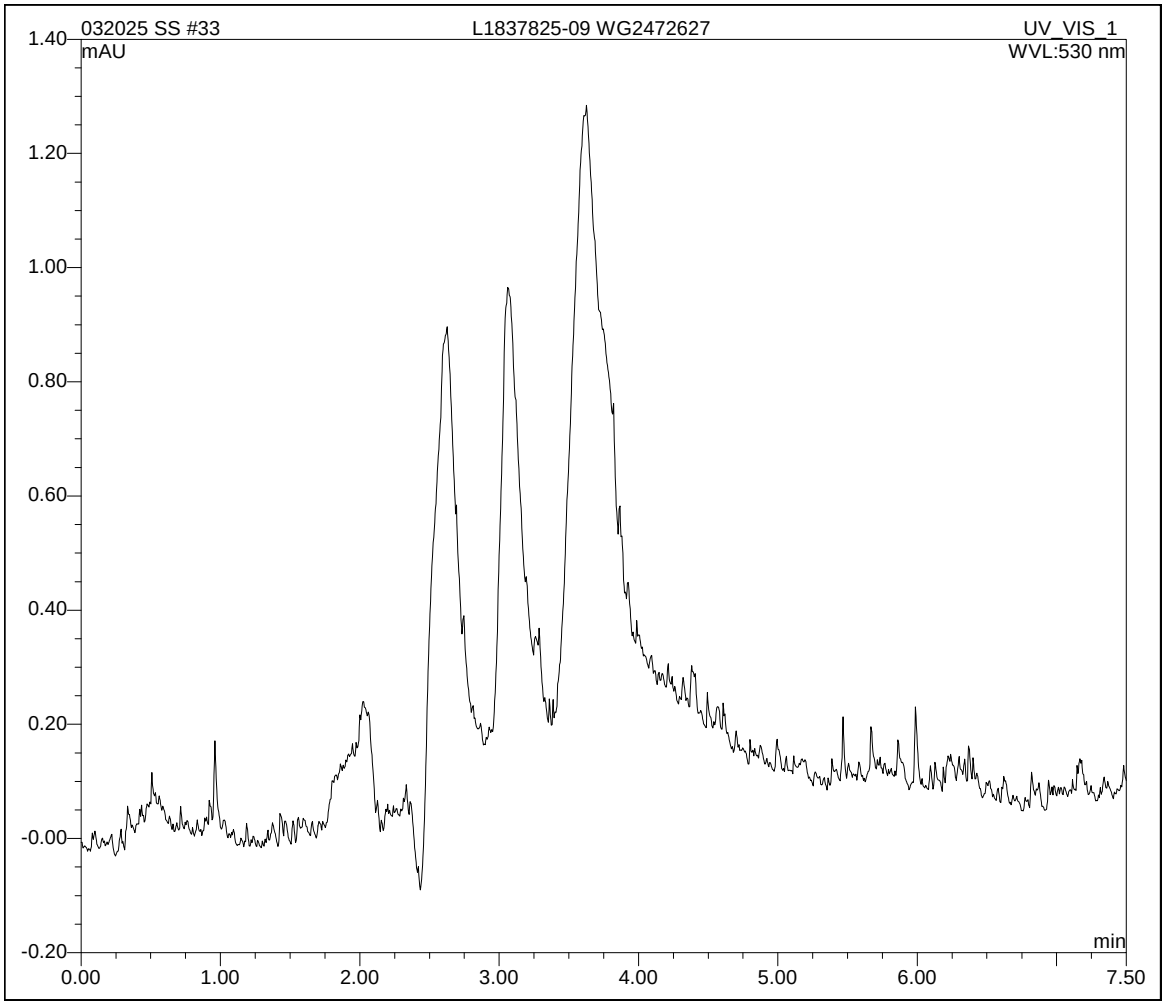
Sample Name:	**L1837825-09 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 10:37**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.63	HEXAVALENT CHROMIUM	BMB*	0.273	1.022	0.0014
		TOTAL:		0.27	1.02	0.00



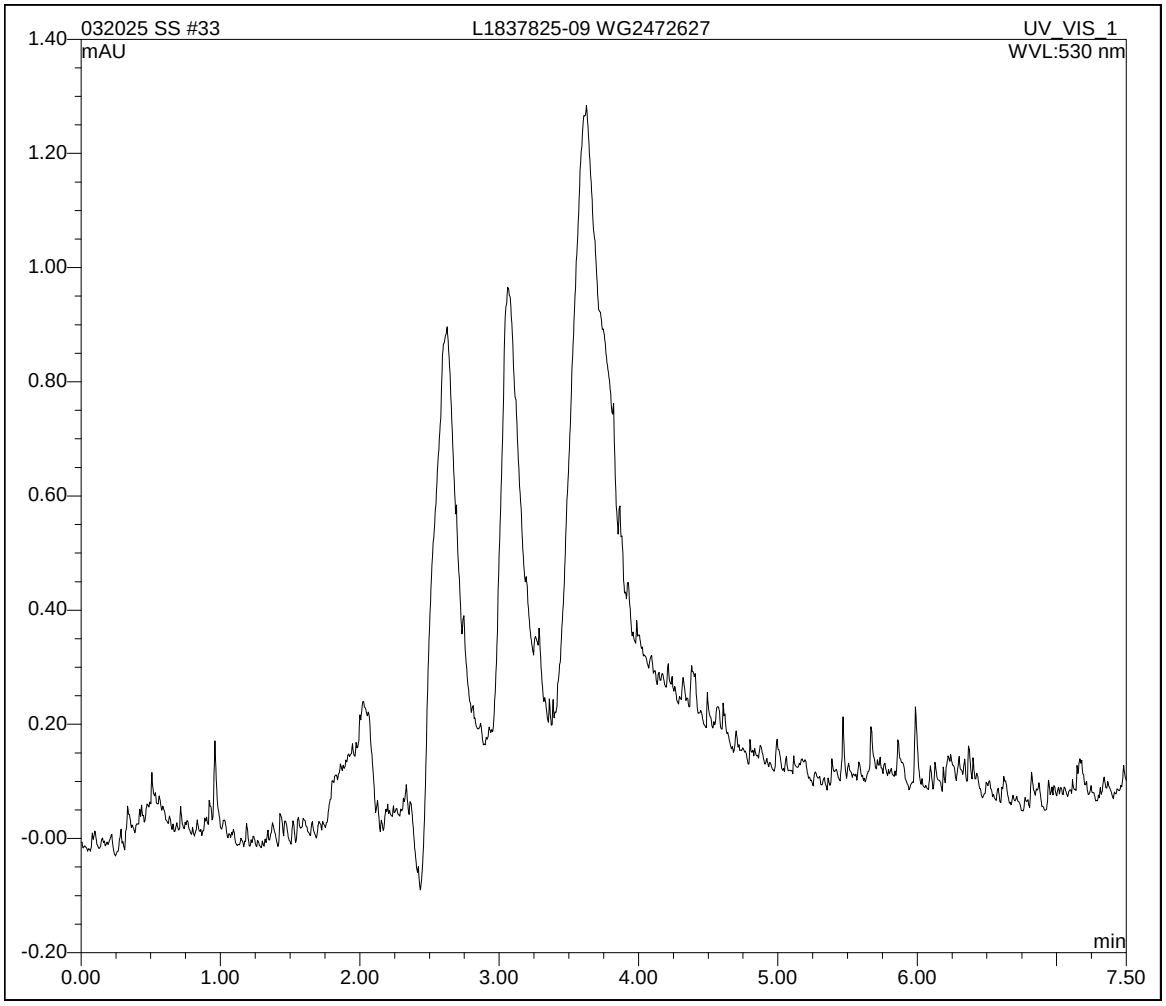
Sample Name:	**L1837825-09 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 10:37**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



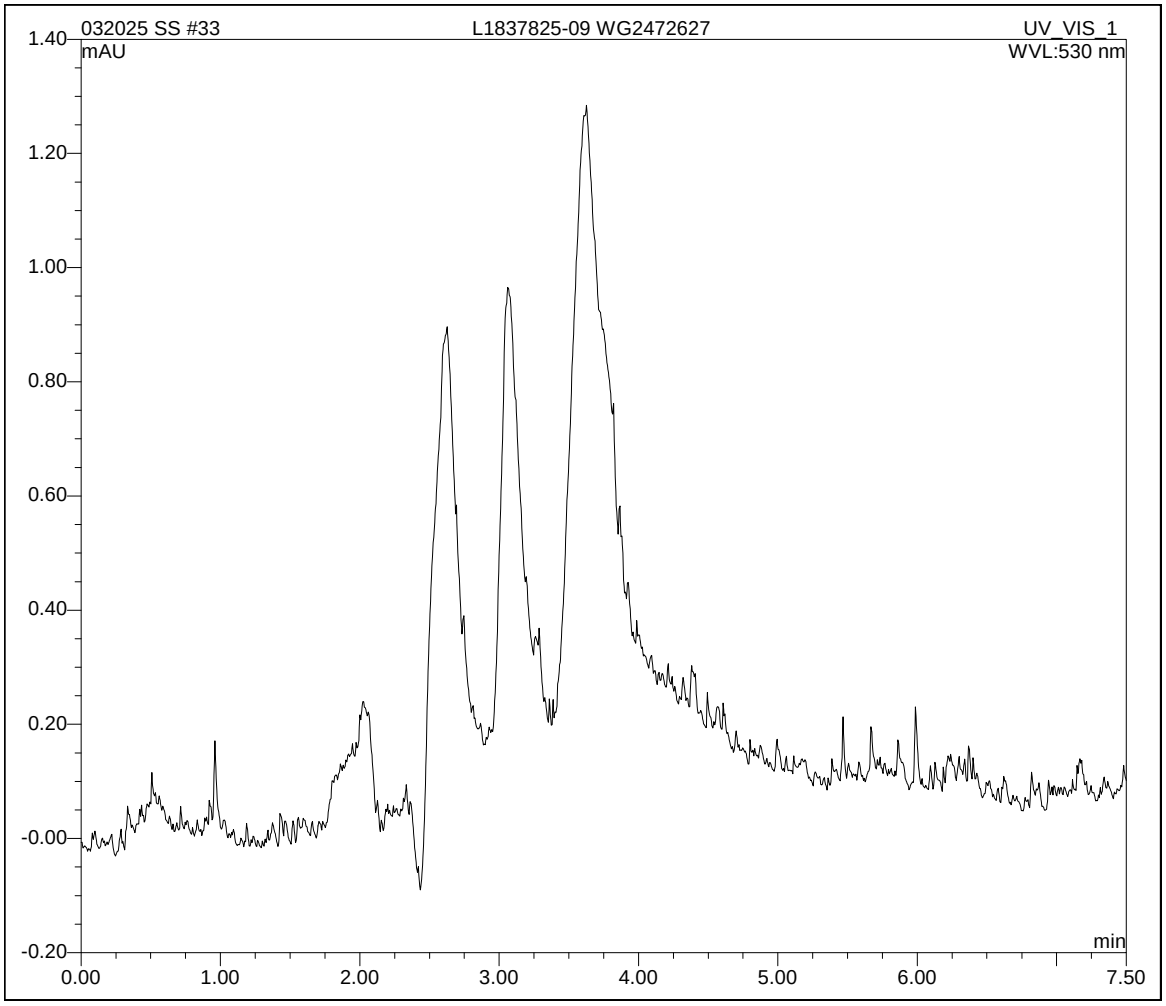
Sample Name:	**L1837825-09 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 10:37**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



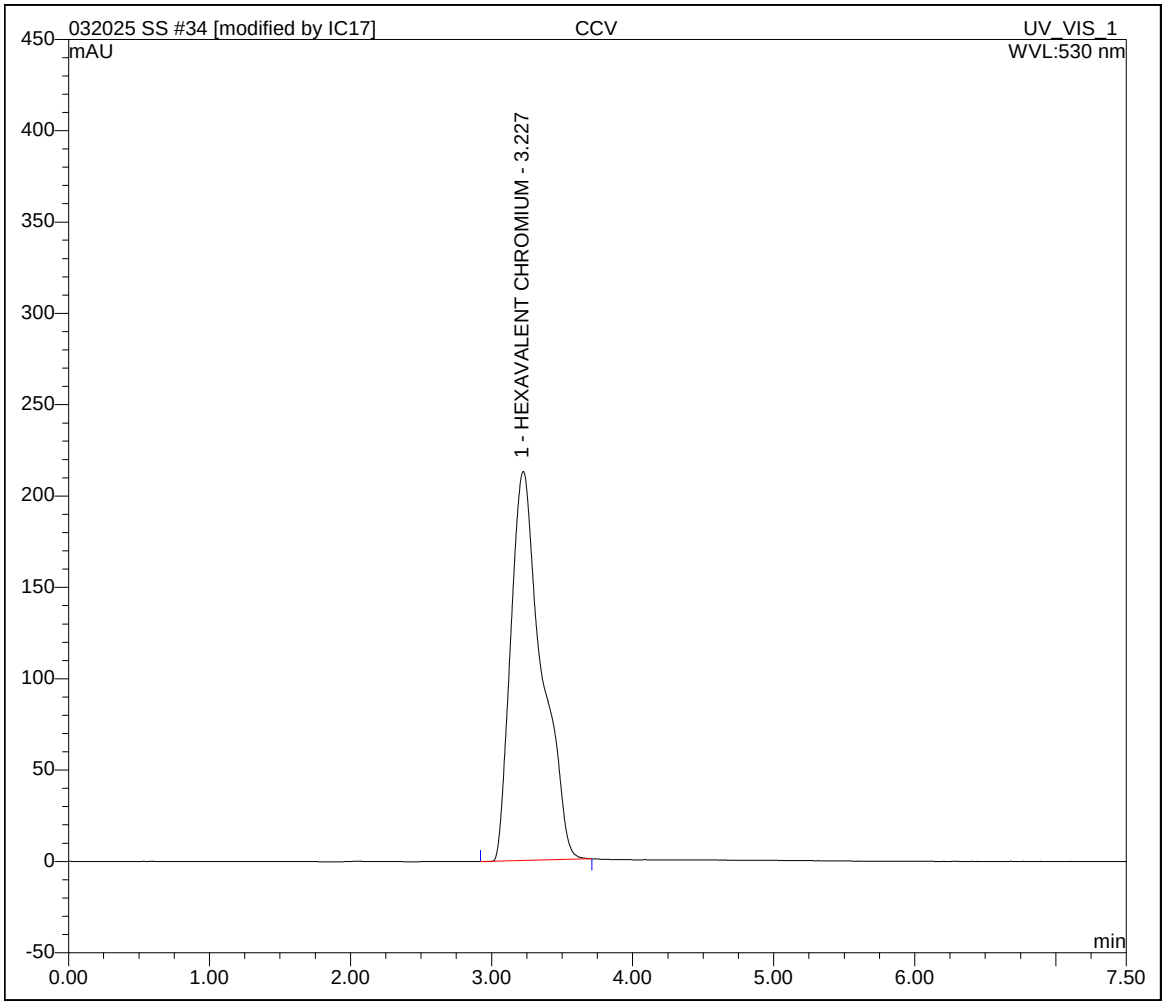
Sample Name:	**L1837825-09 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 10:37**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



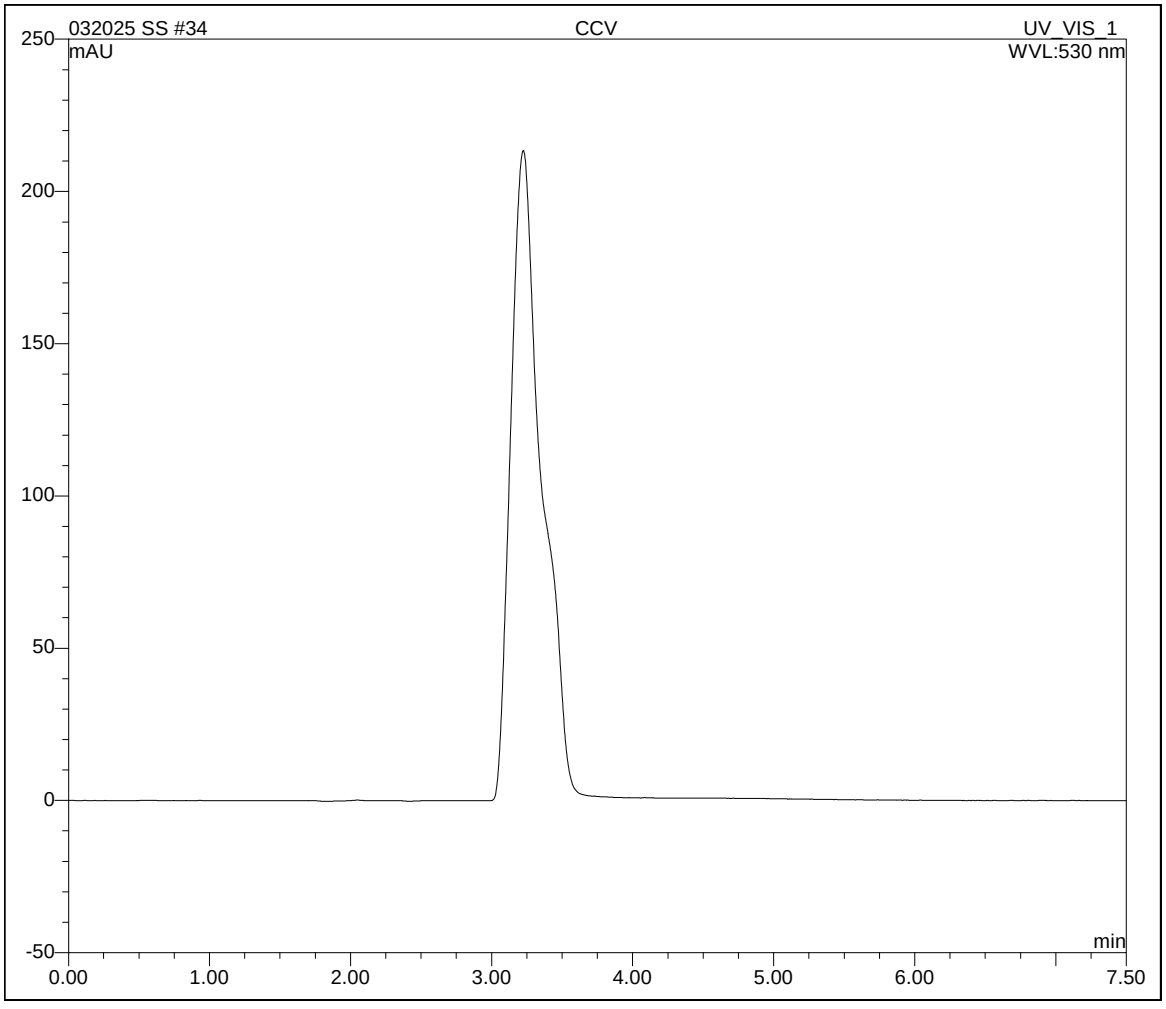
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 10:47**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.23	HEXAVALENT CHROMIUM	BMB*	54.051	212.940	0.5096
		TOTAL:		54.05	212.94	0.51



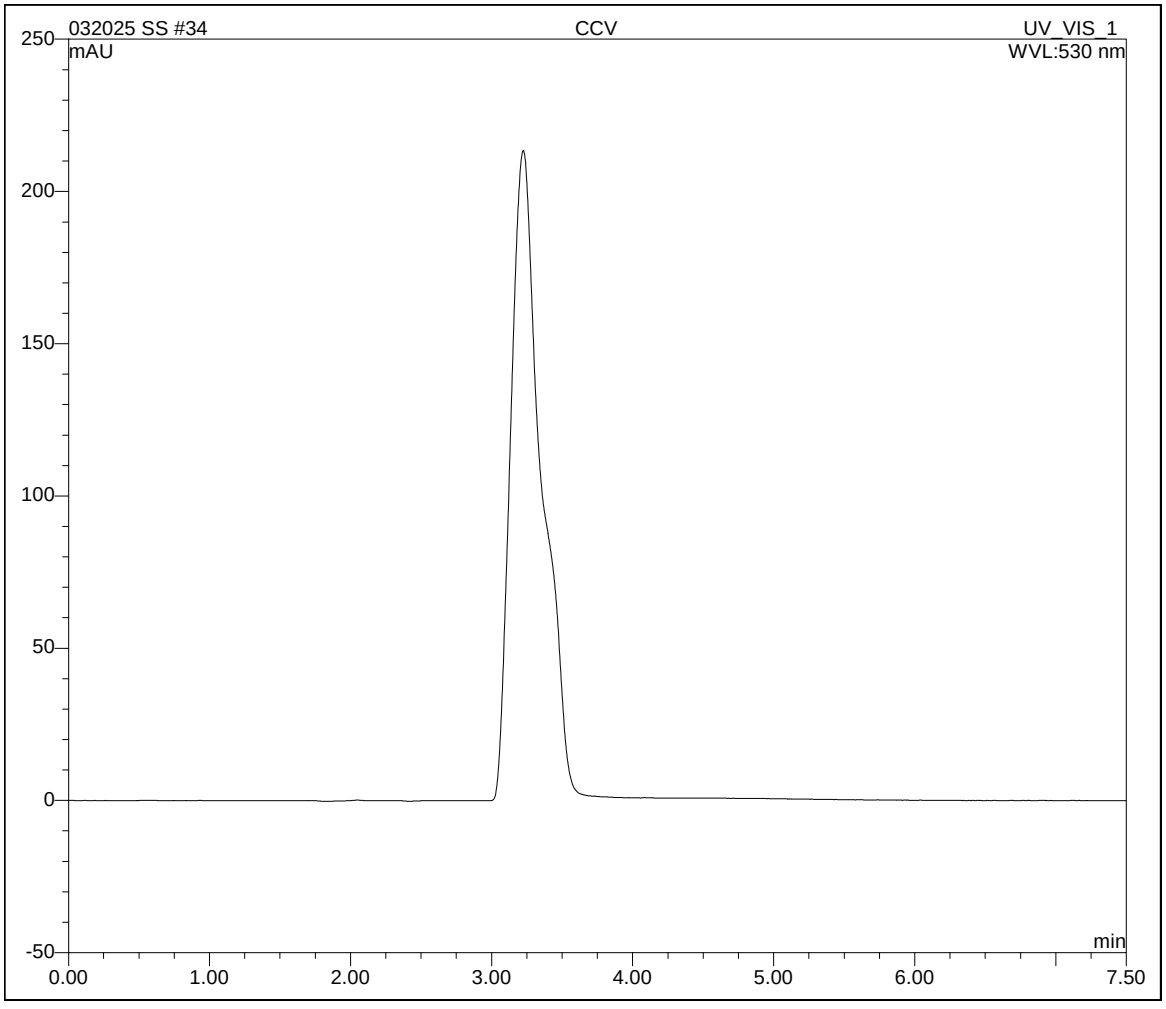
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 10:47**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



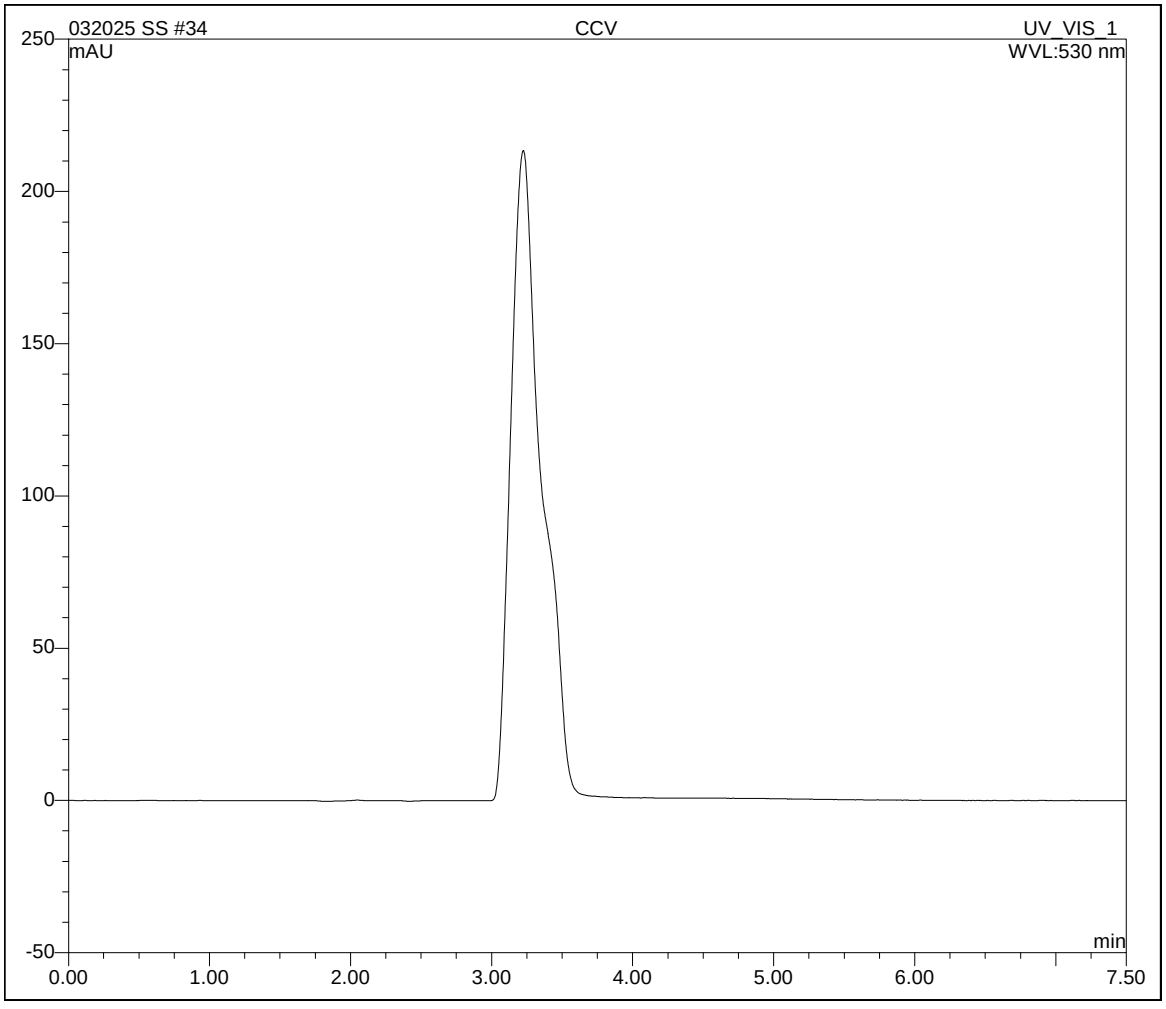
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 10:47**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



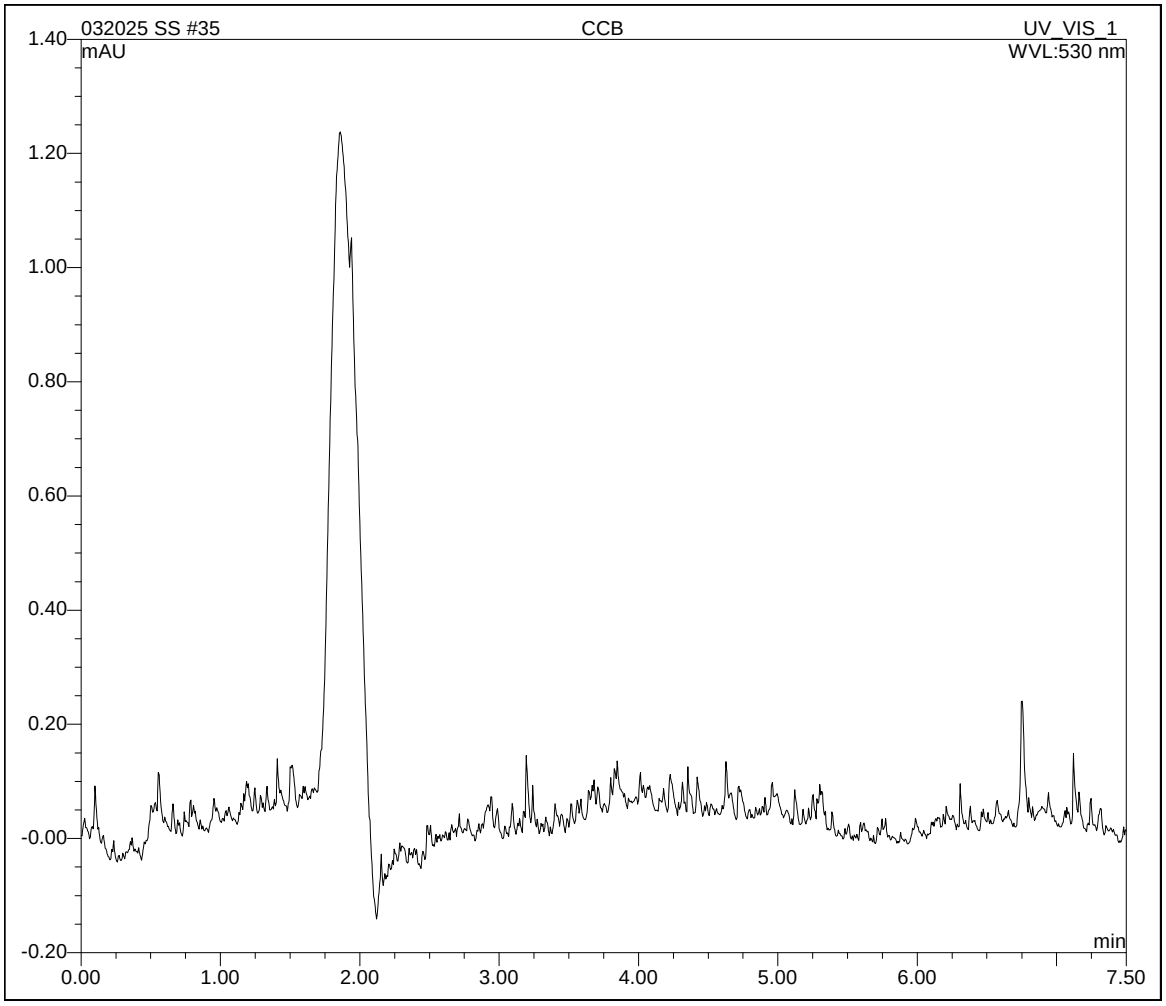
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 10:47**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



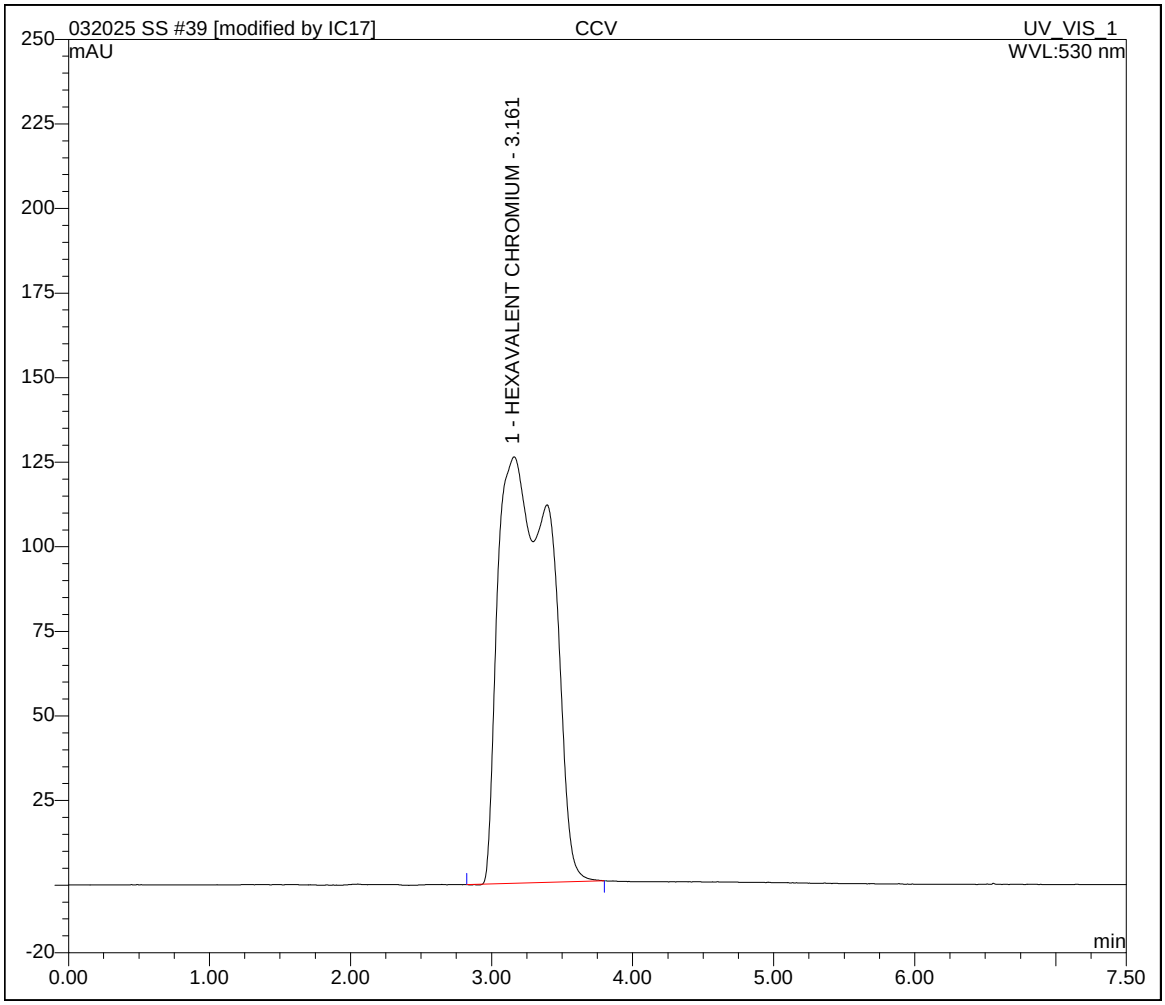
Sample Name:	**CCB**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 10:57**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



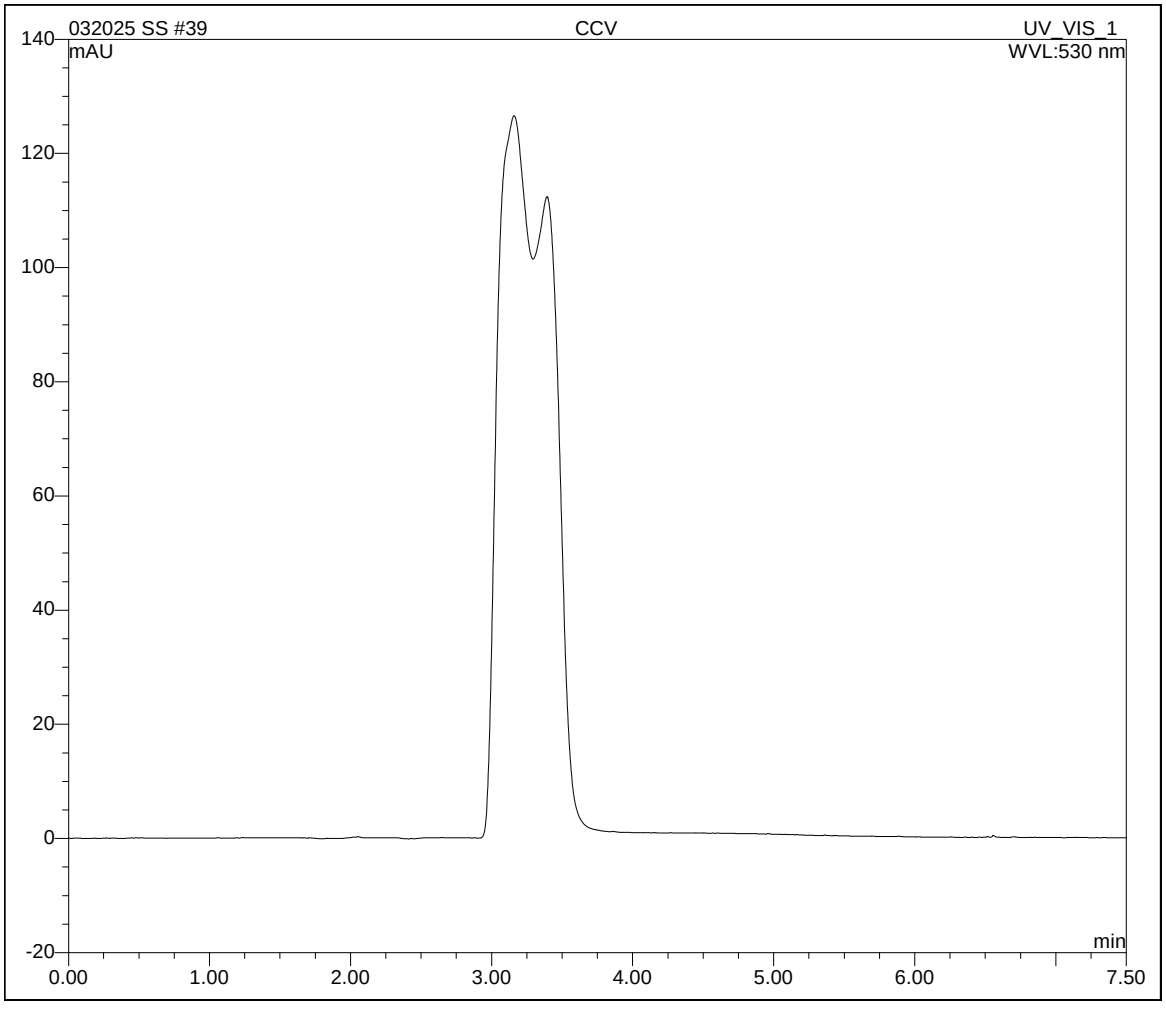
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032025**
Inj. Date/Time:	**03/20/25 12:01**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.16	HEXAVALENT CHROMIUM	BMB*	54.335	126.118	0.5123
		TOTAL:		54.33	126.12	0.51



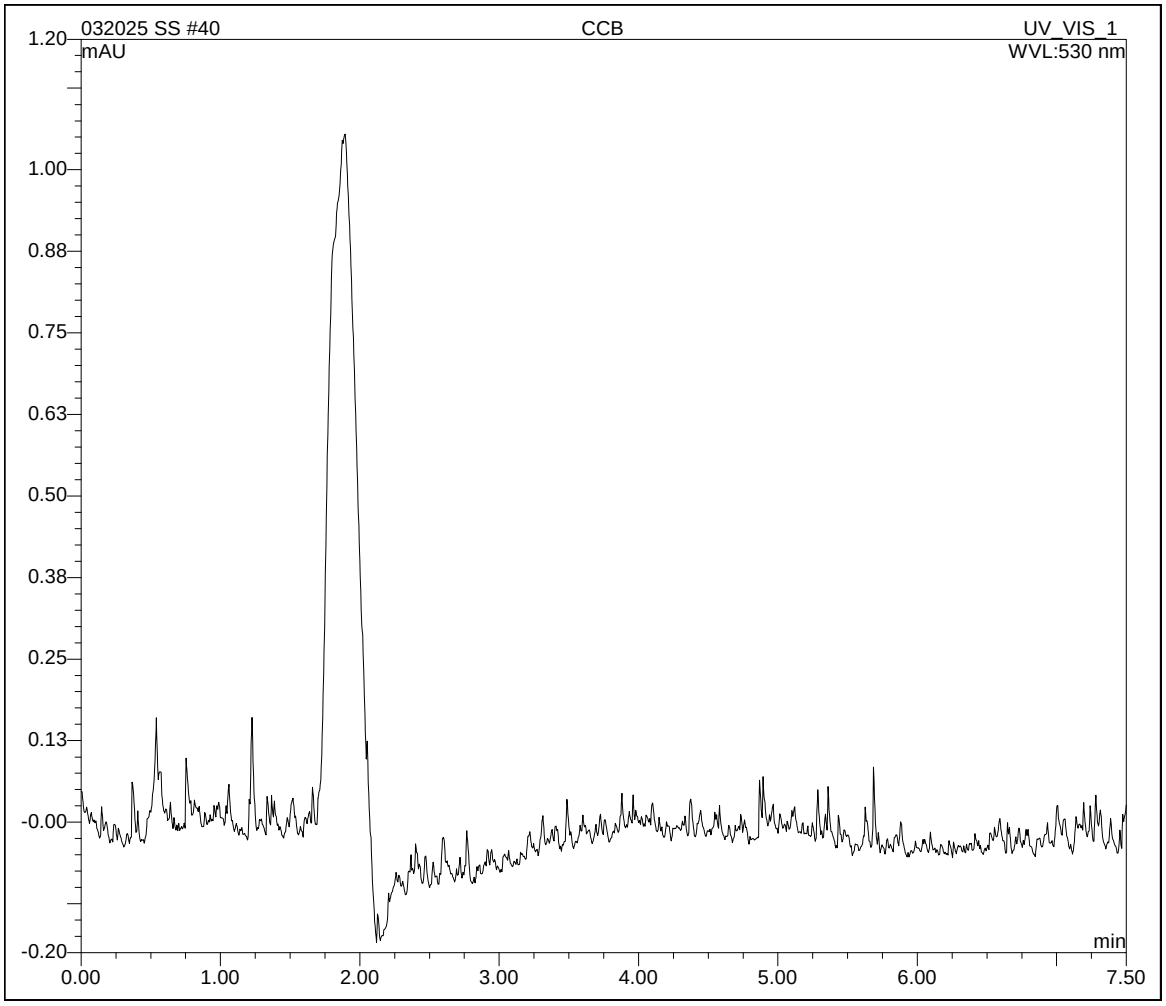
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 12:01**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



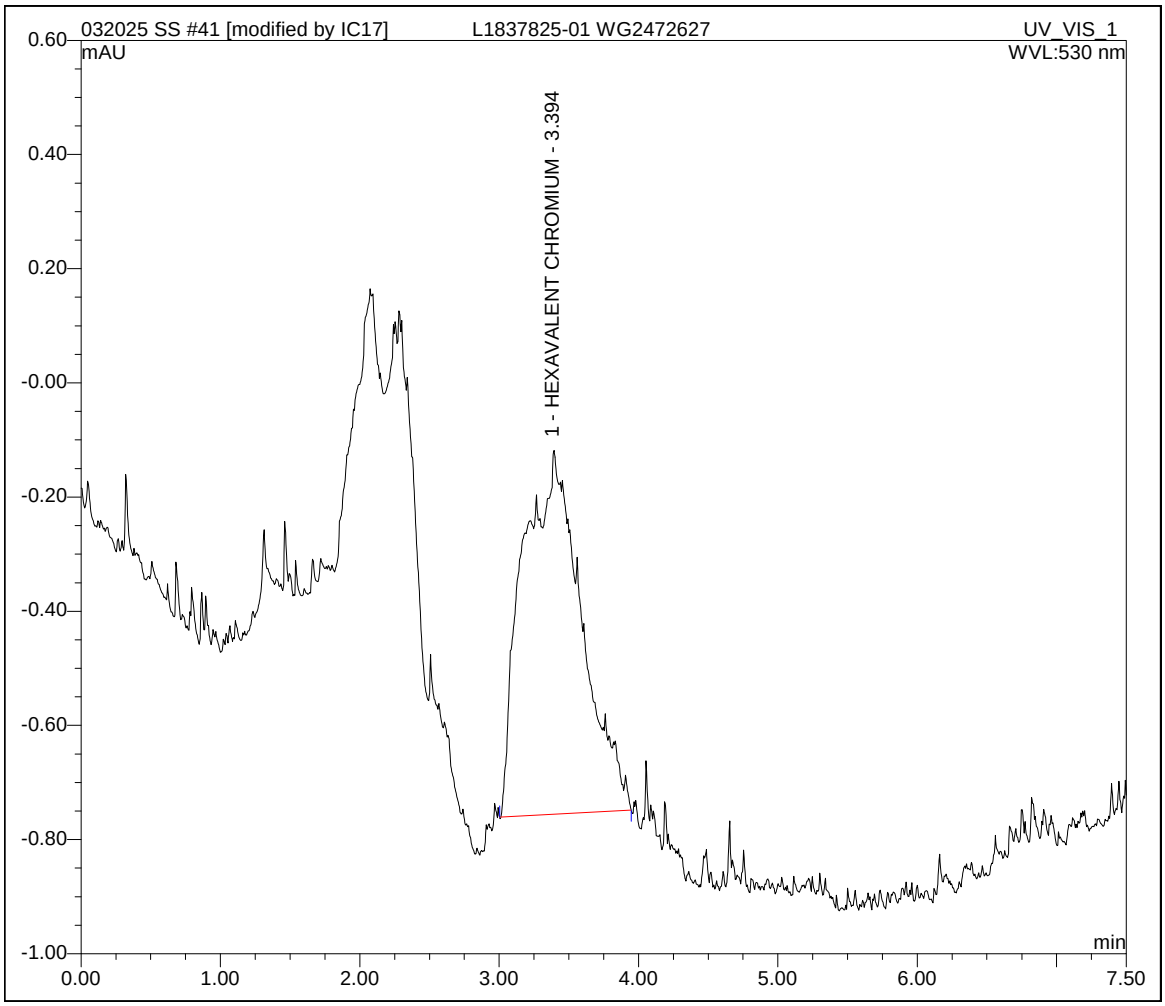
Sample Name:	**CCB**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/20/25 12:11**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



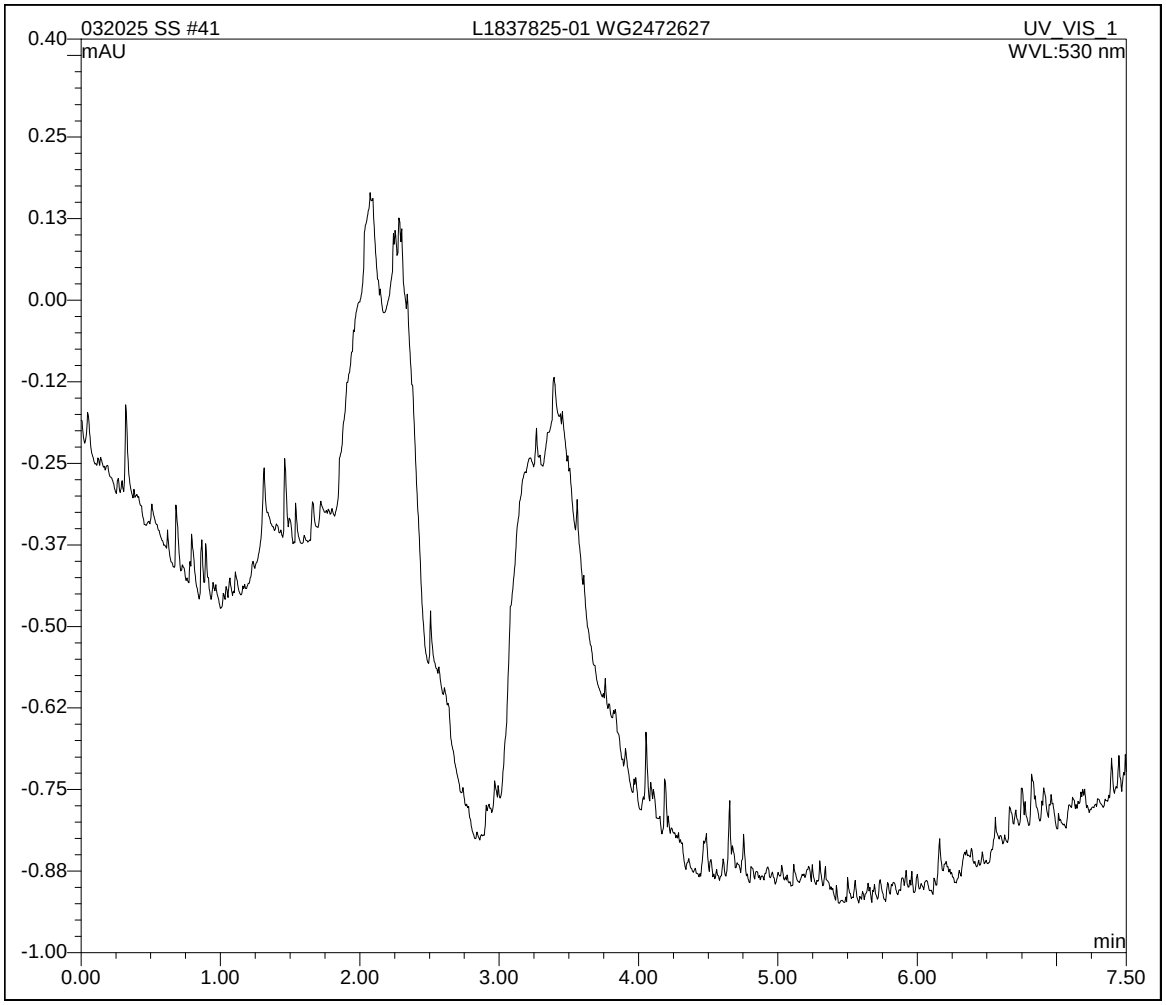
Sample Name:	**L1837825-01 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032125**
Inj. Date/Time:	**03/21/25 08:42**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.39	HEXAVALENT CHROMIUM	BMB*	0.310	0.638	0.0089
		TOTAL:		0.31	0.64	0.01



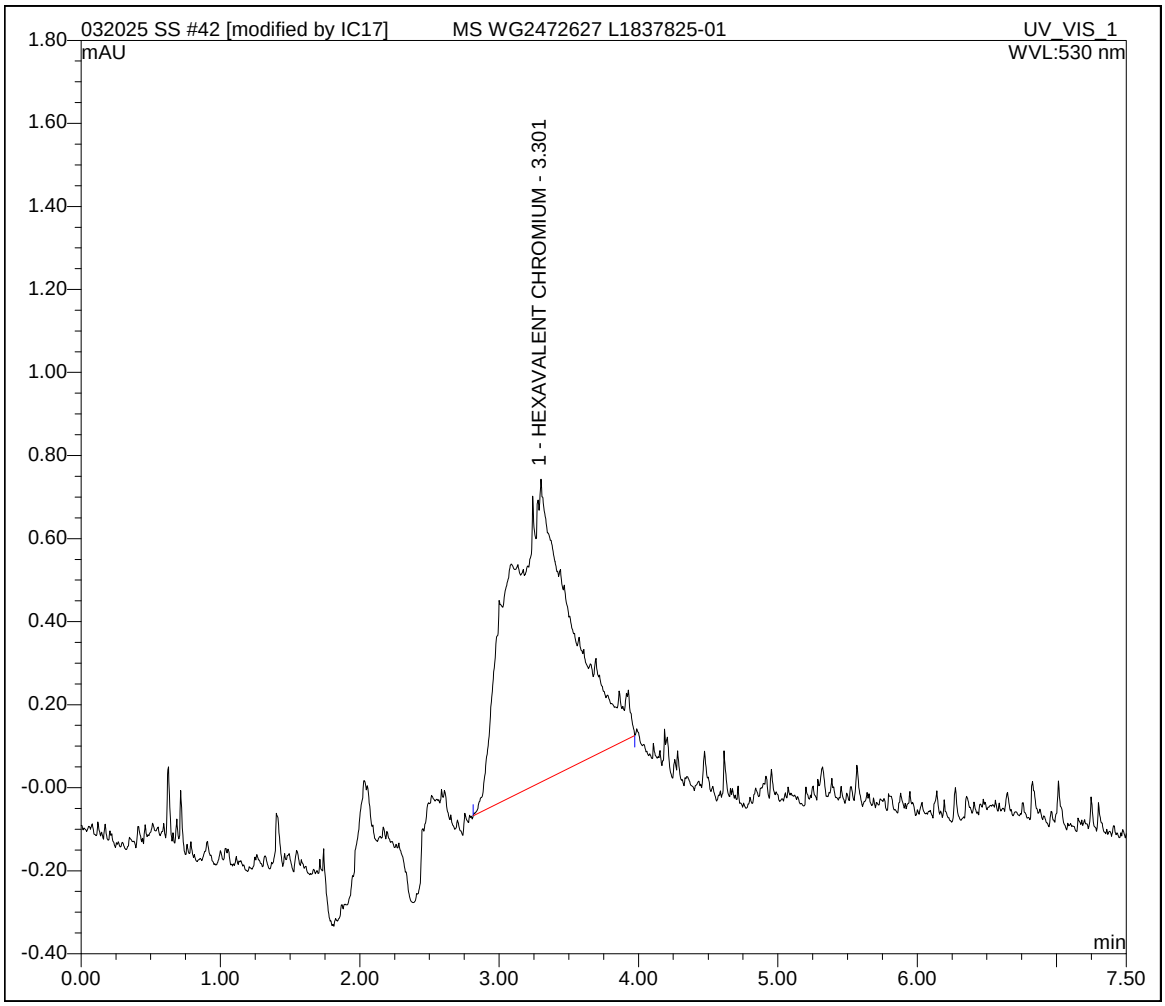
Sample Name:	**L1837825-01 WG2472627**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/21/25 08:42**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



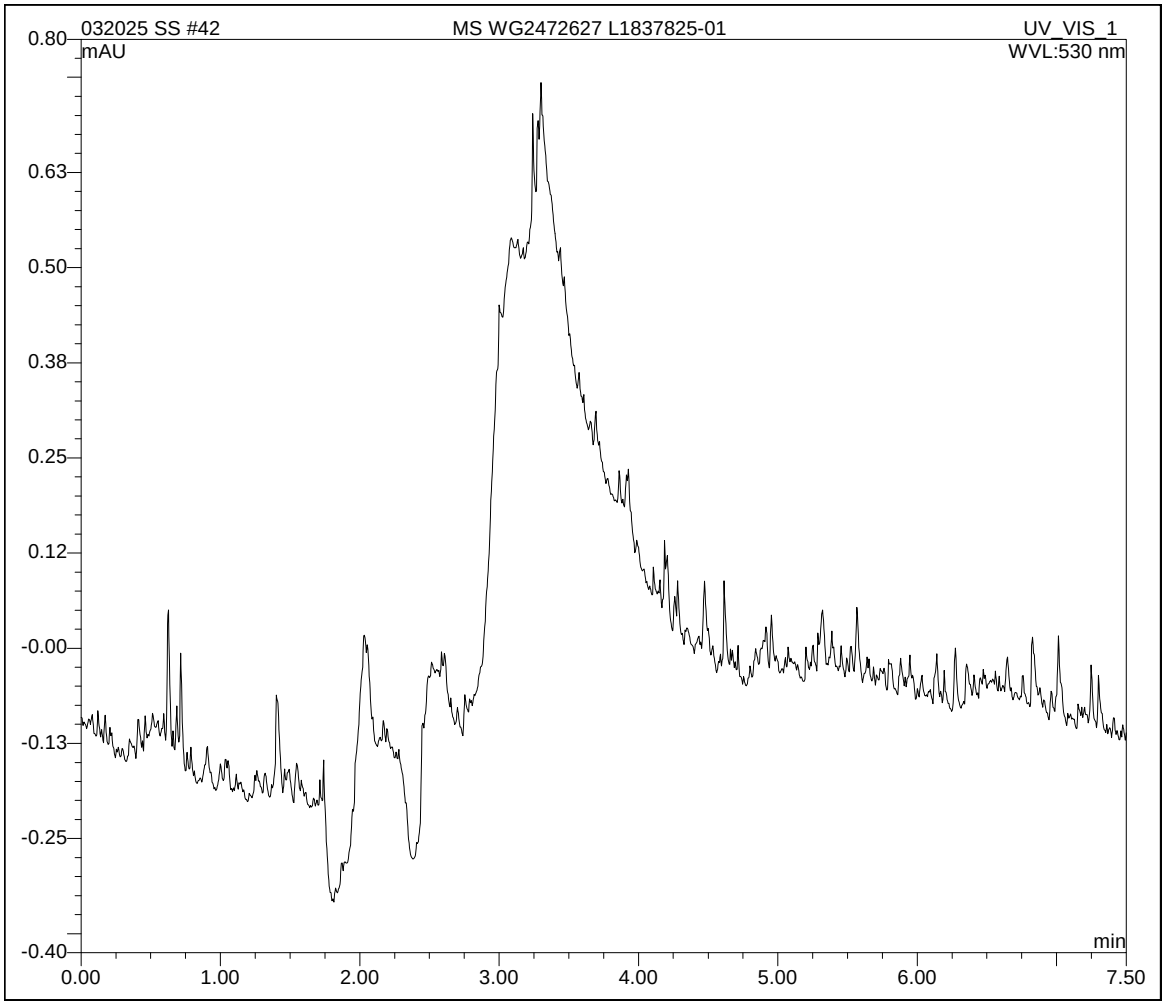
Sample Name:	**MS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032125**
Inj. Date/Time:	**03/21/25 08:52**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.30	HEXAVALENT CHROMIUM	BMB*	0.384	0.730	0.0124
		TOTAL:		0.38	0.73	0.01



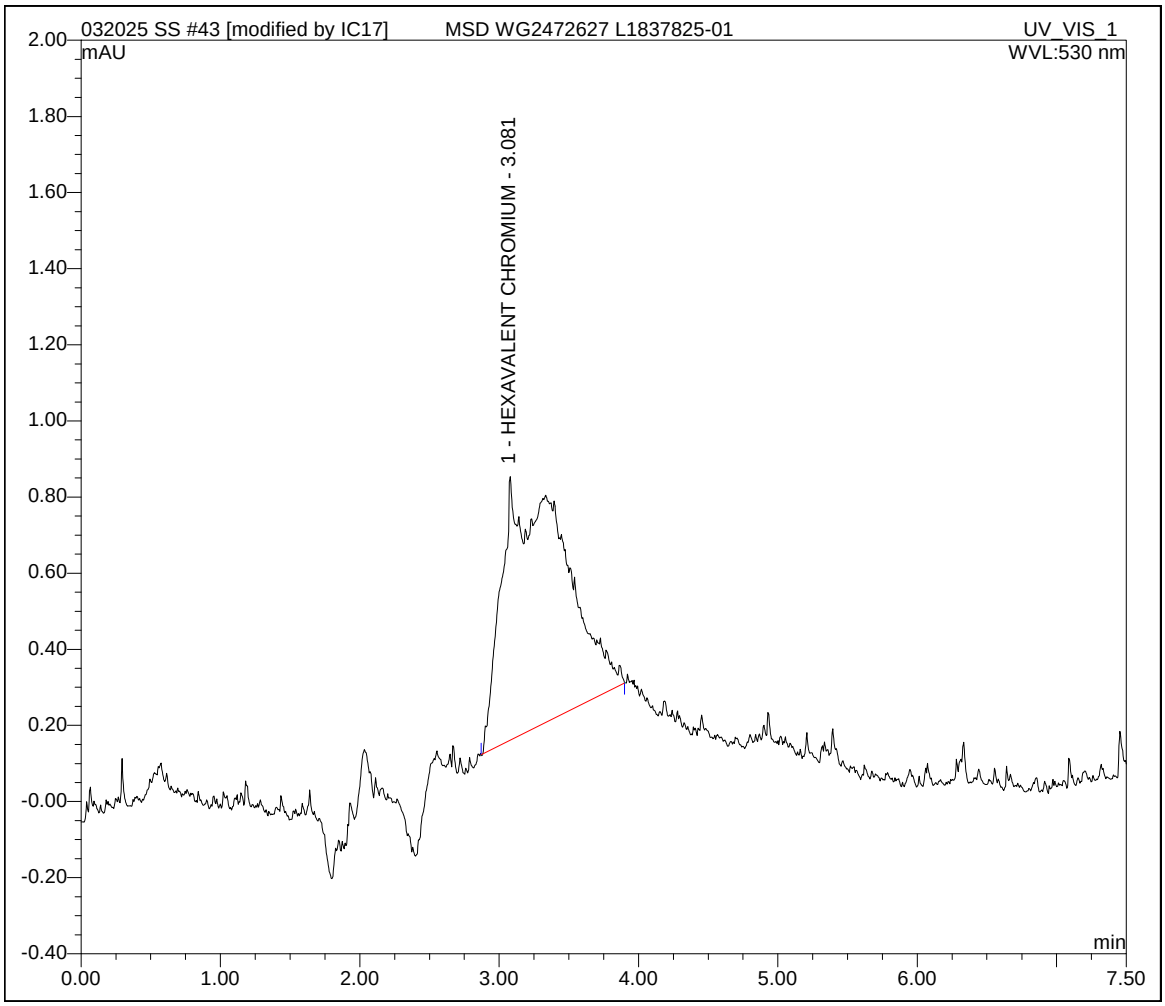
Sample Name:	**MS WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/21/25 08:52**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



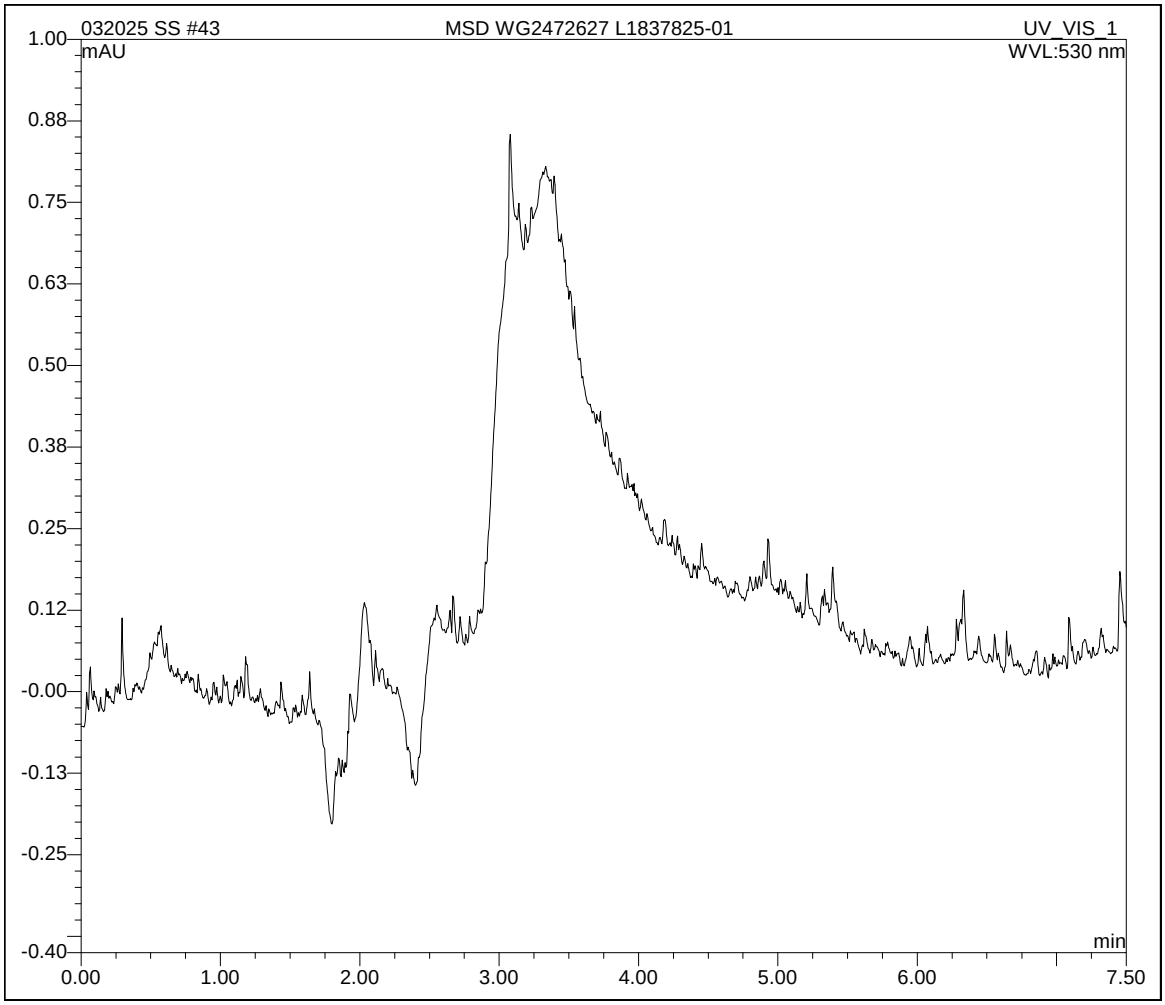
Sample Name:	**MSD WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032125**
Inj. Date/Time:	**03/21/25 09:03**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.08	HEXAVALENT CHROMIUM	BMB*	0.348	0.692	0.0107
		TOTAL:		0.35	0.69	0.01



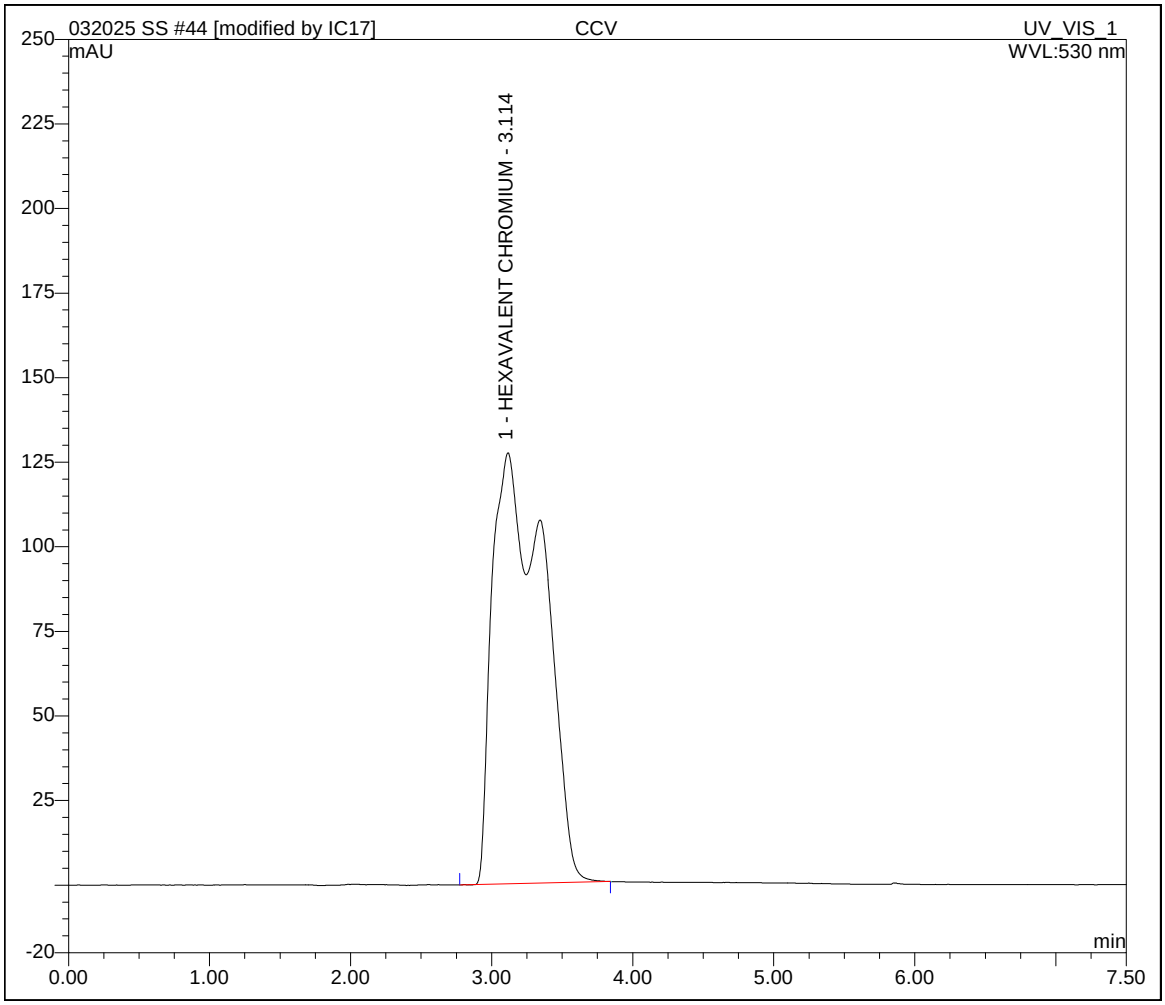
Sample Name:	**MSD WG2472627 L1837825-01**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**5.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/21/25 09:03**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



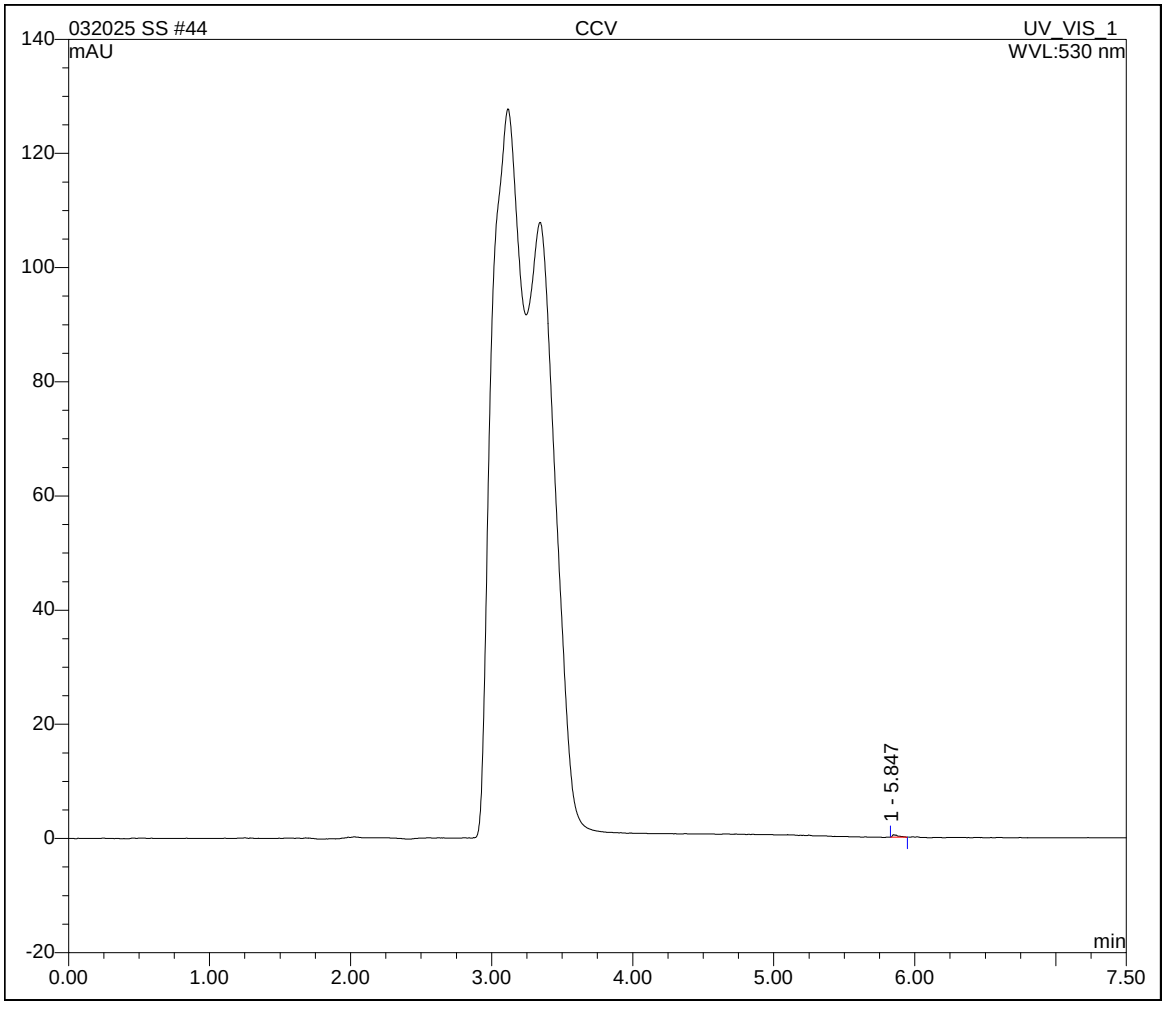
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**WP: EKB486 032125**
Inj. Date/Time:	**03/21/25 09:13**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
1	3.11	HEXAVALENT CHROMIUM	BMB*	53.937	127.405	0.5085
		TOTAL:		53.94	127.41	0.51



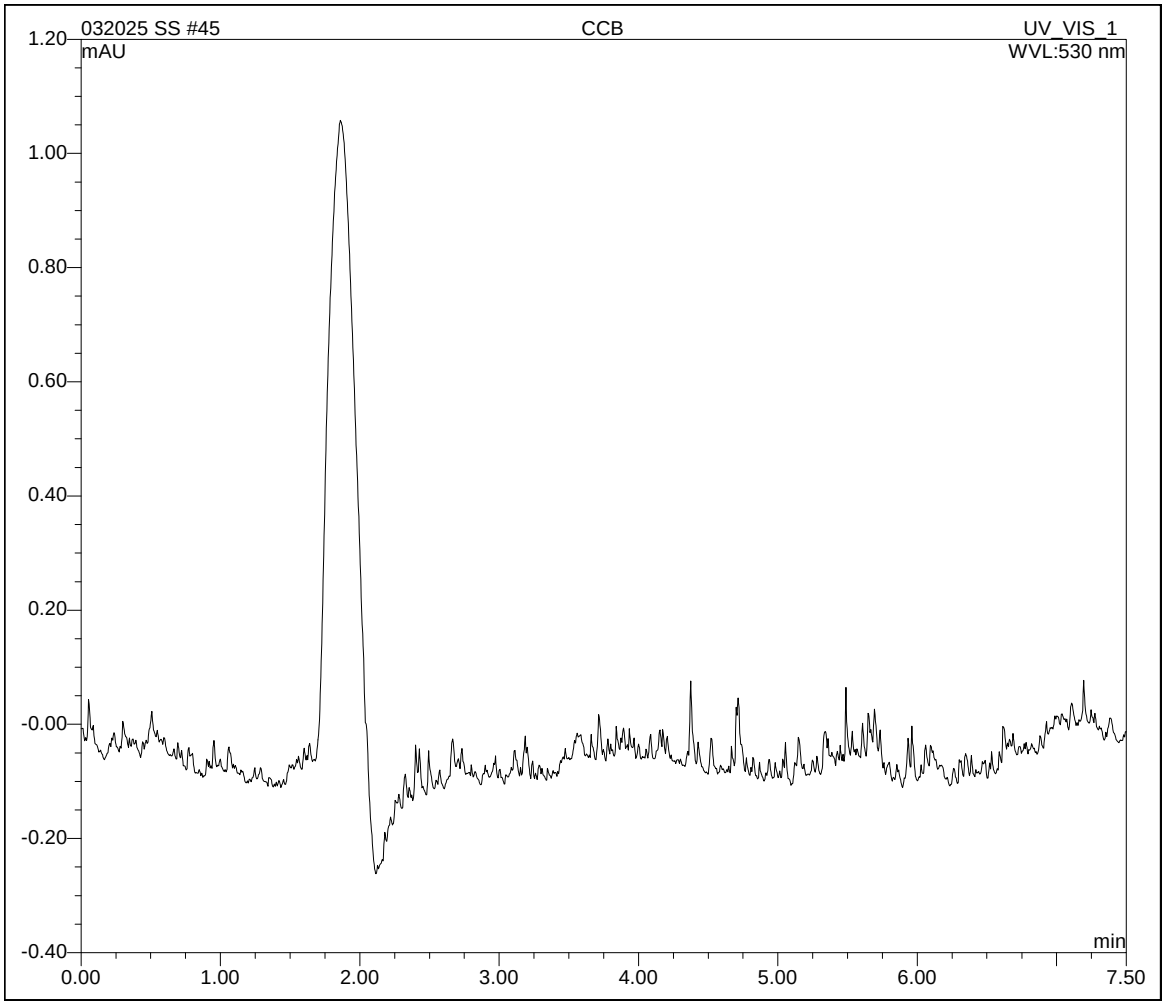
Sample Name:	**CCV**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/21/25 09:13**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



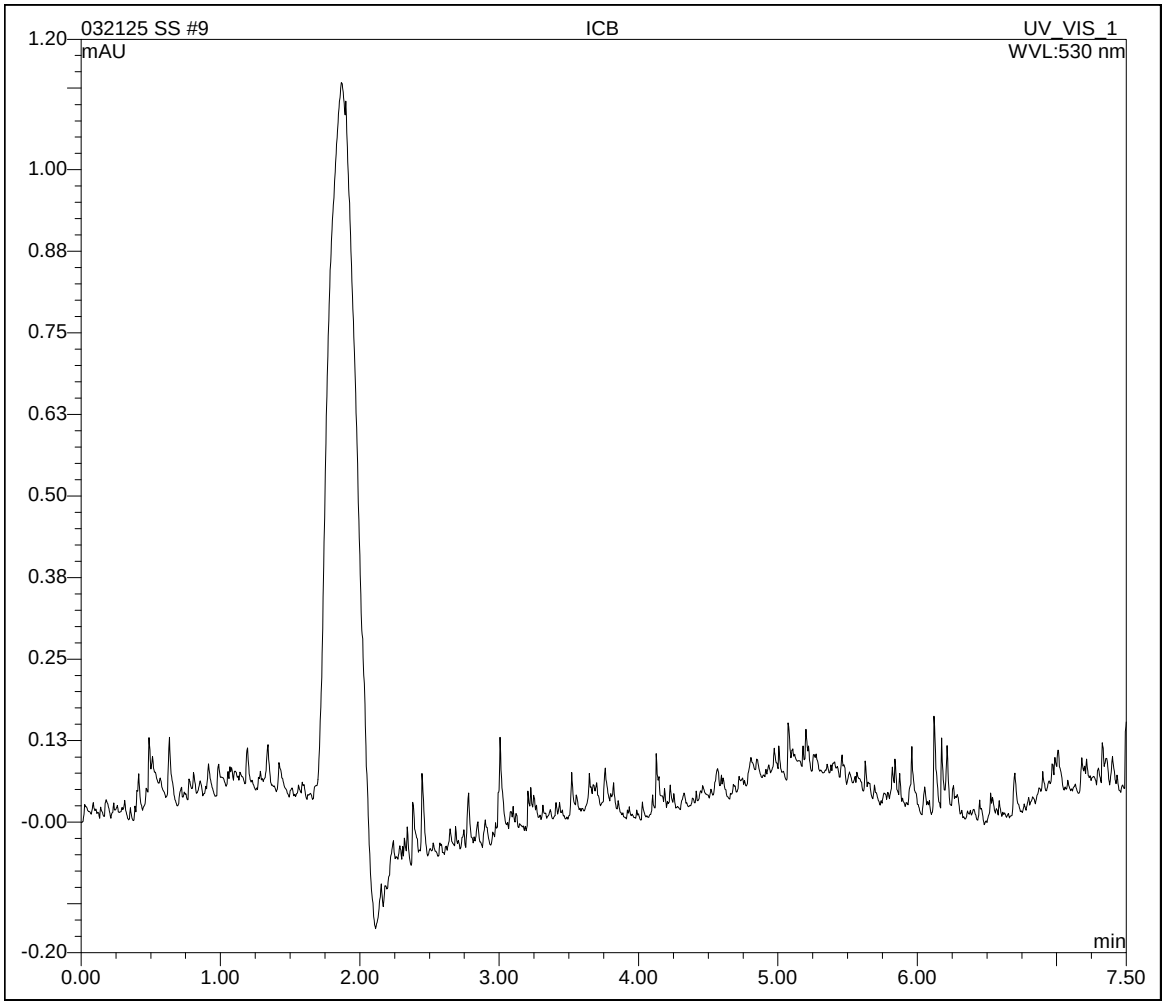
Sample Name:	**CCB**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	
Inj. Date/Time:	**03/21/25 09:24**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



Sample Name:	**ICB**	*Inj. Vol.:*	**1000.0**
Sample Type:	**unknown**	*Dilution Factor:*	**1.0000**
Program:	**CR6IC**	*Operator:*	**WETLABIC17**
		Comments:	**NI: EKB4186 032125**
Inj. Date/Time:	**03/21/25 10:01**	*Run Time:*	**7.50**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount
		TOTAL:		0.00	0.00	0.00



CR6IC SS Metals Prep Benchsheet

Batch: WG2472627

Analyst: VSS117 **Prep Start Date/Time:** 03/20/25 00:19-00:21 **Prep End Date/Time:** 03/20/25 06:17 **Dig Start Date/Time:** 03/20/25 02:18:00
Dig End Date/Time: 03/20/25 03:19:00 **Dig Start Analyst:** VSS117 **Dig End Analyst:** VSS117 **Digest Soln. pH:** 13.92 **Phosphate Buffer pH:** 7.54 **SOP:** MTJL-0201
Method: 3060A **Balance ID:** WETBAL13 **Instrument Name:** IC-25 **ICV True Value:** 0.5 ppm **LCS True Value:** 0.25ppm **ALTSTD True Value:** 0.25 ppm
MS/D True Value: 20 mg/kg **Syringe Lot#:** 241125 **0.45 PVDF Filter Lot#:** 329076081 **0.2 Nylon Filter Lot#:** 325116166 **10mL Pipette Lot#:** 101052037
5mL Pipette Lot#: NA **1mL Auto Pipette SN:** 101109405 **1mL Auto Pipette Tip Lot#:** 24240064 **IC Cap/Vial Lot#:** 3250-18351/LV24071515-4339-4343
Thermometer SN: 914872 **ThermoCorrectFact:** 0.0 **pH Probe SN:** CV1-13153 **pH Metals:** V18914 **Tongue Depressor Lot#:** P00638
HotBlock SN/ Therm. Location: CR6IC A/E7 **Digestion Tube Lot #:** LV2408024-5014-TP **IR Gun ID:** NA **Cal Reference WG:** NA **Uncorr Temp Off:** 92
Uncorr Temp On: 93 **Corrected Temp Off:** 92 **Corrected Temp On:** 93 **Timer SN:** 240459285

ICV Standard: 25C20016 Amt. Used: 5 mL Exp. Date:03/20/25 **LCS/D Standard:** 25C19014 Amt. Used: 5 mL Exp. Date:03/20/25
MS/D Standard: 25C19014 Amt. Used: 10 mL Exp. Date:03/20/25 **Calibration Standard:** 25C20018 Exp. Date:03/20/25
Digestion Solution: 25C17509 Amt. Used: 50 mL Exp. Date:04/17/25 **MgCl2:** 24J29807 Amt. Used: 0.20 g Exp. Date:12/12/26
1.0M Phosphate Solution: 25C19836 Amt. Used: 0.50 mL Exp. Date:02/27/27 **5N HNO3:** 25C14220 Exp. Date:06/14/25 **Eluent:** 25C18583 Exp. Date:04/18/25
Color Reagent: 25C18587 Exp. Date:03/21/25 **PbCrO4:** 23E16030 Amt. Used: 0.01 g Exp. Date:04/24/33 **Sand:** 24J29806 Amt. Used: 2.50 g Exp. Date:02/28/28

Sample Number	Initial Sample Wt. (g)	Final Volume (mL)	Dilution Factor	1stTemp/CorrectTemp (C°)	2ndTemp/CorrectTemp (C°)	Final Adjusted pH	Date/Time pH adj.	Review Analyst	Review Date
BLANK	2.53	100	1	93/93	92/92	9.31	032025 0415	VSS117	03/20/25 06:17:26
LCS	2.49	100	1	93/93	92/92	9.47	032025 0415	VSS117	03/20/25 06:17:26
DUP(L1837825-04)	2.52	100	1	93/93	92/92	9.10	032025 0415	VSS117	03/20/25 06:17:26
DUP(L1837825-11)	2.45	100	1	93/93	92/92	9.27	032025 0415	VSS117	03/20/25 06:17:26
MS(L1837825-01)	2.54	100	1	93/93	92/92	9.20	032025 0415	VSS117	03/20/25 06:17:26
MSD(L1837825-01)	2.48	100	1	93/93	92/92	9.38	032025 0415	VSS117	03/20/25 06:17:26
Ins MS(L1837825-01)	2.51	100	1	93/93	92/92	9.17	032025 0415	VSS117	03/20/25 06:17:26
1. L1837825-01	2.49	100	1	93/93	92/92	9.25	032025 0415	VSS117	03/20/25 06:17:26
2. L1837825-02	2.54	100	1	93/93	92/92	9.24	032025 0415	VSS117	03/20/25 06:17:26
3. L1837825-03	2.51	100	1	93/93	92/92	9.39	032025 0415	VSS117	03/20/25 06:17:26
4. L1837825-04	2.54	100	1	93/93	92/92	9.24	032025 0415	VSS117	03/20/25 06:17:26
5. L1837825-05	2.53	100	1	93/93	92/92	9.34	032025 0415	VSS117	03/20/25 06:17:26
6. L1837825-06	2.48	100	1	93/93	92/92	9.40	032025 0415	VSS117	03/20/25 06:17:26
7. L1837825-07	2.50	100	1	93/93	92/92	9.32	032025 0415	VSS117	03/20/25 06:17:26
8. L1837825-08	2.46	100	1	93/93	92/92	9.44	032025 0415	VSS117	03/20/25 06:17:26
9. L1837825-09	2.52	100	1	93/93	92/92	9.38	032025 0415	VSS117	03/20/25 06:17:26
10. L1837825-10	2.51	100	1	93/93	92/92	9.33	032025 0415	VSS117	03/20/25 06:17:26
11. L1837825-11	2.49	100	1	93/93	92/92	9.29	032025 0415	VSS117	03/20/25 06:17:26

Comments:

Reviewed By: VSS117 on 03/20/25 06:17:26

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Coef1	First Order Coefficient.
Coef2	Second Order Coefficient.
Corr.	Correlation Coefficient.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Incpt	Intercept.
Mass	Mass of parameter.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RSD	Relative Standard Deviation.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Wavelength	Wavelength of parameter.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

GLOSSARY OF TERMS

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
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Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Haley & Aldrich-Phoenix, AZ

400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Billing Information:
Attn: Accounts Payable
70 Blanchard Rd., Ste. 204
Burlington, MA 01803-5100

Pres Chk

Report to:
Samantha Kaney 602-760-2420

Email To: **skaney@haleyaldrich.com**

Project Description:

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
0213103-000

Lab Project #
HALALDPAZ-EVERGY

Collected by (print):
S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
____ Same Day X Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day ____ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

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MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

L1834645
E124
L1837825
3/19/25

Acctnum: **HALALDPAZ**
Template: **T269254**
Prelogin: **P1135616**
PM: **288 - Daphne Richards**
PB: BF 2/27/25
Shipped Via: **FedEX Standard**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CR6,SULFATE,TS 4ozClr-NoPres	CR6ICFFP 50mlTube/plungerPres	Diss Metals, CR6LL 250mlHDPE-NoPres	Metals 2ozClr-NoPres Mercury 74718 Sub out ICS	SULFATE 125mlHDPE-NoPres	Total Metals Metals 250mlHDPE-HNO3	Ra-226, Ra-228 **	% moisture			Remarks	Sample # (lab only)
Montrose_School_Ditch_I_So	Comp	SS	0-1	3/10/25	1050	3Z	X			X			X	X				-01
Montrose_School_Drains_I_So	Comp	SS	0-1	3/10/25	1120	3Z	X			X			X	X				-02
650_851_I_So	Comp	SS	0-1	3/10/25	1155	3Z	X			X			X	X				-03
600_I_I_So	Comp	SS	0-1	3/10/25	1235	3Z	X			X			X	X				-04
250_651_I_So	Comp	SS	0-1	3/10/25	1310	3Z	X			X			X	X				-05
Davis_School_Ditch_I_So	Comp	SS	0-1	3/10/25	1350	3Z	X			X			X	X				-06
Davis_School_Drains_I_So	Comp	SS	0-1	3/10/25	1415	3Z	X			X			X	X				-07
Davis_School_Front_Playground_I_So	Comp	SS	0-1	3/10/25	1445	3Z	X			X			X	X				-08
Davis_School_Playground_I_So	~~Comp~~ Grab	SS	0-1	3/10/25	1510	3Z	X			X			X	X				-09
Davis_School_Track_I_So	Comp	SS	0-1	3/10/25	1535	3Z	X			X			X	X				-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:CR6LL has a 24hr hold time ✓ SW7196A and EPA 7199
****EPA 903/904 and ARSL 300 Ra-228**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier

Tracking # 4439 2438 8572

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: __Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	3/10/25	1800	FedEx		<500 CPM
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.4 °C +0.4=2.8 Bottles Received: 55	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-11-25 Time: 0900	Hold: Condition: NCF / OK

Company Name/Address:
Haley & Aldrich-Phoenix, AZ

400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Billing Information:
Attn: Accounts Payable
70 Blanchard Rd., Ste. 204
Burlington, MA 01803-5100

Pres Chk

Report to:
Samantha Kaney 602-760-2420

Email To: **skaney@haleyaldrich.com**

Project Description:

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
0213103-002

Lab Project #
HALALDPAZ-EVERGY

Collected by (print):
S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CR6,SULFATE,TS 4ozClr-NoPres <2 SW9010C	CR6ICFFP 50mlTube/plungerPres	Diss Metals, CR6LL 250mlHDPE-NoPres	Metals 2ozClr-NoPres Mercury 7471B SW6020B	SULFATE 125mlHDPE-NoPres	Total Metals Metals 250mlHDPE-HNO3	Rad, 226, Ras 228 **	% Moisture			Remarks	Sample # (lab only)
Davis_School_Dup_SO	Comp	SS	0-1	3/10/25	1700	2	X			X			X	X				-11
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								
		SS				2	X			X								

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:CR6LL has a 24hr hold time *SW 7196A and EPA 7199
no rush for rad **EPA 903/904 and HASL 300 Ga Φ1

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier

Tracking # 4439 2438 8572

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	3/14/25	1800	FedEx	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 7.4 °C Bottles Received: 33
				7.4+0.4=7.8
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-11-25 Time: 0900
			Li Hann 17	

If preservation required by Login: Date/Time
< 500 CPM

Hold:

Condition: NCF / OK

Chain of Custody Page 2 of 2

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SDG # L1834645
Table # L1837825
Acctnum: **HALALDPAZ**
Template: **T269254**
Prelogin: **P1135616**
PM: **288 - Daphne Richards**
PB: **BF 2/27/25**
Shipped Via: **FedEX Standard**

Rush relog L1834645 HALALDPAZ R2

Ro/R1

Please relog L1834664, all samples for CR6IC and 6010 Metals Ag,As,Ba,B,Cd,Co,Cr,Li,Pb.
Transfer TS $0 :WG2468135 for -01 through 09 and WG2467876 for -10 and 11
Select this SDG for MS/MSD on both CR6IC and Metals
Log as R2 due Friday AM

Daphne Richards

Project Manager 2, National

Pace Analytical Services

O. 615.773.9662 l pacelabs.com

[cid:194d8861-39f0-48a8-b3ae-657de8c89302]

[cid:3838a3e2-256a-4e60-ba07-b9c7be161d30]

Pace Analytical Services Online Billing<https://secure2.billtrust.com/pacelabs/ig/signin>

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Time estimate: oh **Time spent:** oh

Members

DR Daphne Richards (responsible)

ANALYTICAL REPORT

April 02, 2025

Revised Report

Haley & Aldrich-Phoenix, AZ

Sample Delivery Group:	L1838002
Samples Received:	03/12/2025
Project Number:	0213103-000
Description:	ESI-Env. Sampling

Report To: Samantha Kaney
400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Entire Report Reviewed By:

Daphne R Richards

Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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CLINTON-SCHOOL-DITCH-I-SO L1838002-01 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 08:10 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	JAV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2473202	5	03/20/25 15:40	03/21/25 09:44	SJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 13:14	DJS	Mt. Juliet, TN

18-901-I-SO L1838002-02 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 09:00 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	JAV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2473202	1	03/20/25 15:40	03/21/25 10:32	SJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 13:41	DJS	Mt. Juliet, TN

K-18-I-SO L1838002-03 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 09:40 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2473202	1	03/20/25 15:40	03/21/25 10:41	SJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 13:43	DJS	Mt. Juliet, TN

P-230-I-SO L1838002-04 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 10:25 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2473202	1	03/20/25 15:40	03/21/25 10:51	SJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 13:45	DJS	Mt. Juliet, TN

P-350-I-SO L1838002-05 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 10:55 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2473202	1	03/20/25 15:40	03/21/25 11:20	SJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 13:46	DJS	Mt. Juliet, TN

NHR-I-SO L1838002-06 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 11:35 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2473202	1	03/20/25 15:40	03/21/25 11:29	SJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 13:48	DJS	Mt. Juliet, TN

DUP-SO-031125 L1838002-07 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 17:00 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2473202	1	03/20/25 15:40	03/21/25 11:39	SJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 13:50	DJS	Mt. Juliet, TN

FLYASH-I-SO L1838002-08 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 15:08 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2473202	1	03/20/25 15:40	03/21/25 11:49	SJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 13:51	DJS	Mt. Juliet, TN

MONTROSE-LAKE-I-SO L1838002-09 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 13:30 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469635	1	03/15/25 14:46	03/15/25 15:06	JAV	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2473202	1	03/20/25 15:40	03/21/25 11:58	SJC	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 13:53	DJS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

Report Revision History

Level II Report - Version 1: 03/27/25 09:22
Level IV Report - Version 2: 03/27/25 09:34
Level II Report - Version 3: 04/02/25 16:22

Project Narrative

Selenium added

2540 G-2011 Total Solids

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-I-SO

Lab Sample ID:	L1838002-01	**SDG:**	L1838002
Client Sample ID:	CLINTON-SCHOOL-DITCH-I-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	14	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.833 g
Total Solids (%):	67.2	**Final Wt/Vol:**	7.032 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	67.2	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838002-02	**SDG:**	L1838002
Client Sample ID:	18-901-I-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	15	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	11.928 g
Total Solids (%):	68.9	**Final Wt/Vol:**	8.623 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	68.9	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838002-03	**SDG:**	L1838002
Client Sample ID:	K-18-I-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	14	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	10.193 g
Total Solids (%):	65.5	**Final Wt/Vol:**	7.117 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	65.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838002-04	**SDG:**	L1838002
Client Sample ID:	P-230-I-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	15	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	9.588 g
Total Solids (%):	65.5	**Final Wt/Vol:**	6.722 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	65.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838002-05	**SDG:**	L1838002
Client Sample ID:	P-350-I-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	16	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	8.996 g
Total Solids (%):	68.2	**Final Wt/Vol:**	6.539 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	68.2	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838002-06	**SDG:**	L1838002
Client Sample ID:	NHR-I-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	17	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	10.708 g
Total Solids (%):	83.1	**Final Wt/Vol:**	9.115 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	83.1	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DUP-SO-031125

Lab Sample ID:	L1838002-07	**SDG:**	L1838002
Client Sample ID:	DUP-SO-031125	**Collected Date/Time:**	03/11/25 17:00
Lab File ID:	18	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	9.209 g
Total Solids (%):	69.8	**Final Wt/Vol:**	6.816 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	69.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838002-08	**SDG:**	L1838002
Client Sample ID:	FLYASH-I-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	19	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	9.811 g
Total Solids (%):	58.9	**Final Wt/Vol:**	6.307 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	58.9	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SO

Lab Sample ID:	L1838002-09	**SDG:**	L1838002
Client Sample ID:	MONTROSE-LAKE-I-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	20	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:46
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.136 g
Total Solids (%):	71.2	**Final Wt/Vol:**	6.873 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	71.2	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187078-1	**SDG:**	L1838002
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:30
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.286 g
Total Solids (%):		**Final Wt/Vol:**	1.287 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.00100	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187083-1	**SDG:**	L1838002
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:45
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.285 g
Total Solids (%):		**Final Wt/Vol:**	1.285 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.000	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187078-3	**SDG:**	L1838002
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	02	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	4.565 g
Total Solids (%):	64.8	**Final Wt/Vol:**	3.35 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	62.9	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187083-3	**SDG:**	L1838002
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	02	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:45
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	9.501 g
Total Solids (%):	65.5	**Final Wt/Vol:**	6.609 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	64.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187078-2	**SDG:**	L1838002
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:30
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.296 g
Total Solids (%):		**Final Wt/Vol:**	6.298 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187083-2	**SDG:**	L1838002
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:45
Analytical Batch:	WG2469635	**Analysis Date/Time:**	03/15/25 15:06
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.281 g
Total Solids (%):		**Final Wt/Vol:**	6.282 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SDG:	L1838002	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL1	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2469634

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.00100	

SDG:	L1838002	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL1	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2469635

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.000	

DUP Sample / File ID:	R4187078-3 / 02	**SDG:**	L1838002
OS Sample / File ID:	L1835560-04 / 07	**Analytical Batch:**	WG2469634
Instrument ID:	LOGBAL1	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	64.8	62.9	3.04	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187083-3 / 02	**SDG:**	L1838002
OS Sample / File ID:	L1835568-04 / 05	**Analytical Batch:**	WG2469635
Instrument ID:	LOGBAL1	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	65.5	64.8	1.07	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1838002-01,02

SAMPLE NO.:
R4187078-2

LCS Sample / File ID:	R4187078-2 / 03	**SDG:**	L1838002
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2469634
Instrument ID:	LOGBAL1	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1838002-03,04,05,06,07,08,09

SAMPLE NO.:
R4187083-2

LCS Sample / File ID:	R4187083-2 / 03	**SDG:**	L1838002
LCSD Sample / File ID:		**Analytical Batch:**	WG2469635
Instrument ID:	LOGBAL1	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs:	L1838002-01,02,03,04,05,06,07,08,09	**Analytical Method:**	2540 G-2011
Matrix:	Solid	**Prep Method:**	SM 2540 G

Analyte	CAS	Wavelength	Mass	MDL	RDL
				%	%
Total Solids	TSOLIDS				

ANALYSIS LOG

SDG:	L1838002	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL1	**Calibration Start Date:**	_____
Analytical Run:	WG2469634	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4187078-1	01	03/15/25 14:45	1	WG2469634
DUP	R4187078-3	02	03/15/25 14:45	1	WG2469634
LCS	R4187078-2	03	03/15/25 14:45	1	WG2469634
OS	L1835560-04	07	03/15/25 14:45		
18-901-I-SO	L1838002-02	15	03/15/25 14:45	1	WG2469634
CLINTON-SCHOOL-DITCH-I-SO	L1838002-01	14	03/15/25 14:45	1	WG2469634

ANALYSIS LOG

SDG:	L1838002	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL1	**Calibration Start Date:**	_____
Analytical Run:	WG2469635	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4187083-1	01	03/15/25 15:06	1	WG2469635
DUP	R4187083-3	02	03/15/25 15:06	1	WG2469635
LCS	R4187083-2	03	03/15/25 15:06	1	WG2469635
OS	L1835568-04	05	03/15/25 15:06		
P-230-I-SO	L1838002-04	15	03/15/25 15:06	1	WG2469635
P-350-I-SO	L1838002-05	16	03/15/25 15:06	1	WG2469635
K-18-I-SO	L1838002-03	14	03/15/25 15:06	1	WG2469635
NHR-I-SO	L1838002-06	17	03/15/25 15:06	1	WG2469635
DUP-SO-031125	L1838002-07	18	03/15/25 15:06	1	WG2469635
FLYASH-I-SO	L1838002-08	19	03/15/25 15:06	1	WG2469635
MONTROSE-LAKE-I-SO	L1838002-09	20	03/15/25 15:06	1	WG2469635

Total Solids WetChem Prep Benchsheet

Batch: WG2469634

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835095	WG2469547	BJM688	PREPREPBAL4	14-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25

Analyst: MT3521 **Prep Start Date/Time:** 03/15/25 14:30-14:32 **Prep End Date/Time:** 03/17/25 09:27 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL1 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				BB1	1.286	1.286	1.286	1.287	0.001	0.001	99.999						JAV213	03/20/25 13:38:44
LCS				BB2	1.294	11.296	6.296	6.298	0.002	50.03	49.97	100.06	99.94				JAV213	03/20/25 13:38:44
DUP(L1835560-04)				BB3	1.294	4.565	3.348	3.350	0.002	62.8554	37.1446			3.04	5.37		JAV213	03/20/25 13:38:44
1. L1835095-05	SS	OR	02/27/25 13:12	BB4	1.282	6.942	6.514	6.514	0	92.4382	7.5618					0314PP4	JAV213	03/20/25 13:38:44
2. L1835095-06	SS	OR	02/27/25 13:35	BB5	1.286	10.157	9.576	9.575	0.001	93.4393	6.5607					0314PP4	JAV213	03/20/25 13:38:44
3. L1835095-07	SS	OR	02/27/25 14:06	BB6	1.290	11.270	7.846	7.846	0	65.6914	34.3086					0314PP4	JAV213	03/20/25 13:38:44
4. L1835560-04	SS	MO	03/11/25 10:25	BB7	1.289	6.729	4.811	4.814	0.003	64.7978	35.2022					0314PP4	JAV213	03/20/25 13:38:44
5. L1835560-05	SS	MO	03/11/25 10:55	BB8	1.283	9.381	6.662	6.664	0.002	66.4485	33.5515					0314PP4	JAV213	03/20/25 13:38:44
6. L1835560-06	SS	MO	03/11/25 11:35	BB9	1.294	9.153	7.628	7.632	0.004	80.6464	19.3536					0314PP4	JAV213	03/20/25 13:38:44
7. L1835560-07	SS	MO	03/11/25 15:08	BB10	1.286	8.724	6.310	6.314	0.004	67.5988	32.4012					0314PP4	JAV213	03/20/25 13:38:44
8. L1835560-08	SS	MO	03/11/25 13:30	BB11	1.287	9.826	7.519	7.522	0.003	73.0179	26.9821					0314PP4	JAV213	03/20/25 13:38:44
9. L1835568-01	SS	MO	03/11/25 08:10	BB12	1.289	9.833	7.029	7.032	0.003	67.2168	32.7832					0314PP4	JAV213	03/20/25 13:38:44
10. L1835568-02	SS	MO	03/11/25 09:00	BB13	1.292	11.928	8.618	8.623	0.005	68.9263	31.0737					0314PP4	JAV213	03/20/25 13:38:44
11. L1838002-01	SS	MO	03/11/25 08:10	BB12	1.289	9.833	7.029	7.032	0.003	67.2168	32.7832					0314PP4	JAV213	03/20/25 13:38:44
12. L1838002-02	SS	MO	03/11/25 09:00	BB13	1.292	11.928	8.618	8.623	0.005	68.9263	31.0737					0314PP4	JAV213	03/20/25 13:38:44
13. L1838018-04	SS	MO	03/11/25 10:25	BB7	1.289	6.729	4.811	4.814	0.003	64.7978	35.2022					0314PP4	JAV213	03/20/25 13:38:44
14. L1838018-05	SS	MO	03/11/25 10:55	BB8	1.283	9.381	6.662	6.664	0.002	66.4485	33.5515					0314PP4	JAV213	03/20/25 13:38:44
15. L1838018-06	SS	MO	03/11/25 11:35	BB9	1.294	9.153	7.628	7.632	0.004	80.6464	19.3536					0314PP4	JAV213	03/20/25 13:38:44
16. L1838018-07	SS	MO	03/11/25 15:08	BB10	1.286	8.724	6.310	6.314	0.004	67.5988	32.4012					0314PP4	JAV213	03/20/25 13:38:44
17. L1838018-08	SS	MO	03/11/25 13:30	BB11	1.287	9.826	7.519	7.522	0.003	73.0179	26.9821					0314PP4	JAV213	03/20/25 13:38:44

Comments:
L1838002-01 Time Added: 03/20/25 09:15:06
L1838002-02 Time Added: 03/20/25 09:15:06
L1838018-05 Time Added: 03/20/25 09:45:27
L1838018-06 Time Added: 03/20/25 09:45:28
L1838018-04 Time Added: 03/20/25 09:45:27
L1838018-07 Time Added: 03/20/25 09:45:28
L1838018-08 Time Added: 03/20/25 09:45:28

Reviewed By:JAV213 on 03/20/25 13:38:44

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/15/25 14:45:23	104	104	03/17/25 07:50:49	104	104	BLANK, LCS, DUP(L1835560-04), L1835095-05, L1838018-08, L1838018-07, L1838018-06, L1838018-05, L1838018-04, L1838002-02, L1838002-01, L1835568-02, L1835568-01, L1835560-08, L1835560-07, L1835560-06, L1835560-05, L1835560-04, L1835095-07, L1835095-06
2	Oven-1hr	03/17/25 07:53:39	104	104	03/17/25 09:22:46	104	104	BLANK, LCS, DUP(L1835560-04), L1835095-05, L1835095-06, L1835095-07, L1835560-04, L1835560-05, L1835560-06, L1835560-07, L1835560-08, L1835568-01, L1835568-02, L1838002-01, L1838002-02, L1838018-04, L1838018-05, L1838018-06, L1838018-07, L1838018-08

Total Solids WetChem Prep Benchsheet

Batch: WG2469635

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25
L1836072	WG2469558	BJM688	PREPREPBAL1	14-MAR-25
L1836179	WG2469443	BJM688	PREPREPBAL1	14-MAR-25

Analyst: MT3521 **Prep Start Date/Time:** 03/15/25 14:45-14:46 **Prep End Date/Time:** 03/17/25 09:31 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL1 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				CC1	1.285	1.285	1.284	1.285	0.001	0	100						JAV213	03/20/25 13:38:54
LCS				CC2	1.280	11.281	6.283	6.282	0.001	50.015	49.985	100.03	99.97				JAV213	03/20/25 13:38:54
DUP(L1835568-04)				CC3	1.284	9.501	6.604	6.609	0.005	64.8047	35.1953			1.07	2	Fri-8/PP1 0314	JAV213	03/20/25 13:38:54
1. L1835568-03	SS	MO	03/11/25 09:40	CC4	1.277	10.193	7.113	7.117	0.004	65.5002	34.4998					0314PP4	JAV213	03/20/25 13:38:54
2. L1835568-04	SS	MO	03/11/25 10:25	CC5	1.280	9.588	6.718	6.722	0.004	65.5031	34.4969						JAV213	03/20/25 13:38:54
3. L1835568-05	SS	MO	03/11/25 10:55	CC6	1.281	8.996	6.536	6.539	0.003	68.1529	31.8471					0314PP4	JAV213	03/20/25 13:38:54
4. L1835568-06	SS	MO	03/11/25 11:35	CC7	1.282	10.708	9.111	9.115	0.004	83.0999	16.9001					0314PP4	JAV213	03/20/25 13:38:54
5. L1835568-07	SS	MO	03/11/25 17:00	CC8	1.283	9.209	6.813	6.816	0.003	69.8082	30.1918					0314PP4	JAV213	03/20/25 13:38:54
6. L1835568-08	SS	MO	03/11/25 15:08	CC9	1.281	9.811	6.304	6.307	0.003	58.9215	41.0785					0314PP4	JAV213	03/20/25 13:38:54
7. L1835568-09	SS	MO	03/11/25 13:30	CC10	1.280	9.136	6.872	6.873	0.001	71.194	28.806					0314PP4	JAV213	03/20/25 13:38:54
8. L1836072-01	SS	NJ	03/13/25 11:00	CC11	1.285	14.342	12.549	12.550	0.001	86.2756	13.7244						JAV213	03/20/25 13:38:54
9. L1836179-01	SS	CA	03/13/25 11:11	CC12	1.281	7.611	6.035	6.039	0.004	75.1659	24.8341					Fri-6/PP1 0314	JAV213	03/20/25 13:38:54
10. L1836179-02	SS	CA	03/13/25 11:23	CC13	1.281	10.223	8.410	8.413	0.003	79.7584	20.2416					Fri-6/PP1 0314	JAV213	03/20/25 13:38:54
11. L1838002-03	SS	MO	03/11/25 09:40	CC4	1.277	10.193	7.113	7.117	0.004	65.5002	34.4998					0314PP4	JAV213	03/20/25 13:38:54
12. L1838002-04	SS	MO	03/11/25 10:25	CC5	1.280	9.588	6.718	6.722	0.004	65.5031	34.4969						JAV213	03/20/25 13:38:54
13. L1838002-05	SS	MO	03/11/25 10:55	CC6	1.281	8.996	6.536	6.539	0.003	68.1529	31.8471					0314PP4	JAV213	03/20/25 13:38:54
14. L1838002-06	SS	MO	03/11/25 11:35	CC7	1.282	10.708	9.111	9.115	0.004	83.0999	16.9001					0314PP4	JAV213	03/20/25 13:38:54
15. L1838002-07	SS	MO	03/11/25 17:00	CC8	1.283	9.209	6.813	6.816	0.003	69.8082	30.1918					0314PP4	JAV213	03/20/25 13:38:54
16. L1838002-08	SS	MO	03/11/25 15:08	CC9	1.281	9.811	6.304	6.307	0.003	58.9215	41.0785					0314PP4	JAV213	03/20/25 13:38:54
17. L1838002-09	SS	MO	03/11/25 13:30	CC10	1.280	9.136	6.872	6.873	0.001	71.194	28.806					0314PP4	JAV213	03/20/25 13:38:54

Comments:
L1838002-03 Time Added: 03/20/25 09:15:06
L1838002-05 Time Added: 03/20/25 09:15:07
L1838002-04 Time Added: 03/20/25 09:15:06
L1838002-07 Time Added: 03/20/25 09:15:07
L1838002-06 Time Added: 03/20/25 09:15:07
L1838002-08 Time Added: 03/20/25 09:15:07
L1838002-09 Time Added: 03/20/25 09:15:07

Reviewed By:JAV213 on 03/20/25 13:38:54

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/15/25 15:06:34	104	104	03/17/25 07:53:53	104	104	BLANK, LCS, DUP(L1835568-04), L1835568-03, L1838002-09, L1838002-08, L1838002-07, L1838002-06, L1838002-05, L1838002-04, L1838002-03, L1836179-02, L1836179-01, L1836072-01, L1835568-09, L1835568-08, L1835568-07, L1835568-06, L1835568-05, L1835568-04
2	Oven-1hr	03/17/25 07:58:14	104	104	03/17/25 09:27:47	104	104	BLANK, LCS, DUP(L1835568-04), L1835568-03, L1835568-04, L1835568-05, L1835568-06, L1835568-07, L1835568-08, L1835568-09, L1836072-01, L1836179-01, L1836179-02, L1838002-03, L1838002-04, L1838002-05, L1838002-06, L1838002-07, L1838002-08, L1838002-09

6010D Metals (ICP)

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-I-SO

Lab Sample ID:	L1838002-01	**SDG:**	L1838002
Client Sample ID:	CLINTON-SCHOOL-DITCH-I-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321131454	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:14
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	67.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.22	J	1.25	2.98
Barium	7440-39-3	50.4		0.126	0.744
Boron	7440-42-8	U		6.69	29.8
Cadmium	7440-43-9	0.243	J	0.0971	0.744
Chromium	7440-47-3	4.69		0.318	1.49
Cobalt	7440-48-4	5.11		0.263	1.49
Lead	7439-92-1	24.5		0.485	0.744
Lithium	7439-93-2	3.12	J	0.603	7.44
Selenium	7782-49-2	U		1.59	2.98
Silver	7440-22-4	0.889	J	0.189	1.49

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
18-901-I-SO

Lab Sample ID:	L1838002-02	**SDG:**	L1838002
Client Sample ID:	18-901-I-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	20250321134149	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:41
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):	68.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.44	J	1.21	2.90
Barium	7440-39-3	93.2		0.123	0.725
Boron	7440-42-8	U		6.53	29.0
Cadmium	7440-43-9	0.154	J	0.0947	0.725
Chromium	7440-47-3	6.89		0.310	1.45
Cobalt	7440-48-4	6.72		0.257	1.45
Lead	7439-92-1	12.8		0.473	0.725
Lithium	7439-93-2	4.20	J	0.588	7.25
Selenium	7782-49-2	U		1.55	2.90
Silver	7440-22-4	0.396	J	0.184	1.45

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
K-18-I-SO

Lab Sample ID:	L1838002-03	**SDG:**	L1838002
Client Sample ID:	K-18-I-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	20250321134329	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:43
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	65.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	3.27		1.28	3.05
Barium	7440-39-3	133		0.130	0.763
Boron	7440-42-8	U		6.87	30.5
Cadmium	7440-43-9	0.266	J	0.0997	0.763
Chromium	7440-47-3	8.09		0.327	1.53
Cobalt	7440-48-4	7.98		0.270	1.53
Lead	7439-92-1	46.5		0.498	0.763
Lithium	7439-93-2	2.89	J	0.618	7.63
Selenium	7782-49-2	U		1.63	3.05
Silver	7440-22-4	0.434	J	0.194	1.53

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838002-04	**SDG:**	L1838002
Client Sample ID:	P-230-I-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	20250321134508	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:45
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	65.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.79	J	1.28	3.05
Barium	7440-39-3	104		0.130	0.763
Boron	7440-42-8	U		6.87	30.5
Cadmium	7440-43-9	0.135	J	0.0997	0.763
Chromium	7440-47-3	6.32		0.327	1.53
Cobalt	7440-48-4	7.49		0.270	1.53
Lead	7439-92-1	13.3		0.498	0.763
Lithium	7439-93-2	2.95	J	0.618	7.63
Selenium	7782-49-2	U		1.63	3.05
Silver	7440-22-4	0.541	J	0.194	1.53

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838002-05	**SDG:**	L1838002
Client Sample ID:	P-350-I-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	20250321134648	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:46
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.52 g
Total Solids (%):	68.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	3.17		1.23	2.93
Barium	7440-39-3	151		0.125	0.734
Boron	7440-42-8	U		6.60	29.3
Cadmium	7440-43-9	0.151	J	0.0958	0.734
Chromium	7440-47-3	6.25		0.314	1.47
Cobalt	7440-48-4	4.33		0.260	1.47
Lead	7439-92-1	14.8		0.478	0.734
Lithium	7439-93-2	3.11	J	0.594	7.34
Selenium	7782-49-2	U		1.57	2.93
Silver	7440-22-4	0.307	J	0.186	1.47

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
NHR-I-SO

Lab Sample ID:	L1838002-06	**SDG:**	L1838002
Client Sample ID:	NHR-I-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250321134828	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:48
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	83.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.44		1.01	2.41
Barium	7440-39-3	115		0.102	0.602
Boron	7440-42-8	8.33	J	5.42	24.1
Cadmium	7440-43-9	1.44		0.0786	0.602
Chromium	7440-47-3	4.62		0.258	1.20
Cobalt	7440-48-4	4.33		0.213	1.20
Lead	7439-92-1	38.8		0.392	0.602
Lithium	7439-93-2	3.15	J	0.487	6.02
Selenium	7782-49-2	U		1.29	2.41
Silver	7440-22-4	0.322	J	0.153	1.20

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DUP-SO-031125

Lab Sample ID:	L1838002-07	**SDG:**	L1838002
Client Sample ID:	DUP-SO-031125	**Collected Date/Time:**	03/11/25 17:00
Lab File ID:	20250321135007	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:50
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	69.8	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result (dry)** *mg/kg*	**Qualifier**	**MDL (dry)** *mg/kg*	**RDL (dry)** *mg/kg*
Arsenic	7440-38-2	2.95		1.20	2.86
Barium	7440-39-3	101		0.122	0.716
Boron	7440-42-8	U		6.45	28.6
Cadmium	7440-43-9	U		0.0935	0.716
Chromium	7440-47-3	8.93		0.307	1.43
Cobalt	7440-48-4	8.71		0.254	1.43
Lead	7439-92-1	13.9		0.467	0.716
Lithium	7439-93-2	5.64	J	0.580	7.16
Selenium	7782-49-2	U		1.53	2.86
Silver	7440-22-4	0.556	J	0.182	1.43

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838002-08	**SDG:**	L1838002
Client Sample ID:	FLYASH-I-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	20250321135148	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:51
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	58.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	13.1		1.42	3.39
Barium	7440-39-3	2230		0.144	0.849
Boron	7440-42-8	386		7.64	33.9
Cadmium	7440-43-9	0.775	J	0.111	0.849
Chromium	7440-47-3	42.5		0.363	1.70
Cobalt	7440-48-4	20.6		0.300	1.70
Lead	7439-92-1	20.6		0.553	0.849
Lithium	7439-93-2	25.1		0.687	8.49
Selenium	7782-49-2	U		1.82	3.39
Silver	7440-22-4	0.605	J	0.216	1.70

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SO

Lab Sample ID:	L1838002-09	**SDG:**	L1838002
Client Sample ID:	MONTROSE-LAKE-I-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	20250321135327	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:53
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):	71.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	6.42		1.18	2.81
Barium	7440-39-3	90.3		0.119	0.702
Boron	7440-42-8	U		6.32	28.1
Cadmium	7440-43-9	0.860		0.0917	0.702
Chromium	7440-47-3	6.93		0.301	1.40
Cobalt	7440-48-4	11.4		0.249	1.40
Lead	7439-92-1	21.7		0.458	0.702
Lithium	7439-93-2	3.28	J	0.569	7.02
Selenium	7782-49-2	U		1.50	2.81
Silver	7440-22-4	0.384	J	0.178	1.40

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-1	**SDG:**	L1838002
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250321131134	**Received Date/Time:**	_____
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:40
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:11
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		0.837	2.00
Barium	7440-39-3	U		0.0850	0.500
Boron	7440-42-8	U		4.50	20.0
Cadmium	7440-43-9	U		0.0653	0.500
Chromium	7440-47-3	U		0.214	1.00
Cobalt	7440-48-4	U		0.177	1.00
Lead	7439-92-1	U		0.326	0.500
Lithium	7439-93-2	U		0.405	5.00
Selenium	7782-49-2	U		1.07	2.00
Silver	7440-22-4	U		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-2	**SDG:**	L1838002
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250321131314	**Received Date/Time:**	_____
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:40
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:13
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**MDL**	**RDL**
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	96.2		0.837	2.00
Barium	7440-39-3	98.1		0.0850	0.500
Boron	7440-42-8	94.8		4.50	20.0
Cadmium	7440-43-9	95.0		0.0653	0.500
Chromium	7440-47-3	93.2		0.214	1.00
Cobalt	7440-48-4	89.8		0.177	1.00
Lead	7439-92-1	92.6		0.326	0.500
Lithium	7439-93-2	98.4		0.405	5.00
Selenium	7782-49-2	94.3		1.07	2.00
Silver	7440-22-4	18.6		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-5	**SDG:**	L1838002
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321131953	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:19
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.52 g
Total Solids (%):	67.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	140		1.25	2.98
Barium	7440-39-3	183		0.126	0.744
Boron	7440-42-8	132		6.69	29.8
Cadmium	7440-43-9	133		0.0971	0.744
Chromium	7440-47-3	136		0.318	1.49
Cobalt	7440-48-4	147		0.263	1.49
Lead	7439-92-1	165		0.485	0.744
Lithium	7439-93-2	163		0.603	7.44
Selenium	7782-49-2	131		1.59	2.98
Silver	7440-22-4	28.6		0.189	1.49

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-8	**SDG:**	L1838002
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321133506	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:35
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	77.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	121		1.08	2.58
Barium	7440-39-3	214		0.110	0.644
Boron	7440-42-8	118		5.80	25.8
Cadmium	7440-43-9	120		0.0842	0.644
Chromium	7440-47-3	127		0.276	1.29
Cobalt	7440-48-4	128		0.228	1.29
Lead	7439-92-1	154		0.420	0.644
Lithium	7439-93-2	136		0.522	6.44
Selenium	7782-49-2	108		1.38	2.58
Silver	7440-22-4	24.4		0.164	1.29

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-6	**SDG:**	L1838002
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321133005	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:30
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	67.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	142		1.25	2.98
Barium	7440-39-3	184		0.126	0.744
Boron	7440-42-8	130		6.69	29.8
Cadmium	7440-43-9	133		0.0971	0.744
Chromium	7440-47-3	137		0.318	1.49
Cobalt	7440-48-4	147		0.263	1.49
Lead	7439-92-1	165		0.485	0.744
Lithium	7439-93-2	158		0.603	7.44
Selenium	7782-49-2	131		1.59	2.98
Silver	7440-22-4	28.7		0.189	1.49

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-9	**SDG:**	L1838002
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321134009	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:40
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	77.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	124		1.08	2.58
Barium	7440-39-3	222		0.110	0.644
Boron	7440-42-8	117		5.80	25.8
Cadmium	7440-43-9	122		0.0842	0.644
Chromium	7440-47-3	129		0.276	1.29
Cobalt	7440-48-4	132		0.228	1.29
Lead	7439-92-1	163		0.420	0.644
Lithium	7439-93-2	138		0.522	6.44
Selenium	7782-49-2	110		1.38	2.58
Silver	7440-22-4	24.9		0.164	1.29

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-4	**SDG:**	L1838002
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321131813	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:18
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	67.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	141		1.25	2.98
Barium	7440-39-3	182		0.126	0.744
Boron	7440-42-8	134		6.69	29.8
Cadmium	7440-43-9	133		0.0971	0.744
Chromium	7440-47-3	137		0.318	1.49
Cobalt	7440-48-4	147		0.263	1.49
Lead	7439-92-1	165		0.485	0.744
Lithium	7439-93-2	161		0.603	7.44
Selenium	7782-49-2	134		1.59	2.98
Silver	7440-22-4	27.6		0.189	1.49

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-7	**SDG:**	L1838002
Client Sample ID:	PS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321133327	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:33
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	77.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	117		1.08	2.58
Barium	7440-39-3	215		0.110	0.644
Boron	7440-42-8	114		5.80	25.8
Cadmium	7440-43-9	111		0.0842	0.644
Chromium	7440-47-3	118		0.276	1.29
Cobalt	7440-48-4	123		0.228	1.29
Lead	7439-92-1	148		0.420	0.644
Lithium	7439-93-2	130		0.522	6.44
Selenium	7782-49-2	111		1.38	2.58
Silver	7440-22-4	22.8		0.164	1.29

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-3	**SDG:**	L1838002
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321131634	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:16
Dilution Factor:	5	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	67.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	U		6.23	14.9
Barium	7440-39-3	55.2		0.632	3.72
Boron	7440-42-8	U		33.5	149
Cadmium	7440-43-9	U		0.486	3.72
Chromium	7440-47-3	5.78	J	1.59	7.44
Cobalt	7440-48-4	5.40	J	1.32	7.44
Lead	7439-92-1	25.3		2.42	3.72
Lithium	7439-93-2	4.20	J	3.02	37.2
Selenium	7782-49-2	U		7.96	14.9
Silver	7440-22-4	1.24	J	0.945	7.44

CALIBRATION VERIFICATION

SDG:	L1838002	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A
Concentration Units:	mg/l		

		ICV				ICVLL				CCV		
Sample ID:		ICP160321250855				ICP160321250904				ICP160321251308		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.02498	102	1.750000	0.01	0.01079751	108	25.100000	1	0.9966275	99.70	2.310000
BARIUM	1	1.029953	103	0.823000	0.0050	0.005599951	112	4.410000	0.50	0.5058902	101	0.482000
BORON	1	0.9993199	99.90	0.745000	0.20	0.2031552	102	1.650000	1	1.01658	102	0.785000
CADMIUM	1	1.029156	103	1.150000	0.0020	0.001744789	87.20	8.360000	0.50	0.4934485	98.70	0.638000
CHROMIUM	1	0.9987973	99.90	1.130000	0.01	0.00938971	93.90	9.270000	1	0.9924139	99.20	0.216000
COBALT	1	0.9537096	95.40	1.010000	0.01	0.00905538	90.60	20.600000	1	0.9783714	97.80	0.330000
LEAD	1	0.9998232	100	1.040000	0.0050	0.005773866	115	83.800000	0.50	0.4978858	99.60	0.526000
LITHIUM	1	1.001239	100	1.250000	0.0150	0.01442687	96.20	30.100000	1	1.035252	104	0.079800
SELENIUM	1	0.9989623	99.90	0.373000	0.01	0.01071712	107	18.000000	1	0.9739736	97.40	2.260000
SILVER	1	0.9815322	98.20	0.826000	0.0050	0.005941825	119	10.500000	0.50	0.5086542	102	1.200000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

CALIBRATION VERIFICATION

SDG:	L1838002	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A
Concentration Units:	mg/l		

		CCV				**CCV**				**CCVLL**		
Sample ID:		ICP160321251336				ICP160321251356				ICP160321251543		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.00563	101	0.323000	1	1.008397	101	1.070000	0.01	0.01033627	103	47.700000
BARIUM	0.50	0.5125399	103	0.683000	0.50	0.5175546	104	0.529000	0.0050	0.00548305	110	5.360000
BORON	1	1.008242	101	0.624000	1	1.005445	101	0.698000	0.20	0.2005224	100	0.311000
CADMIUM	0.50	0.496423	99.30	0.413000	0.50	0.5007872	100	0.895000	0.0020	0.001955071	97.80	26.800000
CHROMIUM	1	1.001227	100	0.797000	1	1.00774	101	0.816000	0.01	0.009837807	98.40	15.500000
COBALT	1	0.9817812	98.20	0.837000	1	0.9845629	98.50	0.753000	0.01	0.007897482	79	3.290000
LEAD	0.50	0.4901925	98	1.100000	0.50	0.5023758	100	0.961000	0.0050	0.005150626	103	30.000000
LITHIUM	1	1.021386	102	0.744000	1	1.019111	102	0.855000	0.0150	0.01899758	127	32.000000
SELENIUM	1	0.9926148	99.30	1.160000	1	0.9960301	99.60	0.886000	0.01	-0.001430389	0	341.000000
SILVER	0.50	0.5135996	103	0.256000	0.50	0.5190796	104	0.513000	0.0050	0.006398924	128	14.200000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

CALIBRATION VERIFICATION

SDG:	L1838002	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A
Concentration Units:	mg/l		

		CCVLL				**CCVLL**		
Sample ID:		ICP160321251552				ICP160321251539		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	0.01	0.01241518	124	49.400000				
BARIUM	0.0050	0.005425338	109	0.767000				
BORON	0.20	0.2053369	103	1.820000				
CADMIUM	0.0020	0.001559242	78	51.500000				
CHROMIUM	0.01	0.01104435	110	2.950000	0.01	-0.003689649	0	103.000000
COBALT	0.01	0.008823406	88.20	12.400000	0.01	-0.007394036	0	122.000000
LEAD	0.0050	0.005269866	105	47.800000	0.0050	0.004000752	80	130.000000
LITHIUM	0.0150	0.01950312	130	18.400000				
SELENIUM	0.01	0.007672601	76.70	82.400000				
SILVER	0.0050	0.006428095	129	26.100000	0.0050	-0.007427886	0	112.000000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

SDG:	L1838002	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250321085943		20250321130952		20250321131134		20250321133829	
Analyte	mg/l		mg/l		mg/kg		mg/l	
ARSENIC	-0.0006736891	U	0.0005257374	U	U		0.00102828	U
BARIUM	-0.00005799971	U	0.0004428523	U	U		0.0005155244	U
BORON	-0.00342413	U	0.0002413195	U	U		0.001462457	U
CADMIUM	0.0001307474	U	-0.0001563555	U	U		-0.0001435585	U
CHROMIUM	0.0004348755	U	0.001123587	U	U		0.000580821	U
COBALT	0.0005244144	U	-0.0002055363	U	U		-0.0006608877	U
LEAD	0.00120905	U	0.003481061	U	U		0.001503785	U
LITHIUM	0.0003221891	U	0.003826582	U	U		0.004532977	U
SELENIUM	-0.002132518	U	-0.005649366	U	U		-0.0008025765	U
SILVER	0.0004579817	U	0.001318456	U	U		0.0008789422	U

SDG:	L1838002	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20250321135827	
Analyte	mg/l	
ARSENIC	0.00210164	U
BARIUM	0.0005458413	U
BORON	-0.0005150835	U
CADMIUM	-0.0002345511	U
CHROMIUM	0.0005571096	U
COBALT	-0.0001386139	U
LEAD	-0.002103825	U
LITHIUM	0.001193163	U
SELENIUM	-0.005487061	U
SILVER	-0.000134835	U

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1838002	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/21/25 09:06
Instrument Run:	032125ICP16A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	509.1013	102	500	508.1369	102
ANTIMONY	0	0.006447154		0.50	0.495221	99
ARSENIC	0	-0.004907903		0.50	0.4935868	98.70
BARIUM	0	0.0018303		0.50	0.5033935	101
BERYLLIUM	0	0.0007008089		0.50	0.5020147	100
BORON	0	-0.03529493		1	0.9730376	97.30
CADMIUM	0	-0.0007914524		1	1.001625	100
CALCIUM	500	511.6463	102	500	512.776	103
CERIUM	0	0.08687797		0	0.1076273	
CHROMIUM	0	-0.005823406		0.50	0.4835681	96.70
COBALT	0	0.001132004		0.50	0.5082139	102
COPPER	0	0.01139299		0.50	0.5248616	105
IRON	200	204.2666	102	200	203.827	102
LANTHANUM	0	-0.001980646		0	-0.006128269	
LEAD	0	-0.00001767799		1	1.003979	100
LITHIUM	0	0.01022379		0	0.003950866	
MAGNESIUM	500	524.8626	105	500	522.573	105
MANGANESE	0	-0.008460159		0.50	0.5000247	100
MOLYBDENUM	0	0.001139825		0.50	0.4905902	98.10
NICKEL	0	0.00004664138		1	1.016567	102
PHOSPHORUS	0	0.007550403		0	0.002309558	
POTASSIUM	0	0.06504105		0	0.05152367	
SELENIUM	0	-0.0006311484		0.50	0.4891785	97.80
SILICON	0	-0.002068487		1	0.9595425	96
SILVER	0	0.004693209		1	1.00145	100
SODIUM	0	0.02404681		0	0.06280299	
STRONTIUM	0	0.005731087		0	0.006023902	
SULFUR	0	-0.004359289		0	0.004478473	
THALLIUM	0	-0.008104253		0.50	0.4847077	96.90
TIN	0	-0.0009146921		0.50	0.4994098	99.90
TITANIUM	0	-0.003497506		0.50	0.4897595	98
VANADIUM	0	0.007661386		0.50	0.4921151	98.40
ZINC	0	0.0109761		1	1.019194	102

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1838002	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/21/25 15:58
Instrument Run:	032125ICP16A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	510.7923	102	500	509.9926	102
ANTIMONY	0	0.005589612		0.50	0.4857457	97.10
ARSENIC	0	0.01085256		0.50	0.5065857	101
BARIUM	0	0.002219882		0.50	0.5016722	100
BERYLLIUM	0	0.0006624589		0.50	0.5059382	101
BORON	0	-0.03585051		1	0.9782687	97.80
CADMIUM	0	-0.001678091		1	0.9761794	97.60
CALCIUM	500	516.382	103	500	513.1524	103
CERIUM	0	-0.05867328		0	-0.06015679	
CHROMIUM	0	-0.003467799		0.50	0.4781931	95.60
COBALT	0	-0.0002812261		0.50	0.508864	102
COPPER	0	0.01321457		0.50	0.5193552	104
IRON	200	203.5232	102	200	202.395	101
LANTHANUM	0	0.00339477		0	-0.002720977	
LEAD	0	0.002625142		1	0.9784631	97.80
LITHIUM	0	0.001072101		0	0.00351023	
MAGNESIUM	500	527.6024	106	500	524.521	105
MANGANESE	0	-0.007410586		0.50	0.499555	99.90
MOLYBDENUM	0	0.002875937		0.50	0.4768171	95.40
NICKEL	0	0.001347976		1	1.003753	100
PHOSPHORUS	0	0.002587286		0	0.004151974	
POTASSIUM	0	-0.01520476		0	-0.06919999	
SELENIUM	0	-0.01461459		0.50	0.4918897	98.40
SILICON	0	0.003685884		1	0.9283568	92.80
SILVER	0	0.005154903		1	0.9435174	94.40
SODIUM	0	-0.0681063		0	-0.0369445	
STRONTIUM	0	0.006022719		0	0.006160362	
SULFUR	0	-0.008632139		0	-0.005977017	
THALLIUM	0	-0.006196374		0.50	0.4638389	92.80
TIN	0	-0.0001717014		0.50	0.4870718	97.40
TITANIUM	0	-0.004286111		0.50	0.491764	98.40
VANADIUM	0	0.005867904		0.50	0.492972	98.60
ZINC	0	0.0113127		1	1.016482	102

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838002-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4189523-5
R4189523-6

MS Sample / File ID: R4189523-5 / 20250321131953
MSD Sample / File ID: R4189523-6 / 20250321133005
OS Sample / File ID: L1838002-01 / 20250321131454
Instrument ID: ICP16
Analytical Method: 6010D

SDG: L1838002
Analytical Batch: WG2473543
Matrix: Solid

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	149	2.22	140	142	92.9	94.3	1	75.0 - 125	1.43	20
Barium	149	50.4	183	184	88.8	90.0	1	75.0 - 125	0.934	20
Boron	149	U	132	130	88.9	87.6	1	75.0 - 125	1.50	20
Cadmium	149	0.243	133	133	89.1	89.5	1	75.0 - 125	0.454	20
Chromium	149	4.69	136	137	88.4	88.9	1	75.0 - 125	0.540	20
Cobalt	149	5.11	147	147	95.6	95.6	1	75.0 - 125	0.0519	20
Lead	149	24.5	165	165	94.2	94.7	1	75.0 - 125	0.513	20
Lithium	149	3.12	163	158	108	104	1	75.0 - 125	2.95	20
Selenium	149	U	131	131	87.8	87.9	1	75.0 - 125	0.105	20
Silver	29.8	0.889	28.6	28.7	93.2	93.3	1	75.0 - 125	0.0991	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838002-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4189523-8
R4189523-9

MS Sample / File ID:	R4189523-8 / 20250321133506	**SDG:**	L1838002
MSD Sample / File ID:	R4189523-9 / 20250321134009	**Analytical Batch:**	WG2473543
OS Sample / File ID:	L1838014-01 / 20250321133145	**Matrix:**	Solid
Instrument ID:	ICP16		
Analytical Method:	6010D		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	129	2.27	121	124	92.1	94.4	1	75.0 - 125	2.44	20
Barium	129	106	214	222	84.0	90.2	1	75.0 - 125	3.66	20
Boron	129	U	118	117	91.4	90.8	1	75.0 - 125	0.599	20
Cadmium	129	0.156	120	122	92.6	94.2	1	75.0 - 125	1.67	20
Chromium	129	6.67	127	129	93.0	94.9	1	75.0 - 125	1.97	20
Cobalt	129	5.82	128	132	94.6	97.9	1	75.0 - 125	3.30	20
Lead	129	32.3	154	163	94.2	101	1	75.0 - 125	5.61	20
Lithium	129	1.69	136	138	105	106	1	75.0 - 125	1.30	20
Selenium	129	U	108	110	83.9	85.6	1	75.0 - 125	2.00	20
Silver	25.8	0.558	24.4	24.9	92.6	94.5	1	75.0 - 125	1.97	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1838002-01,02,03,04,05,06,07,08,09

SAMPLE NO.: R4189523-4

PS Sample / File ID:	R4189523-4 / 20250321131813	**SDG:**	L1838002
OS Sample / File ID:	L1838002-01 / 20250321131454	**Analytical Batch:**	WG2473543
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Arsenic	149	2.22	141		93.6		1	80.0 - 120		
Barium	149	50.4	182		88.7		1	80.0 - 120		
Boron	149	U	134		90.0		1	80.0 - 120		
Cadmium	149	0.243	133		89.1		1	80.0 - 120		
Chromium	149	4.69	137		88.8		1	80.0 - 120		
Cobalt	149	5.11	147		95.5		1	80.0 - 120		
Lead	149	24.5	165		94.3		1	80.0 - 120		
Lithium	149	3.12	161		106		1	80.0 - 120		
Selenium	149	U	134		90.2		1	80.0 - 120		
Silver	29.8	0.889	27.6		89.6		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1838002-01,02,03,04,05,06,07,08,09

PS Sample / File ID:	R4189523-7 / 20250321133327	**SDG:**	L1838002
OS Sample / File ID:	L1838014-01 / 20250321133145	**Analytical Batch:**	WG2473543
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Arsenic	129	2.27	117		88.8		1	80.0 - 120		
Barium	129	106	215		85.0		1	80.0 - 120		
Boron	129	U	114		88.4		1	80.0 - 120		
Cadmium	129	0.156	111		86.2		1	80.0 - 120		
Chromium	129	6.67	118		86.7		1	80.0 - 120		
Cobalt	129	5.82	123		91.2		1	80.0 - 120		
Lead	129	32.3	148		89.6		1	80.0 - 120		
Lithium	129	1.69	130		99.2		1	80.0 - 120		
Selenium	129	U	111		85.8		1	80.0 - 120		
Silver	25.8	0.558	22.8		86.4		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1838002-01,02,03,04,05,06,07,08,09

SAMPLE NO.: R4189523-2

LCS Sample / File ID:	R4189523-2 / 20250321131314	**SDG:**	L1838002
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2473543
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Arsenic	100	96.2		96.2		80.0 - 120		
Barium	100	98.1		98.1		80.0 - 120		
Boron	100	94.8		94.8		80.0 - 120		
Cadmium	100	95.0		95.0		80.0 - 120		
Chromium	100	93.2		93.2		80.0 - 120		
Cobalt	100	89.8		89.8		80.0 - 120		
Lead	100	92.6		92.6		80.0 - 120		
Lithium	100	98.4		98.4		80.0 - 120		
Selenium	100	94.3		94.3		80.0 - 120		
Silver	20.0	18.6		93.0		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4189523-3 / 20250321131634	**SDG:**	L1838002
OS Sample / File ID:	L1838002-01 / 20250321131454	**Analytical Batch:**	WG2473543
Lab File ID:	20250321131634	**Dilution Factor:**	5
Instrument ID:	ICP16	**Matrix:**	Solid
Analytical Method:	6010D		

Analyte	OS Result (dry)	SD Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Arsenic	2.22	U	0.000	10
Barium	50.4	55.2	9.52	10
Boron	U	U	0.000	10
Cadmium	0.243	U	0.000	10
Chromium	4.69	5.78	23.3	10
Cobalt	5.11	5.40	5.54	10
Lead	24.5	25.3	3.01	10
Lithium	3.12	4.20	34.5	10
Selenium	U	U	0.000	10
Silver	0.889	1.24	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1838002-01,02,03,04,05,06,07,08,09 **Analytical Method:** 6010D
Matrix: Solid **Prep Method:** 3051

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Cobalt	7440-48-4		228.6160	0.1770	1
Lead	7439-92-1		220.3530	0.3260	0.50
Lithium	7439-93-2		670.7840	0.4050	5
Selenium	7782-49-2		196.09	1.07	2
Silver	7440-22-4		328.0680	0.1270	1
Arsenic	7440-38-2		189.0420	0.8370	2
Barium	7440-39-3		233.5270	0.0850	0.50
Boron	7440-42-8		249.6780	4.50	20
Cadmium	7440-43-9		228.8020	0.0653	0.50
Chromium	7440-47-3		267.7160	0.2140	1

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1838002	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	02/03/25 09:04

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	200
POTASSIUM	500
SELENIUM	10
SILICON	100
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

ANALYSIS LOG

SDG:	L1838002	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Calibration Start Date:**	03/21/25 08:27
Analytical Run:	032125ICP16A	**Calibration End Date:**	03/21/25 08:37

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP160321250826	20250321082614	03/21/25 08:26		
CAL	STD1	20250321082752	03/21/25 08:27		
CAL	STD2	20250321082930	03/21/25 08:29		
CAL	STD3	20250321083108	03/21/25 08:31		
CAL	STD4	20250321083245	03/21/25 08:32		
CAL	STD5	20250321083423	03/21/25 08:34		
CAL	STD6	20250321083600	03/21/25 08:36		
ICV	ICP160321250855	20250321085537	03/21/25 08:55		
ICB	ICP160321250859	20250321085943	03/21/25 08:59		
ICVLL	ICP160321250904	20250321090436	03/21/25 09:04		
ICSA	ICP160321250906	20250321090614	03/21/25 09:06		
ICSAB	ICP160321250907	20250321090752	03/21/25 09:07		
CCV	ICP160321251308	20250321130812	03/21/25 13:08		
CCB	ICP160321251309	20250321130952	03/21/25 13:09		
BLANK	R4189523-1	20250321131134	03/21/25 13:11	1	WG2473543
LCS	R4189523-2	20250321131314	03/21/25 13:13	1	WG2473543
CLINTON-SCHOOL-DITCH-I-SO	L1838002-01	20250321131454	03/21/25 13:14	1	WG2473543
SD	R4189523-3	20250321131634	03/21/25 13:16	5	WG2473543
PS	R4189523-4	20250321131813	03/21/25 13:18	1	WG2473543
MS	R4189523-5	20250321131953	03/21/25 13:19	1	WG2473543
MSD	R4189523-6	20250321133005	03/21/25 13:30	1	WG2473543
OS	L1838014-01	20250321133145	03/21/25 13:31		
L1838014-01	L1838014-01	20250321133145	03/21/25 13:31	1	WG2473543
PS	R4189523-7	20250321133327	03/21/25 13:33	1	WG2473543
MS	R4189523-8	20250321133506	03/21/25 13:35	1	WG2473543
CCV	ICP160321251336	20250321133648	03/21/25 13:36		
CCB	ICP160321251338	20250321133829	03/21/25 13:38		
MSD	R4189523-9	20250321134009	03/21/25 13:40	1	WG2473543
18-901-I-SO	L1838002-02	20250321134149	03/21/25 13:41	1	WG2473543
K-18-I-SO	L1838002-03	20250321134329	03/21/25 13:43	1	WG2473543
P-230-I-SO	L1838002-04	20250321134508	03/21/25 13:45	1	WG2473543
P-350-I-SO	L1838002-05	20250321134648	03/21/25 13:46	1	WG2473543
NHR-I-SO	L1838002-06	20250321134828	03/21/25 13:48	1	WG2473543
DUP-SO-031125	L1838002-07	20250321135007	03/21/25 13:50	1	WG2473543
FLYASH-I-SO	L1838002-08	20250321135148	03/21/25 13:51	1	WG2473543
MONTROSE-LAKE-I-SO	L1838002-09	20250321135327	03/21/25 13:53	1	WG2473543
L1838014-02	L1838014-02	20250321135507	03/21/25 13:55	1	WG2473543
CCV	ICP160321251356	20250321135647	03/21/25 13:56		
CCB	ICP160321251358	20250321135827	03/21/25 13:58		
CCVLL	ICP160321251539	20250321153921	03/21/25 15:39		
CCVLL	ICP160321251543	20250321154343	03/21/25 15:43		
CCVLL	ICP160321251552	20250321155226	03/21/25 15:52		
ICSA	ICP160321251558	20250321155850	03/21/25 15:58		
ICSAB	ICP160321251600	20250321160033	03/21/25 16:00		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838002	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.009450952	94.50	0.20	.2024679	101
BARIUM	0.0050	.005525024	111	0.10	.1009626	101
BORON	0.20	.2006858	100			
CADMIUM	0.0020	.001846044	92.30	0.10	.1003898	100
CHROMIUM	0.01	.009238352	92.40	0.20	.1931434	96.60
COBALT	0.01	.008028498	80.30	0.20	.184132	92.10
LEAD	0.0050	.005306873	106	0.10	.09844949	98.40
LITHIUM	0.0150	.01743911	116	0.20	.1861196	93.10
SELENIUM	0.01	.008380011	83.80	0.20	.2045207	102
SILVER	0.0050	.005412618	108	0.10	.09865973	98.70
File ID:		20250321082752			20250321082930	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838002	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.4118118	103	1	.967025	96.70
BARIUM	0.20	.2061333	103	0.50	.4837596	96.80
BORON	0.40	.4037297	101	1	.946158	94.60
CADMIUM	0.20	.2063865	103	0.50	.4797405	95.90
CHROMIUM	0.40	.3991954	99.80	1	.9358874	93.60
COBALT	0.40	.3853479	96.30	1	.92271	92.30
LEAD	0.20	.2011952	101	0.50	.4749542	95
LITHIUM	0.40	.3846565	96.20	1	.9284183	92.80
SELENIUM	0.40	.4096343	102	1	.9881575	98.80
SILVER	0.20	.2047549	102	0.50	.4846204	96.90
File ID:		20250321083108			20250321083245	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838002	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.02905	101	4	3.992415	99.80
BARIUM	1	1.010855	101	2	1.99797	99.90
BORON	2	2.008322	100	4	4.008892	100
CADMIUM	1	1.002167	100	2	2.003323	100
CHROMIUM	2	1.991019	99.60	4	4.020944	101
COBALT	2	1.984644	99.20	4	4.029264	101
LEAD	1	1.003098	100	2	2.00467	100
LITHIUM	2	2.040229	102			
SELENIUM	2	2.047754	102	4	3.977898	99.40
SILVER	1	1.006216	101	2	2.000327	100
File ID:		20250321083423			20250321083600	

16A-IN

INITIAL CALIBRATION

SDG:	L1838002	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999917	197.1366	1.067309
BARIUM	233.527	8	5	0.999934	6014.184	-8.157375
BORON	249.678	8	5	0.999869	208.6249	-0.152962
CADMIUM	228.802	8	5	0.999928	2125.431	8.82258
CHROMIUM	267.716	8	5	0.999821	2329.913	-8.855238
COBALT	228.616	8	5	0.999713	1087.384	-6.514733
LEAD	220.353	8	5	0.999898	464.8921	0.005844
LITHIUM	670.784	8	5	0.998841	1045.406	-7.197886
SELENIUM	196.09	8	5	0.999883	89.6181	0.057566
SILVER	328.068	8	5	0.999954	3920.261	-17.79079

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

Sample ID: CALBLK Units: mg/l
Analyzed: 03/21/25 08:26 Sequence: 2 Standard ID: 25C17417

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6424.829	6395.653	6431.202	6447.633
YTTRIUM	360.073	Axial	62336.09	61924.77	63044.70	62038.79
YTTRIUM	360.073	Radial	4757.437	4750.504	4755.871	4765.938
INDIUM	230.606	Axial	1369.724	1358.868	1382.836	1367.468

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	-4.44481	-3.934405	-4.048072	-5.351959
ANTIMONY	206.833	Axial	0.2867719	1.368819	-1.054423	0.5459194
ARSENIC	189.042	Axial	1.069036	0.2284526	1.694161	1.284494
BARIUM	233.527	Axial	-8.15661	-9.128738	-5.851080	-9.490024
BERYLLIUM	313.042	Radial	2.915721	1.665842	5.567904	1.513418
BORON	249.678	Radial	-0.1529957	-0.08204279	-0.2134186	-0.1635257
CADMIUM	228.802	Axial	8.821388	9.074593	9.302446	8.087124
CALCIUM	317.933	Radial	12.14960	11.91329	10.98988	13.54564
CALCIUM	373.690	Radial	-3.06539	-2.595305	-5.251197	-1.349677
CERIUM	535.353	Radial	18.80084	14.18930	23.17141	19.04181
CHROMIUM	267.716	Axial	-8.84858	-11.67283	-7.579920	-7.293017
COBALT	228.616	Axial	-6.51179	-6.777566	-5.964110	-6.793721
COPPER	324.754	Axial	-10.9182	-9.692843	-10.35849	-12.70334
IRON	259.940	Radial	1.323707	0.7016213	2.319642	0.9498581
IRON	271.441	Radial	0.08101619	-0.2449515	0.5050385	-0.01703843
LANTHANUM	333.749	Radial	-4.34129	-4.188351	-4.022967	-4.812578
LEAD	220.353	Axial	0.01339764	-1.085656	1.423403	-0.2975537
LITHIUM	670.784	Radial	-7.19855	-4.614650	-10.19626	-6.784755
MAGNESIUM	279.079	Radial	-2.79978	-2.726832	-3.629380	-2.043147
MANGANESE	257.610	Axial	-13.5179	-16.00128	-11.40448	-13.14815
MOLYBDENUM	202.030	Axial	0.5363174	0.7372886	-0.4088458	1.280509
NICKEL	231.604	Axial	1.293252	0.6429618	1.972217	1.264577
PHOSPHORUS	177.495	Axial	1.142060	1.727614	0.7998718	0.8986945
POTASSIUM	766.490	Radial	-20.8813	-26.47564	-18.73758	-17.43089
SELENIUM	196.090	Axial	0.05815937	-0.2291777	0.2724611	0.1311947
SILICON	251.611	Axial	10.39873	10.46849	9.168411	11.55928
SILVER	328.068	Axial	-17.7746	-21.19286	-15.37203	-16.75919
SODIUM	589.592	Radial	-5.87708	-3.181940	-8.418125	-6.031183
SODIUM	818.326	Radial	6.167551	4.252190	8.466132	5.784332
STRONTIUM	421.552	Radial	6.974523	4.621881	10.41294	5.888747
SULFUR	182.034	Axial	4.026892	4.231021	3.869388	3.980266
THALLIUM	190.856	Axial	-0.8048032	-0.5227779	-0.5342913	-1.357340
TIN	189.989	Axial	-0.6106080	-0.4356626	-0.7221811	-0.6739803
TITANIUM	334.941	Radial	-2.88401	-3.596819	-1.864618	-3.190600
VANADIUM	292.402	Radial	-1.56583	1.834154	-3.935609	-2.596062
ZINC	206.200	Axial	3.589924	5.051490	1.883372	3.834910

Sample ID: STD1 Units: mg/l
Analyzed: 03/21/25 08:27 Sequence: 3 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6432.950	6524.908	6401.803	6372.140
YTTRIUM	360.073	Axial	62056.02	62513.13	62203.54	61451.38
YTTRIUM	360.073	Radial	4749.723	4769.699	4755.866	4723.605
INDIUM	230.606	Axial	1338.354	1349.427	1340.798	1324.836

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	6.200999	7.095221	6.775236	4.732540
ANTIMONY	206.833	Axial	1.569521	1.224318	1.167964	2.316280
ARSENIC	189.042	Axial	2.930386	2.382507	3.487799	2.920853
BARIUM	233.527	Axial	25.08455	22.72164	26.99567	25.53635
BERYLLIUM	313.042	Radial	36.12605	37.91883	34.58401	35.87531
BORON	249.678	Radial	41.64872	41.12787	43.24925	40.56904
CADMIUM	228.802	Axial	12.76019	12.56668	13.22672	12.48719
CALCIUM	317.933	Radial	214.0502	215.4938	219.6161	207.0408
CHROMIUM	267.716	Axial	12.68217	12.69904	11.41777	13.92969
COBALT	228.616	Axial	2.156904	1.301374	1.580731	3.588607
COPPER	324.754	Axial	39.17995	38.59421	37.02189	41.92375
IRON	259.940	Radial	27.64438	28.92819	27.23229	26.77265
LEAD	220.353	Axial	2.415023	2.231770	2.404710	2.608590
LITHIUM	670.784	Radial	11.02488	15.29539	9.293584	8.485669
MAGNESIUM	279.079	Radial	85.60847	86.10511	84.84821	85.87211
MANGANESE	257.610	Axial	194.5360	197.7654	192.8585	192.9842
MOLYBDENUM	202.030	Axial	4.057809	5.010582	2.948458	4.214389
NICKEL	231.604	Axial	9.610907	9.702970	9.525950	9.603803
PHOSPHORUS	177.495	Axial	19.99240	19.44649	20.38073	20.14999
POTASSIUM	766.490	Radial	81.32906	83.45583	77.42248	83.10888
SELENIUM	196.090	Axial	0.8066988	0.5186815	0.4628996	1.438515
SILICON	251.611	Axial	207.4242	206.1249	209.9785	206.1691
SILVER	328.068	Axial	3.393386	2.873434	-0.5732989	7.880023
SODIUM	589.592	Radial	375.8394	379.5470	375.3674	372.6039
STRONTIUM	421.552	Radial	112.3967	113.8570	114.5555	108.7776
SULFUR	182.034	Axial	52.59487	53.20108	51.96951	52.61400
THALLIUM	190.856	Axial	0.8393323	0.4092386	1.867231	0.2415271
TIN	189.989	Axial	19.24580	19.33619	18.43702	19.96421
TITANIUM	334.941	Radial	80.09392	79.93718	79.66636	80.67823
VANADIUM	292.402	Radial	10.53250	10.81689	9.608843	11.17178
ZINC	206.200	Axial	128.7704	128.5442	128.2273	129.5399

Sample ID: STD2 Units: mg/l
Analyzed: 03/21/25 08:29 Sequence: 4 Standard ID: 25C19782

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6119.234	6056.828	6067.668	6233.206
YTTRIUM	360.073	Axial	58820.80	58121.73	58705.16	59635.50
YTTRIUM	360.073	Radial	4632.701	4681.332	4659.904	4556.868
INDIUM	230.606	Axial	1248.749	1238.880	1246.142	1261.227

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	108.0358	109.7872	108.1365	106.1836
ANTIMONY	206.833	Axial	14.90608	13.35202	15.42859	15.93763
ARSENIC	189.042	Axial	39.02740	39.95280	37.78685	39.34256
BARIUM	233.527	Axial	570.5423	563.6534	568.4521	579.5214
BERYLLIUM	313.042	Radial	613.2055	614.4797	619.6223	605.5145
CADMIUM	228.802	Axial	211.6046	211.1655	210.3418	213.3066
CALCIUM	317.933	Radial	1998.512	1978.236	2045.884	1971.417
CHROMIUM	267.716	Axial	420.2105	410.1849	418.1272	432.3193
COBALT	228.616	Axial	176.6040	175.5502	174.5154	179.7462
COPPER	324.754	Axial	864.4999	850.3099	865.7962	877.3935
IRON	259.940	Radial	516.3473	508.4194	526.1949	514.4276
LEAD	220.353	Axial	41.73446	41.00071	41.49130	42.71136
LITHIUM	670.784	Radial	182.4531	180.8697	186.8341	179.6555
MAGNESIUM	279.079	Radial	166.7076	168.5867	167.7202	163.8158
MANGANESE	257.610	Axial	4025.951	3984.141	4004.693	4089.019
MOLYBDENUM	202.030	Axial	32.81555	33.29871	31.78748	33.36046
NICKEL	231.604	Axial	168.8406	168.6101	165.5971	172.3146
PHOSPHORUS	177.495	Axial	37.33936	37.31106	37.10965	37.59736
POTASSIUM	766.490	Radial	903.9409	908.6905	914.5281	888.6040
SELENIUM	196.090	Axial	17.51971	17.19941	16.63503	18.72470
SILICON	251.611	Axial	410.5769	382.1591	386.3964	463.1751
SILVER	328.068	Axial	348.1531	345.0098	349.7181	349.7313
SODIUM	589.592	Radial	3558.911	3583.898	3582.809	3510.028
STRONTIUM	421.552	Radial	2073.224	2052.249	2117.786	2049.638
THALLIUM	190.856	Axial	37.33314	36.78040	37.08609	38.13293
TIN	189.989	Axial	38.44694	38.64723	38.10303	38.59055
TITANIUM	334.941	Radial	315.2870	316.5396	317.2146	312.1068
VANADIUM	292.402	Radial	115.0034	115.1651	117.6520	112.1932
ZINC	206.200	Axial	466.0173	470.4622	462.3165	465.2731

Sample ID: STD3 Units: mg/l
Analyzed: 03/21/25 08:31 Sequence: 5 Standard ID: 25C19783

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6168.644	6138.412	6193.755	6173.766
YTTRIUM	360.073	Axial	59269.58	58778.03	59627.36	59403.36
YTTRIUM	360.073	Radial	4628.392	4618.269	4638.311	4628.597
INDIUM	230.606	Axial	1247.037	1232.356	1262.706	1246.048

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	216.3137	219.0183	216.2993	213.6234
ANTIMONY	206.833	Axial	28.52086	28.40791	27.94056	29.21411
ARSENIC	189.042	Axial	78.96785	79.57690	78.31465	79.01201
BARIUM	233.527	Axial	1182.475	1172.664	1195.633	1179.129
BERYLLIUM	313.042	Radial	1251.905	1253.670	1253.217	1248.828
BORON	249.678	Radial	81.79547	80.38306	81.92845	83.07489
CADMIUM	228.802	Axial	429.6442	426.8491	434.0636	428.0198
CALCIUM	317.933	Radial	4109.034	4097.387	4123.312	4106.403
CHROMIUM	267.716	Axial	884.5409	867.3674	901.4331	884.8221
COBALT	228.616	Axial	375.5424	373.8283	379.0577	373.7412
COPPER	324.754	Axial	1778.072	1768.432	1771.924	1793.859
IRON	259.940	Radial	1031.815	1030.207	1033.638	1031.600
LEAD	220.353	Axial	85.16221	83.20215	85.60276	86.68173
LITHIUM	670.784	Radial	384.2051	391.3027	383.5577	377.7547
MAGNESIUM	279.079	Radial	341.8890	338.1657	344.5703	342.9308
MANGANESE	257.610	Axial	8345.732	8267.636	8439.069	8330.491
MOLYBDENUM	202.030	Axial	67.82155	66.47021	68.33306	68.66137
NICKEL	231.604	Axial	347.4458	344.1056	350.2163	348.0155
PHOSPHORUS	177.495	Axial	75.82862	75.43173	76.19015	75.86398
POTASSIUM	766.490	Radial	1859.633	1867.628	1857.720	1853.551
SELENIUM	196.090	Axial	35.30045	35.68179	34.88573	35.33383
SILICON	251.611	Axial	790.0977	779.1231	802.2604	788.9095
SILVER	328.068	Axial	746.2609	747.0345	747.1867	744.5615
SODIUM	589.592	Radial	7205.509	7198.348	7243.942	7174.237
SODIUM	818.326	Radial	172.0863	172.1362	173.2854	170.8373
STRONTIUM	421.552	Radial	4209.012	4205.603	4221.193	4200.239
SULFUR	182.034	Axial	99.80072	98.31494	101.3623	99.72488
THALLIUM	190.856	Axial	76.67018	76.35693	77.62676	76.02684
TIN	189.989	Axial	78.25233	77.44585	78.98419	78.32696
TITANIUM	334.941	Radial	648.5563	648.1148	651.6702	645.8839
VANADIUM	292.402	Radial	236.8021	238.3542	236.3111	235.7409
ZINC	206.200	Axial	958.8196	967.7844	945.5927	963.0818

Sample ID: STD4 Units: mg/l
Analyzed: 03/21/25 08:32 Sequence: 6 Standard ID: 25C19784

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6188.285	6111.350	6248.277	6205.228
YTTRIUM	360.073	Axial	59023.01	58284.25	59360.38	59424.39
YTTRIUM	360.073	Radial	4588.678	4613.668	4575.162	4577.203
INDIUM	230.606	Axial	1229.176	1210.219	1243.452	1233.857

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	506.6607	504.0082	509.3404	506.6335
ANTIMONY	206.833	Axial	65.29279	63.41165	65.95841	66.50830
ARSENIC	189.042	Axial	184.6343	183.7332	184.7172	185.4525
BARIUM	233.527	Axial	2794.378	2763.415	2800.681	2819.039
BERYLLIUM	313.042	Radial	2944.900	2949.298	2946.615	2938.789
BORON	249.678	Radial	190.2413	190.8279	189.8520	190.0441
CADMIUM	228.802	Axial	990.5863	981.6521	996.3187	993.7880
CALCIUM	317.933	Radial	9417.415	9385.579	9427.603	9439.063
CALCIUM	373.690	Radial	4665.341	4675.794	4661.023	4659.204
CHROMIUM	267.716	Axial	2091.840	2040.948	2106.322	2128.249
COBALT	228.616	Axial	894.4448	890.1909	891.6338	901.5098
COPPER	324.754	Axial	4103.615	4079.659	4100.532	4130.654
IRON	259.940	Radial	2393.784	2382.467	2399.523	2399.364
IRON	271.441	Radial	194.1976	195.5570	195.3293	191.7066
LEAD	220.353	Axial	198.1188	198.7309	197.1231	198.5025
LITHIUM	670.784	Radial	929.2009	933.6557	926.1194	927.8274
MAGNESIUM	279.079	Radial	799.8132	800.1810	799.6722	799.5866
MANGANESE	257.610	Axial	19797.82	19624.63	19836.81	19932.01
MOLYBDENUM	202.030	Axial	158.0396	158.2860	157.8126	158.0203
NICKEL	231.604	Axial	813.2088	801.8432	817.2447	820.5386
PHOSPHORUS	177.495	Axial	173.1512	171.2925	175.8136	172.3475
POTASSIUM	766.490	Radial	4356.359	4345.519	4374.164	4349.394
SELENIUM	196.090	Axial	85.34305	85.71392	85.52996	84.78528
SILICON	251.611	Axial	1825.945	1777.421	1849.399	1851.017
SILVER	328.068	Axial	1781.884	1781.356	1774.590	1789.706
SODIUM	818.326	Radial	390.3241	395.1302	387.7781	388.0639
STRONTIUM	421.552	Radial	9659.969	9638.767	9675.457	9665.684
SULFUR	182.034	Axial	225.7269	224.4821	226.9765	225.7219
THALLIUM	190.856	Axial	177.7247	179.2735	177.6810	176.2196
TIN	189.989	Axial	182.7743	179.9440	184.1076	184.2714
TITANIUM	334.941	Radial	1521.048	1523.645	1522.143	1517.357
VANADIUM	292.402	Radial	554.8730	555.3236	556.0707	553.2247
ZINC	206.200	Axial	2273.674	2273.435	2275.569	2272.019

Sample ID: STD5 Units: mg/l
Analyzed: 03/21/25 08:34 Sequence: 7 Standard ID: 25C19785

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6218.137	6212.293	6219.806	6222.313
YTTRIUM	360.073	Axial	58442.70	58591.26	58239.47	58497.38
YTTRIUM	360.073	Radial	4609.502	4559.346	4611.117	4658.043
INDIUM	230.606	Axial	1204.100	1204.522	1204.543	1203.236

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1081.428	1073.442	1083.411	1087.431
ANTIMONY	206.833	Axial	134.7171	134.2305	134.2931	135.6278
ARSENIC	189.042	Axial	388.1638	389.1652	389.2380	386.0883
BARIUM	233.527	Axial	5875.990	5886.596	5836.873	5904.501
BERYLLIUM	313.042	Radial	6230.549	6181.189	6230.143	6280.314
BORON	249.678	Radial	405.8000	402.0981	407.1285	408.1736
CADMIUM	228.802	Axial	2070.053	2065.934	2065.954	2078.271
CALCIUM	373.690	Radial	9789.139	9699.756	9830.645	9837.016
CHROMIUM	267.716	Axial	4481.100	4461.109	4497.745	4484.445
COBALT	228.616	Axial	1891.389	1896.583	1871.213	1906.370
COPPER	324.754	Axial	8427.715	8468.659	8344.357	8470.128
IRON	271.441	Radial	406.8121	403.9790	409.6265	406.8306
LEAD	220.353	Axial	409.9491	411.8085	406.6068	411.4319
LITHIUM	670.784	Radial	2059.533	2042.247	2060.646	2075.706
MAGNESIUM	279.079	Radial	1691.630	1671.449	1702.382	1701.060
MANGANESE	257.610	Axial	41876.25	42055.39	41551.23	42022.14
MOLYBDENUM	202.030	Axial	326.6030	326.6677	326.7000	326.4412
NICKEL	231.604	Axial	1713.439	1712.680	1714.307	1713.330
PHOSPHORUS	177.495	Axial	362.3992	365.0707	361.8440	360.2829
POTASSIUM	766.490	Radial	9268.618	9184.534	9312.601	9308.720
SELENIUM	196.090	Axial	177.6668	179.3592	176.3553	177.2859
SILICON	251.611	Axial	3855.183	3824.475	3877.346	3863.726
SILVER	328.068	Axial	3681.687	3718.103	3603.542	3723.417
SODIUM	818.326	Radial	822.9737	820.2577	825.6231	823.0403
STRONTIUM	421.552	Radial	20347.17	20037.04	20449.01	20555.45
SULFUR	182.034	Axial	474.5588	472.0459	473.6243	478.0063
THALLIUM	190.856	Axial	360.6455	360.7289	360.9880	360.2196
TIN	189.989	Axial	380.5627	379.7447	381.6326	380.3108
TITANIUM	334.941	Radial	3248.110	3191.935	3276.187	3276.208
VANADIUM	292.402	Radial	1177.157	1167.038	1183.152	1181.281
ZINC	206.200	Axial	4727.042	4747.608	4714.567	4718.951

Sample ID: STD6 Units: mg/l
Analyzed: 03/21/25 08:36 Sequence: 8 Standard ID: 25C19786

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6332.561	6255.504	6421.255	6320.923
YTTRIUM	360.073	Axial	58329.97	57570.82	59095.36	58323.75
YTTRIUM	360.073	Radial	4646.197	4622.514	4648.845	4667.231
INDIUM	230.606	Axial	1200.889	1191.877	1209.613	1201.177

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	2202.566	2200.797	2203.632	2203.268
ANTIMONY	206.833	Axial	272.1291	266.6745	278.7632	270.9496
ARSENIC	189.042	Axial	776.8090	764.0484	787.1772	779.2013
BARIUM	233.527	Axial	11835.10	11738.92	11947.76	11818.64
BERYLLIUM	313.042	Radial	12502.16	12491.53	12498.55	12516.38
BORON	249.678	Radial	816.6360	816.7785	816.7653	816.3642
CADMIUM	228.802	Axial	4205.485	4152.298	4265.338	4198.818
CALCIUM	373.690	Radial	19634.31	19555.73	19673.22	19673.99
CERIUM	535.353	Radial	875.0170	874.7027	876.2251	874.1231
CHROMIUM	267.716	Axial	9224.593	9193.558	9295.538	9184.684
COBALT	228.616	Axial	3835.861	3750.419	3917.513	3839.650
COPPER	324.754	Axial	16429.58	16127.63	16739.87	16421.24
IRON	271.441	Radial	810.6643	810.7487	810.2749	810.9693
LANTHANUM	333.749	Radial	5182.093	5211.524	5170.121	5164.634
LEAD	220.353	Axial	817.1380	799.6524	833.0827	818.6788
LITHIUM	670.784	Radial	4374.525	4350.417	4388.952	4384.206
MAGNESIUM	279.079	Radial	3390.711	3395.801	3387.181	3389.151
MANGANESE	257.610	Axial	84714.62	83399.62	85886.23	84858.01
MOLYBDENUM	202.030	Axial	656.7088	648.4998	666.8379	654.7888
NICKEL	231.604	Axial	3483.824	3459.231	3512.509	3479.733
PHOSPHORUS	177.495	Axial	735.0094	720.4752	749.5932	734.9599
POTASSIUM	766.490	Radial	18666.91	18621.09	18651.18	18728.46
SELENIUM	196.090	Axial	351.3911	351.4903	352.0262	350.6569
SILICON	251.611	Axial	7950.968	7834.548	8090.727	7927.627
SILVER	328.068	Axial	7322.069	7130.342	7522.761	7313.105
SODIUM	818.326	Radial	1677.241	1681.211	1673.404	1677.108
STRONTIUM	421.552	Radial	40928.02	40662.11	40883.23	41238.72
SULFUR	182.034	Axial	983.4750	961.4315	1000.259	988.7341
THALLIUM	190.856	Axial	718.3110	702.4248	728.2760	724.2323
TIN	189.989	Axial	758.6474	748.2859	767.5596	760.0968
TITANIUM	334.941	Radial	6521.086	6475.206	6562.965	6525.087
VANADIUM	292.402	Radial	2373.053	2377.114	2368.577	2373.469
ZINC	206.200	Axial	9109.331	9106.111	9139.658	9082.225

Sample ID: ICV Units: mg/l
Analyzed: 03/21/25 08:55 Sequence: 11 Standard ID: 25C19787

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	6478.633	6451.892	6568.872	6431.969	6461.799
YTTRIUM	360.073	Axial	61757.30	61695.68	62664.43	61284.92	61384.17
YTTRIUM	360.073	Radial	4713.444	4751.541	4738.608	4677.297	4686.328
INDIUM	230.606	Axial	1307.971	1297.389	1326.632	1304.919	1302.945

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	565.0048	10.02804	9.955157	10.08336	10.10056	9.973076
ANTIMONY	206.833	Axial	141.6844	1.015808	1.023130	1.004810	1.022603	1.012686
ARSENIC	189.042	Axial	204.8072	1.024980	1.040016	0.9994957	1.026118	1.034291
BARIUM	233.527	Axial	6237.846	1.029953	1.042628	1.025010	1.026514	1.025661
BERYLLIUM	313.042	Radial	15903.83	1.004575	1.001353	1.007203	1.003601	1.006142
BORON	249.678	Radial	206.3978	0.9993199	0.9893081	1.001795	0.9991111	1.007066
CADMIUM	228.802	Axial	2214.477	1.029156	1.043408	1.016196	1.033606	1.023412
CALCIUM	317.933	Radial	2052.891	10.43464	10.27229	10.65200	10.47402	10.34026
CHROMIUM	267.716	Axial	2337.517	0.9987973	1.010495	0.9860235	1.005626	0.9930454
COBALT	228.616	Axial	984.0146	0.9537096	0.9664578	0.9441704	0.9551736	0.9490366
COPPER	324.754	Axial	4571.297	1.048114	1.054444	1.036559	1.055376	1.046079
IRON	259.940	Radial	2610.492	10.49890	10.34514	10.66339	10.45468	10.53239
LEAD	220.353	Axial	443.8305	0.9998232	1.011553	0.9875776	1.004373	0.9957888
LITHIUM	670.784	Radial	1029.853	1.001239	0.9840920	1.011058	1.010134	0.9996726
MAGNESIUM	279.079	Radial	875.4017	10.42528	10.32981	10.45397	10.48752	10.42981
MANGANESE	257.610	Axial	21735.29	1.004296	1.014993	0.9968802	1.006778	0.9985353
MOLYBDENUM	202.030	Axial	712.8917	1.052945	1.061728	1.042353	1.060695	1.047003
NICKEL	231.604	Axial	906.3199	0.9624547	0.9740930	0.9533346	0.9620876	0.9603035
PHOSPHORUS	177.495	Axial	192.2036	1.018936	1.021827	1.015791	1.038776	0.9993506
POTASSIUM	766.490	Radial	954.0473	10.30384	10.23084	10.28883	10.27896	10.41674
SELENIUM	196.090	Axial	90.33451	0.9989623	0.9941009	1.003141	0.9997436	0.9988638
SILICON	251.611	Axial	1024.913	0.9763080	0.9791340	0.9651723	0.9870436	0.9738823
SILVER	328.068	Axial	3794.324	0.9815322	0.9894721	0.9703889	0.9815910	0.9846766
SODIUM	589.592	Radial	3775.417	10.32264	10.32752	10.26446	10.36710	10.33150
STRONTIUM	421.552	Radial	4254.944	0.4099197	0.4033015	0.4177507	0.4115087	0.4071177
SULFUR	182.034	Axial	501.7249	9.949151	10.00614	9.904340	10.07677	9.809354
THALLIUM	190.856	Axial	204.3513	1.048436	1.051263	1.041065	1.061942	1.039475
TIN	189.989	Axial	411.0331	0.9981337	1.013724	0.9877436	0.9988937	0.9921738
TITANIUM	334.941	Radial	1675.940	1.016422	1.006086	1.015072	1.024613	1.019916
VANADIUM	292.402	Radial	602.6563	1.005533	1.001630	1.005426	1.006661	1.008413
ZINC	206.200	Axial	2456.024	1.040149	1.053357	1.028118	1.036504	1.042616
CERIUM	535.353	Radial	28.83321	0.1174955	0.1127160	0.1123947	0.1281549	0.1167165
LANTHANUM	333.749	Radial	-7.58676	-0.006238472	-0.007262587	-0.007210297	-0.005055460	-0.005425545

Sample ID: ICB Units: mg/l
Analyzed: 03/21/25 08:59 Sequence: 12

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6328.376	6365.961	6267.279	6351.887
YTTRIUM	360.073	Axial	60664.17	61074.89	60180.28	60737.35
YTTRIUM	360.073	Radial	4761.581	4805.071	4733.376	4746.296
INDIUM	230.606	Axial	1338.325	1342.761	1325.871	1346.342

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.07264	-0.01088985	-0.01172645	-0.01235241	-0.008590677
ANTIMONY	206.833	Axial	0.2251624	-0.0003987517	-0.01018647	0.005967538	0.003022678
ARSENIC	189.042	Axial	0.9237901	-0.0006736891	0.005036661	-0.003558999	-0.003498730
BARIUM	233.527	Axial	-8.37943	-0.00005799971	-0.0003055036	-0.00006352405	0.0001950285
BERYLLIUM	313.042	Radial	4.589206	0.0001049571	-0.00001101949	0.0001212455	0.0002046452
BORON	249.678	Radial	-0.8663181	-0.003424130	-0.001999810	-0.006253464	-0.002019117
CADMIUM	228.802	Axial	8.961760	0.0001307474	-0.0002522605	0.0002913574	0.0003531454
CALCIUM	317.933	Radial	11.56242	-0.003013699	-0.005039895	-0.005197259	0.001196058
CERIUM	535.353	Radial	21.89100	0.03510836	0.02125335	0.05599806	0.02807366
CHROMIUM	267.716	Axial	-7.71367	0.0004348755	0.002055977	-0.0003329870	-0.0004183632
COBALT	228.616	Axial	-5.80999	0.0005244144	0.0001703281	0.0009123194	0.0004905958
COPPER	324.754	Axial	-12.4630	-0.0004221168	-0.001958116	0.0003207861	0.0003709791
IRON	259.940	Radial	0.6405882	-0.002713333	-0.005784321	-0.003044451	0.0006887723
LANTHANUM	333.749	Radial	-3.34023	0.001908260	-0.001700334	0.005946911	0.001478202
LEAD	220.353	Axial	0.5580686	0.001209050	0.001968905	-0.0002907159	0.001948959
LITHIUM	670.784	Radial	-6.84155	0.0003221891	0.005025227	-0.005212358	0.001153697
MAGNESIUM	279.079	Radial	-4.14421	-0.01570270	-0.02901495	-0.008565109	-0.009528054
MANGANESE	257.610	Axial	-11.8428	0.00006893814	0.0002327018	-0.0001037511	0.00007786377
MOLYBDENUM	202.030	Axial	-0.1504245	-0.001025402	-0.001003485	-0.0007581833	-0.001314538
NICKEL	231.604	Axial	3.253927	0.002076970	0.003308107	0.002789813	0.0001329903
PHOSPHORUS	177.495	Axial	1.242344	0.0006382391	0.0002457912	0.001495469	0.0001734567
POTASSIUM	766.490	Radial	-24.8854	-0.04154546	-0.06271899	-0.01218211	-0.04973528
SELENIUM	196.090	Axial	-0.1325899	-0.002132518	-0.003922313	0.0002356263	-0.002710867
SILICON	251.611	Axial	10.53433	0.0004118090	-0.003290501	0.002329679	0.002196250
SILVER	328.068	Axial	-15.5798	0.0004579817	-0.0003616989	0.001111318	0.0006243262
SODIUM	589.592	Radial	-21.5454	-0.04234216	-0.03826068	-0.03721900	-0.05154681
STRONTIUM	421.552	Radial	3.441063	-0.0003381468	-0.0003194042	-0.0003188893	-0.0003761468
SULFUR	182.034	Axial	3.576602	-0.007963784	-0.004628892	-0.002069123	-0.01719334
THALLIUM	190.856	Axial	-2.06157	-0.006360708	-0.01029482	-0.004271471	-0.004515837
TIN	189.989	Axial	-1.10582	-0.001215507	-0.001393846	-0.002568297	0.0003156206
TITANIUM	334.941	Radial	-0.3843956	0.001496667	0.002184966	0.001428471	0.0008765638
VANADIUM	292.402	Radial	-2.16681	-0.0009996125	0.0003361932	-0.004340741	0.001005710
ZINC	206.200	Axial	3.585146	0.00001933368	0.0004216840	-0.0001170951	-0.0002465878

Sample ID: ICVLL Units: mg/l
Analyzed: 03/21/25 09:04 Sequence: 15 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6480.793	6527.034	6480.721	6434.626
YTTRIUM	360.073	Axial	62267.15	62596.46	61689.66	62515.34
YTTRIUM	360.073	Radial	4749.061	4794.751	4765.439	4686.992
INDIUM	230.606	Axial	1349.785	1354.700	1345.800	1348.854

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.495547	0.2259552	0.2557577	0.1992951	0.2228129
ANTIMONY	206.833	Axial	1.745421	0.01045031	0.01413932	0.0005448450	0.01666678
ARSENIC	189.042	Axial	3.221635	0.01079751	0.007677450	0.01260435	0.01211073
BARIUM	233.527	Axial	25.74451	0.005599951	0.005757293	0.005315020	0.005727540
BERYLLIUM	313.042	Radial	36.01974	0.002075885	0.002072849	0.002103038	0.002051768
BORON	249.678	Radial	42.15783	0.2031552	0.2015757	0.2070023	0.2008875
CADMIUM	228.802	Axial	12.64161	0.001744789	0.001905496	0.001708117	0.001620754
CALCIUM	317.933	Radial	218.9715	1.049687	1.028901	1.069850	1.050309
CHROMIUM	267.716	Axial	13.14511	0.009389710	0.01023869	0.009430530	0.008499915
COBALT	228.616	Axial	3.287825	0.009055380	0.01091578	0.007186234	0.009064130
COPPER	324.754	Axial	32.46132	0.009839784	0.01073764	0.01014800	0.008633713
IRON	259.940	Radial	27.98396	0.1064772	0.1069004	0.1064902	0.1060409
LEAD	220.353	Axial	2.650096	0.005773866	0.003049365	0.002911243	0.01136099
LITHIUM	670.784	Radial	7.900956	0.01442687	0.01926225	0.01314363	0.01087472
MAGNESIUM	279.079	Radial	86.92338	1.057202	1.052370	1.041839	1.077396
MANGANESE	257.610	Axial	203.2158	0.01001036	0.009952902	0.009990331	0.01008784
MOLYBDENUM	202.030	Axial	4.457721	0.005791056	0.004587294	0.006731143	0.006054731
NICKEL	231.604	Axial	9.975440	0.008969076	0.009276269	0.009312054	0.008318904
PHOSPHORUS	177.495	Axial	20.46628	0.1029653	0.1026799	0.1031104	0.1031055
POTASSIUM	766.490	Radial	85.65894	1.116806	1.204180	1.106092	1.040146
SELENIUM	196.090	Axial	1.027709	0.01071712	0.01254520	0.01091236	0.008693820
SILICON	251.611	Axial	213.1371	0.1934798	0.1951891	0.1933616	0.1918887
SILVER	328.068	Axial	5.494364	0.005941825	0.006453713	0.006122941	0.005248822
SODIUM	589.592	Radial	379.3766	1.043726	1.058685	1.035392	1.037100
STRONTIUM	421.552	Radial	112.2358	0.01008167	0.009681586	0.01074440	0.009819009
SULFUR	182.034	Axial	53.31446	0.9842541	0.9822616	0.9944971	0.9760037
THALLIUM	190.856	Axial	0.9725170	0.008755581	0.004738269	0.01250789	0.009020586
TIN	189.989	Axial	20.42254	0.04940107	0.04786890	0.05065842	0.04967589
TITANIUM	334.941	Radial	81.77775	0.05087343	0.05047450	0.05053453	0.05161127
VANADIUM	292.402	Radial	12.14881	0.02264985	0.02431204	0.01946304	0.02417447
ZINC	206.200	Axial	145.0937	0.05997992	0.05967486	0.06037144	0.05989345
CERIUM	535.353	Radial	26.75930	0.09154492	0.1093420	0.02026122	0.1450315
LANTHANUM	333.749	Radial	-3.88467	0.0008375643	-0.00003740051	0.003607554	-0.001057460

Sample ID: ICSA Units: mg/l
Analyzed: 03/21/25 09:06 Sequence: 16 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6209.122	6129.217	6252.402	6245.747
YTTRIUM	360.073	Axial	56943.11	56528.67	56709.27	57591.38
YTTRIUM	360.073	Radial	4630.323	4647.364	4606.448	4637.159
INDIUM	230.606	Axial	1145.967	1139.647	1149.860	1148.394

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28393.75	509.1013	510.4642	510.3168	506.5230
ANTIMONY	206.833	Axial	1.137327	0.006447154	0.008384572	0.005569339	0.005387550
ARSENIC	189.042	Axial	0.08403090	-0.004907903	0.005279156	-0.008723808	-0.01127906
BARIUM	233.527	Axial	2.746264	0.001830300	0.002042907	0.001498521	0.001949471
BERYLLIUM	313.042	Radial	13.74000	0.0007008089	0.0007711001	0.0005939620	0.0007373647
BORON	249.678	Radial	-7.32224	-0.03529493	-0.04377895	-0.02316558	-0.03894027
CADMIUM	228.802	Axial	6.907919	-0.0007914524	-0.001340076	-0.0005217004	-0.0005125805
CALCIUM	373.690	Radial	49040.54	511.6463	512.0951	511.1054	511.7383
CERIUM	535.353	Radial	25.71762	0.08687797	0.09210637	0.06860486	0.09992269
CHROMIUM	267.716	Axial	-21.6744	-0.005823406	-0.005588440	-0.006658098	-0.005223679
COBALT	228.616	Axial	-4.42097	0.001132004	0.001184600	0.0006186421	0.001592770
COPPER	324.754	Axial	35.92912	0.01139299	0.01080001	0.01315651	0.01022246
IRON	271.441	Radial	4088.898	204.2666	204.9753	204.6482	203.1764
LANTHANUM	333.749	Radial	-5.25093	-0.001980646	-0.003569896	-0.0005366074	-0.001835433
LEAD	220.353	Axial	0.001554096	-0.00001767799	-0.002953027	0.003814099	-0.0009141064
LITHIUM	670.784	Radial	3.388934	0.01022379	0.007499565	0.01284848	0.01032333
MAGNESIUM	279.079	Radial	43430.23	524.8626	525.0418	527.6116	521.9344
MANGANESE	257.610	Axial	-188.674	-0.008460159	-0.008421298	-0.008899565	-0.008059613
MOLYBDENUM	202.030	Axial	1.266022	0.001139825	-0.001049952	0.001070068	0.003399359
NICKEL	231.604	Axial	1.116552	0.00004664138	0.0007722369	0.002482782	-0.003115095
PHOSPHORUS	177.495	Axial	2.463552	0.007550403	0.005835356	0.004268200	0.01254765
POTASSIUM	766.490	Radial	-14.2678	0.06504105	0.1320180	0.01179776	0.05130743
SELENIUM	196.090	Axial	-0.0003776531	-0.0006311484	0.001338015	-0.009709878	0.006478418
SILICON	251.611	Axial	7.525050	-0.002068487	-0.001757369	-0.002741088	-0.001707004
SILVER	328.068	Axial	0.5499225	0.004693209	0.006395151	0.002929782	0.004754695
SODIUM	589.592	Radial	2.931504	0.02404681	0.01554474	0.02474811	0.03184759
STRONTIUM	421.552	Radial	65.13134	0.005731087	0.005599843	0.005750671	0.005842748
SULFUR	182.034	Axial	3.682188	-0.004359289	-0.001408341	-0.008835063	-0.002834462
THALLIUM	190.856	Axial	-2.06452	-0.008104253	-0.005270176	-0.01320551	-0.005837069
TIN	189.989	Axial	-0.8421534	-0.0009146921	0.0005205528	-0.001545970	-0.001718660
TITANIUM	334.941	Radial	-8.47898	-0.003497506	-0.003020103	-0.004212625	-0.003259789
VANADIUM	292.402	Radial	3.004316	0.007661386	0.009155934	0.005167527	0.008660698
ZINC	206.200	Axial	28.26566	0.01097610	0.01163468	0.01056749	0.01072613

Sample ID: ICSAB Units: mg/l
Analyzed: 03/21/25 09:07 Sequence: 17 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6123.093	6094.031	6165.989	6109.260
YTTRIUM	360.073	Axial	56214.01	56153.76	56384.67	56103.61
YTTRIUM	360.073	Radial	4592.023	4591.745	4646.096	4538.227
INDIUM	230.606	Axial	1130.727	1126.804	1135.706	1129.670

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28105.66	508.1369	507.9550	508.2932	508.1624
ANTIMONY	206.833	Axial	65.43232	0.4952210	0.4819709	0.5044874	0.4992048
ARSENIC	189.042	Axial	93.75137	0.4935868	0.4938625	0.4935950	0.4933030
BARIUM	233.527	Axial	2877.452	0.5033935	0.5031571	0.4981878	0.5088356
BERYLLIUM	313.042	Radial	7744.502	0.5020147	0.5031202	0.5031462	0.4997776
BORON	249.678	Radial	195.7988	0.9730376	0.9653942	0.9798966	0.9738219
CADMIUM	228.802	Axial	2037.292	1.001625	1.004228	0.9991370	1.001509
CALCIUM	373.690	Radial	48742.41	512.7760	514.8863	512.0973	511.3445
CERIUM	535.353	Radial	27.25138	0.1076273	0.1062523	0.09839761	0.1182319
CHROMIUM	267.716	Axial	1065.295	0.4835681	0.4831471	0.4798800	0.4876772
COBALT	228.616	Axial	450.8244	0.5082139	0.5073731	0.5101328	0.5071357
COPPER	324.754	Axial	2078.896	0.5248616	0.5251200	0.5277100	0.5217547
IRON	271.441	Radial	4046.362	203.8270	204.4594	203.5623	203.4593
LANTHANUM	333.749	Radial	-7.33061	-0.006128269	-0.003544000	-0.007227607	-0.007613200
LEAD	220.353	Axial	385.3015	1.003979	1.009871	0.9986403	1.003426
LITHIUM	670.784	Radial	-2.97633	0.003950866	0.005520351	0.001227394	0.005104854
MAGNESIUM	279.079	Radial	42883.12	522.5730	520.8078	522.7431	524.1680
MANGANESE	257.610	Axial	10221.65	0.5000247	0.4984861	0.4984700	0.5031180
MOLYBDENUM	202.030	Axial	314.2119	0.4905902	0.4916067	0.4900808	0.4900831
NICKEL	231.604	Axial	827.5371	1.016567	1.016074	1.013166	1.020463
PHOSPHORUS	177.495	Axial	1.500117	0.002309558	0.002380534	0.004444040	0.0001041018
POTASSIUM	766.490	Radial	-15.4229	0.05152367	0.07964908	0.02104890	0.05387303
SELENIUM	196.090	Axial	41.82964	0.4891785	0.4917050	0.4686218	0.5072086
SILICON	251.611	Axial	917.1093	0.9595425	0.9562053	0.9576636	0.9647586
SILVER	328.068	Axial	3524.290	1.001450	1.007375	0.9931481	1.003827
SODIUM	589.592	Radial	16.73123	0.06280299	0.07267136	0.05436185	0.06137575
STRONTIUM	421.552	Radial	67.58374	0.006023902	0.006171096	0.006373777	0.005526832
SULFUR	182.034	Axial	4.052287	0.004478473	-0.003920196	0.01826946	-0.0009138455
THALLIUM	190.856	Axial	81.31783	0.4847077	0.4831396	0.4856052	0.4853782
TIN	189.989	Axial	177.5471	0.4994098	0.4983027	0.4963370	0.5035896
TITANIUM	334.941	Radial	785.3272	0.4897595	0.4842294	0.4919246	0.4931245
VANADIUM	292.402	Radial	286.5951	0.4921151	0.4921531	0.4954032	0.4887889
ZINC	206.200	Axial	2274.601	1.019194	1.016948	1.010457	1.030178

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 13:08 Sequence: 144 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6606.378	6537.113	6615.571	6666.448
YTTRIUM	360.073	Axial	62074.83	61550.10	62440.89	62233.48
YTTRIUM	360.073	Radial	4642.920	4644.899	4622.512	4661.350
INDIUM	230.606	Axial	1296.412	1282.596	1304.134	1302.507

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	555.8531	10.01538	10.05806	9.982202	10.00588
ANTIMONY	206.833	Axial	72.07470	0.5056670	0.5065184	0.5013402	0.5091424
ARSENIC	189.042	Axial	203.0988	0.9966275	1.021446	0.9760762	0.9923608
BARIUM	233.527	Axial	3120.020	0.5058902	0.5073954	0.5071987	0.5030763
BERYLLIUM	313.042	Radial	3168.238	0.2030158	0.2031283	0.2025560	0.2033633
BORON	249.678	Radial	206.8338	1.016580	1.014863	1.009601	1.025275
CADMIUM	228.802	Axial	1087.462	0.4934485	0.4953159	0.4952136	0.4898162
CALCIUM	373.690	Radial	5041.783	52.48713	52.49404	52.54676	52.42060
CHROMIUM	267.716	Axial	2368.486	0.9924139	0.9905176	0.9947380	0.9919860
COBALT	228.616	Axial	1000.740	0.9783714	0.9814594	0.9750130	0.9786418
COPPER	324.754	Axial	4482.054	1.022399	1.020888	1.021491	1.024817
IRON	259.940	Radial	2627.246	10.72691	10.82593	10.71099	10.64381
LEAD	220.353	Axial	219.0732	0.4978858	0.5008706	0.4968163	0.4959704
LITHIUM	670.784	Radial	1049.185	1.035252	1.035599	1.034309	1.035847
MAGNESIUM	279.079	Radial	863.8603	10.44370	10.44519	10.42341	10.46250
MANGANESE	257.610	Axial	22249.82	1.008182	1.012522	1.009258	1.002767
MOLYBDENUM	202.030	Axial	174.1106	0.2515685	0.2511358	0.2525852	0.2509844
NICKEL	231.604	Axial	904.0426	0.9685819	0.9744440	0.9645181	0.9667835
PHOSPHORUS	177.495	Axial	188.1418	0.9778657	0.9904613	0.9578008	0.9853349
POTASSIUM	766.490	Radial	4710.585	50.76855	50.64793	50.78543	50.87230
SELENIUM	196.090	Axial	89.80016	0.9739736	0.9989548	0.9576056	0.9653604
SILICON	251.611	Axial	2091.000	1.991719	1.982906	1.985829	2.006421
SILVER	328.068	Axial	1967.869	0.5086542	0.5156881	0.5055532	0.5047213
SODIUM	818.326	Radial	425.8316	48.65854	48.33877	48.20167	49.43519
STRONTIUM	421.552	Radial	10510.87	1.029014	1.039876	1.031471	1.015695
SULFUR	182.034	Axial	250.5980	4.831550	4.820145	4.821564	4.852940
THALLIUM	190.856	Axial	198.8732	1.029509	1.036998	1.025334	1.026194
TIN	189.989	Axial	201.2735	0.4938115	0.4953268	0.4945464	0.4915614
TITANIUM	334.941	Radial	1660.667	1.022408	1.022386	1.024327	1.020512
VANADIUM	292.402	Radial	599.0400	1.014643	1.015729	1.014152	1.014047
ZINC	206.200	Axial	2427.096	1.008083	1.034200	1.003092	0.9869560
CERIUM	535.353	Radial	11.84645	-0.07595074	-0.09520467	-0.07572951	-0.05691803
LANTHANUM	333.749	Radial	-5.64379	-0.002724504	0.001298355	-0.007675532	-0.001796334

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 13:09 Sequence: 145

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6500.583	6450.472	6478.073	6573.203
YTTRIUM	360.073	Axial	63161.18	63162.44	62846.01	63475.08
YTTRIUM	360.073	Radial	4658.592	4642.835	4663.165	4669.776
INDIUM	230.606	Axial	1386.365	1386.171	1373.908	1399.017

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.41699	-0.001158901	0.002965034	-0.006798940	0.0003572038
ANTIMONY	206.833	Axial	1.549869	0.009010980	0.008376811	0.01082255	0.007833580
ARSENIC	189.042	Axial	1.182952	0.0005257374	-0.002830788	0.006711694	-0.002303694
BARIUM	233.527	Axial	-5.56152	0.0004428523	0.0004888108	0.0004767420	0.0003630040
BERYLLIUM	313.042	Radial	2.253078	-0.00003853020	-0.00002363651	-0.0001271411	0.00003518703
BORON	249.678	Radial	-0.09731044	0.0002413195	-0.006138599	-0.006604498	0.01346706
CADMIUM	228.802	Axial	8.580114	-0.0001563555	0.0002413877	0.0003075940	-0.001018048
CALCIUM	317.933	Radial	12.79948	0.004660171	-0.002101506	0.004936846	0.01114517
CERIUM	535.353	Radial	10.12706	-0.09637344	-0.07242281	-0.1138042	-0.1028933
CHROMIUM	267.716	Axial	-6.31836	0.001123587	0.001652897	0.001087931	0.0006299325
COBALT	228.616	Axial	-6.82181	-0.0002055363	-0.0006148546	0.0002620882	-0.0002638425
COPPER	324.754	Axial	1.081806	0.002715501	0.003621825	0.001895982	0.002628695
IRON	259.940	Radial	1.778324	0.001971720	0.007522121	-0.001529328	-0.00007763407
LANTHANUM	333.749	Radial	-1.00535	0.006238556	0.004655899	0.008133961	0.005925808
LEAD	220.353	Axial	1.638520	0.003481061	0.007069126	0.003537390	-0.0001633328
LITHIUM	670.784	Radial	-3.13237	0.003826582	0.004305043	0.004459684	0.002715020
MAGNESIUM	279.079	Radial	-2.34736	0.004736459	0.0003533034	0.01229905	0.001557023
MANGANESE	257.610	Axial	-11.5324	0.00009867453	0.0002070836	-0.00009592833	0.0001848684
MOLYBDENUM	202.030	Axial	1.841747	0.001915173	0.004114070	-0.0006882886	0.002319737
NICKEL	231.604	Axial	1.366602	0.00004958106	-0.00002649625	-0.001920045	0.002095285
PHOSPHORUS	177.495	Axial	1.770855	0.003278677	0.004989106	0.004174795	0.0006721291
POTASSIUM	766.490	Radial	-21.1546	-0.007548502	-0.03210895	0.02109055	-0.01162711
SELENIUM	196.090	Axial	-0.4537256	-0.005649366	-0.007246366	-0.004231906	-0.005469825
SILICON	251.611	Axial	13.89379	0.003149370	0.003381360	0.002318342	0.003748408
SILVER	328.068	Axial	-12.7798	0.001318456	0.001420765	0.0005590936	0.001975509
SODIUM	589.592	Radial	-20.7681	-0.04149390	-0.05696432	-0.02802413	-0.03949324
STRONTIUM	421.552	Radial	2.014692	-0.0004701486	-0.0005254376	-0.0003896579	-0.0004953501
SULFUR	182.034	Axial	3.740732	-0.006675920	-0.009735745	-0.006687973	-0.003604043
THALLIUM	190.856	Axial	-1.18660	-0.001789906	0.001176172	-0.002998728	-0.003547162
TIN	189.989	Axial	0.4401048	0.002412292	0.0002308755	0.002434536	0.004571465
TITANIUM	334.941	Radial	-3.12714	-0.0001863856	-0.0002252964	-0.001693822	0.001359961
VANADIUM	292.402	Radial	-1.79493	-0.0004478079	-0.003593654	0.003952352	-0.001702122
ZINC	206.200	Axial	3.110620	-0.0002193744	0.0002892634	-0.0004254907	-0.0005218958

Sample ID: BLANK DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:11 Sequence: 146

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6632.181	6670.431	6636.243	6589.868
YTTRIUM	360.073	Axial	63841.81	64768.20	63729.59	63027.64
YTTRIUM	360.073	Radial	4731.888	4682.888	4765.205	4747.571
INDIUM	230.606	Axial	1409.046	1423.589	1405.042	1398.507

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.2915658	-0.003985359	-0.002430624	-0.004943532	-0.004581920
BARIUM	233.527	Axial	-4.51284	0.0006297733	0.0006900752	0.0003860101	0.0008132345
BORON	249.678	Radial	-1.19697	-0.005054920	-0.009156517	-0.004241066	-0.001767177
CADMIUM	228.802	Axial	8.726867	-0.0001731856	-0.00005230114	-0.0004760422	0.000008786488
CHROMIUM	267.716	Axial	-7.20553	0.0008034199	0.0009512100	0.001113652	0.0003453979
COBALT	228.616	Axial	-8.03536	-0.001183252	-0.002689798	-0.001195371	0.0003354133
LEAD	220.353	Axial	0.7158173	0.001474050	0.003689947	-0.0004595514	0.001191756
LITHIUM	670.784	Radial	-4.38361	0.002668443	0.002500027	0.002819786	0.002685517
SELENIUM	196.090	Axial	0.2875282	0.002440423	0.004910011	0.009000565	-0.006589307
SILVER	328.068	Axial	-15.7461	0.0006037955	0.001596053	0.001552724	-0.001337390
ALUMINUM	308.215	Radial	-3.44403	0.01712160	0.01594155	0.01394663	0.02147661
ANTIMONY	206.833	Axial	1.644736	0.009434799	0.01254931	0.01126983	0.004485254
BERYLLIUM	313.042	Radial	1.719846	-0.00007398027	-0.00003694058	-0.0001990587	0.00001405849
CALCIUM	317.933	Radial	18.66294	0.03349976	0.03212253	0.03652315	0.03185362
CERIUM	535.353	Radial	12.04338	-0.07649879	-0.1140053	-0.03259433	-0.08289669
COPPER	324.754	Axial	4.216499	0.003406694	0.003396218	0.003715175	0.003108688
IRON	259.940	Radial	4.336903	0.01208198	0.007160031	0.01307467	0.01601123
LANTHANUM	333.749	Radial	-1.07328	0.006132283	0.004273123	0.007167079	0.006956646
MAGNESIUM	279.079	Radial	-2.65018	0.001630006	0.007708339	-0.002491542	-0.0003267792
MANGANESE	257.610	Axial	-8.20541	0.0002594395	0.0003779983	0.00009783570	0.0003024845
MOLYBDENUM	202.030	Axial	1.639745	0.001567049	0.001793637	0.001815545	0.001091965
NICKEL	231.604	Axial	3.794275	0.002432175	0.002513246	0.004509286	0.0002739931
PHOSPHORUS	177.495	Axial	1.233886	0.0002858611	0.0004805930	-0.002845416	0.003222406
POTASSIUM	766.490	Radial	-24.8065	-0.04233703	-0.01356125	-0.03756829	-0.07588156
SILICON	251.611	Axial	27.86519	0.01601010	0.01717116	0.01493234	0.01592681
SODIUM	589.592	Radial	19.36033	0.06852308	0.06689947	0.07515813	0.06351162
STRONTIUM	421.552	Radial	3.713990	-0.0003087378	-0.0001524098	-0.0005830333	-0.0001907702
SULFUR	182.034	Axial	4.930359	0.01514071	0.003917766	0.01536977	0.02613460
THALLIUM	190.856	Axial	-0.9617000	-0.0006239858	-0.003497719	0.004840550	-0.003214789
TIN	189.989	Axial	-0.6280604	0.000001271252	-0.0005883554	0.0004279807	0.0001641884
TITANIUM	334.941	Radial	-2.88363	-0.000008866929	-0.0001934432	-0.0008571577	0.001024000
VANADIUM	292.402	Radial	-0.8126957	0.001254963	0.006316087	0.0007312146	-0.003282412
ZINC	206.200	Axial	9.169674	0.002261494	0.002725691	0.001919924	0.002138867

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:13 Sequence: 147

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6593.086	6558.433	6571.107	6649.719
YTTRIUM	360.073	Axial	62833.99	62391.08	63048.95	63061.93
YTTRIUM	360.073	Radial	4689.555	4674.314	4697.227	4697.123
INDIUM	230.606	Axial	1337.159	1326.732	1341.546	1343.198

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	187.9804	0.9238796	0.9238435	0.9427166	0.9050788
BARIUM	233.527	Axial	5805.877	0.9420960	0.9394544	0.9481265	0.9387072
BORON	249.678	Radial	187.0487	0.9102906	0.9104570	0.9057245	0.9146905
CADMIUM	228.802	Axial	1998.155	0.9120045	0.9136283	0.9176415	0.9047437
CHROMIUM	267.716	Axial	2130.961	0.8950694	0.8954492	0.8946394	0.8951195
COBALT	228.616	Axial	908.6573	0.8619717	0.8597371	0.8670692	0.8591088
LEAD	220.353	Axial	403.3463	0.8887266	0.8873478	0.8935854	0.8852465
LITHIUM	670.784	Radial	965.8665	0.9441796	0.9472922	0.9376385	0.9476079
SELENIUM	196.090	Axial	83.33686	0.9055832	0.9053215	0.9174681	0.8939599
SILVER	328.068	Axial	687.9621	0.1786360	0.1784878	0.1800537	0.1773665
ALUMINUM	308.215	Radial	517.6045	9.239679	9.308505	9.169369	9.241165
ANTIMONY	206.833	Axial	128.1072	0.9022738	0.8910351	0.9242815	0.8915049
BERYLLIUM	313.042	Radial	14419.33	0.9154299	0.9181037	0.9106548	0.9175312
CALCIUM	317.933	Radial	1879.934	9.599203	9.528476	9.589418	9.679714
CERIUM	535.353	Radial	10.24817	-0.09579993	-0.1024501	-0.09137709	-0.09357264
COPPER	324.754	Axial	4236.122	0.9547839	0.9521771	0.9622024	0.9499723
IRON	259.940	Radial	2410.427	9.743141	9.687347	9.731327	9.810751
LANTHANUM	333.749	Radial	-12.0522	-0.01485198	-0.01674531	-0.01156714	-0.01624349
MAGNESIUM	279.079	Radial	787.1464	9.424990	9.479264	9.332035	9.463671
MANGANESE	257.610	Axial	20277.52	0.9207224	0.9190108	0.9303647	0.9127916
MOLYBDENUM	202.030	Axial	645.0890	0.9361614	0.9365872	0.9457612	0.9261359
NICKEL	231.604	Axial	830.8877	0.8628953	0.8593779	0.8692718	0.8600363
PHOSPHORUS	177.495	Axial	174.7670	0.9097580	0.9174547	0.9085646	0.9032548
POTASSIUM	766.490	Radial	863.0946	9.388639	9.404684	9.308217	9.453017
SILICON	251.611	Axial	897.9268	0.8392592	0.8395235	0.8345372	0.8437171
SODIUM	589.592	Radial	3454.280	9.493927	9.550278	9.406187	9.525317
STRONTIUM	421.552	Radial	9692.652	0.9393959	0.9378336	0.9368103	0.9435436
SULFUR	182.034	Axial	448.5265	8.729809	8.779509	8.711024	8.698893
THALLIUM	190.856	Axial	189.1954	0.9498600	0.9564223	0.9499293	0.9432284
TIN	189.989	Axial	373.7651	0.8878825	0.8779641	0.8913669	0.8943163
TITANIUM	334.941	Radial	1520.497	0.9269585	0.9265624	0.9229339	0.9313791
VANADIUM	292.402	Radial	547.5028	0.9183851	0.9255809	0.9061187	0.9234557
ZINC	206.200	Axial	2262.974	0.9416109	0.9395881	0.9563187	0.9289259

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-01 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:14 Sequence: 148

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6680.158	6684.262	6699.744	6656.469
YTTRIUM	360.073	Axial	61551.03	61751.02	61695.66	61206.40
YTTRIUM	360.073	Radial	4851.266	4842.009	4877.160	4834.630
INDIUM	230.606	Axial	1198.222	1201.474	1200.297	1192.894

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.345092	0.01578257	0.01501683	0.01717417	0.01515671
BARIUM	233.527	Axial	2236.432	0.3590056	0.3574726	0.3586848	0.3608595
BORON	249.678	Radial	1.909011	0.009702177	0.01097489	0.01101419	0.007117454
CADMIUM	228.802	Axial	12.99461	0.001729853	0.001995884	0.001267802	0.001925873
CHROMIUM	267.716	Axial	71.68062	0.03338864	0.03334132	0.03410423	0.03272036
COBALT	228.616	Axial	28.96761	0.03644377	0.03616438	0.03682693	0.03634001
LEAD	220.353	Axial	71.03177	0.1746598	0.1766877	0.1668817	0.1804100
LITHIUM	670.784	Radial	16.37399	0.02224621	0.02220274	0.02188569	0.02265019
SELENIUM	196.090	Axial	0.2716098	0.002270661	-0.001104553	0.005315793	0.002600744
SILVER	328.068	Axial	6.949990	0.006337119	0.004027209	0.007586273	0.007397875
ALUMINUM	308.215	Radial	1103.257	18.95532	18.91563	18.90382	19.04651
ANTIMONY	206.833	Axial	1.924706	0.01132890	0.01042606	0.007498373	0.01606228
BERYLLIUM	313.042	Radial	40.72050	0.002317220	0.002256113	0.002242495	0.002453052
CALCIUM	373.690	Radial	117614.1	1171.173	1175.674	1166.249	1171.595
CERIUM	535.353	Radial	24.28625	0.05702107	0.05859546	0.1182828	-0.005815051
COPPER	324.754	Axial	183.6064	0.04460871	0.04542449	0.04475426	0.04364739
IRON	271.441	Radial	982.9897	46.86774	46.87259	46.62663	47.10401
LANTHANUM	333.749	Radial	33.33794	0.06973622	0.07061438	0.06924364	0.06935064
MAGNESIUM	279.079	Radial	4743.552	54.74542	54.88771	54.49294	54.85562
MANGANESE	257.610	Axial	62328.38	2.791833	2.784256	2.792938	2.798306
MOLYBDENUM	202.030	Axial	3.213797	0.003809633	0.002249435	0.004000067	0.005179396
NICKEL	231.604	Axial	44.61527	0.05047296	0.04989435	0.05280754	0.04871699
PHOSPHORUS	177.495	Axial	331.0118	1.705963	1.679406	1.705832	1.732650
POTASSIUM	766.490	Radial	228.0914	2.561399	2.559070	2.525893	2.599233
SILICON	251.611	Axial	9825.717	9.476102	9.501673	9.426037	9.500597
SODIUM	589.592	Radial	530.3384	1.422515	1.409106	1.434381	1.424058
STRONTIUM	421.552	Radial	6158.910	0.5767569	0.5787779	0.5769356	0.5745571
SULFUR	182.034	Axial	212.7956	4.044590	4.025264	4.005448	4.103059
THALLIUM	190.856	Axial	-1.06198	-0.001989337	-0.004330164	-0.002001443	0.0003635960
TIN	189.989	Axial	-0.1232969	0.001087774	0.0006169960	0.0006456571	0.002000668
TITANIUM	334.941	Radial	150.8131	0.09044316	0.09106950	0.08970967	0.09055031
VANADIUM	292.402	Radial	49.41280	0.08247224	0.08052349	0.08374597	0.08314727
ZINC	206.200	Axial	772.8607	0.3163597	0.3093482	0.3192800	0.3204511

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1838002-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:16 Sequence: 149

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6627.418	6604.218	6630.111	6647.925
YTTRIUM	360.073	Axial	62081.47	61454.65	62561.74	62228.02
YTTRIUM	360.073	Radial	4729.375	4709.449	4709.416	4769.258
INDIUM	230.606	Axial	1288.815	1271.306	1293.836	1301.304

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.026320	-0.0003785886	-0.004211451	-0.003837266	0.006912950
BARIUM	233.527	Axial	479.4452	0.07863935	0.07879578	0.07911713	0.07800513
BORON	249.678	Radial	0.2825566	0.002093363	0.002404805	0.001250930	0.002624354
CADMIUM	228.802	Axial	8.937323	-0.00007364775	0.0004056736	-0.0002403130	-0.0003863038
CHROMIUM	267.716	Axial	10.65323	0.008232055	0.007935056	0.007599383	0.009161726
COBALT	228.616	Axial	1.739414	0.007692850	0.008087827	0.006933981	0.008056744
LEAD	220.353	Axial	15.74524	0.03598296	0.03619074	0.03553856	0.03621957
LITHIUM	670.784	Radial	-0.9536460	0.005985827	0.007915961	0.008374264	0.001667255
SELENIUM	196.090	Axial	0.7263043	0.007231056	0.01390902	0.009493822	-0.001709674
SILVER	328.068	Axial	-10.8279	0.001766289	0.002043046	0.001576921	0.001678898
ALUMINUM	308.215	Radial	222.3810	3.980773	4.000091	3.972707	3.969519
ANTIMONY	206.833	Axial	0.9111128	0.004309687	0.004527326	0.005605723	0.002796013
BERYLLIUM	313.042	Radial	10.49399	0.0004785379	0.0005397453	0.0004953810	0.0004004873
CALCIUM	373.690	Radial	24828.99	253.6406	254.6262	253.9394	252.3562
CERIUM	535.353	Radial	16.85337	-0.02107066	-0.01800105	-0.03141479	-0.01379614
COPPER	324.754	Axial	45.51840	0.01282899	0.01239184	0.01336415	0.01273099
IRON	259.940	Radial	2632.867	10.55339	10.57727	10.57624	10.50666
LANTHANUM	333.749	Radial	6.071172	0.01968821	0.02278588	0.02000506	0.01627371
MAGNESIUM	279.079	Radial	1012.589	12.01329	12.08140	11.99411	11.96437
MANGANESE	257.610	Axial	13434.56	0.6070494	0.6086329	0.6079500	0.6045653
MOLYBDENUM	202.030	Axial	1.993658	0.002083925	0.003320321	0.001640109	0.001291346
NICKEL	231.604	Axial	12.11622	0.01175699	0.01005677	0.01409201	0.01112220
PHOSPHORUS	177.495	Axial	71.18333	0.3649405	0.3537806	0.3718892	0.3691518
POTASSIUM	766.490	Radial	32.22594	0.5582504	0.5701426	0.5502769	0.5543319
SILICON	251.611	Axial	2149.571	2.047687	2.065027	2.034927	2.043108
SODIUM	589.592	Radial	91.09756	0.2637639	0.2851982	0.2470771	0.2590163
STRONTIUM	421.552	Radial	1264.294	0.1209221	0.1208411	0.1211607	0.1207644
SULFUR	182.034	Axial	46.34552	0.8244809	0.8064156	0.8378214	0.8292056
THALLIUM	190.856	Axial	0.5010918	0.006544966	0.008829585	0.005393908	0.005411404
TIN	189.989	Axial	0.5501438	0.002751653	0.001140253	0.001856231	0.005258474
TITANIUM	334.941	Radial	30.43798	0.02009931	0.02128240	0.01978873	0.01922680
VANADIUM	292.402	Radial	7.885355	0.01565252	0.01787477	0.01235450	0.01672828
ZINC	206.200	Axial	173.5103	0.07039823	0.06890283	0.07235460	0.06993725

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1838002-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:18 Sequence: 150

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6695.289	6656.481	6682.827	6746.558
YTTRIUM	360.073	Axial	61408.68	61100.97	61476.93	61648.13
YTTRIUM	360.073	Radial	4843.822	4866.082	4825.310	4840.072
INDIUM	230.606	Axial	1190.074	1177.709	1193.092	1199.422

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	208.1652	1.007861	1.010163	1.000269	1.013150
BARIUM	233.527	Axial	8132.287	1.298928	1.298350	1.302702	1.295733
BORON	249.678	Radial	202.5101	0.9541192	0.9515314	0.9567070	0.9541193
CADMIUM	228.802	Axial	2105.768	0.9465870	0.9461517	0.9507167	0.9428927
CHROMIUM	267.716	Axial	2358.313	0.9751209	0.9789799	0.9756786	0.9707040
COBALT	228.616	Axial	985.1308	1.048733	1.051871	1.047230	1.047099
LEAD	220.353	Axial	474.1256	1.173830	1.180438	1.165402	1.175649
LITHIUM	670.784	Radial	1210.263	1.143949	1.141599	1.153149	1.137099
SELENIUM	196.090	Axial	89.33788	0.9559728	0.9469625	0.9722558	0.9487001
SILVER	328.068	Axial	740.7892	0.1963526	0.1953857	0.1955526	0.1981194
ALUMINUM	308.215	Radial	1643.642	28.24506	28.12782	28.31972	28.28764
ANTIMONY	206.833	Axial	135.4824	0.9396806	0.9330245	0.9424778	0.9435396
BERYLLIUM	313.042	Radial	15733.54	0.9670670	0.9640656	0.9706509	0.9664844
CALCIUM	373.690	Radial	114592.6	1142.836	1141.006	1147.162	1140.340
CERIUM	535.353	Radial	23.40904	0.04783315	0.02647059	0.04660906	0.07041979
COPPER	324.754	Axial	4381.836	1.010409	1.009208	1.008345	1.013675
IRON	271.441	Radial	1159.221	55.35554	55.22651	55.58165	55.25845
LANTHANUM	333.749	Radial	17.75050	0.04101189	0.03644651	0.04259551	0.04399364
MAGNESIUM	279.079	Radial	5446.516	62.94894	63.09588	62.91663	62.83433
MANGANESE	257.610	Axial	82747.66	3.697913	3.707546	3.698049	3.688144
MOLYBDENUM	202.030	Axial	667.5601	0.9539500	0.9529447	0.9528427	0.9560624
NICKEL	231.604	Axial	908.5374	1.060458	1.059436	1.060398	1.061539
PHOSPHORUS	177.495	Axial	511.7551	2.634710	2.625977	2.620923	2.657229
POTASSIUM	766.490	Radial	1286.614	13.45305	13.39497	13.49222	13.47196
SILICON	251.611	Axial	10394.23	10.04828	10.10713	9.984015	10.05369
SODIUM	589.592	Radial	4528.568	12.04575	12.04500	12.02830	12.06394
STRONTIUM	421.552	Radial	16654.57	1.563178	1.561560	1.564775	1.563199
SULFUR	182.034	Axial	702.4987	13.50812	13.57103	13.44885	13.50447
THALLIUM	190.856	Axial	176.2078	0.9937880	0.9972412	0.9858382	0.9982846
TIN	189.989	Axial	374.7684	1.000196	1.007026	0.9964004	0.9971625
TITANIUM	334.941	Radial	1778.319	1.049394	1.046030	1.054991	1.047161
VANADIUM	292.402	Radial	627.3476	1.018522	1.013247	1.023398	1.018923
ZINC	206.200	Axial	3102.232	1.271561	1.255541	1.285458	1.273684

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1838002-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:19 Sequence: 151

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6705.559	6697.127	6743.553	6675.998
YTTRIUM	360.073	Axial	61559.08	61466.44	61535.86	61674.93
YTTRIUM	360.073	Radial	4854.155	4820.629	4847.488	4894.349
INDIUM	230.606	Axial	1186.744	1186.799	1188.353	1185.079

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	203.1239	0.9818572	0.9991467	0.9655671	0.9808579
BARIUM	233.527	Axial	8000.062	1.275884	1.276169	1.270452	1.281032
BORON	249.678	Radial	196.6767	0.9246985	0.9273387	0.9268244	0.9199325
CADMIUM	228.802	Axial	2067.510	0.9278823	0.9250803	0.9259764	0.9325901
CHROMIUM	267.716	Axial	2306.058	0.9521197	0.9463722	0.9555621	0.9544249
COBALT	228.616	Axial	964.5988	1.029852	1.022273	1.031845	1.035437
LEAD	220.353	Axial	463.5356	1.150810	1.142738	1.151066	1.158627
LITHIUM	670.784	Radial	1209.625	1.140937	1.142120	1.145413	1.135279
SELENIUM	196.090	Axial	85.44569	0.9129463	0.9239967	0.8908630	0.9239793
SILVER	328.068	Axial	757.3513	0.2001655	0.2019219	0.1972868	0.2012876
ALUMINUM	308.215	Radial	1982.793	33.98437	33.93665	34.01746	33.99900
ANTIMONY	206.833	Axial	113.2796	0.7841674	0.7714491	0.7845088	0.7965444
BERYLLIUM	313.042	Radial	15604.95	0.9571173	0.9564021	0.9604401	0.9545098
CALCIUM	373.690	Radial	118377.2	1178.069	1177.210	1183.069	1173.928
CERIUM	535.353	Radial	20.21031	0.01151154	0.04900231	-0.04352256	0.02905486
COPPER	324.754	Axial	4282.678	0.9851937	0.9819656	0.9834665	0.9901490
IRON	271.441	Radial	1166.174	55.57040	55.93344	55.57507	55.20270
LANTHANUM	333.749	Radial	20.59209	0.04618674	0.04566902	0.05024102	0.04265018
MAGNESIUM	279.079	Radial	6069.236	69.99353	70.24657	69.62416	70.10986
MANGANESE	257.610	Axial	82642.07	3.687557	3.677601	3.672294	3.712776
MOLYBDENUM	202.030	Axial	630.0543	0.8989531	0.9036382	0.8924607	0.9007605
NICKEL	231.604	Axial	886.1566	1.037217	1.036954	1.035265	1.039431
PHOSPHORUS	177.495	Axial	557.2345	2.865184	2.901465	2.825185	2.868902
POTASSIUM	766.490	Radial	1256.053	13.11120	13.15119	13.09400	13.08840
SILICON	251.611	Axial	16851.26	16.25649	16.11623	16.40948	16.24376
SODIUM	589.592	Radial	4494.894	11.93096	11.98026	11.87642	11.93622
STRONTIUM	421.552	Radial	16560.87	1.551038	1.540279	1.559817	1.553017
SULFUR	182.034	Axial	674.2126	12.94093	12.89741	12.93913	12.98624
THALLIUM	190.856	Axial	168.3160	0.9521128	0.9667998	0.9330205	0.9565181
TIN	189.989	Axial	367.2839	0.9829623	0.9803848	0.9845127	0.9839894
TITANIUM	334.941	Radial	1553.389	0.9149243	0.9163298	0.9134299	0.9150133
VANADIUM	292.402	Radial	624.1429	1.011158	1.009894	1.010489	1.013091
ZINC	206.200	Axial	3029.848	1.240030	1.254731	1.220026	1.245333

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1838002-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:30 Sequence: 152

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6506.142	6543.025	6466.374	6509.026
YTTRIUM	360.073	Axial	59367.60	59287.23	59423.07	59392.51
YTTRIUM	360.073	Radial	4869.918	4830.957	4909.973	4868.825
INDIUM	230.606	Axial	1159.991	1156.904	1160.769	1162.300

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	203.7354	1.015170	1.005296	1.019442	1.020771
BARIUM	233.527	Axial	7985.952	1.312629	1.309606	1.317041	1.311240
BORON	249.678	Radial	198.1111	0.9284622	0.9403576	0.9188355	0.9261936
CADMIUM	228.802	Axial	2053.664	0.9500287	0.9429255	0.9542967	0.9528639
CHROMIUM	267.716	Axial	2292.970	0.9756808	0.9639338	0.9828058	0.9803028
COBALT	228.616	Axial	961.5893	1.050202	1.056234	1.044776	1.049596
LEAD	220.353	Axial	464.1770	1.178979	1.181130	1.176392	1.179416
LITHIUM	670.784	Radial	1200.818	1.129073	1.143248	1.121828	1.122144
SELENIUM	196.090	Axial	84.59051	0.9314823	0.9288221	0.9392022	0.9264226
SILVER	328.068	Axial	745.5119	0.2042172	0.2062513	0.2033794	0.2030211
ALUMINUM	308.215	Radial	1914.614	32.71397	33.02275	32.51698	32.60219
ANTIMONY	206.833	Axial	112.3011	0.8012621	0.7982254	0.8024193	0.8031416
BERYLLIUM	313.042	Radial	15858.46	0.9695477	0.9794276	0.9664504	0.9627650
CALCIUM	373.690	Radial	115480.5	1145.558	1157.242	1139.922	1139.512
CERIUM	535.353	Radial	21.95771	0.03038319	0.05311287	-0.003657682	0.04169437
COPPER	324.754	Axial	4246.827	1.012948	1.019210	1.011033	1.008602
IRON	271.441	Radial	1159.995	55.09762	55.60898	54.70294	54.98094
LANTHANUM	333.749	Radial	20.95874	0.04672813	0.04657770	0.04646199	0.04714470
MAGNESIUM	279.079	Radial	5006.369	57.55644	58.13251	57.54229	56.99452
MANGANESE	257.610	Axial	82296.70	3.784719	3.760715	3.810605	3.782836
MOLYBDENUM	202.030	Axial	627.3163	0.9225095	0.9128605	0.9265376	0.9281305
NICKEL	231.604	Axial	889.5816	1.065272	1.064985	1.064458	1.066372
PHOSPHORUS	177.495	Axial	479.9135	2.542566	2.526432	2.572238	2.529027
POTASSIUM	766.490	Radial	1250.332	13.01170	13.17500	12.84227	13.01782
SILICON	251.611	Axial	15656.78	15.66137	15.61714	15.67300	15.69397
SODIUM	589.592	Radial	4523.292	11.96784	12.07347	11.89266	11.93740
STRONTIUM	421.552	Radial	16869.74	1.574903	1.588505	1.582142	1.554062
SULFUR	182.034	Axial	654.6089	12.94996	12.92236	13.01527	12.91226
THALLIUM	190.856	Axial	168.0463	0.9724055	0.9654593	0.9733811	0.9783762
TIN	189.989	Axial	369.1486	1.010692	1.008135	1.004877	1.019063
TITANIUM	334.941	Radial	1552.880	0.9117042	0.9217374	0.9079221	0.9054531
VANADIUM	292.402	Radial	628.6359	1.015204	1.029788	1.005493	1.010331
ZINC	206.200	Axial	3035.807	1.280581	1.267503	1.285196	1.289045

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838014-01 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:31 Sequence: 153

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6871.637	6894.166	6991.679	6729.066
YTTRIUM	360.073	Axial	63905.70	64366.71	64134.91	63215.47
YTTRIUM	360.073	Radial	4985.303	4968.769	4963.056	5024.085
INDIUM	230.606	Axial	1268.624	1275.354	1275.251	1255.269

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.226745	0.01935950	0.02379542	0.01781194	0.01647112
BARIUM	233.527	Axial	5785.396	0.9008690	0.9003475	0.8931501	0.9091094
BORON	249.678	Radial	1.899970	0.009413810	0.005899472	0.01009307	0.01224889
CADMIUM	228.802	Axial	12.45605	0.001333289	0.0005710102	0.001433509	0.001995349
CHROMIUM	267.716	Axial	132.5016	0.05696874	0.05645088	0.05760147	0.05685386
COBALT	228.616	Axial	44.00539	0.04968581	0.04959722	0.04968188	0.04977834
LEAD	220.353	Axial	118.7426	0.2757656	0.2756810	0.2752003	0.2764154
LITHIUM	670.784	Radial	8.266766	0.01441789	0.01792102	0.007900865	0.01743178
SELENIUM	196.090	Axial	0.2369543	0.001812688	-0.007213031	0.008828162	0.003822932
SILVER	328.068	Axial	0.9163249	0.004763722	0.005810836	0.003962093	0.004518236
ALUMINUM	308.215	Radial	1538.906	25.70164	25.73969	25.70920	25.65604
ANTIMONY	206.833	Axial	-0.008618747	-0.002162764	-0.003070594	-0.0004876638	-0.002930036
BERYLLIUM	313.042	Radial	76.13656	0.004365438	0.004498033	0.004296692	0.004301589
CALCIUM	373.690	Radial	41551.14	402.6521	402.6916	403.5739	401.6909
CERIUM	535.353	Radial	28.26655	0.09321498	0.09105110	0.09815811	0.09043572
COPPER	324.754	Axial	376.7051	0.08574749	0.08498851	0.08539519	0.08685877
IRON	271.441	Radial	1603.981	74.42038	74.61348	74.12314	74.52453
LANTHANUM	333.749	Radial	34.28904	0.06977468	0.06915154	0.06680307	0.07336944
MAGNESIUM	279.079	Radial	1949.457	21.91344	22.01458	21.85437	21.87136
MANGANESE	257.610	Axial	107969.7	4.701776	4.714302	4.633590	4.757436
MOLYBDENUM	202.030	Axial	4.878837	0.005998388	0.005893358	0.006172752	0.005929053
NICKEL	231.604	Axial	84.59662	0.09143787	0.09088030	0.09128932	0.09214399
PHOSPHORUS	177.495	Axial	602.0718	3.021943	2.980767	2.984929	3.100132
POTASSIUM	766.490	Radial	411.4933	4.331379	4.344500	4.350159	4.299478
SILICON	251.611	Axial	12526.82	11.63793	11.55484	11.78600	11.57296
SODIUM	589.592	Radial	299.0694	0.7877980	0.7802664	0.7926982	0.7904295
STRONTIUM	421.552	Radial	6854.298	0.6246761	0.6266948	0.6227918	0.6245417
SULFUR	182.034	Axial	155.2060	2.844661	2.837566	2.804063	2.892355
THALLIUM	190.856	Axial	-1.31750	-0.003043601	-0.006845566	0.006678336	-0.008963574
TIN	189.989	Axial	0.9437133	0.003771963	0.003392839	0.004034831	0.003888219
TITANIUM	334.941	Radial	273.0718	0.1580391	0.1592333	0.1572840	0.1576000
VANADIUM	292.402	Radial	78.00186	0.1253075	0.1231307	0.1266210	0.1261708
ZINC	206.200	Axial	1096.709	0.4371525	0.4342774	0.4263157	0.4508643

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1838014-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:33 Sequence: 154

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7005.581	7048.074	6981.792	6986.877
YTTRIUM	360.073	Axial	64601.16	64990.29	64513.25	64299.92
YTTRIUM	360.073	Radial	4976.963	4983.757	5008.043	4939.089
INDIUM	230.606	Axial	1278.946	1283.263	1279.312	1274.263

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	215.2641	0.9960539	0.9847163	1.004846	0.9985998
BARIUM	233.527	Axial	12031.13	1.835991	1.832748	1.837601	1.837624
BORON	249.678	Radial	212.1445	0.9727466	0.9888427	0.9633019	0.9660954
CADMIUM	228.802	Axial	2210.215	0.9495399	0.9473763	0.9485561	0.9526874
CHROMIUM	267.716	Axial	2558.960	1.011058	1.011437	1.009830	1.011907
COBALT	228.616	Axial	1062.873	1.052835	1.051724	1.050048	1.056734
LEAD	220.353	Axial	547.7305	1.261803	1.260503	1.263590	1.261316
LITHIUM	670.784	Radial	1201.616	1.105620	1.104652	1.104393	1.107816
SELENIUM	196.090	Axial	92.24630	0.9433662	0.9400490	0.9510967	0.9389530
SILVER	328.068	Axial	772.7466	0.1947498	0.1922034	0.1967626	0.1952833
ALUMINUM	308.215	Radial	2096.812	35.04943	35.32228	34.89146	34.93455
ANTIMONY	206.833	Axial	142.0679	0.9417449	0.9403864	0.9500976	0.9347507
BERYLLIUM	313.042	Radial	16634.48	0.9950775	1.002173	0.9927369	0.9903226
CALCIUM	373.690	Radial	41061.40	398.5650	399.6232	398.8417	397.2303
CERIUM	535.353	Radial	27.26625	0.08298275	0.02573952	0.08429250	0.1389162
COPPER	324.754	Axial	4904.386	1.074885	1.068394	1.076558	1.079705
IRON	271.441	Radial	1766.656	82.10681	82.51156	81.74771	82.06117
LANTHANUM	333.749	Radial	19.50517	0.04329436	0.04329711	0.04066115	0.04592483
MAGNESIUM	279.079	Radial	2763.603	31.10313	31.35719	30.93606	31.01615
MANGANESE	257.610	Axial	128677.3	5.495430	5.484287	5.515317	5.486686
MOLYBDENUM	202.030	Axial	705.0452	0.9629239	0.9574535	0.9673511	0.9639673
NICKEL	231.604	Axial	999.5322	1.085635	1.085257	1.086925	1.084724
PHOSPHORUS	177.495	Axial	779.8080	3.839986	3.795603	3.858412	3.865945
POTASSIUM	766.490	Radial	1453.689	14.77164	14.86730	14.66689	14.78073
SILICON	251.611	Axial	13231.67	12.16088	12.22301	12.15791	12.10171
SODIUM	589.592	Radial	4371.283	11.31721	11.37410	11.30034	11.27720
STRONTIUM	421.552	Radial	17739.71	1.620456	1.631041	1.624221	1.606107
SULFUR	182.034	Axial	650.1851	11.93940	11.80161	11.98620	12.03040
THALLIUM	190.856	Axial	191.1001	1.002856	0.9970930	1.003520	1.007954
TIN	189.989	Axial	398.6677	0.9900376	0.9814421	0.9961483	0.9925224
TITANIUM	334.941	Radial	1981.548	1.137880	1.142555	1.134736	1.136350
VANADIUM	292.402	Radial	688.1046	1.087074	1.092391	1.086843	1.081987
ZINC	206.200	Axial	3537.954	1.386114	1.380690	1.397472	1.380178

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1838014-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:35 Sequence: 155

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6815.223	6868.069	6801.866	6775.734
YTTRIUM	360.073	Axial	63680.67	63747.77	64048.66	63245.58
YTTRIUM	360.073	Radial	4898.619	4912.165	4879.077	4904.615
INDIUM	230.606	Axial	1263.492	1275.123	1260.759	1254.595

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	201.3912	0.9576561	0.9576384	0.9522186	0.9631112
BARIUM	233.527	Axial	10786.03	1.692120	1.675154	1.701779	1.699426
BORON	249.678	Radial	200.0127	0.9318124	0.9371407	0.9281618	0.9301347
CADMIUM	228.802	Axial	2142.623	0.9461958	0.9442360	0.9497277	0.9446237
CHROMIUM	267.716	Axial	2465.324	1.001341	0.9954879	0.9956643	1.012870
COBALT	228.616	Axial	1007.999	1.010935	1.003884	1.028717	1.000205
LEAD	220.353	Axial	521.7516	1.216643	1.215722	1.227202	1.207006
LITHIUM	670.784	Radial	1154.942	1.079824	1.085987	1.082244	1.071242
SELENIUM	196.090	Axial	81.36817	0.8553484	0.8397097	0.8662683	0.8600674
SILVER	328.068	Axial	756.4382	0.1934135	0.1923255	0.1956639	0.1922511
ALUMINUM	308.215	Radial	2239.550	38.02790	38.01368	38.20536	37.86465
ANTIMONY	206.833	Axial	118.9194	0.8100205	0.8069901	0.8187531	0.8043185
BERYLLIUM	313.042	Radial	16145.66	0.9812953	0.9820076	0.9843233	0.9775551
CALCIUM	373.690	Radial	31562.38	311.2744	311.5586	312.6573	309.6074
CERIUM	535.353	Radial	23.16217	0.04207043	0.05585199	0.01130241	0.05905691
COPPER	324.754	Axial	4724.957	1.050534	1.053502	1.055896	1.042203
IRON	271.441	Radial	1438.699	67.93368	68.08220	68.31710	67.40172
LANTHANUM	333.749	Radial	20.96150	0.04650718	0.04690307	0.04676119	0.04585728
MAGNESIUM	279.079	Radial	2437.273	27.87282	27.87701	28.03386	27.70760
MANGANESE	257.610	Axial	88282.15	3.875826	3.848028	3.906317	3.873134
MOLYBDENUM	202.030	Axial	656.2639	0.9212832	0.9203910	0.9254181	0.9180403
NICKEL	231.604	Axial	956.6398	1.051719	1.050269	1.054551	1.050339
PHOSPHORUS	177.495	Axial	653.5922	3.307580	3.260707	3.328860	3.333172
POTASSIUM	766.490	Radial	1376.900	14.22336	14.15491	14.31671	14.19847
SILICON	251.611	Axial	17302.91	16.13698	16.13005	15.91877	16.36214
SODIUM	589.592	Radial	4156.795	10.93461	10.96701	10.92313	10.91369
STRONTIUM	421.552	Radial	16367.47	1.519024	1.516831	1.518919	1.521321
SULFUR	182.034	Axial	603.5028	11.38825	11.23882	11.40166	11.52427
THALLIUM	190.856	Axial	185.8314	0.9871938	0.9838225	0.9919555	0.9858033
TIN	189.989	Axial	385.9551	0.9701730	0.9751375	0.9744201	0.9609615
TITANIUM	334.941	Radial	1675.828	0.9779732	0.9808602	0.9874991	0.9655603
VANADIUM	292.402	Radial	657.4161	1.055301	1.052737	1.059852	1.053315
ZINC	206.200	Axial	3346.075	1.347479	1.347705	1.358387	1.336345

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 13:36 Sequence: 156 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6565.408	6522.572	6570.546	6603.108
YTTRIUM	360.073	Axial	62105.50	61350.05	62200.67	62765.78
YTTRIUM	360.073	Radial	4657.265	4604.699	4652.084	4715.011
INDIUM	230.606	Axial	1293.838	1279.474	1297.839	1304.201

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	554.0824	9.953562	9.999357	9.941397	9.919932
ANTIMONY	206.833	Axial	71.82638	0.5070728	0.5031350	0.5119815	0.5061019
ARSENIC	189.042	Axial	203.6771	1.005630	1.001974	1.008179	1.006737
BARIUM	233.527	Axial	3141.682	0.5125399	0.5111306	0.5099625	0.5165265
BERYLLIUM	313.042	Radial	3167.837	0.2023820	0.2044634	0.2023915	0.2002910
BORON	249.678	Radial	205.7555	1.008242	1.013789	1.009539	1.001398
CADMIUM	228.802	Axial	1087.221	0.4964230	0.4966227	0.4942792	0.4983671
CALCIUM	373.690	Radial	5047.974	52.39327	52.82888	52.44125	51.90967
CHROMIUM	267.716	Axial	2374.820	1.001227	0.9981580	0.9952415	1.010283
COBALT	228.616	Axial	1002.272	0.9817812	0.9842612	0.9726057	0.9884767
COPPER	324.754	Axial	4465.090	1.018061	1.022758	1.012950	1.018476
IRON	259.940	Radial	2614.562	10.64254	10.67720	10.67244	10.57798
LEAD	220.353	Axial	215.2573	0.4901925	0.4950438	0.4843732	0.4911604
LITHIUM	670.784	Radial	1038.196	1.021386	1.029754	1.014926	1.019480
MAGNESIUM	279.079	Radial	861.4090	10.38317	10.51112	10.36610	10.27229
MANGANESE	257.610	Axial	22233.61	1.013683	1.011988	1.007729	1.021331
MOLYBDENUM	202.030	Axial	173.5511	0.2523186	0.2512575	0.2496158	0.2560825
NICKEL	231.604	Axial	901.8356	0.9681010	0.9694739	0.9588436	0.9759855
PHOSPHORUS	177.495	Axial	187.8844	0.9826175	0.9810449	0.9846170	0.9821905
POTASSIUM	766.490	Radial	4756.154	51.10278	51.30846	51.25877	50.74111
SELENIUM	196.090	Axial	90.95874	0.9926148	1.004442	0.9815423	0.9918605
SILICON	251.611	Axial	2087.815	1.987770	2.000363	1.976749	1.986198
SILVER	328.068	Axial	1988.290	0.5135996	0.5134710	0.5123537	0.5149741
SODIUM	818.326	Radial	428.9350	48.87338	49.71088	48.86932	48.03995
STRONTIUM	421.552	Radial	10498.90	1.024653	1.024263	1.025100	1.024597
SULFUR	182.034	Axial	244.2748	4.737458	4.715776	4.724226	4.772372
THALLIUM	190.856	Axial	196.2498	1.018008	1.028959	1.008905	1.016162
TIN	189.989	Axial	200.5651	0.4930483	0.4939417	0.4902341	0.4949692
TITANIUM	334.941	Radial	1651.475	1.013691	1.022714	1.011829	1.006529
VANADIUM	292.402	Radial	600.0205	1.013272	1.023807	1.015996	1.000014
ZINC	206.200	Axial	2450.050	1.023820	1.023570	1.018248	1.029643
CERIUM	535.353	Radial	11.66294	-0.07825681	-0.04799032	-0.07912636	-0.1076537
LANTHANUM	333.749	Radial	-6.56673	-0.004448152	-0.005374186	-0.0008207805	-0.007149490

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 13:38 Sequence: 157

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6439.643	6428.799	6478.707	6411.423
YTTRIUM	360.073	Axial	62891.03	62980.63	63185.33	62507.13
YTTRIUM	360.073	Radial	4705.157	4709.492	4743.944	4662.035
INDIUM	230.606	Axial	1368.845	1372.070	1373.654	1360.810

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.14103	-0.01319945	0.02519740	-0.02845634	-0.03633940
ANTIMONY	206.833	Axial	0.7923740	0.003647408	0.009579186	-0.001030735	0.002393774
ARSENIC	189.042	Axial	1.272309	0.001028280	0.002421147	-0.0002611051	0.0009247980
BARIUM	233.527	Axial	-5.06508	0.0005155244	0.0003049140	0.0007360104	0.0005056489
BERYLLIUM	313.042	Radial	2.089909	-0.00005065147	-0.0001296910	0.00006106723	-0.00008333063
BORON	249.678	Radial	0.1454610	0.001462457	0.0001409090	-0.001956371	0.006202832
CADMIUM	228.802	Axial	8.537224	-0.0001435585	0.00005574843	-0.0001776478	-0.0003087760
CALCIUM	317.933	Radial	14.60982	0.01330640	0.01108141	0.01179147	0.01704631
CERIUM	535.353	Radial	12.64937	-0.06861453	-0.04311036	-0.06434203	-0.09839120
CHROMIUM	267.716	Axial	-7.52321	0.0005808210	0.002349256	-0.0003608227	-0.0002459708
COBALT	228.616	Axial	-7.22904	-0.0006608877	-0.0006119905	-0.0007955800	-0.0005750925
COPPER	324.754	Axial	-6.83905	0.0009352019	0.0005987125	0.002143195	0.00006369864
IRON	259.940	Radial	2.707427	0.005637142	0.009252081	0.003370963	0.004288382
LANTHANUM	333.749	Radial	0.9099515	0.009901106	0.008085384	0.01187145	0.009746481
LEAD	220.353	Axial	0.7032829	0.001503785	0.003512414	-0.001087399	0.002086340
LITHIUM	670.784	Radial	-2.44832	0.004532977	0.006502489	0.0006806402	0.006415800
MAGNESIUM	279.079	Radial	-2.67924	0.001154680	0.01371312	-0.02008996	0.009840870
MANGANESE	257.610	Axial	-11.6877	0.00008676466	0.00007800924	0.00007215708	0.0001101277
MOLYBDENUM	202.030	Axial	1.297111	0.001127955	-0.0004715620	0.002081428	0.001773998
NICKEL	231.604	Axial	0.8648467	-0.0004337370	-0.002077834	0.002027668	-0.001251045
PHOSPHORUS	177.495	Axial	1.392599	0.001324550	-0.0004985297	0.001381642	0.003090539
POTASSIUM	766.490	Radial	-21.8636	-0.01283237	-0.004146163	-0.009522128	-0.02482883
SELENIUM	196.090	Axial	-0.01818238	-0.0008025765	0.003923691	-0.01413832	0.007806898
SILICON	251.611	Axial	12.60205	0.001989246	0.0006290969	0.002423271	0.002915369
SILVER	328.068	Axial	-14.4723	0.0008789422	0.001624632	0.0003884588	0.0006237354
SODIUM	589.592	Radial	-28.6613	-0.06253023	-0.04701669	-0.06431186	-0.07626213
STRONTIUM	421.552	Radial	4.181332	-0.0002613117	-0.0001575395	-0.0005411647	-0.00008523080
SULFUR	182.034	Axial	3.198458	-0.01682601	-0.009556914	-0.02776154	-0.01315956
THALLIUM	190.856	Axial	-1.17168	-0.001797772	0.0009541051	-0.002413459	-0.003933963
TIN	189.989	Axial	-0.2898977	0.0007436062	-0.0004962996	0.0008103386	0.001916779
TITANIUM	334.941	Radial	-2.00194	0.0005115473	0.0006002287	0.001188937	-0.0002545240
VANADIUM	292.402	Radial	-1.29480	0.0004064006	0.003250973	0.001077806	-0.003109577
ZINC	206.200	Axial	3.398264	-0.00008663794	-0.0001924767	0.00001040738	-0.00007784450

Sample ID: MSD DF: 1x Ref Sample ID: L1838014-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:40 Sequence: 158

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6794.152	6742.668	6825.884	6813.905
YTTRIUM	360.073	Axial	63058.83	62451.44	63012.43	63712.62
YTTRIUM	360.073	Radial	4929.890	4966.854	4921.355	4901.461
INDIUM	230.606	Axial	1243.251	1222.589	1251.237	1255.927

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	201.6838	0.9620643	0.9696975	0.9655535	0.9509420
BARIUM	233.527	Axial	10935.35	1.720806	1.728921	1.721112	1.712385
BORON	249.678	Radial	196.1633	0.9080860	0.9128693	0.9098178	0.9015710
CADMIUM	228.802	Axial	2129.313	0.9432206	0.9447189	0.9463112	0.9386316
CHROMIUM	267.716	Axial	2457.690	1.001275	0.9958219	1.015301	0.9927016
COBALT	228.616	Axial	1004.961	1.024326	1.038205	1.018441	1.016331
LEAD	220.353	Axial	532.3393	1.261669	1.274723	1.258902	1.251380
LITHIUM	670.784	Radial	1154.397	1.072514	1.071476	1.076739	1.069325
SELENIUM	196.090	Axial	81.13547	0.8555012	0.8565744	0.8442225	0.8657068
SILVER	328.068	Axial	748.8673	0.1933868	0.1962735	0.1917570	0.1921300
ALUMINUM	308.215	Radial	2204.433	37.19532	37.19194	37.38872	37.00528
ANTIMONY	206.833	Axial	117.7968	0.8048363	0.8022942	0.8073885	0.8048262
BERYLLIUM	313.042	Radial	15935.77	0.9623850	0.9622047	0.9643581	0.9605921
CALCIUM	373.690	Radial	39508.82	387.1651	386.3326	387.4685	387.6943
CERIUM	535.353	Radial	29.93895	0.1152493	0.06544996	0.1367405	0.1435573
COPPER	324.754	Axial	4730.048	1.062074	1.067304	1.061780	1.057138
IRON	271.441	Radial	1663.166	78.03348	78.07831	78.64970	77.37242
LANTHANUM	333.749	Radial	24.69731	0.05307084	0.04799888	0.05591614	0.05529751
MAGNESIUM	279.079	Radial	2608.069	29.63404	29.68073	29.81619	29.40519
MANGANESE	257.610	Axial	99382.99	4.376597	4.393076	4.369763	4.366953
MOLYBDENUM	202.030	Axial	646.6335	0.9105722	0.9116116	0.9145847	0.9055202
NICKEL	231.604	Axial	953.2697	1.065227	1.080542	1.064916	1.050223
PHOSPHORUS	177.495	Axial	711.0627	3.609876	3.600925	3.657635	3.571069
POTASSIUM	766.490	Radial	1376.748	14.13305	14.06952	14.15343	14.17620
SILICON	251.611	Axial	15580.51	14.67313	14.63624	14.99594	14.38722
SODIUM	589.592	Radial	4222.220	11.03621	10.99259	11.13838	10.97766
STRONTIUM	421.552	Radial	16845.15	1.553410	1.566916	1.541187	1.552128
SULFUR	182.034	Axial	607.9707	11.50794	11.44370	11.78726	11.29286
THALLIUM	190.856	Axial	180.5498	0.9748590	0.9809753	0.9852643	0.9583373
TIN	189.989	Axial	383.0617	0.9787189	0.9913325	0.9845378	0.9602865
TITANIUM	334.941	Radial	1609.888	0.9335832	0.9345977	0.9406123	0.9255395
VANADIUM	292.402	Radial	666.0083	1.062282	1.060153	1.072199	1.054493
ZINC	206.200	Axial	3456.764	1.396524	1.415178	1.368009	1.406386

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-02 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:41 Sequence: 159

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6656.659	6682.889	6591.885	6695.204
YTTRIUM	360.073	Axial	62236.43	62365.32	62032.47	62311.51
YTTRIUM	360.073	Radial	4811.492	4802.922	4769.961	4861.593
INDIUM	230.606	Axial	1214.838	1225.607	1205.041	1213.866

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.401947	0.01615350	0.01223756	0.01967263	0.01655030
BARIUM	233.527	Axial	3835.634	0.6169316	0.6151169	0.6213597	0.6143183
BORON	249.678	Radial	-0.6925196	-0.002528383	-0.01307336	0.007465759	-0.001977553
CADMIUM	228.802	Axial	11.38487	0.001017005	0.0009211482	0.0006449812	0.001484885
CHROMIUM	267.716	Axial	100.8805	0.04559457	0.04562310	0.04634149	0.04481912
COBALT	228.616	Axial	37.07475	0.04443716	0.04351972	0.04469955	0.04509220
LEAD	220.353	Axial	35.02182	0.08491511	0.08663604	0.08300245	0.08510685
LITHIUM	670.784	Radial	22.13795	0.02780313	0.02868771	0.02398542	0.03073627
SELENIUM	196.090	Axial	-0.09622833	-0.001632106	0.003697705	0.006741246	-0.01533527
SILVER	328.068	Axial	-7.51567	0.002617741	0.001823122	0.002318207	0.003711894
ALUMINUM	308.215	Radial	1581.836	27.36818	27.52153	27.33680	27.24620
ANTIMONY	206.833	Axial	1.255552	0.006635678	0.01157060	-0.004097828	0.01243426
BERYLLIUM	313.042	Radial	63.35066	0.003738524	0.003782187	0.003761568	0.003671818
CALCIUM	373.690	Radial	79974.34	802.9553	806.3467	801.5998	800.9194
CERIUM	535.353	Radial	27.24421	0.09274847	0.06471574	0.1045256	0.1090041
COPPER	324.754	Axial	244.4230	0.05794948	0.05937896	0.05732430	0.05714520
IRON	271.441	Radial	1542.788	74.16636	74.35782	73.86212	74.27916
LANTHANUM	333.749	Radial	32.18751	0.06808155	0.06633770	0.06594687	0.07196008
MAGNESIUM	279.079	Radial	2177.208	25.35267	25.43631	25.35815	25.26355
MANGANESE	257.610	Axial	72926.78	3.278061	3.273632	3.295699	3.264852
MOLYBDENUM	202.030	Axial	3.678014	0.004496174	0.003101101	0.005483346	0.004904075
NICKEL	231.604	Axial	59.05670	0.06630723	0.06468881	0.06664188	0.06759099
PHOSPHORUS	177.495	Axial	496.5905	2.571329	2.573205	2.555986	2.584795
POTASSIUM	766.490	Radial	499.1470	5.387284	5.401958	5.346224	5.413670
SILICON	251.611	Axial	10722.69	10.22790	10.36951	10.18596	10.12822
SODIUM	589.592	Radial	488.8854	1.323352	1.325594	1.327913	1.316548
STRONTIUM	421.552	Radial	19338.28	1.827390	1.837304	1.824179	1.820688
SULFUR	182.034	Axial	115.4767	2.165489	2.221074	2.142870	2.132522
THALLIUM	190.856	Axial	-1.24801	-0.002941402	-0.002066593	-0.003355579	-0.003402035
TIN	189.989	Axial	0.7301118	0.003326483	0.001800497	0.004734489	0.003444464
TITANIUM	334.941	Radial	191.4994	0.1152994	0.1141624	0.1151430	0.1165930
VANADIUM	292.402	Radial	63.28096	0.1057528	0.1081844	0.1055010	0.1035730
ZINC	206.200	Axial	490.6492	0.2010014	0.1974649	0.2037011	0.2018384

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-03 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:43 Sequence: 160

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6963.688	6972.126	6963.775	6955.161
YTTRIUM	360.073	Axial	64646.08	64821.95	65325.54	63790.76
YTTRIUM	360.073	Radial	4934.530	4922.853	4916.728	4964.011
INDIUM	230.606	Axial	1315.040	1314.877	1322.353	1307.891

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	6.007284	0.02270012	0.02288112	0.02357445	0.02164478
BARIUM	233.527	Axial	6029.531	0.9263289	0.9253653	0.9298518	0.9237697
BORON	249.678	Radial	0.8986672	0.004881596	0.002680789	0.005364652	0.006599348
CADMIUM	228.802	Axial	13.81100	0.001844172	0.001945863	0.001702191	0.001884463
CHROMIUM	267.716	Axial	132.2759	0.05617959	0.05746815	0.05558701	0.05548363
COBALT	228.616	Axial	51.62348	0.05543908	0.05601269	0.05549804	0.05480650
LEAD	220.353	Axial	144.2304	0.3231287	0.3278937	0.3220979	0.3193947
LITHIUM	670.784	Radial	14.31806	0.02009103	0.01760281	0.02261219	0.02005807
SELENIUM	196.090	Axial	-0.08906819	-0.001558293	0.003075096	-0.01314528	0.005395306
SILVER	328.068	Axial	-6.19585	0.003014571	0.002626297	0.003224930	0.003192487
ALUMINUM	308.215	Radial	1942.662	32.75730	32.76208	32.80715	32.70268
ANTIMONY	206.833	Axial	0.8665074	0.003695112	0.01227529	0.0009734610	-0.002163419
BERYLLIUM	313.042	Radial	84.86870	0.004938759	0.004846173	0.004952426	0.005017679
CALCIUM	373.690	Radial	21037.68	205.9756	205.3868	206.0867	206.4532
CERIUM	535.353	Radial	29.34986	0.1084717	0.1652379	0.1210814	0.03909573
COPPER	324.754	Axial	498.2924	0.1113517	0.1122426	0.1112065	0.1106060
IRON	271.441	Radial	2008.195	94.13557	94.41138	94.01730	93.97805
LANTHANUM	333.749	Radial	37.72206	0.07665871	0.07683715	0.07751383	0.07562513
MAGNESIUM	279.079	Radial	934.2562	10.62681	10.68226	10.59357	10.60459
MANGANESE	257.610	Axial	97186.15	4.175619	4.173812	4.200824	4.152220
MOLYBDENUM	202.030	Axial	3.584339	0.004128791	0.005267422	0.004432867	0.002686084
NICKEL	231.604	Axial	72.54269	0.07541422	0.07599693	0.07462125	0.07562448
PHOSPHORUS	177.495	Axial	513.1297	2.539830	2.521968	2.561255	2.536267
POTASSIUM	766.490	Radial	320.0789	3.450613	3.492156	3.430748	3.428936
SILICON	251.611	Axial	12559.32	11.53585	11.59833	11.33774	11.67148
SODIUM	589.592	Radial	694.7965	1.827635	1.839876	1.812300	1.830728
STRONTIUM	421.552	Radial	5002.083	0.4603873	0.4584639	0.4619911	0.4607067
SULFUR	182.034	Axial	135.0730	2.430970	2.431849	2.437019	2.424043
THALLIUM	190.856	Axial	-1.37944	-0.003084829	0.003305413	-0.005523936	-0.007035965
TIN	189.989	Axial	1.028640	0.003892795	0.004743044	0.003507963	0.003427376
TITANIUM	334.941	Radial	282.1152	0.1648737	0.1661416	0.1630983	0.1653811
VANADIUM	292.402	Radial	76.95370	0.1249069	0.1249091	0.1249296	0.1248821
ZINC	206.200	Axial	1631.979	0.6423999	0.6337726	0.6544324	0.6389947

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-04 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:45 Sequence: 161

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6865.556	6881.487	6785.181	6930.001
YTTRIUM	360.073	Axial	64125.22	64673.31	63115.38	64586.99
YTTRIUM	360.073	Radial	4953.812	4906.709	4982.999	4971.726
INDIUM	230.606	Axial	1265.317	1270.123	1248.132	1277.696

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.070368	0.01861811	0.02135567	0.01246156	0.02203709
BARIUM	233.527	Axial	4454.374	0.6944570	0.6947453	0.6944685	0.6941573
BORON	249.678	Radial	0.3133156	0.002200941	0.007566238	-0.0004334721	-0.0005299427
CADMIUM	228.802	Axial	11.48005	0.0009027266	0.0009552411	0.0007620334	0.0009909052
CHROMIUM	267.716	Axial	95.72755	0.04225346	0.04244964	0.04275169	0.04155905
COBALT	228.616	Axial	44.26796	0.05005793	0.05083983	0.04947096	0.04986299
LEAD	220.353	Axial	38.26842	0.08911641	0.08607008	0.09244508	0.08883408
LITHIUM	670.784	Radial	13.95203	0.01971198	0.02165340	0.01807211	0.01941044
SELENIUM	196.090	Axial	-0.2430288	-0.003169045	-0.007151157	-0.0002635787	-0.002092398
SILVER	328.068	Axial	-3.70575	0.003612863	0.003934850	0.002795870	0.004107870
ALUMINUM	308.215	Radial	1805.196	30.32658	30.35426	30.33555	30.28994
ANTIMONY	206.833	Axial	2.125715	0.01238196	0.0006151147	0.02515055	0.01138023
BERYLLIUM	313.042	Radial	75.19892	0.004338145	0.004431406	0.004388601	0.004194428
CALCIUM	373.690	Radial	53442.21	521.1656	522.2244	520.9254	520.3469
CERIUM	535.353	Radial	25.47732	0.06463133	0.07063818	0.08510868	0.03814713
COPPER	324.754	Axial	274.2224	0.06288904	0.06278827	0.06392359	0.06195525
IRON	271.441	Radial	1512.095	70.60451	70.83504	70.45854	70.51993
LANTHANUM	333.749	Radial	32.69826	0.06730637	0.06772302	0.06673045	0.06746563
MAGNESIUM	279.079	Radial	758.4759	8.600324	8.656657	8.572063	8.572251
MANGANESE	257.610	Axial	51521.33	2.245552	2.250458	2.242989	2.243208
MOLYBDENUM	202.030	Axial	3.988664	0.004763295	0.004707208	0.004650351	0.004932325
NICKEL	231.604	Axial	64.30692	0.06938830	0.07083885	0.07074977	0.06657628
PHOSPHORUS	177.495	Axial	524.7440	2.634638	2.584812	2.647491	2.671610
POTASSIUM	766.490	Radial	447.4338	4.718858	4.724268	4.772896	4.659410
SILICON	251.611	Axial	15114.80	13.99760	13.87711	14.13814	13.97754
SODIUM	589.592	Radial	249.1795	0.6631703	0.6722848	0.6574715	0.6597547
STRONTIUM	421.552	Radial	3580.757	0.3281060	0.3301407	0.3263763	0.3278009
SULFUR	182.034	Axial	139.4256	2.548985	2.507467	2.562263	2.577225
THALLIUM	190.856	Axial	-0.6613681	0.0004612226	0.003469408	0.002940798	-0.005026538
TIN	189.989	Axial	0.7412462	0.003276580	0.001883368	0.004475206	0.003471167
TITANIUM	334.941	Radial	292.2808	0.1700982	0.1703535	0.1695307	0.1704104
VANADIUM	292.402	Radial	67.32270	0.1091749	0.1083263	0.1116364	0.1075621
ZINC	206.200	Axial	2712.145	1.083841	1.087135	1.074698	1.089689

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-05 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:46 Sequence: 162

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6977.700	6932.678	6950.346	7050.075
YTTRIUM	360.073	Axial	65545.76	65165.81	65724.00	65747.47
YTTRIUM	360.073	Radial	5001.301	5005.498	5026.840	4971.567
INDIUM	230.606	Axial	1313.868	1304.019	1317.679	1319.908

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.972123	0.02249135	0.02139467	0.02617615	0.01990323
BARIUM	233.527	Axial	7000.290	1.073088	1.069688	1.075707	1.073869
BORON	249.678	Radial	2.859103	0.01377954	0.01013349	0.01328390	0.01792123
CADMIUM	228.802	Axial	12.06210	0.001072031	0.0003666129	0.001382667	0.001466811
CHROMIUM	267.716	Axial	102.5153	0.04431606	0.04477183	0.04420901	0.04396734
COBALT	228.616	Axial	25.73483	0.03066754	0.03158397	0.03026212	0.03015652
LEAD	220.353	Axial	46.62840	0.1045528	0.1045370	0.1081831	0.1009384
LITHIUM	670.784	Radial	16.68117	0.02205088	0.02436673	0.02415063	0.01763529
SELENIUM	196.090	Axial	0.7954889	0.007551476	0.009697216	0.009372486	0.003584727
SILVER	328.068	Axial	-9.74195	0.002173507	0.001717045	0.002436918	0.002366558
ALUMINUM	308.215	Radial	2073.418	34.49123	34.66772	34.33454	34.47141
ANTIMONY	206.833	Axial	0.7196301	0.002678286	0.0005377142	-0.001384992	0.008882137
BERYLLIUM	313.042	Radial	65.71588	0.003730339	0.003646766	0.003751267	0.003792984
CALCIUM	373.690	Radial	27717.43	267.7444	268.5082	267.4164	267.3085
CERIUM	535.353	Radial	29.84584	0.1094573	0.1243471	0.06993317	0.1340916
COPPER	324.754	Axial	321.1966	0.07169818	0.07270683	0.07126521	0.07112250
IRON	271.441	Radial	1222.717	56.54878	56.73374	56.42307	56.48953
LANTHANUM	333.749	Radial	44.72485	0.08827496	0.08565843	0.09247498	0.08669146
MAGNESIUM	279.079	Radial	1304.544	14.62819	14.66558	14.57283	14.64616
MANGANESE	257.610	Axial	47903.08	2.054398	2.056333	2.061135	2.045725
MOLYBDENUM	202.030	Axial	2.116493	0.002107079	0.002767838	0.001645915	0.001907484
NICKEL	231.604	Axial	48.33360	0.04985247	0.04950885	0.04914918	0.05089938
PHOSPHORUS	177.495	Axial	723.4888	3.576235	3.578595	3.550311	3.599800
POTASSIUM	766.490	Radial	599.1837	6.187931	6.229462	6.154505	6.179826
SILICON	251.611	Axial	16521.70	14.96858	15.03281	14.98754	14.88539
SODIUM	589.592	Radial	419.5783	1.095451	1.092645	1.078237	1.115472
STRONTIUM	421.552	Radial	5860.005	0.5322571	0.5335735	0.5303754	0.5328224
SULFUR	182.034	Axial	178.5060	3.232186	3.226934	3.256954	3.212671
THALLIUM	190.856	Axial	-0.7576970	0.00008672533	0.002957695	0.0005471730	-0.003244692
TIN	189.989	Axial	0.5318690	0.002706007	0.005202803	0.002680273	0.0002349454
TITANIUM	334.941	Radial	612.0110	0.3509302	0.3519891	0.3496362	0.3511654
VANADIUM	292.402	Radial	72.28565	0.1159522	0.1152231	0.1164084	0.1162251
ZINC	206.200	Axial	853.8351	0.3346884	0.3356842	0.3338161	0.3345648

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-06 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:48 Sequence: 163

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6727.736	6714.531	6714.443	6754.233
YTTRIUM	360.073	Axial	62283.92	62434.98	62371.66	62045.13
YTTRIUM	360.073	Radial	4876.315	4909.140	4865.913	4853.891
INDIUM	230.606	Axial	1193.685	1195.540	1195.496	1190.019

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.218052	0.01986917	0.02030893	0.02234652	0.01695207
BARIUM	233.527	Axial	5893.352	0.9371515	0.9443902	0.9325640	0.9345004
BORON	249.678	Radial	14.35756	0.06786322	0.07030991	0.07146712	0.06181264
CADMIUM	228.802	Axial	35.36442	0.01173752	0.01124447	0.01167709	0.01229100
CHROMIUM	267.716	Axial	82.54511	0.03763568	0.03736263	0.03877942	0.03676499
COBALT	228.616	Axial	27.76957	0.03529443	0.03512435	0.03608497	0.03467396
LEAD	220.353	Axial	128.1384	0.3162654	0.3198764	0.3133208	0.3155990
LITHIUM	670.784	Radial	20.13158	0.02566505	0.02764323	0.02623207	0.02311984
SELENIUM	196.090	Axial	0.2429070	0.001922516	-0.003784328	-0.004337035	0.01388891
SILVER	328.068	Axial	-7.48856	0.002625924	0.003396315	0.001947023	0.002534434
ALUMINUM	308.215	Radial	1407.467	24.03704	23.92759	24.13415	24.04936
ANTIMONY	206.833	Axial	0.7814557	0.003330105	0.01164972	0.002340592	-0.004000003
BERYLLIUM	313.042	Radial	52.71682	0.003037012	0.002977815	0.002937859	0.003195361
CALCIUM	373.690	Radial	137977.7	1366.881	1363.538	1371.122	1365.984
CERIUM	535.353	Radial	23.89679	0.05138311	0.06829066	0.08498799	0.0008706720
COPPER	324.754	Axial	341.0407	0.07982096	0.08067468	0.07875429	0.08003392
IRON	271.441	Radial	1297.208	61.53247	61.29181	61.95643	61.34918
LANTHANUM	333.749	Radial	29.90006	0.06310391	0.06298214	0.06288805	0.06344154
MAGNESIUM	279.079	Radial	8954.415	102.7829	102.5080	103.0448	102.7959
MANGANESE	257.610	Axial	69402.74	3.086726	3.123000	3.089004	3.048176
MOLYBDENUM	202.030	Axial	8.470568	0.01125783	0.01249762	0.01024995	0.01102591
NICKEL	231.604	Axial	76.07229	0.08732253	0.08730485	0.08869823	0.08596452
PHOSPHORUS	177.495	Axial	595.3510	3.051474	3.094289	3.058144	3.001990
POTASSIUM	766.490	Radial	414.0851	4.449732	4.441410	4.393326	4.514458
SILICON	251.611	Axial	14287.14	13.62106	13.58281	13.57291	13.70745
SODIUM	589.592	Radial	586.4005	1.563257	1.560161	1.569360	1.560250
STRONTIUM	421.552	Radial	17519.75	1.633437	1.639463	1.622520	1.638327
SULFUR	182.034	Axial	563.5692	10.76821	10.89425	10.75964	10.65074
THALLIUM	190.856	Axial	-1.72772	-0.005739396	-0.006616016	-0.009121323	-0.001480850
TIN	189.989	Axial	0.8186138	0.003581438	0.006828337	0.003995323	-0.00007934654
TITANIUM	334.941	Radial	1290.271	0.7568038	0.7558481	0.7508514	0.7637120
VANADIUM	292.402	Radial	49.16014	0.08166092	0.08113288	0.08071072	0.08313917
ZINC	206.200	Axial	4648.285	1.896942	1.922237	1.906340	1.862248

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-07 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:50 Sequence: 164

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6858.011	6835.501	6875.154	6863.377
YTTRIUM	360.073	Axial	63469.28	63119.08	63456.15	63832.62
YTTRIUM	360.073	Radial	4852.902	4854.922	4833.392	4870.392
INDIUM	230.606	Axial	1241.601	1232.349	1248.987	1243.467

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.469832	0.02059134	0.02704432	0.01564441	0.01908531
BARIUM	233.527	Axial	4526.939	0.7065045	0.6940600	0.7081558	0.7172978
BORON	249.678	Radial	-2.07482	-0.009013069	-0.008516961	-0.007905607	-0.01061664
CADMIUM	228.802	Axial	10.89802	0.0006528093	0.0007148964	0.0004464809	0.0007970505
CHROMIUM	267.716	Axial	145.5495	0.06232081	0.05983937	0.06327798	0.06384507
COBALT	228.616	Axial	54.04141	0.06081857	0.06016601	0.05928241	0.06300729
LEAD	220.353	Axial	40.79052	0.09678402	0.09681763	0.09655874	0.09697569
LITHIUM	670.784	Radial	34.65711	0.03939327	0.04199719	0.04158545	0.03459716
SELENIUM	196.090	Axial	0.8163507	0.007902824	0.01247759	-0.001070306	0.01230119
SILVER	328.068	Axial	-2.61831	0.003878193	0.002951703	0.003608705	0.005074172
ALUMINUM	308.215	Radial	2241.380	38.41610	38.36581	38.31821	38.56427
ANTIMONY	206.833	Axial	0.4306705	0.0008423745	0.005920531	-0.004549710	0.001156303
BERYLLIUM	313.042	Radial	83.25446	0.004926285	0.004928470	0.005010532	0.004839852
CALCIUM	373.690	Radial	61903.07	616.2159	617.3829	615.4227	615.8422
CERIUM	535.353	Radial	30.23655	0.1236145	0.1059880	0.1330732	0.1317822
COPPER	324.754	Axial	288.1650	0.06660907	0.06674341	0.06668807	0.06639572
IRON	271.441	Radial	2255.533	107.5082	108.3511	107.1203	107.0532
LANTHANUM	333.749	Radial	33.92839	0.07080589	0.07530343	0.06950803	0.06760622
MAGNESIUM	279.079	Radial	2283.122	26.35744	26.39523	26.34290	26.33420
MANGANESE	257.610	Axial	77691.81	3.389542	3.339597	3.379128	3.449901
MOLYBDENUM	202.030	Axial	3.979890	0.004756414	0.003831834	0.005496784	0.004940624
NICKEL	231.604	Axial	92.41252	0.1021993	0.1003391	0.1041577	0.1021012
PHOSPHORUS	177.495	Axial	543.0801	2.729852	2.666352	2.749046	2.774158
POTASSIUM	766.490	Radial	641.9343	6.809361	6.869399	6.788893	6.769790
SILICON	251.611	Axial	14301.31	13.37959	13.27583	13.57089	13.29204
SODIUM	589.592	Radial	416.4208	1.120024	1.130808	1.117190	1.112074
STRONTIUM	421.552	Radial	14320.51	1.341472	1.320030	1.342292	1.362093
SULFUR	182.034	Axial	106.1678	1.923733	1.876897	1.940270	1.954033
THALLIUM	190.856	Axial	-1.32788	-0.003207199	-0.0008505638	-0.006842936	-0.001928097
TIN	189.989	Axial	-0.4505028	0.0002613875	0.0003615224	0.0004263349	-0.000003694619
TITANIUM	334.941	Radial	309.1033	0.1834916	0.1795677	0.1859074	0.1849997
VANADIUM	292.402	Radial	77.26922	0.1274791	0.1260594	0.1299051	0.1264729
ZINC	206.200	Axial	617.6512	0.2459256	0.2439084	0.2439716	0.2498966

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-08 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:51 Sequence: 165

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6678.465	6643.549	6638.486	6753.359
YTTRIUM	360.073	Axial	59784.02	59755.92	60036.10	59560.06
YTTRIUM	360.073	Radial	4824.084	4845.314	4841.340	4785.598
INDIUM	230.606	Axial	1123.700	1117.283	1121.396	1132.420

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	17.21769	0.07862641	0.08105224	0.07953953	0.07528745
BARIUM	233.527	Axial	83784.12	13.40442	13.43976	13.55428	13.21922
BORON	249.678	Radial	491.0156	2.321832	2.325135	2.309466	2.330896
CADMIUM	228.802	Axial	19.45805	0.004656223	0.004113608	0.005174432	0.004680629
CHROMIUM	267.716	Axial	609.3184	0.2553818	0.2525788	0.2569075	0.2566591
COBALT	228.616	Axial	105.2851	0.1240171	0.1236879	0.1253203	0.1230430
LEAD	220.353	Axial	47.12223	0.1235535	0.1247889	0.1255735	0.1202982
LITHIUM	670.784	Radial	152.8253	0.1510399	0.1513471	0.1541565	0.1476161
SELENIUM	196.090	Axial	-1.03643	-0.01180239	-0.02871580	-0.001597886	-0.005093472
SILVER	328.068	Axial	-3.36924	0.003636544	0.005296809	0.005021548	0.0005912737
ALUMINUM	308.215	Radial	16659.90	286.7516	286.5311	285.9986	287.7252
ANTIMONY	206.833	Axial	-4.62926	-0.03434929	-0.02940607	-0.03873832	-0.03490347
BERYLLIUM	313.042	Radial	212.5168	0.01293599	0.01293933	0.01284964	0.01301901
CALCIUM	373.690	Radial	107382.7	1075.317	1074.544	1073.827	1077.580
CERIUM	535.353	Radial	51.51165	0.3648591	0.3511445	0.3683968	0.3750359
COPPER	324.754	Axial	2547.906	0.6044787	0.6040223	0.6084129	0.6010007
IRON	271.441	Radial	2558.722	122.6904	122.3469	122.6258	123.0983
LANTHANUM	333.749	Radial	51.00294	0.1028909	0.1010777	0.1035062	0.1040888
MAGNESIUM	279.079	Radial	7807.186	90.58883	90.49156	90.45159	90.82335
MANGANESE	257.610	Axial	14412.55	0.6462861	0.6492875	0.6553463	0.6342245
MOLYBDENUM	202.030	Axial	33.55002	0.04730778	0.04780545	0.04718167	0.04693623
NICKEL	231.604	Axial	155.2395	0.1908297	0.1928749	0.1880861	0.1915282
PHOSPHORUS	177.495	Axial	3000.790	15.51925	15.46175	15.68507	15.41092
POTASSIUM	766.490	Radial	995.3803	10.49953	10.44516	10.46059	10.59285
SILICON	251.611	Axial	119089.8	118.3638	116.1758	117.9006	121.0150
SODIUM	818.326	Radial	252.6916	27.49135	27.77253	27.29207	27.40945
STRONTIUM	421.552	Radial	98097.82	9.248138	9.333189	9.189377	9.221848
SULFUR	182.034	Axial	10577.67	205.0431	202.2239	206.5733	206.3319
THALLIUM	190.856	Axial	-0.2337886	0.002561933	0.007996873	0.002006861	-0.002317936
TIN	189.989	Axial	5.285396	0.01631882	0.01376430	0.01654607	0.01864608
TITANIUM	334.941	Radial	35064.52	20.74374	20.69436	20.76888	20.76798
VANADIUM	292.402	Radial	536.1404	0.8743897	0.8702354	0.8708814	0.8820522
ZINC	206.200	Axial	1267.648	0.5200932	0.5347930	0.5215375	0.5039491

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-09 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:53 Sequence: 166

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6845.664	6801.494	6862.788	6872.711
YTTRIUM	360.073	Axial	64995.69	65012.54	65030.10	64944.43
YTTRIUM	360.073	Radial	4834.385	4837.640	4851.836	4813.678
INDIUM	230.606	Axial	1358.666	1357.230	1352.729	1366.039

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	10.35146	0.04386924	0.04361150	0.05028702	0.03770921
BARIUM	233.527	Axial	3945.436	0.6170611	0.6208799	0.6134393	0.6168640
BORON	249.678	Radial	0.3562544	0.002419391	0.001986076	0.0005063819	0.004765715
CADMIUM	228.802	Axial	22.72364	0.005880761	0.005229156	0.005708547	0.006704581
CHROMIUM	267.716	Axial	108.1212	0.04735407	0.04757496	0.04680991	0.04767734
COBALT	228.616	Axial	77.61874	0.07795817	0.07762708	0.07965663	0.07659081
LEAD	220.353	Axial	68.44716	0.1484171	0.1471003	0.1489761	0.1491749
LITHIUM	670.784	Radial	16.47556	0.02238475	0.02212165	0.02621048	0.01882211
SELENIUM	196.090	Axial	-0.4972504	-0.005877412	-0.01381952	-0.006015257	0.002202541
SILVER	328.068	Axial	-7.82064	0.002624421	0.003798283	0.002708479	0.001366502
ALUMINUM	308.215	Radial	1477.958	25.45506	25.43514	25.39855	25.53150
ANTIMONY	206.833	Axial	1.419170	0.007551278	0.006254426	0.002555247	0.01384416
BERYLLIUM	313.042	Radial	78.58379	0.004657951	0.004581779	0.004701454	0.004690619
CALCIUM	317.933	Radial	2458.445	12.19440	12.24565	11.91919	12.41835
CERIUM	535.353	Radial	25.99826	0.07725626	0.09417273	0.1043611	0.03323495
COPPER	324.754	Axial	663.1780	0.1466045	0.1451951	0.1478791	0.1467394
IRON	271.441	Radial	2141.690	102.4732	101.9828	102.6763	102.7604
LANTHANUM	333.749	Radial	20.65312	0.04643917	0.04755167	0.04789102	0.04387483
MAGNESIUM	279.079	Radial	295.1894	3.449539	3.405300	3.470072	3.473244
MANGANESE	257.610	Axial	99964.70	4.369054	4.377249	4.363526	4.366387
MOLYBDENUM	202.030	Axial	16.30095	0.02199994	0.02109358	0.02251792	0.02238831
NICKEL	231.604	Axial	98.16160	0.09917014	0.1002064	0.09742799	0.09987606
PHOSPHORUS	177.495	Axial	571.1486	2.876639	2.906479	2.844793	2.878646
POTASSIUM	766.490	Radial	247.3440	2.767904	2.739126	2.782127	2.782460
SILICON	251.611	Axial	7525.887	6.870685	6.851876	6.854010	6.906168
SODIUM	589.592	Radial	195.5701	0.5363981	0.5257177	0.5540591	0.5294176
STRONTIUM	421.552	Radial	1110.894	0.1038526	0.1038779	0.1021543	0.1055256
SULFUR	182.034	Axial	623.3647	11.71253	11.75894	11.72155	11.65709
THALLIUM	190.856	Axial	-2.34935	-0.007630046	-0.003325119	-0.01058512	-0.008979897
TIN	189.989	Axial	0.1922615	0.001855180	0.0001698851	0.001224066	0.004171588
TITANIUM	334.941	Radial	347.8490	0.2070569	0.2064395	0.2072815	0.2074497
VANADIUM	292.402	Radial	67.07298	0.1114050	0.1127491	0.1119971	0.1094688
ZINC	206.200	Axial	2180.783	0.8737950	0.8810069	0.8616271	0.8787511

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838014-02 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:55 Sequence: 167

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6978.067	7005.805	6889.807	7038.588
YTTRIUM	360.073	Axial	64793.46	64904.59	64333.97	65141.83
YTTRIUM	360.073	Radial	4876.886	4849.091	4877.386	4904.180
INDIUM	230.606	Axial	1279.999	1274.646	1274.952	1290.399

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.913242	0.02225116	0.02098316	0.02924013	0.01653020
BARIUM	233.527	Axial	7273.629	1.114883	1.124237	1.112699	1.107713
BORON	249.678	Radial	-0.1482945	0.00001580589	-0.009668997	0.006836150	0.002880265
CADMIUM	228.802	Axial	11.67660	0.0009091184	0.0002037324	0.001329248	0.001194375
CHROMIUM	267.716	Axial	118.2226	0.05052205	0.05031250	0.05099688	0.05025678
COBALT	228.616	Axial	77.47323	0.08223558	0.08371598	0.08140344	0.08158732
LEAD	220.353	Axial	72.11915	0.1659783	0.1644458	0.1639573	0.1695319
LITHIUM	670.784	Radial	21.59200	0.02704100	0.03034439	0.02431084	0.02646776
SELENIUM	196.090	Axial	0.01498613	-0.0004720461	-0.005025546	0.002830370	0.0007790378
SILVER	328.068	Axial	-2.38324	0.003953638	0.002464676	0.004474197	0.004922042
ALUMINUM	308.215	Radial	2093.194	35.70628	35.97956	35.51824	35.62104
ANTIMONY	206.833	Axial	1.575776	0.008446418	0.003119382	0.01338922	0.008830656
BERYLLIUM	313.042	Radial	81.14443	0.004772593	0.004989727	0.004591231	0.004736820
CALCIUM	373.690	Radial	41991.58	415.9677	418.6153	413.9978	415.2900
CERIUM	535.353	Radial	31.25710	0.1334261	0.1572392	0.1550954	0.08794377
COPPER	324.754	Axial	441.5937	0.09874996	0.09822892	0.09967619	0.09834478
IRON	271.441	Radial	1770.400	83.97036	84.73572	83.16862	84.00675
LANTHANUM	333.749	Radial	41.26930	0.08397995	0.08444985	0.08254760	0.08494240
MAGNESIUM	279.079	Radial	2389.181	27.44510	27.60382	27.26534	27.46613
MANGANESE	257.610	Axial	103996.4	4.459120	4.478509	4.474275	4.424578
MOLYBDENUM	202.030	Axial	3.599360	0.004137164	0.004254071	0.003670642	0.004486781
NICKEL	231.604	Axial	82.76224	0.08862118	0.08972851	0.08857185	0.08756318
PHOSPHORUS	177.495	Axial	439.8193	2.171549	2.162068	2.168304	2.184275
POTASSIUM	766.490	Radial	420.5064	4.514861	4.556651	4.484328	4.503604
SILICON	251.611	Axial	13229.50	12.12263	12.24324	12.00192	12.12272
SODIUM	589.592	Radial	265.1531	0.7155145	0.7314629	0.7012636	0.7138171
STRONTIUM	421.552	Radial	7759.283	0.7229995	0.7259679	0.7281074	0.7149231
SULFUR	182.034	Axial	209.0127	3.798231	3.784733	3.814741	3.795218
THALLIUM	190.856	Axial	-2.29995	-0.008095053	-0.01084196	-0.008499337	-0.004943861
TIN	189.989	Axial	1.422824	0.004941482	0.006285147	0.004561924	0.003977374
TITANIUM	334.941	Radial	376.1039	0.2218048	0.2240872	0.2197701	0.2215571
VANADIUM	292.402	Radial	69.09981	0.1137223	0.1148786	0.1123873	0.1139009
ZINC	206.200	Axial	3280.500	1.290226	1.281076	1.297072	1.292530

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 13:56 Sequence: 168 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6511.929	6425.199	6512.623	6597.966
YTTRIUM	360.073	Axial	61644.99	61074.71	61369.94	62490.33
YTTRIUM	360.073	Radial	4653.847	4670.058	4620.168	4671.314
INDIUM	230.606	Axial	1288.289	1274.935	1279.543	1310.389

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	548.7957	9.866237	9.851888	9.873112	9.873711
ANTIMONY	206.833	Axial	70.40751	0.5011943	0.5089139	0.5022404	0.4924286
ARSENIC	189.042	Axial	202.5665	1.008397	1.015743	0.9960031	1.013444
BARIUM	233.527	Axial	3146.477	0.5175546	0.5207022	0.5157532	0.5162085
BERYLLIUM	313.042	Radial	3154.881	0.2016870	0.2026183	0.2021190	0.2003236
BORON	249.678	Radial	205.0476	1.005445	1.013420	1.000210	1.002705
CADMIUM	228.802	Axial	1087.687	0.5007872	0.5059600	0.4981012	0.4983004
CALCIUM	373.690	Radial	5012.667	52.06197	52.28390	52.16234	51.73967
CHROMIUM	267.716	Axial	2370.730	1.007740	1.015459	0.9990858	1.008675
COBALT	228.616	Axial	1000.745	0.9845629	0.9906338	0.9867601	0.9762949
COPPER	324.754	Axial	4472.329	1.027347	1.037249	1.024771	1.020019
IRON	259.940	Radial	2593.640	10.56468	10.61335	10.56159	10.51910
LEAD	220.353	Axial	219.6594	0.5023758	0.5003831	0.5078808	0.4988635
LITHIUM	670.784	Radial	1035.142	1.019111	1.027446	1.019827	1.010062
MAGNESIUM	279.079	Radial	856.6364	10.33235	10.41940	10.30166	10.27600
MANGANESE	257.610	Axial	22303.03	1.025284	1.034052	1.024894	1.016906
MOLYBDENUM	202.030	Axial	173.4687	0.2543099	0.2576610	0.2532286	0.2520402
NICKEL	231.604	Axial	902.9894	0.9735610	0.9762874	0.9744986	0.9698970
PHOSPHORUS	177.495	Axial	190.7675	1.006159	1.014265	1.017453	0.9867591
POTASSIUM	766.490	Radial	4713.088	50.67760	50.58523	50.90823	50.53934
SELENIUM	196.090	Axial	90.52554	0.9960301	0.9992153	1.002825	0.9860506
SILICON	251.611	Axial	2134.393	2.047517	2.050965	2.041085	2.050500
SILVER	328.068	Axial	1994.691	0.5190796	0.5207734	0.5204529	0.5160124
SODIUM	818.326	Radial	425.8031	48.53986	49.19109	48.20603	48.22247
STRONTIUM	421.552	Radial	10469.21	1.022500	1.023061	1.021096	1.023343
SULFUR	182.034	Axial	247.2778	4.837195	4.853594	4.878481	4.779510
THALLIUM	190.856	Axial	198.4302	1.033841	1.040952	1.051400	1.009172
TIN	189.989	Axial	200.3357	0.4946149	0.4926654	0.4986812	0.4924981
TITANIUM	334.941	Radial	1644.748	1.010242	1.023406	1.008919	0.9984019
VANADIUM	292.402	Radial	595.4534	1.006208	1.012365	1.002308	1.003950
ZINC	206.200	Axial	2461.307	1.037104	1.051827	1.030885	1.028601
CERIUM	535.353	Radial	16.98669	-0.01640619	-0.03626017	-0.03134716	0.01838876
LANTHANUM	333.749	Radial	-5.81133	-0.003016329	-0.003771281	-0.004077977	-0.001199728

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 13:58 Sequence: 169

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6516.935	6406.847	6514.092	6629.867
YTTRIUM	360.073	Axial	63106.53	62856.45	63268.88	63194.26
YTTRIUM	360.073	Radial	4697.469	4672.092	4709.186	4711.130
INDIUM	230.606	Axial	1373.372	1362.659	1378.221	1379.236

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-2.76715	0.02867434	0.04078827	0.02362693	0.02160782
ANTIMONY	206.833	Axial	0.8557484	0.004066235	0.009560939	0.001098852	0.001538914
ARSENIC	189.042	Axial	1.492950	0.002101640	0.006585106	0.001834287	-0.002114472
BARIUM	233.527	Axial	-4.95112	0.0005458413	0.0006922183	0.0004482960	0.0004970097
BERYLLIUM	313.042	Radial	2.931415	0.000003716470	0.0001614366	-0.00008628898	-0.00006399820
BORON	249.678	Radial	-0.2561777	-0.0005150835	-0.002039557	-0.003708514	0.004202821
CADMIUM	228.802	Axial	8.435501	-0.0002345511	-0.0001228309	0.0001682320	-0.0007490543
CALCIUM	317.933	Radial	13.34777	0.006924533	0.002077055	0.006989546	0.01170700
CERIUM	535.353	Radial	11.02646	-0.08701639	-0.09120068	-0.1004556	-0.06939287
CHROMIUM	267.716	Axial	-7.67154	0.0005571096	0.0004450881	0.001200601	0.00002563929
COBALT	228.616	Axial	-6.68851	-0.0001386139	0.0009629752	0.001608355	-0.002987172
COPPER	324.754	Axial	-6.70042	0.0009747154	0.0009723473	0.001624226	0.0003275733
IRON	259.940	Radial	2.185892	0.003544689	0.002240509	0.003478275	0.004915283
LANTHANUM	333.749	Radial	-0.5792464	0.007067654	0.006575541	0.004950277	0.009677144
LEAD	220.353	Axial	-0.9767367	-0.002103825	-0.0009041988	-0.004800393	-0.0006068821
LITHIUM	670.784	Radial	-5.88171	0.001193163	0.003347341	0.001295076	-0.001062927
MAGNESIUM	279.079	Radial	-1.71144	0.01259764	0.03048296	0.003027499	0.004282466
MANGANESE	257.610	Axial	-9.99053	0.0001713435	0.0002535311	0.00006193270	0.0001985666
MOLYBDENUM	202.030	Axial	1.566081	0.001514227	0.002290445	0.002054265	0.0001979697
NICKEL	231.604	Axial	2.352611	0.001069192	-0.00002916273	0.002756269	0.0004804694
PHOSPHORUS	177.495	Axial	1.294498	0.0007035379	0.0005798663	-0.0008896103	0.002420358
POTASSIUM	766.490	Radial	-17.0240	0.03825130	0.06743892	0.04790217	-0.0005872002
SELENIUM	196.090	Axial	-0.4402607	-0.005487061	-0.007469188	-0.001923893	-0.007068100
SILICON	251.611	Axial	44.56640	0.03204515	0.03198284	0.03184817	0.03230445
SILVER	328.068	Axial	-18.5321	-0.0001348350	-0.001839529	0.0008613189	0.0005737053
SODIUM	589.592	Radial	-29.3402	-0.06444627	-0.05323855	-0.07099885	-0.06910143
STRONTIUM	421.552	Radial	5.000460	-0.0001817790	0.0001179627	-0.0001486110	-0.0005146888
SULFUR	182.034	Axial	3.877699	-0.004044776	0.004578957	-0.007682629	-0.009030655
THALLIUM	190.856	Axial	-0.1396738	0.003249317	0.002921259	0.004495498	0.002331194
TIN	189.989	Axial	-0.03033890	0.001353560	0.004352909	-0.0008182373	0.0005260093
TITANIUM	334.941	Radial	-1.83378	0.0006156279	0.0005104001	0.0004376354	0.0008988482
VANADIUM	292.402	Radial	-2.34223	-0.001325688	0.001200338	-0.0009603036	-0.004217098
ZINC	206.200	Axial	8.721370	0.002147058	0.002836671	0.001884863	0.001719639

Sample ID: CCVLL Units: mg/l
Analyzed: 03/21/25 15:39 Sequence: 227 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	3728.745	1353.364	2464.286	7368.586
YTTRIUM	360.073	Axial	39456.70	13890.09	24491.41	79988.60
YTTRIUM	360.073	Radial	13335.91	13886.37	13954.14	12167.22
INDIUM	230.606	Axial	976.9508	360.8201	610.7911	1959.241

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.34389	0.04538487	0.03110345	0.03431951	0.07073163
ANTIMONY	206.833	Axial	-0.1356634	-0.004268520	-0.004024663	-0.005673553	-0.003107343
ARSENIC	189.042	Axial	0.7218146	0.006642061	0.02749843	-0.005829955	-0.001742293
BARIUM	233.527	Axial	-5.10856	-0.0007569466	-0.001966635	-0.0007551571	0.0004509521
BERYLLIUM	313.042	Radial	1.350395	-0.0001458194	-0.0002264750	-0.0002151543	0.000004170997
BORON	249.678	Radial	2.319895	0.005232812	-0.002027902	0.0002912496	0.01743509
CADMIUM	228.802	Axial	8.101982	0.006274181	0.01575312	0.003445494	-0.0003760743
CALCIUM	317.933	Radial	56.01071	0.04219186	0.002970825	0.02362221	0.09998255
CHROMIUM	267.716	Axial	-7.38531	-0.003689649	-0.007543997	-0.003589292	0.00006434230
COBALT	228.616	Axial	-6.47246	-0.007394036	-0.01595362	-0.008201769	0.001973280
COPPER	324.754	Axial	-14.6993	-0.006628074	-0.01587108	-0.003810682	-0.0002024620
IRON	259.940	Radial	7.046410	0.005162552	-0.001691831	0.002386244	0.01479324
LEAD	220.353	Axial	0.3512731	0.004000752	0.008742351	0.004800551	-0.001540647
LITHIUM	670.784	Radial	-4.24881	0.005481448	0.006362072	0.003602583	0.006479689
MAGNESIUM	279.079	Radial	7.003280	0.06463453	0.02942321	0.04667828	0.1178021
MANGANESE	257.610	Axial	-13.5628	-0.001073734	-0.002268757	-0.001011373	0.00005892793
MOLYBDENUM	202.030	Axial	1.481370	0.004960673	0.01184882	0.0009721964	0.002061000
NICKEL	231.604	Axial	1.710447	0.002007192	0.004591627	0.0008594858	0.0005704623
PHOSPHORUS	177.495	Axial	0.9996880	0.006383737	0.01480177	0.003515516	0.0008339257
POTASSIUM	766.490	Radial	-14.4626	0.1682519	0.1289626	0.1265614	0.2492318
SELENIUM	196.090	Axial	0.2955704	0.006247423	-0.004963797	0.02275115	0.0009549185
SILICON	251.611	Axial	12.86845	0.01277936	0.01212682	0.02063533	0.005575936
SILVER	328.068	Axial	-17.9070	-0.007427886	-0.01552733	-0.007911579	0.001155252
SODIUM	589.592	Radial	-3.89778	0.01458921	-0.01728169	-0.009768781	0.07081809
STRONTIUM	421.552	Radial	19.31017	0.00001596756	-0.0003601006	-0.0001632234	0.0005712267
SULFUR	182.034	Axial	6.565147	0.2720116	0.4911758	0.2886865	0.03617260
THALLIUM	190.856	Axial	-0.6517707	-0.001426825	-0.01187402	0.009007422	-0.001413878
TIN	189.989	Axial	-0.3608662	-0.0002237568	-0.003969137	0.003206669	0.00009119772
TITANIUM	334.941	Radial	5.331553	0.002989095	0.001321188	0.001944628	0.005701468
VANADIUM	292.402	Radial	-0.7834071	0.002187845	0.0004487230	0.002289856	0.003824957
ZINC	206.200	Axial	1.074389	-0.0005586064	0.0005657787	-0.001513305	-0.0007282935
CERIUM	535.353	Radial	8.957381	-0.1767847	-0.1879362	-0.1906299	-0.1517880
LANTHANUM	333.749	Radial	-0.3156891	0.007970382	0.008038822	0.007714512	0.008157813

Sample ID: CCVLL Units: mg/l
Analyzed: 03/21/25 15:43 Sequence: 228 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6501.370	6421.091	6468.281	6614.739
YTTRIUM	360.073	Axial	62842.21	61911.67	62400.01	64214.95
YTTRIUM	360.073	Radial	4762.200	4785.570	4807.691	4693.339
INDIUM	230.606	Axial	1344.844	1325.776	1335.416	1373.339

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.239714	0.2210680	0.2153973	0.2377298	0.2100769
ANTIMONY	206.833	Axial	2.100037	0.01285389	0.001803222	0.01555860	0.02119984
ARSENIC	189.042	Axial	3.134650	0.01033627	0.01601855	0.007700219	0.007290026
BARIUM	233.527	Axial	25.10063	0.005483050	0.005821738	0.005335711	0.005291701
BERYLLIUM	313.042	Radial	34.65639	0.001985551	0.001958082	0.001880108	0.002118463
BORON	249.678	Radial	41.72240	0.2005224	0.2010951	0.1998588	0.2006133
CADMIUM	228.802	Axial	13.12384	0.001955071	0.001973499	0.002470387	0.001421327
CALCIUM	317.933	Radial	223.7555	1.070856	1.058676	1.071752	1.082139
CHROMIUM	267.716	Axial	14.22336	0.009837807	0.01140138	0.008347619	0.009764427
COBALT	228.616	Axial	2.033600	0.007897482	0.007789168	0.008193688	0.007709589
COPPER	324.754	Axial	44.02277	0.01237227	0.01216606	0.01284850	0.01210224
IRON	259.940	Radial	28.87448	0.1097064	0.1061257	0.1141278	0.1088658
LEAD	220.353	Axial	2.362891	0.005150626	0.003366898	0.005951427	0.006133553
LITHIUM	670.784	Radial	12.71756	0.01899758	0.01679054	0.02586235	0.01433986
MAGNESIUM	279.079	Radial	87.88157	1.065564	1.042340	1.077958	1.076393
MANGANESE	257.610	Axial	202.9202	0.009966827	0.009885224	0.01008506	0.009930200
MOLYBDENUM	202.030	Axial	4.467404	0.005777753	0.005943838	0.005128508	0.006260914
NICKEL	231.604	Axial	10.12776	0.009172772	0.009407435	0.009754068	0.008356812
PHOSPHORUS	177.495	Axial	20.38180	0.1022028	0.1045519	0.1034728	0.09858377
POTASSIUM	766.490	Radial	78.02686	1.034917	1.071871	1.025370	1.007509
SELENIUM	196.090	Axial	-0.07350830	-0.001430389	0.003952382	-0.005545295	-0.002698253
SILICON	251.611	Axial	221.7295	0.1997839	0.2033640	0.1993136	0.1966740
SILVER	328.068	Axial	7.338866	0.006398924	0.005883596	0.007447718	0.005865459
SODIUM	589.592	Radial	356.2619	0.9785369	0.9934971	0.9620700	0.9800437
STRONTIUM	421.552	Radial	111.7303	0.01000388	0.009914616	0.01013342	0.009963620
SULFUR	182.034	Axial	52.83314	0.9712976	0.9810224	0.9570071	0.9758634
THALLIUM	190.856	Axial	1.690226	0.01232728	0.01163050	0.01265671	0.01269464
TIN	189.989	Axial	20.48142	0.04973523	0.05253569	0.04858258	0.04808742
TITANIUM	334.941	Radial	80.75064	0.05011256	0.05011367	0.05072909	0.04949492
VANADIUM	292.402	Radial	10.07101	0.01916895	0.01398570	0.02310893	0.02041222
ZINC	206.200	Axial	136.9361	0.05634900	0.05676264	0.05739562	0.05488874
CERIUM	535.353	Radial	9.281098	-0.1089273	-0.06733120	-0.1029316	-0.1565192
LANTHANUM	333.749	Radial	-2.22275	0.004013732	0.002093296	0.002933966	0.007013935

Sample ID: CCVLL Units: mg/l
Analyzed: 03/21/25 15:52 Sequence: 229 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6619.985	6630.118	6560.159	6669.679
YTTRIUM	360.073	Axial	64053.04	64062.56	63083.49	65013.08
YTTRIUM	360.073	Radial	4790.708	4827.417	4774.050	4770.657
INDIUM	230.606	Axial	1373.504	1374.408	1354.821	1391.284

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	6.882639	0.1967607	0.2055059	0.1998122	0.1849639
ANTIMONY	206.833	Axial	1.313349	0.007136620	0.006228387	0.006281876	0.008899598
ARSENIC	189.042	Axial	3.628505	0.01241518	0.01318474	0.005935656	0.01812514
BARIUM	233.527	Axial	25.21634	0.005425338	0.005443694	0.005377728	0.005454592
BERYLLIUM	313.042	Radial	33.59588	0.001905635	0.001926399	0.001894708	0.001895798
BORON	249.678	Radial	42.98051	0.2053369	0.2011317	0.2066345	0.2082443
CADMIUM	228.802	Axial	12.49715	0.001559242	0.0009263674	0.002462048	0.001289312
CALCIUM	317.933	Radial	224.7843	1.069250	1.061812	1.072982	1.072955
CHROMIUM	267.716	Axial	17.39132	0.01104435	0.01071710	0.01104710	0.01136885
COBALT	228.616	Axial	3.096448	0.008823406	0.008070046	0.008316797	0.01008338
COPPER	324.754	Axial	47.24768	0.01288792	0.01243278	0.01247334	0.01375764
IRON	259.940	Radial	29.43394	0.1112398	0.1135822	0.1118605	0.1082768
LEAD	220.353	Axial	2.452148	0.005269866	0.005020358	0.007904489	0.002884751
LITHIUM	670.784	Radial	13.29978	0.01950312	0.02364773	0.01752021	0.01734142
MAGNESIUM	279.079	Radial	88.61903	1.067900	1.089083	1.059783	1.054835
MANGANESE	257.610	Axial	203.2159	0.009812527	0.009937181	0.009716542	0.009783859
MOLYBDENUM	202.030	Axial	4.349010	0.005492547	0.006099519	0.005404138	0.004973985
NICKEL	231.604	Axial	10.55025	0.009372704	0.007790113	0.009980457	0.01034754
PHOSPHORUS	177.495	Axial	20.52815	0.1009768	0.1013806	0.09790687	0.1036430
POTASSIUM	766.490	Radial	73.68823	0.9850865	0.9911582	0.9359502	1.028151
SELENIUM	196.090	Axial	0.7670294	0.007672601	0.01439732	0.006766504	0.001853979
SILICON	251.611	Axial	224.0106	0.1979029	0.2003998	0.1972231	0.1960859
SILVER	328.068	Axial	7.631351	0.006428095	0.008300513	0.005054215	0.005929556
SODIUM	589.592	Radial	359.4742	0.9813940	0.9833824	0.9786506	0.9821491
STRONTIUM	421.552	Radial	111.0100	0.009872640	0.009816131	0.01007808	0.009723707
SULFUR	182.034	Axial	53.77219	0.9708338	0.9711266	0.9728893	0.9684854
THALLIUM	190.856	Axial	0.6516377	0.007109566	0.006768853	0.008127741	0.006432104
TIN	189.989	Axial	20.17216	0.04800708	0.04866538	0.04951134	0.04584452
TITANIUM	334.941	Radial	83.14711	0.05125513	0.05170496	0.05179677	0.05026364
VANADIUM	292.402	Radial	11.19230	0.02090484	0.02068682	0.02217943	0.01984826
ZINC	206.200	Axial	139.9546	0.05655446	0.05664590	0.05679570	0.05622178
CERIUM	535.353	Radial	9.795943	-0.1034767	-0.08623175	-0.1148183	-0.1093800
LANTHANUM	333.749	Radial	-0.8667922	0.006555177	0.006126065	0.005017412	0.008522055

Sample ID: ICSA Units: mg/l
Analyzed: 03/21/25 15:58 Sequence: 230 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6263.585	6338.556	6230.390	6221.807
YTTRIUM	360.073	Axial	58070.77	58834.76	57900.88	57476.67
YTTRIUM	360.073	Radial	4626.123	4689.033	4592.504	4596.832
INDIUM	230.606	Axial	1149.232	1151.966	1149.952	1145.777

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28462.97	510.7923	512.5038	510.0819	509.7912
ANTIMONY	206.833	Axial	1.039059	0.005589612	0.01250559	0.0008498014	0.003413444
ARSENIC	189.042	Axial	3.126807	0.01085256	0.01108085	0.01392018	0.007556644
BARIUM	233.527	Axial	5.064042	0.002219882	0.002228717	0.002465814	0.001965114
BERYLLIUM	313.042	Radial	13.11778	0.0006624589	0.0005711303	0.0006775514	0.0007386951
BORON	249.678	Radial	-7.42404	-0.03585051	-0.03771394	-0.03701354	-0.03282406
CADMIUM	228.802	Axial	5.112589	-0.001678091	-0.002602814	-0.001161290	-0.001270168
CALCIUM	373.690	Radial	49449.92	516.3820	517.1544	516.1507	515.8408
CERIUM	535.353	Radial	13.28826	-0.05867328	-0.03625909	-0.06374383	-0.07601693
CHROMIUM	267.716	Axial	-16.5022	-0.003467799	-0.002892243	-0.003891301	-0.003619852
COBALT	228.616	Axial	-5.71927	-0.0002812261	0.002042771	-0.0007227482	-0.002163700
COPPER	324.754	Axial	44.15034	0.01321457	0.01314940	0.01331130	0.01318301
IRON	271.441	Radial	4070.312	203.5232	203.4157	203.5324	203.6214
LANTHANUM	333.749	Radial	-2.46675	0.003394770	0.003865216	0.005637251	0.0006818437
LEAD	220.353	Axial	1.029349	0.002625142	0.003756167	0.001994467	0.002124792
LITHIUM	670.784	Radial	-5.89672	0.001072101	0.003076957	0.003913093	-0.003773747
MAGNESIUM	279.079	Radial	43618.26	527.6024	528.3163	526.8279	527.6630
MANGANESE	257.610	Axial	-168.301	-0.007410586	-0.007062609	-0.007538031	-0.007631117
MOLYBDENUM	202.030	Axial	2.407692	0.002875937	0.004068170	-0.0002849330	0.004844574
NICKEL	231.604	Axial	2.197476	0.001347976	0.002280565	0.001730773	0.00003258926
PHOSPHORUS	177.495	Axial	1.582071	0.002587286	0.001085997	0.003339925	0.003335936
POTASSIUM	766.490	Radial	-21.7256	-0.01520476	-0.02419299	-0.05482934	0.03340805
SELENIUM	196.090	Axial	-1.21960	-0.01461459	-0.01263661	-0.01301942	-0.01818772
SILICON	251.611	Axial	13.29086	0.003685884	0.003077558	0.003464148	0.004515947
SILVER	328.068	Axial	2.249950	0.005154903	0.005086450	0.005105405	0.005272855
SODIUM	589.592	Radial	-30.2098	-0.06810630	-0.07239234	-0.06890724	-0.06301933
STRONTIUM	421.552	Radial	68.04095	0.006022719	0.006047166	0.006213968	0.005807024
SULFUR	182.034	Axial	3.509232	-0.008632139	-0.006827698	-0.01412550	-0.004943220
THALLIUM	190.856	Axial	-1.74094	-0.006196374	-0.005745669	-0.007482211	-0.005361241
TIN	189.989	Axial	-0.5734053	-0.0001717014	-0.001087828	0.002318169	-0.001745445
TITANIUM	334.941	Radial	-9.74248	-0.004286111	-0.003328753	-0.004424235	-0.005105345
VANADIUM	292.402	Radial	1.931749	0.005867904	0.003866736	0.007944108	0.005792867
ZINC	206.200	Axial	29.29518	0.01131270	0.01161865	0.01153466	0.01078478

Sample ID: ICSAB Units: mg/l
Analyzed: 03/21/25 16:00 Sequence: 231 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6256.513	6200.909	6350.557	6218.074
YTTRIUM	360.073	Axial	58253.42	58406.59	58469.54	57884.14
YTTRIUM	360.073	Radial	4643.258	4649.304	4636.218	4644.251
INDIUM	230.606	Axial	1147.416	1139.175	1154.450	1148.622

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28522.96	509.9926	509.1749	511.2864	509.5164
ANTIMONY	206.833	Axial	65.57378	0.4857457	0.4967233	0.4816719	0.4788420
ARSENIC	189.042	Axial	98.28898	0.5065857	0.5073921	0.5062049	0.5061601
BARIUM	233.527	Axial	2930.050	0.5016722	0.5042393	0.4992945	0.5014827
BERYLLIUM	313.042	Radial	7891.885	0.5059382	0.5068191	0.5064899	0.5045057
BORON	249.678	Radial	199.0439	0.9782687	0.9828843	0.9793907	0.9725310
CADMIUM	228.802	Axial	2028.873	0.9761794	0.9816988	0.9655857	0.9812536
CALCIUM	373.690	Radial	49322.10	513.1524	513.2001	513.9677	512.2893
CERIUM	535.353	Radial	13.19893	-0.06015679	-0.04350693	-0.07699878	-0.05996465
CHROMIUM	267.716	Axial	1076.265	0.4781931	0.4790495	0.4738008	0.4817291
COBALT	228.616	Axial	458.0580	0.5088640	0.5127305	0.5094744	0.5043872
COPPER	324.754	Axial	2131.598	0.5193552	0.5185772	0.5207108	0.5187774
IRON	271.441	Radial	4062.766	202.3950	202.9702	201.9803	202.2344
LANTHANUM	333.749	Radial	-5.64659	-0.002720977	-0.003706744	-0.004931472	0.0004752857
LEAD	220.353	Axial	381.0528	0.9784631	0.9832687	0.9800589	0.9720617
LITHIUM	670.784	Radial	-3.44470	0.003510230	0.001484433	0.004118003	0.004928252
MAGNESIUM	279.079	Radial	43523.66	524.5210	525.6950	526.1479	521.7201
MANGANESE	257.610	Axial	10434.42	0.4995550	0.5024941	0.4985798	0.4975910
MOLYBDENUM	202.030	Axial	312.0399	0.4768171	0.4782659	0.4724227	0.4797628
NICKEL	231.604	Axial	829.1915	1.003753	1.002324	1.007041	1.001895
PHOSPHORUS	177.495	Axial	1.860509	0.004151974	0.008659107	0.001032533	0.002764283
POTASSIUM	766.490	Radial	-26.8323	-0.06919999	-0.06333285	-0.09110906	-0.05315807
SELENIUM	196.090	Axial	42.98445	0.4918897	0.4930427	0.4937018	0.4889245
SILICON	251.611	Axial	919.8088	0.9283568	0.9218242	0.9327935	0.9304528
SILVER	328.068	Axial	3439.980	0.9435174	0.9327297	0.9551681	0.9426543
SODIUM	589.592	Radial	-19.0619	-0.03694450	-0.03717246	-0.05930546	-0.01435560
STRONTIUM	421.552	Radial	69.69590	0.006160362	0.005965836	0.006240105	0.006275146
SULFUR	182.034	Axial	3.633156	-0.005977017	-0.01194375	-0.006623958	0.0006366521
THALLIUM	190.856	Axial	78.94126	0.4638389	0.4584681	0.4741664	0.4588821
TIN	189.989	Axial	175.6990	0.4870718	0.4904970	0.4820672	0.4886512
TITANIUM	334.941	Radial	797.3540	0.4917640	0.4908768	0.4958436	0.4885716
VANADIUM	292.402	Radial	290.2849	0.4929720	0.4905097	0.4906095	0.4977967
ZINC	206.200	Axial	2317.888	1.016482	1.026178	1.008042	1.015225

3051 MW ICP SS Metals Prep Benchsheet

Workgroup: WG2473543

Prep Start Date/Time: 03/21/25 07:40-07:41 **Prep End Date/Time:** 03/21/25 11:04 **Balance ID:** DECBAL03 **Analyst:** DRD4318 **Carousel ID:** 6
Microwave ID: MJ9747 **Dig. Start Date/Time:** 03/21/25 09:35:38 **Pipette ID:** F13412531 **SOP:** ENV-SOP-MTJL-0217 **Method:** 3051
Digestion Chips Lot #: 24K21124 **Pipette Tip Lot#:** 328C6-328C

Nitric Acid: 25C21221 Amt. Used: 4.50 mL Exp. Date:09/21/25 **Hydrochloric Acid:** 25C11505 Amt. Used: 1.50 mL Exp. Date:09/11/25
High Spike: 25B24106 Amt. Used: 0.50 mL Exp. Date:08/24/25 **High Spike 2:** 25B24107 Amt. Used: 0.50 mL Exp. Date:08/24/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Initial Vessel Mass (g)	Final Vessel Mass (g)	Sample Description	Review Analyst	Review Date
BLANK	0.49	50	154.73	154.68	pellets	DRD4318	03/21/25 11:04:23
LCS	0.48	50	155.85	155.79	pellets	DRD4318	03/21/25 11:04:23
MS(L1838002-01)	0.52	50	152.20	152.20	soil	DRD4318	03/21/25 11:04:23
MS(L1838014-01)	0.51	50	157.56	157.47	soil	DRD4318	03/21/25 11:04:23
MSD(L1838002-01)	0.53	50	155.92	155.87	soil	DRD4318	03/21/25 11:04:23
MSD(L1838014-01)	0.50	50	157.03	156.92	soil	DRD4318	03/21/25 11:04:23
1. L1838002-01	0.53	50	154.75	154.71	soil	DRD4318	03/21/25 11:04:23
2. L1838002-02	0.48	50	154.20	154.17	soil	DRD4318	03/21/25 11:04:23
3. L1838002-03	0.53	50	148.95	148.85	soil	DRD4318	03/21/25 11:04:23
4. L1838002-04	0.51	50	155.13	155.07	soil	DRD4318	03/21/25 11:04:23
5. L1838002-05	0.52	50	151.01	150.95	soil	DRD4318	03/21/25 11:04:23
6. L1838002-06	0.49	50	150.72	150.60	soil	DRD4318	03/21/25 11:04:23
7. L1838002-07	0.50	50	151.37	151.29	soil	DRD4318	03/21/25 11:04:23
8. L1838002-08	0.51	50	156.55	156.46	soil	DRD4318	03/21/25 11:04:23
9. L1838002-09	0.48	50	156.27	156.15	soil	DRD4318	03/21/25 11:04:23
10. L1838014-01	0.55	50	156.15	156.02	soil	DRD4318	03/21/25 11:04:23
11. L1838014-02	0.50	50	152.30	152.13	soil	DRD4318	03/21/25 11:04:23
12. L1838014-03	0.54	50	155.85	155.80	soil	DRD4318	03/21/25 11:04:23
13. L1838014-04	0.51	50	151.72	151.69	soil	DRD4318	03/21/25 11:04:23
14. L1838014-05	0.49	50	152.89	152.84	soil	DRD4318	03/21/25 11:04:23
15. L1838014-06	0.50	50	158.13	158.04	soil	DRD4318	03/21/25 11:04:23
16. L1838014-07	0.51	50	152.33	152.32	soil	DRD4318	03/21/25 11:04:23
17. L1838014-08	0.47	50	151.10	151.04	soil	DRD4318	03/21/25 11:04:23
18. L1838014-09	0.48	50	153.25	153.23	soil	DRD4318	03/21/25 11:04:23
19. L1838014-10	0.50	50	157.86	157.78	soil	DRD4318	03/21/25 11:04:23
20. L1838014-11	0.55	50	156.64	156.56	soil	DRD4318	03/21/25 11:04:23

Comments:
PEER REVIEW- AXP4121 3/21

Reviewed By:DRD4318 on 03/21/25 11:04:23

7199 Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-I-SO

Lab Sample ID:	L1838002-01	**SDG:**	L1838002
Client Sample ID:	CLINTON-SCHOOL-DITCH-I-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	12.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 09:44
Dilution Factor:	5	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.45 g
Total Solids (%):	67.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Hexavalent Chromium	18540-29-9	U	J3 J6	2.83	7.44

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838002-02	**SDG:**	L1838002
Client Sample ID:	18-901-I-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	17.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 10:32
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.52 g
Total Solids (%):	68.9	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.550	1.45

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
K-18-I-SO

Lab Sample ID:	L1838002-03	**SDG:**	L1838002
Client Sample ID:	K-18-I-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	18.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 10:41
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.46 g
Total Solids (%):	65.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.579	1.53

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838002-04	**SDG:**	L1838002
Client Sample ID:	P-230-I-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	19.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 10:51
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.49 g
Total Solids (%):	65.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.579	1.53

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838002-05	**SDG:**	L1838002
Client Sample ID:	P-350-I-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	22.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 11:20
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.54 g
Total Solids (%):	68.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.556	1.47

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838002-06	**SDG:**	L1838002
Client Sample ID:	NHR-I-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	23.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 11:29
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.47 g
Total Solids (%):	83.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.456	1.20

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DUP-SO-031125

Lab Sample ID:	L1838002-07	**SDG:**	L1838002
Client Sample ID:	DUP-SO-031125	**Collected Date/Time:**	03/11/25 17:00
Lab File ID:	24.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 11:39
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.53 g
Total Solids (%):	69.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.543	1.43

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
FLYASH-I-SO

Lab Sample ID:	L1838002-08	**SDG:**	L1838002
Client Sample ID:	FLYASH-I-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	25.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 11:49
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.47 g
Total Solids (%):	58.9	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	5.10		0.643	1.70

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SO

Lab Sample ID:	L1838002-09	**SDG:**	L1838002
Client Sample ID:	MONTROSE-LAKE-I-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	26.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 11:58
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.52 g
Total Solids (%):	71.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.532	1.40

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189399-1	**SDG:**	L1838002
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	10.0000.txt	**Received Date/Time:**	
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:38
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 09:24
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	2.50 g
Total Solids (%):		**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189399-2	**SDG:**	L1838002
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	11.0000.txt	**Received Date/Time:**	_____
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:38
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 09:34
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.52 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	9.52		0.379	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189399-8	**SDG:**	L1838002
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	27.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 12:08
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.51 g
Total Solids (%):	71.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	U		0.532	1.40

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189399-3	**SDG:**	L1838002
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	13.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 09:53
Dilution Factor:	5	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.53 g
Total Solids (%):	67.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Hexavalent Chromium	18540-29-9	3.49	J J6	2.83	7.44

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189399-6	**SDG:**	L1838002
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	15.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 10:12
Dilution Factor:	50	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.54 g
Total Solids (%):	67.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	514	J6	28.3	74.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189399-4	**SDG:**	L1838002
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	14.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 10:03
Dilution Factor:	5	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.53 g
Total Solids (%):	67.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Hexavalent Chromium	18540-29-9	4.32	J J3 J6	2.83	7.44

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189399-7	**SDG:**	L1838002
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	16.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC30	**Preparation Date/Time:**	03/20/25 15:40
Analytical Batch:	WG2473202	**Analysis Date/Time:**	03/21/25 10:22
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	7199	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.45 g
Total Solids (%):	67.2	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Hexavalent Chromium	18540-29-9	30.4		0.564	1.49

CALIBRATION VERIFICATION

SDG:	L1838002	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	032125 SS
Concentration Units:	mg/l		

		ICV				CCV				CCV			
Sample ID:		METALSIC300321250846				METALSIC300321251101				METALSIC300321251218			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
HEXAVALENT CHROMIUM	0.50	0.5071	101		0.50	0.5033	101		0.50	0.5066	101	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1838002	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031425 SS

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	09.0000.txt	
Analyte	mg/l	
HEXAVALENT CHROMIUM	0.0000	

SDG:	L1838002	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031725 SS

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	09.0000.txt	
Analyte	mg/l	
HEXAVALENT CHROMIUM	0.0000	

SDG:	L1838002	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031825 SS

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	09.0000.txt	
Analyte	mg/l	
HEXAVALENT CHROMIUM	0.0000	

SDG:	L1838002	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	031925 SS

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	09.0000.txt	
Analyte	mg/l	
HEXAVALENT CHROMIUM	0.0000	

SDG:	L1838002	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	032125 SS

Sample ID:	**ICB Result**	**ICB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	09.0000.txt		10.0000.txt		21.0000.txt		29.0000.txt	
Analyte	mg/l		mg/kg		mg/l		mg/l	
HEXAVALENT CHROMIUM	0.0000		U		0.0000		0.0000	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838002-01,02,03,04,05,06,07,08,09

SAMPLE NO.:
R4189399-3
R4189399-4

MS Sample / File ID:	R4189399-3 / 13.0000.txt	**SDG:**	L1838002
MSD Sample / File ID:	R4189399-4 / 14.0000.txt	**Analytical Batch:**	WG2473202
OS Sample / File ID:	L1838002-01 / 12.0000.txt	**Matrix:**	Solid
Instrument ID:	METALSIC30		
Analytical Method:	7199		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	29.8	U	3.49	4.32	11.7*	14.5*	5	75.0 - 125	21.4*	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838002-01,02,03,04,05,06,07,08,09

SAMPLE NO.: R4189399-6

MS Sample / File ID:	R4189399-6 / 15.0000.txt	**SDG:**	L1838002
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2473202
OS Sample / File ID:	L1838002-01 / 12.0000.txt	**Matrix:**	Solid
Instrument ID:	METALSIC30		
Analytical Method:	7199		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	942	U	514		54.6*		50	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1838002-01,02,03,04,05,06,07,08,09

PS Sample / File ID:	R4189399-7 / 16.0000.txt	**SDG:**	L1838002
OS Sample / File ID:	L1838002-01 / 30.0000.txt	**Analytical Batch:**	WG2473202
Instrument ID:	METALSIC30	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	29.8	U	30.4		102		1	85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4189399-8 / 27.0000.txt	**SDG:**	L1838002
OS Sample / File ID:	L1838002-09 / 26.0000.txt	**Analytical Batch:**	WG2473202
Instrument ID:	METALSIC30	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Hexavalent Chromium	U	U	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1838002-01,02,03,04,05,06,07,08,09

SAMPLE NO.: R4189399-2

LCS Sample / File ID:	R4189399-2 / 11.0000.txt	**SDG:**	L1838002
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2473202
Instrument ID:	METALSIC30	**Dilution Factor:**	1
Analytical Method:	7199	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Hexavalent Chromium	10.0	9.52		95.2		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1838002-01,02,03,04,05,06,07,08,09
Matrix: Solid
Analytical Method: 7199
Prep Method: 3060A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Hexavalent Chromium	18540-29-9			0.3790	1

ANALYSIS LOG

SDG:	L1838002	**Analytical Method:**	7199
Instrument ID:	METALSIC30	**Calibration Start Date:**	_____
Analytical Run:	031425 SS	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	CAL 1	01.0000.TXT	03/13/25 19:07		
CAL	CAL 2	02.0000.TXT	03/13/25 19:16		
CAL	CAL 3	03.0000.TXT	03/13/25 19:26		
CAL	CAL 4	04.0000.TXT	03/13/25 19:35		
CAL	CAL 5	05.0000.TXT	03/13/25 19:45		
CAL	CAL 6	06.0000.TXT	03/13/25 19:55		
CAL	CAL 7	07.0000.TXT	03/13/25 20:04		
ICB	METALSIC300313252024	09.0000.txt	03/13/25 20:24		

ANALYSIS LOG

SDG:	L1838002	**Analytical Method:**	7199
Instrument ID:	METALSIC30	**Calibration Start Date:**	_____
Analytical Run:	031725 SS	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICB	METALSIC300317250012	09.0000.txt	03/17/25 00:12		

ANALYSIS LOG

SDG:	L1838002	**Analytical Method:**	7199
Instrument ID:	METALSIC30	**Calibration Start Date:**	_____
Analytical Run:	031825 SS	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICB	METALSIC300318252236	09.0000.txt	03/18/25 22:36		

ANALYSIS LOG

SDG:	L1838002	**Analytical Method:**	7199
Instrument ID:	METALSIC30	**Calibration Start Date:**	_____
Analytical Run:	031925 SS	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICB	METALSIC300319251718	09.0000.txt	03/19/25 17:18		

ANALYSIS LOG

SDG:	L1838002	**Analytical Method:**	7199
Instrument ID:	METALSIC30	**Calibration Start Date:**	03/13/25 19:07
Analytical Run:	032125 SS	**Calibration End Date:**	03/13/25 20:04

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	METALSIC300321250846	08.0000.txt	03/21/25 08:46		
ICB	METALSIC300321250855	09.0000.txt	03/21/25 08:55		
BLANK	R4189399-1	10.0000.txt	03/21/25 09:24	1	WG2473202
LCS	R4189399-2	11.0000.txt	03/21/25 09:34	1	WG2473202
CLINTON-SCHOOL-DITCH-I-SO	L1838002-01	12.0000.txt	03/21/25 09:44	5	WG2473202
MS	R4189399-3	13.0000.txt	03/21/25 09:53	5	WG2473202
MSD	R4189399-4	14.0000.txt	03/21/25 10:03	5	WG2473202
MS	R4189399-6	15.0000.txt	03/21/25 10:12	50	WG2473202
PS	R4189399-7	16.0000.txt	03/21/25 10:22	1	WG2473202
18-901-I-SO	L1838002-02	17.0000.txt	03/21/25 10:32	1	WG2473202
K-18-I-SO	L1838002-03	18.0000.txt	03/21/25 10:41	1	WG2473202
P-230-I-SO	L1838002-04	19.0000.txt	03/21/25 10:51	1	WG2473202
CCV	METALSIC300321251101	20.0000.txt	03/21/25 11:01		
CCB	METALSIC300321251110	21.0000.txt	03/21/25 11:10		
P-350-I-SO	L1838002-05	22.0000.txt	03/21/25 11:20	1	WG2473202
NHR-I-SO	L1838002-06	23.0000.txt	03/21/25 11:29	1	WG2473202
DUP-SO-031125	L1838002-07	24.0000.txt	03/21/25 11:39	1	WG2473202
FLYASH-I-SO	L1838002-08	25.0000.txt	03/21/25 11:49	1	WG2473202
MONTROSE-LAKE-I-SO	L1838002-09	26.0000.txt	03/21/25 11:58	1	WG2473202
DUP	R4189399-8	27.0000.txt	03/21/25 12:08	1	WG2473202
CCV	METALSIC300321251218	28.0000.txt	03/21/25 12:18		
CCB	METALSIC300321251227	29.0000.txt	03/21/25 12:27		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838002	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	032125 SS

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.01	.0106	106	0.05	.0459	91.80
File ID:		02.0000.TXT			03.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838002	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	032125 SS

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.10	.1016	102	0.25	.2527	101
File ID:		04.0000.TXT			05.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838002	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	032125 SS

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.50	.5011	100	1	.9982	99.80
File ID:		06.0000.TXT			07.0000.TXT	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1838002	**Calibration (begin) date/time:**	03/13/25 19:07
Instrument ID:	METALSIC30	**Calibration (end) date/time:**	03/13/25 20:04
Analytical Method:	7199	**Analytical Run:**	032125 SS

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
HEXAVALENT CHROMIUM	5	1	0.99987			124.299	0.189	4.808

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

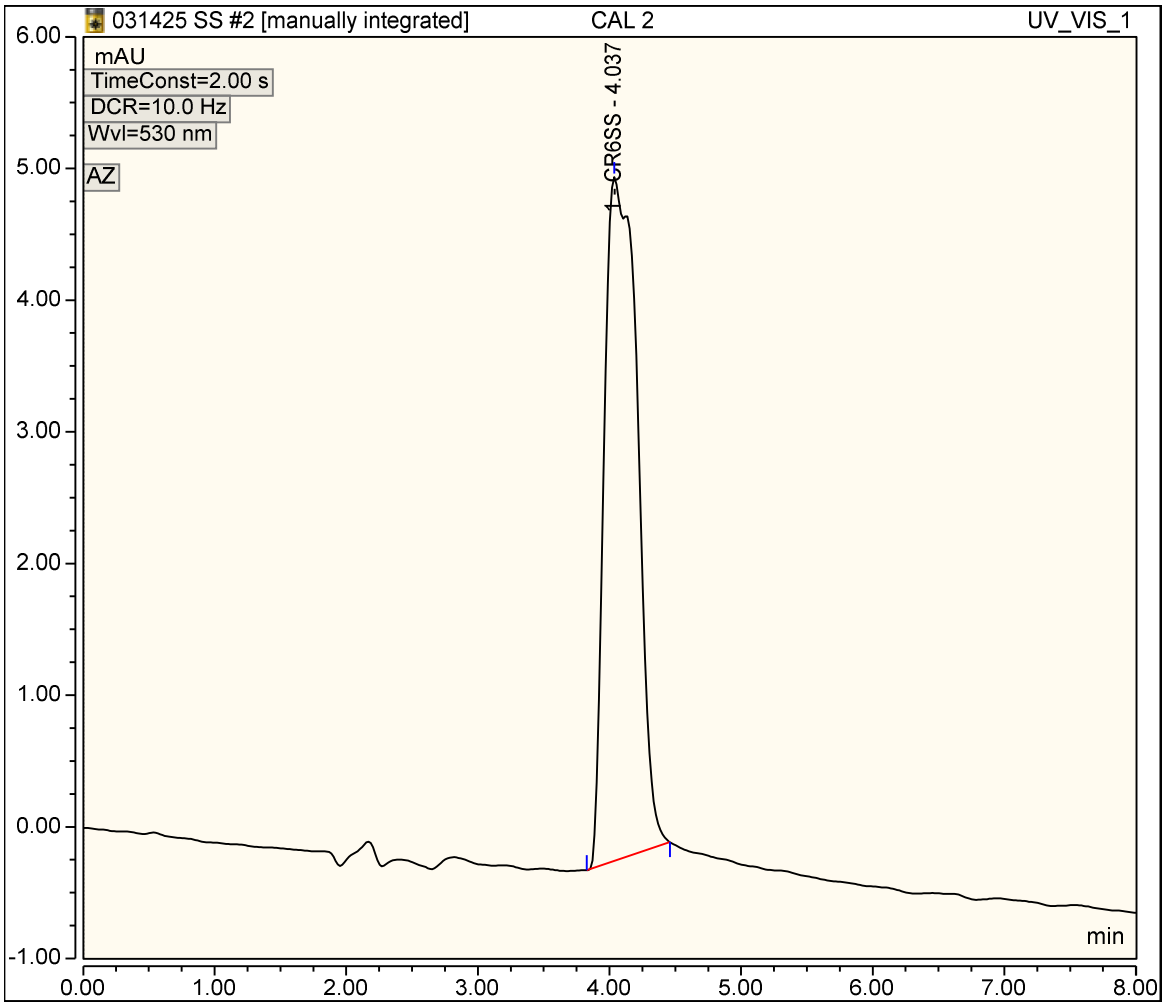
Sample Name:	**CAL 1**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 19:07**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



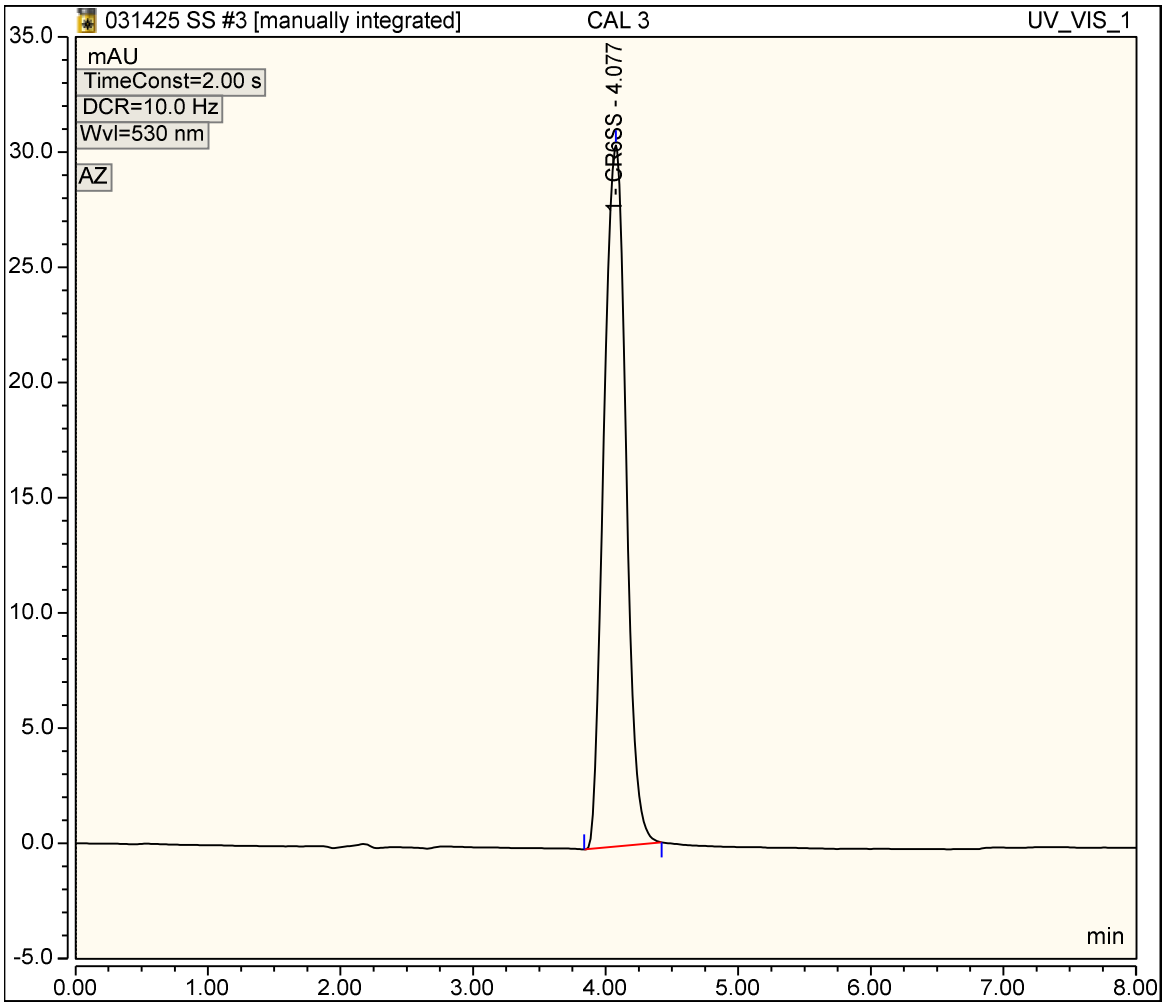
Sample Name:	**CAL 2**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: ANW4260 031325**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 19:16**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.04	CR6SS	BMB*	1.501	5.192	0.0106
		TOTAL:		1.50	5.19	0.01



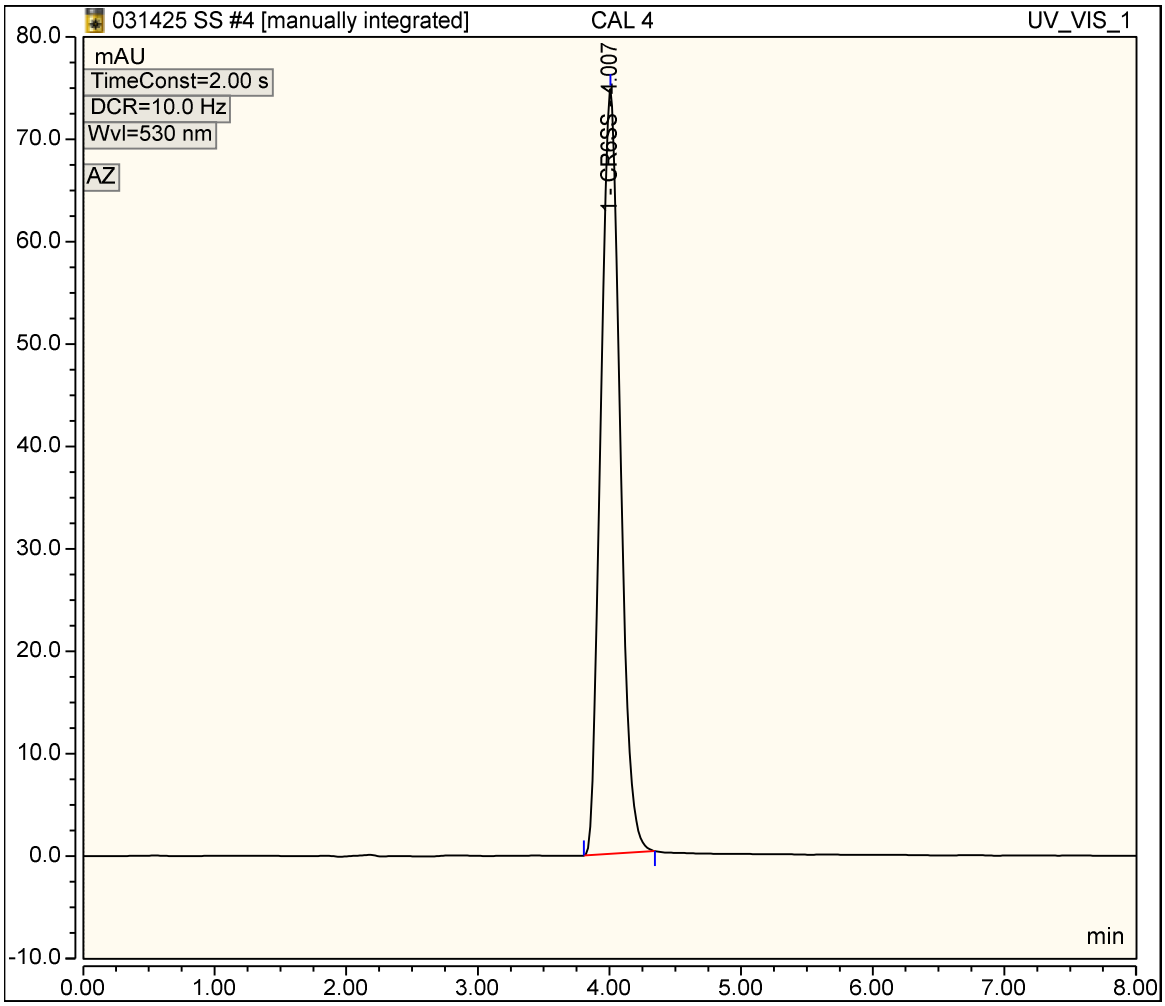
Sample Name:	**CAL 3**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: ANW4260 031325**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 19:26**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.08	CR6SS	BMB*	5.890	30.417	0.0459
		TOTAL:		5.89	30.42	0.05



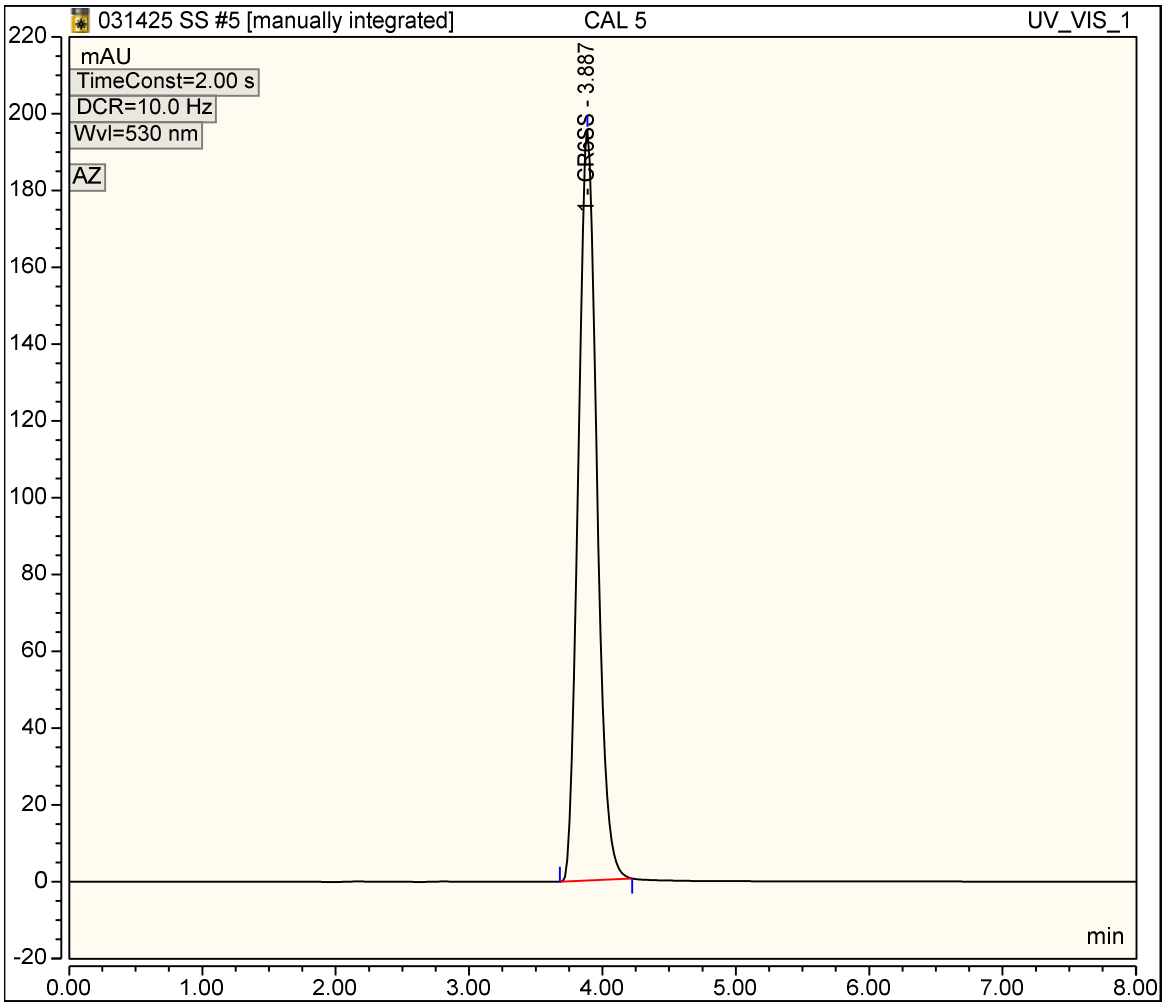
Sample Name:	**CAL 4**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: ANW4260 031325**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 19:35**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.01	CR6SS	BMB*	12.812	74.673	0.1016
		TOTAL:		12.81	74.67	0.10



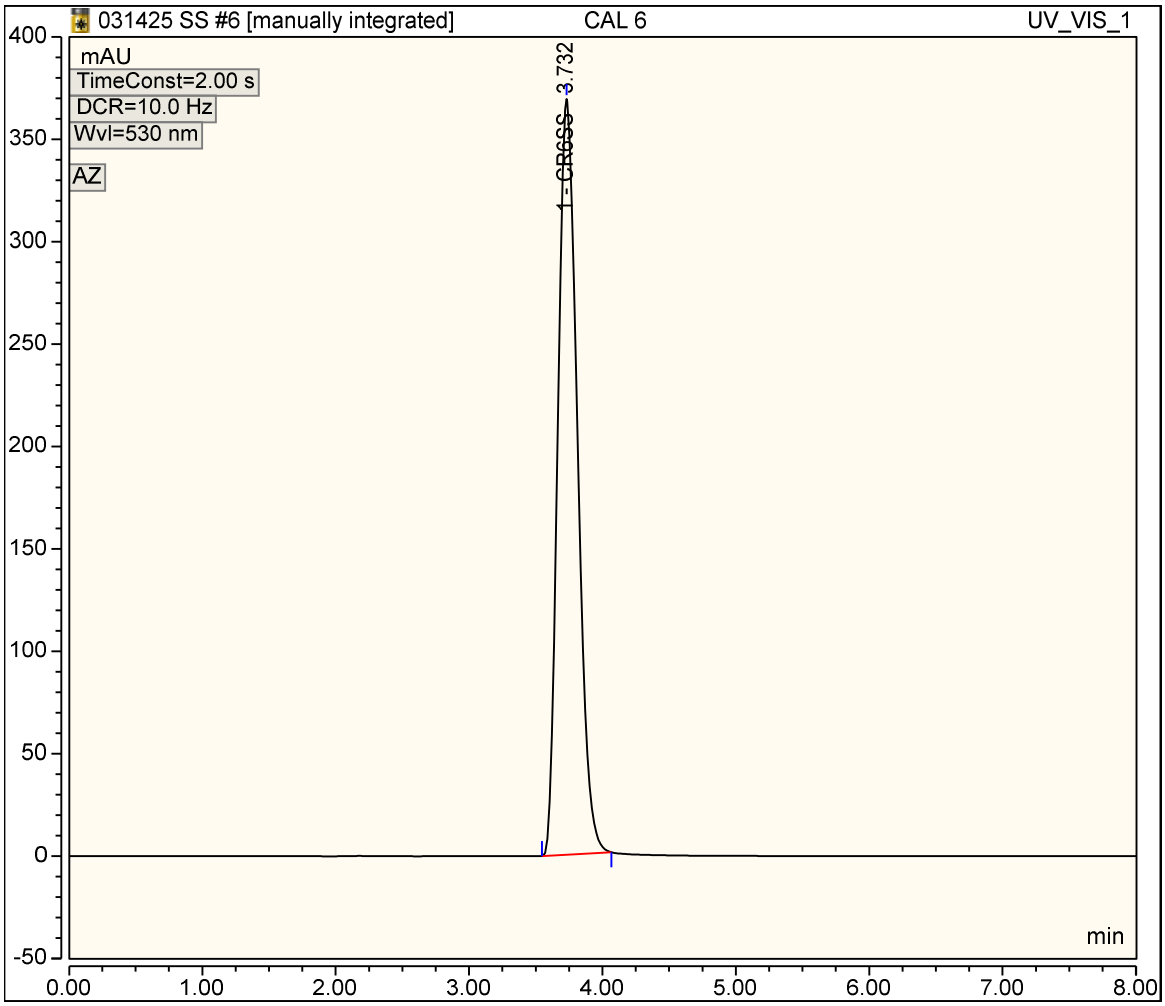
Sample Name:	**CAL 5**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: ANW4260 031325**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 19:45**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.89	CR6SS	BMB*	31.605	195.297	0.2527
		TOTAL:		31.61	195.30	0.25



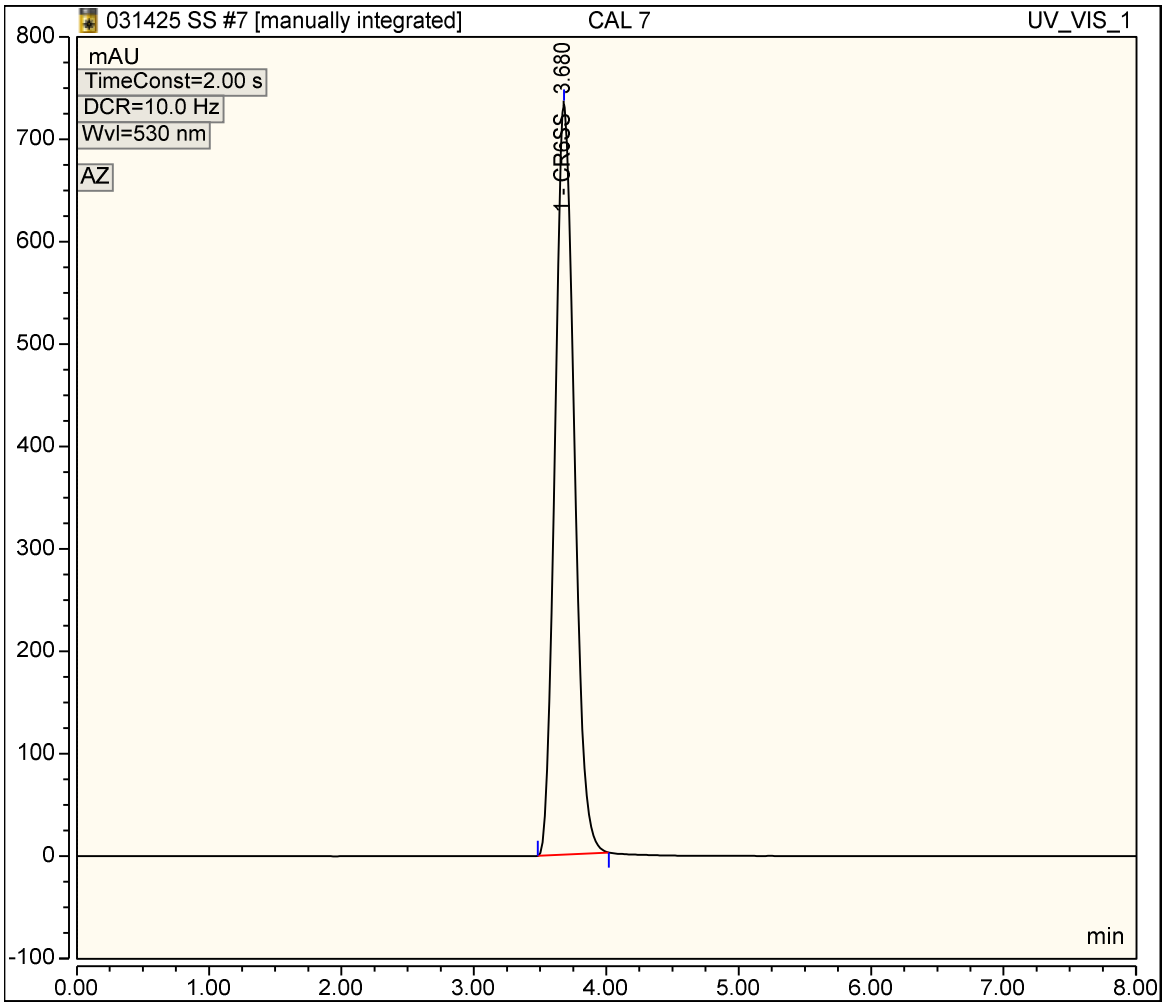
Sample Name:	**CAL 6**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: ANW4260 031325**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 19:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.73	CR6SS	BMB*	62.478	368.963	0.5011
		TOTAL:		62.48	368.96	0.50



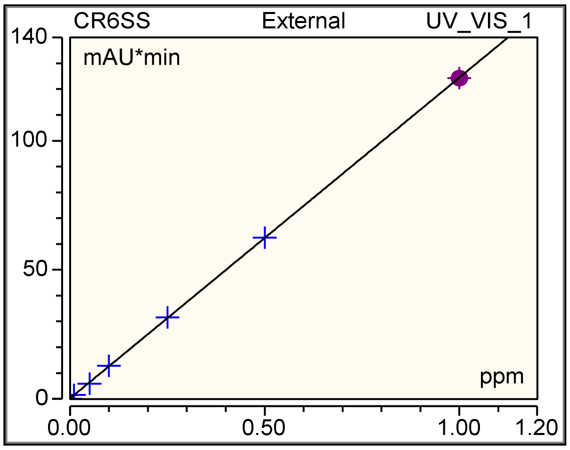
Sample Name:	**CAL 7**	*Inj. Vol.:*	**250.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: ANW4260 031325**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 20:04**	*Run Time:*	**8.00**

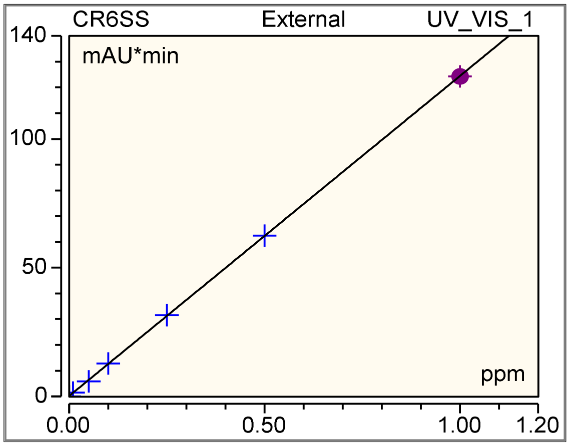
No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.68	CR6SS	BMB*	124.259	732.596	0.9982
		TOTAL:		124.26	732.60	1.00

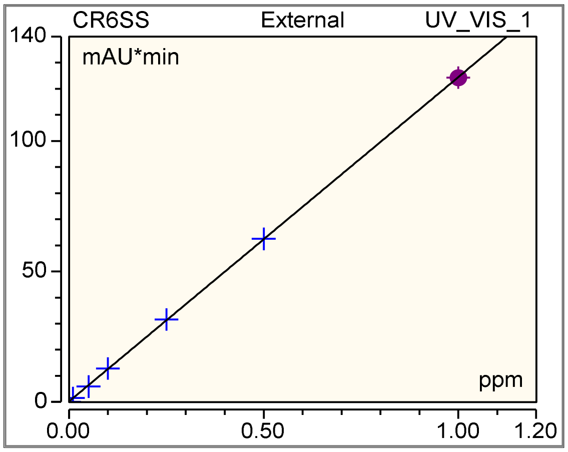


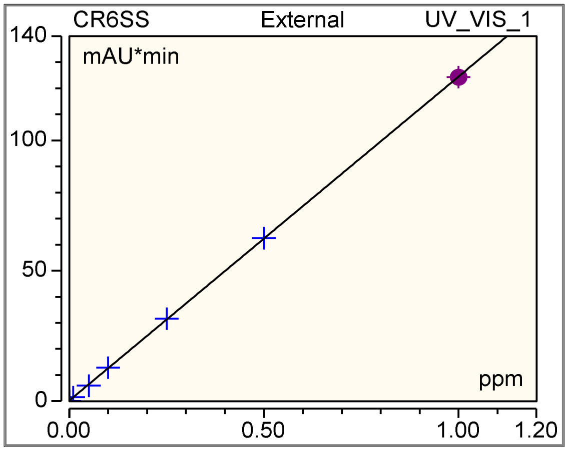
Calibration Batch Report

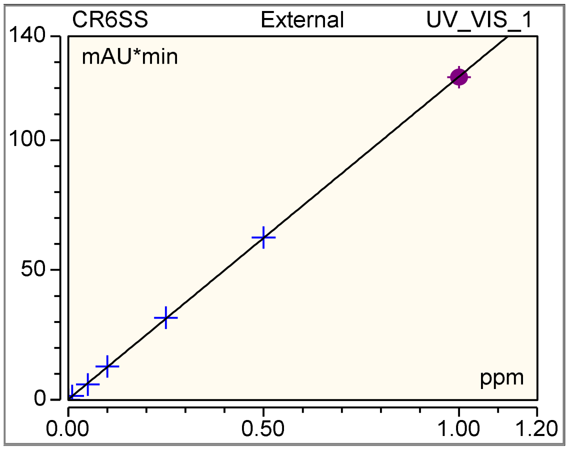
Sequence:	**031425 SS**	Inj. Vol.:	**250.0**
Program:	**Cr6**	Operator:	**WETLABIC25**
Inj. Date/Time:	**03/13/25 20:04**	Run Time:	**8.00**

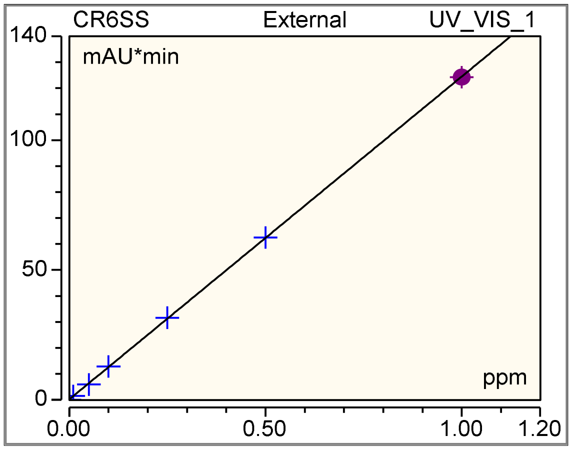




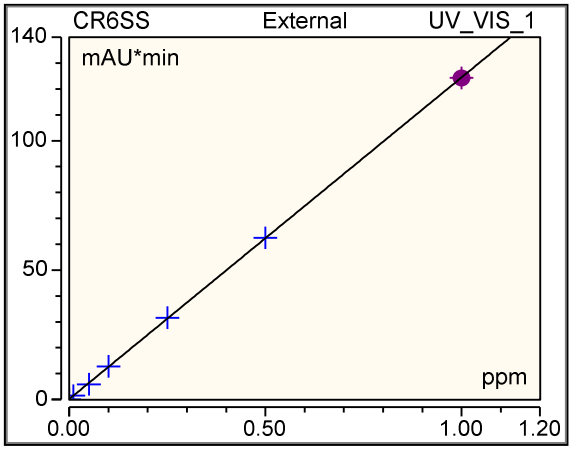








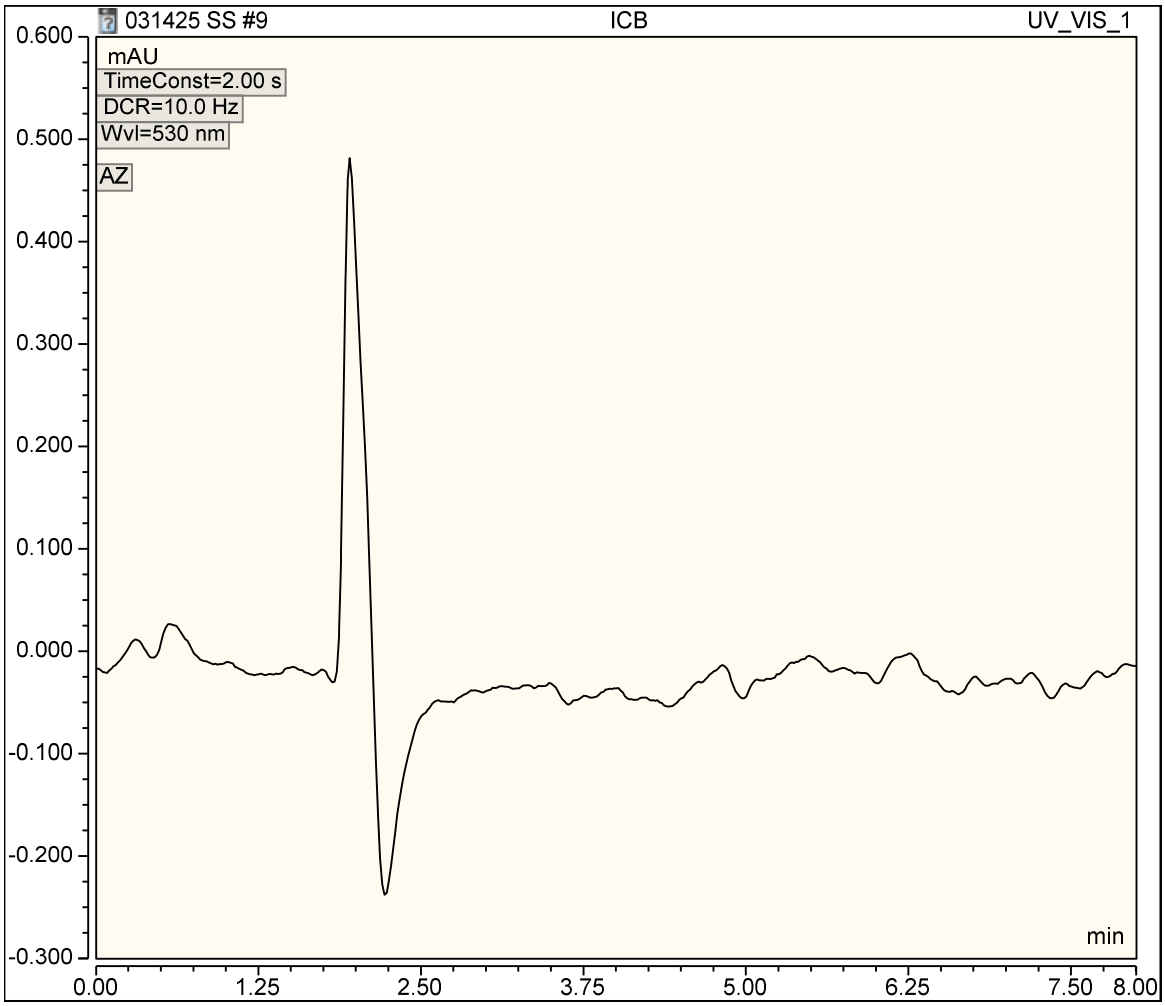
Sequence:	**031425 SS**	*Inj. Vol.:*	**250.0**
Program:	**Cr6**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/13/25 20:04**	*Run Time:*	**8.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	3.68	CR6SS	, WithOffset, 1	6	0.189	124.299	0.000	99.987
AVERAGE:					0.1891	124.2992	0.0000	99.9868

Sample Name:	**ICB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/13/25 20:24**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



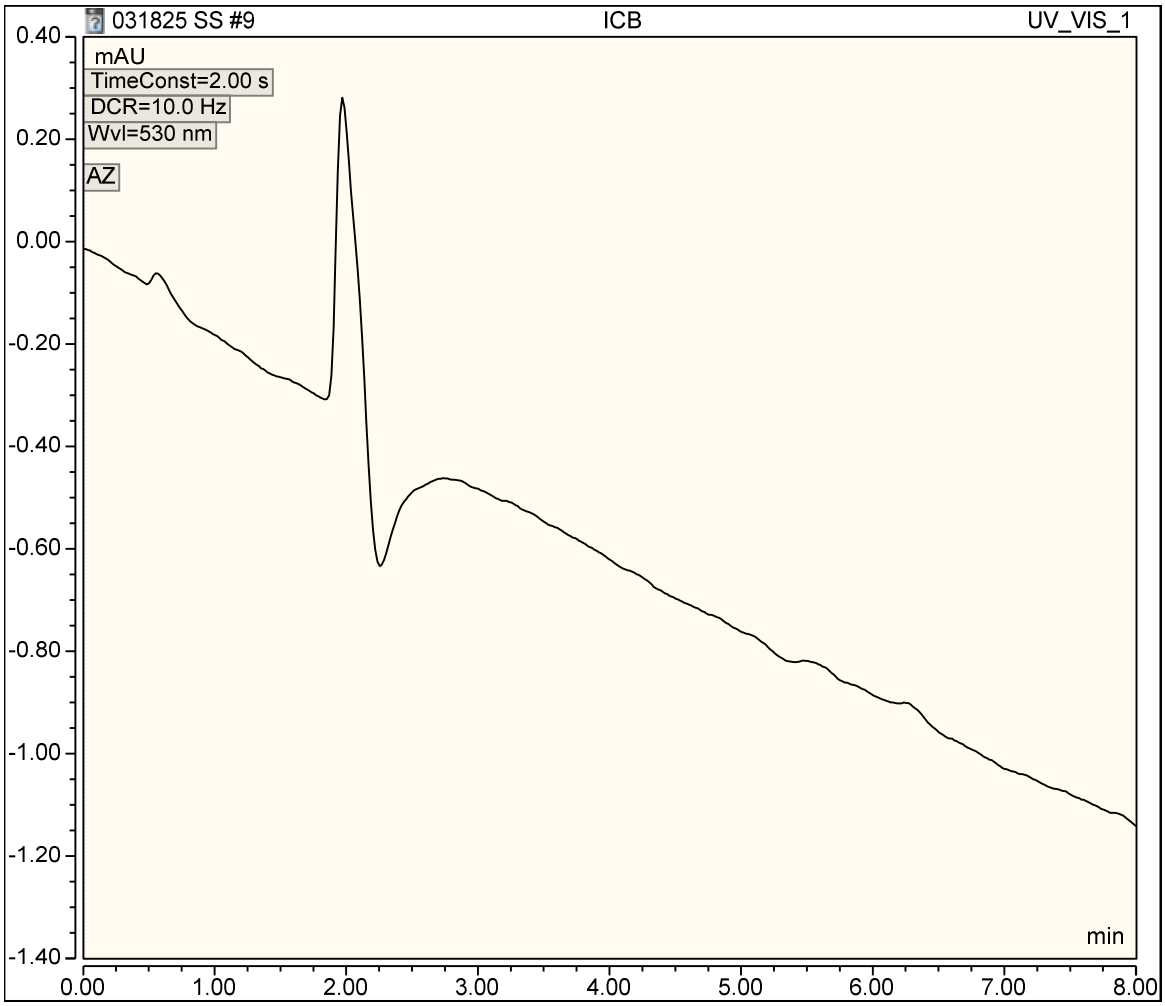
Sample Name:	**ICB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/17/25 00:12**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



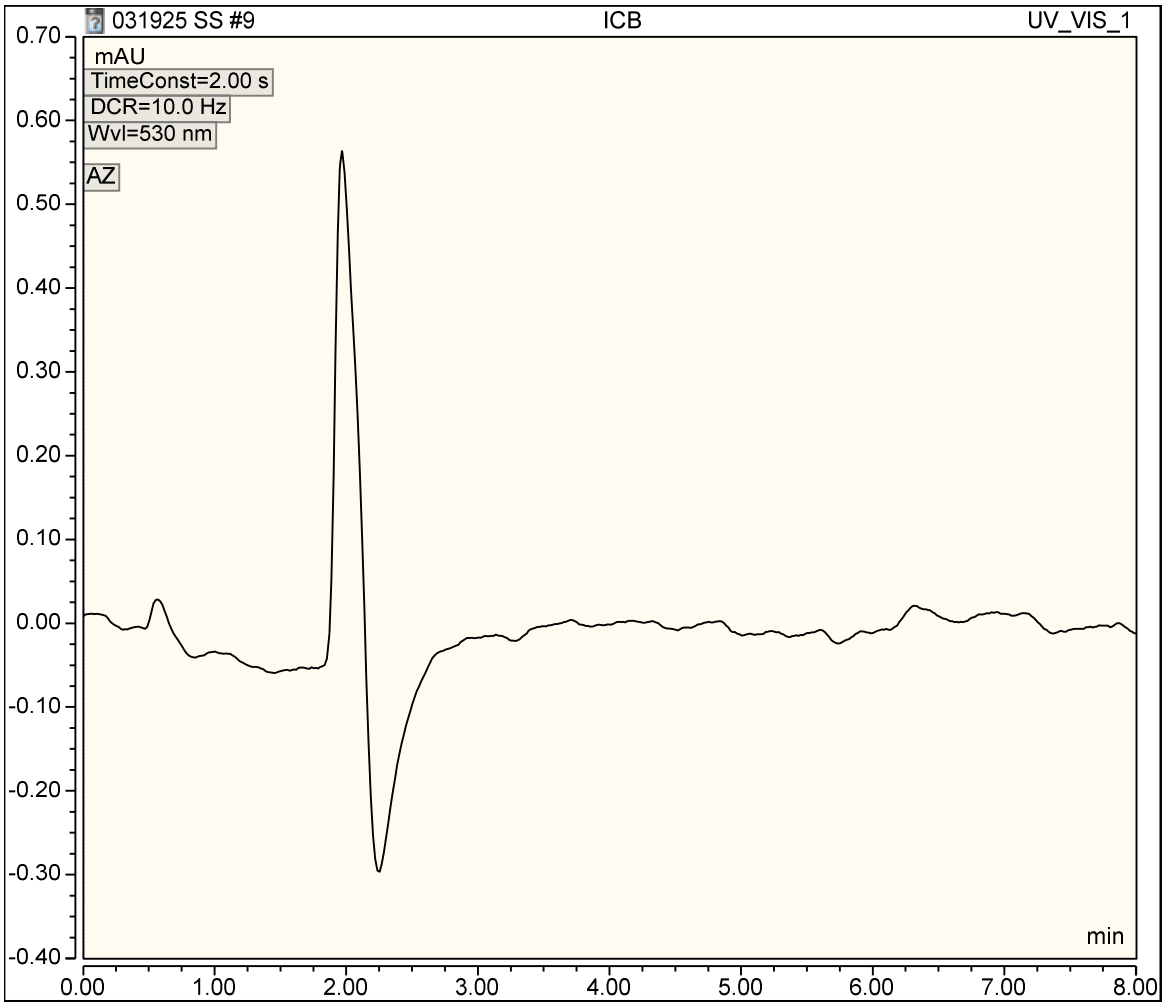
Sample Name:	**ICB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/18/25 22:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



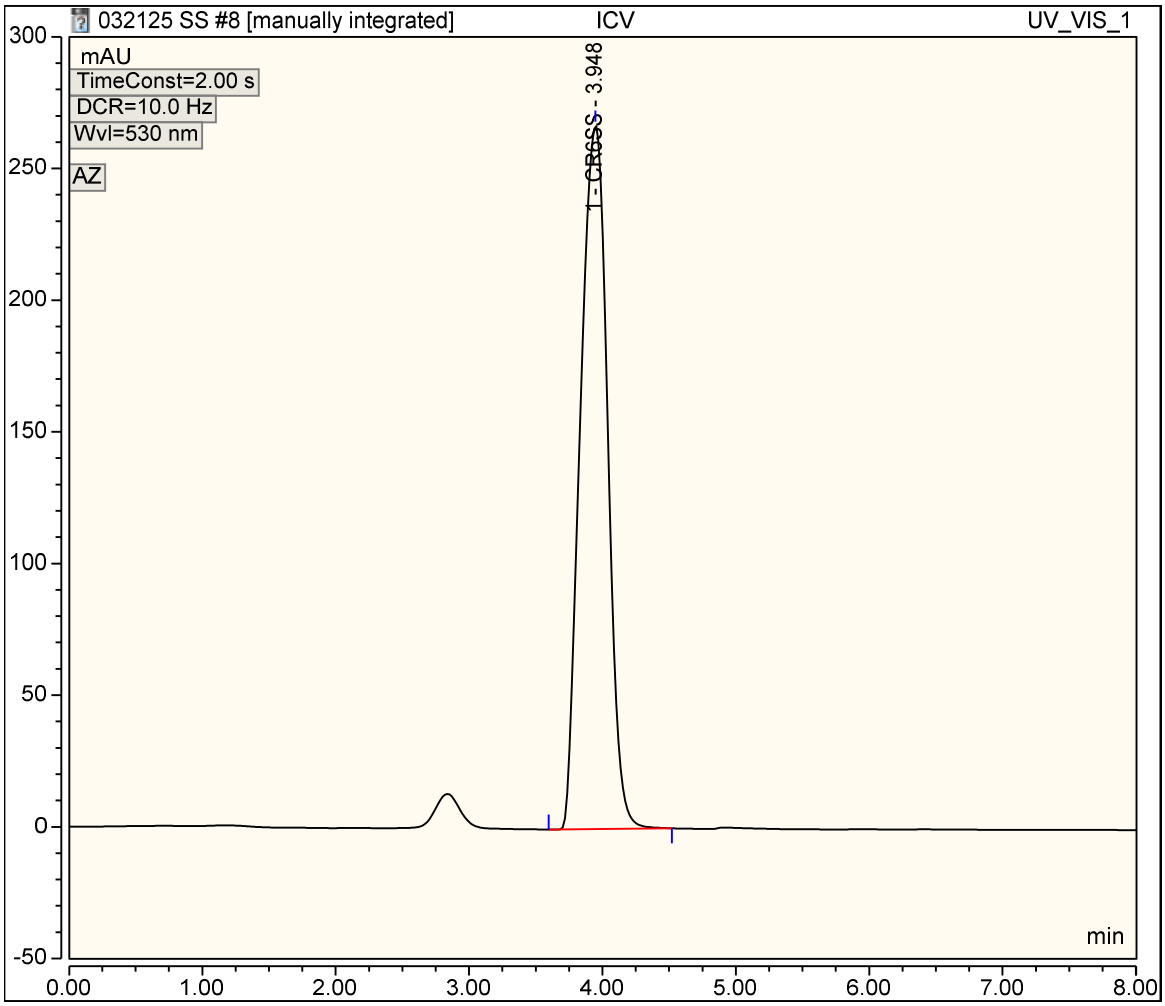
Sample Name:	**ICB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/19/25 17:18**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**ICV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 08:46**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.95	CR6SS	BMB*	63.227	267.172	0.5071
		TOTAL:		63.23	267.17	0.51

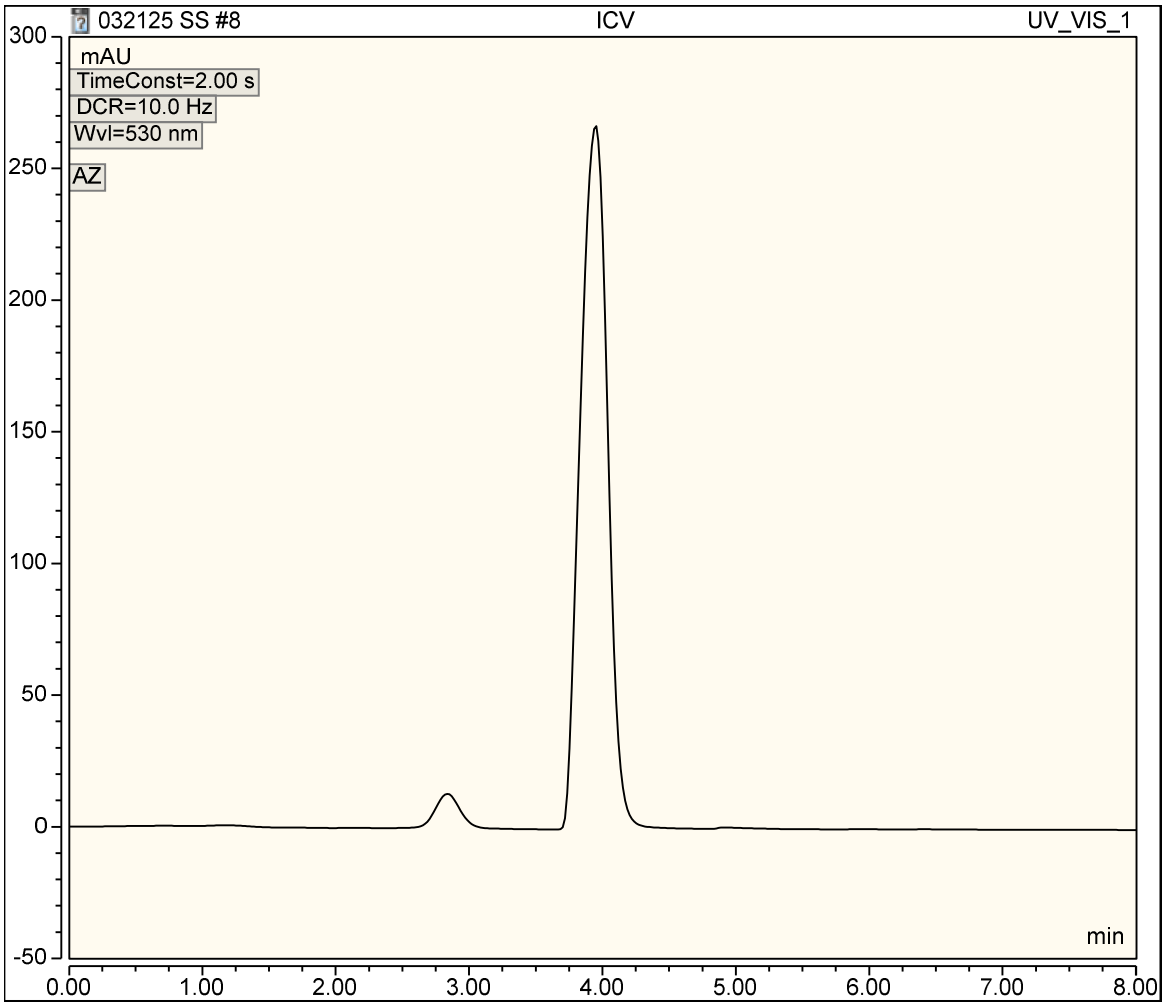


Export for Tree/Integration

PeakNet 6 (r) Dionex 2001
Version 7.2.10.23925

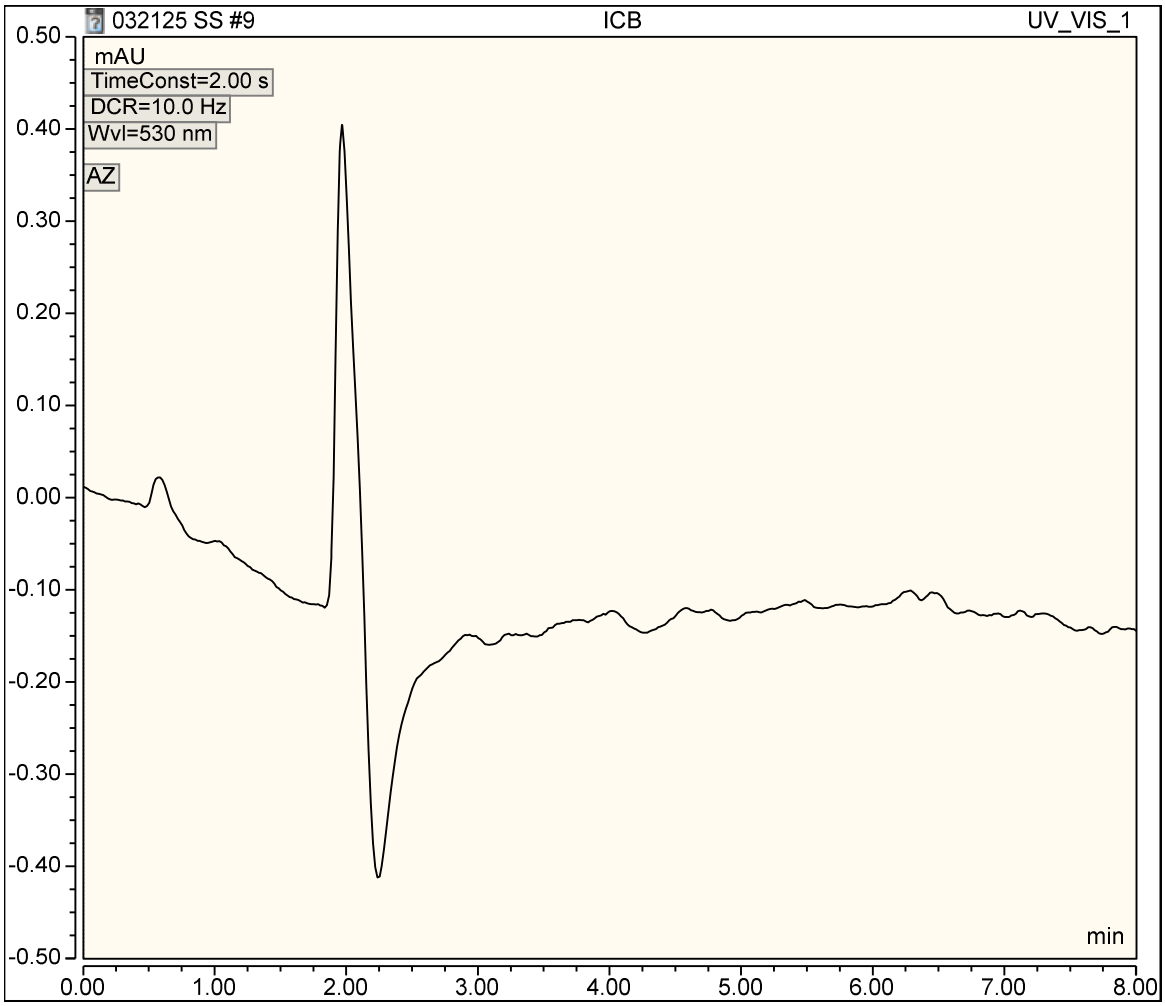
Sample Name:	**ICV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 08:46**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



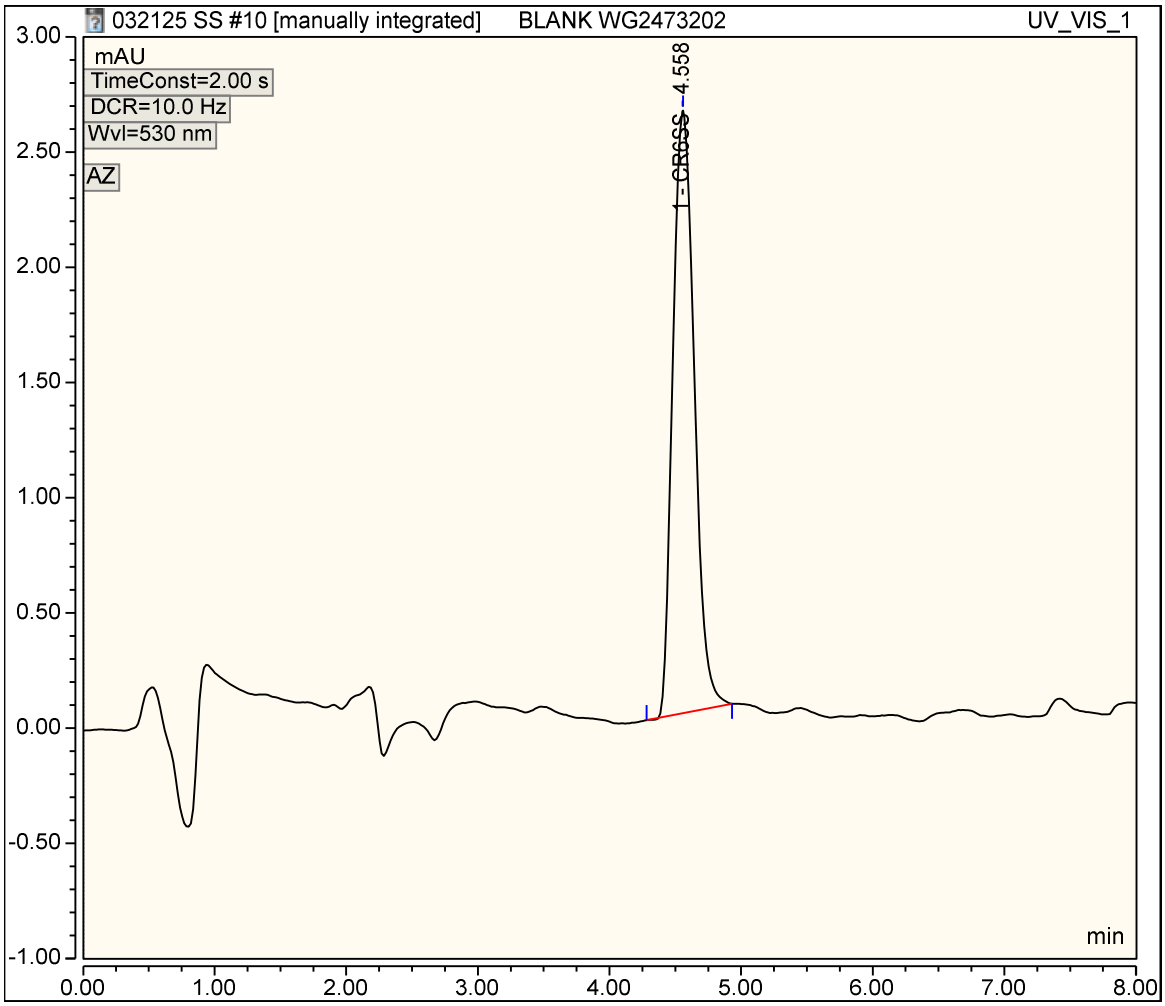
Sample Name:	**ICB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 08:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



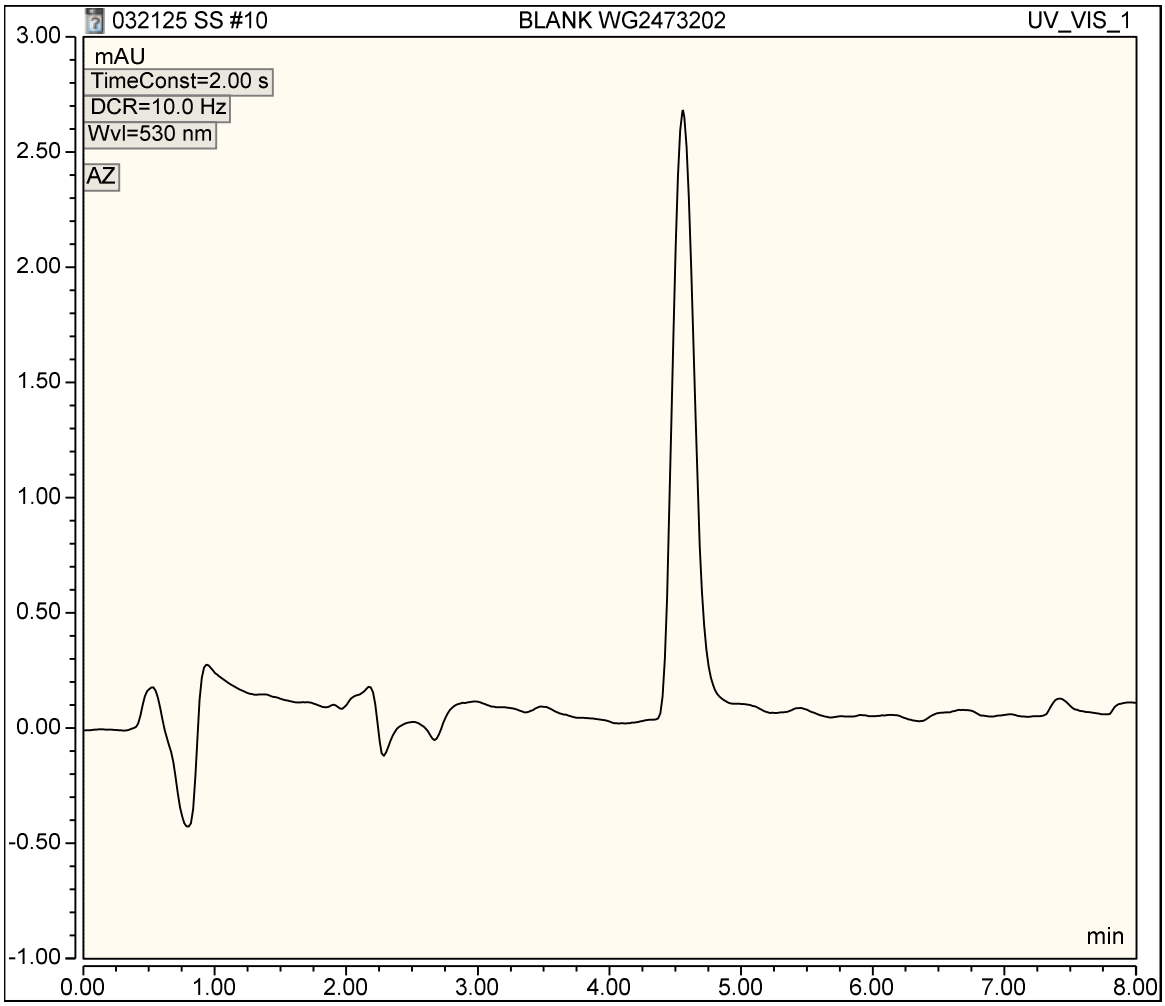
Sample Name:	**BLANK WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 09:24**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.56	CR6SS	BMB*	0.495	2.616	0.0025
		TOTAL:		0.49	2.62	0.00



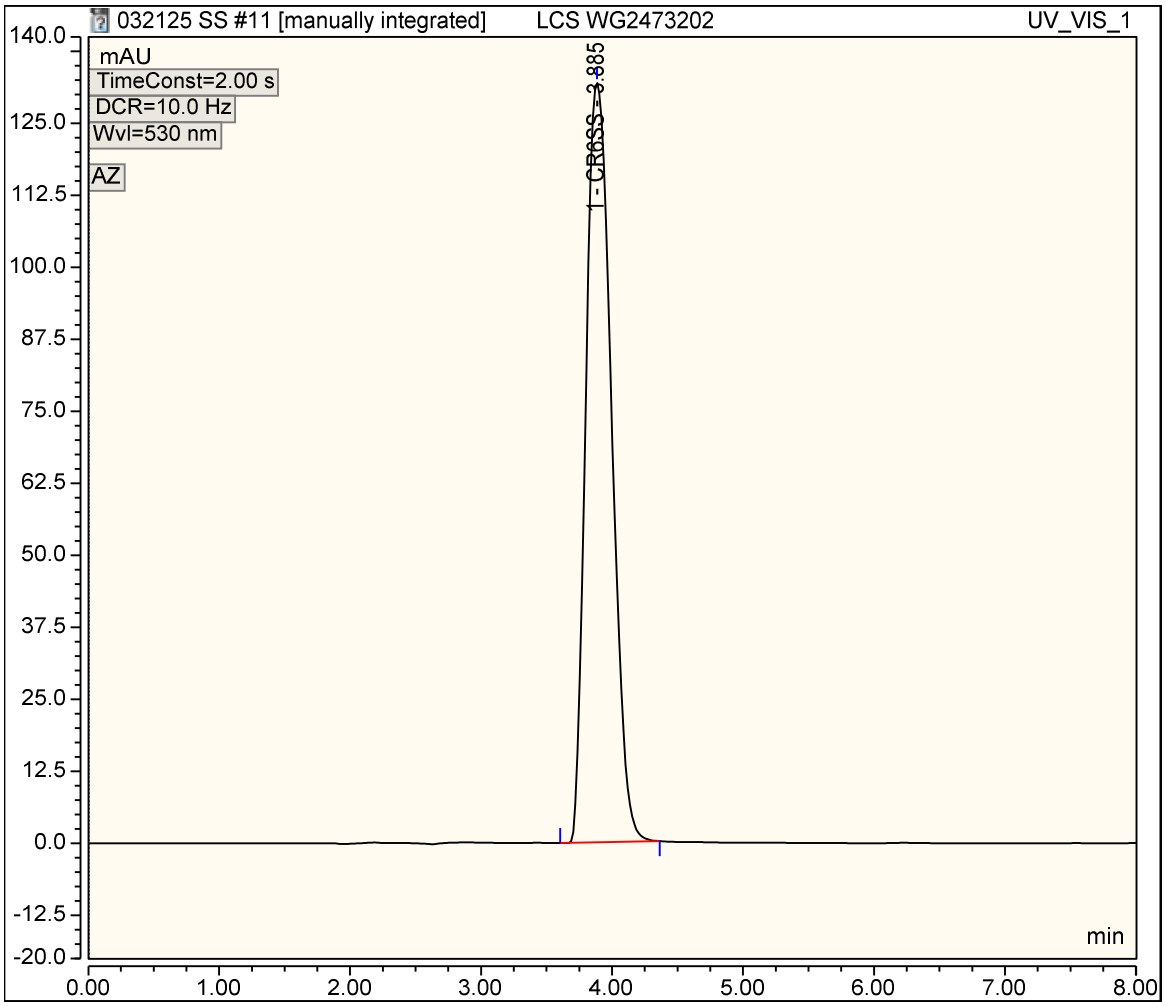
Sample Name:	**BLANK WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 09:24**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



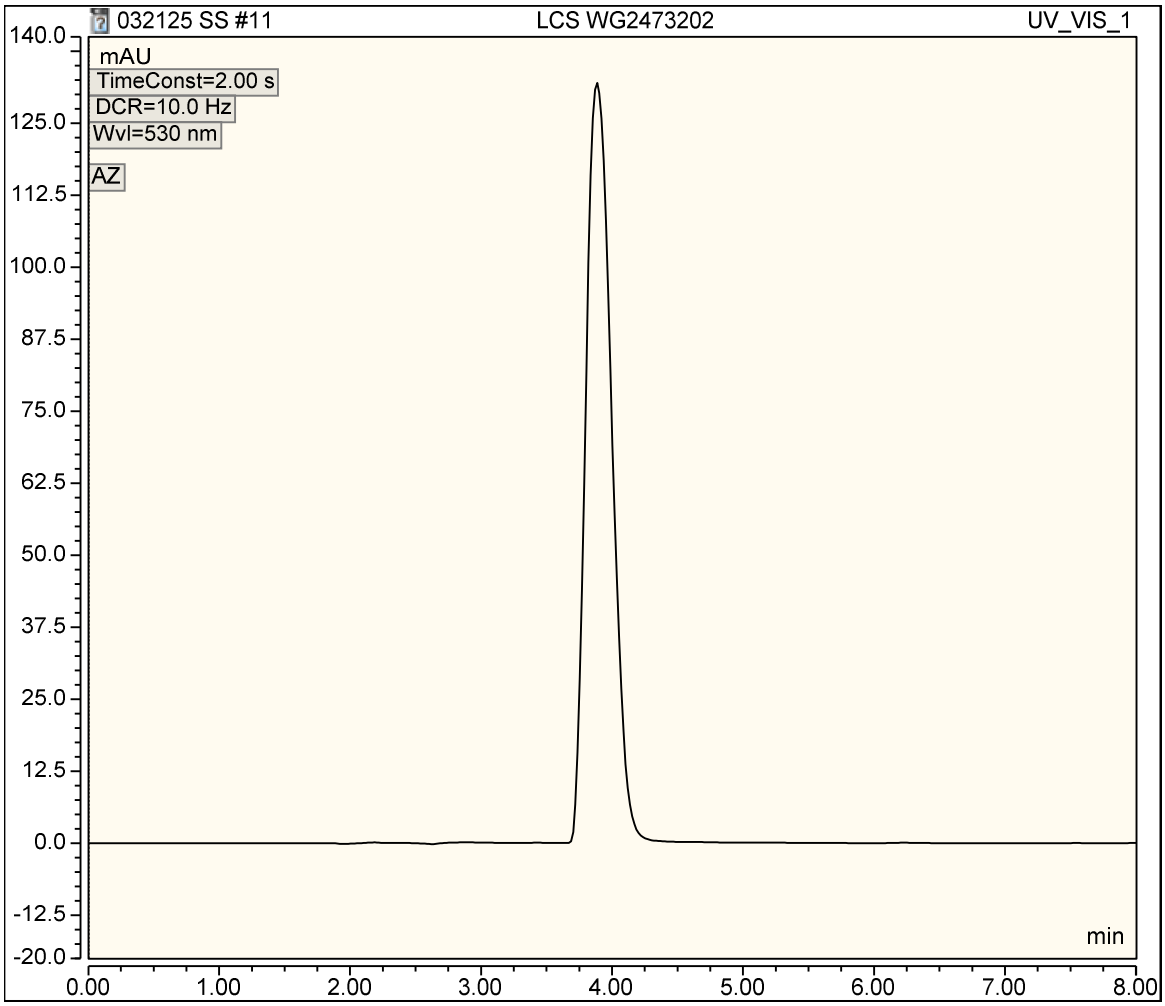
Sample Name:	**LCS WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 09:34**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.88	CR6SS	BMB*	30.015	131.832	0.2400
		TOTAL:		30.02	131.83	0.24



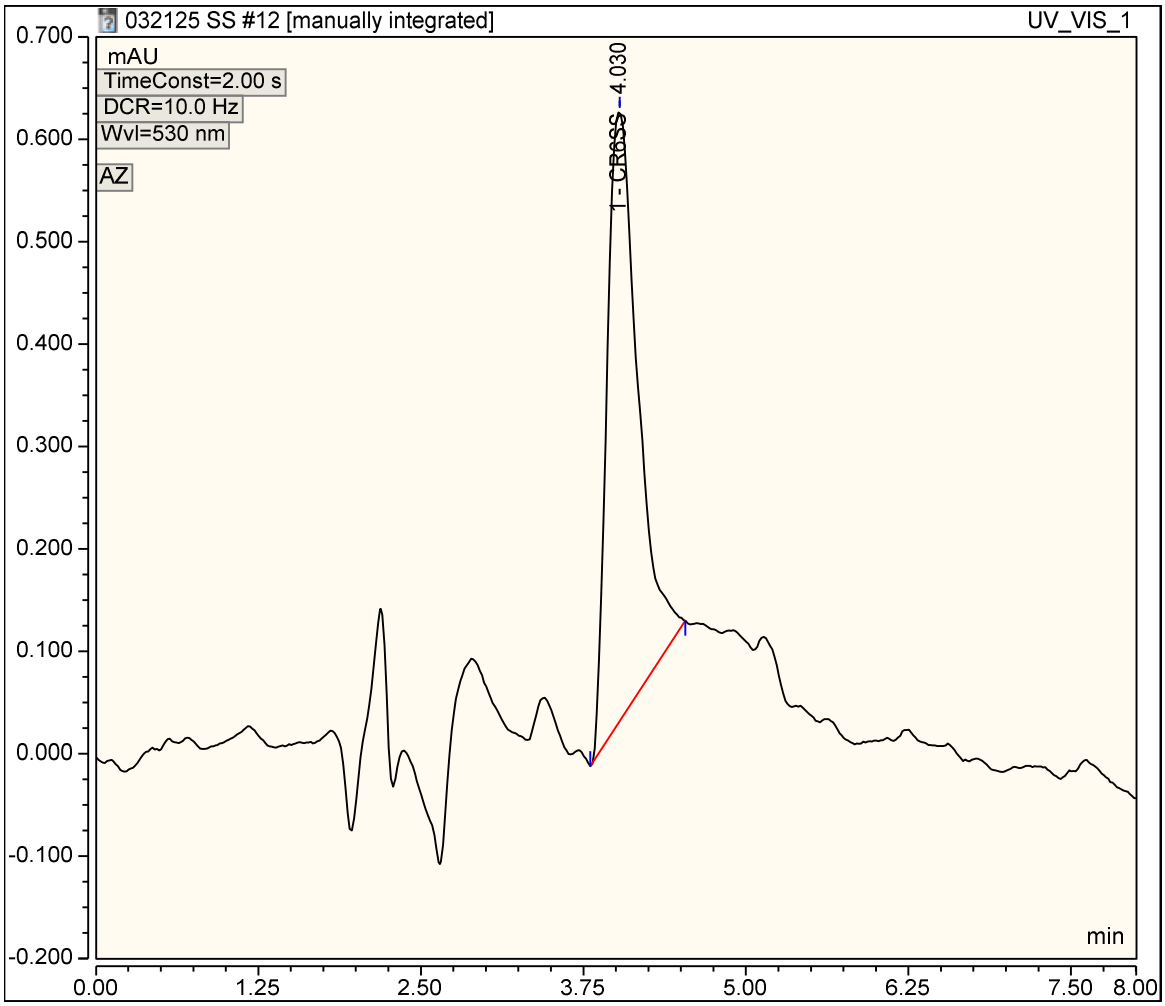
Sample Name:	**LCS WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 09:34**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



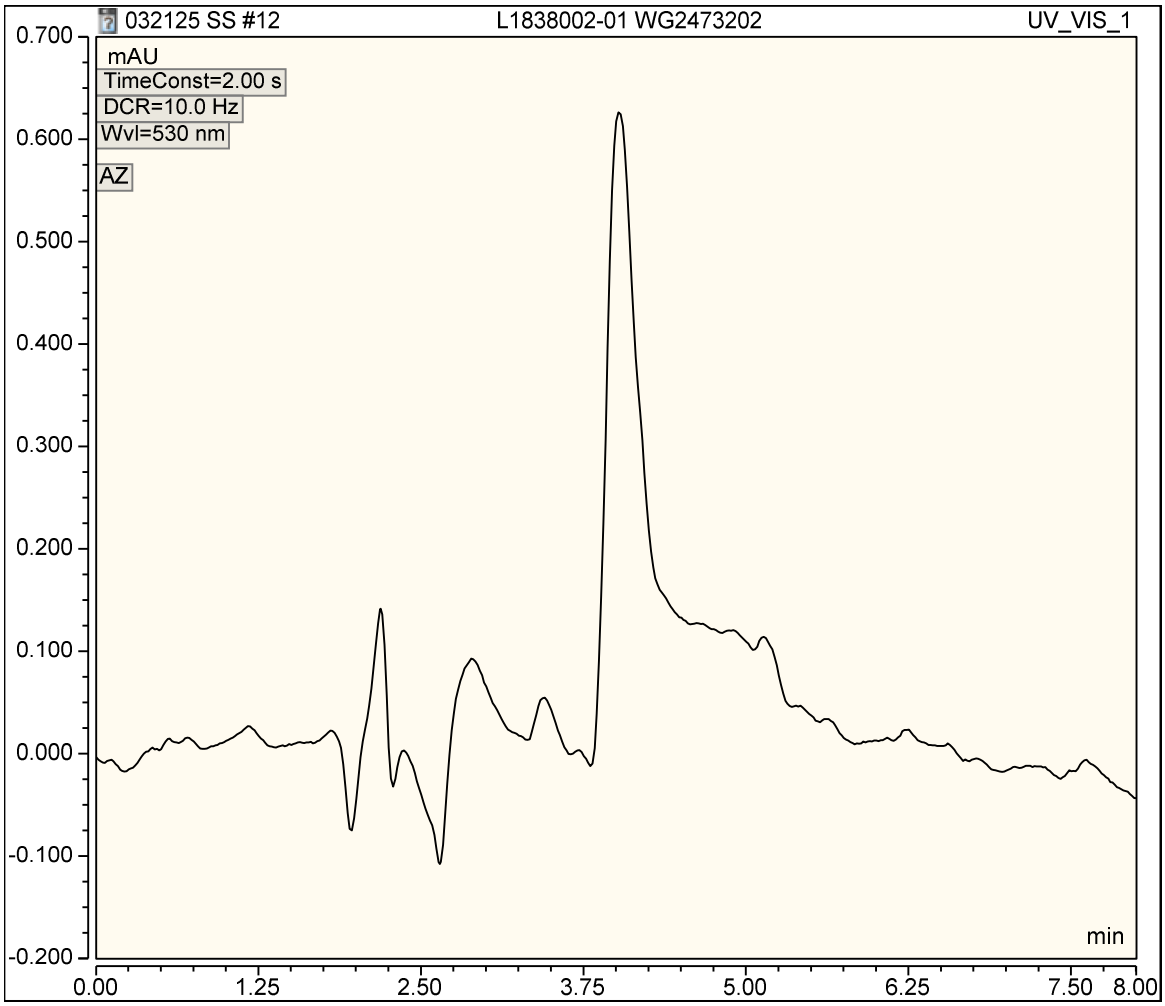
Sample Name:	**L1838002-01 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**5.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 09:44**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.03	CR6SS	BMB*	0.164	0.595	n.a.
		TOTAL:		0.16	0.59	0.00



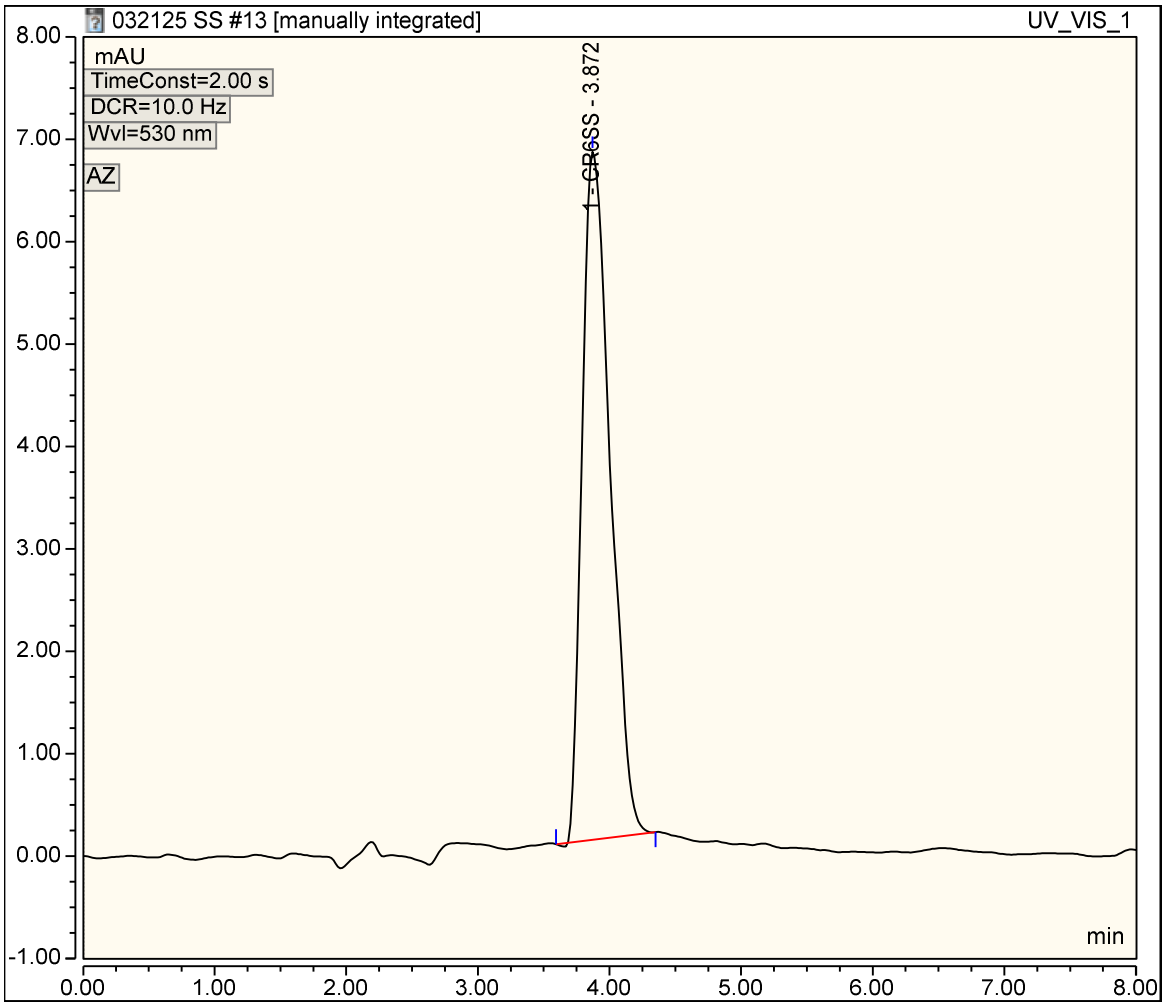
Sample Name:	**L1838002-01 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**5.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 09:44**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



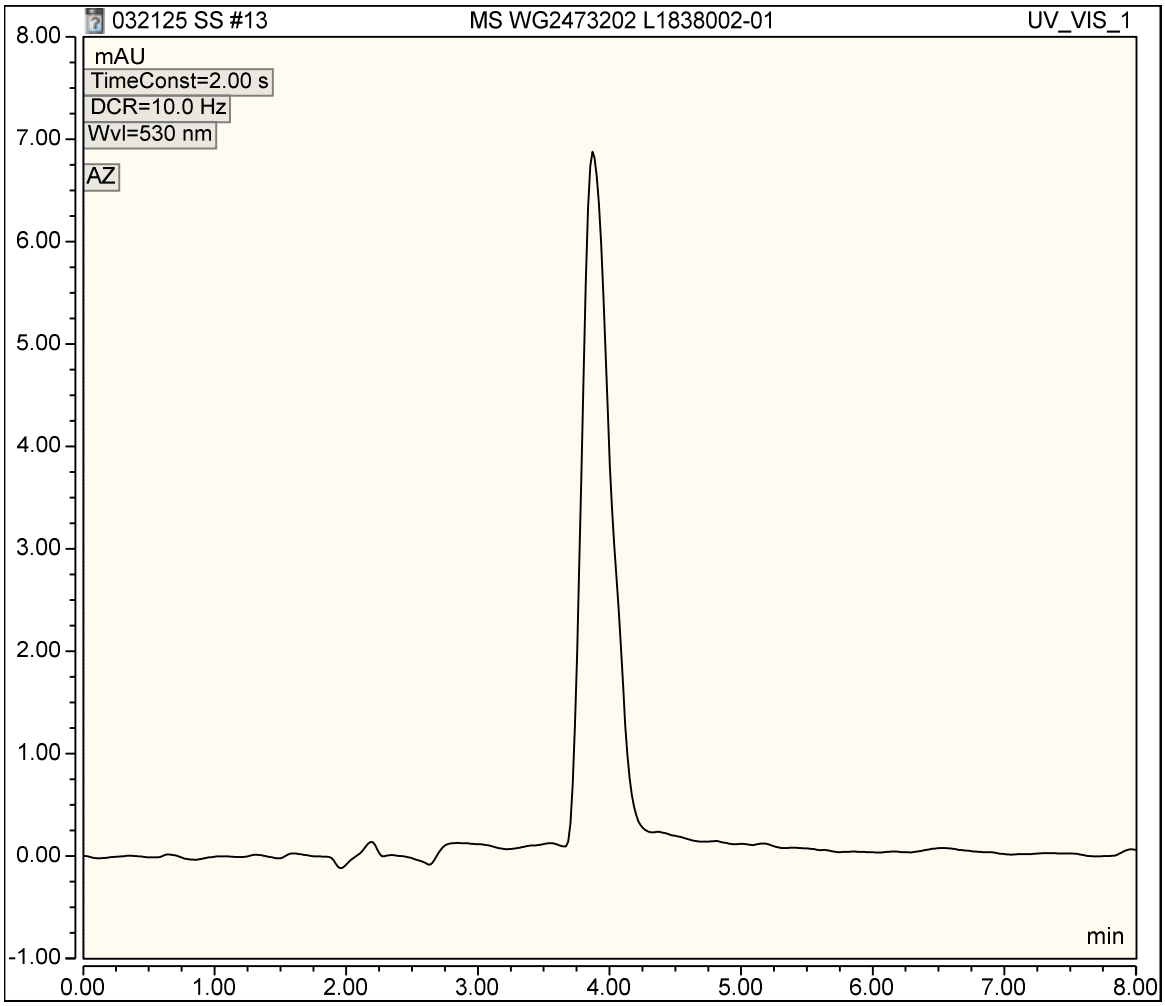
Sample Name:	**MS WG2473202 L1838002-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**5.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 09:53**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.87	CR6SS	BMB*	1.664	6.720	0.0593
		TOTAL:		1.66	6.72	0.06



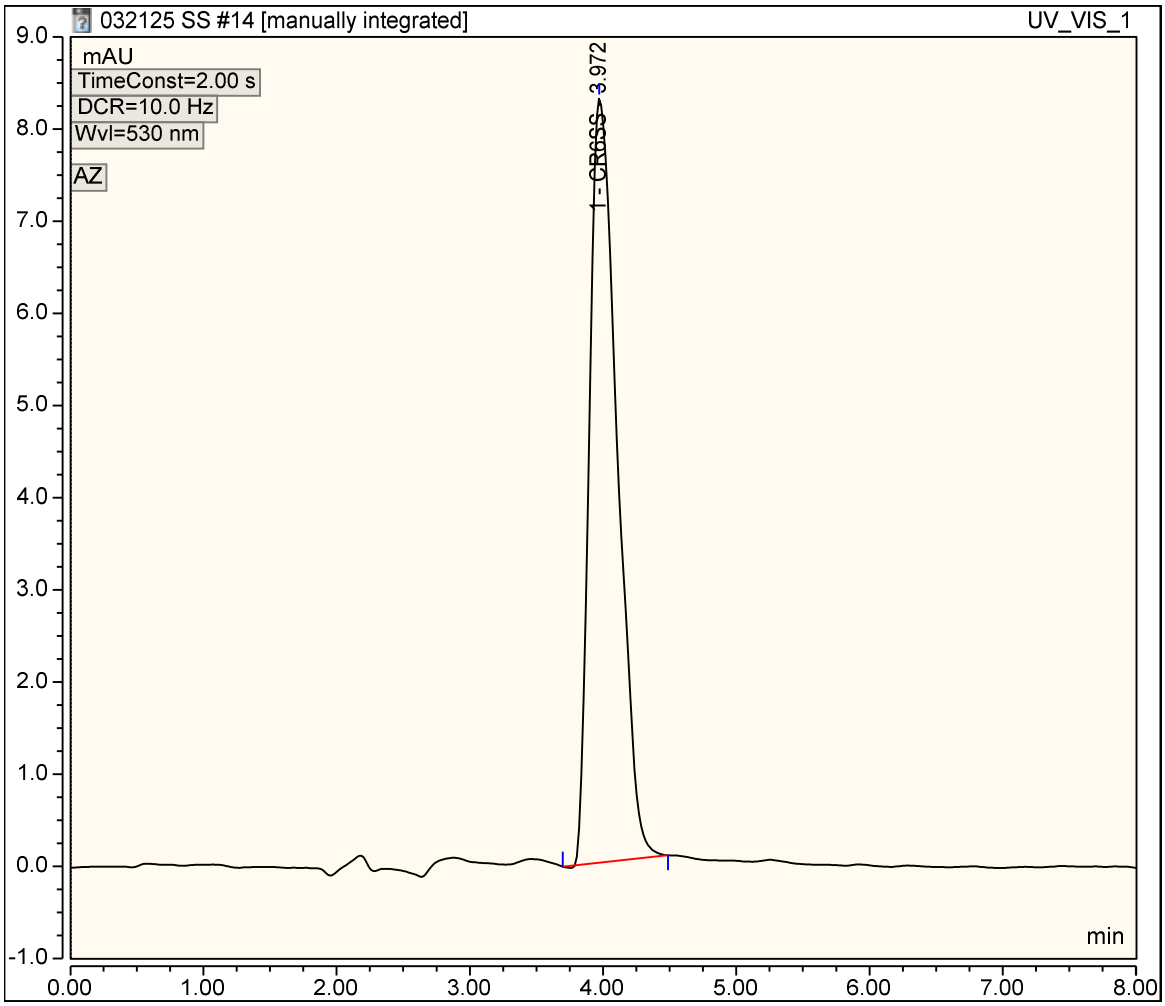
Sample Name:	**MS WG2473202 L1838002-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**5.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 09:53**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



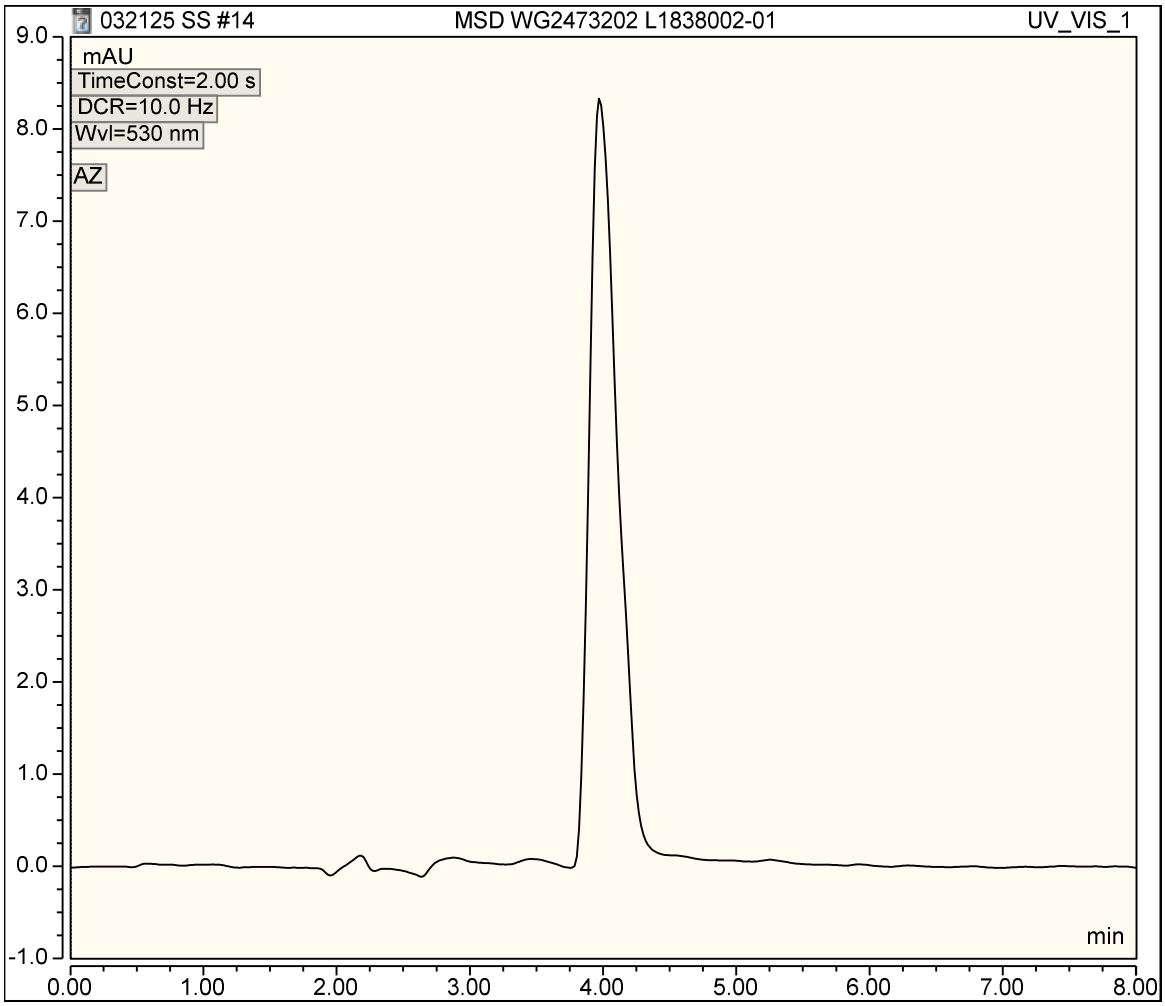
Sample Name:	**MSD WG2473202 L1838002-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**5.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 10:03**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.97	CR6SS	BMB*	2.017	8.293	0.0735
		TOTAL:		2.02	8.29	0.07



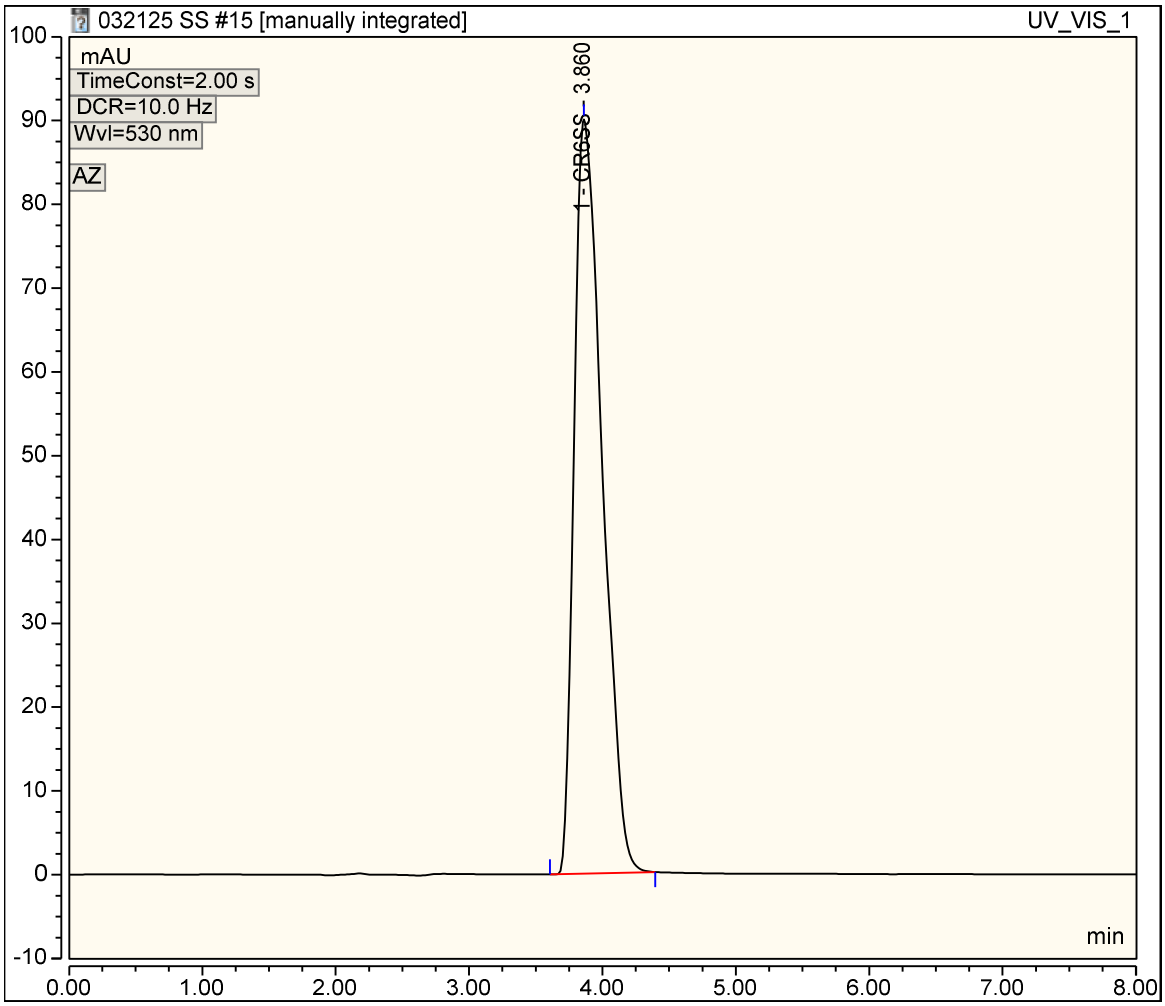
Sample Name:	**MSD WG2473202 L1838002-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**5.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 10:03**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



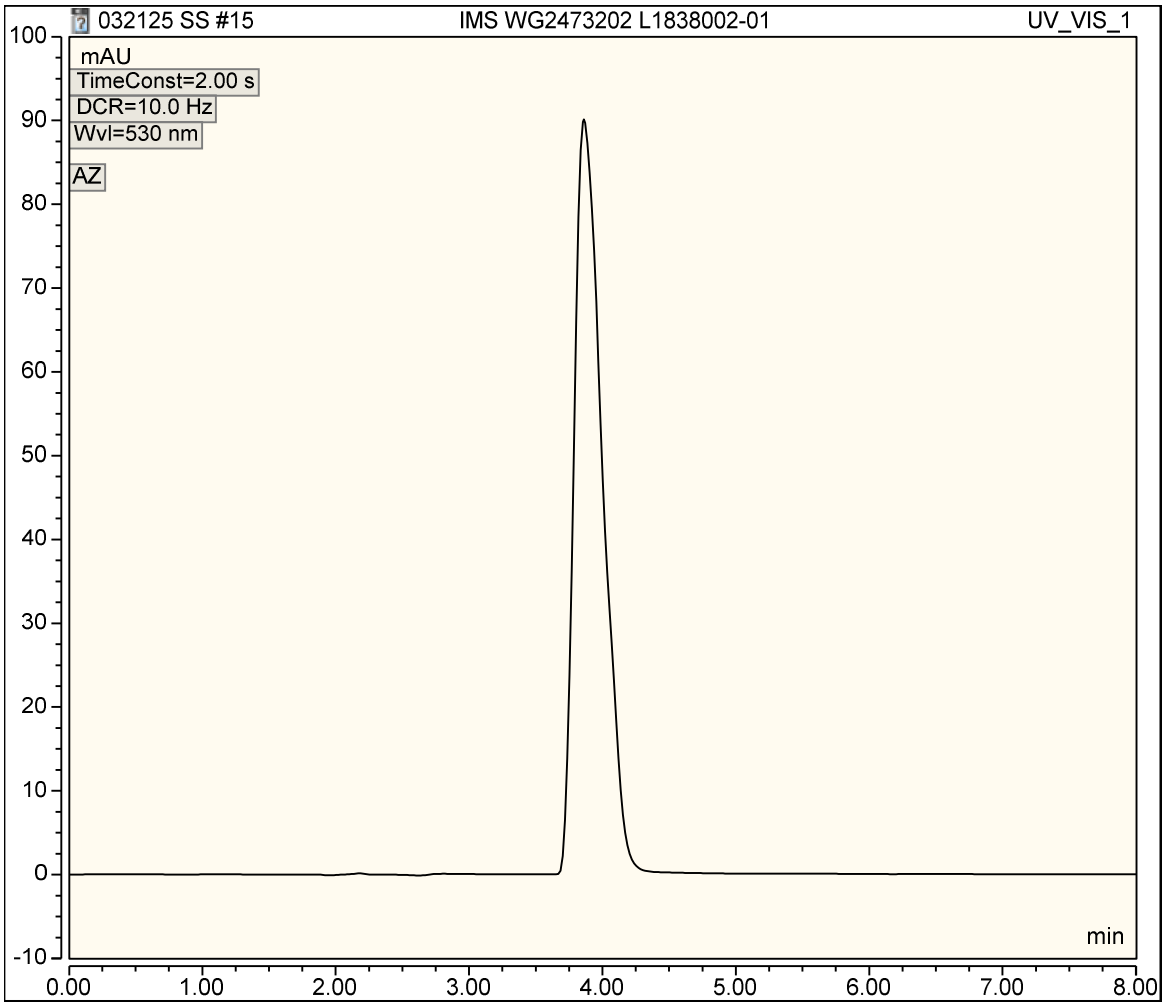
Sample Name:	**IMS WG2473202 L1838002-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**50.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 10:12**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.86	CR6SS	BMB*	22.005	89.995	8.7757
		TOTAL:		22.01	89.99	8.78



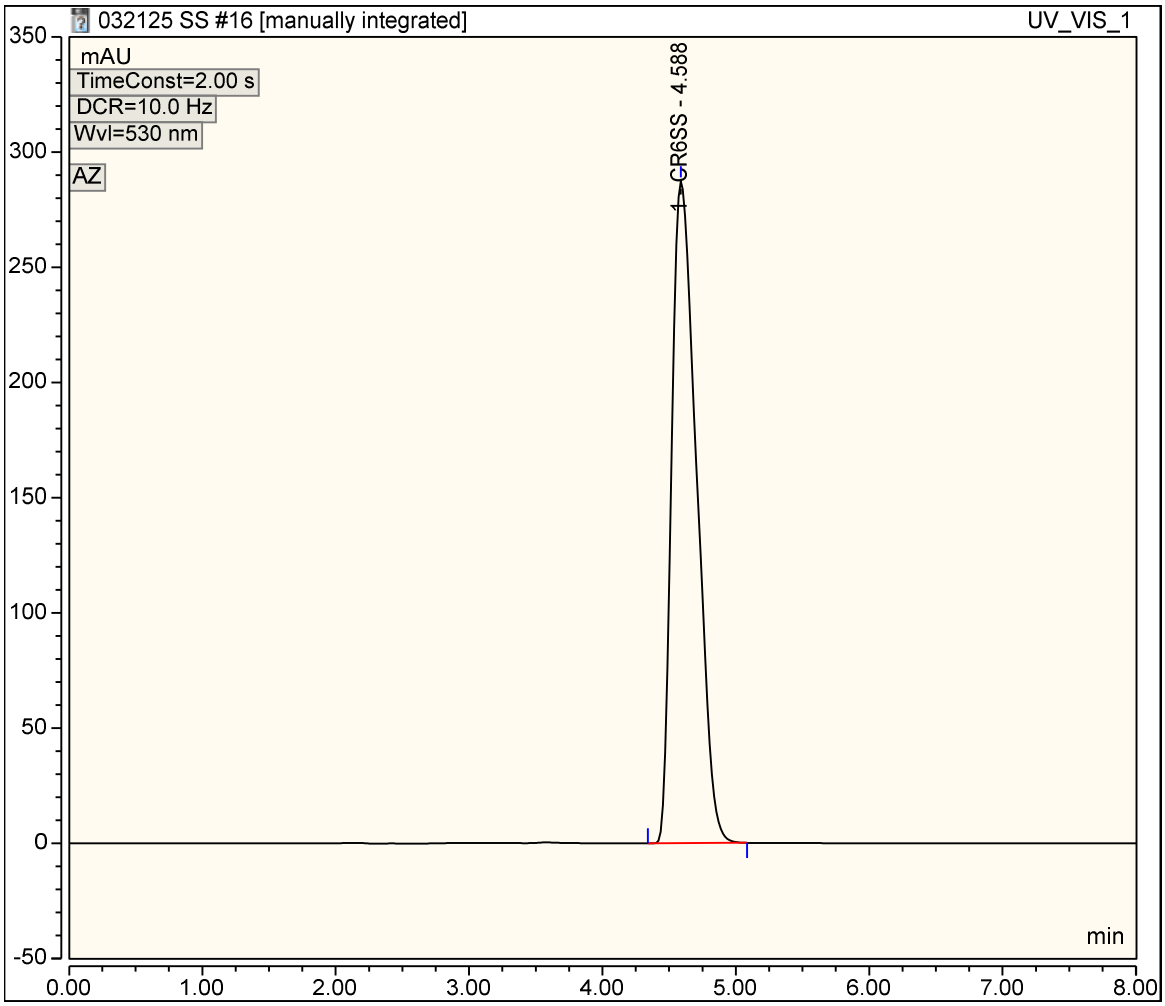
Sample Name:	**IMS WG2473202 L1838002-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**50.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 10:12**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**PS WG2473202 L1838002-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 10:22**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.59	CR6SS	BMB*	62.345	287.255	0.5000
		TOTAL:		62.34	287.25	0.50

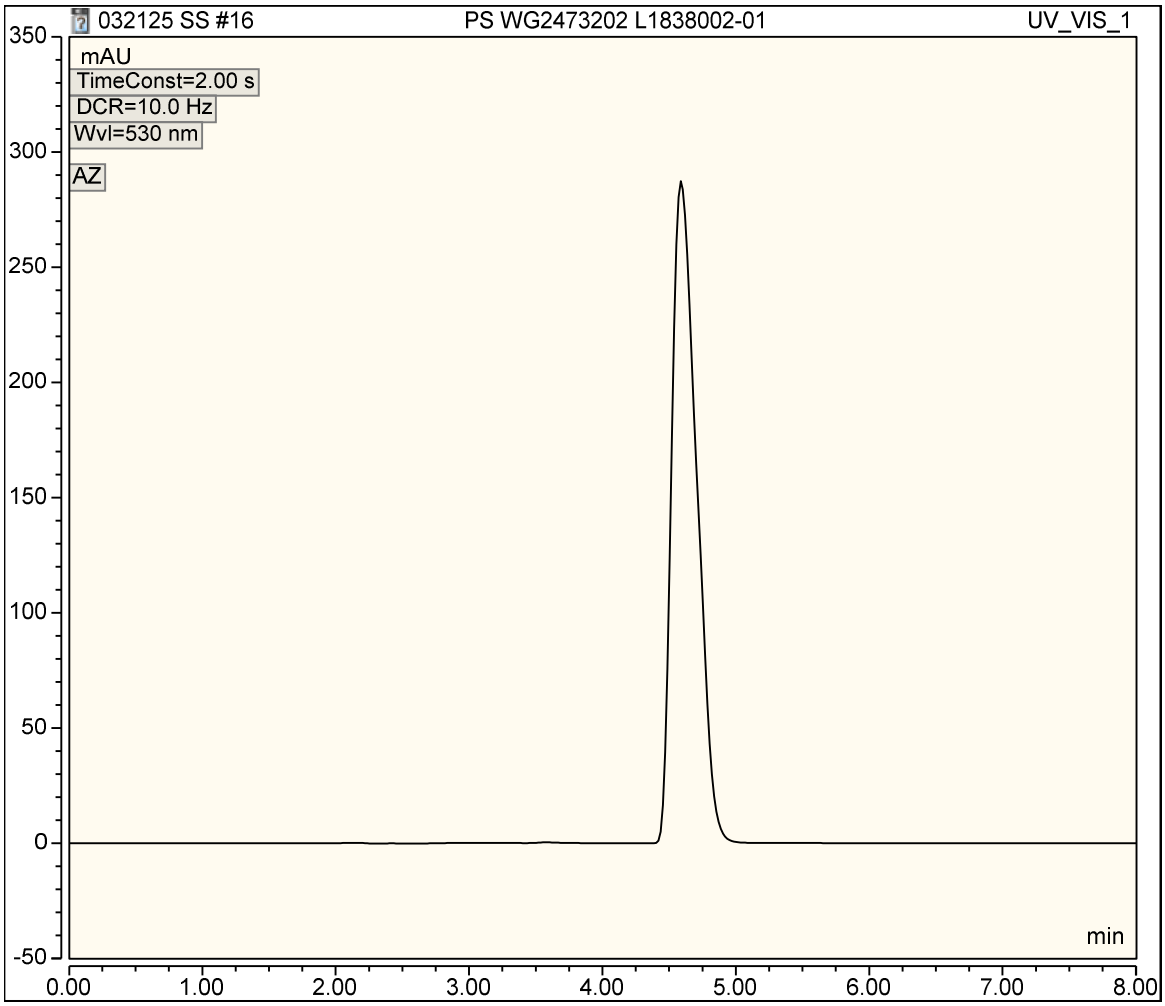


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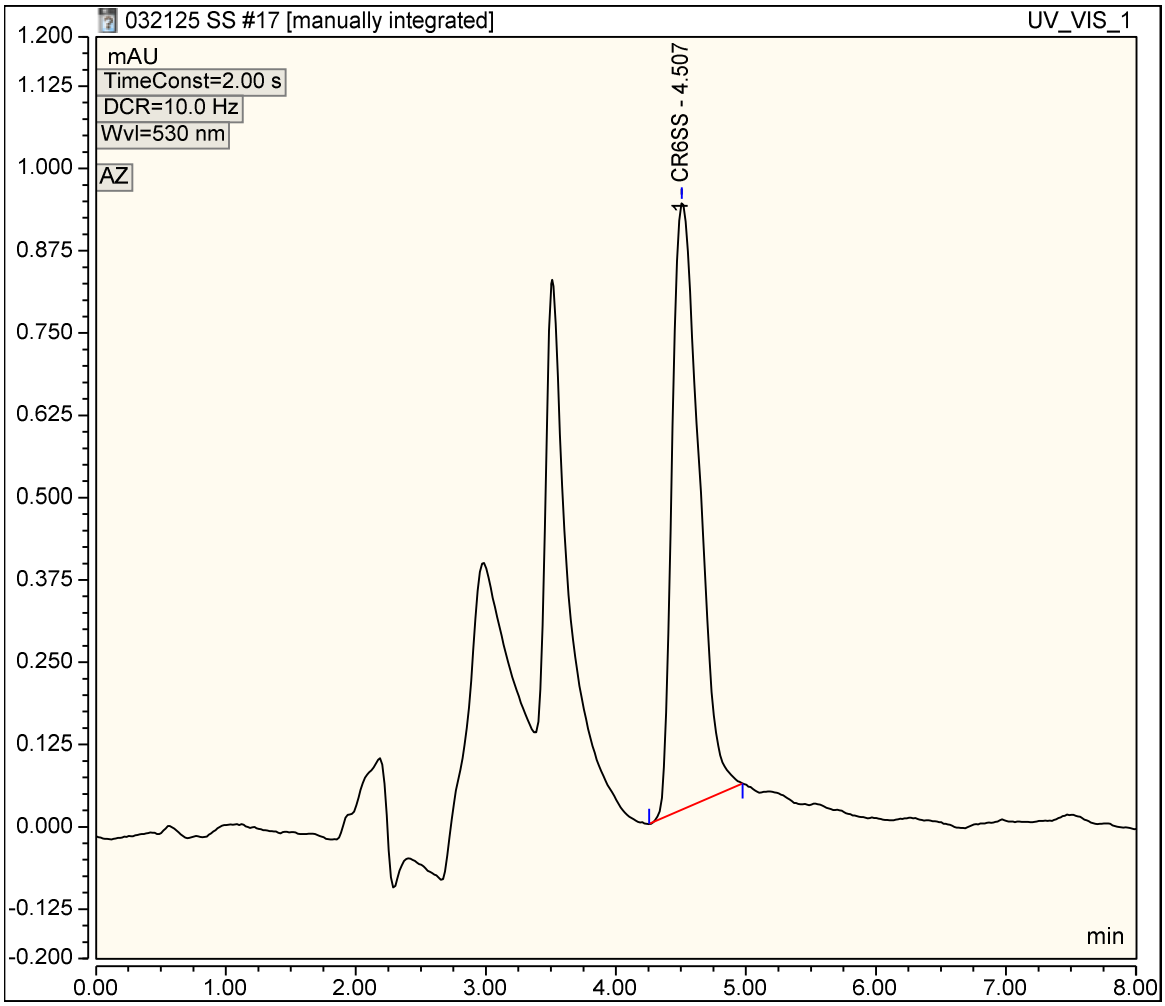
Sample Name:	**PS WG2473202 L1838002-01**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 10:22**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



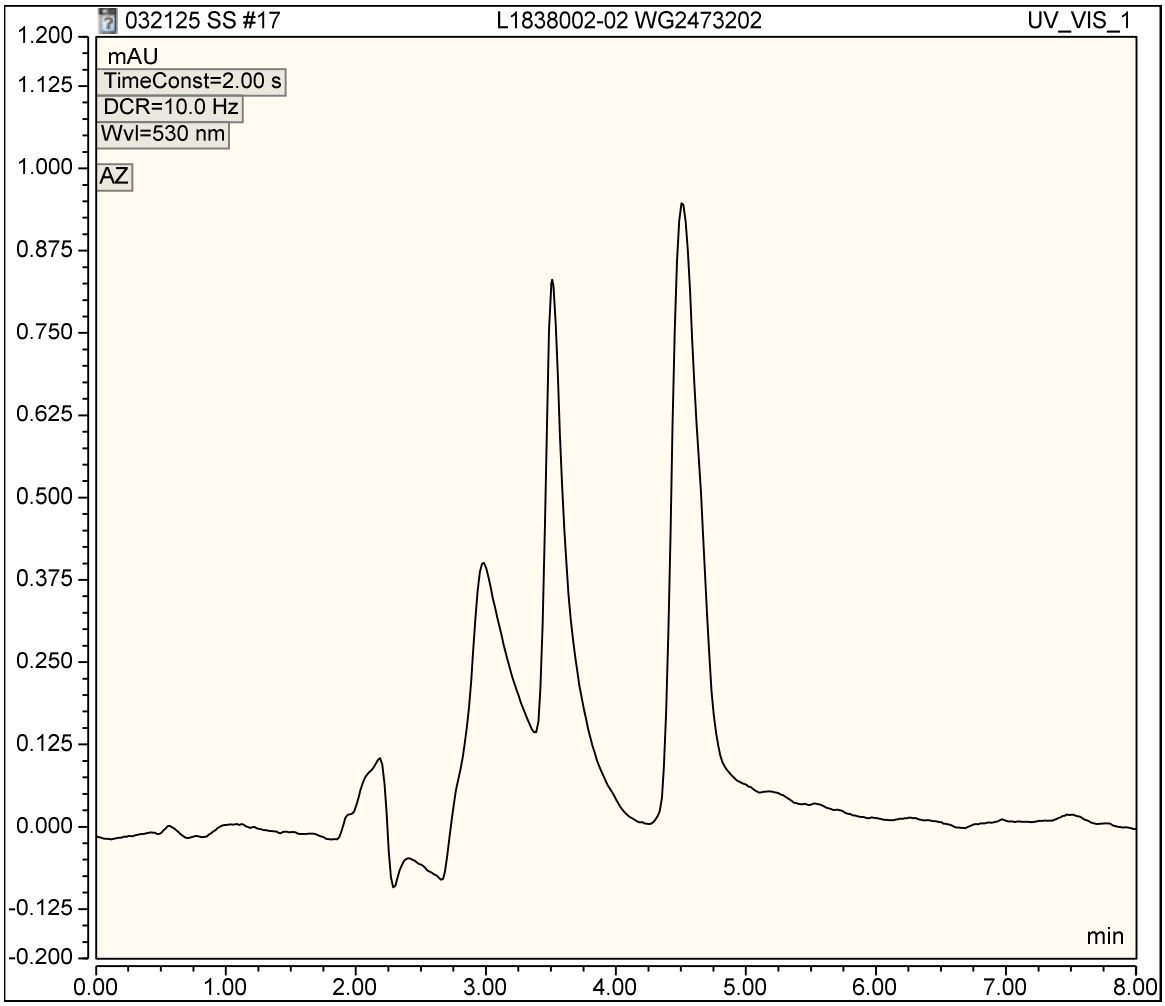
Sample Name:	**L1838002-02 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 10:32**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.51	CR6SS	BMB*	0.221	0.923	0.0003
		TOTAL:		0.22	0.92	0.00



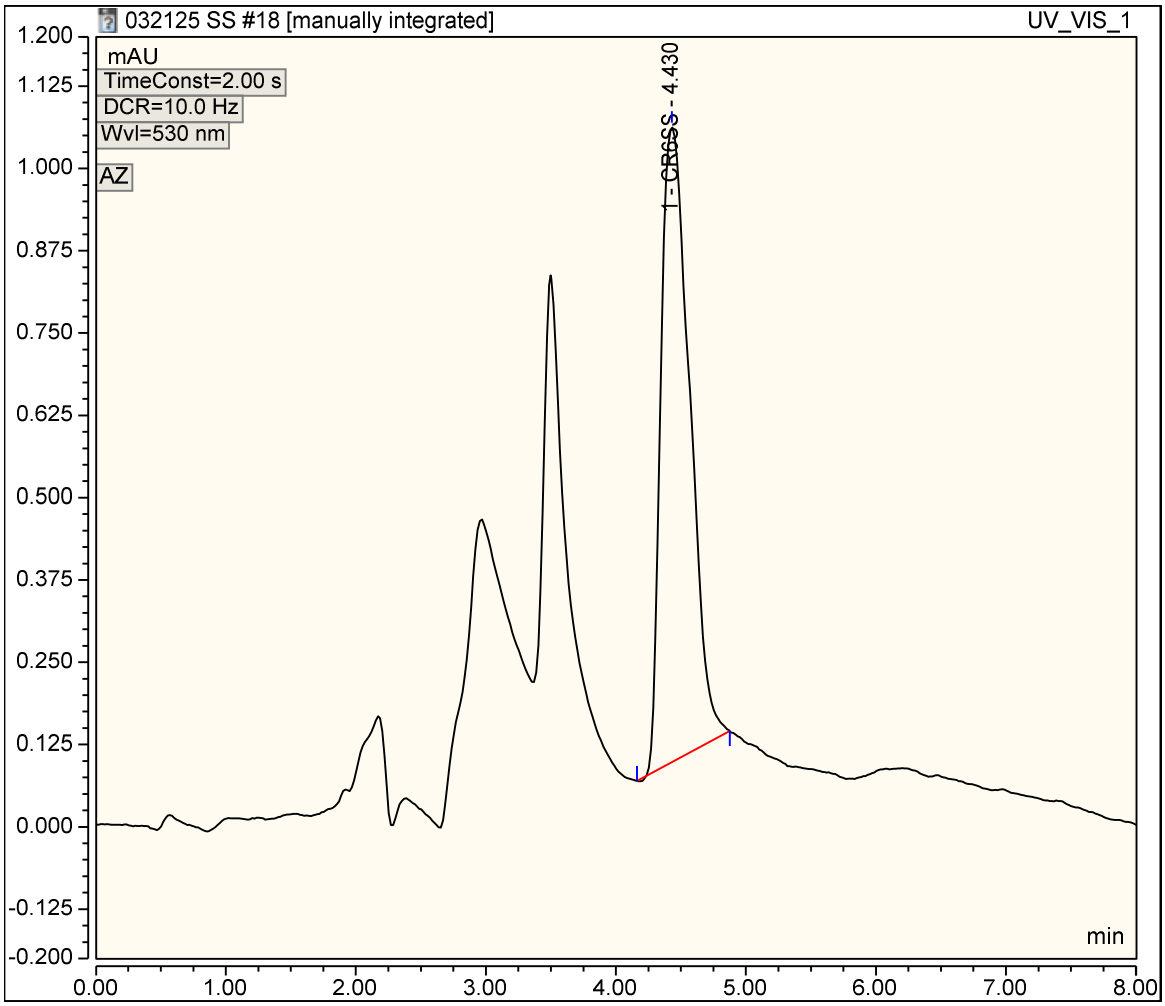
Sample Name:	**L1838002-02 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 10:32**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



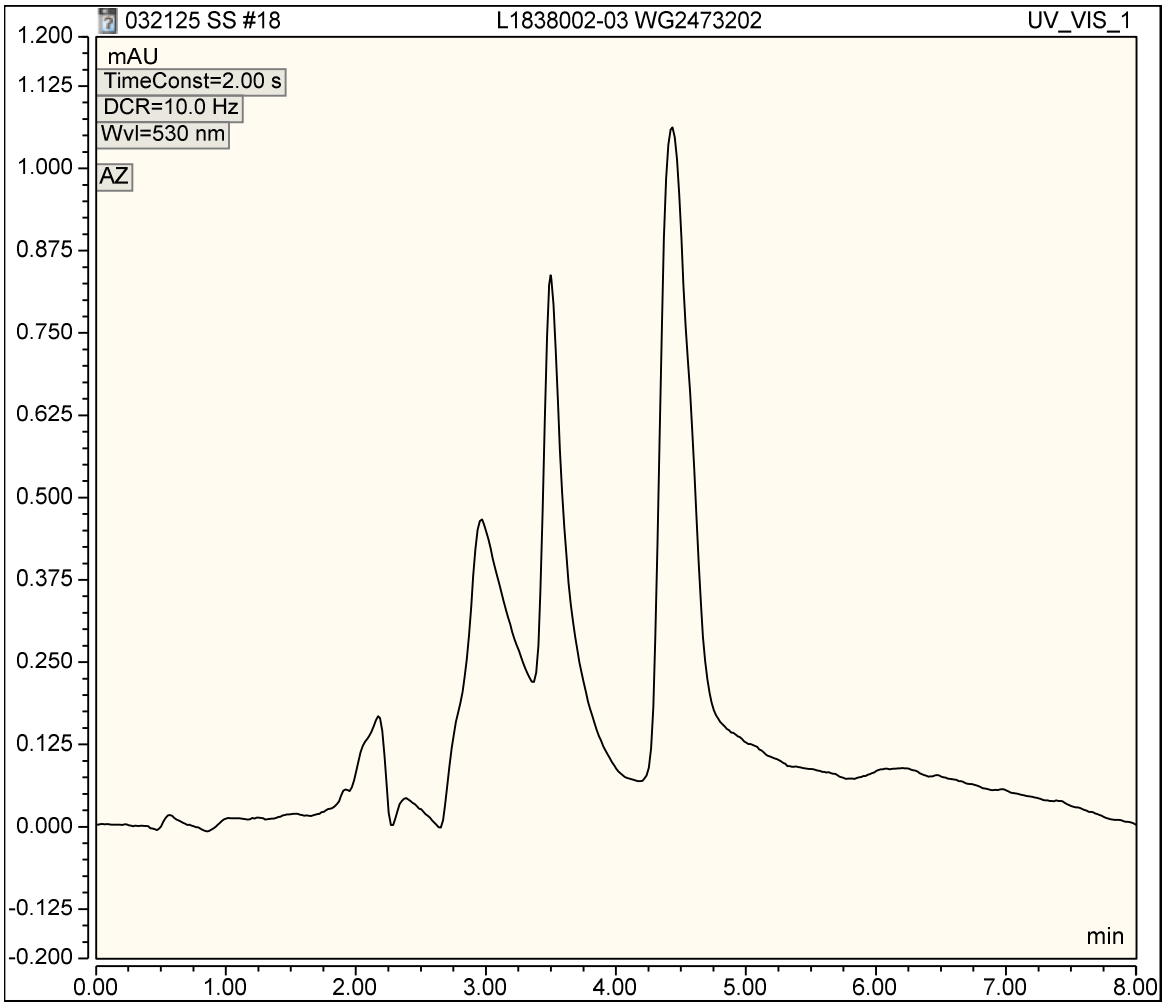
Sample Name:	**L1838002-03 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 10:41**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.43	CR6SS	BMB*	0.248	0.966	0.0005
		TOTAL:		0.25	0.97	0.00



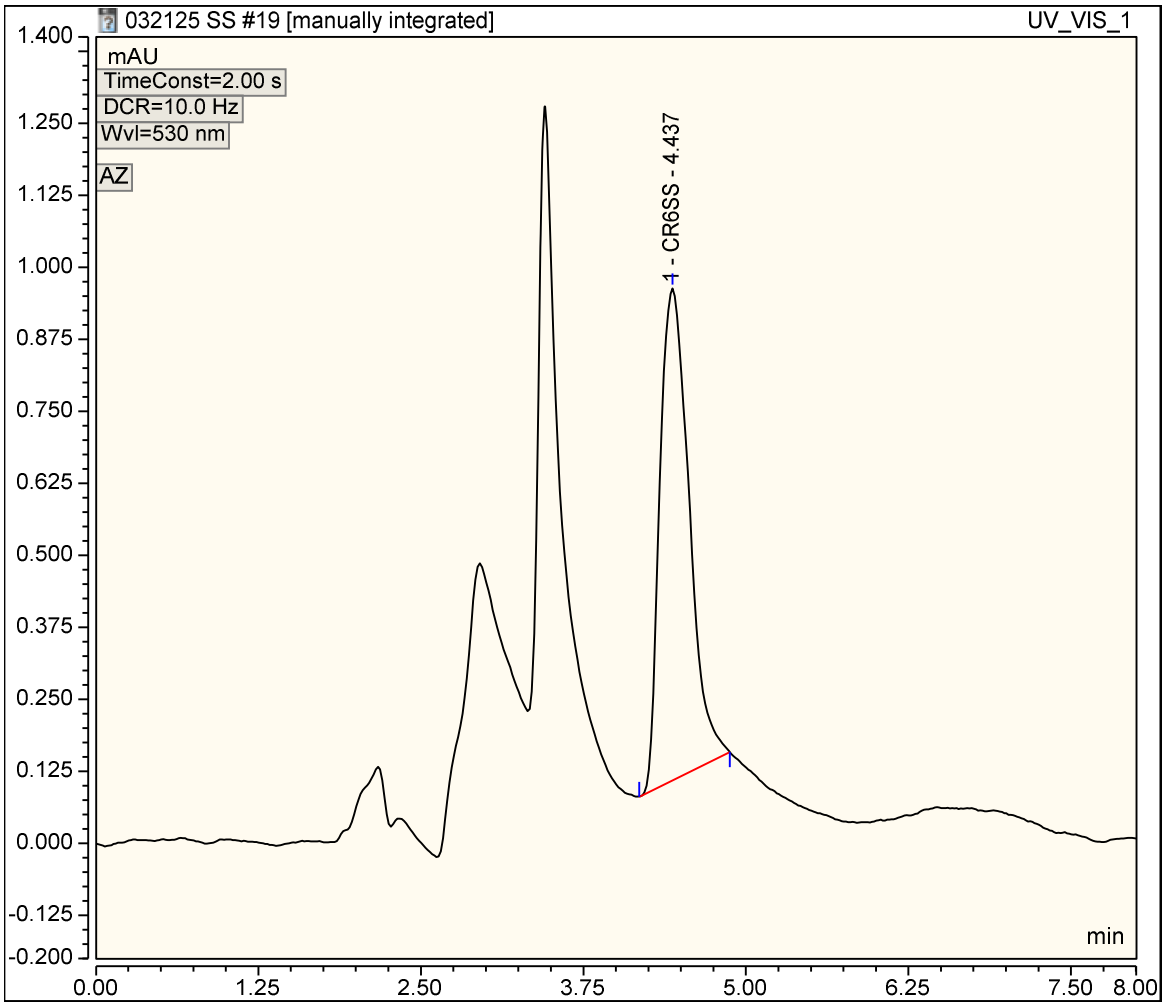
Sample Name:	**L1838002-03 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 10:41**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



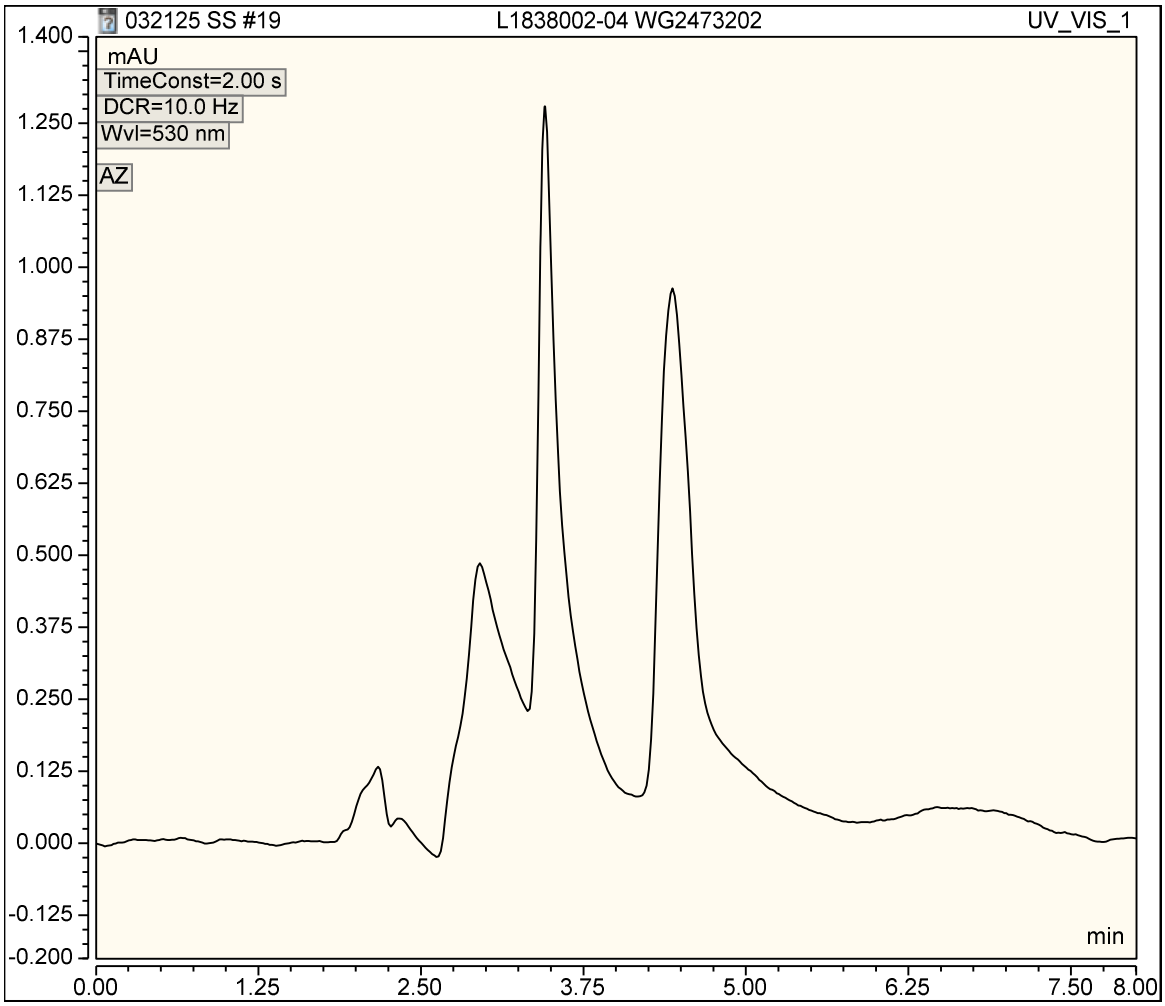
Sample Name:	**L1838002-04 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 10:51**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.44	CR6SS	BMB*	0.223	0.854	0.0003
		TOTAL:		0.22	0.85	0.00



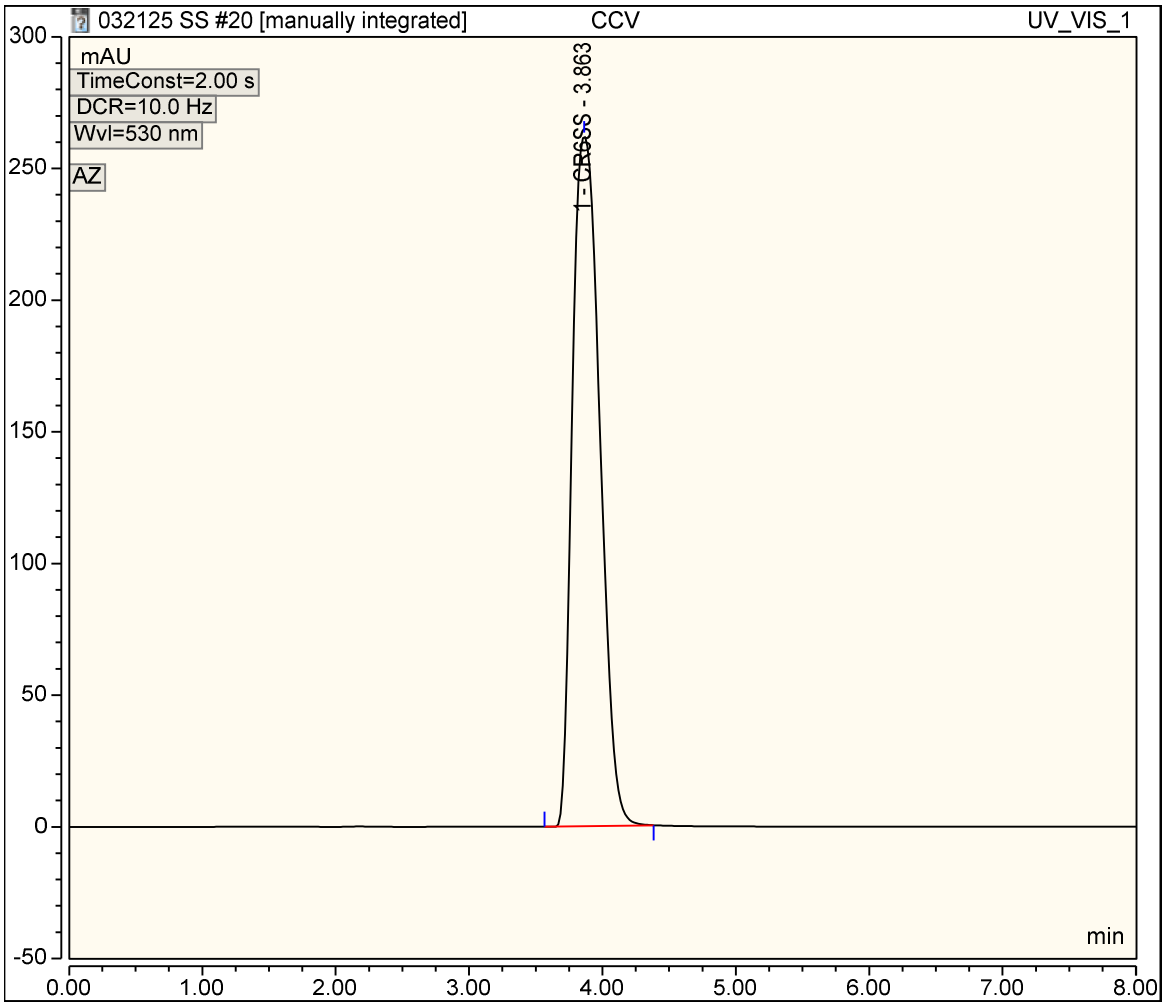
Sample Name:	**L1838002-04 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 10:51**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



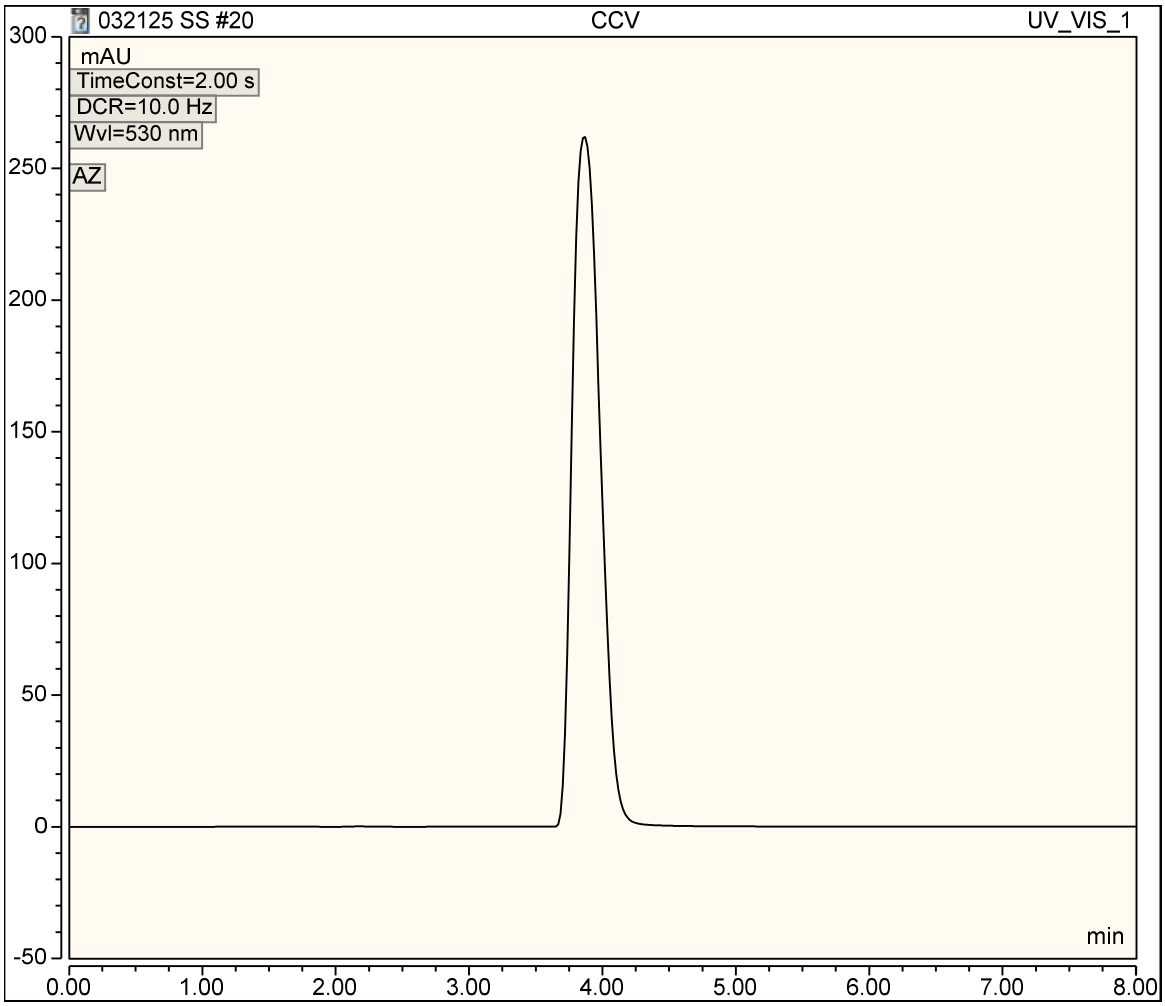
Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 11:01**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.86	CR6SS	BMB*	62.747	262.021	0.5033
		TOTAL:		62.75	262.02	0.50



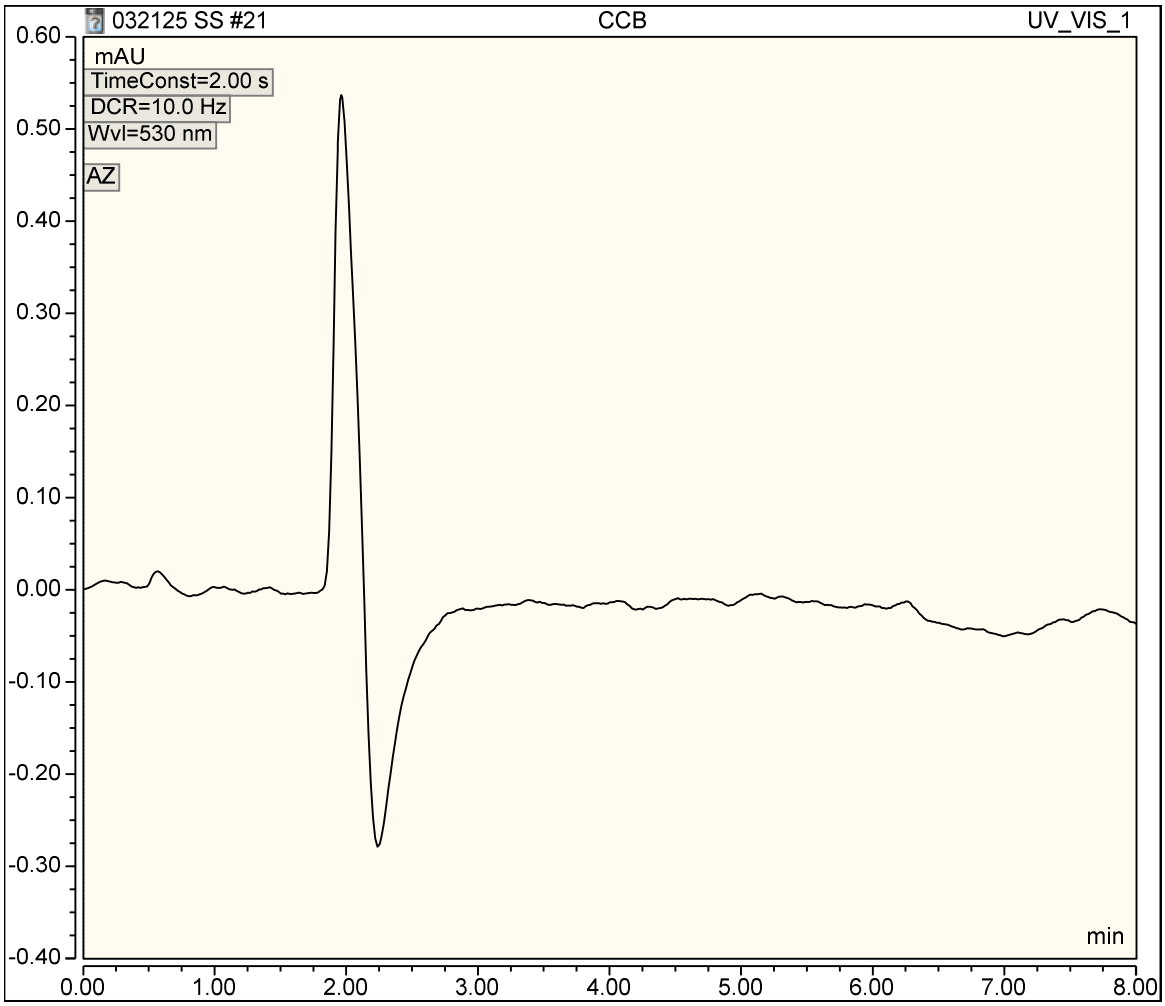
Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 11:01**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



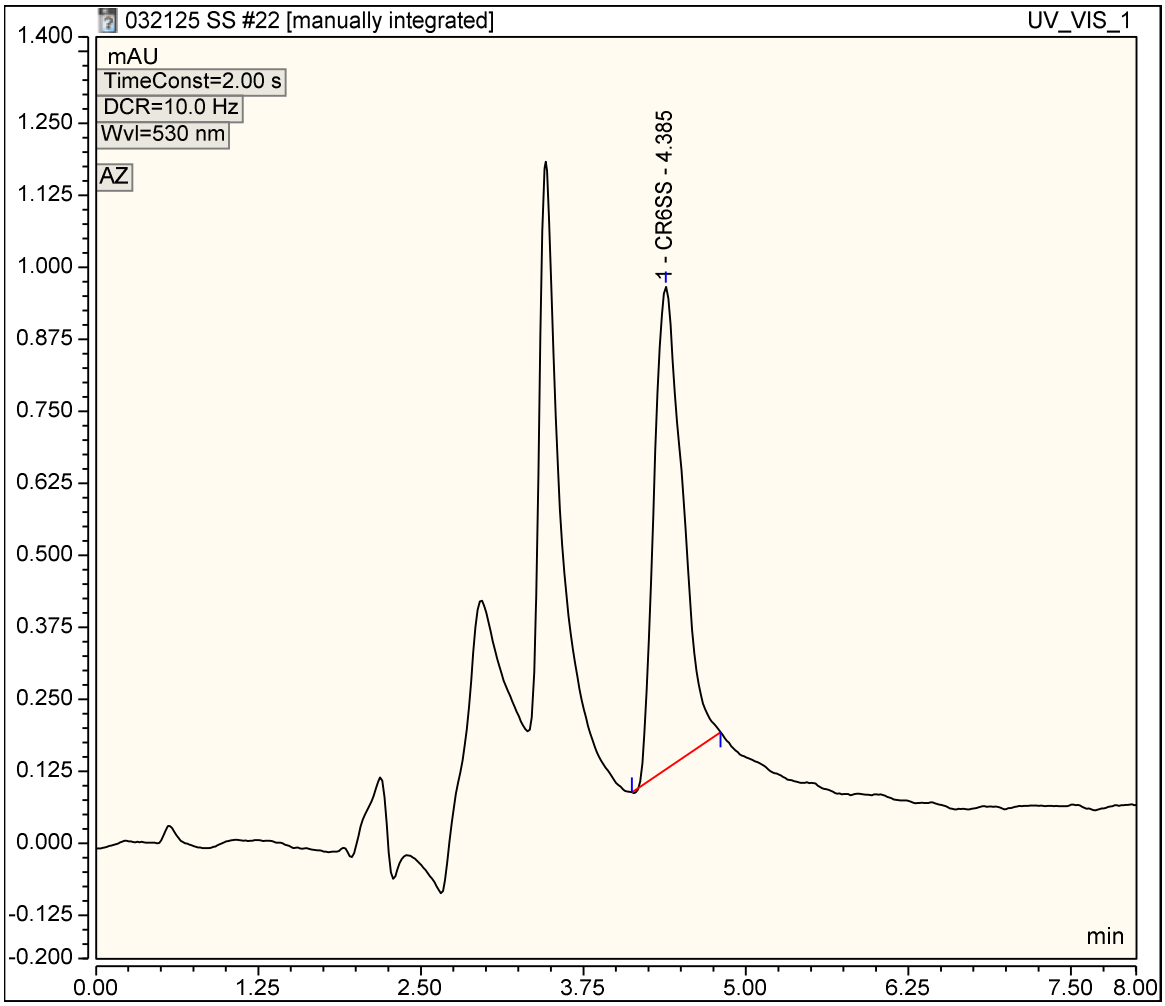
Sample Name:	**CCB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 11:10**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**L1838002-05 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 11:20**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.38	CR6SS	BMB*	0.213	0.838	0.0002
		TOTAL:		0.21	0.84	0.00

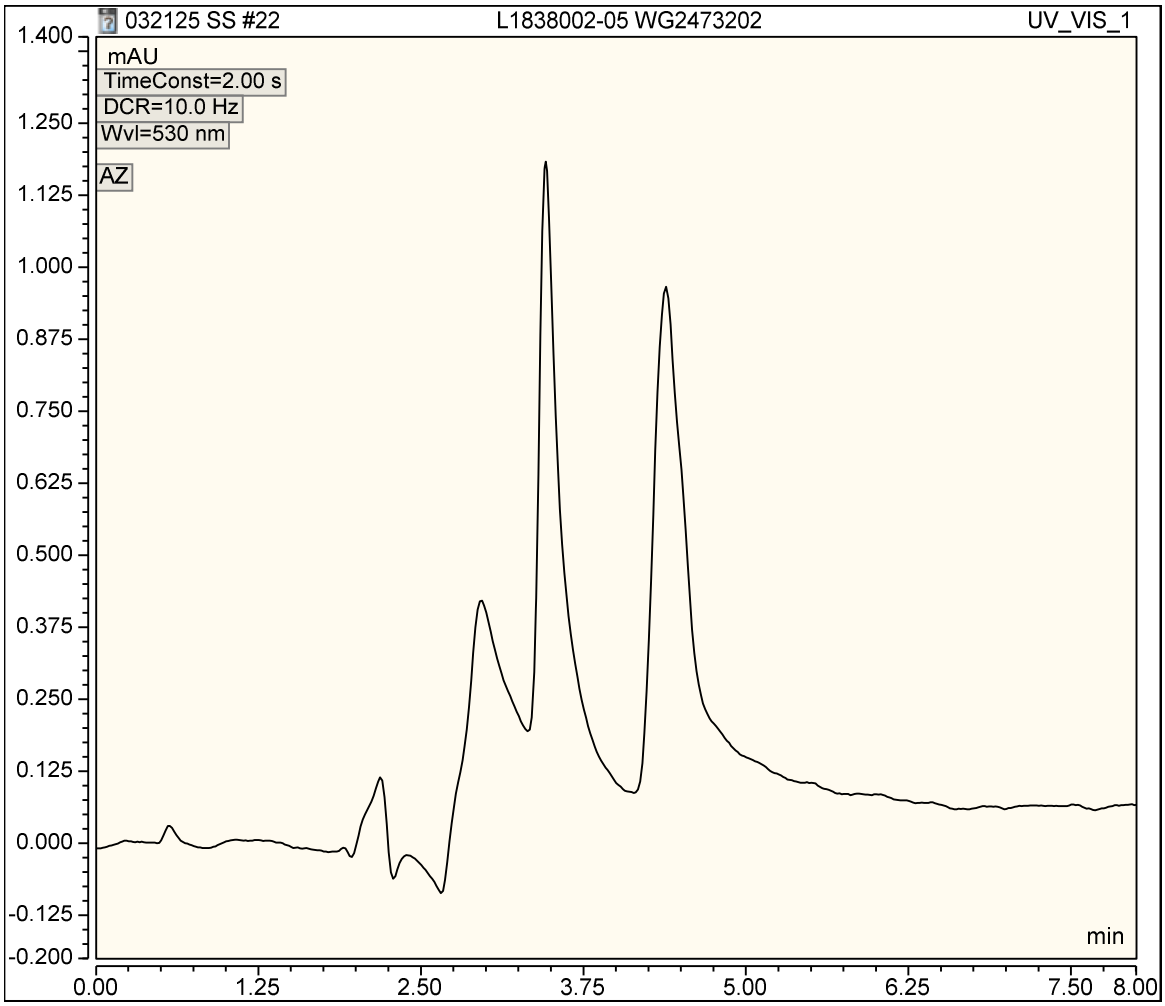


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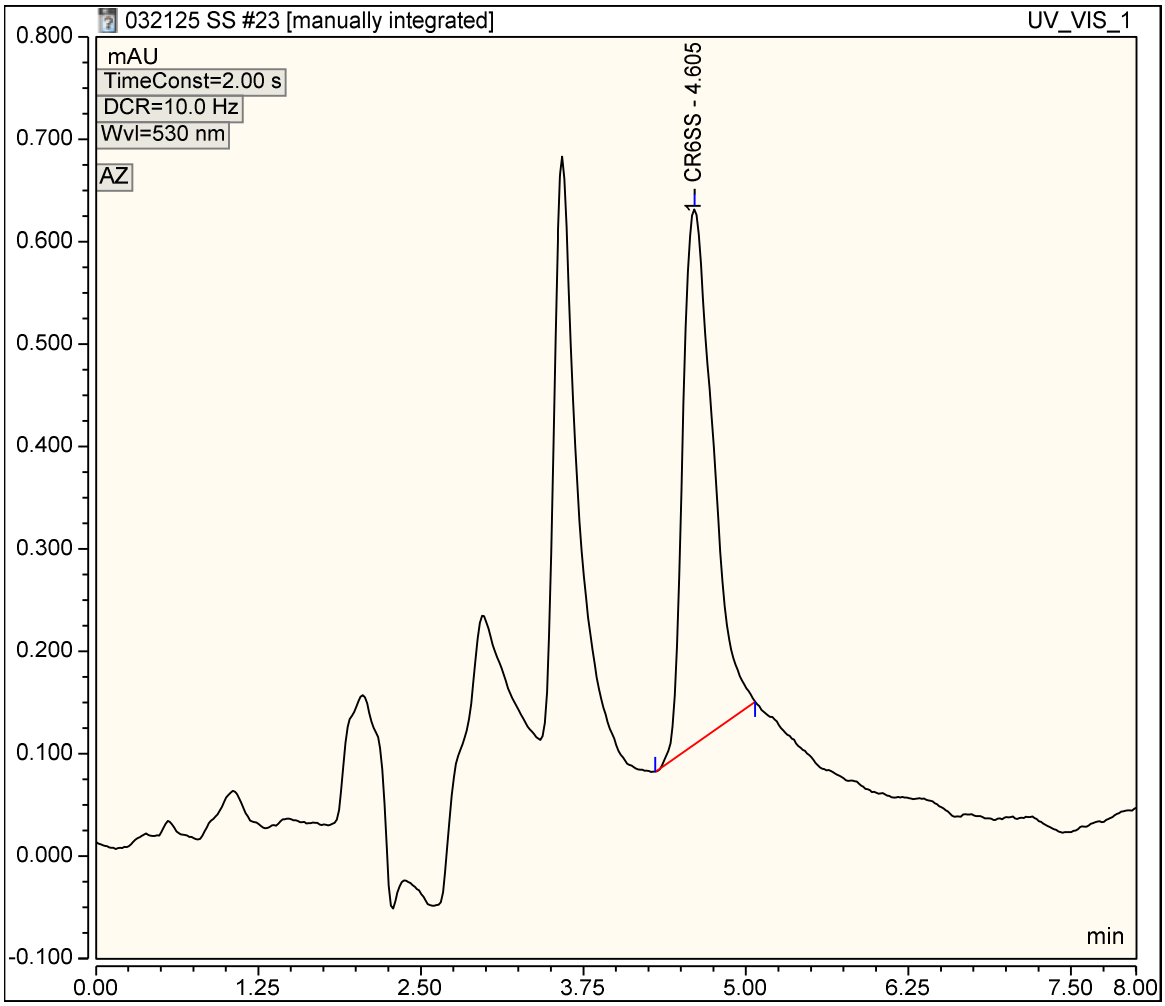
Sample Name:	**L1838002-05 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 11:20**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



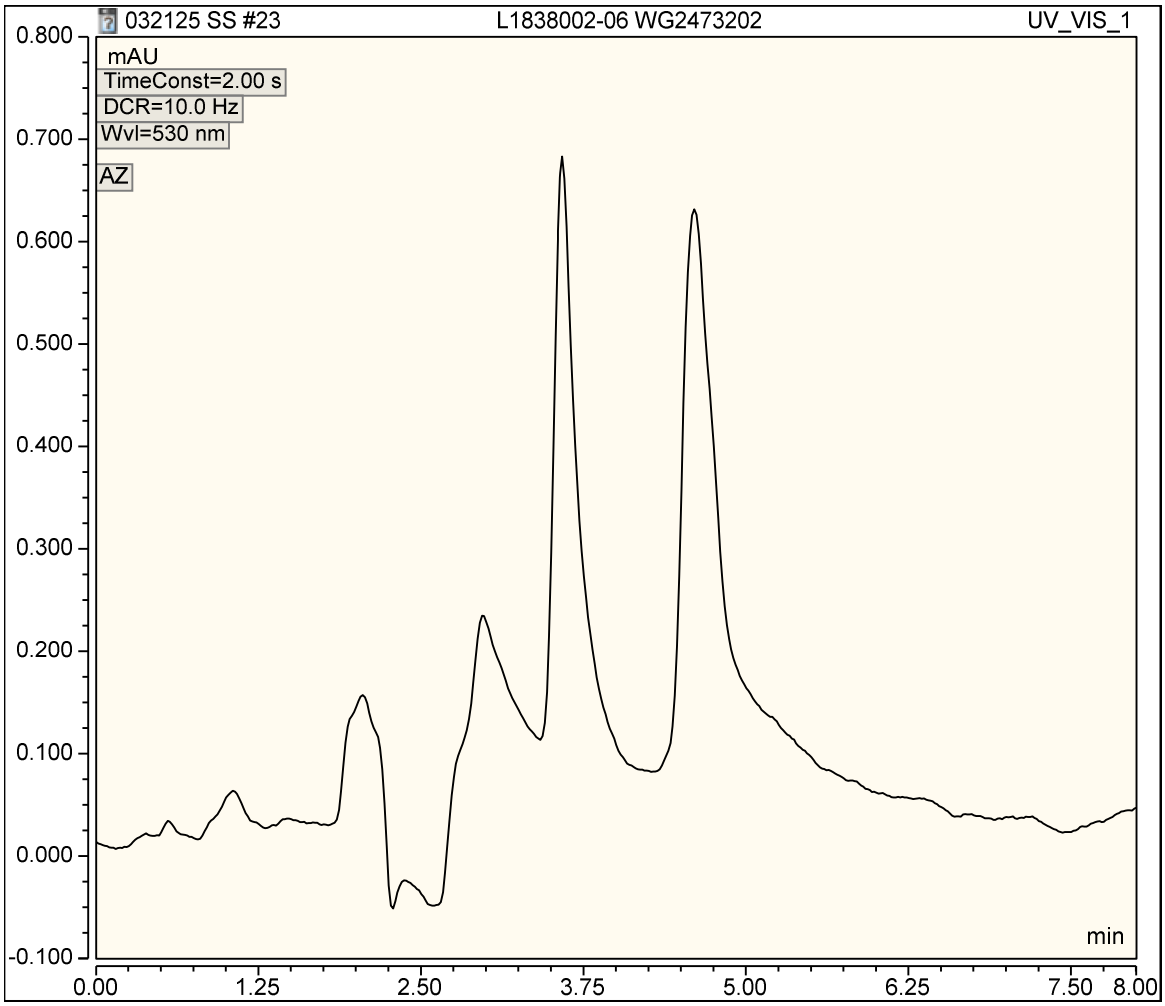
Sample Name:	**L1838002-06 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 11:29**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.60	CR6SS	BMB*	0.140	0.523	n.a.
		TOTAL:		0.14	0.52	0.00



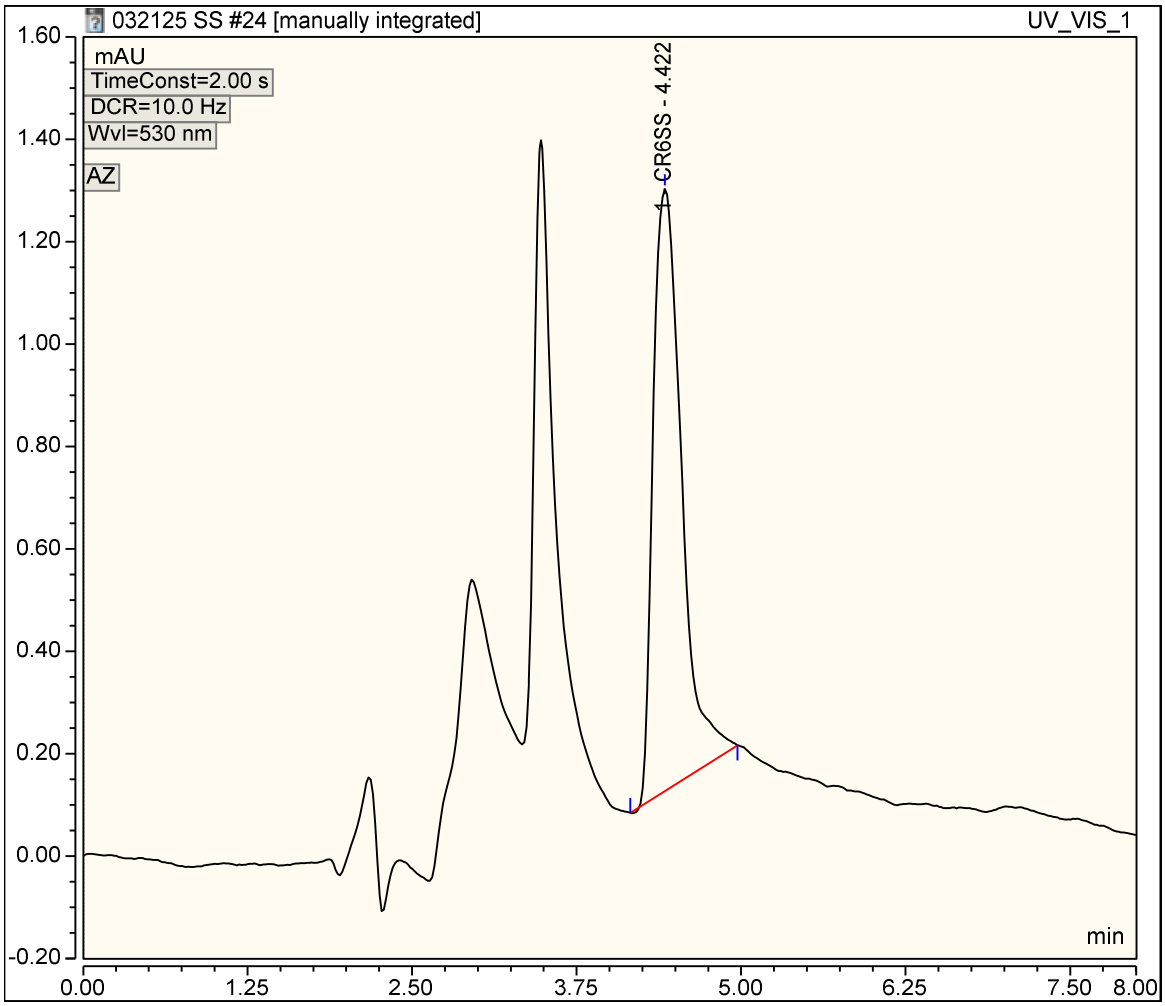
Sample Name:	**L1838002-06 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 11:29**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



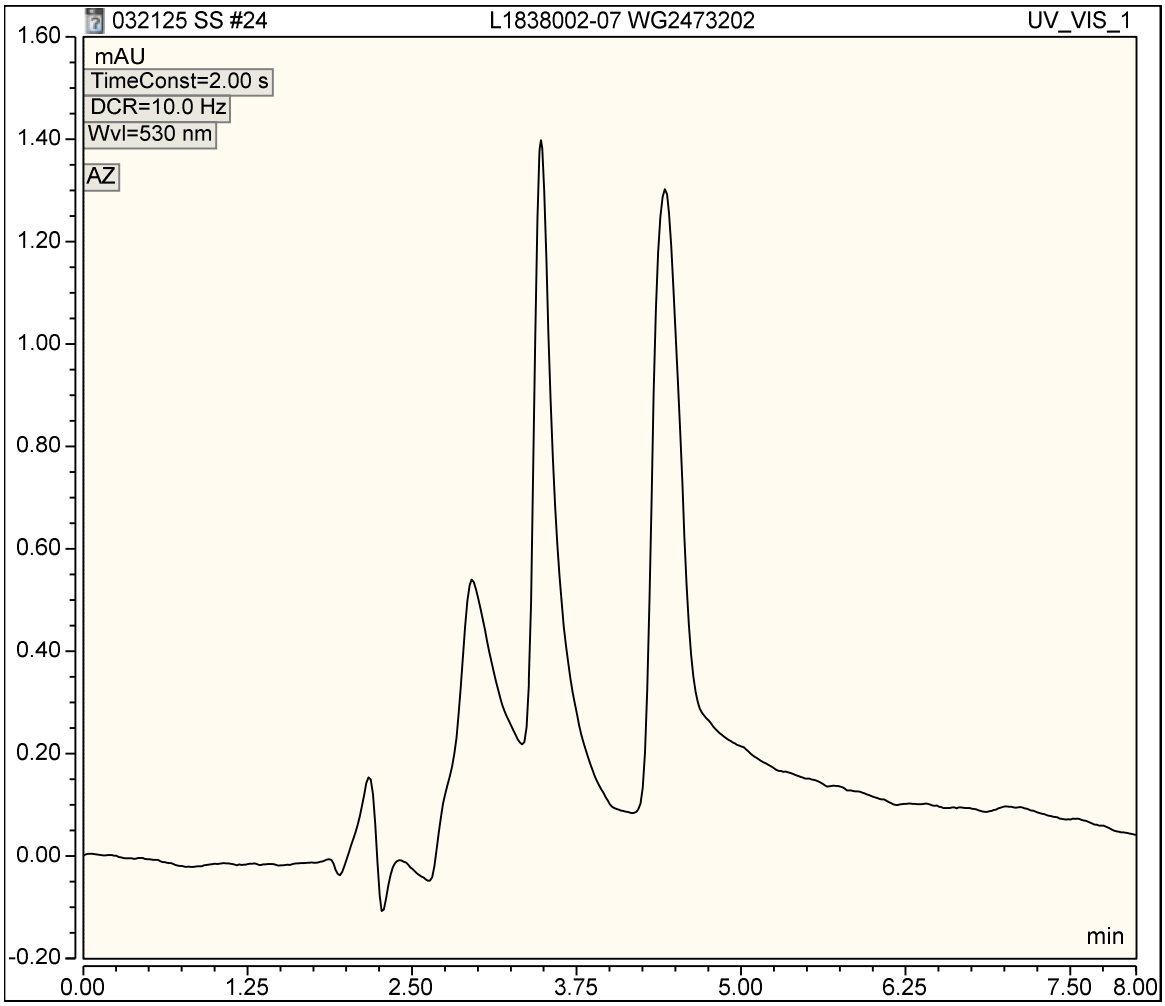
Sample Name:	**L1838002-07 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 11:39**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.42	CR6SS	BMB*	0.294	1.176	0.0008
		TOTAL:		0.29	1.18	0.00



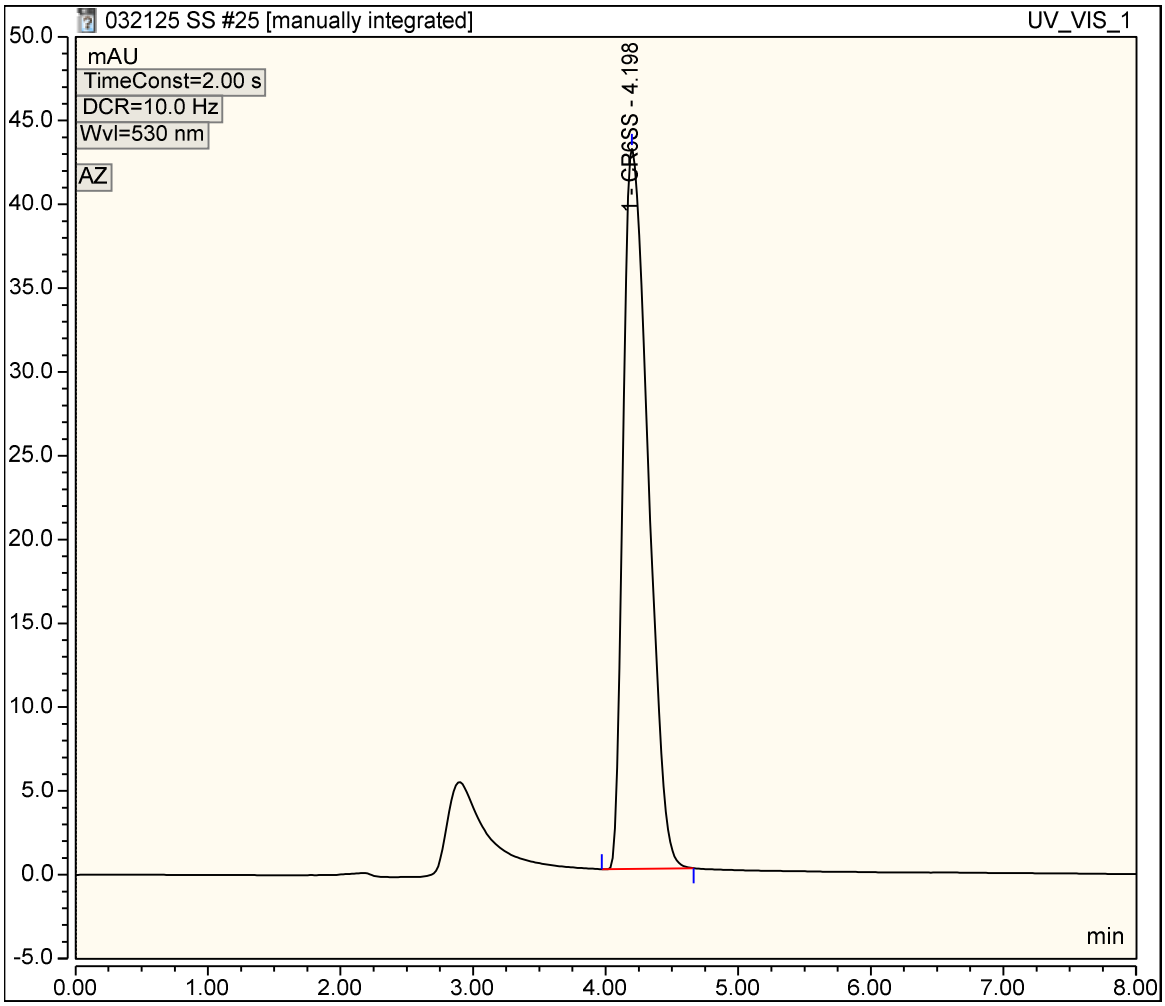
Sample Name:	**L1838002-07 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 11:39**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



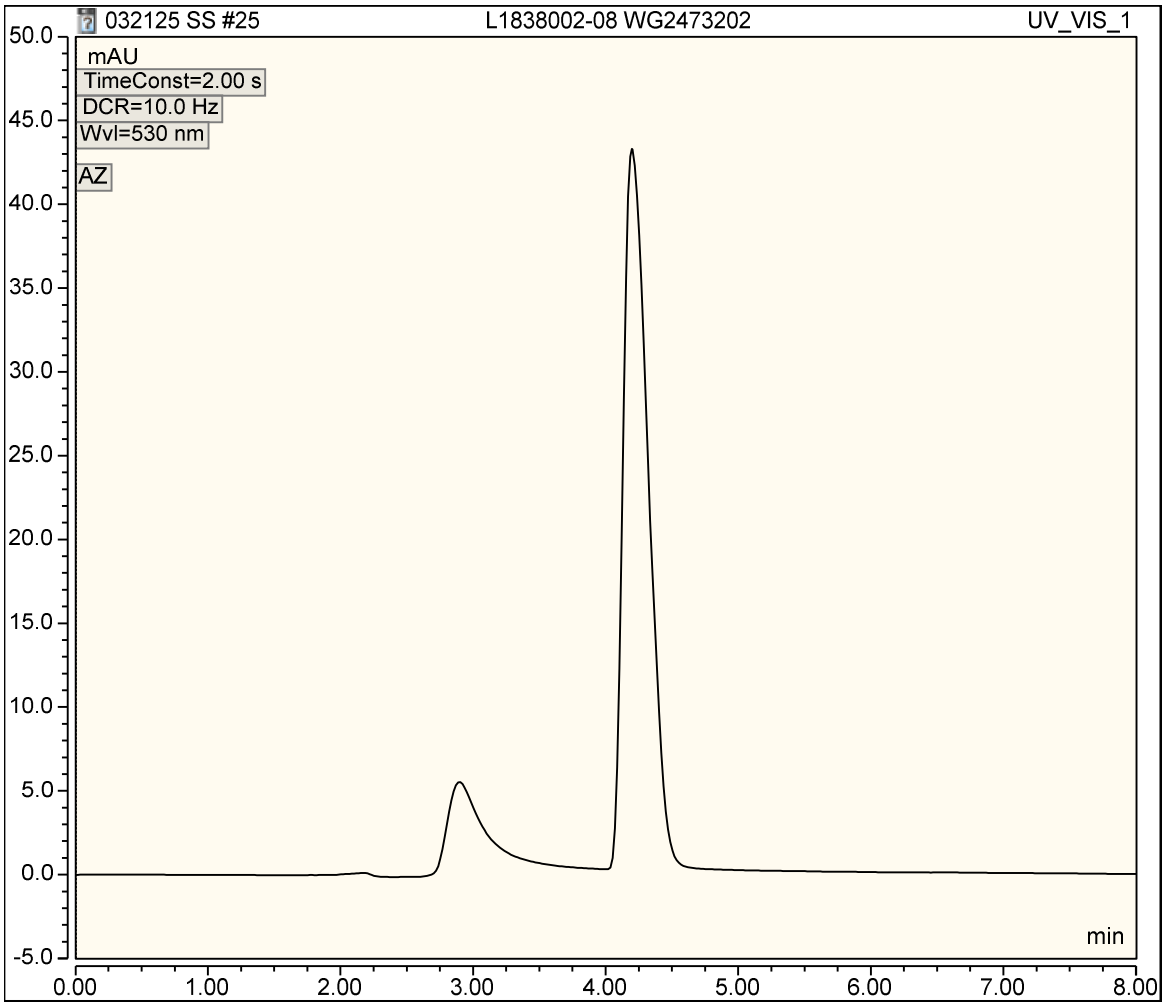
Sample Name:	**L1838002-08 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 11:49**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.20	CR6SS	BMB*	9.414	42.966	0.0742
		TOTAL:		9.41	42.97	0.07



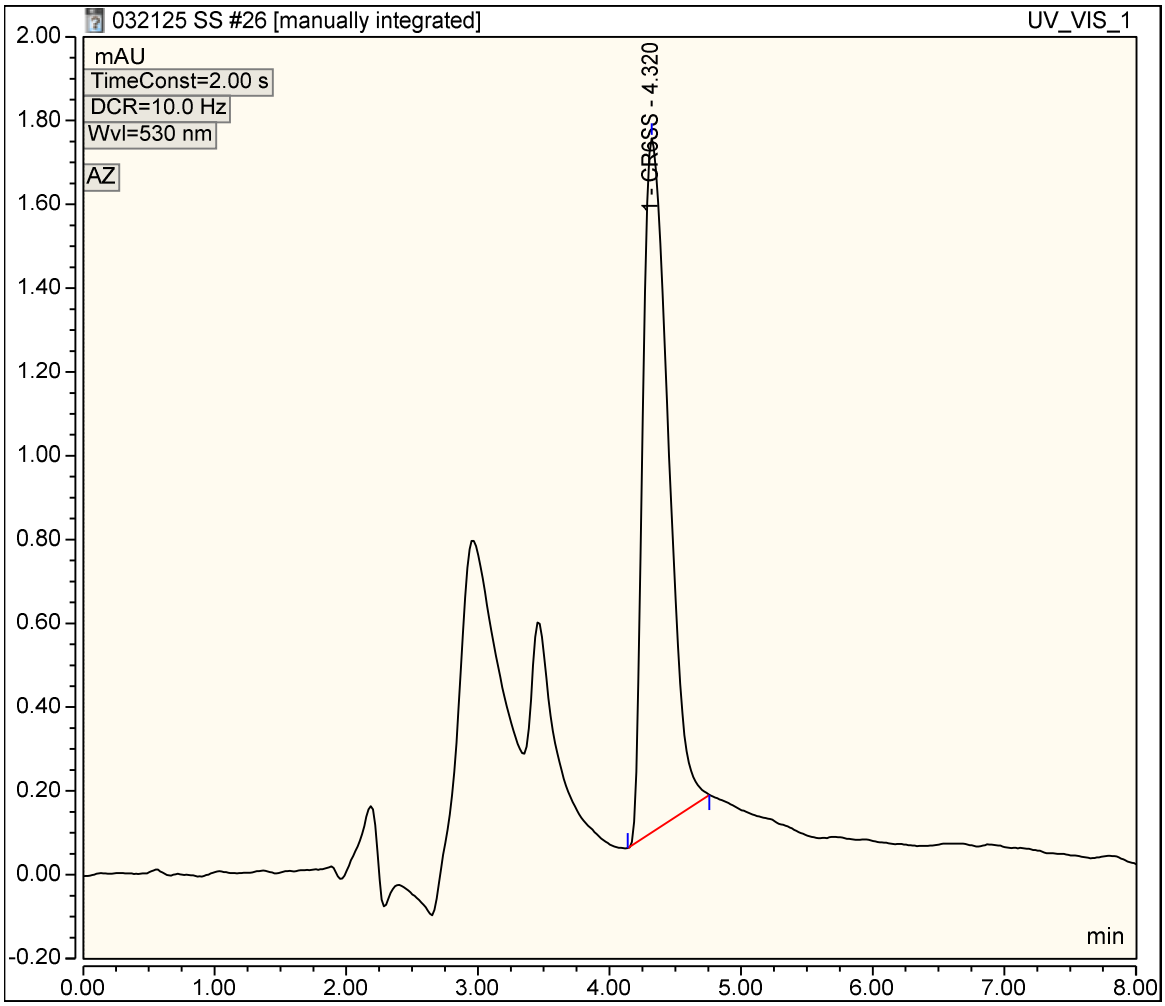
Sample Name:	**L1838002-08 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 11:49**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



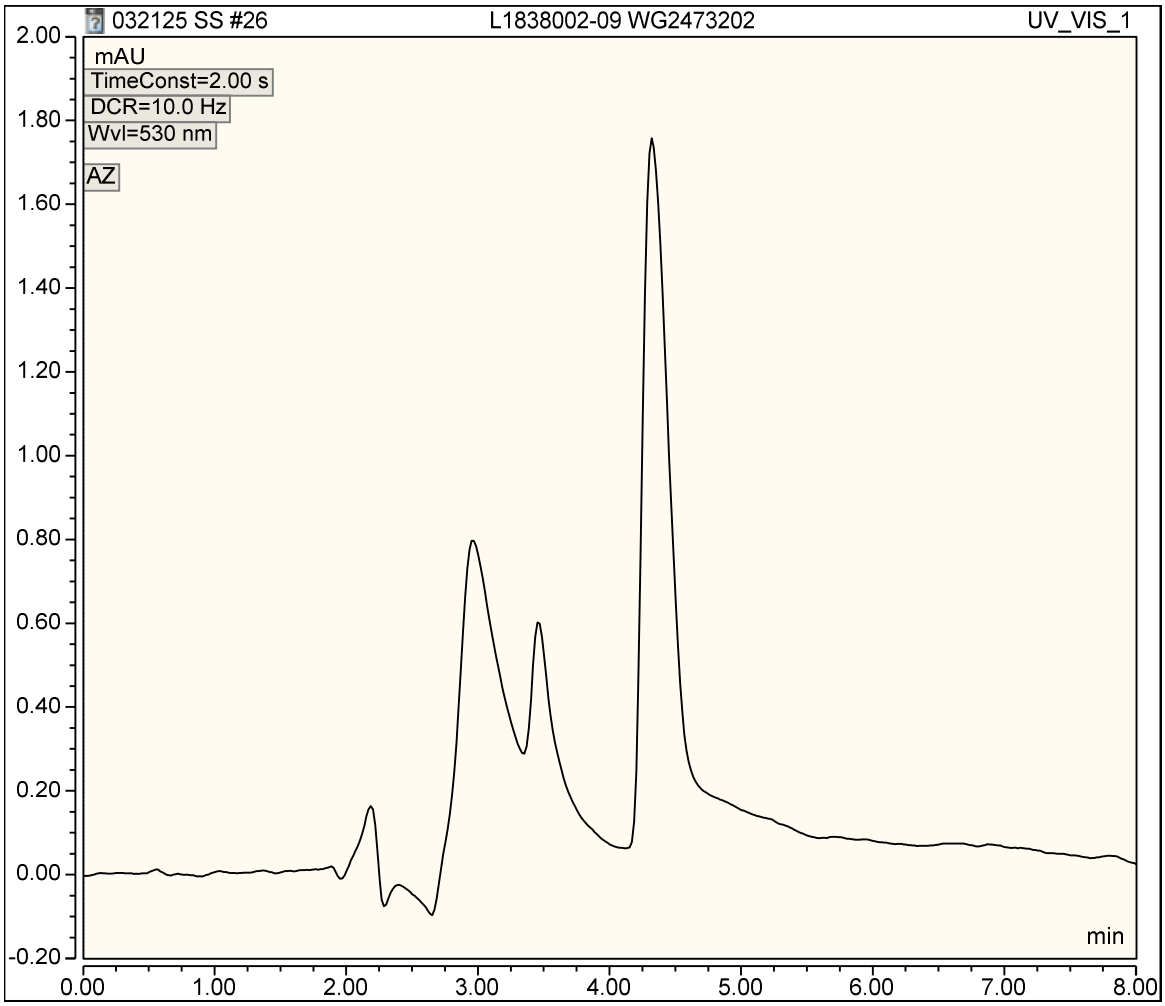
Sample Name:	**L1838002-09 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 11:58**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.32	CR6SS	BMB*	0.373	1.657	0.0015
		TOTAL:		0.37	1.66	0.00



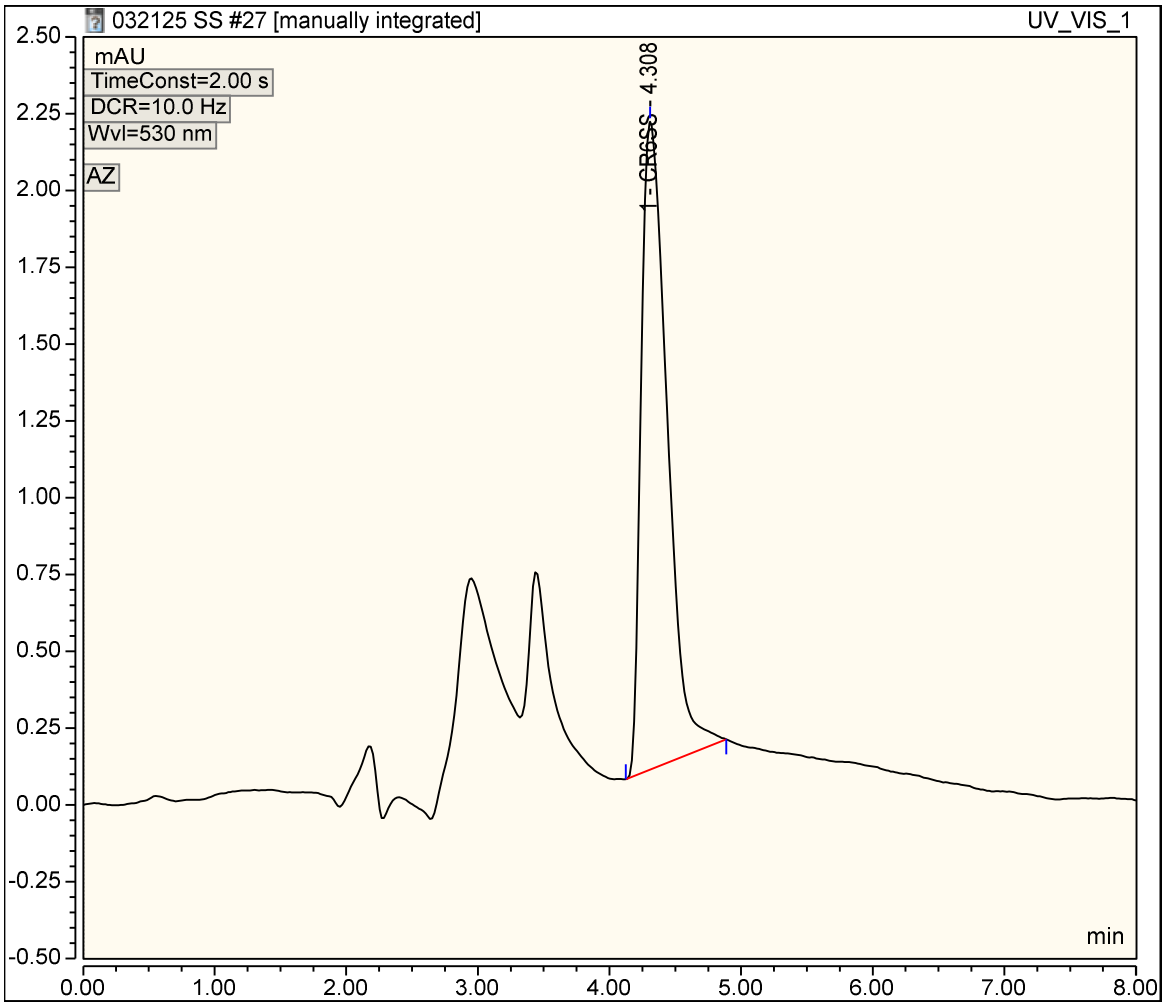
Sample Name:	**L1838002-09 WG2473202**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 11:58**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**DUP WG2473202 L1838002-09**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 12:08**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	4.31	CR6SS	BMB*	0.486	2.108	0.0024
		TOTAL:		0.49	2.11	0.00

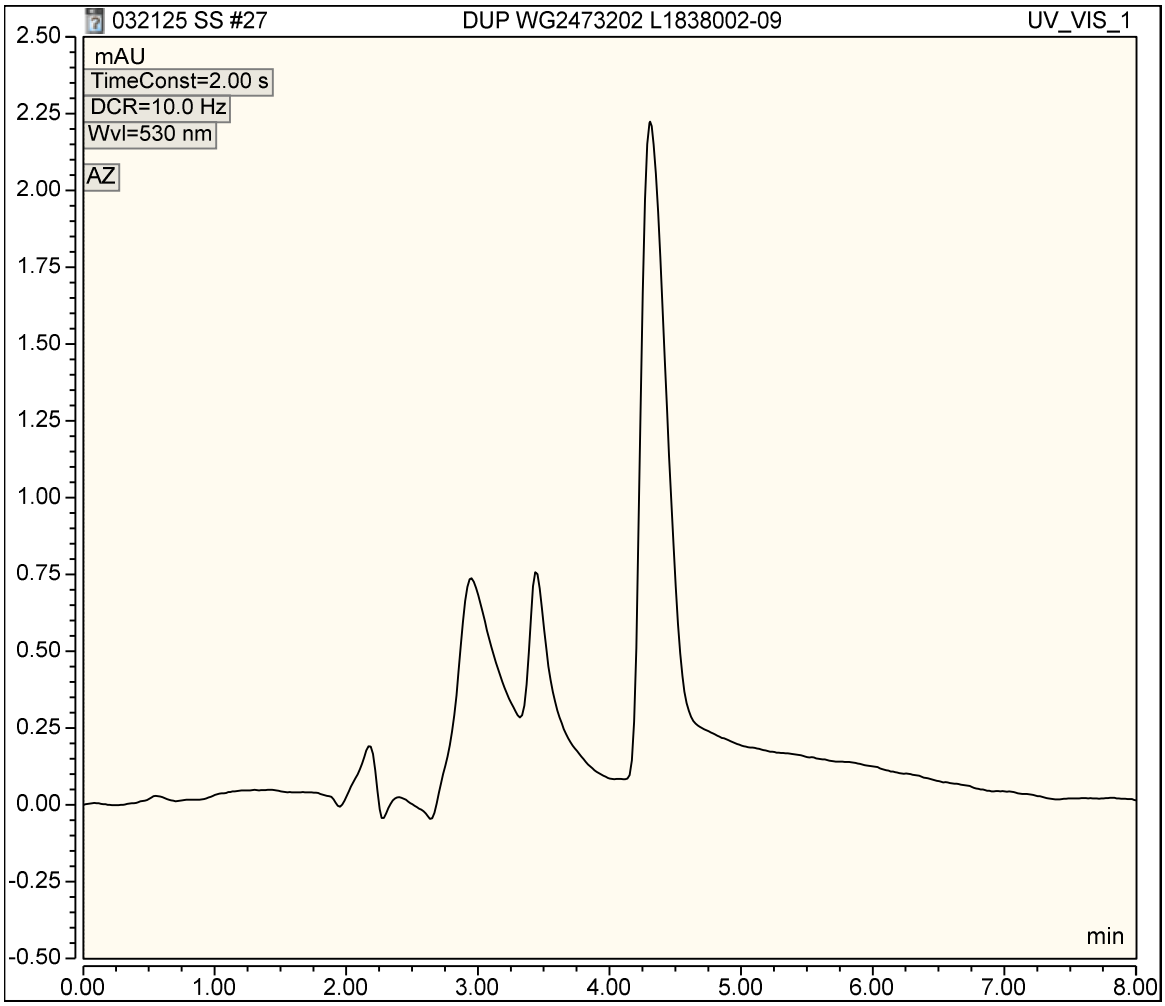


Export for Tree/Integration

PeakNet 6 (r) Dionex 2001
Version 7.2.10.23925

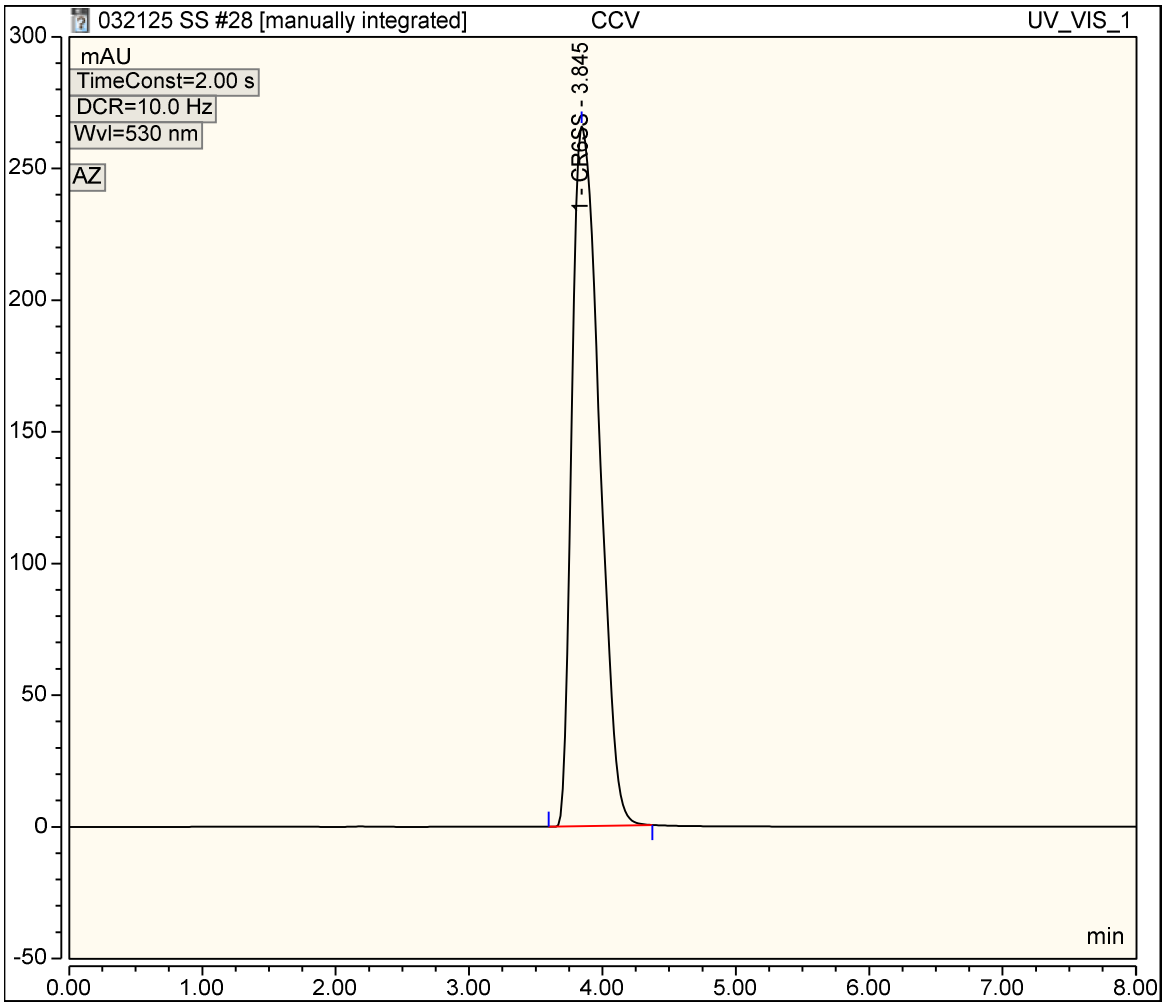
Sample Name:	**DUP WG2473202 L1838002-09**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 12:08**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



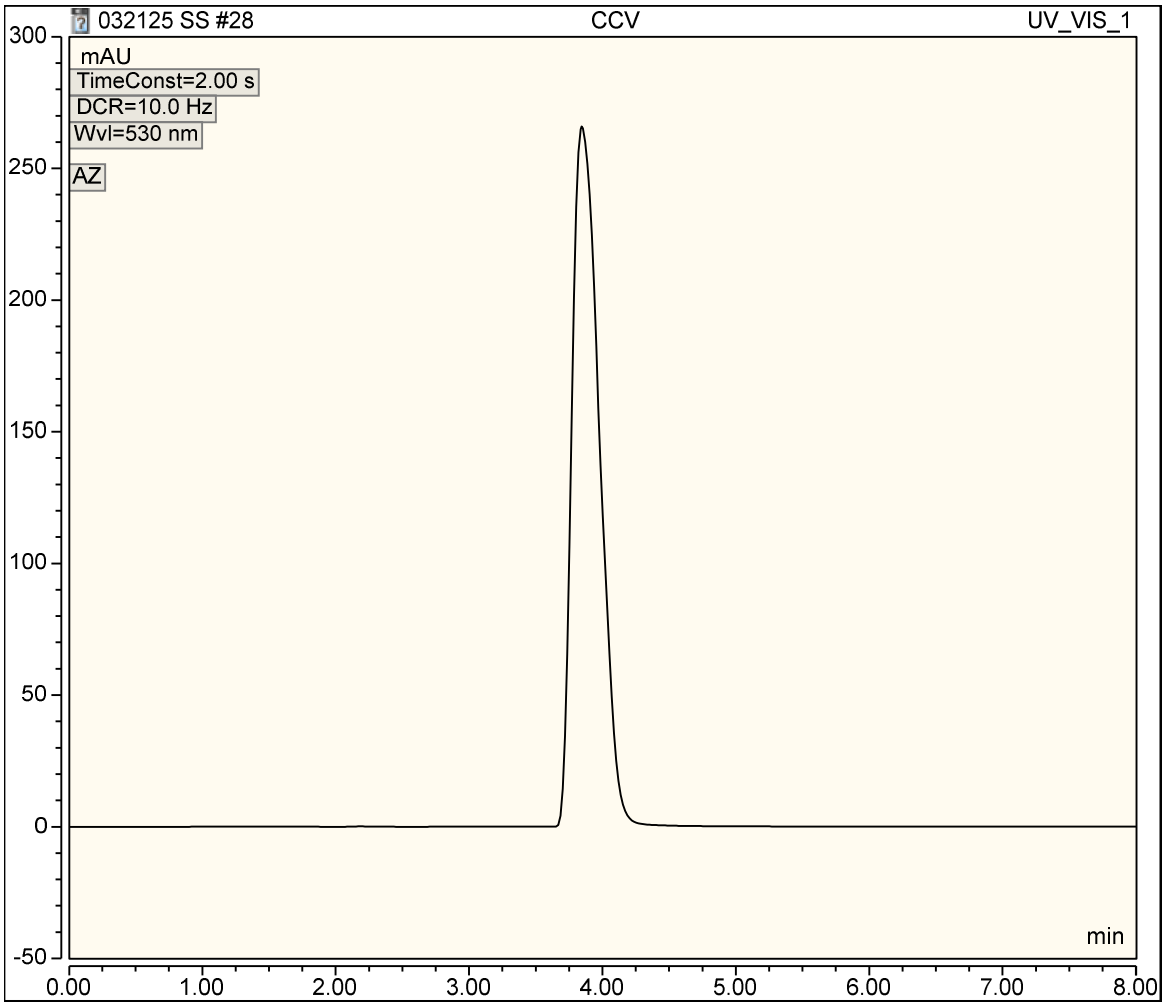
Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	**NI: EKB4186 032125**
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 12:18**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppm
1	3.84	CR6SS	BMB*	63.162	265.645	0.5066
		TOTAL:		63.16	265.65	0.51



Sample Name:	**CCV**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 12:18**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00

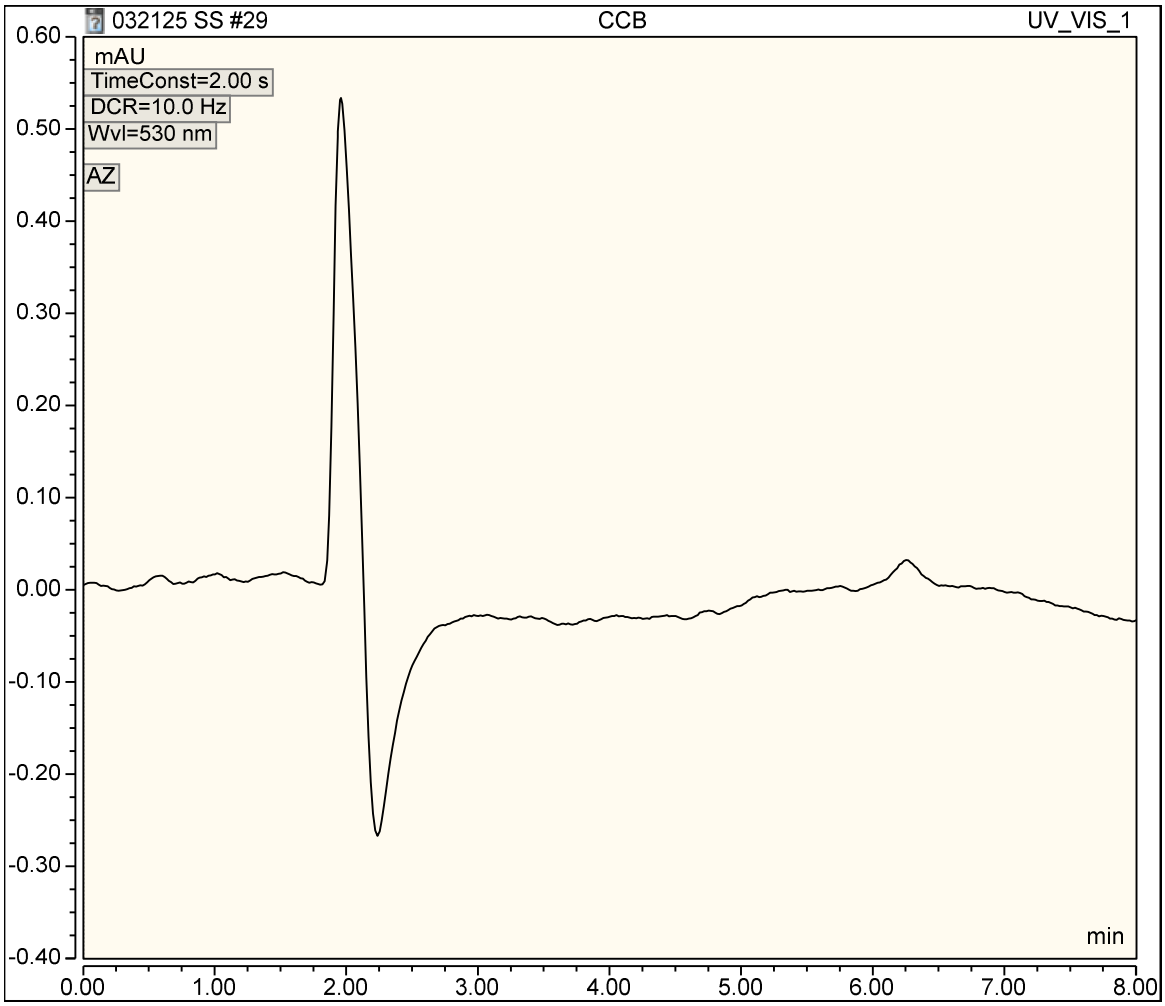


Export for Tree/Integration

PeakNet 6 (r) Dionex 2001
Version 7.2.10.23925

Sample Name:	**CCB**	*Inj. Vol.:*	**250.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
		Comments:	
Program:	**Cr6**	*Operator:*	**WETLABIC25**
Inj. Date/Time:	**03/21/25 12:27**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



CR6IC SS Metals Prep Benchsheet

Batch: WG2473202

Analyst: EKB4186 **Prep Start Date/Time:** 03/20/25 15:38-15:40 **Prep End Date/Time:** 03/21/25 13:06 **Dig Start Date/Time:** 03/20/25 16:31:53
Dig End Date/Time: 03/20/25 17:31:53 **Dig Start Analyst:** EKB4186 **Dig End Analyst:** EKB4186 **Digest Soln. pH:** 13.26 **Phosphate Buffer pH:** 7.54
SOP: MTJL-0201 **Method:** 3060A **Balance ID:** WETBAL13 **Instrument Name:** IC-30 **ICV True Value:** 0.5 ppm **LCS True Value:** 0.25ppm
ALTSTD True Value: 0.25 ppm **MS/D True Value:** 20 mg/kg **Syringe Lot#:** 241125 **0.45 PVDF Filter Lot#:** 329076081 **0.2 Nylon Filter Lot#:** 325116166
10mL Pipette Lot#: 101052037 **5mL Pipette Lot#:** N/A **1mL Auto Pipette SN:** 101109405 **1mL Auto Pipette Tip Lot#:** 24240064
IC Cap/Vial Lot#: 3250-18351/LV24071515-4339-4343 **Thermometer SN:** 914872 **ThermoCorrectFact:** 0.0 **pH Probe SN:** CV1-13153 **pH Metals:** V18914
Tongue Depressor Lot#: P00638 **HotBlock SN/ Therm. Location:** CR6IC A/D4 **Digestion Tube Lot #:** LV2408024-5014-TP **IR Gun ID:** N/A **Cal Reference WG:** -
Uncorr Temp Off: 90 **Uncorr Temp On:** 91 **Corrected Temp Off:** 90 **Corrected Temp On:** 91 **Timer SN:** 240459285

ICV Standard: 25C21296 Amt. Used: 5 mL Exp. Date:03/22/25 **LCS/D Standard:** 25C21288 Amt. Used: 5 mL Exp. Date:03/22/25
MS/D Standard: 25C21288 Amt. Used: 10 mL Exp. Date:03/22/25 **Digestion Solution:** 25C21309 Amt. Used: 50 mL Exp. Date:04/21/25
MgCl2: 24J29807 Amt. Used: 0.20 g Exp. Date:12/12/26 **1.0M Phosphate Solution:** 25C19836 Amt. Used: 0.50 mL Exp. Date:02/27/27
5N HNO3: 25C14220 Exp. Date:06/14/25 **Eluent:** 25C18583 Exp. Date:04/18/25 **Color Reagent:** 25C18587 Exp. Date:03/21/25
PbCrO4: 23E16030 Amt. Used: 0.01 g Exp. Date:04/24/33 **Sand:** 24J29806 Amt. Used: 2.45 g Exp. Date:02/28/28

Sample Number	Initial Sample Wt. (g)	Final Volume (mL)	Dilution Factor	1stTemp/CorrectTemp (C°)	2ndTemp/CorrectTemp (C°)	Final Adjusted pH	Date/Time pH adj.	Review Analyst	Review Date
BLANK	2.50	100	1	90/90	91/91	9.39	032025/2339	EKB4186	03/21/25 13:07:46
LCS	2.52	100	1	90/90	91/91	9.03	032025/2339	EKB4186	03/21/25 13:07:46
DUP(L1838002-09)	2.51	100	1	90/90	91/91	9.32	032025/2339	EKB4186	03/21/25 13:07:46
MS(L1838002-01)	2.53	100	1	90/90	91/91	9.06	032025/2339	EKB4186	03/21/25 13:07:46
MSD(L1838002-01)	2.53	100	1	90/90	91/91	9.20	032025/2339	EKB4186	03/21/25 13:07:46
Ins MS(L1838002-01)	2.54	100	1	90/90	91/91	9.32	032025/2339	EKB4186	03/21/25 13:07:46
1. L1838002-01	2.45	100	1	90/90	91/91	9.32	032025/2339	EKB4186	03/21/25 13:07:46
2. L1838002-02	2.52	100	1	90/90	91/91	9.19	032025/2339	EKB4186	03/21/25 13:07:46
3. L1838002-03	2.46	100	1	90/90	91/91	9.11	032025/2339	EKB4186	03/21/25 13:07:46
4. L1838002-04	2.49	100	1	90/90	91/91	9.05	032025/2339	EKB4186	03/21/25 13:07:46
5. L1838002-05	2.54	100	1	90/90	91/91	9.15	032025/2339	EKB4186	03/21/25 13:07:46
6. L1838002-06	2.47	100	1	90/90	91/91	9.41	032025/2339	EKB4186	03/21/25 13:07:46
7. L1838002-07	2.53	100	1	90/90	91/91	9.47	032025/2339	EKB4186	03/21/25 13:07:46
8. L1838002-08	2.47	100	1	90/90	91/91	9.21	032025/2339	EKB4186	03/21/25 13:07:46
9. L1838002-09	2.52	100	1	90/90	91/91	9.33	032025/2339	EKB4186	03/21/25 13:07:46

Comments:

Reviewed By: EKB4186 on 03/21/25 13:07:46

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Coef1	First Order Coefficient.
Coef2	Second Order Coefficient.
Corr.	Correlation Coefficient.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Incpt	Intercept.
Mass	Mass of parameter.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RSD	Relative Standard Deviation.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Wavelength	Wavelength of parameter.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

GLOSSARY OF TERMS

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

I

Company Name/Address:	Billing Information:
Haley & Aldrich - Phoenix 400 E. Van Buren St #545 Phoenix, AZ 85004	Attn: Accounts Payable 70 Blanchard Rd Suite 204 Burlington, MA 01803
Report to: Samantha Kaney 602-760-2441	Email To: SKaney@haleyaldrich.com
Project Description: ESI - Env. Sampling	City/State Collected: Missouri
Phone:	Client Project # 0213103-000
Lab Project #	
Collected by (print): S. Kaney	Site/Facility ID #
P.O. #	
Collected by (signature):	Quote #
Immediately Packed on Ice N ___ Y X	Rush? (Lab MUST Be Notified) ___ Same Day X Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Date Results Needed	

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Hexavalent Chromium SW7196A	Hexavalent Chromium EPA 7199	Mercury - EPA SW7471B	Total Metals - EPA SW6010B	% Moisture - SW 3550C	Rad 226 & 228 - EPA 903/904	Rad 226 & 228 - HASL 300 Ga01	Sulfate Anions - EPA SW-846 9056A			
Clinton-School-Ditch_I-So	Comp	SS	0-1	3/11/25	0810	3	X	X	X	X	X	X	X	X			-01
18_901_I_So	Comp	SS	0-1	3/11/25	0900	3	X	X	X	X	X	X	X	X			-02
K_18_I_So	Comp	SS	0-1	3/11/25	0940	3	X	X	X	X	X	X	X	X			-03
P_230_I_So	Comp	SS	0-1	3/11/25	1025	3	X	X	X	X	X	X	X	X			-04
P 350_I_So	Comp	SS	0-1	3/11/25	1055	3	X	X	X	X	X	X	X	X			-05
NTR_I_So	Comp	SS	0-1	3/11/25	1135	3	X	X	X	X	X	X	X	X			-06
Dup_So_03125	Comp	SS	0-1	3/11/25	1700	3	X	X	X	X	X	X	X	X			-07
Fly Ash_I_So	~~Grab~~	SS*	0-1	3/11/25	1508	3	X	X	X	X	X	X	X	X			-08

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # ~~LK635506~~ N 3/20/25
A035
Table # L1838002
Acctnum:
Template:
Prelogin:
PM:
PB:
Shipped Via:

Remarks	Sample # (lab only)
	-01
	-02
	-03
	-04
	-05
	-06
	-07
	-08

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other _____

Remarks: * fly ash *
- no MSD on rad -

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact:	NP Y N
COC Signed/Accurate:	Y N
Bottles arrive intact:	Y N
Correct bottles used:	Y N
Sufficient volume sent:	Y N
If Applicable	
VOA Zero Headspace:	Y N
Preservation Correct/Checked:	Y N
RAD Screen <0.5 mR/hr:	Y N

Samples returned via: __ UPS __ FedEx X Courier _____

Tracking # 443924388183

Relinquished by: (Signature)	Date: 3/11/25	Time: 1735	Received by: (Signature) FedEx	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 6 4 4 °C Bottles Received: 27	0500
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3.12.25 Time: 0900	Hold: Condition: NCF / OK

Rush Relog L1835568 HALALDPAZ R3

R0/R1

Please relog L1835568, all samples for CR6IC and 6010 Metals Ag,As,Ba,B,Cd,Co,Cr,Li,Pb.
Transfer TS $0 : WG2469634 01, 02 WG2469635 -03 through -09
Add QC4
Select this SDG for MS/MSD on both CR6IC and Metals
Log as R2 due Friday AM

Daphne Richards

Project Manager 2, National

Pace Analytical Services

O. 615.773.9662 l pacelabs.com

[cid:69167a4c-5de0-4d2b-9ac7-f8f8fe5d1c69]

[cid:8f40a4f0-2189-4749-9b14-6b4a48a28f4a]

Pace Analytical Services Online Billing<https://secure2.billtrust.com/pacelabs/ig/signin>

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P Please consider the environment before printing this email

Time estimate: oh **Time spent:** oh

Members

DR Daphne Richards (responsible)

ANALYTICAL REPORT

April 02, 2025

Revised Report

Haley & Aldrich-Phoenix, AZ

Sample Delivery Group:	L1838014
Samples Received:	03/11/2025
Project Number:	0213103.000
Description:	

Report To: Samantha Kaney
400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Entire Report Reviewed By:

Daphne R Richards

Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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L1838014-02 03/13/25 08:15 LOGBAL3 11

L1838014-03 03/13/25 08:15 LOGBAL3 12

L1838014-04 03/13/25 08:15 LOGBAL3 13

L1838014-05 03/13/25 08:15 LOGBAL3 14

L1838014-06 03/13/25 08:15 LOGBAL3 15

L1838014-07 03/13/25 08:15 LOGBAL3 16

L1838014-08 03/13/25 08:15 LOGBAL3 17

L1838014-09 03/13/25 08:15 LOGBAL3 18

L1838014-10 03/13/25 08:15 LOGBAL3 19

L1838014-11 03/13/25 07:53 LOGBAL3 20

BLANK(R4186050-1) WG2467878 03/13/25 07:53 LOGBAL3 21

BLANK(R4186061-1) WG2467876 03/13/25 08:15 LOGBAL3 22

LCS(R4186050-2) WG2467878 03/13/25 07:53 LOGBAL3 23

LCS(R4186061-2) WG2467876 03/13/25 08:15 LOGBAL3 24

DUP(R4186050-3) WG2467878 03/13/25 07:53 LOGBAL3 25

DUP(R4186061-3) WG2467876 03/13/25 08:15 LOGBAL3 26

Blank 27

LOGBAL3 WG2467878 27

LOGBAL3 WG2467876 28

Laboratory Duplicate 29

WG2467878 DUP(R4186050-3) 29

WG2467876 DUP(R4186061-3) 30

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MONTROSE_SCHOOL_DITCH_S_SO L1838014-01 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 10:50 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:46	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 13:31	DJS	Mt. Juliet, TN

MONTROSE_SCHOOL_DRAINS_S_SO L1838014-02 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 11:20 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:49	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 13:55	DJS	Mt. Juliet, TN

650_851_S_SO L1838014-03 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 11:55 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:50	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 14:00	DJS	Mt. Juliet, TN

601_T_S_SO L1838014-04 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 12:35 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:50	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 14:01	DJS	Mt. Juliet, TN

250_651_S_SO L1838014-05 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 13:10 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:50	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 14:03	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_DITCH_S_SO L1838014-06 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 13:50 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:51	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 14:05	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_DRAINS_S_SO L1838014-07 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 14:15 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:51	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 14:06	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO L1838014-08 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 14:45 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:51	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 14:08	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_WPLAYGROUND_S_SO L1838014-09 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 15:10 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:52	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 14:10	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_TRACK_S_SO L1838014-10 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 15:35 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467876	1	03/13/25 08:04	03/13/25 08:15	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:52	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 14:11	DJS	Mt. Juliet, TN

DAVIS_SCHOOL_DUP_S_SO L1838014-11 Solid

Collected by: S. Kaney | Collected date/time: 03/10/25 17:05 | Received date/time: 03/11/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2467878	1	03/13/25 07:43	03/13/25 07:53	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:52	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473543	1	03/21/25 07:41	03/21/25 14:13	DJS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

Report Revision History

Level II Report - Version 1: 03/27/25 09:22
Level IV Report - Version 2: 03/27/25 09:34
Level II Report - Version 3: 04/02/25 16:23

Project Narrative

Selenium added

2540 G-2011 Total Solids

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1838014-01	**SDG:**	L1838014
Client Sample ID:	MONTROSE_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	14	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	11.898 g
Total Solids (%):	77.6	**Final Wt/Vol:**	9.524 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	77.6	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1838014-02	**SDG:**	L1838014
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	15	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	10.849 g
Total Solids (%):	75.5	**Final Wt/Vol:**	8.514 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	75.5	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838014-03	**SDG:**	L1838014
Client Sample ID:	650_851_S_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	16	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.508 g
Total Solids (%):	72.0	**Final Wt/Vol:**	7.212 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	72.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
601_T_S_SO

Lab Sample ID:	L1838014-04	**SDG:**	L1838014
Client Sample ID:	601_T_S_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	17	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	10.684 g
Total Solids (%):	69.9	**Final Wt/Vol:**	7.857 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	69.9	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838014-05	**SDG:**	L1838014
Client Sample ID:	250_651_S_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	18	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	12.3 g
Total Solids (%):	61.8	**Final Wt/Vol:**	8.101 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	61.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1838014-06	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	19	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	12.161 g
Total Solids (%):	67.8	**Final Wt/Vol:**	8.661 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	67.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1838014-07	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	20	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	10.85 g
Total Solids (%):	69.1	**Final Wt/Vol:**	7.895 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	69.1	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAY GROUND_S_SO

Lab Sample ID:	L1838014-08	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	21	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	10.809 g
Total Solids (%):	68.8	**Final Wt/Vol:**	7.84 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	68.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_S_SO

Lab Sample ID:	L1838014-09	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	22	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	14.926 g
Total Solids (%):	67.1	**Final Wt/Vol:**	10.449 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	67.1	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_S_SO

Lab Sample ID:	L1838014-10	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_TRACK_S_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	23	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:04
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	12.298 g
Total Solids (%):	67.3	**Final Wt/Vol:**	8.702 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	67.3	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_S_SO

Lab Sample ID:	L1838014-11	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_DUP_S_SO	**Collected Date/Time:**	03/10/25 17:05
Lab File ID:	14	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:43
Analytical Batch:	WG2467878	**Analysis Date/Time:**	03/13/25 07:53
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	14.133 g
Total Solids (%):	72.3	**Final Wt/Vol:**	10.57 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	72.3	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186050-1	**SDG:**	L1838014
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:43
Analytical Batch:	WG2467878	**Analysis Date/Time:**	03/13/25 07:53
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.282 g
Total Solids (%):		**Final Wt/Vol:**	1.282 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.000	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186061-1	**SDG:**	L1838014
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:03
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.295 g
Total Solids (%):		**Final Wt/Vol:**	1.295 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.000	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186050-2	**SDG:**	L1838014
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:43
Analytical Batch:	WG2467878	**Analysis Date/Time:**	03/13/25 07:53
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.29 g
Total Solids (%):		**Final Wt/Vol:**	6.292 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186061-2	**SDG:**	L1838014
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:03
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.304 g
Total Solids (%):		**Final Wt/Vol:**	6.305 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186050-3	**SDG:**	L1838014
Client Sample ID:	DUP	**Collected Date/Time:**	02/13/25 14:45
Lab File ID:	02	**Received Date/Time:**	03/11/25 10:30
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 07:43
Analytical Batch:	WG2467878	**Analysis Date/Time:**	03/13/25 07:53
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	14.664 g
Total Solids (%):	83.6	**Final Wt/Vol:**	12.578 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	84.4	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186061-3	**SDG:**	L1838014
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	02	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/13/25 08:03
Analytical Batch:	WG2467876	**Analysis Date/Time:**	03/13/25 08:15
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	13.61 g
Total Solids (%):	75.5	**Final Wt/Vol:**	10.814 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	77.3	

SDG:	L1838014	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2467878

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.000	

SDG:	L1838014	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2467876

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.000	

DUP Sample / File ID:	R4186050-3 / 02	**SDG:**	L1838014
OS Sample / File ID:	L1834754-02 / 06	**Analytical Batch:**	WG2467878
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	83.6	84.4	0.935	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4186061-3 / 02	**SDG:**	L1838014
OS Sample / File ID:	L1834664-02 / 05	**Analytical Batch:**	WG2467876
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	75.5	77.3	2.29	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1838014-11

SAMPLE NO.:
R4186050-2

LCS Sample / File ID:	R4186050-2 / 03	**SDG:**	L1838014
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467878
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1838014-01,02,03,04,05,06,07,08,09,10

SAMPLE NO.:
R4186061-2

LCS Sample / File ID:	R4186061-2 / 03	**SDG:**	L1838014
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467876
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1838014-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 2540 G-2011

Matrix: Solid **Prep Method:** SM 2540 G

Analyte	CAS	Wavelength	Mass	MDL	RDL
				%	%
Total Solids	TSOLIDS				

ANALYSIS LOG

SDG:	L1838014	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL3	**Calibration Start Date:**	_____
Analytical Run:	WG2467878	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4186050-1	01	03/13/25 07:53	1	WG2467878
DUP	R4186050-3	02	03/13/25 07:53	1	WG2467878
LCS	R4186050-2	03	03/13/25 07:53	1	WG2467878
OS	L1834754-02	06	03/13/25 07:53		
DAVIS_SCHOOL_DUP_S_SO	L1838014-11	14	03/13/25 07:53	1	WG2467878

ANALYSIS LOG

SDG:	L1838014	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL3	**Calibration Start Date:**	
Analytical Run:	WG2467876	**Calibration End Date:**	

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4186061-1	01	03/13/25 08:15	1	WG2467876
DUP	R4186061-3	02	03/13/25 08:15	1	WG2467876
LCS	R4186061-2	03	03/13/25 08:15	1	WG2467876
OS	L1834664-02	05	03/13/25 08:15		
250_651_S_SO	L1838014-05	18	03/13/25 08:15	1	WG2467876
DAVIS_SCHOOL_DITCH_S_SO	L1838014-06	19	03/13/25 08:15	1	WG2467876
DAVIS_SCHOOL_DRAINS_S_SO	L1838014-07	20	03/13/25 08:15	1	WG2467876
DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	L1838014-08	21	03/13/25 08:15	1	WG2467876
DAVIS_SCHOOL_WPLAYGROUND_S_SO	L1838014-09	22	03/13/25 08:15	1	WG2467876
601_T_S_SO	L1838014-04	17	03/13/25 08:15	1	WG2467876
DAVIS_SCHOOL_TRACK_S_SO	L1838014-10	23	03/13/25 08:15	1	WG2467876
MONTROSE_SCHOOL_DITCH_S_SO	L1838014-01	14	03/13/25 08:15	1	WG2467876
MONTROSE_SCHOOL_DRAINS_S_SO	L1838014-02	15	03/13/25 08:15	1	WG2467876
650_851_S_SO	L1838014-03	16	03/13/25 08:15	1	WG2467876

Total Solids WetChem Prep Benchsheet

Batch: WG2467876

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25

Analyst: CMB3616 **Prep Start Date/Time:** 03/13/25 08:03-08:04 **Prep End Date/Time:** 03/13/25 14:48 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL3 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				E1	1.295	1.295	1.295	1.295	0	0	100						JAV213	03/20/25 13:37:51
LCS				E2	1.303	11.304	6.307	6.305	0.002	50.015	49.985	100.03	99.97				JAV213	03/20/25 13:37:51
DUP(L1834664-02)				E3	1.300	13.610	10.805	10.814	0.009	77.2868	22.7132			2.29	7.41	PP2 0312	JAV213	03/20/25 13:37:51
1. L1834664-01	SS	MO	03/10/25 10:50	E4	1.300	11.898	9.520	9.524	0.004	77.5995	22.4005					PP2 0312	JAV213	03/20/25 13:37:51
2. L1834664-02	SS	MO	03/10/25 11:20	E5	1.303	10.849	8.513	8.514	0.001	75.5395	24.4605						JAV213	03/20/25 13:37:51
3. L1834664-03	SS	MO	03/10/25 11:55	E6	1.307	9.508	7.211	7.212	0.001	72.0034	27.9966					PP2 0312	JAV213	03/20/25 13:37:51
4. L1834664-04	SS	MO	03/10/25 12:35	E7	1.304	10.684	7.853	7.857	0.004	69.8614	30.1386					PP2 0312	JAV213	03/20/25 13:37:51
5. L1834664-05	SS	MO	03/10/25 13:10	E8	1.302	12.300	8.102	8.101	0.001	61.8203	38.1797					PP2 0312	JAV213	03/20/25 13:37:51
6. L1834664-06	SS	MO	03/10/25 13:50	E9	1.303	12.161	8.661	8.661	0	67.7657	32.2343					PP2 0312	JAV213	03/20/25 13:37:51
7. L1834664-07	SS	MO	03/10/25 14:15	E10	1.290	10.850	7.891	7.895	0.004	69.09	30.91					PP2 0312	JAV213	03/20/25 13:37:51
8. L1834664-08	SS	MO	03/10/25 14:45	E11	1.301	10.809	7.840	7.840	0	68.7737	31.2263					PP2 0312	JAV213	03/20/25 13:37:51
9. L1834664-09	SS	MO	03/10/25 15:10	E12	1.304	14.926	10.449	10.449	0	67.134	32.866					PP2 0312	JAV213	03/20/25 13:37:51
10. L1834664-10	SS	MO	03/10/25 15:35	E13	1.301	12.298	8.702	8.702	0	67.3002	32.6998					PP2 0312	JAV213	03/20/25 13:37:51
11. L1838014-01	SS	MO	03/10/25 10:50	E4	1.300	11.898	9.520	9.524	0.004	77.5995	22.4005					PP2 0312	JAV213	03/20/25 13:37:51
12. L1838014-02	SS	MO	03/10/25 11:20	E5	1.303	10.849	8.513	8.514	0.001	75.5395	24.4605						JAV213	03/20/25 13:37:51
13. L1838014-03	SS	MO	03/10/25 11:55	E6	1.307	9.508	7.211	7.212	0.001	72.0034	27.9966					PP2 0312	JAV213	03/20/25 13:37:51
14. L1838014-04	SS	MO	03/10/25 12:35	E7	1.304	10.684	7.853	7.857	0.004	69.8614	30.1386					PP2 0312	JAV213	03/20/25 13:37:51
15. L1838014-05	SS	MO	03/10/25 13:10	E8	1.302	12.300	8.102	8.101	0.001	61.8203	38.1797					PP2 0312	JAV213	03/20/25 13:37:51
16. L1838014-06	SS	MO	03/10/25 13:50	E9	1.303	12.161	8.661	8.661	0	67.7657	32.2343					PP2 0312	JAV213	03/20/25 13:37:51
17. L1838014-07	SS	MO	03/10/25 14:15	E10	1.290	10.850	7.891	7.895	0.004	69.09	30.91					PP2 0312	JAV213	03/20/25 13:37:51
18. L1838014-08	SS	MO	03/10/25 14:45	E11	1.301	10.809	7.840	7.840	0	68.7737	31.2263					PP2 0312	JAV213	03/20/25 13:37:51
19. L1838014-09	SS	MO	03/10/25 15:10	E12	1.304	14.926	10.449	10.449	0	67.134	32.866					PP2 0312	JAV213	03/20/25 13:37:51
20. L1838014-10	SS	MO	03/10/25 15:35	E13	1.301	12.298	8.702	8.702	0	67.3002	32.6998					PP2 0312	JAV213	03/20/25 13:37:51

Comments:
L1838014-02 Time Added: 03/20/25 09:38:40
L1838014-05 Time Added: 03/20/25 09:38:40
L1838014-04 Time Added: 03/20/25 09:38:40
L1838014-03 Time Added: 03/20/25 09:38:40
L1838014-01 Time Added: 03/20/25 09:38:39
L1838014-09 Time Added: 03/20/25 09:38:40
L1838014-08 Time Added: 03/20/25 09:38:40
L1838014-07 Time Added: 03/20/25 09:38:40
L1838014-10 Time Added: 03/20/25 09:38:40
L1838014-06 Time Added: 03/20/25 09:38:40

Reviewed By:JAV213 on 03/20/25 13:37:51

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/13/25 08:15:46	104	104	03/13/25 13:04:12	104	104	BLANK, LCS, DUP(L1834664-02), L1834664-01, L1838014-10, L1838014-09, L1838014-08, L1838014-07, L1838014-06, L1838014-05, L1838014-04, L1838014-03, L1838014-02, L1838014-01, L1834664-10, L1834664-09, L1834664-08, L1834664-07, L1834664-06, L1834664-05, L1834664-04, L1834664-03, L1834664-02
2	Oven-1hr	03/13/25 13:07:45	104	104	03/13/25 14:44:17	104	104	BLANK, LCS, DUP(L1834664-02), L1834664-01, L1834664-02, L1834664-03, L1834664-04, L1834664-05, L1834664-06, L1834664-07, L1834664-08, L1834664-09, L1834664-10, L1838014-01, L1838014-02, L1838014-03, L1838014-04, L1838014-05, L1838014-06, L1838014-07, L1838014-08, L1838014-09, L1838014-10

Total Solids WetChem Prep Benchsheet

Batch: WG2467878

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1834664	WG2466979	BJM688	PREPREPBAL2	12-MAR-25
L1834754	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834756	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834758	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834759	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834760	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834761	WG2467809	CMW844	PREPREPBAL2	12-MAR-25
L1834780	WG2467815	CMW844	PREPREPBAL2	12-MAR-25

Analyst: CMB3616 **Prep Start Date/Time:** 03/13/25 07:43 **Prep End Date/Time:** 03/13/25 14:37 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL3 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				C1	1.282	1.282	1.282	1.282	0	0	100						JAV213	03/20/25 13:38:12
LCS				C2	1.290	11.290	6.292	6.292	0	50.02	49.98	100.04	99.96				JAV213	03/20/25 13:38:12
DUP(L1834754-02)				C3	1.279	14.664	12.575	12.578	0.003	84.4154	15.5846			0.93	4.92	Wed-6/PP20312	JAV213	03/20/25 13:38:12
1. L1834664-11	SS	MO	03/10/25 17:05	C4	1.275	14.133	10.566	10.570	0.004	72.2896	27.7104					PP20312	JAV213	03/20/25 13:38:12
2. L1834754-01	SS	AK	02/13/25 14:35	C5	1.281	13.969	13.645	13.645	0	97.4464	2.5536					Wed-6/PP20312	JAV213	03/20/25 13:38:12
3. L1834754-02	SS	AK	02/13/25 14:45	C6	1.286	15.116	12.853	12.852	0.001	83.6298	16.3702						JAV213	03/20/25 13:38:12
4. L1834754-03	SS	AK	03/07/25 12:52	C7	1.277	14.152	10.500	10.501	0.001	71.6427	28.3573					Wed-6/PP20312	JAV213	03/20/25 13:38:12
5. L1834756-01	SS	OR	03/07/25 16:35	C8	1.281	14.271	13.256	13.256	0	92.1863	7.8137					Wed-6/PP20312	JAV213	03/20/25 13:38:12
6. L1834758-01	SS	OR	03/07/25 16:25	C9	1.284	15.360	14.589	14.587	0.002	94.5084	5.4916					Wed-6/PP20312	JAV213	03/20/25 13:38:12
7. L1834759-01	SS	OR	03/07/25 16:15	C10	1.280	15.051	14.378	14.374	0.004	95.0839	4.9161					Wed-6/PP20312	JAV213	03/20/25 13:38:12
8. L1834760-01	SS	OR	03/07/25 16:55	C11	1.272	15.495	13.567	13.571	0.004	86.4726	13.5274					Wed-6/PP20312	JAV213	03/20/25 13:38:12
9. L1834761-01	SS	OR	03/07/25 16:40	C12	1.288	15.888	14.496	14.504	0.008	90.5205	9.4795					Wed-6/PP20312	JAV213	03/20/25 13:38:12
10. L1834780-01	SS	NY	03/08/25 09:20	C13	1.283	8.964	8.293	8.295	0.002	91.2902	8.7098					Wed-7/PP20313	JAV213	03/20/25 13:38:12
11. L1838014-11	SS	MO	03/10/25 17:05	C4	1.275	14.133	10.566	10.570	0.004	72.2896	27.7104					PP20312	JAV213	03/20/25 13:38:12

Comments:
L1838014-11 Time Added: 03/20/25 09:38:40

Reviewed By:JAV213 on 03/20/25 13:38:12

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/13/25 07:53:22	104	104	03/13/25 12:55:45	104	104	BLANK, LCS, DUP(L1834754-02), L1834664-11, L1838014-11, L1834780-01, L1834761-01, L1834760-01, L1834759-01, L1834758-01, L1834756-01, L1834754-03, L1834754-02, L1834754-01
2	Oven-1hr	03/13/25 13:00:10	104	104	03/13/25 14:32:50	104	104	BLANK, LCS, DUP(L1834754-02), L1834664-11, L1834754-01, L1834754-02, L1834754-03, L1834756-01, L1834758-01, L1834759-01, L1834760-01, L1834761-01, L1834780-01, L1838014-11

3060A/7196A Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1838014-01	**SDG:**	L1838014
Client Sample ID:	MONTROSE_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321184644	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:46
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.2541 g
Total Solids (%):	77.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		9.68	25.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1838014-02	**SDG:**	L1838014
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250321184944	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:49
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.2525 g
Total Solids (%):	75.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		9.94	26.5

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
650_851_S_SO

Lab Sample ID:	L1838014-03	**SDG:**	L1838014
Client Sample ID:	650_851_S_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	20250321185022	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:50
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2520 g
Total Solids (%):	72.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.4	27.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838014-04	**SDG:**	L1838014
Client Sample ID:	601_T_S_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	20250321185039	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:50
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2512 g
Total Solids (%):	69.9	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.7	28.6

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
250_651_S_SO

Lab Sample ID:	L1838014-05	**SDG:**	L1838014
Client Sample ID:	250_651_S_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	20250321185052	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:50
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2501 g
Total Solids (%):	61.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		12.1	32.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1838014-06	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	20250321185105	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:51
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2503 g
Total Solids (%):	67.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		11.1	29.5

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1838014-07	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	20250321185140	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:51
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.2534 g
Total Solids (%):	69.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.9	28.9

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_FRONT_PLAY GROUND_S_SO

Lab Sample ID:	L1838014-08	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	20250321185154	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:51
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.2535 g
Total Solids (%):	68.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.9	29.1

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_S_SO

Lab Sample ID:	L1838014-09	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	20250321185206	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:52
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.2516 g
Total Solids (%):	67.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		11.2	29.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_S_SO

Lab Sample ID:	L1838014-10	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_TRACK_S_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	20250321185220	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:52
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2529 g
Total Solids (%):	67.3	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		11.2	29.7

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_S_SO

Lab Sample ID:	L1838014-11	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_DUP_S_SO	**Collected Date/Time:**	03/10/25 17:05
Lab File ID:	20250321185234	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:52
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2531 g
Total Solids (%):	72.3	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.4	27.7

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-1	**SDG:**	L1838014
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250321184629	**Received Date/Time:**	_____
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 09:59
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:46
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-12	**SDG:**	L1838014
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	20250321185647	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:56
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2517 g
Total Solids (%):	73.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.3	27.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-2	**SDG:**	L1838014
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250321184635	**Received Date/Time:**	_____
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 09:59
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:46
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	**CAS**	**Result**	**Qualifier**	**MDL**	**RDL**
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	24.1		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-7	**SDG:**	L1838014
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250321185015	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:50
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2535 g
Total Solids (%):	75.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		9.94	26.5

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-10	**SDG:**	L1838014
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321185404	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:54
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2506 g
Total Solids (%):	72.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	272		10.3	27.6

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-4	**SDG:**	L1838014
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321184844	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:48
Dilution Factor:	50	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2521 g
Total Solids (%):	77.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	9030		48.5	129

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-5	**SDG:**	L1838014
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321184909	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:49
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2513 g
Total Solids (%):	77.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	249		9.68	25.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-9	**SDG:**	L1838014
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321185346	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:53
Dilution Factor:	50	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2508 g
Total Solids (%):	72.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	9490		51.8	138

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-11	**SDG:**	L1838014
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321185410	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:54
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2508 g
Total Solids (%):	72.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	276		10.3	27.6

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-6	**SDG:**	L1838014
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321184930	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:49
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2539 g
Total Solids (%):	77.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	246		9.68	25.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-3	**SDG:**	L1838014
Client Sample ID:	PS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321184658	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:46
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2541 g
Total Solids (%):	77.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	283		9.68	25.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-8	**SDG:**	L1838014
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321185320	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:53
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2500 g
Total Solids (%):	72.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	329		10.3	27.6

CALIBRATION VERIFICATION

SDG:	L1838014	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631
Concentration Units:	mg/L		

	ICV				CCV				CCV			
Sample ID:	DR6000-3032125184622				DR6000-3032125185002				DR6000-3032125185126			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20	19.60	98		20	19.48	97.40		20	19.44	97.20	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1838014	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631
Concentration Units:	mg/L		

		CCV				CCV				CCV			
Sample ID:		DR6000-3032125185245				DR6000-3032125185444				DR6000-3032125185654			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20	19.40	97		20	19.48	97.40		20	19.52	97.60	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1838014	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631
Concentration Units:	mg/L		

CCV

Sample ID: DR6000-3032125185613

Analyte	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20	19.40	97	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1838014	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250321184629		20250321185008		20250321185132		20250321185251	
Analyte	mg/kg		mg/L		mg/L		mg/L	
CHROMIUM,HEXAVALENT	U		-0.002000		-0.002000		-0.001000	

SDG:	L1838014	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250321185456		20250321185620		20250321185700	
Analyte	mg/L		mg/L		mg/L	
CHROMIUM,HEXAVALENT	-0.001000		0.0000		0.0000	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838014-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.:
R4189572-10
R4189572-11

MS Sample / File ID:	R4189572-10 / 20250321185404	**SDG:**	L1838014
MSD Sample / File ID:	R4189572-11 / 20250321185410	**Analytical Batch:**	WG2473631
OS Sample / File ID:	L1838018-01 / 20250321185304	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	276	U	272	276	98.8	100	10	75.0 - 125	1.52	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838014-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4189572-4

MS Sample / File ID:	R4189572-4 / 20250321184844	**SDG:**	L1838014
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2473631
OS Sample / File ID:	L1838014-01 / 20250321184644	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	8220	U	9030		110		50	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838014-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.:
R4189572-5
R4189572-6

MS Sample / File ID:	R4189572-5 / 20250321184909	**SDG:**	L1838014
MSD Sample / File ID:	R4189572-6 / 20250321184930	**Analytical Batch:**	WG2473631
OS Sample / File ID:	L1838014-01 / 20250321184644	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	258	U	249	246	96.5	95.3	10	75.0 - 125	1.24	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838014-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4189572-9

MS Sample / File ID:	R4189572-9 / 20250321185346	**SDG:**	L1838014
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2473631
OS Sample / File ID:	L1838018-01 / 20250321185304	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	8830	U	9490		108		50	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5B-IN

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1838014-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4189572-3

PS Sample / File ID:	R4189572-3 / 20250321184658	**SDG:**	L1838014
OS Sample / File ID:	L1838014-01 / 20250321184644	**Analytical Batch:**	WG2473631
Instrument ID:	DR6000-3	**Dilution Factor:**	10
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	322	U	283		88.0		10	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5B-IN

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1838014-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4189572-8

PS Sample / File ID:	R4189572-8 / 20250321185320	**SDG:**	L1838014
OS Sample / File ID:	L1838018-01 / 20250321185304	**Analytical Batch:**	WG2473631
Instrument ID:	DR6000-3	**Dilution Factor:**	10
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	344	U	329		95.5		10	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4189572-12 / 20250321185647	**SDG:**	L1838014
OS Sample / File ID:	L1838018-08 / 20250321185633	**Analytical Batch:**	WG2473631
Instrument ID:	DR6000-3	**Dilution Factor:**	10
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4189572-7 / 20250321185015	**SDG:**	L1838014
OS Sample / File ID:	L1838014-02 / 20250321184944	**Analytical Batch:**	WG2473631
Instrument ID:	DR6000-3	**Dilution Factor:**	10
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1838014-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.: R4189572-2

LCS Sample / File ID:	R4189572-2 / 20250321184635	**SDG:**	L1838014
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2473631
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Chromium,Hexavalent	24.0	24.1		101		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1838014-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 3060A/7196A

Matrix: Solid **Prep Method:** 3060A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Chromium,Hexavalent	18540-29-9			0.7510	2

ANALYSIS LOG

SDG:	L1838014	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	_____
Analytical Run:	WG2420318	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0	50	12/19/24 15:00		
CAL	.01	51	12/19/24 15:00		
CAL	.02	52	12/19/24 15:00		
CAL	.05	53	12/19/24 15:00		
CAL	.1	54	12/19/24 15:00		
CAL	.5	55	12/19/24 15:00		
CAL	1	56	12/19/24 15:00		

ANALYSIS LOG

SDG:	L1838014	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	12/19/24 15:00
Analytical Run:	WG2473631	**Calibration End Date:**	12/19/24 15:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-3032125184622	20250321184622	03/21/25 18:46		
BLANK	R4189572-1	20250321184629	03/21/25 18:46	1	WG2473631
LCS	R4189572-2	20250321184635	03/21/25 18:46	1	WG2473631
MONTROSE_SCHOOL_DITCH_S_SO	L1838014-01	20250321184644	03/21/25 18:46	10	WG2473631
PS	R4189572-3	20250321184658	03/21/25 18:46	10	WG2473631
MS	R4189572-4	20250321184844	03/21/25 18:48	50	WG2473631
MS	R4189572-5	20250321184909	03/21/25 18:49	10	WG2473631
MSD	R4189572-6	20250321184930	03/21/25 18:49	10	WG2473631
MONTROSE_SCHOOL_DRAINS_S_SO	L1838014-02	20250321184944	03/21/25 18:49	10	WG2473631
CCV	DR6000-3032125185002	20250321185002	03/21/25 18:50		
CCB	DR6000-3032125185008	20250321185008	03/21/25 18:50		
DUP	R4189572-7	20250321185015	03/21/25 18:50	10	WG2473631
650_851_S_SO	L1838014-03	20250321185022	03/21/25 18:50	10	WG2473631
601_T_S_SO	L1838014-04	20250321185039	03/21/25 18:50	10	WG2473631
250_651_S_SO	L1838014-05	20250321185052	03/21/25 18:50	10	WG2473631
DAVIS_SCHOOL_DITCH_S_SO	L1838014-06	20250321185105	03/21/25 18:51	10	WG2473631
CCV	DR6000-3032125185126	20250321185126	03/21/25 18:51		
CCB	DR6000-3032125185132	20250321185132	03/21/25 18:51		
DAVIS_SCHOOL_DRAINS_S_SO	L1838014-07	20250321185140	03/21/25 18:51	10	WG2473631
DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	L1838014-08	20250321185154	03/21/25 18:51	10	WG2473631
DAVIS_SCHOOL_WPLAYGROUND_S_SO	L1838014-09	20250321185206	03/21/25 18:52	10	WG2473631
DAVIS_SCHOOL_TRACK_S_SO	L1838014-10	20250321185220	03/21/25 18:52	10	WG2473631
DAVIS_SCHOOL_DUP_S_SO	L1838014-11	20250321185234	03/21/25 18:52	10	WG2473631
CCV	DR6000-3032125185245	20250321185245	03/21/25 18:52		
CCB	DR6000-3032125185251	20250321185251	03/21/25 18:52		
OS	L1838018-01	20250321185304	03/21/25 18:53		
L1838018-01	L1838018-01	20250321185304	03/21/25 18:53	10	WG2473631
PS	R4189572-8	20250321185320	03/21/25 18:53	10	WG2473631
MS	R4189572-9	20250321185346	03/21/25 18:53	50	WG2473631
MS	R4189572-10	20250321185404	03/21/25 18:54	10	WG2473631
MSD	R4189572-11	20250321185410	03/21/25 18:54	10	WG2473631
L1838018-02	L1838018-02	20250321185422	03/21/25 18:54	10	WG2473631
CCV	DR6000-3032125185444	20250321185444	03/21/25 18:54		
CCB	DR6000-3032125185456	20250321185456	03/21/25 18:54		
CCV	DR6000-3032125185613	20250321185613	03/21/25 18:56		
CCB	DR6000-3032125185620	20250321185620	03/21/25 18:56		
OS	L1838018-08	20250321185633	03/21/25 18:56		
L1838018-08	L1838018-08	20250321185633	03/21/25 18:56	10	WG2473631
DUP	R4189572-12	20250321185647	03/21/25 18:56	10	WG2473631
CCV	DR6000-3032125185654	20250321185654	03/21/25 18:56		
CCB	DR6000-3032125185700	20250321185700	03/21/25 18:57		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838014	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.01	.007658858	76.60	0.02	.018552278	92.80
File ID:		51			52	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838014	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.05	.047964512	95.90	0.10	.094806218	94.80
File ID:		53			54	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838014	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.50	.529453676	106	1	.984798632	98.50
File ID:		55			56	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1838014	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CHROMIUM,HEXAVALENT	0	5	0.999332			1.089342	-0.003235	

Calibration Type

0 = Linear Regression

Weightage

5 = None

Created: 12/19/24 15:26

Instrument: DR6000-3

Calibration Date: 12/19/24 15:00

Program Name: CR6 SS 12/19/2024 ARV4164

Wavelength: 540.0 nm

Analytical Method: 7196A SS

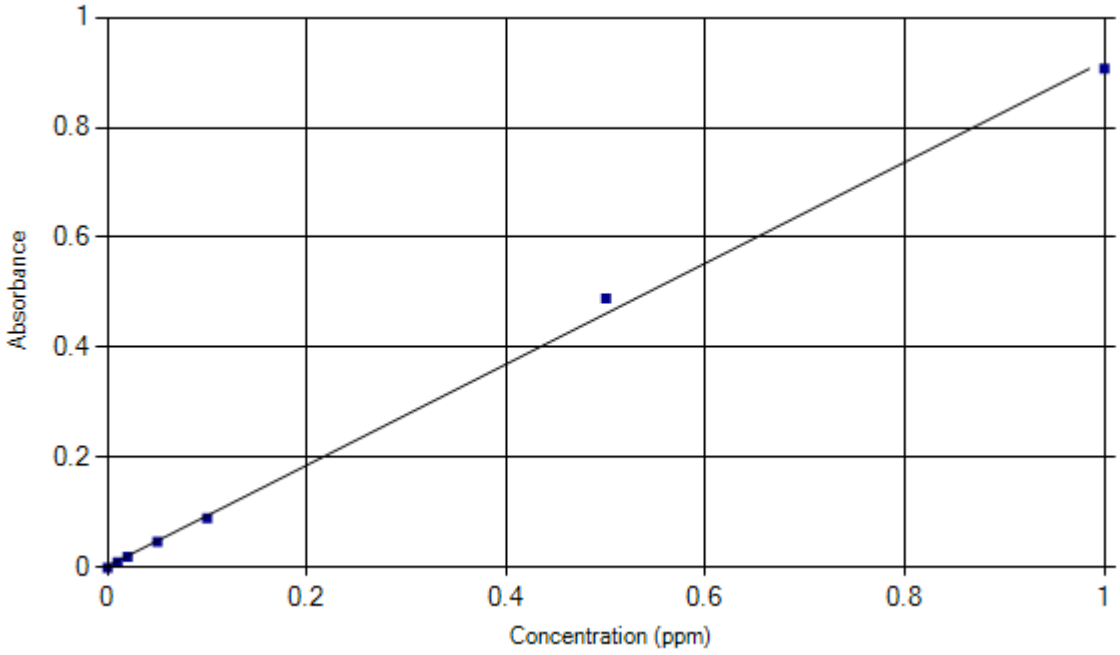
Analyte: CR6

Calibration Equation: Concentration = -0.003234562 + 1.089342 * Absorbance

Standard ID: 24L19163

ppm	Absorbance
0	0
0.01	0.01
0.02	0.02
0.05	0.047
0.1	0.090
0.5	0.489
1	0.907

R = 0.9993323



Instrument: DR6000-3

Created: 03/21/25 18:59

Serial Number: 1894098

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/21/25 18:46:22	CR6	CR6 SS 12/19/2024 ARV4164	ICV	1	0.490	mg/L	0.452
03/21/25 18:46:29	CR6	CR6 SS 12/19/2024 ARV4164	BLANK WG2473631	1	-0.003	mg/L	0.000
03/21/25 18:46:35	CR6	CR6 SS 12/19/2024 ARV4164	LCS WG2473631	1	0.603	mg/L	0.557
03/21/25 18:46:44	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-01 WG2473631	1	-0.002	mg/L	0.001
03/21/25 18:46:51	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-01-SB WG2473631	1	-0.002	mg/L	0.001
03/21/25 18:46:58	CR6	CR6 SS 12/19/2024 ARV4164	PS L1838014-01 WG2473631	1	0.559	mg/L	0.516
03/21/25 18:48:44	CR6	CR6 SS 12/19/2024 ARV4164	IMS L1838014-01 WG2473631	50.000	0.35338	mg/L	0.327
03/21/25 18:49:09	CR6	CR6 SS 12/19/2024 ARV4164	MS L1838014-01 WG2473631	1	0.485	mg/L	0.448
03/21/25 18:49:30	CR6	CR6 SS 12/19/2024 ARV4164	MSD L1838014-01 WG2473631	1	0.484	mg/L	0.447
03/21/25 18:49:44	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-02 WG2473631	1	-0.006	mg/L	-0.003
03/21/25 18:49:53	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-02-SB WG2473631	1	-0.006	mg/L	-0.003
03/21/25 18:50:02	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.487	mg/L	0.450
03/21/25 18:50:08	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.002	mg/L	0.001
03/21/25 18:50:15	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1838014-02 WG2473631	1	-0.006	mg/L	-0.002
03/21/25 18:50:22	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-03 WG2473631	1	-0.002	mg/L	0.001
03/21/25 18:50:29	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-03-SB WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:50:39	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-04 WG2473631	1	0.002	mg/L	0.005
03/21/25 18:50:45	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-04-SB WG2473631	1	0.001	mg/L	0.003
03/21/25 18:50:52	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-05 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:50:58	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-05-SB WG2473631	1	-0.005	mg/L	-0.001
03/21/25 18:51:05	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-06 WG2473631	1	0.001	mg/L	0.003
03/21/25 18:51:16	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-06-SB WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:51:26	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.486	mg/L	0.449
03/21/25 18:51:32	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.002	mg/L	0.001
03/21/25 18:51:40	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-07 WG2473631	1	-0.004	mg/L	-0.001
03/21/25 18:51:47	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-07-SB WG2473631	1	-0.005	mg/L	-0.002
03/21/25 18:51:54	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-08 WG2473631	1	0.000	mg/L	0.003
03/21/25 18:52:00	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-08-SB WG2473631	1	0.000	mg/L	0.003
03/21/25 18:52:06	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-09 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:52:13	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-09-SB WG2473631	1	-0.004	mg/L	-0.001
03/21/25 18:52:20	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-10 WG2473631	1	-0.002	mg/L	0.001
03/21/25 18:52:26	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-10-SB WG2473631	1	0.000	mg/L	0.003
03/21/25 18:52:34	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-11 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:52:45	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.485	mg/L	0.448
03/21/25 18:52:51	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.001	mg/L	0.001
03/21/25 18:52:57	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-11-SB WG2473631	1	-0.002	mg/L	0.001
03/21/25 18:53:04	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-01 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:53:12	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-01-SB WG2473631	1	-0.005	mg/L	-0.002
03/21/25 18:53:20	CR6	CR6 SS 12/19/2024 ARV4164	PS L1838018-01 WG2473631	1	0.597	mg/L	0.551

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/21/25 18:53:46	CR6	CR6 SS 12/19/2024 ARV4164	IMS L1838018-01 WG2473631	50.000	0.34568	mg/L	0.320
03/21/25 18:54:04	CR6	CR6 SS 12/19/2024 ARV4164	MS L1838018-01 WG2473631	1	0.495	mg/L	0.458
03/21/25 18:54:10	CR6	CR6 SS 12/19/2024 ARV4164	MSD L1838018-01 WG2473631	1	0.503	mg/L	0.465
03/21/25 18:54:22	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-02 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:54:30	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-02-SB WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:54:44	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.487	mg/L	0.450
03/21/25 18:54:56	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.001	mg/L	0.002
03/21/25 18:55:04	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-03 WG2473631	1	0.002	mg/L	0.005
03/21/25 18:55:11	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-03-SB WG2473631	1	0.001	mg/L	0.004
03/21/25 18:55:18	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-04 WG2473631	1	0.002	mg/L	0.004
03/21/25 18:55:24	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-04-SB WG2473631	1	0.001	mg/L	0.004
03/21/25 18:55:30	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-05 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:55:38	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-05-SB WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:55:45	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-06 WG2473631	1	0.003	mg/L	0.005
03/21/25 18:55:52	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-06-SB WG2473631	1	0.008	mg/L	0.010
03/21/25 18:56:00	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-07 WG2473631	1	-0.005	mg/L	-0.002
03/21/25 18:56:13	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.485	mg/L	0.448
03/21/25 18:56:20	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	0.000	mg/L	0.002
03/21/25 18:56:27	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-07-SB WG2473631	1	-0.006	mg/L	-0.003
03/21/25 18:56:33	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-08 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:56:40	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-08-SB WG2473631	1	-0.003	mg/L	0.000
03/21/25 18:56:47	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1838018-08 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:56:54	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.488	mg/L	0.451
03/21/25 18:57:00	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	0.000	mg/L	0.003

CR6 SS WetChem Prep Benchsheet

Batch: WG2473631

Analyst: ARV4164 **Prep Start Date/Time:** 03/21/25 09:59-10:00 **Prep End Date/Time:** 03/21/25 18:30 **Dig Start Date/Time:** 03/21/25 11:17:42
Dig End Date/Time: 03/21/25 12:17:01 **Dig Start Analyst:** JAS4101 **Dig End Analyst:** JAS4101 **Digest Soln. pH:** 13.24 **Phosphate Buffer pH:** 6.61
SOP: MTJL-0153 **Method:** 3060A **Balance ID:** WETBAL10 **1mL Auto Pipette SN:** VU32732 **0.5mL/1mL Auto Pipette Tips Lot#:** 25010044 **ThermoID:** 1053718
ThermoCorrectFact: -0.5 **ThermoPosition/Temp1(C°)/Temp2(C°):** C4/92/93 **10mL Pipette Lot #:** VU34865 **Transfer Pipette Lot#:** 24490085 **Filter Lot#:** 329076081
pH Strip Lot#: 10BDH4126 **Tongue Depressor Lot#:** P00638 **0.5mL Auto Pipette S/N:** NA **1mL glass pipette Lot#:** NA **Cuvette Lot#:** NA
Cal and Stds Workgroup: NA **Hotblock ID:** 2021CECW5460 **Centrifuge Tube Lot#:** NA **10mL Syringe Lot#:** 241125 **IR Gun ID:** CP52532
Thermometer Location: C4 **Tmer SN:** 240243854

ICV Standard: 25C20108 Amt. Used: 5 mL Exp. Date:03/21/25 **LCS/D Standard:** 25C20112 Amt. Used: 6 mL Exp. Date:03/21/25
MS/D Standard: 25C20112 Amt. Used: 5 mL Exp. Date:03/21/25 **Post spike:** 25C20112 Amt. Used: 0.60 mL Exp. Date:03/21/25
Digestion Solution: 25C15308 Amt. Used: 50 mL Exp. Date:09/15/25 **5N HNO3:** 25B18331 Amt. Used: 3 Exp. Date:07/07/25
Phosphate Buffer: 25B18330 Amt. Used: 0.50 mL Exp. Date:04/03/25 **H2SO4:** 25B20586 Amt. Used: 3 Exp. Date:08/20/25
Color Reagent: 25C20125 Amt. Used: 0.20 mL Exp. Date:03/27/25 **PbCrO4:** 25A21864 Amt. Used: 0.01 g Exp. Date:01/01/34
Sand: 25A29129 Amt. Used: 2.50 g Exp. Date:07/29/25 **MgCl2:** 25A31532 Amt. Used: 0.40 g Exp. Date:07/31/25
Acetone: 25C18732 Amt. Used: 0.20 mL Exp. Date:09/18/25

Sample Number	Initial Sample Wt. (g)	Final Volume (mL)	Dilution Factor	Adjusted pH	Review Analyst	Review Date
ICV	2.5	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
BLANK	2.5	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
LCS	2.5	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
1. L1838014-01	0.2541	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
2. L1838014-02	0.2525	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
3. L1838014-03	0.2520	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
4. L1838014-04	0.2512	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
5. L1838014-05	0.2501	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
6. L1838014-06	0.2503	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
7. L1838014-07	0.2534	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
8. L1838014-08	0.2535	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
9. L1838014-09	0.2516	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
10. L1838014-10	0.2529	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
11. L1838014-11	0.2531	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
12. L1838018-01	0.2500	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
13. L1838018-02	0.2513	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
14. L1838018-03	0.2529	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
15. L1838018-04	0.2534	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
16. L1838018-05	0.2513	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
17. L1838018-06	0.2533	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
18. L1838018-07	0.2531	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
19. L1838018-08	0.2510	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
DUP(L1838014-02)	0.2535	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
DUP(L1838018-08)	0.2517	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
MS(L1838014-01)	0.2513	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
MS(L1838018-01)	0.2506	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
MSD(L1838014-01)	0.2539	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
MSD(L1838018-01)	0.2508	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
Ins MS(L1838014-01)	0.2521	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
Ins MS(L1838018-01)	0.2508	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57

Comments:

Reviewed By:ARV4164 on 03/21/25 18:55:57

#	Type	Thermometer	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	IR Gun 1	1053718	-0.5	03/21/25 11:17:17	92	91.5	03/21/25 11:47:29	93	92.5	ICV, BLANK, LCS, L1838014-01, L1838018-08, L1838018-07, L1838018-06, L1838018-05, L1838018-04, L1838018-03, L1838018-02, L1838018-01, L1838014-11, L1838014-10, L1838014-09, L1838014-08, L1838014-07, L1838014-06, L1838014-05, L1838014-04, L1838014-03, L1838014-02, DUP(L1838014-02), DUP(L1838018-08), MS(L1838014-01), MS(L1838018-01), MSD(L1838014-01), MSD(L1838018-01), Ins MS(L1838014-01), Ins MS(L1838018-01)
2	IR Gun 1	1053718	-0.5	03/21/25 11:47:46	93	92.5	03/21/25 12:17:59	93	92.5	ICV, BLANK, LCS, L1838014-01, L1838014-02, L1838014-03, L1838014-04, L1838014-05, L1838014-06, L1838014-07, L1838014-08, L1838014-09, L1838014-10, L1838014-11, L1838018-01, L1838018-02, L1838018-03, L1838018-04, L1838018-05, L1838018-06, L1838018-07, L1838018-08, DUP(L1838014-02), DUP(L1838018-08), MS(L1838014-01), MS(L1838018-01), MSD(L1838014-01), MSD(L1838018-01), Ins MS(L1838014-01), Ins MS(L1838018-01)

6010D Metals (ICP)

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1838014-01	**SDG:**	L1838014
Client Sample ID:	MONTROSE_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321133145	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:31
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	77.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	2.27	J	1.08	2.58
Barium	7440-39-3	106		0.110	0.644
Boron	7440-42-8	U		5.80	25.8
Cadmium	7440-43-9	0.156	J	0.0842	0.644
Chromium	7440-47-3	6.67		0.276	1.29
Cobalt	7440-48-4	5.82		0.228	1.29
Lead	7439-92-1	32.3		0.420	0.644
Lithium	7439-93-2	1.69	J	0.522	6.44
Selenium	7782-49-2	U		1.38	2.58
Silver	7440-22-4	0.558	J	0.164	1.29

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1838014-02	**SDG:**	L1838014
Client Sample ID:	MONTROSE_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250321135507	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:55
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	75.5	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	2.95		1.11	2.65
Barium	7440-39-3	148		0.113	0.662
Boron	7440-42-8	U		5.96	26.5
Cadmium	7440-43-9	0.120	J	0.0864	0.662
Chromium	7440-47-3	6.69		0.283	1.32
Cobalt	7440-48-4	10.9		0.234	1.32
Lead	7439-92-1	22.0		0.432	0.662
Lithium	7439-93-2	3.58	J	0.536	6.62
Selenium	7782-49-2	U		1.42	2.65
Silver	7440-22-4	0.523	J	0.168	1.32

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838014-03	**SDG:**	L1838014
Client Sample ID:	650_851_S_SO	**Collected Date/Time:**	03/10/25 11:55
Lab File ID:	20250321140007	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 14:00
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.54 g
Total Solids (%):	72.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	1.84	J	1.16	2.78
Barium	7440-39-3	90.8		0.118	0.694
Boron	7440-42-8	U		6.25	27.8
Cadmium	7440-43-9	U		0.0907	0.694
Chromium	7440-47-3	5.73		0.297	1.39
Cobalt	7440-48-4	5.20		0.246	1.39
Lead	7439-92-1	11.7		0.453	0.694
Lithium	7439-93-2	3.18	J	0.562	6.94
Selenium	7782-49-2	U		1.49	2.78
Silver	7440-22-4	0.490	J	0.176	1.39

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838014-04	**SDG:**	L1838014
Client Sample ID:	601_T_S_SO	**Collected Date/Time:**	03/10/25 12:35
Lab File ID:	20250321140147	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 14:01
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	69.9	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	1.49	J	1.20	2.86
Barium	7440-39-3	82.8		0.122	0.716
Boron	7440-42-8	U		6.44	28.6
Cadmium	7440-43-9	0.206	J	0.0935	0.716
Chromium	7440-47-3	5.14		0.306	1.43
Cobalt	7440-48-4	4.23		0.253	1.43
Lead	7439-92-1	14.8		0.467	0.716
Lithium	7439-93-2	1.84	J	0.580	7.16
Selenium	7782-49-2	U		1.53	2.86
Silver	7440-22-4	0.414	J	0.182	1.43

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
250_651_S_SO

Lab Sample ID:	L1838014-05	**SDG:**	L1838014
Client Sample ID:	250_651_S_SO	**Collected Date/Time:**	03/10/25 13:10
Lab File ID:	20250321140327	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 14:03
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	61.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	2.97	J	1.35	3.24
Barium	7440-39-3	120		0.137	0.809
Boron	7440-42-8	U		7.28	32.4
Cadmium	7440-43-9	U		0.106	0.809
Chromium	7440-47-3	5.33		0.346	1.62
Cobalt	7440-48-4	7.21		0.286	1.62
Lead	7439-92-1	13.1		0.527	0.809
Lithium	7439-93-2	3.11	J	0.655	8.09
Selenium	7782-49-2	U		1.73	3.24
Silver	7440-22-4	0.733	J	0.205	1.62

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DITCH_S_SO

Lab Sample ID:	L1838014-06	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_DITCH_S_SO	**Collected Date/Time:**	03/10/25 13:50
Lab File ID:	20250321140507	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 14:05
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	67.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	5.17		1.24	2.95
Barium	7440-39-3	95.5		0.125	0.738
Boron	7440-42-8	U		6.64	29.5
Cadmium	7440-43-9	0.165	J	0.0964	0.738
Chromium	7440-47-3	8.30		0.316	1.48
Cobalt	7440-48-4	8.84		0.261	1.48
Lead	7439-92-1	21.4		0.481	0.738
Lithium	7439-93-2	3.17	J	0.598	7.38
Selenium	7782-49-2	1.97	J	1.58	2.95
Silver	7440-22-4	0.400	J	0.187	1.48

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_DRAINS_S_SO

Lab Sample ID:	L1838014-07	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_DRAINS_S_SO	**Collected Date/Time:**	03/10/25 14:15
Lab File ID:	20250321140647	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 14:06
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	69.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	5.37		1.21	2.89
Barium	7440-39-3	103		0.123	0.724
Boron	7440-42-8	U		6.51	28.9
Cadmium	7440-43-9	0.411	J	0.0945	0.724
Chromium	7440-47-3	8.58		0.310	1.45
Cobalt	7440-48-4	7.47		0.256	1.45
Lead	7439-92-1	33.4		0.472	0.724
Lithium	7439-93-2	2.96	J	0.586	7.24
Selenium	7782-49-2	U		1.55	2.89
Silver	7440-22-4	0.727	J	0.184	1.45

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_FRONT_PLAY GROUND_S_SO

Lab Sample ID:	L1838014-08	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 14:45
Lab File ID:	20250321140827	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 14:08
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.47 g
Total Solids (%):	68.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	4.40		1.22	2.91
Barium	7440-39-3	95.8		0.124	0.727
Boron	7440-42-8	U		6.54	29.1
Cadmium	7440-43-9	0.143	J	0.0949	0.727
Chromium	7440-47-3	6.72		0.311	1.45
Cobalt	7440-48-4	6.70		0.257	1.45
Lead	7439-92-1	21.5		0.474	0.727
Lithium	7439-93-2	2.50	J	0.589	7.27
Selenium	7782-49-2	2.12	J	1.56	2.91
Silver	7440-22-4	0.396	J	0.185	1.45

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: DAVIS_SCHOOL_WPLAYGROUND_S_SO

Lab Sample ID:	L1838014-09	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_WPLAYGROUND_S_SO	**Collected Date/Time:**	03/10/25 15:10
Lab File ID:	20250321141006	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 14:10
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):	67.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	3.49		1.25	2.98
Barium	7440-39-3	122		0.127	0.745
Boron	7440-42-8	U		6.70	29.8
Cadmium	7440-43-9	0.0975	J	0.0973	0.745
Chromium	7440-47-3	6.55		0.319	1.49
Cobalt	7440-48-4	4.35		0.264	1.49
Lead	7439-92-1	16.7		0.486	0.745
Lithium	7439-93-2	2.61	J	0.603	7.45
Selenium	7782-49-2	U		1.59	2.98
Silver	7440-22-4	0.358	J	0.189	1.49

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_TRACK_S_SO

Lab Sample ID:	L1838014-10	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_TRACK_S_SO	**Collected Date/Time:**	03/10/25 15:35
Lab File ID:	20250321141147	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 14:11
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	67.3	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	4.43		1.24	2.97
Barium	7440-39-3	116		0.126	0.743
Boron	7440-42-8	U		6.69	29.7
Cadmium	7440-43-9	U		0.0970	0.743
Chromium	7440-47-3	7.10		0.318	1.49
Cobalt	7440-48-4	5.46		0.263	1.49
Lead	7439-92-1	19.5		0.484	0.743
Lithium	7439-93-2	2.48	J	0.602	7.43
Selenium	7782-49-2	U		1.59	2.97
Silver	7440-22-4	0.253	J	0.189	1.49

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DAVIS_SCHOOL_DUP_S_SO

Lab Sample ID:	L1838014-11	**SDG:**	L1838014
Client Sample ID:	DAVIS_SCHOOL_DUP_S_SO	**Collected Date/Time:**	03/10/25 17:05
Lab File ID:	20250321141327	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 14:13
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	72.3	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	5.60		1.16	2.77
Barium	7440-39-3	116		0.118	0.692
Boron	7440-42-8	U		6.22	27.7
Cadmium	7440-43-9	0.202	J	0.0903	0.692
Chromium	7440-47-3	8.48		0.296	1.38
Cobalt	7440-48-4	5.65		0.245	1.38
Lead	7439-92-1	18.0		0.451	0.692
Lithium	7439-93-2	3.06	J	0.560	6.92
Selenium	7782-49-2	U		1.48	2.77
Silver	7440-22-4	0.409	J	0.176	1.38

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-1	**SDG:**	L1838014
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250321131134	**Received Date/Time:**	_____
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:40
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:11
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		0.837	2.00
Barium	7440-39-3	U		0.0850	0.500
Boron	7440-42-8	U		4.50	20.0
Cadmium	7440-43-9	U		0.0653	0.500
Chromium	7440-47-3	U		0.214	1.00
Cobalt	7440-48-4	U		0.177	1.00
Lead	7439-92-1	U		0.326	0.500
Lithium	7439-93-2	U		0.405	5.00
Selenium	7782-49-2	U		1.07	2.00
Silver	7440-22-4	U		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-2	**SDG:**	L1838014
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250321131314	**Received Date/Time:**	
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:40
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:13
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):		**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	96.2		0.837	2.00
Barium	7440-39-3	98.1		0.0850	0.500
Boron	7440-42-8	94.8		4.50	20.0
Cadmium	7440-43-9	95.0		0.0653	0.500
Chromium	7440-47-3	93.2		0.214	1.00
Cobalt	7440-48-4	89.8		0.177	1.00
Lead	7439-92-1	92.6		0.326	0.500
Lithium	7439-93-2	98.4		0.405	5.00
Selenium	7782-49-2	94.3		1.07	2.00
Silver	7440-22-4	18.6		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-5	**SDG:**	L1838014
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321131953	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:19
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.52 g
Total Solids (%):	67.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	140		1.25	2.98
Barium	7440-39-3	183		0.126	0.744
Boron	7440-42-8	132		6.69	29.8
Cadmium	7440-43-9	133		0.0971	0.744
Chromium	7440-47-3	136		0.318	1.49
Cobalt	7440-48-4	147		0.263	1.49
Lead	7439-92-1	165		0.485	0.744
Lithium	7439-93-2	163		0.603	7.44
Selenium	7782-49-2	131		1.59	2.98
Silver	7440-22-4	28.6		0.189	1.49

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-8	**SDG:**	L1838014
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321133506	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:35
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.51 g
Total Solids (%):	77.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	121		1.08	2.58
Barium	7440-39-3	214		0.110	0.644
Boron	7440-42-8	118		5.80	25.8
Cadmium	7440-43-9	120		0.0842	0.644
Chromium	7440-47-3	127		0.276	1.29
Cobalt	7440-48-4	128		0.228	1.29
Lead	7439-92-1	154		0.420	0.644
Lithium	7439-93-2	136		0.522	6.44
Selenium	7782-49-2	108		1.38	2.58
Silver	7440-22-4	24.4		0.164	1.29

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-6	**SDG:**	L1838014
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321133005	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:30
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	67.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	142		1.25	2.98
Barium	7440-39-3	184		0.126	0.744
Boron	7440-42-8	130		6.69	29.8
Cadmium	7440-43-9	133		0.0971	0.744
Chromium	7440-47-3	137		0.318	1.49
Cobalt	7440-48-4	147		0.263	1.49
Lead	7439-92-1	165		0.485	0.744
Lithium	7439-93-2	158		0.603	7.44
Selenium	7782-49-2	131		1.59	2.98
Silver	7440-22-4	28.7		0.189	1.49

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-9	**SDG:**	L1838014
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321134009	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:40
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	77.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	124		1.08	2.58
Barium	7440-39-3	222		0.110	0.644
Boron	7440-42-8	117		5.80	25.8
Cadmium	7440-43-9	122		0.0842	0.644
Chromium	7440-47-3	129		0.276	1.29
Cobalt	7440-48-4	132		0.228	1.29
Lead	7439-92-1	163		0.420	0.644
Lithium	7439-93-2	138		0.522	6.44
Selenium	7782-49-2	110		1.38	2.58
Silver	7440-22-4	24.9		0.164	1.29

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-4	**SDG:**	L1838014
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321131813	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:18
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	67.2	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	141		1.25	2.98
Barium	7440-39-3	182		0.126	0.744
Boron	7440-42-8	134		6.69	29.8
Cadmium	7440-43-9	133		0.0971	0.744
Chromium	7440-47-3	137		0.318	1.49
Cobalt	7440-48-4	147		0.263	1.49
Lead	7439-92-1	165		0.485	0.744
Lithium	7439-93-2	161		0.603	7.44
Selenium	7782-49-2	134		1.59	2.98
Silver	7440-22-4	27.6		0.189	1.49

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-7	**SDG:**	L1838014
Client Sample ID:	PS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321133327	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:33
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	77.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	117		1.08	2.58
Barium	7440-39-3	215		0.110	0.644
Boron	7440-42-8	114		5.80	25.8
Cadmium	7440-43-9	111		0.0842	0.644
Chromium	7440-47-3	118		0.276	1.29
Cobalt	7440-48-4	123		0.228	1.29
Lead	7439-92-1	148		0.420	0.644
Lithium	7439-93-2	130		0.522	6.44
Selenium	7782-49-2	111		1.38	2.58
Silver	7440-22-4	22.8		0.164	1.29

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189523-3	**SDG:**	L1838014
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321131634	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 07:41
Analytical Batch:	WG2473543	**Analysis Date/Time:**	03/21/25 13:16
Dilution Factor:	5	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.53 g
Total Solids (%):	67.2	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result (dry)** *mg/kg*	**Qualifier**	**MDL (dry)** *mg/kg*	**RDL (dry)** *mg/kg*
Arsenic	7440-38-2	U		6.23	14.9
Barium	7440-39-3	55.2		0.632	3.72
Boron	7440-42-8	U		33.5	149
Cadmium	7440-43-9	U		0.486	3.72
Chromium	7440-47-3	5.78	J	1.59	7.44
Cobalt	7440-48-4	5.40	J	1.32	7.44
Lead	7439-92-1	25.3		2.42	3.72
Lithium	7439-93-2	4.20	J	3.02	37.2
Selenium	7782-49-2	U		7.96	14.9
Silver	7440-22-4	1.24	J	0.945	7.44

CALIBRATION VERIFICATION

SDG:	L1838014	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A
Concentration Units:	mg/l		

		ICV				ICVLL				CCV		
Sample ID:		ICP160321250855				ICP160321250904				ICP160321251308		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.02498	102	1.750000	0.01	0.01079751	108	25.100000	1	0.9966275	99.70	2.310000
BARIUM	1	1.029953	103	0.823000	0.0050	0.005599951	112	4.410000	0.50	0.5058902	101	0.482000
BORON	1	0.9993199	99.90	0.745000	0.20	0.2031552	102	1.650000	1	1.01658	102	0.785000
CADMIUM	1	1.029156	103	1.150000	0.0020	0.001744789	87.20	8.360000	0.50	0.4934485	98.70	0.638000
CHROMIUM	1	0.9987973	99.90	1.130000	0.01	0.00938971	93.90	9.270000	1	0.9924139	99.20	0.216000
COBALT	1	0.9537096	95.40	1.010000	0.01	0.00905538	90.60	20.600000	1	0.9783714	97.80	0.330000
LEAD	1	0.9998232	100	1.040000	0.0050	0.005773866	115	83.800000	0.50	0.4978858	99.60	0.526000
LITHIUM	1	1.001239	100	1.250000	0.0150	0.01442687	96.20	30.100000	1	1.035252	104	0.079800
SELENIUM	1	0.9989623	99.90	0.373000	0.01	0.01071712	107	18.000000	1	0.9739736	97.40	2.260000
SILVER	1	0.9815322	98.20	0.826000	0.0050	0.005941825	119	10.500000	0.50	0.5086542	102	1.200000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

CALIBRATION VERIFICATION

SDG:	L1838014	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A
Concentration Units:	mg/l		

		CCV				CCV				CCV		
Sample ID:		ICP160321251336				ICP160321251356				ICP160321251415		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.00563	101	0.323000	1	1.008397	101	1.070000	1	0.9951356	99.50	0.781000
BARIUM	0.50	0.5125399	103	0.683000	0.50	0.5175546	104	0.529000	0.50	0.5119145	102	0.522000
BORON	1	1.008242	101	0.624000	1	1.005445	101	0.698000	1	1.007778	101	0.491000
CADMIUM	0.50	0.496423	99.30	0.413000	0.50	0.5007872	100	0.895000	0.50	0.4958484	99.20	0.365000
CHROMIUM	1	1.001227	100	0.797000	1	1.00774	101	0.816000	1	0.9929819	99.30	0.529000
COBALT	1	0.9817812	98.20	0.837000	1	0.9845629	98.50	0.753000	1	0.9869878	98.70	0.766000
LEAD	0.50	0.4901925	98	1.100000	0.50	0.5023758	100	0.961000	0.50	0.4954835	99.10	0.596000
LITHIUM	1	1.021386	102	0.744000	1	1.019111	102	0.855000	1	1.021435	102	0.309000
SELENIUM	1	0.9926148	99.30	1.160000	1	0.9960301	99.60	0.886000	1	0.9990789	99.90	2.050000
SILVER	0.50	0.5135996	103	0.256000	0.50	0.5190796	104	0.513000	0.50	0.5160791	103	1.280000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

CALIBRATION VERIFICATION

SDG:	L1838014	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A
Concentration Units:	mg/l		

	CCVLL				CCVLL				CCVLL			
Sample ID:	ICP160321251543				ICP160321251552				ICP160321251539			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	0.01	0.01033627	103	47.700000	0.01	0.01241518	124	49.400000				
BARIUM	0.0050	0.00548305	110	5.360000	0.0050	0.005425338	109	0.767000				
BORON	0.20	0.2005224	100	0.311000	0.20	0.2053369	103	1.820000				
CADMIUM	0.0020	0.001955071	97.80	26.800000	0.0020	0.001559242	78	51.500000				
CHROMIUM	0.01	0.009837807	98.40	15.500000	0.01	0.01104435	110	2.950000	0.01	-0.003689649	0	103.000000
COBALT	0.01	0.007897482	79	3.290000	0.01	0.008823406	88.20	12.400000	0.01	-0.007394036	0	122.000000
LEAD	0.0050	0.005150626	103	30.000000	0.0050	0.005269866	105	47.800000	0.0050	0.004000752	80	130.000000
LITHIUM	0.0150	0.01899758	127	32.000000	0.0150	0.01950312	130	18.400000				
SELENIUM	0.01	-0.001430389	0	341.000000	0.01	0.007672601	76.70	82.400000				
SILVER	0.0050	0.006398924	128	14.200000	0.0050	0.006428095	129	26.100000	0.0050	-0.007427886	0	112.000000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

SDG:	L1838014	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250321085943		20250321130952		20250321131134		20250321133829	
Analyte	mg/l		mg/l		mg/kg		mg/l	
ARSENIC	-0.0006736891	U	0.0005257374	U	U		0.00102828	U
BARIUM	-0.00005799971	U	0.0004428523	U	U		0.0005155244	U
BORON	-0.00342413	U	0.0002413195	U	U		0.001462457	U
CADMIUM	0.0001307474	U	-0.0001563555	U	U		-0.0001435585	U
CHROMIUM	0.0004348755	U	0.001123587	U	U		0.000580821	U
COBALT	0.0005244144	U	-0.0002055363	U	U		-0.0006608877	U
LEAD	0.00120905	U	0.003481061	U	U		0.001503785	U
LITHIUM	0.0003221891	U	0.003826582	U	U		0.004532977	U
SELENIUM	-0.002132518	U	-0.005649366	U	U		-0.0008025765	U
SILVER	0.0004579817	U	0.001318456	U	U		0.0008789422	U

SDG:	L1838014	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250321135827		20250321141648	
Analyte	mg/l		mg/l	
ARSENIC	0.00210164	U	0.0007633588	U
BARIUM	0.0005458413	U	0.0003410128	U
BORON	-0.0005150835	U	0.0001688894	U
CADMIUM	-0.0002345511	U	0.0000006997638	U
CHROMIUM	0.0005571096	U	0.004025748	U
COBALT	-0.0001386139	U	-0.0006344727	U
LEAD	-0.002103825	U	0.001476708	U
LITHIUM	0.001193163	U	0.002111685	U
SELENIUM	-0.005487061	U	0.003864727	U
SILVER	-0.000134835	U	0.00118328	U

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1838014	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/21/25 09:06
Instrument Run:	032125ICP16A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	509.1013	102	500	508.1369	102
ANTIMONY	0	0.006447154		0.50	0.495221	99
ARSENIC	0	-0.004907903		0.50	0.4935868	98.70
BARIUM	0	0.0018303		0.50	0.5033935	101
BERYLLIUM	0	0.0007008089		0.50	0.5020147	100
BORON	0	-0.03529493		1	0.9730376	97.30
CADMIUM	0	-0.0007914524		1	1.001625	100
CALCIUM	500	511.6463	102	500	512.776	103
CERIUM	0	0.08687797		0	0.1076273	
CHROMIUM	0	-0.005823406		0.50	0.4835681	96.70
COBALT	0	0.001132004		0.50	0.5082139	102
COPPER	0	0.01139299		0.50	0.5248616	105
IRON	200	204.2666	102	200	203.827	102
LANTHANUM	0	-0.001980646		0	-0.006128269	
LEAD	0	-0.00001767799		1	1.003979	100
LITHIUM	0	0.01022379		0	0.003950866	
MAGNESIUM	500	524.8626	105	500	522.573	105
MANGANESE	0	-0.008460159		0.50	0.5000247	100
MOLYBDENUM	0	0.001139825		0.50	0.4905902	98.10
NICKEL	0	0.00004664138		1	1.016567	102
PHOSPHORUS	0	0.007550403		0	0.002309558	
POTASSIUM	0	0.06504105		0	0.05152367	
SELENIUM	0	-0.0006311484		0.50	0.4891785	97.80
SILICON	0	-0.002068487		1	0.9595425	96
SILVER	0	0.004693209		1	1.00145	100
SODIUM	0	0.02404681		0	0.06280299	
STRONTIUM	0	0.005731087		0	0.006023902	
SULFUR	0	-0.004359289		0	0.004478473	
THALLIUM	0	-0.008104253		0.50	0.4847077	96.90
TIN	0	-0.0009146921		0.50	0.4994098	99.90
TITANIUM	0	-0.003497506		0.50	0.4897595	98
VANADIUM	0	0.007661386		0.50	0.4921151	98.40
ZINC	0	0.0109761		1	1.019194	102

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1838014	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/21/25 15:58
Instrument Run:	032125ICP16A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	510.7923	102	500	509.9926	102
ANTIMONY	0	0.005589612		0.50	0.4857457	97.10
ARSENIC	0	0.01085256		0.50	0.5065857	101
BARIUM	0	0.002219882		0.50	0.5016722	100
BERYLLIUM	0	0.0006624589		0.50	0.5059382	101
BORON	0	-0.03585051		1	0.9782687	97.80
CADMIUM	0	-0.001678091		1	0.9761794	97.60
CALCIUM	500	516.382	103	500	513.1524	103
CERIUM	0	-0.05867328		0	-0.06015679	
CHROMIUM	0	-0.003467799		0.50	0.4781931	95.60
COBALT	0	-0.0002812261		0.50	0.508864	102
COPPER	0	0.01321457		0.50	0.5193552	104
IRON	200	203.5232	102	200	202.395	101
LANTHANUM	0	0.00339477		0	-0.002720977	
LEAD	0	0.002625142		1	0.9784631	97.80
LITHIUM	0	0.001072101		0	0.00351023	
MAGNESIUM	500	527.6024	106	500	524.521	105
MANGANESE	0	-0.007410586		0.50	0.499555	99.90
MOLYBDENUM	0	0.002875937		0.50	0.4768171	95.40
NICKEL	0	0.001347976		1	1.003753	100
PHOSPHORUS	0	0.002587286		0	0.004151974	
POTASSIUM	0	-0.01520476		0	-0.06919999	
SELENIUM	0	-0.01461459		0.50	0.4918897	98.40
SILICON	0	0.003685884		1	0.9283568	92.80
SILVER	0	0.005154903		1	0.9435174	94.40
SODIUM	0	-0.0681063		0	-0.0369445	
STRONTIUM	0	0.006022719		0	0.006160362	
SULFUR	0	-0.008632139		0	-0.005977017	
THALLIUM	0	-0.006196374		0.50	0.4638389	92.80
TIN	0	-0.0001717014		0.50	0.4870718	97.40
TITANIUM	0	-0.004286111		0.50	0.491764	98.40
VANADIUM	0	0.005867904		0.50	0.492972	98.60
ZINC	0	0.0113127		1	1.016482	102

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838014-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.:
R4189523-5
R4189523-6

MS Sample / File ID: R4189523-5 / 20250321131953
MSD Sample / File ID: R4189523-6 / 20250321133005
OS Sample / File ID: L1838002-01 / 20250321131454
Instrument ID: ICP16
Analytical Method: 6010D

SDG: L1838014
Analytical Batch: WG2473543
Matrix: Solid

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	149	2.22	140	142	92.9	94.3	1	75.0 - 125	1.43	20
Barium	149	50.4	183	184	88.8	90.0	1	75.0 - 125	0.934	20
Boron	149	U	132	130	88.9	87.6	1	75.0 - 125	1.50	20
Cadmium	149	0.243	133	133	89.1	89.5	1	75.0 - 125	0.454	20
Chromium	149	4.69	136	137	88.4	88.9	1	75.0 - 125	0.540	20
Cobalt	149	5.11	147	147	95.6	95.6	1	75.0 - 125	0.0519	20
Lead	149	24.5	165	165	94.2	94.7	1	75.0 - 125	0.513	20
Lithium	149	3.12	163	158	108	104	1	75.0 - 125	2.95	20
Selenium	149	U	131	131	87.8	87.9	1	75.0 - 125	0.105	20
Silver	29.8	0.889	28.6	28.7	93.2	93.3	1	75.0 - 125	0.0991	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838014-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.:
R4189523-8
R4189523-9

MS Sample / File ID: R4189523-8 / 20250321133506
MSD Sample / File ID: R4189523-9 / 20250321134009
OS Sample / File ID: L1838014-01 / 20250321133145
Instrument ID: ICP16
Analytical Method: 6010D

SDG: L1838014
Analytical Batch: WG2473543
Matrix: Solid

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	129	2.27	121	124	92.1	94.4	1	75.0 - 125	2.44	20
Barium	129	106	214	222	84.0	90.2	1	75.0 - 125	3.66	20
Boron	129	U	118	117	91.4	90.8	1	75.0 - 125	0.599	20
Cadmium	129	0.156	120	122	92.6	94.2	1	75.0 - 125	1.67	20
Chromium	129	6.67	127	129	93.0	94.9	1	75.0 - 125	1.97	20
Cobalt	129	5.82	128	132	94.6	97.9	1	75.0 - 125	3.30	20
Lead	129	32.3	154	163	94.2	101	1	75.0 - 125	5.61	20
Lithium	129	1.69	136	138	105	106	1	75.0 - 125	1.30	20
Selenium	129	U	108	110	83.9	85.6	1	75.0 - 125	2.00	20
Silver	25.8	0.558	24.4	24.9	92.6	94.5	1	75.0 - 125	1.97	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1838014-01,02,03,04,05,06,07,08,09,10,11

PS Sample / File ID:	R4189523-4 / 20250321131813	**SDG:**	L1838014
OS Sample / File ID:	L1838002-01 / 20250321131454	**Analytical Batch:**	WG2473543
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		%	%		%	%	%
Arsenic	149	2.22	141		93.6		1	80.0 - 120		
Barium	149	50.4	182		88.7		1	80.0 - 120		
Boron	149	U	134		90.0		1	80.0 - 120		
Cadmium	149	0.243	133		89.1		1	80.0 - 120		
Chromium	149	4.69	137		88.8		1	80.0 - 120		
Cobalt	149	5.11	147		95.5		1	80.0 - 120		
Lead	149	24.5	165		94.3		1	80.0 - 120		
Lithium	149	3.12	161		106		1	80.0 - 120		
Selenium	149	U	134		90.2		1	80.0 - 120		
Silver	29.8	0.889	27.6		89.6		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1838014-01,02,03,04,05,06,07,08,09,10,11

PS Sample / File ID:	R4189523-7 / 20250321133327	**SDG:**	L1838014
OS Sample / File ID:	L1838014-01 / 20250321133145	**Analytical Batch:**	WG2473543
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Arsenic	129	2.27	117		88.8		1	80.0 - 120		
Barium	129	106	215		85.0		1	80.0 - 120		
Boron	129	U	114		88.4		1	80.0 - 120		
Cadmium	129	0.156	111		86.2		1	80.0 - 120		
Chromium	129	6.67	118		86.7		1	80.0 - 120		
Cobalt	129	5.82	123		91.2		1	80.0 - 120		
Lead	129	32.3	148		89.6		1	80.0 - 120		
Lithium	129	1.69	130		99.2		1	80.0 - 120		
Selenium	129	U	111		85.8		1	80.0 - 120		
Silver	25.8	0.558	22.8		86.4		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1838014-01,02,03,04,05,06,07,08,09,10,11

SAMPLE NO.:
R4189523-2

LCS Sample / File ID:	R4189523-2 / 20250321131314	**SDG:**	L1838014
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2473543
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Arsenic	100	96.2		96.2		80.0 - 120		
Barium	100	98.1		98.1		80.0 - 120		
Boron	100	94.8		94.8		80.0 - 120		
Cadmium	100	95.0		95.0		80.0 - 120		
Chromium	100	93.2		93.2		80.0 - 120		
Cobalt	100	89.8		89.8		80.0 - 120		
Lead	100	92.6		92.6		80.0 - 120		
Lithium	100	98.4		98.4		80.0 - 120		
Selenium	100	94.3		94.3		80.0 - 120		
Silver	20.0	18.6		93.0		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4189523-3 / 20250321131634	**SDG:**	L1838014
OS Sample / File ID:	L1838002-01 / 20250321131454	**Analytical Batch:**	WG2473543
Lab File ID:	20250321131634	**Dilution Factor:**	5
Instrument ID:	ICP16	**Matrix:**	Solid
Analytical Method:	6010D		

Analyte	OS Result (dry)	SD Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Arsenic	2.22	U	0.000	10
Barium	50.4	55.2	9.52	10
Boron	U	U	0.000	10
Cadmium	0.243	U	0.000	10
Chromium	4.69	5.78	23.3	10
Cobalt	5.11	5.40	5.54	10
Lead	24.5	25.3	3.01	10
Lithium	3.12	4.20	34.5	10
Selenium	U	U	0.000	10
Silver	0.889	1.24	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1838014-01,02,03,04,05,06,07,08,09,10,11 **Analytical Method:** 6010D
Matrix: Solid **Prep Method:** 3051

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Cobalt	7440-48-4		228.6160	0.1770	1
Lead	7439-92-1		220.3530	0.3260	0.50
Lithium	7439-93-2		670.7840	0.4050	5
Selenium	7782-49-2		196.09	1.07	2
Silver	7440-22-4		328.0680	0.1270	1
Arsenic	7440-38-2		189.0420	0.8370	2
Barium	7440-39-3		233.5270	0.0850	0.50
Boron	7440-42-8		249.6780	4.50	20
Cadmium	7440-43-9		228.8020	0.0653	0.50
Chromium	7440-47-3		267.7160	0.2140	1

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1838014	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	02/03/25 09:04

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	200
POTASSIUM	500
SELENIUM	10
SILICON	100
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

ANALYSIS LOG

SDG:	L1838014	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Calibration Start Date:**	03/21/25 08:27
Analytical Run:	032125ICP16A	**Calibration End Date:**	03/21/25 08:37

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP160321250826	20250321082614	03/21/25 08:26		
CAL	STD1	20250321082752	03/21/25 08:27		
CAL	STD2	20250321082930	03/21/25 08:29		
CAL	STD3	20250321083108	03/21/25 08:31		
CAL	STD4	20250321083245	03/21/25 08:32		
CAL	STD5	20250321083423	03/21/25 08:34		
CAL	STD6	20250321083600	03/21/25 08:36		
ICV	ICP160321250855	20250321085537	03/21/25 08:55		
ICB	ICP160321250859	20250321085943	03/21/25 08:59		
ICVLL	ICP160321250904	20250321090436	03/21/25 09:04		
ICSA	ICP160321250906	20250321090614	03/21/25 09:06		
ICSAB	ICP160321250907	20250321090752	03/21/25 09:07		
CCV	ICP160321251308	20250321130812	03/21/25 13:08		
CCB	ICP160321251309	20250321130952	03/21/25 13:09		
BLANK	R4189523-1	20250321131134	03/21/25 13:11	1	WG2473543
LCS	R4189523-2	20250321131314	03/21/25 13:13	1	WG2473543
OS	L1838002-01	20250321131454	03/21/25 13:14		
L1838002-01	L1838002-01	20250321131454	03/21/25 13:14	1	WG2473543
SD	R4189523-3	20250321131634	03/21/25 13:16	5	WG2473543
PS	R4189523-4	20250321131813	03/21/25 13:18	1	WG2473543
MS	R4189523-5	20250321131953	03/21/25 13:19	1	WG2473543
MSD	R4189523-6	20250321133005	03/21/25 13:30	1	WG2473543
MONTROSE_SCHOOL_DITCH_S_SO	L1838014-01	20250321133145	03/21/25 13:31	1	WG2473543
PS	R4189523-7	20250321133327	03/21/25 13:33	1	WG2473543
MS	R4189523-8	20250321133506	03/21/25 13:35	1	WG2473543
CCV	ICP160321251336	20250321133648	03/21/25 13:36		
CCB	ICP160321251338	20250321133829	03/21/25 13:38		
MSD	R4189523-9	20250321134009	03/21/25 13:40	1	WG2473543
L1838002-02	L1838002-02	20250321134149	03/21/25 13:41	1	WG2473543
L1838002-03	L1838002-03	20250321134329	03/21/25 13:43	1	WG2473543
L1838002-04	L1838002-04	20250321134508	03/21/25 13:45	1	WG2473543
L1838002-05	L1838002-05	20250321134648	03/21/25 13:46	1	WG2473543
L1838002-06	L1838002-06	20250321134828	03/21/25 13:48	1	WG2473543
L1838002-07	L1838002-07	20250321135007	03/21/25 13:50	1	WG2473543
L1838002-08	L1838002-08	20250321135148	03/21/25 13:51	1	WG2473543
L1838002-09	L1838002-09	20250321135327	03/21/25 13:53	1	WG2473543
MONTROSE_SCHOOL_DRAINS_S_SO	L1838014-02	20250321135507	03/21/25 13:55	1	WG2473543
CCV	ICP160321251356	20250321135647	03/21/25 13:56		
CCB	ICP160321251358	20250321135827	03/21/25 13:58		
650_851_S_SO	L1838014-03	20250321140007	03/21/25 14:00	1	WG2473543
601_T_S_SO	L1838014-04	20250321140147	03/21/25 14:01	1	WG2473543
250_651_S_SO	L1838014-05	20250321140327	03/21/25 14:03	1	WG2473543
DAVIS_SCHOOL_DITCH_S_SO	L1838014-06	20250321140507	03/21/25 14:05	1	WG2473543
DAVIS_SCHOOL_DRAINS_S_SO	L1838014-07	20250321140647	03/21/25 14:06	1	WG2473543
DAVIS_SCHOOL_FRONT_PLAYGROUND_S_SO	L1838014-08	20250321140827	03/21/25 14:08	1	WG2473543
DAVIS_SCHOOL_WPLAYGROUND_S_SO	L1838014-09	20250321141006	03/21/25 14:10	1	WG2473543

ANALYSIS LOG

SDG:	L1838014	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Calibration Start Date:**	03/21/25 08:27
Analytical Run:	032125ICP16A	**Calibration End Date:**	03/21/25 08:37

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
DAVIS_SCHOOL_TRACK_S_SO	L1838014-10	20250321141147	03/21/25 14:11	1	WG2473543
DAVIS_SCHOOL_DUP_S_SO	L1838014-11	20250321141327	03/21/25 14:13	1	WG2473543
CCV	ICP160321251415	20250321141507	03/21/25 14:15		
CCB	ICP160321251416	20250321141648	03/21/25 14:16		
CCVLL	ICP160321251539	20250321153921	03/21/25 15:39		
CCVLL	ICP160321251543	20250321154343	03/21/25 15:43		
CCVLL	ICP160321251552	20250321155226	03/21/25 15:52		
ICSA	ICP160321251558	20250321155850	03/21/25 15:58		
ICSAB	ICP160321251600	20250321160033	03/21/25 16:00		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838014	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.009450952	94.50	0.20	.2024679	101
BARIUM	0.0050	.005525024	111	0.10	.1009626	101
BORON	0.20	.2006858	100			
CADMIUM	0.0020	.001846044	92.30	0.10	.1003898	100
CHROMIUM	0.01	.009238352	92.40	0.20	.1931434	96.60
COBALT	0.01	.008028498	80.30	0.20	.184132	92.10
LEAD	0.0050	.005306873	106	0.10	.09844949	98.40
LITHIUM	0.0150	.01743911	116	0.20	.1861196	93.10
SELENIUM	0.01	.008380011	83.80	0.20	.2045207	102
SILVER	0.0050	.005412618	108	0.10	.09865973	98.70
File ID:		20250321082752			20250321082930	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838014	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.4118118	103	1	.967025	96.70
BARIUM	0.20	.2061333	103	0.50	.4837596	96.80
BORON	0.40	.4037297	101	1	.946158	94.60
CADMIUM	0.20	.2063865	103	0.50	.4797405	95.90
CHROMIUM	0.40	.3991954	99.80	1	.9358874	93.60
COBALT	0.40	.3853479	96.30	1	.92271	92.30
LEAD	0.20	.2011952	101	0.50	.4749542	95
LITHIUM	0.40	.3846565	96.20	1	.9284183	92.80
SELENIUM	0.40	.4096343	102	1	.9881575	98.80
SILVER	0.20	.2047549	102	0.50	.4846204	96.90
File ID:		20250321083108			20250321083245	

INITIAL CALIBRATION RECOVERY

SDG:	L1838014	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.02905	101	4	3.992415	99.80
BARIUM	1	1.010855	101	2	1.99797	99.90
BORON	2	2.008322	100	4	4.008892	100
CADMIUM	1	1.002167	100	2	2.003323	100
CHROMIUM	2	1.991019	99.60	4	4.020944	101
COBALT	2	1.984644	99.20	4	4.029264	101
LEAD	1	1.003098	100	2	2.00467	100
LITHIUM	2	2.040229	102			
SELENIUM	2	2.047754	102	4	3.977898	99.40
SILVER	1	1.006216	101	2	2.000327	100
File ID:		20250321083423			20250321083600	

16A-IN

INITIAL CALIBRATION

SDG:	L1838014	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999917	197.1366	1.067309
BARIUM	233.527	8	5	0.999934	6014.184	-8.157375
BORON	249.678	8	5	0.999869	208.6249	-0.152962
CADMIUM	228.802	8	5	0.999928	2125.431	8.82258
CHROMIUM	267.716	8	5	0.999821	2329.913	-8.855238
COBALT	228.616	8	5	0.999713	1087.384	-6.514733
LEAD	220.353	8	5	0.999898	464.8921	0.005844
LITHIUM	670.784	8	5	0.998841	1045.406	-7.197886
SELENIUM	196.09	8	5	0.999883	89.6181	0.057566
SILVER	328.068	8	5	0.999954	3920.261	-17.79079

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

Sample ID: CALBLK Units: mg/l
Analyzed: 03/21/25 08:26 Sequence: 2 Standard ID: 25C17417

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6424.829	6395.653	6431.202	6447.633
YTTRIUM	360.073	Axial	62336.09	61924.77	63044.70	62038.79
YTTRIUM	360.073	Radial	4757.437	4750.504	4755.871	4765.938
INDIUM	230.606	Axial	1369.724	1358.868	1382.836	1367.468

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	-4.44481	-3.934405	-4.048072	-5.351959
ANTIMONY	206.833	Axial	0.2867719	1.368819	-1.054423	0.5459194
ARSENIC	189.042	Axial	1.069036	0.2284526	1.694161	1.284494
BARIUM	233.527	Axial	-8.15661	-9.128738	-5.851080	-9.490024
BERYLLIUM	313.042	Radial	2.915721	1.665842	5.567904	1.513418
BORON	249.678	Radial	-0.1529957	-0.08204279	-0.2134186	-0.1635257
CADMIUM	228.802	Axial	8.821388	9.074593	9.302446	8.087124
CALCIUM	317.933	Radial	12.14960	11.91329	10.98988	13.54564
CALCIUM	373.690	Radial	-3.06539	-2.595305	-5.251197	-1.349677
CERIUM	535.353	Radial	18.80084	14.18930	23.17141	19.04181
CHROMIUM	267.716	Axial	-8.84858	-11.67283	-7.579920	-7.293017
COBALT	228.616	Axial	-6.51179	-6.777566	-5.964110	-6.793721
COPPER	324.754	Axial	-10.9182	-9.692843	-10.35849	-12.70334
IRON	259.940	Radial	1.323707	0.7016213	2.319642	0.9498581
IRON	271.441	Radial	0.08101619	-0.2449515	0.5050385	-0.01703843
LANTHANUM	333.749	Radial	-4.34129	-4.188351	-4.022967	-4.812578
LEAD	220.353	Axial	0.01339764	-1.085656	1.423403	-0.2975537
LITHIUM	670.784	Radial	-7.19855	-4.614650	-10.19626	-6.784755
MAGNESIUM	279.079	Radial	-2.79978	-2.726832	-3.629380	-2.043147
MANGANESE	257.610	Axial	-13.5179	-16.00128	-11.40448	-13.14815
MOLYBDENUM	202.030	Axial	0.5363174	0.7372886	-0.4088458	1.280509
NICKEL	231.604	Axial	1.293252	0.6429618	1.972217	1.264577
PHOSPHORUS	177.495	Axial	1.142060	1.727614	0.7998718	0.8986945
POTASSIUM	766.490	Radial	-20.8813	-26.47564	-18.73758	-17.43089
SELENIUM	196.090	Axial	0.05815937	-0.2291777	0.2724611	0.1311947
SILICON	251.611	Axial	10.39873	10.46849	9.168411	11.55928
SILVER	328.068	Axial	-17.7746	-21.19286	-15.37203	-16.75919
SODIUM	589.592	Radial	-5.87708	-3.181940	-8.418125	-6.031183
SODIUM	818.326	Radial	6.167551	4.252190	8.466132	5.784332
STRONTIUM	421.552	Radial	6.974523	4.621881	10.41294	5.888747
SULFUR	182.034	Axial	4.026892	4.231021	3.869388	3.980266
THALLIUM	190.856	Axial	-0.8048032	-0.5227779	-0.5342913	-1.357340
TIN	189.989	Axial	-0.6106080	-0.4356626	-0.7221811	-0.6739803
TITANIUM	334.941	Radial	-2.88401	-3.596819	-1.864618	-3.190600
VANADIUM	292.402	Radial	-1.56583	1.834154	-3.935609	-2.596062
ZINC	206.200	Axial	3.589924	5.051490	1.883372	3.834910

Sample ID: STD1 Units: mg/l
Analyzed: 03/21/25 08:27 Sequence: 3 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6432.950	6524.908	6401.803	6372.140
YTTRIUM	360.073	Axial	62056.02	62513.13	62203.54	61451.38
YTTRIUM	360.073	Radial	4749.723	4769.699	4755.866	4723.605
INDIUM	230.606	Axial	1338.354	1349.427	1340.798	1324.836

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	6.200999	7.095221	6.775236	4.732540
ANTIMONY	206.833	Axial	1.569521	1.224318	1.167964	2.316280
ARSENIC	189.042	Axial	2.930386	2.382507	3.487799	2.920853
BARIUM	233.527	Axial	25.08455	22.72164	26.99567	25.53635
BERYLLIUM	313.042	Radial	36.12605	37.91883	34.58401	35.87531
BORON	249.678	Radial	41.64872	41.12787	43.24925	40.56904
CADMIUM	228.802	Axial	12.76019	12.56668	13.22672	12.48719
CALCIUM	317.933	Radial	214.0502	215.4938	219.6161	207.0408
CHROMIUM	267.716	Axial	12.68217	12.69904	11.41777	13.92969
COBALT	228.616	Axial	2.156904	1.301374	1.580731	3.588607
COPPER	324.754	Axial	39.17995	38.59421	37.02189	41.92375
IRON	259.940	Radial	27.64438	28.92819	27.23229	26.77265
LEAD	220.353	Axial	2.415023	2.231770	2.404710	2.608590
LITHIUM	670.784	Radial	11.02488	15.29539	9.293584	8.485669
MAGNESIUM	279.079	Radial	85.60847	86.10511	84.84821	85.87211
MANGANESE	257.610	Axial	194.5360	197.7654	192.8585	192.9842
MOLYBDENUM	202.030	Axial	4.057809	5.010582	2.948458	4.214389
NICKEL	231.604	Axial	9.610907	9.702970	9.525950	9.603803
PHOSPHORUS	177.495	Axial	19.99240	19.44649	20.38073	20.14999
POTASSIUM	766.490	Radial	81.32906	83.45583	77.42248	83.10888
SELENIUM	196.090	Axial	0.8066988	0.5186815	0.4628996	1.438515
SILICON	251.611	Axial	207.4242	206.1249	209.9785	206.1691
SILVER	328.068	Axial	3.393386	2.873434	-0.5732989	7.880023
SODIUM	589.592	Radial	375.8394	379.5470	375.3674	372.6039
STRONTIUM	421.552	Radial	112.3967	113.8570	114.5555	108.7776
SULFUR	182.034	Axial	52.59487	53.20108	51.96951	52.61400
THALLIUM	190.856	Axial	0.8393323	0.4092386	1.867231	0.2415271
TIN	189.989	Axial	19.24580	19.33619	18.43702	19.96421
TITANIUM	334.941	Radial	80.09392	79.93718	79.66636	80.67823
VANADIUM	292.402	Radial	10.53250	10.81689	9.608843	11.17178
ZINC	206.200	Axial	128.7704	128.5442	128.2273	129.5399

Sample ID: STD2 Units: mg/l
Analyzed: 03/21/25 08:29 Sequence: 4 Standard ID: 25C19782

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6119.234	6056.828	6067.668	6233.206
YTTRIUM	360.073	Axial	58820.80	58121.73	58705.16	59635.50
YTTRIUM	360.073	Radial	4632.701	4681.332	4659.904	4556.868
INDIUM	230.606	Axial	1248.749	1238.880	1246.142	1261.227

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	108.0358	109.7872	108.1365	106.1836
ANTIMONY	206.833	Axial	14.90608	13.35202	15.42859	15.93763
ARSENIC	189.042	Axial	39.02740	39.95280	37.78685	39.34256
BARIUM	233.527	Axial	570.5423	563.6534	568.4521	579.5214
BERYLLIUM	313.042	Radial	613.2055	614.4797	619.6223	605.5145
CADMIUM	228.802	Axial	211.6046	211.1655	210.3418	213.3066
CALCIUM	317.933	Radial	1998.512	1978.236	2045.884	1971.417
CHROMIUM	267.716	Axial	420.2105	410.1849	418.1272	432.3193
COBALT	228.616	Axial	176.6040	175.5502	174.5154	179.7462
COPPER	324.754	Axial	864.4999	850.3099	865.7962	877.3935
IRON	259.940	Radial	516.3473	508.4194	526.1949	514.4276
LEAD	220.353	Axial	41.73446	41.00071	41.49130	42.71136
LITHIUM	670.784	Radial	182.4531	180.8697	186.8341	179.6555
MAGNESIUM	279.079	Radial	166.7076	168.5867	167.7202	163.8158
MANGANESE	257.610	Axial	4025.951	3984.141	4004.693	4089.019
MOLYBDENUM	202.030	Axial	32.81555	33.29871	31.78748	33.36046
NICKEL	231.604	Axial	168.8406	168.6101	165.5971	172.3146
PHOSPHORUS	177.495	Axial	37.33936	37.31106	37.10965	37.59736
POTASSIUM	766.490	Radial	903.9409	908.6905	914.5281	888.6040
SELENIUM	196.090	Axial	17.51971	17.19941	16.63503	18.72470
SILICON	251.611	Axial	410.5769	382.1591	386.3964	463.1751
SILVER	328.068	Axial	348.1531	345.0098	349.7181	349.7313
SODIUM	589.592	Radial	3558.911	3583.898	3582.809	3510.028
STRONTIUM	421.552	Radial	2073.224	2052.249	2117.786	2049.638
THALLIUM	190.856	Axial	37.33314	36.78040	37.08609	38.13293
TIN	189.989	Axial	38.44694	38.64723	38.10303	38.59055
TITANIUM	334.941	Radial	315.2870	316.5396	317.2146	312.1068
VANADIUM	292.402	Radial	115.0034	115.1651	117.6520	112.1932
ZINC	206.200	Axial	466.0173	470.4622	462.3165	465.2731

Sample ID: STD3 Units: mg/l
Analyzed: 03/21/25 08:31 Sequence: 5 Standard ID: 25C19783

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6168.644	6138.412	6193.755	6173.766
YTTRIUM	360.073	Axial	59269.58	58778.03	59627.36	59403.36
YTTRIUM	360.073	Radial	4628.392	4618.269	4638.311	4628.597
INDIUM	230.606	Axial	1247.037	1232.356	1262.706	1246.048

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	216.3137	219.0183	216.2993	213.6234
ANTIMONY	206.833	Axial	28.52086	28.40791	27.94056	29.21411
ARSENIC	189.042	Axial	78.96785	79.57690	78.31465	79.01201
BARIUM	233.527	Axial	1182.475	1172.664	1195.633	1179.129
BERYLLIUM	313.042	Radial	1251.905	1253.670	1253.217	1248.828
BORON	249.678	Radial	81.79547	80.38306	81.92845	83.07489
CADMIUM	228.802	Axial	429.6442	426.8491	434.0636	428.0198
CALCIUM	317.933	Radial	4109.034	4097.387	4123.312	4106.403
CHROMIUM	267.716	Axial	884.5409	867.3674	901.4331	884.8221
COBALT	228.616	Axial	375.5424	373.8283	379.0577	373.7412
COPPER	324.754	Axial	1778.072	1768.432	1771.924	1793.859
IRON	259.940	Radial	1031.815	1030.207	1033.638	1031.600
LEAD	220.353	Axial	85.16221	83.20215	85.60276	86.68173
LITHIUM	670.784	Radial	384.2051	391.3027	383.5577	377.7547
MAGNESIUM	279.079	Radial	341.8890	338.1657	344.5703	342.9308
MANGANESE	257.610	Axial	8345.732	8267.636	8439.069	8330.491
MOLYBDENUM	202.030	Axial	67.82155	66.47021	68.33306	68.66137
NICKEL	231.604	Axial	347.4458	344.1056	350.2163	348.0155
PHOSPHORUS	177.495	Axial	75.82862	75.43173	76.19015	75.86398
POTASSIUM	766.490	Radial	1859.633	1867.628	1857.720	1853.551
SELENIUM	196.090	Axial	35.30045	35.68179	34.88573	35.33383
SILICON	251.611	Axial	790.0977	779.1231	802.2604	788.9095
SILVER	328.068	Axial	746.2609	747.0345	747.1867	744.5615
SODIUM	589.592	Radial	7205.509	7198.348	7243.942	7174.237
SODIUM	818.326	Radial	172.0863	172.1362	173.2854	170.8373
STRONTIUM	421.552	Radial	4209.012	4205.603	4221.193	4200.239
SULFUR	182.034	Axial	99.80072	98.31494	101.3623	99.72488
THALLIUM	190.856	Axial	76.67018	76.35693	77.62676	76.02684
TIN	189.989	Axial	78.25233	77.44585	78.98419	78.32696
TITANIUM	334.941	Radial	648.5563	648.1148	651.6702	645.8839
VANADIUM	292.402	Radial	236.8021	238.3542	236.3111	235.7409
ZINC	206.200	Axial	958.8196	967.7844	945.5927	963.0818

Sample ID: STD4 Units: mg/l
Analyzed: 03/21/25 08:32 Sequence: 6 Standard ID: 25C19784

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6188.285	6111.350	6248.277	6205.228
YTTRIUM	360.073	Axial	59023.01	58284.25	59360.38	59424.39
YTTRIUM	360.073	Radial	4588.678	4613.668	4575.162	4577.203
INDIUM	230.606	Axial	1229.176	1210.219	1243.452	1233.857

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	506.6607	504.0082	509.3404	506.6335
ANTIMONY	206.833	Axial	65.29279	63.41165	65.95841	66.50830
ARSENIC	189.042	Axial	184.6343	183.7332	184.7172	185.4525
BARIUM	233.527	Axial	2794.378	2763.415	2800.681	2819.039
BERYLLIUM	313.042	Radial	2944.900	2949.298	2946.615	2938.789
BORON	249.678	Radial	190.2413	190.8279	189.8520	190.0441
CADMIUM	228.802	Axial	990.5863	981.6521	996.3187	993.7880
CALCIUM	317.933	Radial	9417.415	9385.579	9427.603	9439.063
CALCIUM	373.690	Radial	4665.341	4675.794	4661.023	4659.204
CHROMIUM	267.716	Axial	2091.840	2040.948	2106.322	2128.249
COBALT	228.616	Axial	894.4448	890.1909	891.6338	901.5098
COPPER	324.754	Axial	4103.615	4079.659	4100.532	4130.654
IRON	259.940	Radial	2393.784	2382.467	2399.523	2399.364
IRON	271.441	Radial	194.1976	195.5570	195.3293	191.7066
LEAD	220.353	Axial	198.1188	198.7309	197.1231	198.5025
LITHIUM	670.784	Radial	929.2009	933.6557	926.1194	927.8274
MAGNESIUM	279.079	Radial	799.8132	800.1810	799.6722	799.5866
MANGANESE	257.610	Axial	19797.82	19624.63	19836.81	19932.01
MOLYBDENUM	202.030	Axial	158.0396	158.2860	157.8126	158.0203
NICKEL	231.604	Axial	813.2088	801.8432	817.2447	820.5386
PHOSPHORUS	177.495	Axial	173.1512	171.2925	175.8136	172.3475
POTASSIUM	766.490	Radial	4356.359	4345.519	4374.164	4349.394
SELENIUM	196.090	Axial	85.34305	85.71392	85.52996	84.78528
SILICON	251.611	Axial	1825.945	1777.421	1849.399	1851.017
SILVER	328.068	Axial	1781.884	1781.356	1774.590	1789.706
SODIUM	818.326	Radial	390.3241	395.1302	387.7781	388.0639
STRONTIUM	421.552	Radial	9659.969	9638.767	9675.457	9665.684
SULFUR	182.034	Axial	225.7269	224.4821	226.9765	225.7219
THALLIUM	190.856	Axial	177.7247	179.2735	177.6810	176.2196
TIN	189.989	Axial	182.7743	179.9440	184.1076	184.2714
TITANIUM	334.941	Radial	1521.048	1523.645	1522.143	1517.357
VANADIUM	292.402	Radial	554.8730	555.3236	556.0707	553.2247
ZINC	206.200	Axial	2273.674	2273.435	2275.569	2272.019

Sample ID: STD5 Units: mg/l
Analyzed: 03/21/25 08:34 Sequence: 7 Standard ID: 25C19785

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6218.137	6212.293	6219.806	6222.313
YTTRIUM	360.073	Axial	58442.70	58591.26	58239.47	58497.38
YTTRIUM	360.073	Radial	4609.502	4559.346	4611.117	4658.043
INDIUM	230.606	Axial	1204.100	1204.522	1204.543	1203.236

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1081.428	1073.442	1083.411	1087.431
ANTIMONY	206.833	Axial	134.7171	134.2305	134.2931	135.6278
ARSENIC	189.042	Axial	388.1638	389.1652	389.2380	386.0883
BARIUM	233.527	Axial	5875.990	5886.596	5836.873	5904.501
BERYLLIUM	313.042	Radial	6230.549	6181.189	6230.143	6280.314
BORON	249.678	Radial	405.8000	402.0981	407.1285	408.1736
CADMIUM	228.802	Axial	2070.053	2065.934	2065.954	2078.271
CALCIUM	373.690	Radial	9789.139	9699.756	9830.645	9837.016
CHROMIUM	267.716	Axial	4481.100	4461.109	4497.745	4484.445
COBALT	228.616	Axial	1891.389	1896.583	1871.213	1906.370
COPPER	324.754	Axial	8427.715	8468.659	8344.357	8470.128
IRON	271.441	Radial	406.8121	403.9790	409.6265	406.8306
LEAD	220.353	Axial	409.9491	411.8085	406.6068	411.4319
LITHIUM	670.784	Radial	2059.533	2042.247	2060.646	2075.706
MAGNESIUM	279.079	Radial	1691.630	1671.449	1702.382	1701.060
MANGANESE	257.610	Axial	41876.25	42055.39	41551.23	42022.14
MOLYBDENUM	202.030	Axial	326.6030	326.6677	326.7000	326.4412
NICKEL	231.604	Axial	1713.439	1712.680	1714.307	1713.330
PHOSPHORUS	177.495	Axial	362.3992	365.0707	361.8440	360.2829
POTASSIUM	766.490	Radial	9268.618	9184.534	9312.601	9308.720
SELENIUM	196.090	Axial	177.6668	179.3592	176.3553	177.2859
SILICON	251.611	Axial	3855.183	3824.475	3877.346	3863.726
SILVER	328.068	Axial	3681.687	3718.103	3603.542	3723.417
SODIUM	818.326	Radial	822.9737	820.2577	825.6231	823.0403
STRONTIUM	421.552	Radial	20347.17	20037.04	20449.01	20555.45
SULFUR	182.034	Axial	474.5588	472.0459	473.6243	478.0063
THALLIUM	190.856	Axial	360.6455	360.7289	360.9880	360.2196
TIN	189.989	Axial	380.5627	379.7447	381.6326	380.3108
TITANIUM	334.941	Radial	3248.110	3191.935	3276.187	3276.208
VANADIUM	292.402	Radial	1177.157	1167.038	1183.152	1181.281
ZINC	206.200	Axial	4727.042	4747.608	4714.567	4718.951

Sample ID: STD6 Units: mg/l
Analyzed: 03/21/25 08:36 Sequence: 8 Standard ID: 25C19786

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6332.561	6255.504	6421.255	6320.923
YTTRIUM	360.073	Axial	58329.97	57570.82	59095.36	58323.75
YTTRIUM	360.073	Radial	4646.197	4622.514	4648.845	4667.231
INDIUM	230.606	Axial	1200.889	1191.877	1209.613	1201.177

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	2202.566	2200.797	2203.632	2203.268
ANTIMONY	206.833	Axial	272.1291	266.6745	278.7632	270.9496
ARSENIC	189.042	Axial	776.8090	764.0484	787.1772	779.2013
BARIUM	233.527	Axial	11835.10	11738.92	11947.76	11818.64
BERYLLIUM	313.042	Radial	12502.16	12491.53	12498.55	12516.38
BORON	249.678	Radial	816.6360	816.7785	816.7653	816.3642
CADMIUM	228.802	Axial	4205.485	4152.298	4265.338	4198.818
CALCIUM	373.690	Radial	19634.31	19555.73	19673.22	19673.99
CERIUM	535.353	Radial	875.0170	874.7027	876.2251	874.1231
CHROMIUM	267.716	Axial	9224.593	9193.558	9295.538	9184.684
COBALT	228.616	Axial	3835.861	3750.419	3917.513	3839.650
COPPER	324.754	Axial	16429.58	16127.63	16739.87	16421.24
IRON	271.441	Radial	810.6643	810.7487	810.2749	810.9693
LANTHANUM	333.749	Radial	5182.093	5211.524	5170.121	5164.634
LEAD	220.353	Axial	817.1380	799.6524	833.0827	818.6788
LITHIUM	670.784	Radial	4374.525	4350.417	4388.952	4384.206
MAGNESIUM	279.079	Radial	3390.711	3395.801	3387.181	3389.151
MANGANESE	257.610	Axial	84714.62	83399.62	85886.23	84858.01
MOLYBDENUM	202.030	Axial	656.7088	648.4998	666.8379	654.7888
NICKEL	231.604	Axial	3483.824	3459.231	3512.509	3479.733
PHOSPHORUS	177.495	Axial	735.0094	720.4752	749.5932	734.9599
POTASSIUM	766.490	Radial	18666.91	18621.09	18651.18	18728.46
SELENIUM	196.090	Axial	351.3911	351.4903	352.0262	350.6569
SILICON	251.611	Axial	7950.968	7834.548	8090.727	7927.627
SILVER	328.068	Axial	7322.069	7130.342	7522.761	7313.105
SODIUM	818.326	Radial	1677.241	1681.211	1673.404	1677.108
STRONTIUM	421.552	Radial	40928.02	40662.11	40883.23	41238.72
SULFUR	182.034	Axial	983.4750	961.4315	1000.259	988.7341
THALLIUM	190.856	Axial	718.3110	702.4248	728.2760	724.2323
TIN	189.989	Axial	758.6474	748.2859	767.5596	760.0968
TITANIUM	334.941	Radial	6521.086	6475.206	6562.965	6525.087
VANADIUM	292.402	Radial	2373.053	2377.114	2368.577	2373.469
ZINC	206.200	Axial	9109.331	9106.111	9139.658	9082.225

Sample ID: ICV Units: mg/l
Analyzed: 03/21/25 08:55 Sequence: 11 Standard ID: 25C19787

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	6478.633	6451.892	6568.872	6431.969	6461.799
YTTRIUM	360.073	Axial	61757.30	61695.68	62664.43	61284.92	61384.17
YTTRIUM	360.073	Radial	4713.444	4751.541	4738.608	4677.297	4686.328
INDIUM	230.606	Axial	1307.971	1297.389	1326.632	1304.919	1302.945

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	565.0048	10.02804	9.955157	10.08336	10.10056	9.973076
ANTIMONY	206.833	Axial	141.6844	1.015808	1.023130	1.004810	1.022603	1.012686
ARSENIC	189.042	Axial	204.8072	1.024980	1.040016	0.9994957	1.026118	1.034291
BARIUM	233.527	Axial	6237.846	1.029953	1.042628	1.025010	1.026514	1.025661
BERYLLIUM	313.042	Radial	15903.83	1.004575	1.001353	1.007203	1.003601	1.006142
BORON	249.678	Radial	206.3978	0.9993199	0.9893081	1.001795	0.9991111	1.007066
CADMIUM	228.802	Axial	2214.477	1.029156	1.043408	1.016196	1.033606	1.023412
CALCIUM	317.933	Radial	2052.891	10.43464	10.27229	10.65200	10.47402	10.34026
CHROMIUM	267.716	Axial	2337.517	0.9987973	1.010495	0.9860235	1.005626	0.9930454
COBALT	228.616	Axial	984.0146	0.9537096	0.9664578	0.9441704	0.9551736	0.9490366
COPPER	324.754	Axial	4571.297	1.048114	1.054444	1.036559	1.055376	1.046079
IRON	259.940	Radial	2610.492	10.49890	10.34514	10.66339	10.45468	10.53239
LEAD	220.353	Axial	443.8305	0.9998232	1.011553	0.9875776	1.004373	0.9957888
LITHIUM	670.784	Radial	1029.853	1.001239	0.9840920	1.011058	1.010134	0.9996726
MAGNESIUM	279.079	Radial	875.4017	10.42528	10.32981	10.45397	10.48752	10.42981
MANGANESE	257.610	Axial	21735.29	1.004296	1.014993	0.9968802	1.006778	0.9985353
MOLYBDENUM	202.030	Axial	712.8917	1.052945	1.061728	1.042353	1.060695	1.047003
NICKEL	231.604	Axial	906.3199	0.9624547	0.9740930	0.9533346	0.9620876	0.9603035
PHOSPHORUS	177.495	Axial	192.2036	1.018936	1.021827	1.015791	1.038776	0.9993506
POTASSIUM	766.490	Radial	954.0473	10.30384	10.23084	10.28883	10.27896	10.41674
SELENIUM	196.090	Axial	90.33451	0.9989623	0.9941009	1.003141	0.9997436	0.9988638
SILICON	251.611	Axial	1024.913	0.9763080	0.9791340	0.9651723	0.9870436	0.9738823
SILVER	328.068	Axial	3794.324	0.9815322	0.9894721	0.9703889	0.9815910	0.9846766
SODIUM	589.592	Radial	3775.417	10.32264	10.32752	10.26446	10.36710	10.33150
STRONTIUM	421.552	Radial	4254.944	0.4099197	0.4033015	0.4177507	0.4115087	0.4071177
SULFUR	182.034	Axial	501.7249	9.949151	10.00614	9.904340	10.07677	9.809354
THALLIUM	190.856	Axial	204.3513	1.048436	1.051263	1.041065	1.061942	1.039475
TIN	189.989	Axial	411.0331	0.9981337	1.013724	0.9877436	0.9988937	0.9921738
TITANIUM	334.941	Radial	1675.940	1.016422	1.006086	1.015072	1.024613	1.019916
VANADIUM	292.402	Radial	602.6563	1.005533	1.001630	1.005426	1.006661	1.008413
ZINC	206.200	Axial	2456.024	1.040149	1.053357	1.028118	1.036504	1.042616
CERIUM	535.353	Radial	28.83321	0.1174955	0.1127160	0.1123947	0.1281549	0.1167165
LANTHANUM	333.749	Radial	-7.58676	-0.006238472	-0.007262587	-0.007210297	-0.005055460	-0.005425545

Sample ID: ICB Units: mg/l
Analyzed: 03/21/25 08:59 Sequence: 12

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6328.376	6365.961	6267.279	6351.887
YTTRIUM	360.073	Axial	60664.17	61074.89	60180.28	60737.35
YTTRIUM	360.073	Radial	4761.581	4805.071	4733.376	4746.296
INDIUM	230.606	Axial	1338.325	1342.761	1325.871	1346.342

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.07264	-0.01088985	-0.01172645	-0.01235241	-0.008590677
ANTIMONY	206.833	Axial	0.2251624	-0.0003987517	-0.01018647	0.005967538	0.003022678
ARSENIC	189.042	Axial	0.9237901	-0.0006736891	0.005036661	-0.003558999	-0.003498730
BARIUM	233.527	Axial	-8.37943	-0.00005799971	-0.0003055036	-0.00006352405	0.0001950285
BERYLLIUM	313.042	Radial	4.589206	0.0001049571	-0.00001101949	0.0001212455	0.0002046452
BORON	249.678	Radial	-0.8663181	-0.003424130	-0.001999810	-0.006253464	-0.002019117
CADMIUM	228.802	Axial	8.961760	0.0001307474	-0.0002522605	0.0002913574	0.0003531454
CALCIUM	317.933	Radial	11.56242	-0.003013699	-0.005039895	-0.005197259	0.001196058
CERIUM	535.353	Radial	21.89100	0.03510836	0.02125335	0.05599806	0.02807366
CHROMIUM	267.716	Axial	-7.71367	0.0004348755	0.002055977	-0.0003329870	-0.0004183632
COBALT	228.616	Axial	-5.80999	0.0005244144	0.0001703281	0.0009123194	0.0004905958
COPPER	324.754	Axial	-12.4630	-0.0004221168	-0.001958116	0.0003207861	0.0003709791
IRON	259.940	Radial	0.6405882	-0.002713333	-0.005784321	-0.003044451	0.0006887723
LANTHANUM	333.749	Radial	-3.34023	0.001908260	-0.001700334	0.005946911	0.001478202
LEAD	220.353	Axial	0.5580686	0.001209050	0.001968905	-0.0002907159	0.001948959
LITHIUM	670.784	Radial	-6.84155	0.0003221891	0.005025227	-0.005212358	0.001153697
MAGNESIUM	279.079	Radial	-4.14421	-0.01570270	-0.02901495	-0.008565109	-0.009528054
MANGANESE	257.610	Axial	-11.8428	0.00006893814	0.0002327018	-0.0001037511	0.00007786377
MOLYBDENUM	202.030	Axial	-0.1504245	-0.001025402	-0.001003485	-0.0007581833	-0.001314538
NICKEL	231.604	Axial	3.253927	0.002076970	0.003308107	0.002789813	0.0001329903
PHOSPHORUS	177.495	Axial	1.242344	0.0006382391	0.0002457912	0.001495469	0.0001734567
POTASSIUM	766.490	Radial	-24.8854	-0.04154546	-0.06271899	-0.01218211	-0.04973528
SELENIUM	196.090	Axial	-0.1325899	-0.002132518	-0.003922313	0.0002356263	-0.002710867
SILICON	251.611	Axial	10.53433	0.0004118090	-0.003290501	0.002329679	0.002196250
SILVER	328.068	Axial	-15.5798	0.0004579817	-0.0003616989	0.001111318	0.0006243262
SODIUM	589.592	Radial	-21.5454	-0.04234216	-0.03826068	-0.03721900	-0.05154681
STRONTIUM	421.552	Radial	3.441063	-0.0003381468	-0.0003194042	-0.0003188893	-0.0003761468
SULFUR	182.034	Axial	3.576602	-0.007963784	-0.004628892	-0.002069123	-0.01719334
THALLIUM	190.856	Axial	-2.06157	-0.006360708	-0.01029482	-0.004271471	-0.004515837
TIN	189.989	Axial	-1.10582	-0.001215507	-0.001393846	-0.002568297	0.0003156206
TITANIUM	334.941	Radial	-0.3843956	0.001496667	0.002184966	0.001428471	0.0008765638
VANADIUM	292.402	Radial	-2.16681	-0.0009996125	0.0003361932	-0.004340741	0.001005710
ZINC	206.200	Axial	3.585146	0.00001933368	0.0004216840	-0.0001170951	-0.0002465878

Sample ID: ICVLL Units: mg/l
Analyzed: 03/21/25 09:04 Sequence: 15 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6480.793	6527.034	6480.721	6434.626
YTTRIUM	360.073	Axial	62267.15	62596.46	61689.66	62515.34
YTTRIUM	360.073	Radial	4749.061	4794.751	4765.439	4686.992
INDIUM	230.606	Axial	1349.785	1354.700	1345.800	1348.854

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.495547	0.2259552	0.2557577	0.1992951	0.2228129
ANTIMONY	206.833	Axial	1.745421	0.01045031	0.01413932	0.0005448450	0.01666678
ARSENIC	189.042	Axial	3.221635	0.01079751	0.007677450	0.01260435	0.01211073
BARIUM	233.527	Axial	25.74451	0.005599951	0.005757293	0.005315020	0.005727540
BERYLLIUM	313.042	Radial	36.01974	0.002075885	0.002072849	0.002103038	0.002051768
BORON	249.678	Radial	42.15783	0.2031552	0.2015757	0.2070023	0.2008875
CADMIUM	228.802	Axial	12.64161	0.001744789	0.001905496	0.001708117	0.001620754
CALCIUM	317.933	Radial	218.9715	1.049687	1.028901	1.069850	1.050309
CHROMIUM	267.716	Axial	13.14511	0.009389710	0.01023869	0.009430530	0.008499915
COBALT	228.616	Axial	3.287825	0.009055380	0.01091578	0.007186234	0.009064130
COPPER	324.754	Axial	32.46132	0.009839784	0.01073764	0.01014800	0.008633713
IRON	259.940	Radial	27.98396	0.1064772	0.1069004	0.1064902	0.1060409
LEAD	220.353	Axial	2.650096	0.005773866	0.003049365	0.002911243	0.01136099
LITHIUM	670.784	Radial	7.900956	0.01442687	0.01926225	0.01314363	0.01087472
MAGNESIUM	279.079	Radial	86.92338	1.057202	1.052370	1.041839	1.077396
MANGANESE	257.610	Axial	203.2158	0.01001036	0.009952902	0.009990331	0.01008784
MOLYBDENUM	202.030	Axial	4.457721	0.005791056	0.004587294	0.006731143	0.006054731
NICKEL	231.604	Axial	9.975440	0.008969076	0.009276269	0.009312054	0.008318904
PHOSPHORUS	177.495	Axial	20.46628	0.1029653	0.1026799	0.1031104	0.1031055
POTASSIUM	766.490	Radial	85.65894	1.116806	1.204180	1.106092	1.040146
SELENIUM	196.090	Axial	1.027709	0.01071712	0.01254520	0.01091236	0.008693820
SILICON	251.611	Axial	213.1371	0.1934798	0.1951891	0.1933616	0.1918887
SILVER	328.068	Axial	5.494364	0.005941825	0.006453713	0.006122941	0.005248822
SODIUM	589.592	Radial	379.3766	1.043726	1.058685	1.035392	1.037100
STRONTIUM	421.552	Radial	112.2358	0.01008167	0.009681586	0.01074440	0.009819009
SULFUR	182.034	Axial	53.31446	0.9842541	0.9822616	0.9944971	0.9760037
THALLIUM	190.856	Axial	0.9725170	0.008755581	0.004738269	0.01250789	0.009020586
TIN	189.989	Axial	20.42254	0.04940107	0.04786890	0.05065842	0.04967589
TITANIUM	334.941	Radial	81.77775	0.05087343	0.05047450	0.05053453	0.05161127
VANADIUM	292.402	Radial	12.14881	0.02264985	0.02431204	0.01946304	0.02417447
ZINC	206.200	Axial	145.0937	0.05997992	0.05967486	0.06037144	0.05989345
CERIUM	535.353	Radial	26.75930	0.09154492	0.1093420	0.02026122	0.1450315
LANTHANUM	333.749	Radial	-3.88467	0.0008375643	-0.00003740051	0.003607554	-0.001057460

Sample ID: ICSA Units: mg/l
Analyzed: 03/21/25 09:06 Sequence: 16 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6209.122	6129.217	6252.402	6245.747
YTTRIUM	360.073	Axial	56943.11	56528.67	56709.27	57591.38
YTTRIUM	360.073	Radial	4630.323	4647.364	4606.448	4637.159
INDIUM	230.606	Axial	1145.967	1139.647	1149.860	1148.394

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28393.75	509.1013	510.4642	510.3168	506.5230
ANTIMONY	206.833	Axial	1.137327	0.006447154	0.008384572	0.005569339	0.005387550
ARSENIC	189.042	Axial	0.08403090	-0.004907903	0.005279156	-0.008723808	-0.01127906
BARIUM	233.527	Axial	2.746264	0.001830300	0.002042907	0.001498521	0.001949471
BERYLLIUM	313.042	Radial	13.74000	0.0007008089	0.0007711001	0.0005939620	0.0007373647
BORON	249.678	Radial	-7.32224	-0.03529493	-0.04377895	-0.02316558	-0.03894027
CADMIUM	228.802	Axial	6.907919	-0.0007914524	-0.001340076	-0.0005217004	-0.0005125805
CALCIUM	373.690	Radial	49040.54	511.6463	512.0951	511.1054	511.7383
CERIUM	535.353	Radial	25.71762	0.08687797	0.09210637	0.06860486	0.09992269
CHROMIUM	267.716	Axial	-21.6744	-0.005823406	-0.005588440	-0.006658098	-0.005223679
COBALT	228.616	Axial	-4.42097	0.001132004	0.001184600	0.0006186421	0.001592770
COPPER	324.754	Axial	35.92912	0.01139299	0.01080001	0.01315651	0.01022246
IRON	271.441	Radial	4088.898	204.2666	204.9753	204.6482	203.1764
LANTHANUM	333.749	Radial	-5.25093	-0.001980646	-0.003569896	-0.0005366074	-0.001835433
LEAD	220.353	Axial	0.001554096	-0.00001767799	-0.002953027	0.003814099	-0.0009141064
LITHIUM	670.784	Radial	3.388934	0.01022379	0.007499565	0.01284848	0.01032333
MAGNESIUM	279.079	Radial	43430.23	524.8626	525.0418	527.6116	521.9344
MANGANESE	257.610	Axial	-188.674	-0.008460159	-0.008421298	-0.008899565	-0.008059613
MOLYBDENUM	202.030	Axial	1.266022	0.001139825	-0.001049952	0.001070068	0.003399359
NICKEL	231.604	Axial	1.116552	0.00004664138	0.0007722369	0.002482782	-0.003115095
PHOSPHORUS	177.495	Axial	2.463552	0.007550403	0.005835356	0.004268200	0.01254765
POTASSIUM	766.490	Radial	-14.2678	0.06504105	0.1320180	0.01179776	0.05130743
SELENIUM	196.090	Axial	-0.0003776531	-0.0006311484	0.001338015	-0.009709878	0.006478418
SILICON	251.611	Axial	7.525050	-0.002068487	-0.001757369	-0.002741088	-0.001707004
SILVER	328.068	Axial	0.5499225	0.004693209	0.006395151	0.002929782	0.004754695
SODIUM	589.592	Radial	2.931504	0.02404681	0.01554474	0.02474811	0.03184759
STRONTIUM	421.552	Radial	65.13134	0.005731087	0.005599843	0.005750671	0.005842748
SULFUR	182.034	Axial	3.682188	-0.004359289	-0.001408341	-0.008835063	-0.002834462
THALLIUM	190.856	Axial	-2.06452	-0.008104253	-0.005270176	-0.01320551	-0.005837069
TIN	189.989	Axial	-0.8421534	-0.0009146921	0.0005205528	-0.001545970	-0.001718660
TITANIUM	334.941	Radial	-8.47898	-0.003497506	-0.003020103	-0.004212625	-0.003259789
VANADIUM	292.402	Radial	3.004316	0.007661386	0.009155934	0.005167527	0.008660698
ZINC	206.200	Axial	28.26566	0.01097610	0.01163468	0.01056749	0.01072613

Sample ID: ICSAB Units: mg/l
Analyzed: 03/21/25 09:07 Sequence: 17 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6123.093	6094.031	6165.989	6109.260
YTTRIUM	360.073	Axial	56214.01	56153.76	56384.67	56103.61
YTTRIUM	360.073	Radial	4592.023	4591.745	4646.096	4538.227
INDIUM	230.606	Axial	1130.727	1126.804	1135.706	1129.670

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28105.66	508.1369	507.9550	508.2932	508.1624
ANTIMONY	206.833	Axial	65.43232	0.4952210	0.4819709	0.5044874	0.4992048
ARSENIC	189.042	Axial	93.75137	0.4935868	0.4938625	0.4935950	0.4933030
BARIUM	233.527	Axial	2877.452	0.5033935	0.5031571	0.4981878	0.5088356
BERYLLIUM	313.042	Radial	7744.502	0.5020147	0.5031202	0.5031462	0.4997776
BORON	249.678	Radial	195.7988	0.9730376	0.9653942	0.9798966	0.9738219
CADMIUM	228.802	Axial	2037.292	1.001625	1.004228	0.9991370	1.001509
CALCIUM	373.690	Radial	48742.41	512.7760	514.8863	512.0973	511.3445
CERIUM	535.353	Radial	27.25138	0.1076273	0.1062523	0.09839761	0.1182319
CHROMIUM	267.716	Axial	1065.295	0.4835681	0.4831471	0.4798800	0.4876772
COBALT	228.616	Axial	450.8244	0.5082139	0.5073731	0.5101328	0.5071357
COPPER	324.754	Axial	2078.896	0.5248616	0.5251200	0.5277100	0.5217547
IRON	271.441	Radial	4046.362	203.8270	204.4594	203.5623	203.4593
LANTHANUM	333.749	Radial	-7.33061	-0.006128269	-0.003544000	-0.007227607	-0.007613200
LEAD	220.353	Axial	385.3015	1.003979	1.009871	0.9986403	1.003426
LITHIUM	670.784	Radial	-2.97633	0.003950866	0.005520351	0.001227394	0.005104854
MAGNESIUM	279.079	Radial	42883.12	522.5730	520.8078	522.7431	524.1680
MANGANESE	257.610	Axial	10221.65	0.5000247	0.4984861	0.4984700	0.5031180
MOLYBDENUM	202.030	Axial	314.2119	0.4905902	0.4916067	0.4900808	0.4900831
NICKEL	231.604	Axial	827.5371	1.016567	1.016074	1.013166	1.020463
PHOSPHORUS	177.495	Axial	1.500117	0.002309558	0.002380534	0.004444040	0.0001041018
POTASSIUM	766.490	Radial	-15.4229	0.05152367	0.07964908	0.02104890	0.05387303
SELENIUM	196.090	Axial	41.82964	0.4891785	0.4917050	0.4686218	0.5072086
SILICON	251.611	Axial	917.1093	0.9595425	0.9562053	0.9576636	0.9647586
SILVER	328.068	Axial	3524.290	1.001450	1.007375	0.9931481	1.003827
SODIUM	589.592	Radial	16.73123	0.06280299	0.07267136	0.05436185	0.06137575
STRONTIUM	421.552	Radial	67.58374	0.006023902	0.006171096	0.006373777	0.005526832
SULFUR	182.034	Axial	4.052287	0.004478473	-0.003920196	0.01826946	-0.0009138455
THALLIUM	190.856	Axial	81.31783	0.4847077	0.4831396	0.4856052	0.4853782
TIN	189.989	Axial	177.5471	0.4994098	0.4983027	0.4963370	0.5035896
TITANIUM	334.941	Radial	785.3272	0.4897595	0.4842294	0.4919246	0.4931245
VANADIUM	292.402	Radial	286.5951	0.4921151	0.4921531	0.4954032	0.4887889
ZINC	206.200	Axial	2274.601	1.019194	1.016948	1.010457	1.030178

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 13:08 Sequence: 144 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6606.378	6537.113	6615.571	6666.448
YTTRIUM	360.073	Axial	62074.83	61550.10	62440.89	62233.48
YTTRIUM	360.073	Radial	4642.920	4644.899	4622.512	4661.350
INDIUM	230.606	Axial	1296.412	1282.596	1304.134	1302.507

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	555.8531	10.01538	10.05806	9.982202	10.00588
ANTIMONY	206.833	Axial	72.07470	0.5056670	0.5065184	0.5013402	0.5091424
ARSENIC	189.042	Axial	203.0988	0.9966275	1.021446	0.9760762	0.9923608
BARIUM	233.527	Axial	3120.020	0.5058902	0.5073954	0.5071987	0.5030763
BERYLLIUM	313.042	Radial	3168.238	0.2030158	0.2031283	0.2025560	0.2033633
BORON	249.678	Radial	206.8338	1.016580	1.014863	1.009601	1.025275
CADMIUM	228.802	Axial	1087.462	0.4934485	0.4953159	0.4952136	0.4898162
CALCIUM	373.690	Radial	5041.783	52.48713	52.49404	52.54676	52.42060
CHROMIUM	267.716	Axial	2368.486	0.9924139	0.9905176	0.9947380	0.9919860
COBALT	228.616	Axial	1000.740	0.9783714	0.9814594	0.9750130	0.9786418
COPPER	324.754	Axial	4482.054	1.022399	1.020888	1.021491	1.024817
IRON	259.940	Radial	2627.246	10.72691	10.82593	10.71099	10.64381
LEAD	220.353	Axial	219.0732	0.4978858	0.5008706	0.4968163	0.4959704
LITHIUM	670.784	Radial	1049.185	1.035252	1.035599	1.034309	1.035847
MAGNESIUM	279.079	Radial	863.8603	10.44370	10.44519	10.42341	10.46250
MANGANESE	257.610	Axial	22249.82	1.008182	1.012522	1.009258	1.002767
MOLYBDENUM	202.030	Axial	174.1106	0.2515685	0.2511358	0.2525852	0.2509844
NICKEL	231.604	Axial	904.0426	0.9685819	0.9744440	0.9645181	0.9667835
PHOSPHORUS	177.495	Axial	188.1418	0.9778657	0.9904613	0.9578008	0.9853349
POTASSIUM	766.490	Radial	4710.585	50.76855	50.64793	50.78543	50.87230
SELENIUM	196.090	Axial	89.80016	0.9739736	0.9989548	0.9576056	0.9653604
SILICON	251.611	Axial	2091.000	1.991719	1.982906	1.985829	2.006421
SILVER	328.068	Axial	1967.869	0.5086542	0.5156881	0.5055532	0.5047213
SODIUM	818.326	Radial	425.8316	48.65854	48.33877	48.20167	49.43519
STRONTIUM	421.552	Radial	10510.87	1.029014	1.039876	1.031471	1.015695
SULFUR	182.034	Axial	250.5980	4.831550	4.820145	4.821564	4.852940
THALLIUM	190.856	Axial	198.8732	1.029509	1.036998	1.025334	1.026194
TIN	189.989	Axial	201.2735	0.4938115	0.4953268	0.4945464	0.4915614
TITANIUM	334.941	Radial	1660.667	1.022408	1.022386	1.024327	1.020512
VANADIUM	292.402	Radial	599.0400	1.014643	1.015729	1.014152	1.014047
ZINC	206.200	Axial	2427.096	1.008083	1.034200	1.003092	0.9869560
CERIUM	535.353	Radial	11.84645	-0.07595074	-0.09520467	-0.07572951	-0.05691803
LANTHANUM	333.749	Radial	-5.64379	-0.002724504	0.001298355	-0.007675532	-0.001796334

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 13:09 Sequence: 145

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6500.583	6450.472	6478.073	6573.203
YTTRIUM	360.073	Axial	63161.18	63162.44	62846.01	63475.08
YTTRIUM	360.073	Radial	4658.592	4642.835	4663.165	4669.776
INDIUM	230.606	Axial	1386.365	1386.171	1373.908	1399.017

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.41699	-0.001158901	0.002965034	-0.006798940	0.0003572038
ANTIMONY	206.833	Axial	1.549869	0.009010980	0.008376811	0.01082255	0.007833580
ARSENIC	189.042	Axial	1.182952	0.0005257374	-0.002830788	0.006711694	-0.002303694
BARIUM	233.527	Axial	-5.56152	0.0004428523	0.0004888108	0.0004767420	0.0003630040
BERYLLIUM	313.042	Radial	2.253078	-0.00003853020	-0.00002363651	-0.0001271411	0.00003518703
BORON	249.678	Radial	-0.09731044	0.0002413195	-0.006138599	-0.006604498	0.01346706
CADMIUM	228.802	Axial	8.580114	-0.0001563555	0.0002413877	0.0003075940	-0.001018048
CALCIUM	317.933	Radial	12.79948	0.004660171	-0.002101506	0.004936846	0.01114517
CERIUM	535.353	Radial	10.12706	-0.09637344	-0.07242281	-0.1138042	-0.1028933
CHROMIUM	267.716	Axial	-6.31836	0.001123587	0.001652897	0.001087931	0.0006299325
COBALT	228.616	Axial	-6.82181	-0.0002055363	-0.0006148546	0.0002620882	-0.0002638425
COPPER	324.754	Axial	1.081806	0.002715501	0.003621825	0.001895982	0.002628695
IRON	259.940	Radial	1.778324	0.001971720	0.007522121	-0.001529328	-0.00007763407
LANTHANUM	333.749	Radial	-1.00535	0.006238556	0.004655899	0.008133961	0.005925808
LEAD	220.353	Axial	1.638520	0.003481061	0.007069126	0.003537390	-0.0001633328
LITHIUM	670.784	Radial	-3.13237	0.003826582	0.004305043	0.004459684	0.002715020
MAGNESIUM	279.079	Radial	-2.34736	0.004736459	0.0003533034	0.01229905	0.001557023
MANGANESE	257.610	Axial	-11.5324	0.00009867453	0.0002070836	-0.00009592833	0.0001848684
MOLYBDENUM	202.030	Axial	1.841747	0.001915173	0.004114070	-0.0006882886	0.002319737
NICKEL	231.604	Axial	1.366602	0.00004958106	-0.00002649625	-0.001920045	0.002095285
PHOSPHORUS	177.495	Axial	1.770855	0.003278677	0.004989106	0.004174795	0.0006721291
POTASSIUM	766.490	Radial	-21.1546	-0.007548502	-0.03210895	0.02109055	-0.01162711
SELENIUM	196.090	Axial	-0.4537256	-0.005649366	-0.007246366	-0.004231906	-0.005469825
SILICON	251.611	Axial	13.89379	0.003149370	0.003381360	0.002318342	0.003748408
SILVER	328.068	Axial	-12.7798	0.001318456	0.001420765	0.0005590936	0.001975509
SODIUM	589.592	Radial	-20.7681	-0.04149390	-0.05696432	-0.02802413	-0.03949324
STRONTIUM	421.552	Radial	2.014692	-0.0004701486	-0.0005254376	-0.0003896579	-0.0004953501
SULFUR	182.034	Axial	3.740732	-0.006675920	-0.009735745	-0.006687973	-0.003604043
THALLIUM	190.856	Axial	-1.18660	-0.001789906	0.001176172	-0.002998728	-0.003547162
TIN	189.989	Axial	0.4401048	0.002412292	0.0002308755	0.002434536	0.004571465
TITANIUM	334.941	Radial	-3.12714	-0.0001863856	-0.0002252964	-0.001693822	0.001359961
VANADIUM	292.402	Radial	-1.79493	-0.0004478079	-0.003593654	0.003952352	-0.001702122
ZINC	206.200	Axial	3.110620	-0.0002193744	0.0002892634	-0.0004254907	-0.0005218958

Sample ID: BLANK DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:11 Sequence: 146

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6632.181	6670.431	6636.243	6589.868
YTTRIUM	360.073	Axial	63841.81	64768.20	63729.59	63027.64
YTTRIUM	360.073	Radial	4731.888	4682.888	4765.205	4747.571
INDIUM	230.606	Axial	1409.046	1423.589	1405.042	1398.507

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.2915658	-0.003985359	-0.002430624	-0.004943532	-0.004581920
BARIUM	233.527	Axial	-4.51284	0.0006297733	0.0006900752	0.0003860101	0.0008132345
BORON	249.678	Radial	-1.19697	-0.005054920	-0.009156517	-0.004241066	-0.001767177
CADMIUM	228.802	Axial	8.726867	-0.0001731856	-0.00005230114	-0.0004760422	0.000008786488
CHROMIUM	267.716	Axial	-7.20553	0.0008034199	0.0009512100	0.001113652	0.0003453979
COBALT	228.616	Axial	-8.03536	-0.001183252	-0.002689798	-0.001195371	0.0003354133
LEAD	220.353	Axial	0.7158173	0.001474050	0.003689947	-0.0004595514	0.001191756
LITHIUM	670.784	Radial	-4.38361	0.002668443	0.002500027	0.002819786	0.002685517
SELENIUM	196.090	Axial	0.2875282	0.002440423	0.004910011	0.009000565	-0.006589307
SILVER	328.068	Axial	-15.7461	0.0006037955	0.001596053	0.001552724	-0.001337390
ALUMINUM	308.215	Radial	-3.44403	0.01712160	0.01594155	0.01394663	0.02147661
ANTIMONY	206.833	Axial	1.644736	0.009434799	0.01254931	0.01126983	0.004485254
BERYLLIUM	313.042	Radial	1.719846	-0.00007398027	-0.00003694058	-0.0001990587	0.00001405849
CALCIUM	317.933	Radial	18.66294	0.03349976	0.03212253	0.03652315	0.03185362
CERIUM	535.353	Radial	12.04338	-0.07649879	-0.1140053	-0.03259433	-0.08289669
COPPER	324.754	Axial	4.216499	0.003406694	0.003396218	0.003715175	0.003108688
IRON	259.940	Radial	4.336903	0.01208198	0.007160031	0.01307467	0.01601123
LANTHANUM	333.749	Radial	-1.07328	0.006132283	0.004273123	0.007167079	0.006956646
MAGNESIUM	279.079	Radial	-2.65018	0.001630006	0.007708339	-0.002491542	-0.0003267792
MANGANESE	257.610	Axial	-8.20541	0.0002594395	0.0003779983	0.00009783570	0.0003024845
MOLYBDENUM	202.030	Axial	1.639745	0.001567049	0.001793637	0.001815545	0.001091965
NICKEL	231.604	Axial	3.794275	0.002432175	0.002513246	0.004509286	0.0002739931
PHOSPHORUS	177.495	Axial	1.233886	0.0002858611	0.0004805930	-0.002845416	0.003222406
POTASSIUM	766.490	Radial	-24.8065	-0.04233703	-0.01356125	-0.03756829	-0.07588156
SILICON	251.611	Axial	27.86519	0.01601010	0.01717116	0.01493234	0.01592681
SODIUM	589.592	Radial	19.36033	0.06852308	0.06689947	0.07515813	0.06351162
STRONTIUM	421.552	Radial	3.713990	-0.0003087378	-0.0001524098	-0.0005830333	-0.0001907702
SULFUR	182.034	Axial	4.930359	0.01514071	0.003917766	0.01536977	0.02613460
THALLIUM	190.856	Axial	-0.9617000	-0.0006239858	-0.003497719	0.004840550	-0.003214789
TIN	189.989	Axial	-0.6280604	0.000001271252	-0.0005883554	0.0004279807	0.0001641884
TITANIUM	334.941	Radial	-2.88363	-0.000008866929	-0.0001934432	-0.0008571577	0.001024000
VANADIUM	292.402	Radial	-0.8126957	0.001254963	0.006316087	0.0007312146	-0.003282412
ZINC	206.200	Axial	9.169674	0.002261494	0.002725691	0.001919924	0.002138867

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:13 Sequence: 147

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6593.086	6558.433	6571.107	6649.719
YTTRIUM	360.073	Axial	62833.99	62391.08	63048.95	63061.93
YTTRIUM	360.073	Radial	4689.555	4674.314	4697.227	4697.123
INDIUM	230.606	Axial	1337.159	1326.732	1341.546	1343.198

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	187.9804	0.9238796	0.9238435	0.9427166	0.9050788
BARIUM	233.527	Axial	5805.877	0.9420960	0.9394544	0.9481265	0.9387072
BORON	249.678	Radial	187.0487	0.9102906	0.9104570	0.9057245	0.9146905
CADMIUM	228.802	Axial	1998.155	0.9120045	0.9136283	0.9176415	0.9047437
CHROMIUM	267.716	Axial	2130.961	0.8950694	0.8954492	0.8946394	0.8951195
COBALT	228.616	Axial	908.6573	0.8619717	0.8597371	0.8670692	0.8591088
LEAD	220.353	Axial	403.3463	0.8887266	0.8873478	0.8935854	0.8852465
LITHIUM	670.784	Radial	965.8665	0.9441796	0.9472922	0.9376385	0.9476079
SELENIUM	196.090	Axial	83.33686	0.9055832	0.9053215	0.9174681	0.8939599
SILVER	328.068	Axial	687.9621	0.1786360	0.1784878	0.1800537	0.1773665
ALUMINUM	308.215	Radial	517.6045	9.239679	9.308505	9.169369	9.241165
ANTIMONY	206.833	Axial	128.1072	0.9022738	0.8910351	0.9242815	0.8915049
BERYLLIUM	313.042	Radial	14419.33	0.9154299	0.9181037	0.9106548	0.9175312
CALCIUM	317.933	Radial	1879.934	9.599203	9.528476	9.589418	9.679714
CERIUM	535.353	Radial	10.24817	-0.09579993	-0.1024501	-0.09137709	-0.09357264
COPPER	324.754	Axial	4236.122	0.9547839	0.9521771	0.9622024	0.9499723
IRON	259.940	Radial	2410.427	9.743141	9.687347	9.731327	9.810751
LANTHANUM	333.749	Radial	-12.0522	-0.01485198	-0.01674531	-0.01156714	-0.01624349
MAGNESIUM	279.079	Radial	787.1464	9.424990	9.479264	9.332035	9.463671
MANGANESE	257.610	Axial	20277.52	0.9207224	0.9190108	0.9303647	0.9127916
MOLYBDENUM	202.030	Axial	645.0890	0.9361614	0.9365872	0.9457612	0.9261359
NICKEL	231.604	Axial	830.8877	0.8628953	0.8593779	0.8692718	0.8600363
PHOSPHORUS	177.495	Axial	174.7670	0.9097580	0.9174547	0.9085646	0.9032548
POTASSIUM	766.490	Radial	863.0946	9.388639	9.404684	9.308217	9.453017
SILICON	251.611	Axial	897.9268	0.8392592	0.8395235	0.8345372	0.8437171
SODIUM	589.592	Radial	3454.280	9.493927	9.550278	9.406187	9.525317
STRONTIUM	421.552	Radial	9692.652	0.9393959	0.9378336	0.9368103	0.9435436
SULFUR	182.034	Axial	448.5265	8.729809	8.779509	8.711024	8.698893
THALLIUM	190.856	Axial	189.1954	0.9498600	0.9564223	0.9499293	0.9432284
TIN	189.989	Axial	373.7651	0.8878825	0.8779641	0.8913669	0.8943163
TITANIUM	334.941	Radial	1520.497	0.9269585	0.9265624	0.9229339	0.9313791
VANADIUM	292.402	Radial	547.5028	0.9183851	0.9255809	0.9061187	0.9234557
ZINC	206.200	Axial	2262.974	0.9416109	0.9395881	0.9563187	0.9289259

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-01 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:14 Sequence: 148

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6680.158	6684.262	6699.744	6656.469
YTTRIUM	360.073	Axial	61551.03	61751.02	61695.66	61206.40
YTTRIUM	360.073	Radial	4851.266	4842.009	4877.160	4834.630
INDIUM	230.606	Axial	1198.222	1201.474	1200.297	1192.894

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.345092	0.01578257	0.01501683	0.01717417	0.01515671
BARIUM	233.527	Axial	2236.432	0.3590056	0.3574726	0.3586848	0.3608595
BORON	249.678	Radial	1.909011	0.009702177	0.01097489	0.01101419	0.007117454
CADMIUM	228.802	Axial	12.99461	0.001729853	0.001995884	0.001267802	0.001925873
CHROMIUM	267.716	Axial	71.68062	0.03338864	0.03334132	0.03410423	0.03272036
COBALT	228.616	Axial	28.96761	0.03644377	0.03616438	0.03682693	0.03634001
LEAD	220.353	Axial	71.03177	0.1746598	0.1766877	0.1668817	0.1804100
LITHIUM	670.784	Radial	16.37399	0.02224621	0.02220274	0.02188569	0.02265019
SELENIUM	196.090	Axial	0.2716098	0.002270661	-0.001104553	0.005315793	0.002600744
SILVER	328.068	Axial	6.949990	0.006337119	0.004027209	0.007586273	0.007397875
ALUMINUM	308.215	Radial	1103.257	18.95532	18.91563	18.90382	19.04651
ANTIMONY	206.833	Axial	1.924706	0.01132890	0.01042606	0.007498373	0.01606228
BERYLLIUM	313.042	Radial	40.72050	0.002317220	0.002256113	0.002242495	0.002453052
CALCIUM	373.690	Radial	117614.1	1171.173	1175.674	1166.249	1171.595
CERIUM	535.353	Radial	24.28625	0.05702107	0.05859546	0.1182828	-0.005815051
COPPER	324.754	Axial	183.6064	0.04460871	0.04542449	0.04475426	0.04364739
IRON	271.441	Radial	982.9897	46.86774	46.87259	46.62663	47.10401
LANTHANUM	333.749	Radial	33.33794	0.06973622	0.07061438	0.06924364	0.06935064
MAGNESIUM	279.079	Radial	4743.552	54.74542	54.88771	54.49294	54.85562
MANGANESE	257.610	Axial	62328.38	2.791833	2.784256	2.792938	2.798306
MOLYBDENUM	202.030	Axial	3.213797	0.003809633	0.002249435	0.004000067	0.005179396
NICKEL	231.604	Axial	44.61527	0.05047296	0.04989435	0.05280754	0.04871699
PHOSPHORUS	177.495	Axial	331.0118	1.705963	1.679406	1.705832	1.732650
POTASSIUM	766.490	Radial	228.0914	2.561399	2.559070	2.525893	2.599233
SILICON	251.611	Axial	9825.717	9.476102	9.501673	9.426037	9.500597
SODIUM	589.592	Radial	530.3384	1.422515	1.409106	1.434381	1.424058
STRONTIUM	421.552	Radial	6158.910	0.5767569	0.5787779	0.5769356	0.5745571
SULFUR	182.034	Axial	212.7956	4.044590	4.025264	4.005448	4.103059
THALLIUM	190.856	Axial	-1.06198	-0.001989337	-0.004330164	-0.002001443	0.0003635960
TIN	189.989	Axial	-0.1232969	0.001087774	0.0006169960	0.0006456571	0.002000668
TITANIUM	334.941	Radial	150.8131	0.09044316	0.09106950	0.08970967	0.09055031
VANADIUM	292.402	Radial	49.41280	0.08247224	0.08052349	0.08374597	0.08314727
ZINC	206.200	Axial	772.8607	0.3163597	0.3093482	0.3192800	0.3204511

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1838002-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:16 Sequence: 149

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6627.418	6604.218	6630.111	6647.925
YTTRIUM	360.073	Axial	62081.47	61454.65	62561.74	62228.02
YTTRIUM	360.073	Radial	4729.375	4709.449	4709.416	4769.258
INDIUM	230.606	Axial	1288.815	1271.306	1293.836	1301.304

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.026320	-0.0003785886	-0.004211451	-0.003837266	0.006912950
BARIUM	233.527	Axial	479.4452	0.07863935	0.07879578	0.07911713	0.07800513
BORON	249.678	Radial	0.2825566	0.002093363	0.002404805	0.001250930	0.002624354
CADMIUM	228.802	Axial	8.937323	-0.00007364775	0.0004056736	-0.0002403130	-0.0003863038
CHROMIUM	267.716	Axial	10.65323	0.008232055	0.007935056	0.007599383	0.009161726
COBALT	228.616	Axial	1.739414	0.007692850	0.008087827	0.006933981	0.008056744
LEAD	220.353	Axial	15.74524	0.03598296	0.03619074	0.03553856	0.03621957
LITHIUM	670.784	Radial	-0.9536460	0.005985827	0.007915961	0.008374264	0.001667255
SELENIUM	196.090	Axial	0.7263043	0.007231056	0.01390902	0.009493822	-0.001709674
SILVER	328.068	Axial	-10.8279	0.001766289	0.002043046	0.001576921	0.001678898
ALUMINUM	308.215	Radial	222.3810	3.980773	4.000091	3.972707	3.969519
ANTIMONY	206.833	Axial	0.9111128	0.004309687	0.004527326	0.005605723	0.002796013
BERYLLIUM	313.042	Radial	10.49399	0.0004785379	0.0005397453	0.0004953810	0.0004004873
CALCIUM	373.690	Radial	24828.99	253.6406	254.6262	253.9394	252.3562
CERIUM	535.353	Radial	16.85337	-0.02107066	-0.01800105	-0.03141479	-0.01379614
COPPER	324.754	Axial	45.51840	0.01282899	0.01239184	0.01336415	0.01273099
IRON	259.940	Radial	2632.867	10.55339	10.57727	10.57624	10.50666
LANTHANUM	333.749	Radial	6.071172	0.01968821	0.02278588	0.02000506	0.01627371
MAGNESIUM	279.079	Radial	1012.589	12.01329	12.08140	11.99411	11.96437
MANGANESE	257.610	Axial	13434.56	0.6070494	0.6086329	0.6079500	0.6045653
MOLYBDENUM	202.030	Axial	1.993658	0.002083925	0.003320321	0.001640109	0.001291346
NICKEL	231.604	Axial	12.11622	0.01175699	0.01005677	0.01409201	0.01112220
PHOSPHORUS	177.495	Axial	71.18333	0.3649405	0.3537806	0.3718892	0.3691518
POTASSIUM	766.490	Radial	32.22594	0.5582504	0.5701426	0.5502769	0.5543319
SILICON	251.611	Axial	2149.571	2.047687	2.065027	2.034927	2.043108
SODIUM	589.592	Radial	91.09756	0.2637639	0.2851982	0.2470771	0.2590163
STRONTIUM	421.552	Radial	1264.294	0.1209221	0.1208411	0.1211607	0.1207644
SULFUR	182.034	Axial	46.34552	0.8244809	0.8064156	0.8378214	0.8292056
THALLIUM	190.856	Axial	0.5010918	0.006544966	0.008829585	0.005393908	0.005411404
TIN	189.989	Axial	0.5501438	0.002751653	0.001140253	0.001856231	0.005258474
TITANIUM	334.941	Radial	30.43798	0.02009931	0.02128240	0.01978873	0.01922680
VANADIUM	292.402	Radial	7.885355	0.01565252	0.01787477	0.01235450	0.01672828
ZINC	206.200	Axial	173.5103	0.07039823	0.06890283	0.07235460	0.06993725

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1838002-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:18 Sequence: 150

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6695.289	6656.481	6682.827	6746.558
YTTRIUM	360.073	Axial	61408.68	61100.97	61476.93	61648.13
YTTRIUM	360.073	Radial	4843.822	4866.082	4825.310	4840.072
INDIUM	230.606	Axial	1190.074	1177.709	1193.092	1199.422

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	208.1652	1.007861	1.010163	1.000269	1.013150
BARIUM	233.527	Axial	8132.287	1.298928	1.298350	1.302702	1.295733
BORON	249.678	Radial	202.5101	0.9541192	0.9515314	0.9567070	0.9541193
CADMIUM	228.802	Axial	2105.768	0.9465870	0.9461517	0.9507167	0.9428927
CHROMIUM	267.716	Axial	2358.313	0.9751209	0.9789799	0.9756786	0.9707040
COBALT	228.616	Axial	985.1308	1.048733	1.051871	1.047230	1.047099
LEAD	220.353	Axial	474.1256	1.173830	1.180438	1.165402	1.175649
LITHIUM	670.784	Radial	1210.263	1.143949	1.141599	1.153149	1.137099
SELENIUM	196.090	Axial	89.33788	0.9559728	0.9469625	0.9722558	0.9487001
SILVER	328.068	Axial	740.7892	0.1963526	0.1953857	0.1955526	0.1981194
ALUMINUM	308.215	Radial	1643.642	28.24506	28.12782	28.31972	28.28764
ANTIMONY	206.833	Axial	135.4824	0.9396806	0.9330245	0.9424778	0.9435396
BERYLLIUM	313.042	Radial	15733.54	0.9670670	0.9640656	0.9706509	0.9664844
CALCIUM	373.690	Radial	114592.6	1142.836	1141.006	1147.162	1140.340
CERIUM	535.353	Radial	23.40904	0.04783315	0.02647059	0.04660906	0.07041979
COPPER	324.754	Axial	4381.836	1.010409	1.009208	1.008345	1.013675
IRON	271.441	Radial	1159.221	55.35554	55.22651	55.58165	55.25845
LANTHANUM	333.749	Radial	17.75050	0.04101189	0.03644651	0.04259551	0.04399364
MAGNESIUM	279.079	Radial	5446.516	62.94894	63.09588	62.91663	62.83433
MANGANESE	257.610	Axial	82747.66	3.697913	3.707546	3.698049	3.688144
MOLYBDENUM	202.030	Axial	667.5601	0.9539500	0.9529447	0.9528427	0.9560624
NICKEL	231.604	Axial	908.5374	1.060458	1.059436	1.060398	1.061539
PHOSPHORUS	177.495	Axial	511.7551	2.634710	2.625977	2.620923	2.657229
POTASSIUM	766.490	Radial	1286.614	13.45305	13.39497	13.49222	13.47196
SILICON	251.611	Axial	10394.23	10.04828	10.10713	9.984015	10.05369
SODIUM	589.592	Radial	4528.568	12.04575	12.04500	12.02830	12.06394
STRONTIUM	421.552	Radial	16654.57	1.563178	1.561560	1.564775	1.563199
SULFUR	182.034	Axial	702.4987	13.50812	13.57103	13.44885	13.50447
THALLIUM	190.856	Axial	176.2078	0.9937880	0.9972412	0.9858382	0.9982846
TIN	189.989	Axial	374.7684	1.000196	1.007026	0.9964004	0.9971625
TITANIUM	334.941	Radial	1778.319	1.049394	1.046030	1.054991	1.047161
VANADIUM	292.402	Radial	627.3476	1.018522	1.013247	1.023398	1.018923
ZINC	206.200	Axial	3102.232	1.271561	1.255541	1.285458	1.273684

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1838002-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:19 Sequence: 151

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6705.559	6697.127	6743.553	6675.998
YTTRIUM	360.073	Axial	61559.08	61466.44	61535.86	61674.93
YTTRIUM	360.073	Radial	4854.155	4820.629	4847.488	4894.349
INDIUM	230.606	Axial	1186.744	1186.799	1188.353	1185.079

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	203.1239	0.9818572	0.9991467	0.9655671	0.9808579
BARIUM	233.527	Axial	8000.062	1.275884	1.276169	1.270452	1.281032
BORON	249.678	Radial	196.6767	0.9246985	0.9273387	0.9268244	0.9199325
CADMIUM	228.802	Axial	2067.510	0.9278823	0.9250803	0.9259764	0.9325901
CHROMIUM	267.716	Axial	2306.058	0.9521197	0.9463722	0.9555621	0.9544249
COBALT	228.616	Axial	964.5988	1.029852	1.022273	1.031845	1.035437
LEAD	220.353	Axial	463.5356	1.150810	1.142738	1.151066	1.158627
LITHIUM	670.784	Radial	1209.625	1.140937	1.142120	1.145413	1.135279
SELENIUM	196.090	Axial	85.44569	0.9129463	0.9239967	0.8908630	0.9239793
SILVER	328.068	Axial	757.3513	0.2001655	0.2019219	0.1972868	0.2012876
ALUMINUM	308.215	Radial	1982.793	33.98437	33.93665	34.01746	33.99900
ANTIMONY	206.833	Axial	113.2796	0.7841674	0.7714491	0.7845088	0.7965444
BERYLLIUM	313.042	Radial	15604.95	0.9571173	0.9564021	0.9604401	0.9545098
CALCIUM	373.690	Radial	118377.2	1178.069	1177.210	1183.069	1173.928
CERIUM	535.353	Radial	20.21031	0.01151154	0.04900231	-0.04352256	0.02905486
COPPER	324.754	Axial	4282.678	0.9851937	0.9819656	0.9834665	0.9901490
IRON	271.441	Radial	1166.174	55.57040	55.93344	55.57507	55.20270
LANTHANUM	333.749	Radial	20.59209	0.04618674	0.04566902	0.05024102	0.04265018
MAGNESIUM	279.079	Radial	6069.236	69.99353	70.24657	69.62416	70.10986
MANGANESE	257.610	Axial	82642.07	3.687557	3.677601	3.672294	3.712776
MOLYBDENUM	202.030	Axial	630.0543	0.8989531	0.9036382	0.8924607	0.9007605
NICKEL	231.604	Axial	886.1566	1.037217	1.036954	1.035265	1.039431
PHOSPHORUS	177.495	Axial	557.2345	2.865184	2.901465	2.825185	2.868902
POTASSIUM	766.490	Radial	1256.053	13.11120	13.15119	13.09400	13.08840
SILICON	251.611	Axial	16851.26	16.25649	16.11623	16.40948	16.24376
SODIUM	589.592	Radial	4494.894	11.93096	11.98026	11.87642	11.93622
STRONTIUM	421.552	Radial	16560.87	1.551038	1.540279	1.559817	1.553017
SULFUR	182.034	Axial	674.2126	12.94093	12.89741	12.93913	12.98624
THALLIUM	190.856	Axial	168.3160	0.9521128	0.9667998	0.9330205	0.9565181
TIN	189.989	Axial	367.2839	0.9829623	0.9803848	0.9845127	0.9839894
TITANIUM	334.941	Radial	1553.389	0.9149243	0.9163298	0.9134299	0.9150133
VANADIUM	292.402	Radial	624.1429	1.011158	1.009894	1.010489	1.013091
ZINC	206.200	Axial	3029.848	1.240030	1.254731	1.220026	1.245333

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1838002-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:30 Sequence: 152

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6506.142	6543.025	6466.374	6509.026
YTTRIUM	360.073	Axial	59367.60	59287.23	59423.07	59392.51
YTTRIUM	360.073	Radial	4869.918	4830.957	4909.973	4868.825
INDIUM	230.606	Axial	1159.991	1156.904	1160.769	1162.300

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	203.7354	1.015170	1.005296	1.019442	1.020771
BARIUM	233.527	Axial	7985.952	1.312629	1.309606	1.317041	1.311240
BORON	249.678	Radial	198.1111	0.9284622	0.9403576	0.9188355	0.9261936
CADMIUM	228.802	Axial	2053.664	0.9500287	0.9429255	0.9542967	0.9528639
CHROMIUM	267.716	Axial	2292.970	0.9756808	0.9639338	0.9828058	0.9803028
COBALT	228.616	Axial	961.5893	1.050202	1.056234	1.044776	1.049596
LEAD	220.353	Axial	464.1770	1.178979	1.181130	1.176392	1.179416
LITHIUM	670.784	Radial	1200.818	1.129073	1.143248	1.121828	1.122144
SELENIUM	196.090	Axial	84.59051	0.9314823	0.9288221	0.9392022	0.9264226
SILVER	328.068	Axial	745.5119	0.2042172	0.2062513	0.2033794	0.2030211
ALUMINUM	308.215	Radial	1914.614	32.71397	33.02275	32.51698	32.60219
ANTIMONY	206.833	Axial	112.3011	0.8012621	0.7982254	0.8024193	0.8031416
BERYLLIUM	313.042	Radial	15858.46	0.9695477	0.9794276	0.9664504	0.9627650
CALCIUM	373.690	Radial	115480.5	1145.558	1157.242	1139.922	1139.512
CERIUM	535.353	Radial	21.95771	0.03038319	0.05311287	-0.003657682	0.04169437
COPPER	324.754	Axial	4246.827	1.012948	1.019210	1.011033	1.008602
IRON	271.441	Radial	1159.995	55.09762	55.60898	54.70294	54.98094
LANTHANUM	333.749	Radial	20.95874	0.04672813	0.04657770	0.04646199	0.04714470
MAGNESIUM	279.079	Radial	5006.369	57.55644	58.13251	57.54229	56.99452
MANGANESE	257.610	Axial	82296.70	3.784719	3.760715	3.810605	3.782836
MOLYBDENUM	202.030	Axial	627.3163	0.9225095	0.9128605	0.9265376	0.9281305
NICKEL	231.604	Axial	889.5816	1.065272	1.064985	1.064458	1.066372
PHOSPHORUS	177.495	Axial	479.9135	2.542566	2.526432	2.572238	2.529027
POTASSIUM	766.490	Radial	1250.332	13.01170	13.17500	12.84227	13.01782
SILICON	251.611	Axial	15656.78	15.66137	15.61714	15.67300	15.69397
SODIUM	589.592	Radial	4523.292	11.96784	12.07347	11.89266	11.93740
STRONTIUM	421.552	Radial	16869.74	1.574903	1.588505	1.582142	1.554062
SULFUR	182.034	Axial	654.6089	12.94996	12.92236	13.01527	12.91226
THALLIUM	190.856	Axial	168.0463	0.9724055	0.9654593	0.9733811	0.9783762
TIN	189.989	Axial	369.1486	1.010692	1.008135	1.004877	1.019063
TITANIUM	334.941	Radial	1552.880	0.9117042	0.9217374	0.9079221	0.9054531
VANADIUM	292.402	Radial	628.6359	1.015204	1.029788	1.005493	1.010331
ZINC	206.200	Axial	3035.807	1.280581	1.267503	1.285196	1.289045

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838014-01 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:31 Sequence: 153

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6871.637	6894.166	6991.679	6729.066
YTTRIUM	360.073	Axial	63905.70	64366.71	64134.91	63215.47
YTTRIUM	360.073	Radial	4985.303	4968.769	4963.056	5024.085
INDIUM	230.606	Axial	1268.624	1275.354	1275.251	1255.269

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.226745	0.01935950	0.02379542	0.01781194	0.01647112
BARIUM	233.527	Axial	5785.396	0.9008690	0.9003475	0.8931501	0.9091094
BORON	249.678	Radial	1.899970	0.009413810	0.005899472	0.01009307	0.01224889
CADMIUM	228.802	Axial	12.45605	0.001333289	0.0005710102	0.001433509	0.001995349
CHROMIUM	267.716	Axial	132.5016	0.05696874	0.05645088	0.05760147	0.05685386
COBALT	228.616	Axial	44.00539	0.04968581	0.04959722	0.04968188	0.04977834
LEAD	220.353	Axial	118.7426	0.2757656	0.2756810	0.2752003	0.2764154
LITHIUM	670.784	Radial	8.266766	0.01441789	0.01792102	0.007900865	0.01743178
SELENIUM	196.090	Axial	0.2369543	0.001812688	-0.007213031	0.008828162	0.003822932
SILVER	328.068	Axial	0.9163249	0.004763722	0.005810836	0.003962093	0.004518236
ALUMINUM	308.215	Radial	1538.906	25.70164	25.73969	25.70920	25.65604
ANTIMONY	206.833	Axial	-0.008618747	-0.002162764	-0.003070594	-0.0004876638	-0.002930036
BERYLLIUM	313.042	Radial	76.13656	0.004365438	0.004498033	0.004296692	0.004301589
CALCIUM	373.690	Radial	41551.14	402.6521	402.6916	403.5739	401.6909
CERIUM	535.353	Radial	28.26655	0.09321498	0.09105110	0.09815811	0.09043572
COPPER	324.754	Axial	376.7051	0.08574749	0.08498851	0.08539519	0.08685877
IRON	271.441	Radial	1603.981	74.42038	74.61348	74.12314	74.52453
LANTHANUM	333.749	Radial	34.28904	0.06977468	0.06915154	0.06680307	0.07336944
MAGNESIUM	279.079	Radial	1949.457	21.91344	22.01458	21.85437	21.87136
MANGANESE	257.610	Axial	107969.7	4.701776	4.714302	4.633590	4.757436
MOLYBDENUM	202.030	Axial	4.878837	0.005998388	0.005893358	0.006172752	0.005929053
NICKEL	231.604	Axial	84.59662	0.09143787	0.09088030	0.09128932	0.09214399
PHOSPHORUS	177.495	Axial	602.0718	3.021943	2.980767	2.984929	3.100132
POTASSIUM	766.490	Radial	411.4933	4.331379	4.344500	4.350159	4.299478
SILICON	251.611	Axial	12526.82	11.63793	11.55484	11.78600	11.57296
SODIUM	589.592	Radial	299.0694	0.7877980	0.7802664	0.7926982	0.7904295
STRONTIUM	421.552	Radial	6854.298	0.6246761	0.6266948	0.6227918	0.6245417
SULFUR	182.034	Axial	155.2060	2.844661	2.837566	2.804063	2.892355
THALLIUM	190.856	Axial	-1.31750	-0.003043601	-0.006845566	0.006678336	-0.008963574
TIN	189.989	Axial	0.9437133	0.003771963	0.003392839	0.004034831	0.003888219
TITANIUM	334.941	Radial	273.0718	0.1580391	0.1592333	0.1572840	0.1576000
VANADIUM	292.402	Radial	78.00186	0.1253075	0.1231307	0.1266210	0.1261708
ZINC	206.200	Axial	1096.709	0.4371525	0.4342774	0.4263157	0.4508643

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1838014-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:33 Sequence: 154

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7005.581	7048.074	6981.792	6986.877
YTTRIUM	360.073	Axial	64601.16	64990.29	64513.25	64299.92
YTTRIUM	360.073	Radial	4976.963	4983.757	5008.043	4939.089
INDIUM	230.606	Axial	1278.946	1283.263	1279.312	1274.263

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	215.2641	0.9960539	0.9847163	1.004846	0.9985998
BARIUM	233.527	Axial	12031.13	1.835991	1.832748	1.837601	1.837624
BORON	249.678	Radial	212.1445	0.9727466	0.9888427	0.9633019	0.9660954
CADMIUM	228.802	Axial	2210.215	0.9495399	0.9473763	0.9485561	0.9526874
CHROMIUM	267.716	Axial	2558.960	1.011058	1.011437	1.009830	1.011907
COBALT	228.616	Axial	1062.873	1.052835	1.051724	1.050048	1.056734
LEAD	220.353	Axial	547.7305	1.261803	1.260503	1.263590	1.261316
LITHIUM	670.784	Radial	1201.616	1.105620	1.104652	1.104393	1.107816
SELENIUM	196.090	Axial	92.24630	0.9433662	0.9400490	0.9510967	0.9389530
SILVER	328.068	Axial	772.7466	0.1947498	0.1922034	0.1967626	0.1952833
ALUMINUM	308.215	Radial	2096.812	35.04943	35.32228	34.89146	34.93455
ANTIMONY	206.833	Axial	142.0679	0.9417449	0.9403864	0.9500976	0.9347507
BERYLLIUM	313.042	Radial	16634.48	0.9950775	1.002173	0.9927369	0.9903226
CALCIUM	373.690	Radial	41061.40	398.5650	399.6232	398.8417	397.2303
CERIUM	535.353	Radial	27.26625	0.08298275	0.02573952	0.08429250	0.1389162
COPPER	324.754	Axial	4904.386	1.074885	1.068394	1.076558	1.079705
IRON	271.441	Radial	1766.656	82.10681	82.51156	81.74771	82.06117
LANTHANUM	333.749	Radial	19.50517	0.04329436	0.04329711	0.04066115	0.04592483
MAGNESIUM	279.079	Radial	2763.603	31.10313	31.35719	30.93606	31.01615
MANGANESE	257.610	Axial	128677.3	5.495430	5.484287	5.515317	5.486686
MOLYBDENUM	202.030	Axial	705.0452	0.9629239	0.9574535	0.9673511	0.9639673
NICKEL	231.604	Axial	999.5322	1.085635	1.085257	1.086925	1.084724
PHOSPHORUS	177.495	Axial	779.8080	3.839986	3.795603	3.858412	3.865945
POTASSIUM	766.490	Radial	1453.689	14.77164	14.86730	14.66689	14.78073
SILICON	251.611	Axial	13231.67	12.16088	12.22301	12.15791	12.10171
SODIUM	589.592	Radial	4371.283	11.31721	11.37410	11.30034	11.27720
STRONTIUM	421.552	Radial	17739.71	1.620456	1.631041	1.624221	1.606107
SULFUR	182.034	Axial	650.1851	11.93940	11.80161	11.98620	12.03040
THALLIUM	190.856	Axial	191.1001	1.002856	0.9970930	1.003520	1.007954
TIN	189.989	Axial	398.6677	0.9900376	0.9814421	0.9961483	0.9925224
TITANIUM	334.941	Radial	1981.548	1.137880	1.142555	1.134736	1.136350
VANADIUM	292.402	Radial	688.1046	1.087074	1.092391	1.086843	1.081987
ZINC	206.200	Axial	3537.954	1.386114	1.380690	1.397472	1.380178

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1838014-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:35 Sequence: 155

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6815.223	6868.069	6801.866	6775.734
YTTRIUM	360.073	Axial	63680.67	63747.77	64048.66	63245.58
YTTRIUM	360.073	Radial	4898.619	4912.165	4879.077	4904.615
INDIUM	230.606	Axial	1263.492	1275.123	1260.759	1254.595

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	201.3912	0.9576561	0.9576384	0.9522186	0.9631112
BARIUM	233.527	Axial	10786.03	1.692120	1.675154	1.701779	1.699426
BORON	249.678	Radial	200.0127	0.9318124	0.9371407	0.9281618	0.9301347
CADMIUM	228.802	Axial	2142.623	0.9461958	0.9442360	0.9497277	0.9446237
CHROMIUM	267.716	Axial	2465.324	1.001341	0.9954879	0.9956643	1.012870
COBALT	228.616	Axial	1007.999	1.010935	1.003884	1.028717	1.000205
LEAD	220.353	Axial	521.7516	1.216643	1.215722	1.227202	1.207006
LITHIUM	670.784	Radial	1154.942	1.079824	1.085987	1.082244	1.071242
SELENIUM	196.090	Axial	81.36817	0.8553484	0.8397097	0.8662683	0.8600674
SILVER	328.068	Axial	756.4382	0.1934135	0.1923255	0.1956639	0.1922511
ALUMINUM	308.215	Radial	2239.550	38.02790	38.01368	38.20536	37.86465
ANTIMONY	206.833	Axial	118.9194	0.8100205	0.8069901	0.8187531	0.8043185
BERYLLIUM	313.042	Radial	16145.66	0.9812953	0.9820076	0.9843233	0.9775551
CALCIUM	373.690	Radial	31562.38	311.2744	311.5586	312.6573	309.6074
CERIUM	535.353	Radial	23.16217	0.04207043	0.05585199	0.01130241	0.05905691
COPPER	324.754	Axial	4724.957	1.050534	1.053502	1.055896	1.042203
IRON	271.441	Radial	1438.699	67.93368	68.08220	68.31710	67.40172
LANTHANUM	333.749	Radial	20.96150	0.04650718	0.04690307	0.04676119	0.04585728
MAGNESIUM	279.079	Radial	2437.273	27.87282	27.87701	28.03386	27.70760
MANGANESE	257.610	Axial	88282.15	3.875826	3.848028	3.906317	3.873134
MOLYBDENUM	202.030	Axial	656.2639	0.9212832	0.9203910	0.9254181	0.9180403
NICKEL	231.604	Axial	956.6398	1.051719	1.050269	1.054551	1.050339
PHOSPHORUS	177.495	Axial	653.5922	3.307580	3.260707	3.328860	3.333172
POTASSIUM	766.490	Radial	1376.900	14.22336	14.15491	14.31671	14.19847
SILICON	251.611	Axial	17302.91	16.13698	16.13005	15.91877	16.36214
SODIUM	589.592	Radial	4156.795	10.93461	10.96701	10.92313	10.91369
STRONTIUM	421.552	Radial	16367.47	1.519024	1.516831	1.518919	1.521321
SULFUR	182.034	Axial	603.5028	11.38825	11.23882	11.40166	11.52427
THALLIUM	190.856	Axial	185.8314	0.9871938	0.9838225	0.9919555	0.9858033
TIN	189.989	Axial	385.9551	0.9701730	0.9751375	0.9744201	0.9609615
TITANIUM	334.941	Radial	1675.828	0.9779732	0.9808602	0.9874991	0.9655603
VANADIUM	292.402	Radial	657.4161	1.055301	1.052737	1.059852	1.053315
ZINC	206.200	Axial	3346.075	1.347479	1.347705	1.358387	1.336345

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 13:36 Sequence: 156 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6565.408	6522.572	6570.546	6603.108
YTTRIUM	360.073	Axial	62105.50	61350.05	62200.67	62765.78
YTTRIUM	360.073	Radial	4657.265	4604.699	4652.084	4715.011
INDIUM	230.606	Axial	1293.838	1279.474	1297.839	1304.201

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	554.0824	9.953562	9.999357	9.941397	9.919932
ANTIMONY	206.833	Axial	71.82638	0.5070728	0.5031350	0.5119815	0.5061019
ARSENIC	189.042	Axial	203.6771	1.005630	1.001974	1.008179	1.006737
BARIUM	233.527	Axial	3141.682	0.5125399	0.5111306	0.5099625	0.5165265
BERYLLIUM	313.042	Radial	3167.837	0.2023820	0.2044634	0.2023915	0.2002910
BORON	249.678	Radial	205.7555	1.008242	1.013789	1.009539	1.001398
CADMIUM	228.802	Axial	1087.221	0.4964230	0.4966227	0.4942792	0.4983671
CALCIUM	373.690	Radial	5047.974	52.39327	52.82888	52.44125	51.90967
CHROMIUM	267.716	Axial	2374.820	1.001227	0.9981580	0.9952415	1.010283
COBALT	228.616	Axial	1002.272	0.9817812	0.9842612	0.9726057	0.9884767
COPPER	324.754	Axial	4465.090	1.018061	1.022758	1.012950	1.018476
IRON	259.940	Radial	2614.562	10.64254	10.67720	10.67244	10.57798
LEAD	220.353	Axial	215.2573	0.4901925	0.4950438	0.4843732	0.4911604
LITHIUM	670.784	Radial	1038.196	1.021386	1.029754	1.014926	1.019480
MAGNESIUM	279.079	Radial	861.4090	10.38317	10.51112	10.36610	10.27229
MANGANESE	257.610	Axial	22233.61	1.013683	1.011988	1.007729	1.021331
MOLYBDENUM	202.030	Axial	173.5511	0.2523186	0.2512575	0.2496158	0.2560825
NICKEL	231.604	Axial	901.8356	0.9681010	0.9694739	0.9588436	0.9759855
PHOSPHORUS	177.495	Axial	187.8844	0.9826175	0.9810449	0.9846170	0.9821905
POTASSIUM	766.490	Radial	4756.154	51.10278	51.30846	51.25877	50.74111
SELENIUM	196.090	Axial	90.95874	0.9926148	1.004442	0.9815423	0.9918605
SILICON	251.611	Axial	2087.815	1.987770	2.000363	1.976749	1.986198
SILVER	328.068	Axial	1988.290	0.5135996	0.5134710	0.5123537	0.5149741
SODIUM	818.326	Radial	428.9350	48.87338	49.71088	48.86932	48.03995
STRONTIUM	421.552	Radial	10498.90	1.024653	1.024263	1.025100	1.024597
SULFUR	182.034	Axial	244.2748	4.737458	4.715776	4.724226	4.772372
THALLIUM	190.856	Axial	196.2498	1.018008	1.028959	1.008905	1.016162
TIN	189.989	Axial	200.5651	0.4930483	0.4939417	0.4902341	0.4949692
TITANIUM	334.941	Radial	1651.475	1.013691	1.022714	1.011829	1.006529
VANADIUM	292.402	Radial	600.0205	1.013272	1.023807	1.015996	1.000014
ZINC	206.200	Axial	2450.050	1.023820	1.023570	1.018248	1.029643
CERIUM	535.353	Radial	11.66294	-0.07825681	-0.04799032	-0.07912636	-0.1076537
LANTHANUM	333.749	Radial	-6.56673	-0.004448152	-0.005374186	-0.0008207805	-0.007149490

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 13:38 Sequence: 157

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6439.643	6428.799	6478.707	6411.423
YTTRIUM	360.073	Axial	62891.03	62980.63	63185.33	62507.13
YTTRIUM	360.073	Radial	4705.157	4709.492	4743.944	4662.035
INDIUM	230.606	Axial	1368.845	1372.070	1373.654	1360.810

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.14103	-0.01319945	0.02519740	-0.02845634	-0.03633940
ANTIMONY	206.833	Axial	0.7923740	0.003647408	0.009579186	-0.001030735	0.002393774
ARSENIC	189.042	Axial	1.272309	0.001028280	0.002421147	-0.0002611051	0.0009247980
BARIUM	233.527	Axial	-5.06508	0.0005155244	0.0003049140	0.0007360104	0.0005056489
BERYLLIUM	313.042	Radial	2.089909	-0.00005065147	-0.0001296910	0.00006106723	-0.00008333063
BORON	249.678	Radial	0.1454610	0.001462457	0.0001409090	-0.001956371	0.006202832
CADMIUM	228.802	Axial	8.537224	-0.0001435585	0.00005574843	-0.0001776478	-0.0003087760
CALCIUM	317.933	Radial	14.60982	0.01330640	0.01108141	0.01179147	0.01704631
CERIUM	535.353	Radial	12.64937	-0.06861453	-0.04311036	-0.06434203	-0.09839120
CHROMIUM	267.716	Axial	-7.52321	0.0005808210	0.002349256	-0.0003608227	-0.0002459708
COBALT	228.616	Axial	-7.22904	-0.0006608877	-0.0006119905	-0.0007955800	-0.0005750925
COPPER	324.754	Axial	-6.83905	0.0009352019	0.0005987125	0.002143195	0.00006369864
IRON	259.940	Radial	2.707427	0.005637142	0.009252081	0.003370963	0.004288382
LANTHANUM	333.749	Radial	0.9099515	0.009901106	0.008085384	0.01187145	0.009746481
LEAD	220.353	Axial	0.7032829	0.001503785	0.003512414	-0.001087399	0.002086340
LITHIUM	670.784	Radial	-2.44832	0.004532977	0.006502489	0.0006806402	0.006415800
MAGNESIUM	279.079	Radial	-2.67924	0.001154680	0.01371312	-0.02008996	0.009840870
MANGANESE	257.610	Axial	-11.6877	0.00008676466	0.00007800924	0.00007215708	0.0001101277
MOLYBDENUM	202.030	Axial	1.297111	0.001127955	-0.0004715620	0.002081428	0.001773998
NICKEL	231.604	Axial	0.8648467	-0.0004337370	-0.002077834	0.002027668	-0.001251045
PHOSPHORUS	177.495	Axial	1.392599	0.001324550	-0.0004985297	0.001381642	0.003090539
POTASSIUM	766.490	Radial	-21.8636	-0.01283237	-0.004146163	-0.009522128	-0.02482883
SELENIUM	196.090	Axial	-0.01818238	-0.0008025765	0.003923691	-0.01413832	0.007806898
SILICON	251.611	Axial	12.60205	0.001989246	0.0006290969	0.002423271	0.002915369
SILVER	328.068	Axial	-14.4723	0.0008789422	0.001624632	0.0003884588	0.0006237354
SODIUM	589.592	Radial	-28.6613	-0.06253023	-0.04701669	-0.06431186	-0.07626213
STRONTIUM	421.552	Radial	4.181332	-0.0002613117	-0.0001575395	-0.0005411647	-0.00008523080
SULFUR	182.034	Axial	3.198458	-0.01682601	-0.009556914	-0.02776154	-0.01315956
THALLIUM	190.856	Axial	-1.17168	-0.001797772	0.0009541051	-0.002413459	-0.003933963
TIN	189.989	Axial	-0.2898977	0.0007436062	-0.0004962996	0.0008103386	0.001916779
TITANIUM	334.941	Radial	-2.00194	0.0005115473	0.0006002287	0.001188937	-0.0002545240
VANADIUM	292.402	Radial	-1.29480	0.0004064006	0.003250973	0.001077806	-0.003109577
ZINC	206.200	Axial	3.398264	-0.00008663794	-0.0001924767	0.00001040738	-0.00007784450

Sample ID: MSD DF: 1x Ref Sample ID: L1838014-01 Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:40 Sequence: 158

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6794.152	6742.668	6825.884	6813.905
YTTRIUM	360.073	Axial	63058.83	62451.44	63012.43	63712.62
YTTRIUM	360.073	Radial	4929.890	4966.854	4921.355	4901.461
INDIUM	230.606	Axial	1243.251	1222.589	1251.237	1255.927

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	201.6838	0.9620643	0.9696975	0.9655535	0.9509420
BARIUM	233.527	Axial	10935.35	1.720806	1.728921	1.721112	1.712385
BORON	249.678	Radial	196.1633	0.9080860	0.9128693	0.9098178	0.9015710
CADMIUM	228.802	Axial	2129.313	0.9432206	0.9447189	0.9463112	0.9386316
CHROMIUM	267.716	Axial	2457.690	1.001275	0.9958219	1.015301	0.9927016
COBALT	228.616	Axial	1004.961	1.024326	1.038205	1.018441	1.016331
LEAD	220.353	Axial	532.3393	1.261669	1.274723	1.258902	1.251380
LITHIUM	670.784	Radial	1154.397	1.072514	1.071476	1.076739	1.069325
SELENIUM	196.090	Axial	81.13547	0.8555012	0.8565744	0.8442225	0.8657068
SILVER	328.068	Axial	748.8673	0.1933868	0.1962735	0.1917570	0.1921300
ALUMINUM	308.215	Radial	2204.433	37.19532	37.19194	37.38872	37.00528
ANTIMONY	206.833	Axial	117.7968	0.8048363	0.8022942	0.8073885	0.8048262
BERYLLIUM	313.042	Radial	15935.77	0.9623850	0.9622047	0.9643581	0.9605921
CALCIUM	373.690	Radial	39508.82	387.1651	386.3326	387.4685	387.6943
CERIUM	535.353	Radial	29.93895	0.1152493	0.06544996	0.1367405	0.1435573
COPPER	324.754	Axial	4730.048	1.062074	1.067304	1.061780	1.057138
IRON	271.441	Radial	1663.166	78.03348	78.07831	78.64970	77.37242
LANTHANUM	333.749	Radial	24.69731	0.05307084	0.04799888	0.05591614	0.05529751
MAGNESIUM	279.079	Radial	2608.069	29.63404	29.68073	29.81619	29.40519
MANGANESE	257.610	Axial	99382.99	4.376597	4.393076	4.369763	4.366953
MOLYBDENUM	202.030	Axial	646.6335	0.9105722	0.9116116	0.9145847	0.9055202
NICKEL	231.604	Axial	953.2697	1.065227	1.080542	1.064916	1.050223
PHOSPHORUS	177.495	Axial	711.0627	3.609876	3.600925	3.657635	3.571069
POTASSIUM	766.490	Radial	1376.748	14.13305	14.06952	14.15343	14.17620
SILICON	251.611	Axial	15580.51	14.67313	14.63624	14.99594	14.38722
SODIUM	589.592	Radial	4222.220	11.03621	10.99259	11.13838	10.97766
STRONTIUM	421.552	Radial	16845.15	1.553410	1.566916	1.541187	1.552128
SULFUR	182.034	Axial	607.9707	11.50794	11.44370	11.78726	11.29286
THALLIUM	190.856	Axial	180.5498	0.9748590	0.9809753	0.9852643	0.9583373
TIN	189.989	Axial	383.0617	0.9787189	0.9913325	0.9845378	0.9602865
TITANIUM	334.941	Radial	1609.888	0.9335832	0.9345977	0.9406123	0.9255395
VANADIUM	292.402	Radial	666.0083	1.062282	1.060153	1.072199	1.054493
ZINC	206.200	Axial	3456.764	1.396524	1.415178	1.368009	1.406386

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-02 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:41 Sequence: 159

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6656.659	6682.889	6591.885	6695.204
YTTRIUM	360.073	Axial	62236.43	62365.32	62032.47	62311.51
YTTRIUM	360.073	Radial	4811.492	4802.922	4769.961	4861.593
INDIUM	230.606	Axial	1214.838	1225.607	1205.041	1213.866

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.401947	0.01615350	0.01223756	0.01967263	0.01655030
BARIUM	233.527	Axial	3835.634	0.6169316	0.6151169	0.6213597	0.6143183
BORON	249.678	Radial	-0.6925196	-0.002528383	-0.01307336	0.007465759	-0.001977553
CADMIUM	228.802	Axial	11.38487	0.001017005	0.0009211482	0.0006449812	0.001484885
CHROMIUM	267.716	Axial	100.8805	0.04559457	0.04562310	0.04634149	0.04481912
COBALT	228.616	Axial	37.07475	0.04443716	0.04351972	0.04469955	0.04509220
LEAD	220.353	Axial	35.02182	0.08491511	0.08663604	0.08300245	0.08510685
LITHIUM	670.784	Radial	22.13795	0.02780313	0.02868771	0.02398542	0.03073627
SELENIUM	196.090	Axial	-0.09622833	-0.001632106	0.003697705	0.006741246	-0.01533527
SILVER	328.068	Axial	-7.51567	0.002617741	0.001823122	0.002318207	0.003711894
ALUMINUM	308.215	Radial	1581.836	27.36818	27.52153	27.33680	27.24620
ANTIMONY	206.833	Axial	1.255552	0.006635678	0.01157060	-0.004097828	0.01243426
BERYLLIUM	313.042	Radial	63.35066	0.003738524	0.003782187	0.003761568	0.003671818
CALCIUM	373.690	Radial	79974.34	802.9553	806.3467	801.5998	800.9194
CERIUM	535.353	Radial	27.24421	0.09274847	0.06471574	0.1045256	0.1090041
COPPER	324.754	Axial	244.4230	0.05794948	0.05937896	0.05732430	0.05714520
IRON	271.441	Radial	1542.788	74.16636	74.35782	73.86212	74.27916
LANTHANUM	333.749	Radial	32.18751	0.06808155	0.06633770	0.06594687	0.07196008
MAGNESIUM	279.079	Radial	2177.208	25.35267	25.43631	25.35815	25.26355
MANGANESE	257.610	Axial	72926.78	3.278061	3.273632	3.295699	3.264852
MOLYBDENUM	202.030	Axial	3.678014	0.004496174	0.003101101	0.005483346	0.004904075
NICKEL	231.604	Axial	59.05670	0.06630723	0.06468881	0.06664188	0.06759099
PHOSPHORUS	177.495	Axial	496.5905	2.571329	2.573205	2.555986	2.584795
POTASSIUM	766.490	Radial	499.1470	5.387284	5.401958	5.346224	5.413670
SILICON	251.611	Axial	10722.69	10.22790	10.36951	10.18596	10.12822
SODIUM	589.592	Radial	488.8854	1.323352	1.325594	1.327913	1.316548
STRONTIUM	421.552	Radial	19338.28	1.827390	1.837304	1.824179	1.820688
SULFUR	182.034	Axial	115.4767	2.165489	2.221074	2.142870	2.132522
THALLIUM	190.856	Axial	-1.24801	-0.002941402	-0.002066593	-0.003355579	-0.003402035
TIN	189.989	Axial	0.7301118	0.003326483	0.001800497	0.004734489	0.003444464
TITANIUM	334.941	Radial	191.4994	0.1152994	0.1141624	0.1151430	0.1165930
VANADIUM	292.402	Radial	63.28096	0.1057528	0.1081844	0.1055010	0.1035730
ZINC	206.200	Axial	490.6492	0.2010014	0.1974649	0.2037011	0.2018384

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-03 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:43 Sequence: 160

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6963.688	6972.126	6963.775	6955.161
YTTRIUM	360.073	Axial	64646.08	64821.95	65325.54	63790.76
YTTRIUM	360.073	Radial	4934.530	4922.853	4916.728	4964.011
INDIUM	230.606	Axial	1315.040	1314.877	1322.353	1307.891

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	6.007284	0.02270012	0.02288112	0.02357445	0.02164478
BARIUM	233.527	Axial	6029.531	0.9263289	0.9253653	0.9298518	0.9237697
BORON	249.678	Radial	0.8986672	0.004881596	0.002680789	0.005364652	0.006599348
CADMIUM	228.802	Axial	13.81100	0.001844172	0.001945863	0.001702191	0.001884463
CHROMIUM	267.716	Axial	132.2759	0.05617959	0.05746815	0.05558701	0.05548363
COBALT	228.616	Axial	51.62348	0.05543908	0.05601269	0.05549804	0.05480650
LEAD	220.353	Axial	144.2304	0.3231287	0.3278937	0.3220979	0.3193947
LITHIUM	670.784	Radial	14.31806	0.02009103	0.01760281	0.02261219	0.02005807
SELENIUM	196.090	Axial	-0.08906819	-0.001558293	0.003075096	-0.01314528	0.005395306
SILVER	328.068	Axial	-6.19585	0.003014571	0.002626297	0.003224930	0.003192487
ALUMINUM	308.215	Radial	1942.662	32.75730	32.76208	32.80715	32.70268
ANTIMONY	206.833	Axial	0.8665074	0.003695112	0.01227529	0.0009734610	-0.002163419
BERYLLIUM	313.042	Radial	84.86870	0.004938759	0.004846173	0.004952426	0.005017679
CALCIUM	373.690	Radial	21037.68	205.9756	205.3868	206.0867	206.4532
CERIUM	535.353	Radial	29.34986	0.1084717	0.1652379	0.1210814	0.03909573
COPPER	324.754	Axial	498.2924	0.1113517	0.1122426	0.1112065	0.1106060
IRON	271.441	Radial	2008.195	94.13557	94.41138	94.01730	93.97805
LANTHANUM	333.749	Radial	37.72206	0.07665871	0.07683715	0.07751383	0.07562513
MAGNESIUM	279.079	Radial	934.2562	10.62681	10.68226	10.59357	10.60459
MANGANESE	257.610	Axial	97186.15	4.175619	4.173812	4.200824	4.152220
MOLYBDENUM	202.030	Axial	3.584339	0.004128791	0.005267422	0.004432867	0.002686084
NICKEL	231.604	Axial	72.54269	0.07541422	0.07599693	0.07462125	0.07562448
PHOSPHORUS	177.495	Axial	513.1297	2.539830	2.521968	2.561255	2.536267
POTASSIUM	766.490	Radial	320.0789	3.450613	3.492156	3.430748	3.428936
SILICON	251.611	Axial	12559.32	11.53585	11.59833	11.33774	11.67148
SODIUM	589.592	Radial	694.7965	1.827635	1.839876	1.812300	1.830728
STRONTIUM	421.552	Radial	5002.083	0.4603873	0.4584639	0.4619911	0.4607067
SULFUR	182.034	Axial	135.0730	2.430970	2.431849	2.437019	2.424043
THALLIUM	190.856	Axial	-1.37944	-0.003084829	0.003305413	-0.005523936	-0.007035965
TIN	189.989	Axial	1.028640	0.003892795	0.004743044	0.003507963	0.003427376
TITANIUM	334.941	Radial	282.1152	0.1648737	0.1661416	0.1630983	0.1653811
VANADIUM	292.402	Radial	76.95370	0.1249069	0.1249091	0.1249296	0.1248821
ZINC	206.200	Axial	1631.979	0.6423999	0.6337726	0.6544324	0.6389947

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-04 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:45 Sequence: 161

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6865.556	6881.487	6785.181	6930.001
YTTRIUM	360.073	Axial	64125.22	64673.31	63115.38	64586.99
YTTRIUM	360.073	Radial	4953.812	4906.709	4982.999	4971.726
INDIUM	230.606	Axial	1265.317	1270.123	1248.132	1277.696

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.070368	0.01861811	0.02135567	0.01246156	0.02203709
BARIUM	233.527	Axial	4454.374	0.6944570	0.6947453	0.6944685	0.6941573
BORON	249.678	Radial	0.3133156	0.002200941	0.007566238	-0.0004334721	-0.0005299427
CADMIUM	228.802	Axial	11.48005	0.0009027266	0.0009552411	0.0007620334	0.0009909052
CHROMIUM	267.716	Axial	95.72755	0.04225346	0.04244964	0.04275169	0.04155905
COBALT	228.616	Axial	44.26796	0.05005793	0.05083983	0.04947096	0.04986299
LEAD	220.353	Axial	38.26842	0.08911641	0.08607008	0.09244508	0.08883408
LITHIUM	670.784	Radial	13.95203	0.01971198	0.02165340	0.01807211	0.01941044
SELENIUM	196.090	Axial	-0.2430288	-0.003169045	-0.007151157	-0.0002635787	-0.002092398
SILVER	328.068	Axial	-3.70575	0.003612863	0.003934850	0.002795870	0.004107870
ALUMINUM	308.215	Radial	1805.196	30.32658	30.35426	30.33555	30.28994
ANTIMONY	206.833	Axial	2.125715	0.01238196	0.0006151147	0.02515055	0.01138023
BERYLLIUM	313.042	Radial	75.19892	0.004338145	0.004431406	0.004388601	0.004194428
CALCIUM	373.690	Radial	53442.21	521.1656	522.2244	520.9254	520.3469
CERIUM	535.353	Radial	25.47732	0.06463133	0.07063818	0.08510868	0.03814713
COPPER	324.754	Axial	274.2224	0.06288904	0.06278827	0.06392359	0.06195525
IRON	271.441	Radial	1512.095	70.60451	70.83504	70.45854	70.51993
LANTHANUM	333.749	Radial	32.69826	0.06730637	0.06772302	0.06673045	0.06746563
MAGNESIUM	279.079	Radial	758.4759	8.600324	8.656657	8.572063	8.572251
MANGANESE	257.610	Axial	51521.33	2.245552	2.250458	2.242989	2.243208
MOLYBDENUM	202.030	Axial	3.988664	0.004763295	0.004707208	0.004650351	0.004932325
NICKEL	231.604	Axial	64.30692	0.06938830	0.07083885	0.07074977	0.06657628
PHOSPHORUS	177.495	Axial	524.7440	2.634638	2.584812	2.647491	2.671610
POTASSIUM	766.490	Radial	447.4338	4.718858	4.724268	4.772896	4.659410
SILICON	251.611	Axial	15114.80	13.99760	13.87711	14.13814	13.97754
SODIUM	589.592	Radial	249.1795	0.6631703	0.6722848	0.6574715	0.6597547
STRONTIUM	421.552	Radial	3580.757	0.3281060	0.3301407	0.3263763	0.3278009
SULFUR	182.034	Axial	139.4256	2.548985	2.507467	2.562263	2.577225
THALLIUM	190.856	Axial	-0.6613681	0.0004612226	0.003469408	0.002940798	-0.005026538
TIN	189.989	Axial	0.7412462	0.003276580	0.001883368	0.004475206	0.003471167
TITANIUM	334.941	Radial	292.2808	0.1700982	0.1703535	0.1695307	0.1704104
VANADIUM	292.402	Radial	67.32270	0.1091749	0.1083263	0.1116364	0.1075621
ZINC	206.200	Axial	2712.145	1.083841	1.087135	1.074698	1.089689

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-05 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:46 Sequence: 162

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6977.700	6932.678	6950.346	7050.075
YTTRIUM	360.073	Axial	65545.76	65165.81	65724.00	65747.47
YTTRIUM	360.073	Radial	5001.301	5005.498	5026.840	4971.567
INDIUM	230.606	Axial	1313.868	1304.019	1317.679	1319.908

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.972123	0.02249135	0.02139467	0.02617615	0.01990323
BARIUM	233.527	Axial	7000.290	1.073088	1.069688	1.075707	1.073869
BORON	249.678	Radial	2.859103	0.01377954	0.01013349	0.01328390	0.01792123
CADMIUM	228.802	Axial	12.06210	0.001072031	0.0003666129	0.001382667	0.001466811
CHROMIUM	267.716	Axial	102.5153	0.04431606	0.04477183	0.04420901	0.04396734
COBALT	228.616	Axial	25.73483	0.03066754	0.03158397	0.03026212	0.03015652
LEAD	220.353	Axial	46.62840	0.1045528	0.1045370	0.1081831	0.1009384
LITHIUM	670.784	Radial	16.68117	0.02205088	0.02436673	0.02415063	0.01763529
SELENIUM	196.090	Axial	0.7954889	0.007551476	0.009697216	0.009372486	0.003584727
SILVER	328.068	Axial	-9.74195	0.002173507	0.001717045	0.002436918	0.002366558
ALUMINUM	308.215	Radial	2073.418	34.49123	34.66772	34.33454	34.47141
ANTIMONY	206.833	Axial	0.7196301	0.002678286	0.0005377142	-0.001384992	0.008882137
BERYLLIUM	313.042	Radial	65.71588	0.003730339	0.003646766	0.003751267	0.003792984
CALCIUM	373.690	Radial	27717.43	267.7444	268.5082	267.4164	267.3085
CERIUM	535.353	Radial	29.84584	0.1094573	0.1243471	0.06993317	0.1340916
COPPER	324.754	Axial	321.1966	0.07169818	0.07270683	0.07126521	0.07112250
IRON	271.441	Radial	1222.717	56.54878	56.73374	56.42307	56.48953
LANTHANUM	333.749	Radial	44.72485	0.08827496	0.08565843	0.09247498	0.08669146
MAGNESIUM	279.079	Radial	1304.544	14.62819	14.66558	14.57283	14.64616
MANGANESE	257.610	Axial	47903.08	2.054398	2.056333	2.061135	2.045725
MOLYBDENUM	202.030	Axial	2.116493	0.002107079	0.002767838	0.001645915	0.001907484
NICKEL	231.604	Axial	48.33360	0.04985247	0.04950885	0.04914918	0.05089938
PHOSPHORUS	177.495	Axial	723.4888	3.576235	3.578595	3.550311	3.599800
POTASSIUM	766.490	Radial	599.1837	6.187931	6.229462	6.154505	6.179826
SILICON	251.611	Axial	16521.70	14.96858	15.03281	14.98754	14.88539
SODIUM	589.592	Radial	419.5783	1.095451	1.092645	1.078237	1.115472
STRONTIUM	421.552	Radial	5860.005	0.5322571	0.5335735	0.5303754	0.5328224
SULFUR	182.034	Axial	178.5060	3.232186	3.226934	3.256954	3.212671
THALLIUM	190.856	Axial	-0.7576970	0.00008672533	0.002957695	0.0005471730	-0.003244692
TIN	189.989	Axial	0.5318690	0.002706007	0.005202803	0.002680273	0.0002349454
TITANIUM	334.941	Radial	612.0110	0.3509302	0.3519891	0.3496362	0.3511654
VANADIUM	292.402	Radial	72.28565	0.1159522	0.1152231	0.1164084	0.1162251
ZINC	206.200	Axial	853.8351	0.3346884	0.3356842	0.3338161	0.3345648

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-06 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:48 Sequence: 163

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6727.736	6714.531	6714.443	6754.233
YTTRIUM	360.073	Axial	62283.92	62434.98	62371.66	62045.13
YTTRIUM	360.073	Radial	4876.315	4909.140	4865.913	4853.891
INDIUM	230.606	Axial	1193.685	1195.540	1195.496	1190.019

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.218052	0.01986917	0.02030893	0.02234652	0.01695207
BARIUM	233.527	Axial	5893.352	0.9371515	0.9443902	0.9325640	0.9345004
BORON	249.678	Radial	14.35756	0.06786322	0.07030991	0.07146712	0.06181264
CADMIUM	228.802	Axial	35.36442	0.01173752	0.01124447	0.01167709	0.01229100
CHROMIUM	267.716	Axial	82.54511	0.03763568	0.03736263	0.03877942	0.03676499
COBALT	228.616	Axial	27.76957	0.03529443	0.03512435	0.03608497	0.03467396
LEAD	220.353	Axial	128.1384	0.3162654	0.3198764	0.3133208	0.3155990
LITHIUM	670.784	Radial	20.13158	0.02566505	0.02764323	0.02623207	0.02311984
SELENIUM	196.090	Axial	0.2429070	0.001922516	-0.003784328	-0.004337035	0.01388891
SILVER	328.068	Axial	-7.48856	0.002625924	0.003396315	0.001947023	0.002534434
ALUMINUM	308.215	Radial	1407.467	24.03704	23.92759	24.13415	24.04936
ANTIMONY	206.833	Axial	0.7814557	0.003330105	0.01164972	0.002340592	-0.004000003
BERYLLIUM	313.042	Radial	52.71682	0.003037012	0.002977815	0.002937859	0.003195361
CALCIUM	373.690	Radial	137977.7	1366.881	1363.538	1371.122	1365.984
CERIUM	535.353	Radial	23.89679	0.05138311	0.06829066	0.08498799	0.0008706720
COPPER	324.754	Axial	341.0407	0.07982096	0.08067468	0.07875429	0.08003392
IRON	271.441	Radial	1297.208	61.53247	61.29181	61.95643	61.34918
LANTHANUM	333.749	Radial	29.90006	0.06310391	0.06298214	0.06288805	0.06344154
MAGNESIUM	279.079	Radial	8954.415	102.7829	102.5080	103.0448	102.7959
MANGANESE	257.610	Axial	69402.74	3.086726	3.123000	3.089004	3.048176
MOLYBDENUM	202.030	Axial	8.470568	0.01125783	0.01249762	0.01024995	0.01102591
NICKEL	231.604	Axial	76.07229	0.08732253	0.08730485	0.08869823	0.08596452
PHOSPHORUS	177.495	Axial	595.3510	3.051474	3.094289	3.058144	3.001990
POTASSIUM	766.490	Radial	414.0851	4.449732	4.441410	4.393326	4.514458
SILICON	251.611	Axial	14287.14	13.62106	13.58281	13.57291	13.70745
SODIUM	589.592	Radial	586.4005	1.563257	1.560161	1.569360	1.560250
STRONTIUM	421.552	Radial	17519.75	1.633437	1.639463	1.622520	1.638327
SULFUR	182.034	Axial	563.5692	10.76821	10.89425	10.75964	10.65074
THALLIUM	190.856	Axial	-1.72772	-0.005739396	-0.006616016	-0.009121323	-0.001480850
TIN	189.989	Axial	0.8186138	0.003581438	0.006828337	0.003995323	-0.00007934654
TITANIUM	334.941	Radial	1290.271	0.7568038	0.7558481	0.7508514	0.7637120
VANADIUM	292.402	Radial	49.16014	0.08166092	0.08113288	0.08071072	0.08313917
ZINC	206.200	Axial	4648.285	1.896942	1.922237	1.906340	1.862248

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-07 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:50 Sequence: 164

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6858.011	6835.501	6875.154	6863.377
YTTRIUM	360.073	Axial	63469.28	63119.08	63456.15	63832.62
YTTRIUM	360.073	Radial	4852.902	4854.922	4833.392	4870.392
INDIUM	230.606	Axial	1241.601	1232.349	1248.987	1243.467

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.469832	0.02059134	0.02704432	0.01564441	0.01908531
BARIUM	233.527	Axial	4526.939	0.7065045	0.6940600	0.7081558	0.7172978
BORON	249.678	Radial	-2.07482	-0.009013069	-0.008516961	-0.007905607	-0.01061664
CADMIUM	228.802	Axial	10.89802	0.0006528093	0.0007148964	0.0004464809	0.0007970505
CHROMIUM	267.716	Axial	145.5495	0.06232081	0.05983937	0.06327798	0.06384507
COBALT	228.616	Axial	54.04141	0.06081857	0.06016601	0.05928241	0.06300729
LEAD	220.353	Axial	40.79052	0.09678402	0.09681763	0.09655874	0.09697569
LITHIUM	670.784	Radial	34.65711	0.03939327	0.04199719	0.04158545	0.03459716
SELENIUM	196.090	Axial	0.8163507	0.007902824	0.01247759	-0.001070306	0.01230119
SILVER	328.068	Axial	-2.61831	0.003878193	0.002951703	0.003608705	0.005074172
ALUMINUM	308.215	Radial	2241.380	38.41610	38.36581	38.31821	38.56427
ANTIMONY	206.833	Axial	0.4306705	0.0008423745	0.005920531	-0.004549710	0.001156303
BERYLLIUM	313.042	Radial	83.25446	0.004926285	0.004928470	0.005010532	0.004839852
CALCIUM	373.690	Radial	61903.07	616.2159	617.3829	615.4227	615.8422
CERIUM	535.353	Radial	30.23655	0.1236145	0.1059880	0.1330732	0.1317822
COPPER	324.754	Axial	288.1650	0.06660907	0.06674341	0.06668807	0.06639572
IRON	271.441	Radial	2255.533	107.5082	108.3511	107.1203	107.0532
LANTHANUM	333.749	Radial	33.92839	0.07080589	0.07530343	0.06950803	0.06760622
MAGNESIUM	279.079	Radial	2283.122	26.35744	26.39523	26.34290	26.33420
MANGANESE	257.610	Axial	77691.81	3.389542	3.339597	3.379128	3.449901
MOLYBDENUM	202.030	Axial	3.979890	0.004756414	0.003831834	0.005496784	0.004940624
NICKEL	231.604	Axial	92.41252	0.1021993	0.1003391	0.1041577	0.1021012
PHOSPHORUS	177.495	Axial	543.0801	2.729852	2.666352	2.749046	2.774158
POTASSIUM	766.490	Radial	641.9343	6.809361	6.869399	6.788893	6.769790
SILICON	251.611	Axial	14301.31	13.37959	13.27583	13.57089	13.29204
SODIUM	589.592	Radial	416.4208	1.120024	1.130808	1.117190	1.112074
STRONTIUM	421.552	Radial	14320.51	1.341472	1.320030	1.342292	1.362093
SULFUR	182.034	Axial	106.1678	1.923733	1.876897	1.940270	1.954033
THALLIUM	190.856	Axial	-1.32788	-0.003207199	-0.0008505638	-0.006842936	-0.001928097
TIN	189.989	Axial	-0.4505028	0.0002613875	0.0003615224	0.0004263349	-0.000003694619
TITANIUM	334.941	Radial	309.1033	0.1834916	0.1795677	0.1859074	0.1849997
VANADIUM	292.402	Radial	77.26922	0.1274791	0.1260594	0.1299051	0.1264729
ZINC	206.200	Axial	617.6512	0.2459256	0.2439084	0.2439716	0.2498966

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-08 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:51 Sequence: 165

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6678.465	6643.549	6638.486	6753.359
YTTRIUM	360.073	Axial	59784.02	59755.92	60036.10	59560.06
YTTRIUM	360.073	Radial	4824.084	4845.314	4841.340	4785.598
INDIUM	230.606	Axial	1123.700	1117.283	1121.396	1132.420

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	17.21769	0.07862641	0.08105224	0.07953953	0.07528745
BARIUM	233.527	Axial	83784.12	13.40442	13.43976	13.55428	13.21922
BORON	249.678	Radial	491.0156	2.321832	2.325135	2.309466	2.330896
CADMIUM	228.802	Axial	19.45805	0.004656223	0.004113608	0.005174432	0.004680629
CHROMIUM	267.716	Axial	609.3184	0.2553818	0.2525788	0.2569075	0.2566591
COBALT	228.616	Axial	105.2851	0.1240171	0.1236879	0.1253203	0.1230430
LEAD	220.353	Axial	47.12223	0.1235535	0.1247889	0.1255735	0.1202982
LITHIUM	670.784	Radial	152.8253	0.1510399	0.1513471	0.1541565	0.1476161
SELENIUM	196.090	Axial	-1.03643	-0.01180239	-0.02871580	-0.001597886	-0.005093472
SILVER	328.068	Axial	-3.36924	0.003636544	0.005296809	0.005021548	0.0005912737
ALUMINUM	308.215	Radial	16659.90	286.7516	286.5311	285.9986	287.7252
ANTIMONY	206.833	Axial	-4.62926	-0.03434929	-0.02940607	-0.03873832	-0.03490347
BERYLLIUM	313.042	Radial	212.5168	0.01293599	0.01293933	0.01284964	0.01301901
CALCIUM	373.690	Radial	107382.7	1075.317	1074.544	1073.827	1077.580
CERIUM	535.353	Radial	51.51165	0.3648591	0.3511445	0.3683968	0.3750359
COPPER	324.754	Axial	2547.906	0.6044787	0.6040223	0.6084129	0.6010007
IRON	271.441	Radial	2558.722	122.6904	122.3469	122.6258	123.0983
LANTHANUM	333.749	Radial	51.00294	0.1028909	0.1010777	0.1035062	0.1040888
MAGNESIUM	279.079	Radial	7807.186	90.58883	90.49156	90.45159	90.82335
MANGANESE	257.610	Axial	14412.55	0.6462861	0.6492875	0.6553463	0.6342245
MOLYBDENUM	202.030	Axial	33.55002	0.04730778	0.04780545	0.04718167	0.04693623
NICKEL	231.604	Axial	155.2395	0.1908297	0.1928749	0.1880861	0.1915282
PHOSPHORUS	177.495	Axial	3000.790	15.51925	15.46175	15.68507	15.41092
POTASSIUM	766.490	Radial	995.3803	10.49953	10.44516	10.46059	10.59285
SILICON	251.611	Axial	119089.8	118.3638	116.1758	117.9006	121.0150
SODIUM	818.326	Radial	252.6916	27.49135	27.77253	27.29207	27.40945
STRONTIUM	421.552	Radial	98097.82	9.248138	9.333189	9.189377	9.221848
SULFUR	182.034	Axial	10577.67	205.0431	202.2239	206.5733	206.3319
THALLIUM	190.856	Axial	-0.2337886	0.002561933	0.007996873	0.002006861	-0.002317936
TIN	189.989	Axial	5.285396	0.01631882	0.01376430	0.01654607	0.01864608
TITANIUM	334.941	Radial	35064.52	20.74374	20.69436	20.76888	20.76798
VANADIUM	292.402	Radial	536.1404	0.8743897	0.8702354	0.8708814	0.8820522
ZINC	206.200	Axial	1267.648	0.5200932	0.5347930	0.5215375	0.5039491

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838002-09 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:53 Sequence: 166

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6845.664	6801.494	6862.788	6872.711
YTTRIUM	360.073	Axial	64995.69	65012.54	65030.10	64944.43
YTTRIUM	360.073	Radial	4834.385	4837.640	4851.836	4813.678
INDIUM	230.606	Axial	1358.666	1357.230	1352.729	1366.039

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	10.35146	0.04386924	0.04361150	0.05028702	0.03770921
BARIUM	233.527	Axial	3945.436	0.6170611	0.6208799	0.6134393	0.6168640
BORON	249.678	Radial	0.3562544	0.002419391	0.001986076	0.0005063819	0.004765715
CADMIUM	228.802	Axial	22.72364	0.005880761	0.005229156	0.005708547	0.006704581
CHROMIUM	267.716	Axial	108.1212	0.04735407	0.04757496	0.04680991	0.04767734
COBALT	228.616	Axial	77.61874	0.07795817	0.07762708	0.07965663	0.07659081
LEAD	220.353	Axial	68.44716	0.1484171	0.1471003	0.1489761	0.1491749
LITHIUM	670.784	Radial	16.47556	0.02238475	0.02212165	0.02621048	0.01882211
SELENIUM	196.090	Axial	-0.4972504	-0.005877412	-0.01381952	-0.006015257	0.002202541
SILVER	328.068	Axial	-7.82064	0.002624421	0.003798283	0.002708479	0.001366502
ALUMINUM	308.215	Radial	1477.958	25.45506	25.43514	25.39855	25.53150
ANTIMONY	206.833	Axial	1.419170	0.007551278	0.006254426	0.002555247	0.01384416
BERYLLIUM	313.042	Radial	78.58379	0.004657951	0.004581779	0.004701454	0.004690619
CALCIUM	317.933	Radial	2458.445	12.19440	12.24565	11.91919	12.41835
CERIUM	535.353	Radial	25.99826	0.07725626	0.09417273	0.1043611	0.03323495
COPPER	324.754	Axial	663.1780	0.1466045	0.1451951	0.1478791	0.1467394
IRON	271.441	Radial	2141.690	102.4732	101.9828	102.6763	102.7604
LANTHANUM	333.749	Radial	20.65312	0.04643917	0.04755167	0.04789102	0.04387483
MAGNESIUM	279.079	Radial	295.1894	3.449539	3.405300	3.470072	3.473244
MANGANESE	257.610	Axial	99964.70	4.369054	4.377249	4.363526	4.366387
MOLYBDENUM	202.030	Axial	16.30095	0.02199994	0.02109358	0.02251792	0.02238831
NICKEL	231.604	Axial	98.16160	0.09917014	0.1002064	0.09742799	0.09987606
PHOSPHORUS	177.495	Axial	571.1486	2.876639	2.906479	2.844793	2.878646
POTASSIUM	766.490	Radial	247.3440	2.767904	2.739126	2.782127	2.782460
SILICON	251.611	Axial	7525.887	6.870685	6.851876	6.854010	6.906168
SODIUM	589.592	Radial	195.5701	0.5363981	0.5257177	0.5540591	0.5294176
STRONTIUM	421.552	Radial	1110.894	0.1038526	0.1038779	0.1021543	0.1055256
SULFUR	182.034	Axial	623.3647	11.71253	11.75894	11.72155	11.65709
THALLIUM	190.856	Axial	-2.34935	-0.007630046	-0.003325119	-0.01058512	-0.008979897
TIN	189.989	Axial	0.1922615	0.001855180	0.0001698851	0.001224066	0.004171588
TITANIUM	334.941	Radial	347.8490	0.2070569	0.2064395	0.2072815	0.2074497
VANADIUM	292.402	Radial	67.07298	0.1114050	0.1127491	0.1119971	0.1094688
ZINC	206.200	Axial	2180.783	0.8737950	0.8810069	0.8616271	0.8787511

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838014-02 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 13:55 Sequence: 167

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6978.067	7005.805	6889.807	7038.588
YTTRIUM	360.073	Axial	64793.46	64904.59	64333.97	65141.83
YTTRIUM	360.073	Radial	4876.886	4849.091	4877.386	4904.180
INDIUM	230.606	Axial	1279.999	1274.646	1274.952	1290.399

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.913242	0.02225116	0.02098316	0.02924013	0.01653020
BARIUM	233.527	Axial	7273.629	1.114883	1.124237	1.112699	1.107713
BORON	249.678	Radial	-0.1482945	0.00001580589	-0.009668997	0.006836150	0.002880265
CADMIUM	228.802	Axial	11.67660	0.0009091184	0.0002037324	0.001329248	0.001194375
CHROMIUM	267.716	Axial	118.2226	0.05052205	0.05031250	0.05099688	0.05025678
COBALT	228.616	Axial	77.47323	0.08223558	0.08371598	0.08140344	0.08158732
LEAD	220.353	Axial	72.11915	0.1659783	0.1644458	0.1639573	0.1695319
LITHIUM	670.784	Radial	21.59200	0.02704100	0.03034439	0.02431084	0.02646776
SELENIUM	196.090	Axial	0.01498613	-0.0004720461	-0.005025546	0.002830370	0.0007790378
SILVER	328.068	Axial	-2.38324	0.003953638	0.002464676	0.004474197	0.004922042
ALUMINUM	308.215	Radial	2093.194	35.70628	35.97956	35.51824	35.62104
ANTIMONY	206.833	Axial	1.575776	0.008446418	0.003119382	0.01338922	0.008830656
BERYLLIUM	313.042	Radial	81.14443	0.004772593	0.004989727	0.004591231	0.004736820
CALCIUM	373.690	Radial	41991.58	415.9677	418.6153	413.9978	415.2900
CERIUM	535.353	Radial	31.25710	0.1334261	0.1572392	0.1550954	0.08794377
COPPER	324.754	Axial	441.5937	0.09874996	0.09822892	0.09967619	0.09834478
IRON	271.441	Radial	1770.400	83.97036	84.73572	83.16862	84.00675
LANTHANUM	333.749	Radial	41.26930	0.08397995	0.08444985	0.08254760	0.08494240
MAGNESIUM	279.079	Radial	2389.181	27.44510	27.60382	27.26534	27.46613
MANGANESE	257.610	Axial	103996.4	4.459120	4.478509	4.474275	4.424578
MOLYBDENUM	202.030	Axial	3.599360	0.004137164	0.004254071	0.003670642	0.004486781
NICKEL	231.604	Axial	82.76224	0.08862118	0.08972851	0.08857185	0.08756318
PHOSPHORUS	177.495	Axial	439.8193	2.171549	2.162068	2.168304	2.184275
POTASSIUM	766.490	Radial	420.5064	4.514861	4.556651	4.484328	4.503604
SILICON	251.611	Axial	13229.50	12.12263	12.24324	12.00192	12.12272
SODIUM	589.592	Radial	265.1531	0.7155145	0.7314629	0.7012636	0.7138171
STRONTIUM	421.552	Radial	7759.283	0.7229995	0.7259679	0.7281074	0.7149231
SULFUR	182.034	Axial	209.0127	3.798231	3.784733	3.814741	3.795218
THALLIUM	190.856	Axial	-2.29995	-0.008095053	-0.01084196	-0.008499337	-0.004943861
TIN	189.989	Axial	1.422824	0.004941482	0.006285147	0.004561924	0.003977374
TITANIUM	334.941	Radial	376.1039	0.2218048	0.2240872	0.2197701	0.2215571
VANADIUM	292.402	Radial	69.09981	0.1137223	0.1148786	0.1123873	0.1139009
ZINC	206.200	Axial	3280.500	1.290226	1.281076	1.297072	1.292530

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 13:56 Sequence: 168 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6511.929	6425.199	6512.623	6597.966
YTTRIUM	360.073	Axial	61644.99	61074.71	61369.94	62490.33
YTTRIUM	360.073	Radial	4653.847	4670.058	4620.168	4671.314
INDIUM	230.606	Axial	1288.289	1274.935	1279.543	1310.389

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	548.7957	9.866237	9.851888	9.873112	9.873711
ANTIMONY	206.833	Axial	70.40751	0.5011943	0.5089139	0.5022404	0.4924286
ARSENIC	189.042	Axial	202.5665	1.008397	1.015743	0.9960031	1.013444
BARIUM	233.527	Axial	3146.477	0.5175546	0.5207022	0.5157532	0.5162085
BERYLLIUM	313.042	Radial	3154.881	0.2016870	0.2026183	0.2021190	0.2003236
BORON	249.678	Radial	205.0476	1.005445	1.013420	1.000210	1.002705
CADMIUM	228.802	Axial	1087.687	0.5007872	0.5059600	0.4981012	0.4983004
CALCIUM	373.690	Radial	5012.667	52.06197	52.28390	52.16234	51.73967
CHROMIUM	267.716	Axial	2370.730	1.007740	1.015459	0.9990858	1.008675
COBALT	228.616	Axial	1000.745	0.9845629	0.9906338	0.9867601	0.9762949
COPPER	324.754	Axial	4472.329	1.027347	1.037249	1.024771	1.020019
IRON	259.940	Radial	2593.640	10.56468	10.61335	10.56159	10.51910
LEAD	220.353	Axial	219.6594	0.5023758	0.5003831	0.5078808	0.4988635
LITHIUM	670.784	Radial	1035.142	1.019111	1.027446	1.019827	1.010062
MAGNESIUM	279.079	Radial	856.6364	10.33235	10.41940	10.30166	10.27600
MANGANESE	257.610	Axial	22303.03	1.025284	1.034052	1.024894	1.016906
MOLYBDENUM	202.030	Axial	173.4687	0.2543099	0.2576610	0.2532286	0.2520402
NICKEL	231.604	Axial	902.9894	0.9735610	0.9762874	0.9744986	0.9698970
PHOSPHORUS	177.495	Axial	190.7675	1.006159	1.014265	1.017453	0.9867591
POTASSIUM	766.490	Radial	4713.088	50.67760	50.58523	50.90823	50.53934
SELENIUM	196.090	Axial	90.52554	0.9960301	0.9992153	1.002825	0.9860506
SILICON	251.611	Axial	2134.393	2.047517	2.050965	2.041085	2.050500
SILVER	328.068	Axial	1994.691	0.5190796	0.5207734	0.5204529	0.5160124
SODIUM	818.326	Radial	425.8031	48.53986	49.19109	48.20603	48.22247
STRONTIUM	421.552	Radial	10469.21	1.022500	1.023061	1.021096	1.023343
SULFUR	182.034	Axial	247.2778	4.837195	4.853594	4.878481	4.779510
THALLIUM	190.856	Axial	198.4302	1.033841	1.040952	1.051400	1.009172
TIN	189.989	Axial	200.3357	0.4946149	0.4926654	0.4986812	0.4924981
TITANIUM	334.941	Radial	1644.748	1.010242	1.023406	1.008919	0.9984019
VANADIUM	292.402	Radial	595.4534	1.006208	1.012365	1.002308	1.003950
ZINC	206.200	Axial	2461.307	1.037104	1.051827	1.030885	1.028601
CERIUM	535.353	Radial	16.98669	-0.01640619	-0.03626017	-0.03134716	0.01838876
LANTHANUM	333.749	Radial	-5.81133	-0.003016329	-0.003771281	-0.004077977	-0.001199728

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 13:58 Sequence: 169

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6516.935	6406.847	6514.092	6629.867
YTTRIUM	360.073	Axial	63106.53	62856.45	63268.88	63194.26
YTTRIUM	360.073	Radial	4697.469	4672.092	4709.186	4711.130
INDIUM	230.606	Axial	1373.372	1362.659	1378.221	1379.236

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-2.76715	0.02867434	0.04078827	0.02362693	0.02160782
ANTIMONY	206.833	Axial	0.8557484	0.004066235	0.009560939	0.001098852	0.001538914
ARSENIC	189.042	Axial	1.492950	0.002101640	0.006585106	0.001834287	-0.002114472
BARIUM	233.527	Axial	-4.95112	0.0005458413	0.0006922183	0.0004482960	0.0004970097
BERYLLIUM	313.042	Radial	2.931415	0.000003716470	0.0001614366	-0.00008628898	-0.00006399820
BORON	249.678	Radial	-0.2561777	-0.0005150835	-0.002039557	-0.003708514	0.004202821
CADMIUM	228.802	Axial	8.435501	-0.0002345511	-0.0001228309	0.0001682320	-0.0007490543
CALCIUM	317.933	Radial	13.34777	0.006924533	0.002077055	0.006989546	0.01170700
CERIUM	535.353	Radial	11.02646	-0.08701639	-0.09120068	-0.1004556	-0.06939287
CHROMIUM	267.716	Axial	-7.67154	0.0005571096	0.0004450881	0.001200601	0.00002563929
COBALT	228.616	Axial	-6.68851	-0.0001386139	0.0009629752	0.001608355	-0.002987172
COPPER	324.754	Axial	-6.70042	0.0009747154	0.0009723473	0.001624226	0.0003275733
IRON	259.940	Radial	2.185892	0.003544689	0.002240509	0.003478275	0.004915283
LANTHANUM	333.749	Radial	-0.5792464	0.007067654	0.006575541	0.004950277	0.009677144
LEAD	220.353	Axial	-0.9767367	-0.002103825	-0.0009041988	-0.004800393	-0.0006068821
LITHIUM	670.784	Radial	-5.88171	0.001193163	0.003347341	0.001295076	-0.001062927
MAGNESIUM	279.079	Radial	-1.71144	0.01259764	0.03048296	0.003027499	0.004282466
MANGANESE	257.610	Axial	-9.99053	0.0001713435	0.0002535311	0.00006193270	0.0001985666
MOLYBDENUM	202.030	Axial	1.566081	0.001514227	0.002290445	0.002054265	0.0001979697
NICKEL	231.604	Axial	2.352611	0.001069192	-0.00002916273	0.002756269	0.0004804694
PHOSPHORUS	177.495	Axial	1.294498	0.0007035379	0.0005798663	-0.0008896103	0.002420358
POTASSIUM	766.490	Radial	-17.0240	0.03825130	0.06743892	0.04790217	-0.0005872002
SELENIUM	196.090	Axial	-0.4402607	-0.005487061	-0.007469188	-0.001923893	-0.007068100
SILICON	251.611	Axial	44.56640	0.03204515	0.03198284	0.03184817	0.03230445
SILVER	328.068	Axial	-18.5321	-0.0001348350	-0.001839529	0.0008613189	0.0005737053
SODIUM	589.592	Radial	-29.3402	-0.06444627	-0.05323855	-0.07099885	-0.06910143
STRONTIUM	421.552	Radial	5.000460	-0.0001817790	0.0001179627	-0.0001486110	-0.0005146888
SULFUR	182.034	Axial	3.877699	-0.004044776	0.004578957	-0.007682629	-0.009030655
THALLIUM	190.856	Axial	-0.1396738	0.003249317	0.002921259	0.004495498	0.002331194
TIN	189.989	Axial	-0.03033890	0.001353560	0.004352909	-0.0008182373	0.0005260093
TITANIUM	334.941	Radial	-1.83378	0.0006156279	0.0005104001	0.0004376354	0.0008988482
VANADIUM	292.402	Radial	-2.34223	-0.001325688	0.001200338	-0.0009603036	-0.004217098
ZINC	206.200	Axial	8.721370	0.002147058	0.002836671	0.001884863	0.001719639

Sample ID: L1838014-03 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 14:00 Sequence: 170

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6807.933	6770.328	6819.141	6834.330
YTTRIUM	360.073	Axial	63689.93	63991.03	63046.83	64031.92
YTTRIUM	360.073	Radial	4872.424	4893.425	4899.782	4824.066
INDIUM	230.606	Axial	1253.011	1256.823	1247.762	1254.448

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.117298	0.01429047	0.01245044	0.01439348	0.01602748
BARIUM	233.527	Axial	4490.492	0.7060059	0.7116463	0.7032622	0.7031092
BORON	249.678	Radial	-0.9028912	-0.003487443	-0.008784837	0.0003897749	-0.002067265
CADMIUM	228.802	Axial	9.496729	0.00006514726	-0.00007026117	-0.0001687175	0.0004344205
CHROMIUM	267.716	Axial	100.5970	0.04454727	0.04429407	0.04559155	0.04375620
COBALT	228.616	Axial	34.27911	0.04045230	0.04138817	0.04097493	0.03899381
LEAD	220.353	Axial	38.74578	0.09110083	0.08806753	0.09376923	0.09146573
LITHIUM	670.784	Radial	19.07984	0.02471427	0.02294892	0.02467140	0.02652249
SELENIUM	196.090	Axial	0.6595456	0.006320318	0.01200908	0.005610255	0.001341616
SILVER	328.068	Axial	-2.88894	0.003811795	0.005949609	0.002732431	0.002753345
ALUMINUM	308.215	Radial	1585.249	27.08379	27.29192	27.05153	26.90792
ANTIMONY	206.833	Axial	1.212142	0.006206018	0.01000938	0.003187700	0.005420973
BERYLLIUM	313.042	Radial	75.35796	0.004422569	0.004400155	0.004526468	0.004341085
CALCIUM	373.690	Radial	50615.82	501.8354	503.4305	502.0819	499.9937
CERIUM	535.353	Radial	30.93794	0.1301049	0.1282787	0.1235913	0.1384448
COPPER	324.754	Axial	317.4625	0.07288126	0.07296016	0.07233797	0.07334565
IRON	271.441	Radial	1526.705	72.47704	72.62464	72.22324	72.58322
LANTHANUM	333.749	Radial	41.15479	0.08383905	0.08514290	0.08276282	0.08361145
MAGNESIUM	279.079	Radial	1677.053	19.29180	19.35243	19.26787	19.25510
MANGANESE	257.610	Axial	86297.19	3.792757	3.827093	3.770065	3.781113
MOLYBDENUM	202.030	Axial	2.915071	0.003302738	0.004134555	0.001808124	0.003965535
NICKEL	231.604	Axial	65.47429	0.07136511	0.07151327	0.07162297	0.07095908
PHOSPHORUS	177.495	Axial	460.7284	2.332149	2.334528	2.352158	2.309761
POTASSIUM	766.490	Radial	382.1978	4.127153	4.131467	4.086380	4.163613
SILICON	251.611	Axial	12128.43	11.30602	11.21399	11.33211	11.37198
SODIUM	589.592	Radial	179.4798	0.4899661	0.4772732	0.4832478	0.5093772
STRONTIUM	421.552	Radial	10599.03	0.9886449	0.9952876	0.9978979	0.9727492
SULFUR	182.034	Axial	135.3853	2.494412	2.494786	2.522863	2.465585
THALLIUM	190.856	Axial	-1.28257	-0.002925075	0.006104405	-0.006649294	-0.008230335
TIN	189.989	Axial	0.2406479	0.002020113	0.001080137	0.001076799	0.003903404
TITANIUM	334.941	Radial	175.9687	0.1047889	0.1046164	0.1049448	0.1048056
VANADIUM	292.402	Radial	68.38159	0.1126813	0.1130902	0.1093331	0.1156205
ZINC	206.200	Axial	405.9601	0.1623127	0.1635202	0.1621762	0.1612417

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838014-04 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 14:01 Sequence: 171

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6683.773	6673.428	6657.538	6720.353
YTTRIUM	360.073	Axial	61977.54	61566.49	62340.94	62025.21
YTTRIUM	360.073	Radial	4930.978	4921.001	4926.473	4945.461
INDIUM	230.606	Axial	1202.029	1196.317	1203.674	1206.095

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	3.287295	0.01061384	0.005977445	0.01366647	0.01219759
BARIUM	233.527	Axial	3684.651	0.5902965	0.5929537	0.5933362	0.5845996
BORON	249.678	Radial	2.175027	0.01078276	0.005621673	0.01037676	0.01634983
CADMIUM	228.802	Axial	12.42177	0.001467558	0.001359765	0.001735149	0.001307759
CHROMIUM	267.716	Axial	79.57007	0.03662980	0.03721951	0.03641960	0.03625030
COBALT	228.616	Axial	23.04278	0.03013586	0.02889133	0.03109832	0.03041793
LEAD	220.353	Axial	43.08384	0.1055948	0.1066294	0.1064544	0.1037008
LITHIUM	670.784	Radial	6.784074	0.01314268	0.01019650	0.01413304	0.01509851
SELENIUM	196.090	Axial	0.7416399	0.007330230	0.01093644	0.01026514	0.0007891188
SILVER	328.068	Axial	-6.17325	0.002947488	0.001378196	0.004707985	0.002756284
ALUMINUM	308.215	Radial	1125.733	19.02843	19.13587	18.97326	18.97618
ANTIMONY	206.833	Axial	0.9390448	0.004464415	0.006804072	0.007764636	-0.001175465
BERYLLIUM	313.042	Radial	59.22202	0.003393875	0.003337311	0.003473596	0.003370719
CALCIUM	373.690	Radial	100336.5	982.9732	986.7689	980.3531	981.7975
CERIUM	535.353	Radial	31.32694	0.1302164	0.1267743	0.1071827	0.1566922
COPPER	324.754	Axial	259.2452	0.06156394	0.06215659	0.06056429	0.06197094
IRON	271.441	Radial	1066.572	50.03038	50.24928	49.80364	50.03822
LANTHANUM	333.749	Radial	39.91412	0.08068178	0.07547573	0.08315943	0.08341019
MAGNESIUM	279.079	Radial	4665.811	52.97813	52.94509	53.01127	52.97802
MANGANESE	257.610	Axial	69408.35	3.107283	3.122934	3.122010	3.076905
MOLYBDENUM	202.030	Axial	2.685933	0.003045669	0.004293886	0.001009134	0.003833986
NICKEL	231.604	Axial	46.59175	0.05259566	0.05103178	0.05356904	0.05318616
PHOSPHORUS	177.495	Axial	608.7917	3.141115	3.164297	3.170511	3.088537
POTASSIUM	766.490	Radial	402.0533	4.281293	4.355687	4.274684	4.213508
SILICON	251.611	Axial	11411.69	10.93217	11.14729	10.76480	10.88442
SODIUM	589.592	Radial	322.8634	0.8584071	0.8682511	0.8509297	0.8560404
STRONTIUM	421.552	Radial	12917.54	1.190811	1.173026	1.197352	1.202055
SULFUR	182.034	Axial	239.1702	4.553553	4.645415	4.559517	4.455728
THALLIUM	190.856	Axial	-1.61049	-0.005016879	-0.001360416	-0.005005336	-0.008684886
TIN	189.989	Axial	0.2114176	0.001965839	0.0006194337	0.001342767	0.003935318
TITANIUM	334.941	Radial	164.2220	0.09676894	0.09797489	0.09659530	0.09573664
VANADIUM	292.402	Radial	47.10780	0.07751978	0.08104365	0.07541709	0.07609861
ZINC	206.200	Axial	675.4979	0.2761645	0.2722185	0.2809234	0.2753517

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838014-05 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 14:03 Sequence: 172

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6656.109	6599.949	6651.498	6716.879
YTTRIUM	360.073	Axial	61829.84	61447.46	61697.07	62344.99
YTTRIUM	360.073	Radial	4857.524	4889.457	4828.076	4855.039
INDIUM	230.606	Axial	1197.958	1186.013	1201.661	1206.199

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.786313	0.01799567	0.01241917	0.02008479	0.02148305
BARIUM	233.527	Axial	4520.569	0.7269531	0.7391427	0.7243681	0.7173483
BORON	249.678	Radial	4.274351	0.02082254	0.01322140	0.02370555	0.02554067
CADMIUM	228.802	Axial	10.14728	0.0004594681	0.001614246	-0.0009656174	0.0007297753
CHROMIUM	267.716	Axial	68.70913	0.03226638	0.03209591	0.03269316	0.03201006
COBALT	228.616	Axial	35.81506	0.04365474	0.04471638	0.04214547	0.04410236
LEAD	220.353	Axial	32.17114	0.07910932	0.07905540	0.07801685	0.08025570
LITHIUM	670.784	Radial	12.76181	0.01884291	0.01864342	0.01949160	0.01839372
SELENIUM	196.090	Axial	0.1102911	0.0005717299	0.004754604	0.001081676	-0.004121091
SILVER	328.068	Axial	-0.3465532	0.004443676	0.003354859	0.004416006	0.005560162
ALUMINUM	308.215	Radial	1195.557	20.50787	20.60046	20.49562	20.42752
ANTIMONY	206.833	Axial	0.5002627	0.001408837	0.001020597	0.002458390	0.0007475250
BERYLLIUM	313.042	Radial	58.02532	0.003374800	0.003297627	0.003391699	0.003435074
CALCIUM	373.690	Radial	101058.3	1005.014	1005.499	1006.771	1002.771
CERIUM	535.353	Radial	23.75776	0.05101290	0.01178090	0.03474543	0.1065124
COPPER	324.754	Axial	279.8666	0.06641722	0.06772624	0.06578401	0.06574141
IRON	271.441	Radial	1133.954	53.99451	54.25103	53.70411	54.02840
LANTHANUM	333.749	Radial	25.16909	0.05458355	0.05595962	0.05237372	0.05541732
MAGNESIUM	279.079	Radial	4588.779	52.89145	52.92234	52.94262	52.80939
MANGANESE	257.610	Axial	67072.03	3.015370	3.066341	3.003910	2.975857
MOLYBDENUM	202.030	Axial	4.595501	0.005820638	0.007867599	0.004707159	0.004887155
NICKEL	231.604	Axial	75.30499	0.08612846	0.08855815	0.08385757	0.08596967
PHOSPHORUS	177.495	Axial	590.9933	3.061726	3.097916	3.017539	3.069724
POTASSIUM	766.490	Radial	509.1110	5.440633	5.466133	5.434804	5.420961
SILICON	251.611	Axial	12630.30	12.12966	12.30278	12.17448	11.91173
SODIUM	589.592	Radial	249.5815	0.6769700	0.6854059	0.6603861	0.6851181
STRONTIUM	421.552	Radial	14245.40	1.333193	1.333272	1.339269	1.327039
SULFUR	182.034	Axial	260.9797	4.997107	5.053445	4.944754	4.993123
THALLIUM	190.856	Axial	-2.77006	-0.01155312	-0.01579312	-0.01237132	-0.006494913
TIN	189.989	Axial	0.1811996	0.001894846	0.002781422	0.0003607624	0.002542355
TITANIUM	334.941	Radial	150.1323	0.08992850	0.08958780	0.09025335	0.08994434
VANADIUM	292.402	Radial	39.10713	0.06572456	0.06633045	0.06350872	0.06733451
ZINC	206.200	Axial	483.1618	0.1979300	0.2007406	0.1973098	0.1957395

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838014-06 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 14:05 Sequence: 173

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7114.203	7146.915	7187.957	7007.739
YTTRIUM	360.073	Axial	67253.59	67418.16	67307.28	67035.32
YTTRIUM	360.073	Radial	5070.774	5127.022	5053.636	5031.663
INDIUM	230.606	Axial	1376.641	1377.509	1385.373	1367.042

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	8.823435	0.03502318	0.03547832	0.03273441	0.03685680
BARIUM	233.527	Axial	4298.701	0.6469206	0.6426252	0.6425717	0.6555647
BORON	249.678	Radial	-0.3342753	-0.0007643255	-0.003137481	0.005551047	-0.004706543
CADMIUM	228.802	Axial	12.39565	0.001114828	0.0007048082	0.001566470	0.001073207
CHROMIUM	267.716	Axial	135.2696	0.05622838	0.05604322	0.05687013	0.05577180
COBALT	228.616	Axial	58.94115	0.05992620	0.05903295	0.05980164	0.06094402
LEAD	220.353	Axial	67.81637	0.1451348	0.1413363	0.1462168	0.1478513
LITHIUM	670.784	Radial	16.27705	0.02149907	0.02095061	0.01982967	0.02371692
SELENIUM	196.090	Axial	1.391421	0.01335670	0.01433113	0.01527716	0.01046181
SILVER	328.068	Axial	-7.72577	0.002710800	0.003524882	0.002108399	0.002499119
ALUMINUM	308.215	Radial	2527.513	41.45289	41.51989	41.33612	41.50265
ANTIMONY	206.833	Axial	0.3445600	0.0001723182	0.00009901781	-0.0007781080	0.001196045
BERYLLIUM	313.042	Radial	85.65439	0.004847177	0.004925662	0.004734584	0.004881285
CALCIUM	373.690	Radial	6336.108	60.39199	60.28650	60.24983	60.63963
CERIUM	535.353	Radial	34.56715	0.1554317	0.1562856	0.1358539	0.1741557
COPPER	324.754	Axial	340.6582	0.07402524	0.07442963	0.07335902	0.07428706
IRON	271.441	Radial	1983.521	90.47946	90.64886	90.29568	90.49383
LANTHANUM	333.749	Radial	41.52257	0.08154781	0.07779320	0.08527680	0.08157342
MAGNESIUM	279.079	Radial	820.7667	9.089742	9.099057	9.092618	9.077550
MANGANESE	257.610	Axial	98947.38	4.161861	4.145627	4.114661	4.225294
MOLYBDENUM	202.030	Axial	6.110455	0.007423912	0.007700573	0.007423996	0.007147168
NICKEL	231.604	Axial	81.44535	0.08096836	0.08448121	0.08010794	0.07831594
PHOSPHORUS	177.495	Axial	550.0877	2.665795	2.650478	2.636979	2.709929
POTASSIUM	766.490	Radial	343.2442	3.590830	3.669687	3.603124	3.499680
SILICON	251.611	Axial	17759.46	15.68120	15.76607	15.91388	15.36364
SODIUM	589.592	Radial	235.0410	0.6123206	0.6140161	0.6045927	0.6183531
STRONTIUM	421.552	Radial	1664.612	0.1486507	0.1471740	0.1491473	0.1496308
SULFUR	182.034	Axial	161.3218	2.855823	2.825946	2.862582	2.878939
THALLIUM	190.856	Axial	-2.26298	-0.007044825	-0.001176212	-0.01365522	-0.006303044
TIN	189.989	Axial	0.5995570	0.002797838	0.004240904	0.0009638644	0.003188745
TITANIUM	334.941	Radial	415.3707	0.2354895	0.2343702	0.2357507	0.2363476
VANADIUM	292.402	Radial	112.9670	0.1773359	0.1762858	0.1777283	0.1779936
ZINC	206.200	Axial	1866.628	0.7195662	0.7114859	0.7062408	0.7409717

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838014-07 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 14:06 Sequence: 174

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6854.286	6822.071	6870.599	6870.188
YTTRIUM	360.073	Axial	63249.89	62811.06	63683.61	63255.00
YTTRIUM	360.073	Radial	4929.390	4952.851	4916.560	4918.757
INDIUM	230.606	Axial	1221.583	1212.569	1228.264	1223.914

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	9.099603	0.03786293	0.04225082	0.04063834	0.03069963
BARIUM	233.527	Axial	4629.927	0.7229563	0.7226815	0.7251475	0.7210397
BORON	249.678	Radial	0.2417522	0.001852650	0.001394342	0.002098499	0.002065109
CADMIUM	228.802	Axial	15.98849	0.002898537	0.002199718	0.003572570	0.002923322
CHROMIUM	267.716	Axial	140.7884	0.06044123	0.06049761	0.06005329	0.06077278
COBALT	228.616	Axial	45.27390	0.05267689	0.05282919	0.05230530	0.05289619
LEAD	220.353	Axial	97.60468	0.2354108	0.2379379	0.2324800	0.2358147
LITHIUM	670.784	Radial	15.11594	0.02084080	0.02062825	0.02111042	0.02078373
SELENIUM	196.090	Axial	0.8500016	0.008263820	0.01491925	0.0005642411	0.009307967
SILVER	328.068	Axial	2.335594	0.005124062	0.004518333	0.005059224	0.005794629
ALUMINUM	308.215	Radial	1847.296	31.18514	31.24114	31.06882	31.24546
ANTIMONY	206.833	Axial	1.482913	0.007977763	0.007453560	0.002448719	0.01403101
BERYLLIUM	313.042	Radial	76.55680	0.004441991	0.004530982	0.004419640	0.004375349
CALCIUM	373.690	Radial	86820.39	850.8253	854.9757	850.5617	846.9384
CERIUM	535.353	Radial	27.23735	0.08544800	0.05022913	0.08298529	0.1231296
COPPER	324.754	Axial	575.6089	0.1310283	0.1316764	0.1306195	0.1307892
IRON	271.441	Radial	1689.655	79.28503	79.44390	78.87718	79.53401
LANTHANUM	333.749	Radial	31.41659	0.06526843	0.06482481	0.06225430	0.06872619
MAGNESIUM	279.079	Radial	4459.022	50.64728	50.91321	50.48284	50.54580
MANGANESE	257.610	Axial	84656.66	3.695431	3.699486	3.705310	3.681498
MOLYBDENUM	202.030	Axial	5.178872	0.006435191	0.006027597	0.006200586	0.007077389
NICKEL	231.604	Axial	125.4162	0.1414789	0.1416880	0.1424914	0.1402572
PHOSPHORUS	177.495	Axial	711.7690	3.581747	3.571278	3.589795	3.584167
POTASSIUM	766.490	Radial	371.2757	3.971418	3.963811	3.960170	3.990274
SILICON	251.611	Axial	13589.40	12.75758	12.83668	12.67443	12.76163
SODIUM	589.592	Radial	331.4996	0.8812135	0.8823760	0.8873893	0.8738751
STRONTIUM	421.552	Radial	17045.79	1.572122	1.573224	1.575622	1.567519
SULFUR	182.034	Axial	236.4130	4.385857	4.355567	4.400108	4.401897
THALLIUM	190.856	Axial	-1.39771	-0.003704696	-0.0009327830	-0.008467003	-0.001714301
TIN	189.989	Axial	2.274760	0.007321883	0.008625035	0.007373219	0.005967396
TITANIUM	334.941	Radial	430.8275	0.2511379	0.2501032	0.2525169	0.2507937
VANADIUM	292.402	Radial	62.62896	0.1022317	0.1053500	0.09803845	0.1033067
ZINC	206.200	Axial	27931.48	11.19539	11.20536	11.24452	11.13629

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838014-08 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 14:08 Sequence: 175

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7020.757	6878.348	7053.634	7130.290
YTTRIUM	360.073	Axial	66104.63	65916.19	65814.51	66583.20
YTTRIUM	360.073	Radial	4904.074	4933.272	4939.731	4839.220
INDIUM	230.606	Axial	1338.773	1334.276	1330.004	1352.039

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	7.292048	0.02841874	0.02599614	0.03162879	0.02763130
BARIUM	233.527	Axial	4059.769	0.6191892	0.6283835	0.6158325	0.6133516
BORON	249.678	Radial	0.2684001	0.001940666	0.007735968	0.002457044	-0.004371012
CADMIUM	228.802	Axial	11.76027	0.0009234377	0.001940185	0.0005858495	0.0002442785
CHROMIUM	267.716	Axial	100.8842	0.04344518	0.04526578	0.04303028	0.04203948
COBALT	228.616	Axial	39.67629	0.04332891	0.04479757	0.04329594	0.04189323
LEAD	220.353	Axial	63.13893	0.1389397	0.1397432	0.1379567	0.1391190
LITHIUM	670.784	Radial	9.998414	0.01617657	0.01409229	0.01620268	0.01823474
SELENIUM	196.090	Axial	1.409543	0.01369909	0.008731964	0.01577739	0.01658792
SILVER	328.068	Axial	-8.22406	0.002561489	0.002324957	0.003170212	0.002189299
ALUMINUM	308.215	Radial	1503.572	25.53120	25.19647	25.34717	26.04994
ANTIMONY	206.833	Axial	1.650061	0.008733136	-0.003500239	0.01733147	0.01236818
BERYLLIUM	313.042	Radial	75.84429	0.004423238	0.004468306	0.004318185	0.004483223
CALCIUM	373.690	Radial	19313.25	190.2973	188.3588	188.1123	194.4207
CERIUM	535.353	Radial	30.49017	0.1228272	0.09115576	0.1613504	0.1159755
COPPER	324.754	Axial	2018.179	0.4337295	0.4289508	0.4373524	0.4348852
IRON	271.441	Radial	1519.671	71.68567	70.82187	71.19954	73.03560
LANTHANUM	333.749	Radial	29.51360	0.06205905	0.06225706	0.06587700	0.05804308
MAGNESIUM	279.079	Radial	616.7377	7.070566	7.002164	7.014997	7.194536
MANGANESE	257.610	Axial	82405.82	3.512376	3.555299	3.500174	3.481655
MOLYBDENUM	202.030	Axial	2.346349	0.002394212	0.001524635	0.003315100	0.002342899
NICKEL	231.604	Axial	80.57465	0.08241277	0.08460782	0.08363743	0.07899308
PHOSPHORUS	177.495	Axial	429.9992	2.110351	2.140212	2.104077	2.086766
POTASSIUM	766.490	Radial	235.5563	2.612143	2.648365	2.544195	2.643868
SILICON	251.611	Axial	10604.58	9.522875	9.578285	9.508691	9.481650
SODIUM	589.592	Radial	262.9008	0.7057933	0.6866862	0.7088866	0.7218072
STRONTIUM	421.552	Radial	2850.884	0.2637720	0.2601489	0.2621991	0.2689681
SULFUR	182.034	Axial	99.94923	1.762951	1.799638	1.735133	1.754082
THALLIUM	190.856	Axial	-2.44348	-0.008251856	-0.008352771	-0.004586672	-0.01181613
TIN	189.989	Axial	1.422620	0.004791516	0.004391561	0.006804374	0.003178613
TITANIUM	334.941	Radial	285.8524	0.1680805	0.1674238	0.1662250	0.1705928
VANADIUM	292.402	Radial	85.14984	0.1388061	0.1338541	0.1390779	0.1434864
ZINC	206.200	Axial	1388.490	0.5419484	0.5482757	0.5425677	0.5350017

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838014-09 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 14:10 Sequence: 176

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7085.503	7091.773	7121.285	7043.449
YTTRIUM	360.073	Axial	67286.33	67604.84	67390.16	66863.98
YTTRIUM	360.073	Radial	4981.825	5011.638	4941.537	4992.300
INDIUM	230.606	Axial	1383.389	1382.212	1384.351	1383.603

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	6.068306	0.02248858	0.02551401	0.02316874	0.01878301
BARIUM	233.527	Axial	5207.216	0.7864497	0.7847842	0.7867898	0.7877751
BORON	249.678	Radial	-1.67260	-0.006898287	-0.01176705	-0.001485545	-0.007442270
CADMIUM	228.802	Axial	11.20651	0.0006283985	0.00004978557	0.001422711	0.0004126987
CHROMIUM	267.716	Axial	98.74573	0.04223309	0.04090271	0.04237810	0.04341844
COBALT	228.616	Axial	24.20859	0.02803474	0.02880207	0.02785147	0.02745068
LEAD	220.353	Axial	50.48638	0.1075131	0.1074803	0.1061395	0.1089193
LITHIUM	670.784	Radial	10.86447	0.01679935	0.01628290	0.01354165	0.02057349
SELENIUM	196.090	Axial	-0.02470072	-0.0009255831	0.01066917	0.0009727496	-0.01441866
SILVER	328.068	Axial	-9.46026	0.002305292	0.001589579	0.002253526	0.003072770
ALUMINUM	308.215	Radial	2028.186	33.87169	34.02399	33.86255	33.72851
ANTIMONY	206.833	Axial	0.7638790	0.002938729	0.004815491	-0.001355287	0.005355982
BERYLLIUM	313.042	Radial	92.56642	0.005351369	0.005321745	0.005604417	0.005127944
CALCIUM	317.933	Radial	7001.511	33.80832	33.86117	33.95157	33.61222
CERIUM	535.353	Radial	29.35841	0.1051753	0.08854198	0.06087182	0.1661120
COPPER	324.754	Axial	321.5549	0.06997836	0.06986924	0.07071322	0.06935261
IRON	271.441	Radial	1419.245	65.89515	66.22001	66.03112	65.43432
LANTHANUM	333.749	Radial	36.85485	0.07445164	0.07228805	0.07530191	0.07576496
MAGNESIUM	279.079	Radial	544.1932	6.145120	6.171984	6.152316	6.111061
MANGANESE	257.610	Axial	52858.59	2.232361	2.232825	2.223952	2.240306
MOLYBDENUM	202.030	Axial	3.570588	0.004031222	0.005602010	0.001771994	0.004719663
NICKEL	231.604	Axial	92.18733	0.09137215	0.09188740	0.08931474	0.09291431
PHOSPHORUS	177.495	Axial	427.1955	2.077053	2.068449	2.070196	2.092513
POTASSIUM	766.490	Radial	244.6615	2.665722	2.650286	2.689245	2.657635
SILICON	251.611	Axial	14309.70	12.62796	12.38850	12.76452	12.73086
SODIUM	589.592	Radial	147.7016	0.3973718	0.4068610	0.3973513	0.3879030
STRONTIUM	421.552	Radial	1361.318	0.1236183	0.1238178	0.1237586	0.1232785
SULFUR	182.034	Axial	89.08997	1.547377	1.533954	1.526699	1.581479
THALLIUM	190.856	Axial	-1.84671	-0.004994336	-0.003485106	-0.0006787681	-0.01081913
TIN	189.989	Axial	-0.4763840	0.0003212241	0.003563385	-0.0007590361	-0.001840677
TITANIUM	334.941	Radial	334.8041	0.1935096	0.1938402	0.1942486	0.1924400
VANADIUM	292.402	Radial	80.17292	0.1288081	0.1321861	0.1282720	0.1259663
ZINC	206.200	Axial	554.4999	0.2134946	0.2151091	0.2119381	0.2134366

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838014-10 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 14:11 Sequence: 177

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6961.471	6927.500	7056.326	6900.587
YTTRIUM	360.073	Axial	65584.65	65209.21	66148.13	65396.62
YTTRIUM	360.073	Radial	4938.189	4927.064	4963.263	4924.240
INDIUM	230.606	Axial	1324.898	1318.359	1339.347	1316.988

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	7.512201	0.02978159	0.02950317	0.02626104	0.03358057
BARIUM	233.527	Axial	5088.027	0.7821835	0.7832795	0.7767875	0.7864834
BORON	249.678	Radial	-0.9126713	-0.003468787	0.003576779	-0.008760506	-0.005222635
CADMIUM	228.802	Axial	10.96897	0.0006124950	0.001114694	0.0004627550	0.0002600356
CHROMIUM	267.716	Axial	110.9863	0.04775430	0.04687256	0.04919906	0.04719129
COBALT	228.616	Axial	32.38040	0.03677413	0.03575651	0.03734107	0.03722481
LEAD	220.353	Axial	59.10306	0.1314099	0.1277992	0.1337208	0.1327098
LITHIUM	670.784	Radial	10.61720	0.01667225	0.01791556	0.01556399	0.01653722
SELENIUM	196.090	Axial	0.5281983	0.004770680	0.001886617	0.008823437	0.003601986
SILVER	328.068	Axial	-11.6880	0.001704140	0.002406942	0.001944882	0.0007605959
ALUMINUM	308.215	Radial	1717.805	28.95291	28.90104	29.05583	28.90184
ANTIMONY	206.833	Axial	0.5683232	0.001730514	0.005297091	-0.001735863	0.001630315
BERYLLIUM	313.042	Radial	76.33597	0.004420783	0.004433104	0.004366320	0.004462925
CALCIUM	373.690	Radial	18649.75	182.4658	182.6471	182.2242	182.5262
CERIUM	535.353	Radial	29.80613	0.1129625	0.1389565	0.1426847	0.05724629
COPPER	324.754	Axial	284.8653	0.06383266	0.06412367	0.06298727	0.06438705
IRON	271.441	Radial	1661.834	77.84037	77.90697	78.05913	77.55500
LANTHANUM	333.749	Radial	33.29419	0.06856883	0.06604379	0.07004825	0.06961446
MAGNESIUM	279.079	Radial	828.9360	9.425473	9.458003	9.447450	9.370966
MANGANESE	257.610	Axial	101272.3	4.352822	4.354792	4.315652	4.388022
MOLYBDENUM	202.030	Axial	5.662405	0.007004433	0.008551139	0.004782528	0.007679633
NICKEL	231.604	Axial	81.74073	0.08450064	0.08343702	0.08392518	0.08613971
PHOSPHORUS	177.495	Axial	580.2049	2.873666	2.897661	2.853323	2.870012
POTASSIUM	766.490	Radial	341.3808	3.663191	3.608681	3.629275	3.751618
SILICON	251.611	Axial	11335.06	10.26024	10.31266	10.25414	10.21392
SODIUM	589.592	Radial	200.9275	0.5394609	0.5401727	0.5332156	0.5449946
STRONTIUM	421.552	Radial	5472.046	0.5033475	0.5080292	0.4969269	0.5050863
SULFUR	182.034	Axial	112.4809	2.011584	2.028129	1.992242	2.014380
THALLIUM	190.856	Axial	-1.79427	-0.005165670	-0.008668743	0.002552918	-0.009381186
TIN	189.989	Axial	0.8327408	0.003399400	0.002701367	0.004525047	0.002971786
TITANIUM	334.941	Radial	316.2353	0.1844744	0.1839239	0.1835359	0.1859635
VANADIUM	292.402	Radial	89.73944	0.1451163	0.1424783	0.1489321	0.1439383
ZINC	206.200	Axial	579.6227	0.2272503	0.2280521	0.2256767	0.2280222

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838014-11 DF: 1x Batch: WG2473543 Units: mg/kg
Analyzed: 03/21/25 14:13 Sequence: 178

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6943.577	6846.775	6980.192	7003.764
YTTRIUM	360.073	Axial	64503.76	63637.20	64765.79	65108.30
YTTRIUM	360.073	Radial	4933.628	4971.499	4918.851	4910.534
INDIUM	230.606	Axial	1275.239	1262.432	1282.658	1280.629

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	10.64017	0.04451875	0.04323164	0.04561260	0.04471201
BARIUM	233.527	Axial	5985.236	0.9222054	0.9242026	0.9191476	0.9232659
BORON	249.678	Radial	0.7207955	0.004068278	0.003459438	0.002321531	0.006423864
CADMIUM	228.802	Axial	13.22938	0.001606301	0.001371072	0.001359487	0.002088345
CHROMIUM	267.716	Axial	160.1585	0.06740348	0.06720050	0.06715637	0.06785357
COBALT	228.616	Axial	39.38696	0.04490379	0.04630316	0.04407145	0.04433677
LEAD	220.353	Axial	61.90459	0.1430268	0.1462504	0.1449511	0.1378789
LITHIUM	670.784	Radial	18.92784	0.02434319	0.02467212	0.02407335	0.02428409
SELENIUM	196.090	Axial	0.09255599	0.0003041830	-0.0002560613	-0.003998355	0.005166965
SILVER	328.068	Axial	-5.28663	0.003250082	0.005549957	0.001926378	0.002273911
ALUMINUM	308.215	Radial	2708.148	45.64253	45.67353	45.38851	45.86553
ANTIMONY	206.833	Axial	1.359971	0.007031457	0.007976517	0.006145654	0.006972200
BERYLLIUM	313.042	Radial	88.11942	0.005135832	0.005212975	0.005074315	0.005120204
CALCIUM	373.690	Radial	42463.45	415.7967	416.1657	415.2106	416.0137
CERIUM	535.353	Radial	31.59384	0.1327557	0.1909724	0.1419604	0.06533421
COPPER	324.754	Axial	393.7513	0.08870741	0.08958457	0.08791290	0.08862475
IRON	271.441	Radial	2400.547	112.5473	112.8058	112.3240	112.5123
LANTHANUM	333.749	Radial	45.58728	0.09095442	0.08958353	0.09193471	0.09134502
MAGNESIUM	279.079	Radial	1908.615	21.67942	21.63555	21.74989	21.65283
MANGANESE	257.610	Axial	109759.2	4.729642	4.759917	4.734176	4.694832
MOLYBDENUM	202.030	Axial	4.934439	0.006015678	0.007549738	0.004343711	0.006153585
NICKEL	231.604	Axial	109.1551	0.1177310	0.1166113	0.1190230	0.1175586
PHOSPHORUS	177.495	Axial	733.5563	3.644633	3.724610	3.629771	3.579518
POTASSIUM	766.490	Radial	461.8406	4.882774	4.890812	4.829298	4.928212
SILICON	251.611	Axial	16718.81	15.39231	15.40529	15.55004	15.22160
SODIUM	589.592	Radial	273.1116	0.7281297	0.7484554	0.6883888	0.7475447
STRONTIUM	421.552	Radial	11368.38	1.047389	1.044319	1.047095	1.050754
SULFUR	182.034	Axial	174.0991	3.166355	3.184704	3.197936	3.116425
THALLIUM	190.856	Axial	-1.30947	-0.002928194	-0.001934113	-0.005949365	-0.0009011036
TIN	189.989	Axial	0.1663532	0.001827684	0.002273587	0.002292185	0.0009172795
TITANIUM	334.941	Radial	490.6556	0.2855318	0.2838022	0.2872670	0.2855261
VANADIUM	292.402	Radial	112.6475	0.1816800	0.1814745	0.1826929	0.1808727
ZINC	206.200	Axial	850.8860	0.3352355	0.3443014	0.3307583	0.3306470

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 14:15 Sequence: 179 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6576.524	6621.981	6544.942	6562.651
YTTRIUM	360.073	Axial	61935.38	62384.78	61274.01	62147.34
YTTRIUM	360.073	Radial	4644.231	4679.060	4620.363	4633.271
INDIUM	230.606	Axial	1287.737	1293.612	1282.420	1287.178

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	548.0089	9.872390	9.887855	9.899478	9.829836
ANTIMONY	206.833	Axial	71.57069	0.5043932	0.5071802	0.4943041	0.5116954
ARSENIC	189.042	Axial	201.8957	0.9951356	0.9861870	1.000178	0.9990416
BARIUM	233.527	Axial	3143.065	0.5119145	0.5101856	0.5105625	0.5149953
BERYLLIUM	313.042	Radial	3155.819	0.2021638	0.2022474	0.2028637	0.2013802
BORON	249.678	Radial	205.0909	1.007778	1.002125	1.011294	1.009914
CADMIUM	228.802	Axial	1087.796	0.4958484	0.4942664	0.4954574	0.4978213
CALCIUM	373.690	Radial	5010.271	52.14494	52.02675	52.32207	52.08599
CHROMIUM	267.716	Axial	2359.125	0.9929819	0.9919291	0.9883305	0.9986862
COBALT	228.616	Axial	1002.864	0.9869878	0.9815746	0.9837645	0.9956242
COPPER	324.754	Axial	4469.765	1.021897	1.016854	1.020551	1.028287
IRON	259.940	Radial	2599.330	10.60994	10.62737	10.81438	10.38807
LEAD	220.353	Axial	216.5646	0.4954835	0.4944860	0.4931606	0.4988038
LITHIUM	670.784	Radial	1035.382	1.021435	1.021627	1.018187	1.024490
MAGNESIUM	279.079	Radial	857.8640	10.36877	10.32076	10.41078	10.37477
MANGANESE	257.610	Axial	22246.14	1.012557	1.010798	1.005986	1.020886
MOLYBDENUM	202.030	Axial	172.7251	0.2507120	0.2462528	0.2526085	0.2532747
NICKEL	231.604	Axial	898.6050	0.9692130	0.9647489	0.9644762	0.9784138
PHOSPHORUS	177.495	Axial	189.1189	0.9874789	0.9721291	0.9848817	1.005426
POTASSIUM	766.490	Radial	4727.200	50.93382	50.57414	50.94900	51.27831
SELENIUM	196.090	Axial	91.70374	0.9990789	0.9807492	0.9953571	1.021130
SILICON	251.611	Axial	2093.563	1.998694	2.005056	1.997006	1.994019
SILVER	328.068	Axial	1992.337	0.5160791	0.5089815	0.5221048	0.5171511
SODIUM	818.326	Radial	429.2334	49.04170	48.75430	49.35917	49.01162
STRONTIUM	421.552	Radial	10374.17	1.015276	1.028685	1.018708	0.9984346
SULFUR	182.034	Axial	244.8373	4.740559	4.723372	4.747102	4.751204
THALLIUM	190.856	Axial	197.6320	1.029925	1.034723	1.029132	1.025920
TIN	189.989	Axial	199.2305	0.4920867	0.4921116	0.4896485	0.4944999
TITANIUM	334.941	Radial	1644.608	1.012256	1.011573	1.017883	1.007310
VANADIUM	292.402	Radial	597.4115	1.011624	1.008536	1.019905	1.006431
ZINC	206.200	Axial	2451.409	1.022701	1.010986	1.022693	1.034423
CERIUM	535.353	Radial	17.04311	-0.01545150	0.03394381	-0.02430766	-0.05599065
LANTHANUM	333.749	Radial	-5.65469	-0.002740504	-0.0005020903	-0.002479709	-0.005239714

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 14:16 Sequence: 180

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6452.041	6351.595	6479.287	6525.240
YTTRIUM	360.073	Axial	62619.30	61957.15	62605.17	63295.59
YTTRIUM	360.073	Radial	4697.573	4688.575	4701.903	4702.241
INDIUM	230.606	Axial	1363.877	1349.263	1366.824	1375.544

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.18515	0.003576236	-0.005956057	-0.002498360	0.01918313
ANTIMONY	206.833	Axial	0.9826529	0.005084432	0.01424857	0.006854349	-0.005849622
ARSENIC	189.042	Axial	1.224023	0.0007633588	-0.0005171709	0.003326061	-0.0005188137
BARIUM	233.527	Axial	-6.11457	0.0003410128	0.00008178422	0.00008239495	0.0008588593
BERYLLIUM	313.042	Radial	2.938149	0.000003710663	-0.000002821262	0.00009702003	-0.00008306678
BORON	249.678	Radial	-0.1144583	0.0001688894	-0.008947988	0.006986381	0.002468276
CADMIUM	228.802	Axial	8.853524	0.0000006997638	0.0005723671	-0.0005970826	0.00002681488
CALCIUM	317.933	Radial	13.34621	0.006921187	-0.0005209859	0.005801448	0.01548310
CERIUM	535.353	Radial	12.91211	-0.06525530	-0.08663096	-0.04489083	-0.06424411
CHROMIUM	267.716	Axial	0.6478307	0.004025748	-0.0006083053	-0.0002827740	0.01296832
COBALT	228.616	Axial	-7.18349	-0.0006344727	0.001419071	-0.002664260	-0.0006582290
COPPER	324.754	Axial	-7.89641	0.0006957855	0.001510525	-0.0002663328	0.0008431647
IRON	259.940	Radial	2.496952	0.004806637	0.007606887	0.001923742	0.004889283
LANTHANUM	333.749	Radial	-1.34676	0.005603494	0.003290197	0.007994113	0.005526173
LEAD	220.353	Axial	0.6858899	0.001476708	0.001722019	0.004294145	-0.001586039
LITHIUM	670.784	Radial	-4.92062	0.002111685	-0.004848935	0.004763265	0.006420725
MAGNESIUM	279.079	Radial	-2.82713	-0.0007613680	-0.02380519	0.01284087	0.008680218
MANGANESE	257.610	Axial	-8.59589	0.0002309325	0.0002303963	0.0001605074	0.0003018939
MOLYBDENUM	202.030	Axial	1.833668	0.001918575	0.001545303	0.001694480	0.002515943
NICKEL	231.604	Axial	0.6166689	-0.0006782800	0.0003292439	-0.002709878	0.0003457936
PHOSPHORUS	177.495	Axial	1.187746	0.0002181625	0.001164811	-0.0006550979	0.0001447748
POTASSIUM	766.490	Radial	-25.1545	-0.04810358	-0.09021717	-0.08878525	0.03469168
SELENIUM	196.090	Axial	0.4048729	0.003864727	0.003589915	0.008430192	-0.0004259252
SILICON	251.611	Axial	19.16293	0.008255889	0.007565676	0.007109408	0.01009258
SILVER	328.068	Axial	-13.1962	0.001183280	0.0007699784	0.0009145452	0.001865317
SODIUM	589.592	Radial	-36.2432	-0.08338332	-0.08372054	-0.09165824	-0.07477118
STRONTIUM	421.552	Radial	7.167871	0.00002731759	0.0001152408	0.0002051800	-0.0002384680
SULFUR	182.034	Axial	3.109716	-0.01876770	-0.01956526	-0.01793642	-0.01880143
THALLIUM	190.856	Axial	-0.6350476	0.0008028852	-0.002108935	0.002749144	0.001768446
TIN	189.989	Axial	-0.3367233	0.0006226236	0.0002429263	-0.001263375	0.002888320
TITANIUM	334.941	Radial	-2.09997	0.0004548163	0.001030041	0.0002242547	0.0001101538
VANADIUM	292.402	Radial	-1.78451	-0.0004016981	-0.0007814496	0.0002405205	-0.0006641653
ZINC	206.200	Axial	4.856221	0.0005294139	0.0002392070	0.0006600588	0.0006889758

Sample ID: CCVLL Units: mg/l
Analyzed: 03/21/25 15:39 Sequence: 227 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	3728.745	1353.364	2464.286	7368.586
YTTRIUM	360.073	Axial	39456.70	13890.09	24491.41	79988.60
YTTRIUM	360.073	Radial	13335.91	13886.37	13954.14	12167.22
INDIUM	230.606	Axial	976.9508	360.8201	610.7911	1959.241

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.34389	0.04538487	0.03110345	0.03431951	0.07073163
ANTIMONY	206.833	Axial	-0.1356634	-0.004268520	-0.004024663	-0.005673553	-0.003107343
ARSENIC	189.042	Axial	0.7218146	0.006642061	0.02749843	-0.005829955	-0.001742293
BARIUM	233.527	Axial	-5.10856	-0.0007569466	-0.001966635	-0.0007551571	0.0004509521
BERYLLIUM	313.042	Radial	1.350395	-0.0001458194	-0.0002264750	-0.0002151543	0.000004170997
BORON	249.678	Radial	2.319895	0.005232812	-0.002027902	0.0002912496	0.01743509
CADMIUM	228.802	Axial	8.101982	0.006274181	0.01575312	0.003445494	-0.0003760743
CALCIUM	317.933	Radial	56.01071	0.04219186	0.002970825	0.02362221	0.09998255
CHROMIUM	267.716	Axial	-7.38531	-0.003689649	-0.007543997	-0.003589292	0.00006434230
COBALT	228.616	Axial	-6.47246	-0.007394036	-0.01595362	-0.008201769	0.001973280
COPPER	324.754	Axial	-14.6993	-0.006628074	-0.01587108	-0.003810682	-0.0002024620
IRON	259.940	Radial	7.046410	0.005162552	-0.001691831	0.002386244	0.01479324
LEAD	220.353	Axial	0.3512731	0.004000752	0.008742351	0.004800551	-0.001540647
LITHIUM	670.784	Radial	-4.24881	0.005481448	0.006362072	0.003602583	0.006479689
MAGNESIUM	279.079	Radial	7.003280	0.06463453	0.02942321	0.04667828	0.1178021
MANGANESE	257.610	Axial	-13.5628	-0.001073734	-0.002268757	-0.001011373	0.00005892793
MOLYBDENUM	202.030	Axial	1.481370	0.004960673	0.01184882	0.0009721964	0.002061000
NICKEL	231.604	Axial	1.710447	0.002007192	0.004591627	0.0008594858	0.0005704623
PHOSPHORUS	177.495	Axial	0.9996880	0.006383737	0.01480177	0.003515516	0.0008339257
POTASSIUM	766.490	Radial	-14.4626	0.1682519	0.1289626	0.1265614	0.2492318
SELENIUM	196.090	Axial	0.2955704	0.006247423	-0.004963797	0.02275115	0.0009549185
SILICON	251.611	Axial	12.86845	0.01277936	0.01212682	0.02063533	0.005575936
SILVER	328.068	Axial	-17.9070	-0.007427886	-0.01552733	-0.007911579	0.001155252
SODIUM	589.592	Radial	-3.89778	0.01458921	-0.01728169	-0.009768781	0.07081809
STRONTIUM	421.552	Radial	19.31017	0.00001596756	-0.0003601006	-0.0001632234	0.0005712267
SULFUR	182.034	Axial	6.565147	0.2720116	0.4911758	0.2886865	0.03617260
THALLIUM	190.856	Axial	-0.6517707	-0.001426825	-0.01187402	0.009007422	-0.001413878
TIN	189.989	Axial	-0.3608662	-0.0002237568	-0.003969137	0.003206669	0.00009119772
TITANIUM	334.941	Radial	5.331553	0.002989095	0.001321188	0.001944628	0.005701468
VANADIUM	292.402	Radial	-0.7834071	0.002187845	0.0004487230	0.002289856	0.003824957
ZINC	206.200	Axial	1.074389	-0.0005586064	0.0005657787	-0.001513305	-0.0007282935
CERIUM	535.353	Radial	8.957381	-0.1767847	-0.1879362	-0.1906299	-0.1517880
LANTHANUM	333.749	Radial	-0.3156891	0.007970382	0.008038822	0.007714512	0.008157813

Sample ID: CCVLL Units: mg/l
Analyzed: 03/21/25 15:43 Sequence: 228 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6501.370	6421.091	6468.281	6614.739
YTTRIUM	360.073	Axial	62842.21	61911.67	62400.01	64214.95
YTTRIUM	360.073	Radial	4762.200	4785.570	4807.691	4693.339
INDIUM	230.606	Axial	1344.844	1325.776	1335.416	1373.339

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.239714	0.2210680	0.2153973	0.2377298	0.2100769
ANTIMONY	206.833	Axial	2.100037	0.01285389	0.001803222	0.01555860	0.02119984
ARSENIC	189.042	Axial	3.134650	0.01033627	0.01601855	0.007700219	0.007290026
BARIUM	233.527	Axial	25.10063	0.005483050	0.005821738	0.005335711	0.005291701
BERYLLIUM	313.042	Radial	34.65639	0.001985551	0.001958082	0.001880108	0.002118463
BORON	249.678	Radial	41.72240	0.2005224	0.2010951	0.1998588	0.2006133
CADMIUM	228.802	Axial	13.12384	0.001955071	0.001973499	0.002470387	0.001421327
CALCIUM	317.933	Radial	223.7555	1.070856	1.058676	1.071752	1.082139
CHROMIUM	267.716	Axial	14.22336	0.009837807	0.01140138	0.008347619	0.009764427
COBALT	228.616	Axial	2.033600	0.007897482	0.007789168	0.008193688	0.007709589
COPPER	324.754	Axial	44.02277	0.01237227	0.01216606	0.01284850	0.01210224
IRON	259.940	Radial	28.87448	0.1097064	0.1061257	0.1141278	0.1088658
LEAD	220.353	Axial	2.362891	0.005150626	0.003366898	0.005951427	0.006133553
LITHIUM	670.784	Radial	12.71756	0.01899758	0.01679054	0.02586235	0.01433986
MAGNESIUM	279.079	Radial	87.88157	1.065564	1.042340	1.077958	1.076393
MANGANESE	257.610	Axial	202.9202	0.009966827	0.009885224	0.01008506	0.009930200
MOLYBDENUM	202.030	Axial	4.467404	0.005777753	0.005943838	0.005128508	0.006260914
NICKEL	231.604	Axial	10.12776	0.009172772	0.009407435	0.009754068	0.008356812
PHOSPHORUS	177.495	Axial	20.38180	0.1022028	0.1045519	0.1034728	0.09858377
POTASSIUM	766.490	Radial	78.02686	1.034917	1.071871	1.025370	1.007509
SELENIUM	196.090	Axial	-0.07350830	-0.001430389	0.003952382	-0.005545295	-0.002698253
SILICON	251.611	Axial	221.7295	0.1997839	0.2033640	0.1993136	0.1966740
SILVER	328.068	Axial	7.338866	0.006398924	0.005883596	0.007447718	0.005865459
SODIUM	589.592	Radial	356.2619	0.9785369	0.9934971	0.9620700	0.9800437
STRONTIUM	421.552	Radial	111.7303	0.01000388	0.009914616	0.01013342	0.009963620
SULFUR	182.034	Axial	52.83314	0.9712976	0.9810224	0.9570071	0.9758634
THALLIUM	190.856	Axial	1.690226	0.01232728	0.01163050	0.01265671	0.01269464
TIN	189.989	Axial	20.48142	0.04973523	0.05253569	0.04858258	0.04808742
TITANIUM	334.941	Radial	80.75064	0.05011256	0.05011367	0.05072909	0.04949492
VANADIUM	292.402	Radial	10.07101	0.01916895	0.01398570	0.02310893	0.02041222
ZINC	206.200	Axial	136.9361	0.05634900	0.05676264	0.05739562	0.05488874
CERIUM	535.353	Radial	9.281098	-0.1089273	-0.06733120	-0.1029316	-0.1565192
LANTHANUM	333.749	Radial	-2.22275	0.004013732	0.002093296	0.002933966	0.007013935

Sample ID: CCVLL Units: mg/l
Analyzed: 03/21/25 15:52 Sequence: 229 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6619.985	6630.118	6560.159	6669.679
YTTRIUM	360.073	Axial	64053.04	64062.56	63083.49	65013.08
YTTRIUM	360.073	Radial	4790.708	4827.417	4774.050	4770.657
INDIUM	230.606	Axial	1373.504	1374.408	1354.821	1391.284

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	6.882639	0.1967607	0.2055059	0.1998122	0.1849639
ANTIMONY	206.833	Axial	1.313349	0.007136620	0.006228387	0.006281876	0.008899598
ARSENIC	189.042	Axial	3.628505	0.01241518	0.01318474	0.005935656	0.01812514
BARIUM	233.527	Axial	25.21634	0.005425338	0.005443694	0.005377728	0.005454592
BERYLLIUM	313.042	Radial	33.59588	0.001905635	0.001926399	0.001894708	0.001895798
BORON	249.678	Radial	42.98051	0.2053369	0.2011317	0.2066345	0.2082443
CADMIUM	228.802	Axial	12.49715	0.001559242	0.0009263674	0.002462048	0.001289312
CALCIUM	317.933	Radial	224.7843	1.069250	1.061812	1.072982	1.072955
CHROMIUM	267.716	Axial	17.39132	0.01104435	0.01071710	0.01104710	0.01136885
COBALT	228.616	Axial	3.096448	0.008823406	0.008070046	0.008316797	0.01008338
COPPER	324.754	Axial	47.24768	0.01288792	0.01243278	0.01247334	0.01375764
IRON	259.940	Radial	29.43394	0.1112398	0.1135822	0.1118605	0.1082768
LEAD	220.353	Axial	2.452148	0.005269866	0.005020358	0.007904489	0.002884751
LITHIUM	670.784	Radial	13.29978	0.01950312	0.02364773	0.01752021	0.01734142
MAGNESIUM	279.079	Radial	88.61903	1.067900	1.089083	1.059783	1.054835
MANGANESE	257.610	Axial	203.2159	0.009812527	0.009937181	0.009716542	0.009783859
MOLYBDENUM	202.030	Axial	4.349010	0.005492547	0.006099519	0.005404138	0.004973985
NICKEL	231.604	Axial	10.55025	0.009372704	0.007790113	0.009980457	0.01034754
PHOSPHORUS	177.495	Axial	20.52815	0.1009768	0.1013806	0.09790687	0.1036430
POTASSIUM	766.490	Radial	73.68823	0.9850865	0.9911582	0.9359502	1.028151
SELENIUM	196.090	Axial	0.7670294	0.007672601	0.01439732	0.006766504	0.001853979
SILICON	251.611	Axial	224.0106	0.1979029	0.2003998	0.1972231	0.1960859
SILVER	328.068	Axial	7.631351	0.006428095	0.008300513	0.005054215	0.005929556
SODIUM	589.592	Radial	359.4742	0.9813940	0.9833824	0.9786506	0.9821491
STRONTIUM	421.552	Radial	111.0100	0.009872640	0.009816131	0.01007808	0.009723707
SULFUR	182.034	Axial	53.77219	0.9708338	0.9711266	0.9728893	0.9684854
THALLIUM	190.856	Axial	0.6516377	0.007109566	0.006768853	0.008127741	0.006432104
TIN	189.989	Axial	20.17216	0.04800708	0.04866538	0.04951134	0.04584452
TITANIUM	334.941	Radial	83.14711	0.05125513	0.05170496	0.05179677	0.05026364
VANADIUM	292.402	Radial	11.19230	0.02090484	0.02068682	0.02217943	0.01984826
ZINC	206.200	Axial	139.9546	0.05655446	0.05664590	0.05679570	0.05622178
CERIUM	535.353	Radial	9.795943	-0.1034767	-0.08623175	-0.1148183	-0.1093800
LANTHANUM	333.749	Radial	-0.8667922	0.006555177	0.006126065	0.005017412	0.008522055

Sample ID: ICSA Units: mg/l
Analyzed: 03/21/25 15:58 Sequence: 230 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6263.585	6338.556	6230.390	6221.807
YTTRIUM	360.073	Axial	58070.77	58834.76	57900.88	57476.67
YTTRIUM	360.073	Radial	4626.123	4689.033	4592.504	4596.832
INDIUM	230.606	Axial	1149.232	1151.966	1149.952	1145.777

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28462.97	510.7923	512.5038	510.0819	509.7912
ANTIMONY	206.833	Axial	1.039059	0.005589612	0.01250559	0.0008498014	0.003413444
ARSENIC	189.042	Axial	3.126807	0.01085256	0.01108085	0.01392018	0.007556644
BARIUM	233.527	Axial	5.064042	0.002219882	0.002228717	0.002465814	0.001965114
BERYLLIUM	313.042	Radial	13.11778	0.0006624589	0.0005711303	0.0006775514	0.0007386951
BORON	249.678	Radial	-7.42404	-0.03585051	-0.03771394	-0.03701354	-0.03282406
CADMIUM	228.802	Axial	5.112589	-0.001678091	-0.002602814	-0.001161290	-0.001270168
CALCIUM	373.690	Radial	49449.92	516.3820	517.1544	516.1507	515.8408
CERIUM	535.353	Radial	13.28826	-0.05867328	-0.03625909	-0.06374383	-0.07601693
CHROMIUM	267.716	Axial	-16.5022	-0.003467799	-0.002892243	-0.003891301	-0.003619852
COBALT	228.616	Axial	-5.71927	-0.0002812261	0.002042771	-0.0007227482	-0.002163700
COPPER	324.754	Axial	44.15034	0.01321457	0.01314940	0.01331130	0.01318301
IRON	271.441	Radial	4070.312	203.5232	203.4157	203.5324	203.6214
LANTHANUM	333.749	Radial	-2.46675	0.003394770	0.003865216	0.005637251	0.0006818437
LEAD	220.353	Axial	1.029349	0.002625142	0.003756167	0.001994467	0.002124792
LITHIUM	670.784	Radial	-5.89672	0.001072101	0.003076957	0.003913093	-0.003773747
MAGNESIUM	279.079	Radial	43618.26	527.6024	528.3163	526.8279	527.6630
MANGANESE	257.610	Axial	-168.301	-0.007410586	-0.007062609	-0.007538031	-0.007631117
MOLYBDENUM	202.030	Axial	2.407692	0.002875937	0.004068170	-0.0002849330	0.004844574
NICKEL	231.604	Axial	2.197476	0.001347976	0.002280565	0.001730773	0.00003258926
PHOSPHORUS	177.495	Axial	1.582071	0.002587286	0.001085997	0.003339925	0.003335936
POTASSIUM	766.490	Radial	-21.7256	-0.01520476	-0.02419299	-0.05482934	0.03340805
SELENIUM	196.090	Axial	-1.21960	-0.01461459	-0.01263661	-0.01301942	-0.01818772
SILICON	251.611	Axial	13.29086	0.003685884	0.003077558	0.003464148	0.004515947
SILVER	328.068	Axial	2.249950	0.005154903	0.005086450	0.005105405	0.005272855
SODIUM	589.592	Radial	-30.2098	-0.06810630	-0.07239234	-0.06890724	-0.06301933
STRONTIUM	421.552	Radial	68.04095	0.006022719	0.006047166	0.006213968	0.005807024
SULFUR	182.034	Axial	3.509232	-0.008632139	-0.006827698	-0.01412550	-0.004943220
THALLIUM	190.856	Axial	-1.74094	-0.006196374	-0.005745669	-0.007482211	-0.005361241
TIN	189.989	Axial	-0.5734053	-0.0001717014	-0.001087828	0.002318169	-0.001745445
TITANIUM	334.941	Radial	-9.74248	-0.004286111	-0.003328753	-0.004424235	-0.005105345
VANADIUM	292.402	Radial	1.931749	0.005867904	0.003866736	0.007944108	0.005792867
ZINC	206.200	Axial	29.29518	0.01131270	0.01161865	0.01153466	0.01078478

Sample ID: ICSAB Units: mg/l
Analyzed: 03/21/25 16:00 Sequence: 231 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6256.513	6200.909	6350.557	6218.074
YTTRIUM	360.073	Axial	58253.42	58406.59	58469.54	57884.14
YTTRIUM	360.073	Radial	4643.258	4649.304	4636.218	4644.251
INDIUM	230.606	Axial	1147.416	1139.175	1154.450	1148.622

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28522.96	509.9926	509.1749	511.2864	509.5164
ANTIMONY	206.833	Axial	65.57378	0.4857457	0.4967233	0.4816719	0.4788420
ARSENIC	189.042	Axial	98.28898	0.5065857	0.5073921	0.5062049	0.5061601
BARIUM	233.527	Axial	2930.050	0.5016722	0.5042393	0.4992945	0.5014827
BERYLLIUM	313.042	Radial	7891.885	0.5059382	0.5068191	0.5064899	0.5045057
BORON	249.678	Radial	199.0439	0.9782687	0.9828843	0.9793907	0.9725310
CADMIUM	228.802	Axial	2028.873	0.9761794	0.9816988	0.9655857	0.9812536
CALCIUM	373.690	Radial	49322.10	513.1524	513.2001	513.9677	512.2893
CERIUM	535.353	Radial	13.19893	-0.06015679	-0.04350693	-0.07699878	-0.05996465
CHROMIUM	267.716	Axial	1076.265	0.4781931	0.4790495	0.4738008	0.4817291
COBALT	228.616	Axial	458.0580	0.5088640	0.5127305	0.5094744	0.5043872
COPPER	324.754	Axial	2131.598	0.5193552	0.5185772	0.5207108	0.5187774
IRON	271.441	Radial	4062.766	202.3950	202.9702	201.9803	202.2344
LANTHANUM	333.749	Radial	-5.64659	-0.002720977	-0.003706744	-0.004931472	0.0004752857
LEAD	220.353	Axial	381.0528	0.9784631	0.9832687	0.9800589	0.9720617
LITHIUM	670.784	Radial	-3.44470	0.003510230	0.001484433	0.004118003	0.004928252
MAGNESIUM	279.079	Radial	43523.66	524.5210	525.6950	526.1479	521.7201
MANGANESE	257.610	Axial	10434.42	0.4995550	0.5024941	0.4985798	0.4975910
MOLYBDENUM	202.030	Axial	312.0399	0.4768171	0.4782659	0.4724227	0.4797628
NICKEL	231.604	Axial	829.1915	1.003753	1.002324	1.007041	1.001895
PHOSPHORUS	177.495	Axial	1.860509	0.004151974	0.008659107	0.001032533	0.002764283
POTASSIUM	766.490	Radial	-26.8323	-0.06919999	-0.06333285	-0.09110906	-0.05315807
SELENIUM	196.090	Axial	42.98445	0.4918897	0.4930427	0.4937018	0.4889245
SILICON	251.611	Axial	919.8088	0.9283568	0.9218242	0.9327935	0.9304528
SILVER	328.068	Axial	3439.980	0.9435174	0.9327297	0.9551681	0.9426543
SODIUM	589.592	Radial	-19.0619	-0.03694450	-0.03717246	-0.05930546	-0.01435560
STRONTIUM	421.552	Radial	69.69590	0.006160362	0.005965836	0.006240105	0.006275146
SULFUR	182.034	Axial	3.633156	-0.005977017	-0.01194375	-0.006623958	0.0006366521
THALLIUM	190.856	Axial	78.94126	0.4638389	0.4584681	0.4741664	0.4588821
TIN	189.989	Axial	175.6990	0.4870718	0.4904970	0.4820672	0.4886512
TITANIUM	334.941	Radial	797.3540	0.4917640	0.4908768	0.4958436	0.4885716
VANADIUM	292.402	Radial	290.2849	0.4929720	0.4905097	0.4906095	0.4977967
ZINC	206.200	Axial	2317.888	1.016482	1.026178	1.008042	1.015225

3051 MW ICP SS Metals Prep Benchsheet

Workgroup: WG2473543

Prep Start Date/Time: 03/21/25 07:40-07:41 **Prep End Date/Time:** 03/21/25 11:04 **Balance ID:** DECBAL03 **Analyst:** DRD4318 **Carousel ID:** 6
Microwave ID: MJ9747 **Dig. Start Date/Time:** 03/21/25 09:35:38 **Pipette ID:** F13412531 **SOP:** ENV-SOP-MTJL-0217 **Method:** 3051
Digestion Chips Lot #: 24K21124 **Pipette Tip Lot#:** 328C6-328C

Nitric Acid: 25C21221 Amt. Used: 4.50 mL Exp. Date:09/21/25 **Hydrochloric Acid:** 25C11505 Amt. Used: 1.50 mL Exp. Date:09/11/25
High Spike: 25B24106 Amt. Used: 0.50 mL Exp. Date:08/24/25 **High Spike 2:** 25B24107 Amt. Used: 0.50 mL Exp. Date:08/24/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Initial Vessel Mass (g)	Final Vessel Mass (g)	Sample Description	Review Analyst	Review Date
BLANK	0.49	50	154.73	154.68	pellets	DRD4318	03/21/25 11:04:23
LCS	0.48	50	155.85	155.79	pellets	DRD4318	03/21/25 11:04:23
MS(L1838002-01)	0.52	50	152.20	152.20	soil	DRD4318	03/21/25 11:04:23
MS(L1838014-01)	0.51	50	157.56	157.47	soil	DRD4318	03/21/25 11:04:23
MSD(L1838002-01)	0.53	50	155.92	155.87	soil	DRD4318	03/21/25 11:04:23
MSD(L1838014-01)	0.50	50	157.03	156.92	soil	DRD4318	03/21/25 11:04:23
1. L1838002-01	0.53	50	154.75	154.71	soil	DRD4318	03/21/25 11:04:23
2. L1838002-02	0.48	50	154.20	154.17	soil	DRD4318	03/21/25 11:04:23
3. L1838002-03	0.53	50	148.95	148.85	soil	DRD4318	03/21/25 11:04:23
4. L1838002-04	0.51	50	155.13	155.07	soil	DRD4318	03/21/25 11:04:23
5. L1838002-05	0.52	50	151.01	150.95	soil	DRD4318	03/21/25 11:04:23
6. L1838002-06	0.49	50	150.72	150.60	soil	DRD4318	03/21/25 11:04:23
7. L1838002-07	0.50	50	151.37	151.29	soil	DRD4318	03/21/25 11:04:23
8. L1838002-08	0.51	50	156.55	156.46	soil	DRD4318	03/21/25 11:04:23
9. L1838002-09	0.48	50	156.27	156.15	soil	DRD4318	03/21/25 11:04:23
10. L1838014-01	0.55	50	156.15	156.02	soil	DRD4318	03/21/25 11:04:23
11. L1838014-02	0.50	50	152.30	152.13	soil	DRD4318	03/21/25 11:04:23
12. L1838014-03	0.54	50	155.85	155.80	soil	DRD4318	03/21/25 11:04:23
13. L1838014-04	0.51	50	151.72	151.69	soil	DRD4318	03/21/25 11:04:23
14. L1838014-05	0.49	50	152.89	152.84	soil	DRD4318	03/21/25 11:04:23
15. L1838014-06	0.50	50	158.13	158.04	soil	DRD4318	03/21/25 11:04:23
16. L1838014-07	0.51	50	152.33	152.32	soil	DRD4318	03/21/25 11:04:23
17. L1838014-08	0.47	50	151.10	151.04	soil	DRD4318	03/21/25 11:04:23
18. L1838014-09	0.48	50	153.25	153.23	soil	DRD4318	03/21/25 11:04:23
19. L1838014-10	0.50	50	157.86	157.78	soil	DRD4318	03/21/25 11:04:23
20. L1838014-11	0.55	50	156.64	156.56	soil	DRD4318	03/21/25 11:04:23

Comments:
PEER REVIEW- AXP4121 3/21

Reviewed By:DRD4318 on 03/21/25 11:04:23

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Coef1	First Order Coefficient.
Coef2	Second Order Coefficient.
Corr.	Correlation Coefficient.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Incpt	Intercept.
Mass	Mass of parameter.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RSD	Relative Standard Deviation.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Wavelength	Wavelength of parameter.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

GLOSSARY OF TERMS

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Haley & Aldrich-Phoenix, AZ

400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Billing Information:
Attn: Accounts Payable
70 Blanchard Rd., Ste. 204
Burlington, MA 01803-5100

Pres Chk

Report to:
Samantha Kaney 602-760-2420

Email To: **skaney@haleyaldrich.com**

Project Description:

City/State Collected: Missouri

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # 0213103-000

Lab Project # **HALALDPAZ-EVERGY**

Collected by (print): S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

L1834604 - NV 3/20/25

E125

L1838054

Acctnum: **HALALDPAZ**
Template: **T269254**
Prelogin: **P1136136**
PM: **288 - Daphne Richards**
PB: **3/3/25 CAM**
Shipped Via: **FedEX Standard**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CR6,SULFATE,TS 4oz Clr-NoPres EPA 218.7 9LA	CR6ICFFP 50mlTube/plungerPres	Diss Metals, CR6LL 250mlHDPE-NoPres	Metals 2oz Clr-NoPres SW6010B Mercury EPA SW 7471B	SULFATE 125mlHDPE-NoPres	Total Metals 250mlHDPE-HNO3	EPA 903/904 Ra-226, Ra-228 1lstHDPE 2mlPres			Remarks	Sample # (lab only)
Montrose_School-Ditch_S_So	Comp	SS	0-1	3/10/25	1050	3	X			X			X				-01
Montrose-School-Drains_S_So	Comp	SS	0-1	3/10/25	1120	3	X			X			X				-02
650_851_S_So	Comp	SS	0-1	3/10/25	1155	3	X			X			X				-03
601_T_S_So	Comp	SS	0-1	3/10/25	1235	3	X			X			X				-04
250_651_S_So	Comp	SS	0-1	3/10/25	1310	3	X			X			X				-05
Davis_School_Ditch_S_So	Comp	SS	0-1	3/10/25	1350	3	X			X			X				-06
Davis-School-Drains_S_So	Comp	SS	0-1	3/10/25	1415	3	X			X			X				-07
Davis-school-front-playground_S_So	Comp	SS	0-1	3/10/25	1445	3	X			X			X				-08
Davis_School-w playground_S_So	~~Grab~~ Comp	SS	0-1	3/10/25	1510	3	X			X			X				-09
Davis_School-Track_S_So	Comp	SS	0-1	3/10/25	1535	3	X			X			X				-10

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:CR6LL has a 24hr hold time
No rush for rad

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	3/10/25	1800	FedEx
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Ei Davis 17

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp 2.7 °C Bottles Received: 33
2.7+0.4=3.1

If preservation required by Login: Date/Time

Date: 3-11-25 Time: 0900

Hold: Condition: NCF / OK

Company Name/Address:
Haley & Aldrich-Phoenix, AZ

400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Billing Information:
Attn: Accounts Payable
70 Blanchard Rd., Ste. 204
Burlington, MA 01803-5100

Pres Chk

Report to:
Samantha Kaney 602-760-2420

Email To: **skaney@haleyaldrich.com**

Project Description:

City/State Collected: Missouri

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
D213103-000

Lab Project #
HALALDPAZ-EVERGY

Collected by (print):
S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CR6,SULFATE,TS 4oz Clr-NoPres EPA 7196A, SM 4500 SO4 E-2011	CR6ICFFP 50mlTube/plungerPres	Diss Metals, CR6LL 250mlHDPE-NoPres	Metals 2ozClr-NoPres Mercury EPA 245.1/7470B Sw6020B	SULFATE 125mlHDPE-NoPres	Total Metals Metals 250mlHDPE-HNO3	EPA 903.1/904.0 Rad-226, 2nd-228 1 HDPE-			Remarks	Sample # (lab only)
Davis_school_Dup2_So	Grab	SS	0-1	3/10/25	1705	3	X			X			X				-11
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							
		SS				2	X			X							

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:CR6LL has a 24hr hold time
No rush for rad

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4439 2438 8561

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	3/10/25	1800	FedEx
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Li Davis

Trip Blank Received: Yes / (No) HCL / MeoH TBR

Temp: TNP °C Bottles Received: 33
2.7+0.4=3.1

Date: 3-11-25 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Chain of Custody Page 2 of 2

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1838014

Table # L1838014

Acctnum: **HALALDPAZ**

Template:**T269254**

Prelogin: **P1136136**

PM: 288 - Daphne Richards

PB: 3/13/25 CAM

Shipped Via: **FedEX Standard**

Rush relog L1834664 HALALDPAZ R3

R0/R1

Please relog L1834664, all samples for CR6 Method 7196 (run at dilution) and
6010 Metals Ag,As,Ba,B,Cd,Co,Cr,Li,Pb.
Transfer TS $0 : WG2467876 -01 through -10 WG2467878 -11
Add QC4
Select this SDG for MS/MSD on both CR6 and Metals
Log as R2 due Friday AM

Daphne Richards

Project Manager 2, National

Pace Analytical Services

O. 615.773.9662 l pacelabs.com

[cid:c5345835-1b7b-4faa-b1e4-ab6299bae13c]

[cid:f7f875f6-9824-45d4-83f9-1a1dac644d75]

Pace Analytical Services Online Billing<https://secure2.billtrust.com/pacelabs/ig/signin>

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P Please consider the environment before printing this email

Time estimate: oh **Time spent:** oh

Members

DR Daphne Richards (responsible)

ANALYTICAL REPORT

April 02, 2025

Revised Report

1 Cp
2 Tc
3 Ss
4 Cn
5 Su
6 Gl
7 Al
8 Sc

Haley & Aldrich-Phoenix, AZ

Sample Delivery Group:	L1838018
Samples Received:	03/12/2025
Project Number:	0213103.000
Description:	ESI-Env Sampling

Report To: Samantha Kaney
400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Entire Report Reviewed By: Daphne R Richards

Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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CLINTON-SCHOOL-DITCH-S-SO L1838018-01 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 08:10 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469633	1	03/17/25 12:19	03/17/25 12:25	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:53	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473544	1	03/21/25 09:56	03/21/25 14:58	DJS	Mt. Juliet, TN

18-901-S-SO L1838018-02 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 09:00 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469633	1	03/17/25 12:19	03/17/25 12:25	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:54	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473544	1	03/21/25 09:56	03/21/25 15:07	DJS	Mt. Juliet, TN

K-18-S-SO L1838018-03 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 09:40 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469633	1	03/17/25 12:19	03/17/25 12:25	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:55	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473544	1	03/21/25 09:56	03/21/25 15:09	DJS	Mt. Juliet, TN

P-230-S-SO L1838018-04 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 10:25 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:55	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473544	1	03/21/25 09:56	03/21/25 15:10	DJS	Mt. Juliet, TN

P-350-S-SO L1838018-05 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 10:55 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:55	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473544	1	03/21/25 09:56	03/21/25 15:20	DJS	Mt. Juliet, TN

NHR-S-SO L1838018-06 Solid

Collected by: S. Kaney | Collected date/time: 03/11/25 11:35 | Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:55	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473544	1	03/21/25 09:56	03/21/25 15:22	DJS	Mt. Juliet, TN

FLYASH-S-SO L1838018-07 Solid

Collected by: S. Kaney
Collected date/time: 03/11/25 15:08
Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:56	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473544	1	03/21/25 09:56	03/21/25 15:24	DJS	Mt. Juliet, TN

MONTROSE-LAKE-S-SO L1838018-08 Solid

Collected by: S. Kaney
Collected date/time: 03/11/25 13:30
Received date/time: 03/12/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2469634	1	03/15/25 14:32	03/15/25 14:45	JAV	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2473631	10	03/21/25 10:00	03/21/25 18:56	ARV	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2473544	1	03/21/25 09:56	03/21/25 15:25	DJS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

Report Revision History

Level II Report - Version 1: 03/27/25 09:22
Level IV Report - Version 2: 03/27/25 09:34
Level II Report - Version 3: 04/02/25 16:34

Project Narrative

Selenium added

2540 G-2011 Total Solids

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-S-SO

Lab Sample ID:	L1838018-01	**SDG:**	L1838018
Client Sample ID:	CLINTON-SCHOOL-DITCH-S-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	13	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/17/25 12:19
Analytical Batch:	WG2469633	**Analysis Date/Time:**	03/17/25 12:25
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.729 g
Total Solids (%):	72.6	**Final Wt/Vol:**	7.423 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	72.6	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-02	**SDG:**	L1838018
Client Sample ID:	18-901-S-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	14	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/17/25 12:19
Analytical Batch:	WG2469633	**Analysis Date/Time:**	03/17/25 12:25
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	9.675 g
Total Solids (%):	71.1	**Final Wt/Vol:**	7.257 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	71.1	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-03	**SDG:**	L1838018
Client Sample ID:	K-18-S-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	15	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/17/25 12:19
Analytical Batch:	WG2469633	**Analysis Date/Time:**	03/17/25 12:25
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	11.227 g
Total Solids (%):	63.3	**Final Wt/Vol:**	7.587 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	63.3	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-04	**SDG:**	L1838018
Client Sample ID:	P-230-S-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	16	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	6.729 g
Total Solids (%):	64.8	**Final Wt/Vol:**	4.814 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	64.8	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-05	**SDG:**	L1838018
Client Sample ID:	P-350-S-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	17	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.381 g
Total Solids (%):	66.4	**Final Wt/Vol:**	6.664 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	66.4	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-06	**SDG:**	L1838018
Client Sample ID:	NHR-S-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	18	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.153 g
Total Solids (%):	80.6	**Final Wt/Vol:**	7.632 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	80.6	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-07	**SDG:**	L1838018
Client Sample ID:	FLYASH-S-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	19	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	8.724 g
Total Solids (%):	67.6	**Final Wt/Vol:**	6.314 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	67.6	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-S-SO

Lab Sample ID:	L1838018-08	**SDG:**	L1838018
Client Sample ID:	MONTROSE-LAKE-S-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	20	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	9.826 g
Total Solids (%):	73.0	**Final Wt/Vol:**	7.522 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	73.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187078-1	**SDG:**	L1838018
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:30
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.286 g
Total Solids (%):		**Final Wt/Vol:**	1.287 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.00100	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187495-1	**SDG:**	L1838018
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/17/25 12:18
Analytical Batch:	WG2469633	**Analysis Date/Time:**	03/17/25 12:25
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	1.298 g
Total Solids (%):		**Final Wt/Vol:**	1.297 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	0.00100	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187078-3	**SDG:**	L1838018
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	02	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:32
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	4.565 g
Total Solids (%):	64.8	**Final Wt/Vol:**	3.35 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	62.9	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187495-3	**SDG:**	L1838018
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 13:36
Lab File ID:	02	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/17/25 12:18
Analytical Batch:	WG2469633	**Analysis Date/Time:**	03/17/25 12:25
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	8.835 g
Total Solids (%):	94.4	**Final Wt/Vol:**	8.414 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	94.4	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187078-2	**SDG:**	L1838018
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL1	**Preparation Date/Time:**	03/15/25 14:30
Analytical Batch:	WG2469634	**Analysis Date/Time:**	03/15/25 14:45
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.296 g
Total Solids (%):		**Final Wt/Vol:**	6.298 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187495-2	**SDG:**	L1838018
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	LOGBAL3	**Preparation Date/Time:**	03/17/25 12:18
Analytical Batch:	WG2469633	**Analysis Date/Time:**	03/17/25 12:25
Dilution Factor:	1	**Prep Method:**	SM 2540 G
Analytical Method:	2540 G-2011	**Sample Vol Used:**	
Matrix:	Solid	**Initial Wt/Vol:**	11.298 g
Total Solids (%):		**Final Wt/Vol:**	6.295 g

Analyte	CAS	Result	Qualifier
		%	
Total Solids	TSOLIDS	50.0	

SDG:	L1838018	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL1	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2469634

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.00100	

SDG:	L1838018	**Calibration (begin) date/time:**	_____
Instrument ID:	LOGBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 G-2011	**Analytical Run:**	WG2469633

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	01	
Analyte		%	
TOTAL SOLIDS		0.00100	

DUP Sample / File ID:	R4187078-3 / 02	**SDG:**	L1838018
OS Sample / File ID:	L1835560-04 / 07	**Analytical Batch:**	WG2469634
Instrument ID:	LOGBAL1	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	64.8	62.9	3.04	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4187495-3 / 02	**SDG:**	L1838018
OS Sample / File ID:	L1835262-12 / 05	**Analytical Batch:**	WG2469633
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	OS Result	DUP Result	RPD	RPD Limits
	%	%	%	%
Total Solids	94.4	94.4	0.0256	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1838018-04,05,06,07,08

SAMPLE NO.:
R4187078-2

LCS Sample / File ID:	R4187078-2 / 03	**SDG:**	L1838018
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2469634
Instrument ID:	LOGBAL1	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1838018-01,02,03

SAMPLE NO.:
R4187495-2

LCS Sample / File ID:	R4187495-2 / 03	**SDG:**	L1838018
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2469633
Instrument ID:	LOGBAL3	**Dilution Factor:**	1
Analytical Method:	2540 G-2011	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	%	%		%	%	%	%	%
Total Solids	50.0	50.0		100		90.0 - 110		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1838018-01,02,03,04,05,06,07,08
Matrix: Solid
Analytical Method: 2540 G-2011
Prep Method: SM 2540 G

Analyte	CAS	Wavelength	Mass	MDL	RDL
				%	%
Total Solids	TSOLIDS				

ANALYSIS LOG

SDG:	L1838018	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL1	**Calibration Start Date:**	
Analytical Run:	WG2469634	**Calibration End Date:**	

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4187078-1	01	03/15/25 14:45	1	WG2469634
DUP	R4187078-3	02	03/15/25 14:45	1	WG2469634
LCS	R4187078-2	03	03/15/25 14:45	1	WG2469634
OS	L1835560-04	07	03/15/25 14:45		
P-230-S-SO	L1838018-04	16	03/15/25 14:45	1	WG2469634
P-350-S-SO	L1838018-05	17	03/15/25 14:45	1	WG2469634
NHR-S-SO	L1838018-06	18	03/15/25 14:45	1	WG2469634
FLYASH-S-SO	L1838018-07	19	03/15/25 14:45	1	WG2469634
MONTROSE-LAKE-S-SO	L1838018-08	20	03/15/25 14:45	1	WG2469634

ANALYSIS LOG

SDG:	L1838018	**Analytical Method:**	2540 G-2011
Instrument ID:	LOGBAL3	**Calibration Start Date:**	_____
Analytical Run:	WG2469633	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R4187495-1	01	03/17/25 12:25	1	WG2469633
DUP	R4187495-3	02	03/17/25 12:25	1	WG2469633
LCS	R4187495-2	03	03/17/25 12:25	1	WG2469633
OS	L1835262-12	05	03/17/25 12:25		
CLINTON-SCHOOL-DITCH-S-SO	L1838018-01	13	03/17/25 12:25	1	WG2469633
18-901-S-SO	L1838018-02	14	03/17/25 12:25	1	WG2469633
K-18-S-SO	L1838018-03	15	03/17/25 12:25	1	WG2469633

Total Solids WetChem Prep Benchsheet

Batch: WG2469633

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835262	WG2469549	BJM688	PREPREPBAL4	14-MAR-25
L1835347	WG2469565	BJM688	PREPREPBAL4	14-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25

Analyst: CMB3616 **Prep Start Date/Time:** 03/17/25 12:18-12:19 **Prep End Date/Time:** 03/18/25 08:07 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL3 **LCS True Value:** 50

LCS: 24L13176 Amt. Used: 50 Exp. Date:06/13/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				G1	1.298	1.298	1.297	1.297	0	0.001	99.999						JAV213	03/20/25 13:38:34
LCS				G2	1.296	11.298	6.295	6.295	0	49.98	50.02	99.96	100.04				JAV213	03/20/25 13:38:34
DUP(L1835262-12)				G3	1.305	8.835	8.414	8.414	0	94.409	5.591			0.03	0.43	0314PP4	JAV213	03/20/25 13:38:34
1. L1835262-11	SS		03/10/25 13:10	G4	1.313	10.132	9.384	9.383	0.001	91.507	8.493					0314PP4	JAV213	03/20/25 13:38:34
2. L1835262-12	SS		03/10/25 13:36	G5	1.302	9.031	8.599	8.597	0.002	94.3848	5.6152						JAV213	03/20/25 13:38:34
3. L1835262-13	SS		03/10/25 13:36	G6	1.301	9.721	9.240	9.239	0.001	94.2755	5.7245					0314PP4	JAV213	03/20/25 13:38:34
4. L1835262-14	SS		03/10/25 13:48	G7	1.298	7.931	6.713	6.711	0.002	81.6071	18.3929					0314PP4	JAV213	03/20/25 13:38:34
5. L1835347-01	SS	AL	03/11/25 08:05	G8	1.301	10.389	9.454	9.452	0.002	89.6897	10.3103					0314PP4	JAV213	03/20/25 13:38:34
6. L1835347-02	SS	AL	03/11/25 08:10	G9	1.297	9.511	8.689	8.688	0.001	89.9805	10.0195					0314PP4	JAV213	03/20/25 13:38:34
7. L1835560-01	SS	MO	03/11/25 08:10	G10	1.315	9.729	7.422	7.423	0.001	72.5933	27.4067					0314PP4	JAV213	03/20/25 13:38:34
8. L1835560-02	SS	MO	03/11/25 09:00	G11	1.300	9.675	7.257	7.257	0	71.1284	28.8716					0314PP4	JAV213	03/20/25 13:38:34
9. L1835560-03	SS	MO	03/11/25 09:40	G12	1.299	11.227	7.586	7.587	0.001	63.336	36.664						JAV213	03/20/25 13:38:34
10. L1838018-01	SS	MO	03/11/25 08:10	G10	1.315	9.729	7.422	7.423	0.001	72.5933	27.4067					0314PP4	JAV213	03/20/25 13:38:34
11. L1838018-02	SS	MO	03/11/25 09:00	G11	1.300	9.675	7.257	7.257	0	71.1284	28.8716					0314PP4	JAV213	03/20/25 13:38:34
12. L1838018-03	SS	MO	03/11/25 09:40	G12	1.299	11.227	7.586	7.587	0.001	63.336	36.664						JAV213	03/20/25 13:38:34

Comments:
L1838018-01 Time Added: 03/20/25 09:45:26
L1838018-02 Time Added: 03/20/25 09:45:26
L1838018-03 Time Added: 03/20/25 09:45:27

Reviewed By:JAV213 on 03/20/25 13:38:34

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/17/25 12:25:14	104	104	03/18/25 05:46:02	104	104	BLANK, LCS, DUP(L1835262-12), L1835262-11, L1838018-03, L1838018-02, L1838018-01, L1835560-03, L1835560-02, L1835560-01, L1835347-02, L1835347-01, L1835262-14, L1835262-13, L1835262-12
2	Oven-1hr	03/18/25 05:48:10	104	104	03/18/25 08:04:44	104	104	BLANK, LCS, DUP(L1835262-12), L1835262-11, L1835262-12, L1835262-13, L1835262-14, L1835347-01, L1835347-02, L1835560-01, L1835560-02, L1835560-03, L1838018-01, L1838018-02, L1838018-03

Total Solids WetChem Prep Benchsheet

Batch: WG2469634

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1835095	WG2469547	BJM688	PREPREPBAL4	14-MAR-25
L1835560	WG2469586	BJM688	PREPREPBAL4	14-MAR-25
L1835568	WG2469589	BJM688	PREPREPBAL4	14-MAR-25

Analyst: MT3521 **Prep Start Date/Time:** 03/15/25 14:30-14:32 **Prep End Date/Time:** 03/17/25 09:27 **SOP:** 0178 **Method:** SM 2540G **Oven ID:** WLOV-06
Balance ID: LOGBAL1 **LCS True Value:** 50

LCS: 25C04424 Amt. Used: 50 Exp. Date:09/04/25

Sample Number	Matrix	State	Collect Date	Vessel ID	Vessel Wt (g)	Sample + Vessel Wt (g)	Oven Wt1 (g)	Oven Wt2 (g)	Wt Diff (g)	% TS Result	% Moisture Result	TS % Recovery	Moisture % Rec.	TS RPD	% Moisture RPD	Box ID	Review Analyst	Review Date
BLANK				BB1	1.286	1.286	1.286	1.287	0.001	0.001	99.999						JAV213	03/20/25 13:38:44
LCS				BB2	1.294	11.296	6.296	6.298	0.002	50.03	49.97	100.06	99.94				JAV213	03/20/25 13:38:44
DUP(L1835560-04)				BB3	1.294	4.565	3.348	3.350	0.002	62.8554	37.1446			3.04	5.37		JAV213	03/20/25 13:38:44
1. L1835095-05	SS	OR	02/27/25 13:12	BB4	1.282	6.942	6.514	6.514	0	92.4382	7.5618					0314PP4	JAV213	03/20/25 13:38:44
2. L1835095-06	SS	OR	02/27/25 13:35	BB5	1.286	10.157	9.576	9.575	0.001	93.4393	6.5607					0314PP4	JAV213	03/20/25 13:38:44
3. L1835095-07	SS	OR	02/27/25 14:06	BB6	1.290	11.270	7.846	7.846	0	65.6914	34.3086					0314PP4	JAV213	03/20/25 13:38:44
4. L1835560-04	SS	MO	03/11/25 10:25	BB7	1.289	6.729	4.811	4.814	0.003	64.7978	35.2022					0314PP4	JAV213	03/20/25 13:38:44
5. L1835560-05	SS	MO	03/11/25 10:55	BB8	1.283	9.381	6.662	6.664	0.002	66.4485	33.5515					0314PP4	JAV213	03/20/25 13:38:44
6. L1835560-06	SS	MO	03/11/25 11:35	BB9	1.294	9.153	7.628	7.632	0.004	80.6464	19.3536					0314PP4	JAV213	03/20/25 13:38:44
7. L1835560-07	SS	MO	03/11/25 15:08	BB10	1.286	8.724	6.310	6.314	0.004	67.5988	32.4012					0314PP4	JAV213	03/20/25 13:38:44
8. L1835560-08	SS	MO	03/11/25 13:30	BB11	1.287	9.826	7.519	7.522	0.003	73.0179	26.9821					0314PP4	JAV213	03/20/25 13:38:44
9. L1835568-01	SS	MO	03/11/25 08:10	BB12	1.289	9.833	7.029	7.032	0.003	67.2168	32.7832					0314PP4	JAV213	03/20/25 13:38:44
10. L1835568-02	SS	MO	03/11/25 09:00	BB13	1.292	11.928	8.618	8.623	0.005	68.9263	31.0737					0314PP4	JAV213	03/20/25 13:38:44
11. L1838002-01	SS	MO	03/11/25 08:10	BB12	1.289	9.833	7.029	7.032	0.003	67.2168	32.7832					0314PP4	JAV213	03/20/25 13:38:44
12. L1838002-02	SS	MO	03/11/25 09:00	BB13	1.292	11.928	8.618	8.623	0.005	68.9263	31.0737					0314PP4	JAV213	03/20/25 13:38:44
13. L1838018-04	SS	MO	03/11/25 10:25	BB7	1.289	6.729	4.811	4.814	0.003	64.7978	35.2022					0314PP4	JAV213	03/20/25 13:38:44
14. L1838018-05	SS	MO	03/11/25 10:55	BB8	1.283	9.381	6.662	6.664	0.002	66.4485	33.5515					0314PP4	JAV213	03/20/25 13:38:44
15. L1838018-06	SS	MO	03/11/25 11:35	BB9	1.294	9.153	7.628	7.632	0.004	80.6464	19.3536					0314PP4	JAV213	03/20/25 13:38:44
16. L1838018-07	SS	MO	03/11/25 15:08	BB10	1.286	8.724	6.310	6.314	0.004	67.5988	32.4012					0314PP4	JAV213	03/20/25 13:38:44
17. L1838018-08	SS	MO	03/11/25 13:30	BB11	1.287	9.826	7.519	7.522	0.003	73.0179	26.9821					0314PP4	JAV213	03/20/25 13:38:44

Comments:
L1838002-01 Time Added: 03/20/25 09:15:06
L1838002-02 Time Added: 03/20/25 09:15:06
L1838018-05 Time Added: 03/20/25 09:45:27
L1838018-06 Time Added: 03/20/25 09:45:28
L1838018-04 Time Added: 03/20/25 09:45:27
L1838018-07 Time Added: 03/20/25 09:45:28
L1838018-08 Time Added: 03/20/25 09:45:28

Reviewed By:JAV213 on 03/20/25 13:38:44

#	Type	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Oven-4hr	03/15/25 14:45:23	104	104	03/17/25 07:50:49	104	104	BLANK, LCS, DUP(L1835560-04), L1835095-05, L1838018-08, L1838018-07, L1838018-06, L1838018-05, L1838018-04, L1838002-02, L1838002-01, L1835568-02, L1835568-01, L1835560-08, L1835560-07, L1835560-06, L1835560-05, L1835560-04, L1835095-07, L1835095-06
2	Oven-1hr	03/17/25 07:53:39	104	104	03/17/25 09:22:46	104	104	BLANK, LCS, DUP(L1835560-04), L1835095-05, L1835095-06, L1835095-07, L1835560-04, L1835560-05, L1835560-06, L1835560-07, L1835560-08, L1835568-01, L1835568-02, L1838002-01, L1838002-02, L1838018-04, L1838018-05, L1838018-06, L1838018-07, L1838018-08

3060A/7196A Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-S-SO

Lab Sample ID:	L1838018-01	**SDG:**	L1838018
Client Sample ID:	CLINTON-SCHOOL-DITCH-S-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321185304	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:53
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2500 g
Total Solids (%):	72.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.3	27.6

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
18-901-S-SO

Lab Sample ID:	L1838018-02	**SDG:**	L1838018
Client Sample ID:	18-901-S-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	20250321185422	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:54
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2513 g
Total Solids (%):	71.1	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.6	28.1

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-03	**SDG:**	L1838018
Client Sample ID:	K-18-S-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	20250321185504	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:55
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2529 g
Total Solids (%):	63.3	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		11.9	31.6

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-04	**SDG:**	L1838018
Client Sample ID:	P-230-S-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	20250321185518	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:55
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2534 g
Total Solids (%):	64.8	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		11.6	30.9

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
P-350-S-SO

Lab Sample ID:	L1838018-05	**SDG:**	L1838018
Client Sample ID:	P-350-S-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	20250321185530	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:55
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2513 g
Total Solids (%):	66.4	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		11.3	30.1

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
NHR-S-SO

Lab Sample ID:	L1838018-06	**SDG:**	L1838018
Client Sample ID:	NHR-S-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250321185545	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:55
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2533 g
Total Solids (%):	80.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		9.31	24.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-07	**SDG:**	L1838018
Client Sample ID:	FLYASH-S-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	20250321185600	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:56
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2531 g
Total Solids (%):	67.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		11.1	29.6

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-S-SO

Lab Sample ID:	L1838018-08	**SDG:**	L1838018
Client Sample ID:	MONTROSE-LAKE-S-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	20250321185633	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:56
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2510 g
Total Solids (%):	73.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.3	27.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-1	**SDG:**	L1838018
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250321184629	**Received Date/Time:**	_____
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 09:59
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:46
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-2	**SDG:**	L1838018
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250321184635	**Received Date/Time:**	_____
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 09:59
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:46
Dilution Factor:	1	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	2.5 g
Total Solids (%):	_____	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	24.1		0.751	2.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-12	**SDG:**	L1838018
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	20250321185647	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:56
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2517 g
Total Solids (%):	73.0	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		10.3	27.4

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-7	**SDG:**	L1838018
Client Sample ID:	DUP	**Collected Date/Time:**	03/10/25 11:20
Lab File ID:	20250321185015	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:50
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2535 g
Total Solids (%):	75.5	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	U		9.94	26.5

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-10	**SDG:**	L1838018
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321185404	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:54
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2506 g
Total Solids (%):	72.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	272		10.3	27.6

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-4	**SDG:**	L1838018
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321184844	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:48
Dilution Factor:	50	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2521 g
Total Solids (%):	77.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	9030		48.5	129

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-5	**SDG:**	L1838018
Client Sample ID:	MS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321184909	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:49
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2513 g
Total Solids (%):	77.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	249		9.68	25.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-9	**SDG:**	L1838018
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321185346	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:53
Dilution Factor:	50	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2508 g
Total Solids (%):	72.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	9490		51.8	138

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-11	**SDG:**	L1838018
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321185410	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:54
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2508 g
Total Solids (%):	72.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	276		10.3	27.6

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-6	**SDG:**	L1838018
Client Sample ID:	MSD	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321184930	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:49
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2539 g
Total Solids (%):	77.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	246		9.68	25.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-3	**SDG:**	L1838018
Client Sample ID:	PS	**Collected Date/Time:**	03/10/25 10:50
Lab File ID:	20250321184658	**Received Date/Time:**	03/11/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:46
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2541 g
Total Solids (%):	77.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	283		9.68	25.8

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189572-8	**SDG:**	L1838018
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321185320	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	DR6000-3	**Preparation Date/Time:**	03/21/25 10:00
Analytical Batch:	WG2473631	**Analysis Date/Time:**	03/21/25 18:53
Dilution Factor:	10	**Prep Method:**	3060A
Analytical Method:	3060A/7196A	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.2500 g
Total Solids (%):	72.6	**Final Wt/Vol:**	100 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Chromium,Hexavalent	18540-29-9	329		10.3	27.6

CALIBRATION VERIFICATION

SDG:	L1838018	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631
Concentration Units:	mg/L		

	ICV				CCV				CCV			
Sample ID:	DR6000-3032125184622				DR6000-3032125185002				DR6000-3032125185126			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20	19.60	98		20	19.48	97.40		20	19.44	97.20	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1838018	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631
Concentration Units:	mg/L		

		CCV				CCV				CCV			
Sample ID:		DR6000-3032125185245				DR6000-3032125185444				DR6000-3032125185654			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20	19.40	97		20	19.48	97.40		20	19.52	97.60	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1838018	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631
Concentration Units:	mg/L		

CCV

Sample ID: DR6000-3032125185613

Analyte	True	Found	%R	%RSD
CHROMIUM,HEXAVALENT	20	19.40	97	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1838018	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250321184629		20250321185008		20250321185132		20250321185251	
Analyte	mg/kg		mg/L		mg/L		mg/L	
CHROMIUM,HEXAVALENT	U		-0.002000		-0.002000		-0.001000	

SDG:	L1838018	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250321185456		20250321185620		20250321185700	
Analyte	mg/L		mg/L		mg/L	
CHROMIUM,HEXAVALENT	-0.001000		0.0000		0.0000	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838018-01,02,03,04,05,06,07,08

SAMPLE NO.:
R4189572-10
R4189572-11

MS Sample / File ID:	R4189572-10 / 20250321185404	**SDG:**	L1838018
MSD Sample / File ID:	R4189572-11 / 20250321185410	**Analytical Batch:**	WG2473631
OS Sample / File ID:	L1838018-01 / 20250321185304	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	276	U	272	276	98.8	100	10	75.0 - 125	1.52	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838018-01,02,03,04,05,06,07,08

SAMPLE NO.: R4189572-4

MS Sample / File ID:	R4189572-4 / 20250321184844	**SDG:**	L1838018
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2473631
OS Sample / File ID:	L1838014-01 / 20250321184644	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	8220	U	9030		110		50	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838018-01,02,03,04,05,06,07,08

SAMPLE NO.:
R4189572-5
R4189572-6

MS Sample / File ID:	R4189572-5 / 20250321184909	**SDG:**	L1838018
MSD Sample / File ID:	R4189572-6 / 20250321184930	**Analytical Batch:**	WG2473631
OS Sample / File ID:	L1838014-01 / 20250321184644	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	258	U	249	246	96.5	95.3	10	75.0 - 125	1.24	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838018-01,02,03,04,05,06,07,08

SAMPLE NO.: R4189572-9

MS Sample / File ID:	R4189572-9 / 20250321185346	**SDG:**	L1838018
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2473631
OS Sample / File ID:	L1838018-01 / 20250321185304	**Matrix:**	Solid
Instrument ID:	DR6000-3		
Analytical Method:	3060A/7196A		

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	8830	U	9490		108		50	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1838018-01,02,03,04,05,06,07,08

PS Sample / File ID:	R4189572-3 / 20250321184658	**SDG:**	L1838018
OS Sample / File ID:	L1838014-01 / 20250321184644	**Analytical Batch:**	WG2473631
Instrument ID:	DR6000-3	**Dilution Factor:**	10
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	322	U	283		88.0		10	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1838018-01,02,03,04,05,06,07,08

SAMPLE NO.: R4189572-8

PS Sample / File ID:	R4189572-8 / 20250321185320	**SDG:**	L1838018
OS Sample / File ID:	L1838018-01 / 20250321185304	**Analytical Batch:**	WG2473631
Instrument ID:	DR6000-3	**Dilution Factor:**	10
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		*%*	*%*		*%*	*%*	*%*
Chromium,Hexavalent	344	U	329		95.5		10	75.0 - 125		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4189572-12 / 20250321185647	**SDG:**	L1838018
OS Sample / File ID:	L1838018-08 / 20250321185633	**Analytical Batch:**	WG2473631
Instrument ID:	DR6000-3	**Dilution Factor:**	10
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	**OS Result (dry)**	**DUP Result (dry)**	**RPD**	**RPD Limits**
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4189572-7 / 20250321185015	**SDG:**	L1838018
OS Sample / File ID:	L1838014-02 / 20250321184944	**Analytical Batch:**	WG2473631
Instrument ID:	DR6000-3	**Dilution Factor:**	10
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	OS Result (dry)	DUP Result (dry)	RPD	RPD Limits
	mg/kg	*mg/kg*	*%*	*%*
Chromium,Hexavalent	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1838018-01,02,03,04,05,06,07,08

SAMPLE NO.: R4189572-2

LCS Sample / File ID:	R4189572-2 / 20250321184635	**SDG:**	L1838018
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2473631
Instrument ID:	DR6000-3	**Dilution Factor:**	1
Analytical Method:	3060A/7196A	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Chromium,Hexavalent	24.0	24.1		101		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1838018-01,02,03,04,05,06,07,08
Matrix: Solid
Analytical Method: 3060A/7196A
Prep Method: 3060A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Chromium,Hexavalent	18540-29-9			0.7510	2

ANALYSIS LOG

SDG:	L1838018	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	_____
Analytical Run:	WG2420318	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0	50	12/19/24 15:00		
CAL	.01	51	12/19/24 15:00		
CAL	.02	52	12/19/24 15:00		
CAL	.05	53	12/19/24 15:00		
CAL	.1	54	12/19/24 15:00		
CAL	.5	55	12/19/24 15:00		
CAL	1	56	12/19/24 15:00		

ANALYSIS LOG

SDG:	L1838018	**Analytical Method:**	3060A/7196A
Instrument ID:	DR6000-3	**Calibration Start Date:**	12/19/24 15:00
Analytical Run:	WG2473631	**Calibration End Date:**	12/19/24 15:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-3032125184622	20250321184622	03/21/25 18:46		
BLANK	R4189572-1	20250321184629	03/21/25 18:46	1	WG2473631
LCS	R4189572-2	20250321184635	03/21/25 18:46	1	WG2473631
OS	L1838014-01	20250321184644	03/21/25 18:46		
L1838014-01	L1838014-01	20250321184644	03/21/25 18:46	10	WG2473631
PS	R4189572-3	20250321184658	03/21/25 18:46	10	WG2473631
MS	R4189572-4	20250321184844	03/21/25 18:48	50	WG2473631
MS	R4189572-5	20250321184909	03/21/25 18:49	10	WG2473631
MSD	R4189572-6	20250321184930	03/21/25 18:49	10	WG2473631
OS	L1838014-02	20250321184944	03/21/25 18:49		
L1838014-02	L1838014-02	20250321184944	03/21/25 18:49	10	WG2473631
CCV	DR6000-3032125185002	20250321185002	03/21/25 18:50		
CCB	DR6000-3032125185008	20250321185008	03/21/25 18:50		
DUP	R4189572-7	20250321185015	03/21/25 18:50	10	WG2473631
L1838014-03	L1838014-03	20250321185022	03/21/25 18:50	10	WG2473631
L1838014-04	L1838014-04	20250321185039	03/21/25 18:50	10	WG2473631
L1838014-05	L1838014-05	20250321185052	03/21/25 18:50	10	WG2473631
L1838014-06	L1838014-06	20250321185105	03/21/25 18:51	10	WG2473631
CCV	DR6000-3032125185126	20250321185126	03/21/25 18:51		
CCB	DR6000-3032125185132	20250321185132	03/21/25 18:51		
CCV	DR6000-3032125185245	20250321185245	03/21/25 18:52		
CCB	DR6000-3032125185251	20250321185251	03/21/25 18:52		
CLINTON-SCHOOL-DITCH-S-SO	L1838018-01	20250321185304	03/21/25 18:53	10	WG2473631
PS	R4189572-8	20250321185320	03/21/25 18:53	10	WG2473631
MS	R4189572-9	20250321185346	03/21/25 18:53	50	WG2473631
MS	R4189572-10	20250321185404	03/21/25 18:54	10	WG2473631
MSD	R4189572-11	20250321185410	03/21/25 18:54	10	WG2473631
18-901-S-SO	L1838018-02	20250321185422	03/21/25 18:54	10	WG2473631
CCV	DR6000-3032125185444	20250321185444	03/21/25 18:54		
CCB	DR6000-3032125185456	20250321185456	03/21/25 18:54		
K-18-S-SO	L1838018-03	20250321185504	03/21/25 18:55	10	WG2473631
P-230-S-SO	L1838018-04	20250321185518	03/21/25 18:55	10	WG2473631
P-350-S-SO	L1838018-05	20250321185530	03/21/25 18:55	10	WG2473631
NHR-S-SO	L1838018-06	20250321185545	03/21/25 18:55	10	WG2473631
FLYASH-S-SO	L1838018-07	20250321185600	03/21/25 18:56	10	WG2473631
CCV	DR6000-3032125185613	20250321185613	03/21/25 18:56		
CCB	DR6000-3032125185620	20250321185620	03/21/25 18:56		
MONTROSE-LAKE-S-SO	L1838018-08	20250321185633	03/21/25 18:56	10	WG2473631
DUP	R4189572-12	20250321185647	03/21/25 18:56	10	WG2473631
CCV	DR6000-3032125185654	20250321185654	03/21/25 18:56		
CCB	DR6000-3032125185700	20250321185700	03/21/25 18:57		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838018	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.01	.007658858	76.60	0.02	.018552278	92.80
File ID:		51			52	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838018	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.05	.047964512	95.90	0.10	.094806218	94.80
File ID:		53			54	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838018	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM,HEXAVALENT	0.50	.529453676	106	1	.984798632	98.50
File ID:		55			56	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1838018	**Calibration (begin) date/time:**	12/19/24 15:00
Instrument ID:	DR6000-3	**Calibration (end) date/time:**	12/19/24 15:00
Analytical Method:	3060A/7196A	**Analytical Run:**	WG2473631

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CHROMIUM,HEXAVALENT	0	5	0.999332			1.089342	-0.003235	

Calibration Type

0 = Linear Regression

Weightage

5 = None

Created: 12/19/24 15:26

Instrument: DR6000-3

Calibration Date: 12/19/24 15:00

Program Name: CR6 SS 12/19/2024 ARV4164

Wavelength: 540.0 nm

Analytical Method: 7196A SS

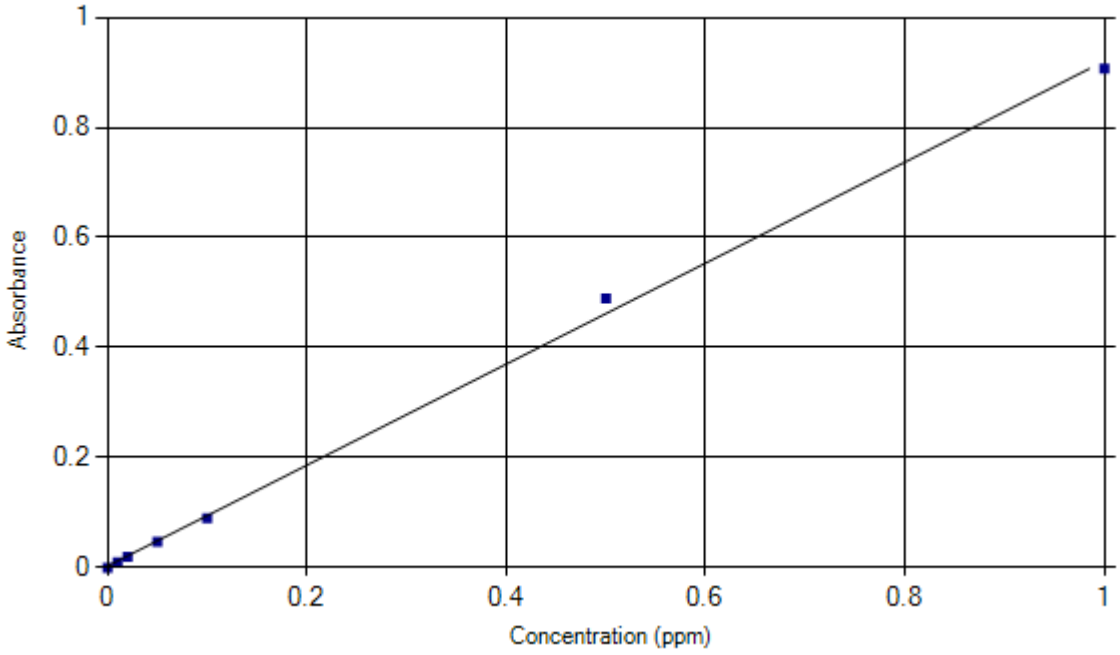
Analyte: CR6

Calibration Equation: Concentration = -0.003234562 + 1.089342 * Absorbance

Standard ID: 24L19163

ppm	Absorbance
0	0
0.01	0.01
0.02	0.02
0.05	0.047
0.1	0.090
0.5	0.489
1	0.907

R = 0.9993323



Instrument: DR6000-3

Created: 03/21/25 18:59

Serial Number: 1894098

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/21/25 18:46:22	CR6	CR6 SS 12/19/2024 ARV4164	ICV	1	0.490	mg/L	0.452
03/21/25 18:46:29	CR6	CR6 SS 12/19/2024 ARV4164	BLANK WG2473631	1	-0.003	mg/L	0.000
03/21/25 18:46:35	CR6	CR6 SS 12/19/2024 ARV4164	LCS WG2473631	1	0.603	mg/L	0.557
03/21/25 18:46:44	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-01 WG2473631	1	-0.002	mg/L	0.001
03/21/25 18:46:51	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-01-SB WG2473631	1	-0.002	mg/L	0.001
03/21/25 18:46:58	CR6	CR6 SS 12/19/2024 ARV4164	PS L1838014-01 WG2473631	1	0.559	mg/L	0.516
03/21/25 18:48:44	CR6	CR6 SS 12/19/2024 ARV4164	IMS L1838014-01 WG2473631	50.000	0.35338	mg/L	0.327
03/21/25 18:49:09	CR6	CR6 SS 12/19/2024 ARV4164	MS L1838014-01 WG2473631	1	0.485	mg/L	0.448
03/21/25 18:49:30	CR6	CR6 SS 12/19/2024 ARV4164	MSD L1838014-01 WG2473631	1	0.484	mg/L	0.447
03/21/25 18:49:44	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-02 WG2473631	1	-0.006	mg/L	-0.003
03/21/25 18:49:53	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-02-SB WG2473631	1	-0.006	mg/L	-0.003
03/21/25 18:50:02	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.487	mg/L	0.450
03/21/25 18:50:08	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.002	mg/L	0.001
03/21/25 18:50:15	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1838014-02 WG2473631	1	-0.006	mg/L	-0.002
03/21/25 18:50:22	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-03 WG2473631	1	-0.002	mg/L	0.001
03/21/25 18:50:29	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-03-SB WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:50:39	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-04 WG2473631	1	0.002	mg/L	0.005
03/21/25 18:50:45	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-04-SB WG2473631	1	0.001	mg/L	0.003
03/21/25 18:50:52	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-05 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:50:58	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-05-SB WG2473631	1	-0.005	mg/L	-0.001
03/21/25 18:51:05	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-06 WG2473631	1	0.001	mg/L	0.003
03/21/25 18:51:16	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-06-SB WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:51:26	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.486	mg/L	0.449
03/21/25 18:51:32	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.002	mg/L	0.001
03/21/25 18:51:40	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-07 WG2473631	1	-0.004	mg/L	-0.001
03/21/25 18:51:47	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-07-SB WG2473631	1	-0.005	mg/L	-0.002
03/21/25 18:51:54	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-08 WG2473631	1	0.000	mg/L	0.003
03/21/25 18:52:00	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-08-SB WG2473631	1	0.000	mg/L	0.003
03/21/25 18:52:06	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-09 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:52:13	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-09-SB WG2473631	1	-0.004	mg/L	-0.001
03/21/25 18:52:20	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-10 WG2473631	1	-0.002	mg/L	0.001
03/21/25 18:52:26	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-10-SB WG2473631	1	0.000	mg/L	0.003
03/21/25 18:52:34	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-11 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:52:45	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.485	mg/L	0.448
03/21/25 18:52:51	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.001	mg/L	0.001
03/21/25 18:52:57	CR6	CR6 SS 12/19/2024 ARV4164	L1838014-11-SB WG2473631	1	-0.002	mg/L	0.001
03/21/25 18:53:04	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-01 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:53:12	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-01-SB WG2473631	1	-0.005	mg/L	-0.002
03/21/25 18:53:20	CR6	CR6 SS 12/19/2024 ARV4164	PS L1838018-01 WG2473631	1	0.597	mg/L	0.551

Date/Time	Analyte	Program	Sample ID	Dilution	Result	Units	Absorbance
03/21/25 18:53:46	CR6	CR6 SS 12/19/2024 ARV4164	IMS L1838018-01 WG2473631	50.000	0.34568	mg/L	0.320
03/21/25 18:54:04	CR6	CR6 SS 12/19/2024 ARV4164	MS L1838018-01 WG2473631	1	0.495	mg/L	0.458
03/21/25 18:54:10	CR6	CR6 SS 12/19/2024 ARV4164	MSD L1838018-01 WG2473631	1	0.503	mg/L	0.465
03/21/25 18:54:22	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-02 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:54:30	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-02-SB WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:54:44	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.487	mg/L	0.450
03/21/25 18:54:56	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	-0.001	mg/L	0.002
03/21/25 18:55:04	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-03 WG2473631	1	0.002	mg/L	0.005
03/21/25 18:55:11	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-03-SB WG2473631	1	0.001	mg/L	0.004
03/21/25 18:55:18	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-04 WG2473631	1	0.002	mg/L	0.004
03/21/25 18:55:24	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-04-SB WG2473631	1	0.001	mg/L	0.004
03/21/25 18:55:30	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-05 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:55:38	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-05-SB WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:55:45	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-06 WG2473631	1	0.003	mg/L	0.005
03/21/25 18:55:52	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-06-SB WG2473631	1	0.008	mg/L	0.010
03/21/25 18:56:00	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-07 WG2473631	1	-0.005	mg/L	-0.002
03/21/25 18:56:13	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.485	mg/L	0.448
03/21/25 18:56:20	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	0.000	mg/L	0.002
03/21/25 18:56:27	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-07-SB WG2473631	1	-0.006	mg/L	-0.003
03/21/25 18:56:33	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-08 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:56:40	CR6	CR6 SS 12/19/2024 ARV4164	L1838018-08-SB WG2473631	1	-0.003	mg/L	0.000
03/21/25 18:56:47	CR6	CR6 SS 12/19/2024 ARV4164	DUP L1838018-08 WG2473631	1	-0.001	mg/L	0.002
03/21/25 18:56:54	CR6	CR6 SS 12/19/2024 ARV4164	CCV	1	0.488	mg/L	0.451
03/21/25 18:57:00	CR6	CR6 SS 12/19/2024 ARV4164	CCB	1	0.000	mg/L	0.003

CR6 SS WetChem Prep Benchsheet

Batch: WG2473631

Analyst: ARV4164 **Prep Start Date/Time:** 03/21/25 09:59-10:00 **Prep End Date/Time:** 03/21/25 18:30 **Dig Start Date/Time:** 03/21/25 11:17:42
Dig End Date/Time: 03/21/25 12:17:01 **Dig Start Analyst:** JAS4101 **Dig End Analyst:** JAS4101 **Digest Soln. pH:** 13.24 **Phosphate Buffer pH:** 6.61
SOP: MTJL-0153 **Method:** 3060A **Balance ID:** WETBAL10 **1mL Auto Pipette SN:** VU32732 **0.5mL/1mL Auto Pipette Tips Lot#:** 25010044 **ThermoID:** 1053718
ThermoCorrectFact: -0.5 **ThermoPosition/Temp1(C°)/Temp2(C°):** C4/92/93 **10mL Pipette Lot #:** VU34865 **Transfer Pipette Lot#:** 24490085 **Filter Lot#:** 329076081
pH Strip Lot#: 10BDH4126 **Tongue Depressor Lot#:** P00638 **0.5mL Auto Pipette S/N:** NA **1mL glass pipette Lot#:** NA **Cuvette Lot#:** NA
Cal and Stds Workgroup: NA **Hotblock ID:** 2021CECW5460 **Centrifuge Tube Lot#:** NA **10mL Syringe Lot#:** 241125 **IR Gun ID:** CP52532
Thermometer Location: C4 **Tmer SN:** 240243854

ICV Standard: 25C20108 Amt. Used: 5 mL Exp. Date:03/21/25 **LCS/D Standard:** 25C20112 Amt. Used: 6 mL Exp. Date:03/21/25
MS/D Standard: 25C20112 Amt. Used: 5 mL Exp. Date:03/21/25 **Post spike:** 25C20112 Amt. Used: 0.60 mL Exp. Date:03/21/25
Digestion Solution: 25C15308 Amt. Used: 50 mL Exp. Date:09/15/25 **5N HNO3:** 25B18331 Amt. Used: 3 Exp. Date:07/07/25
Phosphate Buffer: 25B18330 Amt. Used: 0.50 mL Exp. Date:04/03/25 **H2SO4:** 25B20586 Amt. Used: 3 Exp. Date:08/20/25
Color Reagent: 25C20125 Amt. Used: 0.20 mL Exp. Date:03/27/25 **PbCrO4:** 25A21864 Amt. Used: 0.01 g Exp. Date:01/01/34
Sand: 25A29129 Amt. Used: 2.50 g Exp. Date:07/29/25 **MgCl2:** 25A31532 Amt. Used: 0.40 g Exp. Date:07/31/25
Acetone: 25C18732 Amt. Used: 0.20 mL Exp. Date:09/18/25

Sample Number	Initial Sample Wt. (g)	Final Volume (mL)	Dilution Factor	Adjusted pH	Review Analyst	Review Date
ICV	2.5	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
BLANK	2.5	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
LCS	2.5	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
1. L1838014-01	0.2541	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
2. L1838014-02	0.2525	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
3. L1838014-03	0.2520	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
4. L1838014-04	0.2512	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
5. L1838014-05	0.2501	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
6. L1838014-06	0.2503	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
7. L1838014-07	0.2534	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
8. L1838014-08	0.2535	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
9. L1838014-09	0.2516	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
10. L1838014-10	0.2529	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
11. L1838014-11	0.2531	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
12. L1838018-01	0.2500	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
13. L1838018-02	0.2513	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
14. L1838018-03	0.2529	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
15. L1838018-04	0.2534	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
16. L1838018-05	0.2513	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
17. L1838018-06	0.2533	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
18. L1838018-07	0.2531	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
19. L1838018-08	0.2510	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
DUP(L1838014-02)	0.2535	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
DUP(L1838018-08)	0.2517	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
MS(L1838014-01)	0.2513	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
MS(L1838018-01)	0.2506	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
MSD(L1838014-01)	0.2539	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
MSD(L1838018-01)	0.2508	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
Ins MS(L1838014-01)	0.2521	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57
Ins MS(L1838018-01)	0.2508	100	1	1.5-2.5	ARV4164	03/21/25 18:55:57

Comments:

Reviewed By:ARV4164 on 03/21/25 18:55:57

#	Type	Thermometer	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	IR Gun 1	1053718	-0.5	03/21/25 11:17:17	92	91.5	03/21/25 11:47:29	93	92.5	ICV, BLANK, LCS, L1838014-01, L1838018-08, L1838018-07, L1838018-06, L1838018-05, L1838018-04, L1838018-03, L1838018-02, L1838018-01, L1838014-11, L1838014-10, L1838014-09, L1838014-08, L1838014-07, L1838014-06, L1838014-05, L1838014-04, L1838014-03, L1838014-02, DUP(L1838014-02), DUP(L1838018-08), MS(L1838014-01), MS(L1838018-01), MSD(L1838014-01), MSD(L1838018-01), Ins MS(L1838014-01), Ins MS(L1838018-01)
2	IR Gun 1	1053718	-0.5	03/21/25 11:47:46	93	92.5	03/21/25 12:17:59	93	92.5	ICV, BLANK, LCS, L1838014-01, L1838014-02, L1838014-03, L1838014-04, L1838014-05, L1838014-06, L1838014-07, L1838014-08, L1838014-09, L1838014-10, L1838014-11, L1838018-01, L1838018-02, L1838018-03, L1838018-04, L1838018-05, L1838018-06, L1838018-07, L1838018-08, DUP(L1838014-02), DUP(L1838018-08), MS(L1838014-01), MS(L1838018-01), MSD(L1838014-01), MSD(L1838018-01), Ins MS(L1838014-01), Ins MS(L1838018-01)

6010D Metals (ICP)

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
CLINTON-SCHOOL-DITCH-S-SO

Lab Sample ID:	L1838018-01	**SDG:**	L1838018
Client Sample ID:	CLINTON-SCHOOL-DITCH-S-SO	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321145854	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:56
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 14:58
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	72.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.51	J	1.15	2.76
Barium	7440-39-3	54.0		0.117	0.689
Boron	7440-42-8	U		6.20	27.6
Cadmium	7440-43-9	0.217	J	0.0900	0.689
Chromium	7440-47-3	4.17		0.295	1.38
Cobalt	7440-48-4	5.22		0.244	1.38
Lead	7439-92-1	26.2		0.449	0.689
Lithium	7439-93-2	1.87	J	0.558	6.89
Selenium	7782-49-2	U		1.47	2.76
Silver	7440-22-4	0.661	J	0.175	1.38

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-02	**SDG:**	L1838018
Client Sample ID:	18-901-S-SO	**Collected Date/Time:**	03/11/25 09:00
Lab File ID:	20250321150719	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:56
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 15:07
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.55 g
Total Solids (%):	71.1	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	3.52		1.18	2.81
Barium	7440-39-3	70.2		0.120	0.703
Boron	7440-42-8	U		6.33	28.1
Cadmium	7440-43-9	U		0.0918	0.703
Chromium	7440-47-3	7.07		0.301	1.41
Cobalt	7440-48-4	5.56		0.249	1.41
Lead	7439-92-1	10.1		0.458	0.703
Lithium	7439-93-2	3.72	J	0.569	7.03
Selenium	7782-49-2	U		1.50	2.81
Silver	7440-22-4	0.286	J	0.179	1.41

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
K-18-S-SO

Lab Sample ID:	L1838018-03	**SDG:**	L1838018
Client Sample ID:	K-18-S-SO	**Collected Date/Time:**	03/11/25 09:40
Lab File ID:	20250321150902	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:56
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 15:09
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.45 g
Total Solids (%):	63.3	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.10	J	1.32	3.16
Barium	7440-39-3	125		0.134	0.789
Boron	7440-42-8	U		7.10	31.6
Cadmium	7440-43-9	0.234	J	0.103	0.789
Chromium	7440-47-3	6.14		0.338	1.58
Cobalt	7440-48-4	8.12		0.279	1.58
Lead	7439-92-1	36.1		0.515	0.789
Lithium	7439-93-2	2.54	J	0.639	7.89
Selenium	7782-49-2	U		1.69	3.16
Silver	7440-22-4	0.377	J	0.201	1.58

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-04	**SDG:**	L1838018
Client Sample ID:	P-230-S-SO	**Collected Date/Time:**	03/11/25 10:25
Lab File ID:	20250321151043	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:56
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 15:10
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	64.8	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	3.38		1.29	3.09
Barium	7440-39-3	137		0.131	0.772
Boron	7440-42-8	U		6.94	30.9
Cadmium	7440-43-9	0.307	J	0.101	0.772
Chromium	7440-47-3	8.07		0.330	1.54
Cobalt	7440-48-4	10.0		0.273	1.54
Lead	7439-92-1	17.6		0.503	0.772
Lithium	7439-93-2	3.23	J	0.625	7.72
Selenium	7782-49-2	U		1.65	3.09
Silver	7440-22-4	0.455	J	0.196	1.54

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-05	**SDG:**	L1838018
Client Sample ID:	P-350-S-SO	**Collected Date/Time:**	03/11/25 10:55
Lab File ID:	20250321152055	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:56
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 15:20
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.52 g
Total Solids (%):	66.4	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	2.20	J	1.26	3.01
Barium	7440-39-3	136		0.128	0.752
Boron	7440-42-8	U		6.77	30.1
Cadmium	7440-43-9	0.139	J	0.0983	0.752
Chromium	7440-47-3	5.60		0.322	1.50
Cobalt	7440-48-4	4.10		0.266	1.50
Lead	7439-92-1	16.1		0.491	0.752
Lithium	7439-93-2	2.76	J	0.609	7.52
Selenium	7782-49-2	U		1.61	3.01
Silver	7440-22-4	0.378	J	0.191	1.50

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-06	**SDG:**	L1838018
Client Sample ID:	NHR-S-SO	**Collected Date/Time:**	03/11/25 11:35
Lab File ID:	20250321152237	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:56
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 15:22
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.52 g
Total Solids (%):	80.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry) *mg/kg*	Qualifier	MDL (dry) *mg/kg*	RDL (dry) *mg/kg*
Arsenic	7440-38-2	3.16		1.04	2.48
Barium	7440-39-3	116		0.105	0.620
Boron	7440-42-8	8.40	J	5.58	24.8
Cadmium	7440-43-9	1.23		0.0810	0.620
Chromium	7440-47-3	4.99		0.265	1.24
Cobalt	7440-48-4	4.34		0.219	1.24
Lead	7439-92-1	29.8		0.404	0.620
Lithium	7439-93-2	3.15	J	0.502	6.20
Selenium	7782-49-2	U		1.33	2.48
Silver	7440-22-4	0.564	J	0.157	1.24

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1838018-07	**SDG:**	L1838018
Client Sample ID:	FLYASH-S-SO	**Collected Date/Time:**	03/11/25 15:08
Lab File ID:	20250321152417	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:56
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 15:24
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.50 g
Total Solids (%):	67.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	13.4		1.24	2.96
Barium	7440-39-3	2510		0.126	0.740
Boron	7440-42-8	386		6.66	29.6
Cadmium	7440-43-9	0.762		0.0966	0.740
Chromium	7440-47-3	40.8		0.317	1.48
Cobalt	7440-48-4	20.1		0.262	1.48
Lead	7439-92-1	21.9		0.482	0.740
Lithium	7439-93-2	25.3		0.599	7.40
Selenium	7782-49-2	U		1.58	2.96
Silver	7440-22-4	0.698	J	0.188	1.48

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-S-SO

Lab Sample ID:	L1838018-08	**SDG:**	L1838018
Client Sample ID:	MONTROSE-LAKE-S-SO	**Collected Date/Time:**	03/11/25 13:30
Lab File ID:	20250321152559	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:56
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 15:25
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.47 g
Total Solids (%):	73.0	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	5.38		1.15	2.74
Barium	7440-39-3	84.1		0.116	0.685
Boron	7440-42-8	U		6.16	27.4
Cadmium	7440-43-9	0.661	J	0.0894	0.685
Chromium	7440-47-3	8.08		0.293	1.37
Cobalt	7440-48-4	9.76		0.242	1.37
Lead	7439-92-1	18.0		0.446	0.685
Lithium	7439-93-2	2.08	J	0.555	6.85
Selenium	7782-49-2	U		1.47	2.74
Silver	7440-22-4	0.402	J	0.174	1.37

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189527-1	**SDG:**	L1838018
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250321145530	**Received Date/Time:**	_____
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:55
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 14:55
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**MDL**	**RDL**
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		0.837	2.00
Barium	7440-39-3	0.0922	J	0.0850	0.500
Boron	7440-42-8	U		4.50	20.0
Cadmium	7440-43-9	U		0.0653	0.500
Chromium	7440-47-3	U		0.214	1.00
Cobalt	7440-48-4	U		0.177	1.00
Lead	7439-92-1	U		0.326	0.500
Lithium	7439-93-2	U		0.405	5.00
Selenium	7782-49-2	U		1.07	2.00
Silver	7440-22-4	U		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189527-2	**SDG:**	L1838018
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250321145713	**Received Date/Time:**	_____
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:55
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 14:57
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.48 g
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	105		0.837	2.00
Barium	7440-39-3	108		0.0850	0.500
Boron	7440-42-8	103		4.50	20.0
Cadmium	7440-43-9	104		0.0653	0.500
Chromium	7440-47-3	103		0.214	1.00
Cobalt	7440-48-4	99.4		0.177	1.00
Lead	7439-92-1	102		0.326	0.500
Lithium	7439-93-2	106		0.405	5.00
Selenium	7782-49-2	103		1.07	2.00
Silver	7440-22-4	20.4		0.127	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189527-5	**SDG:**	L1838018
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321150356	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:56
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 15:03
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.47 g
Total Solids (%):	72.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	132		1.15	2.76
Barium	7440-39-3	170		0.117	0.689
Boron	7440-42-8	124		6.20	27.6
Cadmium	7440-43-9	125		0.0900	0.689
Chromium	7440-47-3	128		0.295	1.38
Cobalt	7440-48-4	147		0.244	1.38
Lead	7439-92-1	149		0.449	0.689
Lithium	7439-93-2	149		0.558	6.89
Selenium	7782-49-2	125		1.47	2.76
Silver	7440-22-4	26.6		0.175	1.38

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189527-6	**SDG:**	L1838018
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321150537	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:56
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 15:05
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.47 g
Total Solids (%):	72.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	143		1.15	2.76
Barium	7440-39-3	194		0.117	0.689
Boron	7440-42-8	136		6.20	27.6
Cadmium	7440-43-9	137		0.0900	0.689
Chromium	7440-47-3	144		0.295	1.38
Cobalt	7440-48-4	162		0.244	1.38
Lead	7439-92-1	171		0.449	0.689
Lithium	7439-93-2	165		0.558	6.89
Selenium	7782-49-2	132		1.47	2.76
Silver	7440-22-4	28.8		0.175	1.38

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189527-4	**SDG:**	L1838018
Client Sample ID:	PS	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321150215	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:56
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 15:02
Dilution Factor:	1	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	72.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	141		1.15	2.76
Barium	7440-39-3	189		0.117	0.689
Boron	7440-42-8	135		6.20	27.6
Cadmium	7440-43-9	134		0.0900	0.689
Chromium	7440-47-3	138		0.295	1.38
Cobalt	7440-48-4	147		0.244	1.38
Lead	7439-92-1	166		0.449	0.689
Lithium	7439-93-2	160		0.558	6.89
Selenium	7782-49-2	137		1.47	2.76
Silver	7440-22-4	26.8		0.175	1.38

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4189527-3	**SDG:**	L1838018
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 08:10
Lab File ID:	20250321150034	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP16	**Preparation Date/Time:**	03/21/25 09:56
Analytical Batch:	WG2473544	**Analysis Date/Time:**	03/21/25 15:00
Dilution Factor:	5	**Prep Method:**	3051
Analytical Method:	6010D	**Sample Vol Used:**	_____
Matrix:	Solid	**Initial Wt/Vol:**	0.49 g
Total Solids (%):	72.6	**Final Wt/Vol:**	50 mL

Analyte	CAS	Result (dry)	Qualifier	MDL (dry)	RDL (dry)
		mg/kg		*mg/kg*	*mg/kg*
Arsenic	7440-38-2	U		5.77	13.8
Barium	7440-39-3	56.2		0.585	3.44
Boron	7440-42-8	U		31.0	138
Cadmium	7440-43-9	U		0.450	3.44
Chromium	7440-47-3	4.75	J	1.47	6.89
Cobalt	7440-48-4	4.47	J	1.22	6.89
Lead	7439-92-1	27.4		2.25	3.44
Lithium	7439-93-2	5.54	J	2.80	34.4
Selenium	7782-49-2	U		7.37	13.8
Silver	7440-22-4	U		0.875	6.89

CALIBRATION VERIFICATION

SDG:	L1838018	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A
Concentration Units:	mg/l		

		ICV				**ICVLL**				**CCV**		
Sample ID:		ICP160321250855				ICP160321250904				ICP160321251452		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.02498	102	1.750000	0.01	0.01079751	108	25.100000	1	1.005084	101	1.500000
BARIUM	1	1.029953	103	0.823000	0.0050	0.005599951	112	4.410000	0.50	0.5125419	103	0.460000
BORON	1	0.9993199	99.90	0.745000	0.20	0.2031552	102	1.650000	1	1.009829	101	0.570000
CADMIUM	1	1.029156	103	1.150000	0.0020	0.001744789	87.20	8.360000	0.50	0.4955094	99.10	0.510000
CHROMIUM	1	0.9987973	99.90	1.130000	0.01	0.00938971	93.90	9.270000	1	0.9914771	99.10	0.618000
COBALT	1	0.9537096	95.40	1.010000	0.01	0.00905538	90.60	20.600000	1	0.9828805	98.30	0.286000
LEAD	1	0.9998232	100	1.040000	0.0050	0.005773866	115	83.800000	0.50	0.4932257	98.60	0.608000
LITHIUM	1	1.001239	100	1.250000	0.0150	0.01442687	96.20	30.100000	1	1.024343	102	0.581000
SELENIUM	1	0.9989623	99.90	0.373000	0.01	0.01071712	107	18.000000	1	1.000476	100	1.230000
SILVER	1	0.9815322	98.20	0.826000	0.0050	0.005941825	119	10.500000	0.50	0.5181162	104	1.020000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

CALIBRATION VERIFICATION

SDG:	L1838018	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A
Concentration Units:	mg/l		

		CCV				CCV				CCVLL		
Sample ID:		ICP160321251512				ICP160321251532-2				ICP160321251543		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.015459	102	1.050000	1	1.006338	101	0.452000	0.01	0.01033627	103	47.700000
BARIUM	0.50	0.5150677	103	1.060000	0.50	0.5074831	101	1.050000	0.0050	0.00548305	110	5.360000
BORON	1	1.013651	101	0.788000	1	1.013753	101	0.378000	0.20	0.2005224	100	0.311000
CADMIUM	0.50	0.5011113	100	0.324000	0.50	0.4938755	98.80	0.637000	0.0020	0.001955071	97.80	26.800000
CHROMIUM	1	1.004457	100	0.482000	1	0.9921237	99.20	0.798000	0.01	0.009837807	98.40	15.500000
COBALT	1	0.9828843	98.30	0.008630	1	0.9801235	98	0.804000	0.01	0.007897482	79	3.290000
LEAD	0.50	0.4968537	99.40	0.377000	0.50	0.491224	98.20	0.673000	0.0050	0.005150626	103	30.000000
LITHIUM	1	1.029665	103	0.496000	1	1.023178	102	0.732000	0.0150	0.01899758	127	32.000000
SELENIUM	1	1.002047	100	2.650000	1	0.9877583	98.80	0.679000	0.01	-0.001430389	0	341.000000
SILVER	0.50	0.5165546	103	1.730000	0.50	0.5165961	103	0.674000	0.0050	0.006398924	128	14.200000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

CALIBRATION VERIFICATION

SDG:	L1838018	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A
Concentration Units:	mg/l		

		CCVLL				**CCVLL**		
Sample ID:		ICP160321251552				ICP160321251539		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	0.01	0.01241518	124	49.400000				
BARIUM	0.0050	0.005425338	109	0.767000				
BORON	0.20	0.2053369	103	1.820000				
CADMIUM	0.0020	0.001559242	78	51.500000				
CHROMIUM	0.01	0.01104435	110	2.950000	0.01	-0.003689649	0	103.000000
COBALT	0.01	0.008823406	88.20	12.400000	0.01	-0.007394036	0	122.000000
LEAD	0.0050	0.005269866	105	47.800000	0.0050	0.004000752	80	130.000000
LITHIUM	0.0150	0.01950312	130	18.400000				
SELENIUM	0.01	0.007672601	76.70	82.400000				
SILVER	0.0050	0.006428095	129	26.100000	0.0050	-0.007427886	0	112.000000

ICV Limits: 90 - 110 ICVLL Limits: 80 - 120 CCV Limits: 90 - 110 CCVLL Limits: 50 - 150

SDG:	L1838018	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250321085943		20250321145346		20250321145530		20250321151405	
Analyte	mg/l		mg/l		mg/kg		mg/l	
ARSENIC	-0.0006736891	U	0.002049113	U	U		0.001461279	U
BARIUM	-0.00005799971	U	0.0002927688	U	0.0922	J	0.0006885475	U
BORON	-0.00342413	U	0.0003542761	U	U		-0.003495633	U
CADMIUM	0.0001307474	U	0.0002534351	U	U		-0.0009906846	U
CHROMIUM	0.0004348755	U	0.0002567625	U	U		0.0004650716	U
COBALT	0.0005244144	U	0.0003227652	U	U		-0.0007874229	U
LEAD	0.00120905	U	0.0003203444	U	U		0.002047218	U
LITHIUM	0.0003221891	U	0.004378913	U	U		0.005119657	U
SELENIUM	-0.002132518	U	-0.004498764	U	U		0.002620526	U
SILVER	0.0004579817	U	0.0006530615	U	U		0.0004171408	U

SDG:	L1838018	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20250321153431-2	
Analyte	mg/l	
ARSENIC	0.0004725095	U
BARIUM	0.0001801797	U
BORON	0.001453506	U
CADMIUM	-0.00008529326	U
CHROMIUM	0.0004216561	U
COBALT	0.0004104694	U
LEAD	-0.0005742549	U
LITHIUM	-0.0006233807	U
SELENIUM	0.001513083	U
SILVER	0.0003063083	U

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1838018	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/21/25 09:06
Instrument Run:	032125ICP16A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	509.1013	102	500	508.1369	102
ANTIMONY	0	0.006447154		0.50	0.495221	99
ARSENIC	0	-0.004907903		0.50	0.4935868	98.70
BARIUM	0	0.0018303		0.50	0.5033935	101
BERYLLIUM	0	0.0007008089		0.50	0.5020147	100
BORON	0	-0.03529493		1	0.9730376	97.30
CADMIUM	0	-0.0007914524		1	1.001625	100
CALCIUM	500	511.6463	102	500	512.776	103
CERIUM	0	0.08687797		0	0.1076273	
CHROMIUM	0	-0.005823406		0.50	0.4835681	96.70
COBALT	0	0.001132004		0.50	0.5082139	102
COPPER	0	0.01139299		0.50	0.5248616	105
IRON	200	204.2666	102	200	203.827	102
LANTHANUM	0	-0.001980646		0	-0.006128269	
LEAD	0	-0.00001767799		1	1.003979	100
LITHIUM	0	0.01022379		0	0.003950866	
MAGNESIUM	500	524.8626	105	500	522.573	105
MANGANESE	0	-0.008460159		0.50	0.5000247	100
MOLYBDENUM	0	0.001139825		0.50	0.4905902	98.10
NICKEL	0	0.00004664138		1	1.016567	102
PHOSPHORUS	0	0.007550403		0	0.002309558	
POTASSIUM	0	0.06504105		0	0.05152367	
SELENIUM	0	-0.0006311484		0.50	0.4891785	97.80
SILICON	0	-0.002068487		1	0.9595425	96
SILVER	0	0.004693209		1	1.00145	100
SODIUM	0	0.02404681		0	0.06280299	
STRONTIUM	0	0.005731087		0	0.006023902	
SULFUR	0	-0.004359289		0	0.004478473	
THALLIUM	0	-0.008104253		0.50	0.4847077	96.90
TIN	0	-0.0009146921		0.50	0.4994098	99.90
TITANIUM	0	-0.003497506		0.50	0.4897595	98
VANADIUM	0	0.007661386		0.50	0.4921151	98.40
ZINC	0	0.0109761		1	1.019194	102

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1838018	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	03/21/25 15:58
Instrument Run:	032125ICP16A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	510.7923	102	500	509.9926	102
ANTIMONY	0	0.005589612		0.50	0.4857457	97.10
ARSENIC	0	0.01085256		0.50	0.5065857	101
BARIUM	0	0.002219882		0.50	0.5016722	100
BERYLLIUM	0	0.0006624589		0.50	0.5059382	101
BORON	0	-0.03585051		1	0.9782687	97.80
CADMIUM	0	-0.001678091		1	0.9761794	97.60
CALCIUM	500	516.382	103	500	513.1524	103
CERIUM	0	-0.05867328		0	-0.06015679	
CHROMIUM	0	-0.003467799		0.50	0.4781931	95.60
COBALT	0	-0.0002812261		0.50	0.508864	102
COPPER	0	0.01321457		0.50	0.5193552	104
IRON	200	203.5232	102	200	202.395	101
LANTHANUM	0	0.00339477		0	-0.002720977	
LEAD	0	0.002625142		1	0.9784631	97.80
LITHIUM	0	0.001072101		0	0.00351023	
MAGNESIUM	500	527.6024	106	500	524.521	105
MANGANESE	0	-0.007410586		0.50	0.499555	99.90
MOLYBDENUM	0	0.002875937		0.50	0.4768171	95.40
NICKEL	0	0.001347976		1	1.003753	100
PHOSPHORUS	0	0.002587286		0	0.004151974	
POTASSIUM	0	-0.01520476		0	-0.06919999	
SELENIUM	0	-0.01461459		0.50	0.4918897	98.40
SILICON	0	0.003685884		1	0.9283568	92.80
SILVER	0	0.005154903		1	0.9435174	94.40
SODIUM	0	-0.0681063		0	-0.0369445	
STRONTIUM	0	0.006022719		0	0.006160362	
SULFUR	0	-0.008632139		0	-0.005977017	
THALLIUM	0	-0.006196374		0.50	0.4638389	92.80
TIN	0	-0.0001717014		0.50	0.4870718	97.40
TITANIUM	0	-0.004286111		0.50	0.491764	98.40
VANADIUM	0	0.005867904		0.50	0.492972	98.60
ZINC	0	0.0113127		1	1.016482	102

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1838018-01,02,03,04,05,06,07,08

SAMPLE NO.:
R4189527-5
R4189527-6

MS Sample / File ID: R4189527-5 / 20250321150356
MSD Sample / File ID: R4189527-6 / 20250321150537
OS Sample / File ID: L1838018-01 / 20250321145854
Instrument ID: ICP16
Analytical Method: 6010D

SDG: L1838018
Analytical Batch: WG2473544
Matrix: Solid

Analyte	Spike Amount (dry)	OS Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*	*mg/kg*	*%*	*%*		*%*	*%*	*%*
Arsenic	138	2.51	132	143	94.1	102	1	75.0 - 125	7.60	20
Barium	138	54.0	170	194	84.3	102	1	75.0 - 125	13.3	20
Boron	138	U	124	136	89.7	98.8	1	75.0 - 125	9.60	20
Cadmium	138	0.217	125	137	90.5	99.6	1	75.0 - 125	9.56	20
Chromium	138	4.17	128	144	90.2	101	1	75.0 - 125	11.2	20
Cobalt	138	5.22	147	162	103	114	1	75.0 - 125	10.0	20
Lead	138	26.2	149	171	89.5	105	1	75.0 - 125	13.4	20
Lithium	138	1.87	149	165	107	118	1	75.0 - 125	10.3	20
Selenium	138	U	125	132	90.4	95.8	1	75.0 - 125	5.77	20
Silver	27.6	0.661	26.6	28.8	94.3	102	1	75.0 - 125	7.63	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

POST-DIGESTION / DISTILLATION SPIKE SAMPLE RECOVERY

L1838018-01,02,03,04,05,06,07,08

SAMPLE NO.: R4189527-4

PS Sample / File ID:	R4189527-4 / 20250321150215	**SDG:**	L1838018
OS Sample / File ID:	L1838018-01 / 20250321145854	**Analytical Batch:**	WG2473544
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount (dry)	OS Result (dry)	PD Result (dry)	DS Result (dry)	PD Rec.	DS Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*	*mg/kg*		%	%		%	%	%
Arsenic	138	2.51	141		101		1	80.0 - 120		
Barium	138	54.0	189		98.1		1	80.0 - 120		
Boron	138	U	135		98.2		1	80.0 - 120		
Cadmium	138	0.217	134		97.2		1	80.0 - 120		
Chromium	138	4.17	138		97.2		1	80.0 - 120		
Cobalt	138	5.22	147		103		1	80.0 - 120		
Lead	138	26.2	166		101		1	80.0 - 120		
Lithium	138	1.87	160		115		1	80.0 - 120		
Selenium	138	U	137		99.5		1	80.0 - 120		
Silver	27.6	0.661	26.8		94.7		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1838018-01,02,03,04,05,06,07,08

SAMPLE NO.:
R4189527-2

LCS Sample / File ID:	R4189527-2 / 20250321145713	**SDG:**	L1838018
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2473544
Instrument ID:	ICP16	**Dilution Factor:**	1
Analytical Method:	6010D	**Matrix:**	Solid

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/kg	*mg/kg*		*%*	*%*	*%*	*%*	*%*
Arsenic	100	105		105		80.0 - 120		
Barium	100	108		108		80.0 - 120		
Boron	100	103		103		80.0 - 120		
Cadmium	100	104		104		80.0 - 120		
Chromium	100	103		103		80.0 - 120		
Cobalt	100	99.4		99.4		80.0 - 120		
Lead	100	102		102		80.0 - 120		
Lithium	100	106		106		80.0 - 120		
Selenium	100	103		103		80.0 - 120		
Silver	20.0	20.4		102		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4189527-3 / 20250321150034	**SDG:**	L1838018
OS Sample / File ID:	L1838018-01 / 20250321145854	**Analytical Batch:**	WG2473544
Lab File ID:	20250321150034	**Dilution Factor:**	5
Instrument ID:	ICP16	**Matrix:**	Solid
Analytical Method:	6010D		

Analyte	**OS Result (dry)**	**SD Result (dry)**	**RPD**	**RPD Limits**
	mg/kg	*mg/kg*	*%*	*%*
Arsenic	2.51	U	0.000	10
Barium	54.0	56.2	4.06	10
Boron	U	U	0.000	10
Cadmium	0.217	U	0.000	10
Chromium	4.17	4.75	13.8	10
Cobalt	5.22	4.47	14.4	10
Lead	26.2	27.4	4.42	10
Lithium	1.87	5.54	0.000	10
Selenium	U	U	0.000	10
Silver	0.661	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1838018-01,02,03,04,05,06,07,08
Matrix: Solid
Analytical Method: 6010D
Prep Method: 3051

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/kg	*mg/kg*
Cobalt	7440-48-4		228.6160	0.1770	1
Lead	7439-92-1		220.3530	0.3260	0.50
Lithium	7439-93-2		670.7840	0.4050	5
Selenium	7782-49-2		196.09	1.07	2
Silver	7440-22-4		328.0680	0.1270	1
Arsenic	7440-38-2		189.0420	0.8370	2
Barium	7440-39-3		233.5270	0.0850	0.50
Boron	7440-42-8		249.6780	4.50	20
Cadmium	7440-43-9		228.8020	0.0653	0.50
Chromium	7440-47-3		267.7160	0.2140	1

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1838018	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Date:**	02/03/25 09:04

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	200
POTASSIUM	500
SELENIUM	10
SILICON	100
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

ANALYSIS LOG

SDG:	L1838018	**Analytical Method:**	6010D
Instrument ID:	ICP16	**Calibration Start Date:**	03/21/25 08:27
Analytical Run:	032125ICP16A	**Calibration End Date:**	03/21/25 08:37

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP160321250826	20250321082614	03/21/25 08:26		
CAL	STD1	20250321082752	03/21/25 08:27		
CAL	STD2	20250321082930	03/21/25 08:29		
CAL	STD3	20250321083108	03/21/25 08:31		
CAL	STD4	20250321083245	03/21/25 08:32		
CAL	STD5	20250321083423	03/21/25 08:34		
CAL	STD6	20250321083600	03/21/25 08:36		
ICV	ICP160321250855	20250321085537	03/21/25 08:55		
ICB	ICP160321250859	20250321085943	03/21/25 08:59		
ICVLL	ICP160321250904	20250321090436	03/21/25 09:04		
ICSA	ICP160321250906	20250321090614	03/21/25 09:06		
ICSAB	ICP160321250907	20250321090752	03/21/25 09:07		
CCV	ICP160321251452	20250321145205	03/21/25 14:52		
CCB	ICP160321251453	20250321145346	03/21/25 14:53		
BLANK	R4189527-1	20250321145530	03/21/25 14:55	1	WG2473544
LCS	R4189527-2	20250321145713	03/21/25 14:57	1	WG2473544
CLINTON-SCHOOL-DITCH-S-SO	L1838018-01	20250321145854	03/21/25 14:58	1	WG2473544
SD	R4189527-3	20250321150034	03/21/25 15:00	5	WG2473544
PS	R4189527-4	20250321150215	03/21/25 15:02	1	WG2473544
MS	R4189527-5	20250321150356	03/21/25 15:03	1	WG2473544
MSD	R4189527-6	20250321150537	03/21/25 15:05	1	WG2473544
18-901-S-SO	L1838018-02	20250321150719	03/21/25 15:07	1	WG2473544
K-18-S-SO	L1838018-03	20250321150902	03/21/25 15:09	1	WG2473544
P-230-S-SO	L1838018-04	20250321151043	03/21/25 15:10	1	WG2473544
CCV	ICP160321251512	20250321151224	03/21/25 15:12		
CCB	ICP160321251514	20250321151405	03/21/25 15:14		
L1838104-01	L1838104-01	20250321151730	03/21/25 15:17	1	WG2473428
P-350-S-SO	L1838018-05	20250321152055	03/21/25 15:20	1	WG2473544
NHR-S-SO	L1838018-06	20250321152237	03/21/25 15:22	1	WG2473544
FLYASH-S-SO	L1838018-07	20250321152417	03/21/25 15:24	1	WG2473544
MONTROSE-LAKE-S-SO	L1838018-08	20250321152559	03/21/25 15:25	1	WG2473544
L1836458-07	L1836458-07	20250321153105	03/21/25 15:31	1	WG2471819
CCV	ICP160321251532-2	20250321153249-2	03/21/25 15:32		
CCB	ICP160321251534-2	20250321153431-2	03/21/25 15:34		
CCVLL	ICP160321251539	20250321153921	03/21/25 15:39		
CCVLL	ICP160321251543	20250321154343	03/21/25 15:43		
CCVLL	ICP160321251552	20250321155226	03/21/25 15:52		
ICSA	ICP160321251558	20250321155850	03/21/25 15:58		
ICSAB	ICP160321251600	20250321160033	03/21/25 16:00		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838018	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.009450952	94.50	0.20	.2024679	101
BARIUM	0.0050	.005525024	111	0.10	.1009626	101
BORON	0.20	.2006858	100			
CADMIUM	0.0020	.001846044	92.30	0.10	.1003898	100
CHROMIUM	0.01	.009238352	92.40	0.20	.1931434	96.60
COBALT	0.01	.008028498	80.30	0.20	.184132	92.10
LEAD	0.0050	.005306873	106	0.10	.09844949	98.40
LITHIUM	0.0150	.01743911	116	0.20	.1861196	93.10
SELENIUM	0.01	.008380011	83.80	0.20	.2045207	102
SILVER	0.0050	.005412618	108	0.10	.09865973	98.70
File ID:		20250321082752			20250321082930	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838018	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.4118118	103	1	.967025	96.70
BARIUM	0.20	.2061333	103	0.50	.4837596	96.80
BORON	0.40	.4037297	101	1	.946158	94.60
CADMIUM	0.20	.2063865	103	0.50	.4797405	95.90
CHROMIUM	0.40	.3991954	99.80	1	.9358874	93.60
COBALT	0.40	.3853479	96.30	1	.92271	92.30
LEAD	0.20	.2011952	101	0.50	.4749542	95
LITHIUM	0.40	.3846565	96.20	1	.9284183	92.80
SELENIUM	0.40	.4096343	102	1	.9881575	98.80
SILVER	0.20	.2047549	102	0.50	.4846204	96.90
File ID:		20250321083108			20250321083245	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1838018	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.02905	101	4	3.992415	99.80
BARIUM	1	1.010855	101	2	1.99797	99.90
BORON	2	2.008322	100	4	4.008892	100
CADMIUM	1	1.002167	100	2	2.003323	100
CHROMIUM	2	1.991019	99.60	4	4.020944	101
COBALT	2	1.984644	99.20	4	4.029264	101
LEAD	1	1.003098	100	2	2.00467	100
LITHIUM	2	2.040229	102			
SELENIUM	2	2.047754	102	4	3.977898	99.40
SILVER	1	1.006216	101	2	2.000327	100
File ID:		20250321083423			20250321083600	

16A-IN

INITIAL CALIBRATION

SDG:	L1838018	**Calibration (begin) date/time:**	03/21/25 08:27
Instrument ID:	ICP16	**Calibration (end) date/time:**	03/21/25 08:37
Analytical Method:	6010D	**Analytical Run:**	032125ICP16A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999917	197.1366	1.067309
BARIUM	233.527	8	5	0.999934	6014.184	-8.157375
BORON	249.678	8	5	0.999869	208.6249	-0.152962
CADMIUM	228.802	8	5	0.999928	2125.431	8.82258
CHROMIUM	267.716	8	5	0.999821	2329.913	-8.855238
COBALT	228.616	8	5	0.999713	1087.384	-6.514733
LEAD	220.353	8	5	0.999898	464.8921	0.005844
LITHIUM	670.784	8	5	0.998841	1045.406	-7.197886
SELENIUM	196.09	8	5	0.999883	89.6181	0.057566
SILVER	328.068	8	5	0.999954	3920.261	-17.79079

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

Sample ID: CALBLK Units: mg/l
Analyzed: 03/21/25 08:26 Sequence: 2 Standard ID: 25C17417

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6424.829	6395.653	6431.202	6447.633
YTTRIUM	360.073	Axial	62336.09	61924.77	63044.70	62038.79
YTTRIUM	360.073	Radial	4757.437	4750.504	4755.871	4765.938
INDIUM	230.606	Axial	1369.724	1358.868	1382.836	1367.468

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	-4.44481	-3.934405	-4.048072	-5.351959
ANTIMONY	206.833	Axial	0.2867719	1.368819	-1.054423	0.5459194
ARSENIC	189.042	Axial	1.069036	0.2284526	1.694161	1.284494
BARIUM	233.527	Axial	-8.15661	-9.128738	-5.851080	-9.490024
BERYLLIUM	313.042	Radial	2.915721	1.665842	5.567904	1.513418
BORON	249.678	Radial	-0.1529957	-0.08204279	-0.2134186	-0.1635257
CADMIUM	228.802	Axial	8.821388	9.074593	9.302446	8.087124
CALCIUM	317.933	Radial	12.14960	11.91329	10.98988	13.54564
CALCIUM	373.690	Radial	-3.06539	-2.595305	-5.251197	-1.349677
CERIUM	535.353	Radial	18.80084	14.18930	23.17141	19.04181
CHROMIUM	267.716	Axial	-8.84858	-11.67283	-7.579920	-7.293017
COBALT	228.616	Axial	-6.51179	-6.777566	-5.964110	-6.793721
COPPER	324.754	Axial	-10.9182	-9.692843	-10.35849	-12.70334
IRON	259.940	Radial	1.323707	0.7016213	2.319642	0.9498581
IRON	271.441	Radial	0.08101619	-0.2449515	0.5050385	-0.01703843
LANTHANUM	333.749	Radial	-4.34129	-4.188351	-4.022967	-4.812578
LEAD	220.353	Axial	0.01339764	-1.085656	1.423403	-0.2975537
LITHIUM	670.784	Radial	-7.19855	-4.614650	-10.19626	-6.784755
MAGNESIUM	279.079	Radial	-2.79978	-2.726832	-3.629380	-2.043147
MANGANESE	257.610	Axial	-13.5179	-16.00128	-11.40448	-13.14815
MOLYBDENUM	202.030	Axial	0.5363174	0.7372886	-0.4088458	1.280509
NICKEL	231.604	Axial	1.293252	0.6429618	1.972217	1.264577
PHOSPHORUS	177.495	Axial	1.142060	1.727614	0.7998718	0.8986945
POTASSIUM	766.490	Radial	-20.8813	-26.47564	-18.73758	-17.43089
SELENIUM	196.090	Axial	0.05815937	-0.2291777	0.2724611	0.1311947
SILICON	251.611	Axial	10.39873	10.46849	9.168411	11.55928
SILVER	328.068	Axial	-17.7746	-21.19286	-15.37203	-16.75919
SODIUM	589.592	Radial	-5.87708	-3.181940	-8.418125	-6.031183
SODIUM	818.326	Radial	6.167551	4.252190	8.466132	5.784332
STRONTIUM	421.552	Radial	6.974523	4.621881	10.41294	5.888747
SULFUR	182.034	Axial	4.026892	4.231021	3.869388	3.980266
THALLIUM	190.856	Axial	-0.8048032	-0.5227779	-0.5342913	-1.357340
TIN	189.989	Axial	-0.6106080	-0.4356626	-0.7221811	-0.6739803
TITANIUM	334.941	Radial	-2.88401	-3.596819	-1.864618	-3.190600
VANADIUM	292.402	Radial	-1.56583	1.834154	-3.935609	-2.596062
ZINC	206.200	Axial	3.589924	5.051490	1.883372	3.834910

Sample ID: STD1 Units: mg/l
Analyzed: 03/21/25 08:27 Sequence: 3 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6432.950	6524.908	6401.803	6372.140
YTTRIUM	360.073	Axial	62056.02	62513.13	62203.54	61451.38
YTTRIUM	360.073	Radial	4749.723	4769.699	4755.866	4723.605
INDIUM	230.606	Axial	1338.354	1349.427	1340.798	1324.836

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	6.200999	7.095221	6.775236	4.732540
ANTIMONY	206.833	Axial	1.569521	1.224318	1.167964	2.316280
ARSENIC	189.042	Axial	2.930386	2.382507	3.487799	2.920853
BARIUM	233.527	Axial	25.08455	22.72164	26.99567	25.53635
BERYLLIUM	313.042	Radial	36.12605	37.91883	34.58401	35.87531
BORON	249.678	Radial	41.64872	41.12787	43.24925	40.56904
CADMIUM	228.802	Axial	12.76019	12.56668	13.22672	12.48719
CALCIUM	317.933	Radial	214.0502	215.4938	219.6161	207.0408
CHROMIUM	267.716	Axial	12.68217	12.69904	11.41777	13.92969
COBALT	228.616	Axial	2.156904	1.301374	1.580731	3.588607
COPPER	324.754	Axial	39.17995	38.59421	37.02189	41.92375
IRON	259.940	Radial	27.64438	28.92819	27.23229	26.77265
LEAD	220.353	Axial	2.415023	2.231770	2.404710	2.608590
LITHIUM	670.784	Radial	11.02488	15.29539	9.293584	8.485669
MAGNESIUM	279.079	Radial	85.60847	86.10511	84.84821	85.87211
MANGANESE	257.610	Axial	194.5360	197.7654	192.8585	192.9842
MOLYBDENUM	202.030	Axial	4.057809	5.010582	2.948458	4.214389
NICKEL	231.604	Axial	9.610907	9.702970	9.525950	9.603803
PHOSPHORUS	177.495	Axial	19.99240	19.44649	20.38073	20.14999
POTASSIUM	766.490	Radial	81.32906	83.45583	77.42248	83.10888
SELENIUM	196.090	Axial	0.8066988	0.5186815	0.4628996	1.438515
SILICON	251.611	Axial	207.4242	206.1249	209.9785	206.1691
SILVER	328.068	Axial	3.393386	2.873434	-0.5732989	7.880023
SODIUM	589.592	Radial	375.8394	379.5470	375.3674	372.6039
STRONTIUM	421.552	Radial	112.3967	113.8570	114.5555	108.7776
SULFUR	182.034	Axial	52.59487	53.20108	51.96951	52.61400
THALLIUM	190.856	Axial	0.8393323	0.4092386	1.867231	0.2415271
TIN	189.989	Axial	19.24580	19.33619	18.43702	19.96421
TITANIUM	334.941	Radial	80.09392	79.93718	79.66636	80.67823
VANADIUM	292.402	Radial	10.53250	10.81689	9.608843	11.17178
ZINC	206.200	Axial	128.7704	128.5442	128.2273	129.5399

Sample ID: STD2 Units: mg/l
Analyzed: 03/21/25 08:29 Sequence: 4 Standard ID: 25C19782

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6119.234	6056.828	6067.668	6233.206
YTTRIUM	360.073	Axial	58820.80	58121.73	58705.16	59635.50
YTTRIUM	360.073	Radial	4632.701	4681.332	4659.904	4556.868
INDIUM	230.606	Axial	1248.749	1238.880	1246.142	1261.227

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	108.0358	109.7872	108.1365	106.1836
ANTIMONY	206.833	Axial	14.90608	13.35202	15.42859	15.93763
ARSENIC	189.042	Axial	39.02740	39.95280	37.78685	39.34256
BARIUM	233.527	Axial	570.5423	563.6534	568.4521	579.5214
BERYLLIUM	313.042	Radial	613.2055	614.4797	619.6223	605.5145
CADMIUM	228.802	Axial	211.6046	211.1655	210.3418	213.3066
CALCIUM	317.933	Radial	1998.512	1978.236	2045.884	1971.417
CHROMIUM	267.716	Axial	420.2105	410.1849	418.1272	432.3193
COBALT	228.616	Axial	176.6040	175.5502	174.5154	179.7462
COPPER	324.754	Axial	864.4999	850.3099	865.7962	877.3935
IRON	259.940	Radial	516.3473	508.4194	526.1949	514.4276
LEAD	220.353	Axial	41.73446	41.00071	41.49130	42.71136
LITHIUM	670.784	Radial	182.4531	180.8697	186.8341	179.6555
MAGNESIUM	279.079	Radial	166.7076	168.5867	167.7202	163.8158
MANGANESE	257.610	Axial	4025.951	3984.141	4004.693	4089.019
MOLYBDENUM	202.030	Axial	32.81555	33.29871	31.78748	33.36046
NICKEL	231.604	Axial	168.8406	168.6101	165.5971	172.3146
PHOSPHORUS	177.495	Axial	37.33936	37.31106	37.10965	37.59736
POTASSIUM	766.490	Radial	903.9409	908.6905	914.5281	888.6040
SELENIUM	196.090	Axial	17.51971	17.19941	16.63503	18.72470
SILICON	251.611	Axial	410.5769	382.1591	386.3964	463.1751
SILVER	328.068	Axial	348.1531	345.0098	349.7181	349.7313
SODIUM	589.592	Radial	3558.911	3583.898	3582.809	3510.028
STRONTIUM	421.552	Radial	2073.224	2052.249	2117.786	2049.638
THALLIUM	190.856	Axial	37.33314	36.78040	37.08609	38.13293
TIN	189.989	Axial	38.44694	38.64723	38.10303	38.59055
TITANIUM	334.941	Radial	315.2870	316.5396	317.2146	312.1068
VANADIUM	292.402	Radial	115.0034	115.1651	117.6520	112.1932
ZINC	206.200	Axial	466.0173	470.4622	462.3165	465.2731

Sample ID: STD3 Units: mg/l
Analyzed: 03/21/25 08:31 Sequence: 5 Standard ID: 25C19783

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6168.644	6138.412	6193.755	6173.766
YTTRIUM	360.073	Axial	59269.58	58778.03	59627.36	59403.36
YTTRIUM	360.073	Radial	4628.392	4618.269	4638.311	4628.597
INDIUM	230.606	Axial	1247.037	1232.356	1262.706	1246.048

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	216.3137	219.0183	216.2993	213.6234
ANTIMONY	206.833	Axial	28.52086	28.40791	27.94056	29.21411
ARSENIC	189.042	Axial	78.96785	79.57690	78.31465	79.01201
BARIUM	233.527	Axial	1182.475	1172.664	1195.633	1179.129
BERYLLIUM	313.042	Radial	1251.905	1253.670	1253.217	1248.828
BORON	249.678	Radial	81.79547	80.38306	81.92845	83.07489
CADMIUM	228.802	Axial	429.6442	426.8491	434.0636	428.0198
CALCIUM	317.933	Radial	4109.034	4097.387	4123.312	4106.403
CHROMIUM	267.716	Axial	884.5409	867.3674	901.4331	884.8221
COBALT	228.616	Axial	375.5424	373.8283	379.0577	373.7412
COPPER	324.754	Axial	1778.072	1768.432	1771.924	1793.859
IRON	259.940	Radial	1031.815	1030.207	1033.638	1031.600
LEAD	220.353	Axial	85.16221	83.20215	85.60276	86.68173
LITHIUM	670.784	Radial	384.2051	391.3027	383.5577	377.7547
MAGNESIUM	279.079	Radial	341.8890	338.1657	344.5703	342.9308
MANGANESE	257.610	Axial	8345.732	8267.636	8439.069	8330.491
MOLYBDENUM	202.030	Axial	67.82155	66.47021	68.33306	68.66137
NICKEL	231.604	Axial	347.4458	344.1056	350.2163	348.0155
PHOSPHORUS	177.495	Axial	75.82862	75.43173	76.19015	75.86398
POTASSIUM	766.490	Radial	1859.633	1867.628	1857.720	1853.551
SELENIUM	196.090	Axial	35.30045	35.68179	34.88573	35.33383
SILICON	251.611	Axial	790.0977	779.1231	802.2604	788.9095
SILVER	328.068	Axial	746.2609	747.0345	747.1867	744.5615
SODIUM	589.592	Radial	7205.509	7198.348	7243.942	7174.237
SODIUM	818.326	Radial	172.0863	172.1362	173.2854	170.8373
STRONTIUM	421.552	Radial	4209.012	4205.603	4221.193	4200.239
SULFUR	182.034	Axial	99.80072	98.31494	101.3623	99.72488
THALLIUM	190.856	Axial	76.67018	76.35693	77.62676	76.02684
TIN	189.989	Axial	78.25233	77.44585	78.98419	78.32696
TITANIUM	334.941	Radial	648.5563	648.1148	651.6702	645.8839
VANADIUM	292.402	Radial	236.8021	238.3542	236.3111	235.7409
ZINC	206.200	Axial	958.8196	967.7844	945.5927	963.0818

Sample ID: STD4 Units: mg/l
Analyzed: 03/21/25 08:32 Sequence: 6 Standard ID: 25C19784

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6188.285	6111.350	6248.277	6205.228
YTTRIUM	360.073	Axial	59023.01	58284.25	59360.38	59424.39
YTTRIUM	360.073	Radial	4588.678	4613.668	4575.162	4577.203
INDIUM	230.606	Axial	1229.176	1210.219	1243.452	1233.857

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	506.6607	504.0082	509.3404	506.6335
ANTIMONY	206.833	Axial	65.29279	63.41165	65.95841	66.50830
ARSENIC	189.042	Axial	184.6343	183.7332	184.7172	185.4525
BARIUM	233.527	Axial	2794.378	2763.415	2800.681	2819.039
BERYLLIUM	313.042	Radial	2944.900	2949.298	2946.615	2938.789
BORON	249.678	Radial	190.2413	190.8279	189.8520	190.0441
CADMIUM	228.802	Axial	990.5863	981.6521	996.3187	993.7880
CALCIUM	317.933	Radial	9417.415	9385.579	9427.603	9439.063
CALCIUM	373.690	Radial	4665.341	4675.794	4661.023	4659.204
CHROMIUM	267.716	Axial	2091.840	2040.948	2106.322	2128.249
COBALT	228.616	Axial	894.4448	890.1909	891.6338	901.5098
COPPER	324.754	Axial	4103.615	4079.659	4100.532	4130.654
IRON	259.940	Radial	2393.784	2382.467	2399.523	2399.364
IRON	271.441	Radial	194.1976	195.5570	195.3293	191.7066
LEAD	220.353	Axial	198.1188	198.7309	197.1231	198.5025
LITHIUM	670.784	Radial	929.2009	933.6557	926.1194	927.8274
MAGNESIUM	279.079	Radial	799.8132	800.1810	799.6722	799.5866
MANGANESE	257.610	Axial	19797.82	19624.63	19836.81	19932.01
MOLYBDENUM	202.030	Axial	158.0396	158.2860	157.8126	158.0203
NICKEL	231.604	Axial	813.2088	801.8432	817.2447	820.5386
PHOSPHORUS	177.495	Axial	173.1512	171.2925	175.8136	172.3475
POTASSIUM	766.490	Radial	4356.359	4345.519	4374.164	4349.394
SELENIUM	196.090	Axial	85.34305	85.71392	85.52996	84.78528
SILICON	251.611	Axial	1825.945	1777.421	1849.399	1851.017
SILVER	328.068	Axial	1781.884	1781.356	1774.590	1789.706
SODIUM	818.326	Radial	390.3241	395.1302	387.7781	388.0639
STRONTIUM	421.552	Radial	9659.969	9638.767	9675.457	9665.684
SULFUR	182.034	Axial	225.7269	224.4821	226.9765	225.7219
THALLIUM	190.856	Axial	177.7247	179.2735	177.6810	176.2196
TIN	189.989	Axial	182.7743	179.9440	184.1076	184.2714
TITANIUM	334.941	Radial	1521.048	1523.645	1522.143	1517.357
VANADIUM	292.402	Radial	554.8730	555.3236	556.0707	553.2247
ZINC	206.200	Axial	2273.674	2273.435	2275.569	2272.019

Sample ID: STD5 Units: mg/l
Analyzed: 03/21/25 08:34 Sequence: 7 Standard ID: 25C19785

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6218.137	6212.293	6219.806	6222.313
YTTRIUM	360.073	Axial	58442.70	58591.26	58239.47	58497.38
YTTRIUM	360.073	Radial	4609.502	4559.346	4611.117	4658.043
INDIUM	230.606	Axial	1204.100	1204.522	1204.543	1203.236

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1081.428	1073.442	1083.411	1087.431
ANTIMONY	206.833	Axial	134.7171	134.2305	134.2931	135.6278
ARSENIC	189.042	Axial	388.1638	389.1652	389.2380	386.0883
BARIUM	233.527	Axial	5875.990	5886.596	5836.873	5904.501
BERYLLIUM	313.042	Radial	6230.549	6181.189	6230.143	6280.314
BORON	249.678	Radial	405.8000	402.0981	407.1285	408.1736
CADMIUM	228.802	Axial	2070.053	2065.934	2065.954	2078.271
CALCIUM	373.690	Radial	9789.139	9699.756	9830.645	9837.016
CHROMIUM	267.716	Axial	4481.100	4461.109	4497.745	4484.445
COBALT	228.616	Axial	1891.389	1896.583	1871.213	1906.370
COPPER	324.754	Axial	8427.715	8468.659	8344.357	8470.128
IRON	271.441	Radial	406.8121	403.9790	409.6265	406.8306
LEAD	220.353	Axial	409.9491	411.8085	406.6068	411.4319
LITHIUM	670.784	Radial	2059.533	2042.247	2060.646	2075.706
MAGNESIUM	279.079	Radial	1691.630	1671.449	1702.382	1701.060
MANGANESE	257.610	Axial	41876.25	42055.39	41551.23	42022.14
MOLYBDENUM	202.030	Axial	326.6030	326.6677	326.7000	326.4412
NICKEL	231.604	Axial	1713.439	1712.680	1714.307	1713.330
PHOSPHORUS	177.495	Axial	362.3992	365.0707	361.8440	360.2829
POTASSIUM	766.490	Radial	9268.618	9184.534	9312.601	9308.720
SELENIUM	196.090	Axial	177.6668	179.3592	176.3553	177.2859
SILICON	251.611	Axial	3855.183	3824.475	3877.346	3863.726
SILVER	328.068	Axial	3681.687	3718.103	3603.542	3723.417
SODIUM	818.326	Radial	822.9737	820.2577	825.6231	823.0403
STRONTIUM	421.552	Radial	20347.17	20037.04	20449.01	20555.45
SULFUR	182.034	Axial	474.5588	472.0459	473.6243	478.0063
THALLIUM	190.856	Axial	360.6455	360.7289	360.9880	360.2196
TIN	189.989	Axial	380.5627	379.7447	381.6326	380.3108
TITANIUM	334.941	Radial	3248.110	3191.935	3276.187	3276.208
VANADIUM	292.402	Radial	1177.157	1167.038	1183.152	1181.281
ZINC	206.200	Axial	4727.042	4747.608	4714.567	4718.951

Sample ID: STD6 Units: mg/l
Analyzed: 03/21/25 08:36 Sequence: 8 Standard ID: 25C19786

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6332.561	6255.504	6421.255	6320.923
YTTRIUM	360.073	Axial	58329.97	57570.82	59095.36	58323.75
YTTRIUM	360.073	Radial	4646.197	4622.514	4648.845	4667.231
INDIUM	230.606	Axial	1200.889	1191.877	1209.613	1201.177

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	2202.566	2200.797	2203.632	2203.268
ANTIMONY	206.833	Axial	272.1291	266.6745	278.7632	270.9496
ARSENIC	189.042	Axial	776.8090	764.0484	787.1772	779.2013
BARIUM	233.527	Axial	11835.10	11738.92	11947.76	11818.64
BERYLLIUM	313.042	Radial	12502.16	12491.53	12498.55	12516.38
BORON	249.678	Radial	816.6360	816.7785	816.7653	816.3642
CADMIUM	228.802	Axial	4205.485	4152.298	4265.338	4198.818
CALCIUM	373.690	Radial	19634.31	19555.73	19673.22	19673.99
CERIUM	535.353	Radial	875.0170	874.7027	876.2251	874.1231
CHROMIUM	267.716	Axial	9224.593	9193.558	9295.538	9184.684
COBALT	228.616	Axial	3835.861	3750.419	3917.513	3839.650
COPPER	324.754	Axial	16429.58	16127.63	16739.87	16421.24
IRON	271.441	Radial	810.6643	810.7487	810.2749	810.9693
LANTHANUM	333.749	Radial	5182.093	5211.524	5170.121	5164.634
LEAD	220.353	Axial	817.1380	799.6524	833.0827	818.6788
LITHIUM	670.784	Radial	4374.525	4350.417	4388.952	4384.206
MAGNESIUM	279.079	Radial	3390.711	3395.801	3387.181	3389.151
MANGANESE	257.610	Axial	84714.62	83399.62	85886.23	84858.01
MOLYBDENUM	202.030	Axial	656.7088	648.4998	666.8379	654.7888
NICKEL	231.604	Axial	3483.824	3459.231	3512.509	3479.733
PHOSPHORUS	177.495	Axial	735.0094	720.4752	749.5932	734.9599
POTASSIUM	766.490	Radial	18666.91	18621.09	18651.18	18728.46
SELENIUM	196.090	Axial	351.3911	351.4903	352.0262	350.6569
SILICON	251.611	Axial	7950.968	7834.548	8090.727	7927.627
SILVER	328.068	Axial	7322.069	7130.342	7522.761	7313.105
SODIUM	818.326	Radial	1677.241	1681.211	1673.404	1677.108
STRONTIUM	421.552	Radial	40928.02	40662.11	40883.23	41238.72
SULFUR	182.034	Axial	983.4750	961.4315	1000.259	988.7341
THALLIUM	190.856	Axial	718.3110	702.4248	728.2760	724.2323
TIN	189.989	Axial	758.6474	748.2859	767.5596	760.0968
TITANIUM	334.941	Radial	6521.086	6475.206	6562.965	6525.087
VANADIUM	292.402	Radial	2373.053	2377.114	2368.577	2373.469
ZINC	206.200	Axial	9109.331	9106.111	9139.658	9082.225

Sample ID: ICV Units: mg/l
Analyzed: 03/21/25 08:55 Sequence: 11 Standard ID: 25C19787

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	6478.633	6451.892	6568.872	6431.969	6461.799
YTTRIUM	360.073	Axial	61757.30	61695.68	62664.43	61284.92	61384.17
YTTRIUM	360.073	Radial	4713.444	4751.541	4738.608	4677.297	4686.328
INDIUM	230.606	Axial	1307.971	1297.389	1326.632	1304.919	1302.945

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	565.0048	10.02804	9.955157	10.08336	10.10056	9.973076
ANTIMONY	206.833	Axial	141.6844	1.015808	1.023130	1.004810	1.022603	1.012686
ARSENIC	189.042	Axial	204.8072	1.024980	1.040016	0.9994957	1.026118	1.034291
BARIUM	233.527	Axial	6237.846	1.029953	1.042628	1.025010	1.026514	1.025661
BERYLLIUM	313.042	Radial	15903.83	1.004575	1.001353	1.007203	1.003601	1.006142
BORON	249.678	Radial	206.3978	0.9993199	0.9893081	1.001795	0.9991111	1.007066
CADMIUM	228.802	Axial	2214.477	1.029156	1.043408	1.016196	1.033606	1.023412
CALCIUM	317.933	Radial	2052.891	10.43464	10.27229	10.65200	10.47402	10.34026
CHROMIUM	267.716	Axial	2337.517	0.9987973	1.010495	0.9860235	1.005626	0.9930454
COBALT	228.616	Axial	984.0146	0.9537096	0.9664578	0.9441704	0.9551736	0.9490366
COPPER	324.754	Axial	4571.297	1.048114	1.054444	1.036559	1.055376	1.046079
IRON	259.940	Radial	2610.492	10.49890	10.34514	10.66339	10.45468	10.53239
LEAD	220.353	Axial	443.8305	0.9998232	1.011553	0.9875776	1.004373	0.9957888
LITHIUM	670.784	Radial	1029.853	1.001239	0.9840920	1.011058	1.010134	0.9996726
MAGNESIUM	279.079	Radial	875.4017	10.42528	10.32981	10.45397	10.48752	10.42981
MANGANESE	257.610	Axial	21735.29	1.004296	1.014993	0.9968802	1.006778	0.9985353
MOLYBDENUM	202.030	Axial	712.8917	1.052945	1.061728	1.042353	1.060695	1.047003
NICKEL	231.604	Axial	906.3199	0.9624547	0.9740930	0.9533346	0.9620876	0.9603035
PHOSPHORUS	177.495	Axial	192.2036	1.018936	1.021827	1.015791	1.038776	0.9993506
POTASSIUM	766.490	Radial	954.0473	10.30384	10.23084	10.28883	10.27896	10.41674
SELENIUM	196.090	Axial	90.33451	0.9989623	0.9941009	1.003141	0.9997436	0.9988638
SILICON	251.611	Axial	1024.913	0.9763080	0.9791340	0.9651723	0.9870436	0.9738823
SILVER	328.068	Axial	3794.324	0.9815322	0.9894721	0.9703889	0.9815910	0.9846766
SODIUM	589.592	Radial	3775.417	10.32264	10.32752	10.26446	10.36710	10.33150
STRONTIUM	421.552	Radial	4254.944	0.4099197	0.4033015	0.4177507	0.4115087	0.4071177
SULFUR	182.034	Axial	501.7249	9.949151	10.00614	9.904340	10.07677	9.809354
THALLIUM	190.856	Axial	204.3513	1.048436	1.051263	1.041065	1.061942	1.039475
TIN	189.989	Axial	411.0331	0.9981337	1.013724	0.9877436	0.9988937	0.9921738
TITANIUM	334.941	Radial	1675.940	1.016422	1.006086	1.015072	1.024613	1.019916
VANADIUM	292.402	Radial	602.6563	1.005533	1.001630	1.005426	1.006661	1.008413
ZINC	206.200	Axial	2456.024	1.040149	1.053357	1.028118	1.036504	1.042616
CERIUM	535.353	Radial	28.83321	0.1174955	0.1127160	0.1123947	0.1281549	0.1167165
LANTHANUM	333.749	Radial	-7.58676	-0.006238472	-0.007262587	-0.007210297	-0.005055460	-0.005425545

Sample ID: ICB Units: mg/l
Analyzed: 03/21/25 08:59 Sequence: 12

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6328.376	6365.961	6267.279	6351.887
YTTRIUM	360.073	Axial	60664.17	61074.89	60180.28	60737.35
YTTRIUM	360.073	Radial	4761.581	4805.071	4733.376	4746.296
INDIUM	230.606	Axial	1338.325	1342.761	1325.871	1346.342

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.07264	-0.01088985	-0.01172645	-0.01235241	-0.008590677
ANTIMONY	206.833	Axial	0.2251624	-0.0003987517	-0.01018647	0.005967538	0.003022678
ARSENIC	189.042	Axial	0.9237901	-0.0006736891	0.005036661	-0.003558999	-0.003498730
BARIUM	233.527	Axial	-8.37943	-0.00005799971	-0.0003055036	-0.00006352405	0.0001950285
BERYLLIUM	313.042	Radial	4.589206	0.0001049571	-0.00001101949	0.0001212455	0.0002046452
BORON	249.678	Radial	-0.8663181	-0.003424130	-0.001999810	-0.006253464	-0.002019117
CADMIUM	228.802	Axial	8.961760	0.0001307474	-0.0002522605	0.0002913574	0.0003531454
CALCIUM	317.933	Radial	11.56242	-0.003013699	-0.005039895	-0.005197259	0.001196058
CERIUM	535.353	Radial	21.89100	0.03510836	0.02125335	0.05599806	0.02807366
CHROMIUM	267.716	Axial	-7.71367	0.0004348755	0.002055977	-0.0003329870	-0.0004183632
COBALT	228.616	Axial	-5.80999	0.0005244144	0.0001703281	0.0009123194	0.0004905958
COPPER	324.754	Axial	-12.4630	-0.0004221168	-0.001958116	0.0003207861	0.0003709791
IRON	259.940	Radial	0.6405882	-0.002713333	-0.005784321	-0.003044451	0.0006887723
LANTHANUM	333.749	Radial	-3.34023	0.001908260	-0.001700334	0.005946911	0.001478202
LEAD	220.353	Axial	0.5580686	0.001209050	0.001968905	-0.0002907159	0.001948959
LITHIUM	670.784	Radial	-6.84155	0.0003221891	0.005025227	-0.005212358	0.001153697
MAGNESIUM	279.079	Radial	-4.14421	-0.01570270	-0.02901495	-0.008565109	-0.009528054
MANGANESE	257.610	Axial	-11.8428	0.00006893814	0.0002327018	-0.0001037511	0.00007786377
MOLYBDENUM	202.030	Axial	-0.1504245	-0.001025402	-0.001003485	-0.0007581833	-0.001314538
NICKEL	231.604	Axial	3.253927	0.002076970	0.003308107	0.002789813	0.0001329903
PHOSPHORUS	177.495	Axial	1.242344	0.0006382391	0.0002457912	0.001495469	0.0001734567
POTASSIUM	766.490	Radial	-24.8854	-0.04154546	-0.06271899	-0.01218211	-0.04973528
SELENIUM	196.090	Axial	-0.1325899	-0.002132518	-0.003922313	0.0002356263	-0.002710867
SILICON	251.611	Axial	10.53433	0.0004118090	-0.003290501	0.002329679	0.002196250
SILVER	328.068	Axial	-15.5798	0.0004579817	-0.0003616989	0.001111318	0.0006243262
SODIUM	589.592	Radial	-21.5454	-0.04234216	-0.03826068	-0.03721900	-0.05154681
STRONTIUM	421.552	Radial	3.441063	-0.0003381468	-0.0003194042	-0.0003188893	-0.0003761468
SULFUR	182.034	Axial	3.576602	-0.007963784	-0.004628892	-0.002069123	-0.01719334
THALLIUM	190.856	Axial	-2.06157	-0.006360708	-0.01029482	-0.004271471	-0.004515837
TIN	189.989	Axial	-1.10582	-0.001215507	-0.001393846	-0.002568297	0.0003156206
TITANIUM	334.941	Radial	-0.3843956	0.001496667	0.002184966	0.001428471	0.0008765638
VANADIUM	292.402	Radial	-2.16681	-0.0009996125	0.0003361932	-0.004340741	0.001005710
ZINC	206.200	Axial	3.585146	0.00001933368	0.0004216840	-0.0001170951	-0.0002465878

Sample ID: ICVLL Units: mg/l
Analyzed: 03/21/25 09:04 Sequence: 15 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6480.793	6527.034	6480.721	6434.626
YTTRIUM	360.073	Axial	62267.15	62596.46	61689.66	62515.34
YTTRIUM	360.073	Radial	4749.061	4794.751	4765.439	4686.992
INDIUM	230.606	Axial	1349.785	1354.700	1345.800	1348.854

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.495547	0.2259552	0.2557577	0.1992951	0.2228129
ANTIMONY	206.833	Axial	1.745421	0.01045031	0.01413932	0.0005448450	0.01666678
ARSENIC	189.042	Axial	3.221635	0.01079751	0.007677450	0.01260435	0.01211073
BARIUM	233.527	Axial	25.74451	0.005599951	0.005757293	0.005315020	0.005727540
BERYLLIUM	313.042	Radial	36.01974	0.002075885	0.002072849	0.002103038	0.002051768
BORON	249.678	Radial	42.15783	0.2031552	0.2015757	0.2070023	0.2008875
CADMIUM	228.802	Axial	12.64161	0.001744789	0.001905496	0.001708117	0.001620754
CALCIUM	317.933	Radial	218.9715	1.049687	1.028901	1.069850	1.050309
CHROMIUM	267.716	Axial	13.14511	0.009389710	0.01023869	0.009430530	0.008499915
COBALT	228.616	Axial	3.287825	0.009055380	0.01091578	0.007186234	0.009064130
COPPER	324.754	Axial	32.46132	0.009839784	0.01073764	0.01014800	0.008633713
IRON	259.940	Radial	27.98396	0.1064772	0.1069004	0.1064902	0.1060409
LEAD	220.353	Axial	2.650096	0.005773866	0.003049365	0.002911243	0.01136099
LITHIUM	670.784	Radial	7.900956	0.01442687	0.01926225	0.01314363	0.01087472
MAGNESIUM	279.079	Radial	86.92338	1.057202	1.052370	1.041839	1.077396
MANGANESE	257.610	Axial	203.2158	0.01001036	0.009952902	0.009990331	0.01008784
MOLYBDENUM	202.030	Axial	4.457721	0.005791056	0.004587294	0.006731143	0.006054731
NICKEL	231.604	Axial	9.975440	0.008969076	0.009276269	0.009312054	0.008318904
PHOSPHORUS	177.495	Axial	20.46628	0.1029653	0.1026799	0.1031104	0.1031055
POTASSIUM	766.490	Radial	85.65894	1.116806	1.204180	1.106092	1.040146
SELENIUM	196.090	Axial	1.027709	0.01071712	0.01254520	0.01091236	0.008693820
SILICON	251.611	Axial	213.1371	0.1934798	0.1951891	0.1933616	0.1918887
SILVER	328.068	Axial	5.494364	0.005941825	0.006453713	0.006122941	0.005248822
SODIUM	589.592	Radial	379.3766	1.043726	1.058685	1.035392	1.037100
STRONTIUM	421.552	Radial	112.2358	0.01008167	0.009681586	0.01074440	0.009819009
SULFUR	182.034	Axial	53.31446	0.9842541	0.9822616	0.9944971	0.9760037
THALLIUM	190.856	Axial	0.9725170	0.008755581	0.004738269	0.01250789	0.009020586
TIN	189.989	Axial	20.42254	0.04940107	0.04786890	0.05065842	0.04967589
TITANIUM	334.941	Radial	81.77775	0.05087343	0.05047450	0.05053453	0.05161127
VANADIUM	292.402	Radial	12.14881	0.02264985	0.02431204	0.01946304	0.02417447
ZINC	206.200	Axial	145.0937	0.05997992	0.05967486	0.06037144	0.05989345
CERIUM	535.353	Radial	26.75930	0.09154492	0.1093420	0.02026122	0.1450315
LANTHANUM	333.749	Radial	-3.88467	0.0008375643	-0.00003740051	0.003607554	-0.001057460

Sample ID: ICSA Units: mg/l
Analyzed: 03/21/25 09:06 Sequence: 16 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6209.122	6129.217	6252.402	6245.747
YTTRIUM	360.073	Axial	56943.11	56528.67	56709.27	57591.38
YTTRIUM	360.073	Radial	4630.323	4647.364	4606.448	4637.159
INDIUM	230.606	Axial	1145.967	1139.647	1149.860	1148.394

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28393.75	509.1013	510.4642	510.3168	506.5230
ANTIMONY	206.833	Axial	1.137327	0.006447154	0.008384572	0.005569339	0.005387550
ARSENIC	189.042	Axial	0.08403090	-0.004907903	0.005279156	-0.008723808	-0.01127906
BARIUM	233.527	Axial	2.746264	0.001830300	0.002042907	0.001498521	0.001949471
BERYLLIUM	313.042	Radial	13.74000	0.0007008089	0.0007711001	0.0005939620	0.0007373647
BORON	249.678	Radial	-7.32224	-0.03529493	-0.04377895	-0.02316558	-0.03894027
CADMIUM	228.802	Axial	6.907919	-0.0007914524	-0.001340076	-0.0005217004	-0.0005125805
CALCIUM	373.690	Radial	49040.54	511.6463	512.0951	511.1054	511.7383
CERIUM	535.353	Radial	25.71762	0.08687797	0.09210637	0.06860486	0.09992269
CHROMIUM	267.716	Axial	-21.6744	-0.005823406	-0.005588440	-0.006658098	-0.005223679
COBALT	228.616	Axial	-4.42097	0.001132004	0.001184600	0.0006186421	0.001592770
COPPER	324.754	Axial	35.92912	0.01139299	0.01080001	0.01315651	0.01022246
IRON	271.441	Radial	4088.898	204.2666	204.9753	204.6482	203.1764
LANTHANUM	333.749	Radial	-5.25093	-0.001980646	-0.003569896	-0.0005366074	-0.001835433
LEAD	220.353	Axial	0.001554096	-0.00001767799	-0.002953027	0.003814099	-0.0009141064
LITHIUM	670.784	Radial	3.388934	0.01022379	0.007499565	0.01284848	0.01032333
MAGNESIUM	279.079	Radial	43430.23	524.8626	525.0418	527.6116	521.9344
MANGANESE	257.610	Axial	-188.674	-0.008460159	-0.008421298	-0.008899565	-0.008059613
MOLYBDENUM	202.030	Axial	1.266022	0.001139825	-0.001049952	0.001070068	0.003399359
NICKEL	231.604	Axial	1.116552	0.00004664138	0.0007722369	0.002482782	-0.003115095
PHOSPHORUS	177.495	Axial	2.463552	0.007550403	0.005835356	0.004268200	0.01254765
POTASSIUM	766.490	Radial	-14.2678	0.06504105	0.1320180	0.01179776	0.05130743
SELENIUM	196.090	Axial	-0.0003776531	-0.0006311484	0.001338015	-0.009709878	0.006478418
SILICON	251.611	Axial	7.525050	-0.002068487	-0.001757369	-0.002741088	-0.001707004
SILVER	328.068	Axial	0.5499225	0.004693209	0.006395151	0.002929782	0.004754695
SODIUM	589.592	Radial	2.931504	0.02404681	0.01554474	0.02474811	0.03184759
STRONTIUM	421.552	Radial	65.13134	0.005731087	0.005599843	0.005750671	0.005842748
SULFUR	182.034	Axial	3.682188	-0.004359289	-0.001408341	-0.008835063	-0.002834462
THALLIUM	190.856	Axial	-2.06452	-0.008104253	-0.005270176	-0.01320551	-0.005837069
TIN	189.989	Axial	-0.8421534	-0.0009146921	0.0005205528	-0.001545970	-0.001718660
TITANIUM	334.941	Radial	-8.47898	-0.003497506	-0.003020103	-0.004212625	-0.003259789
VANADIUM	292.402	Radial	3.004316	0.007661386	0.009155934	0.005167527	0.008660698
ZINC	206.200	Axial	28.26566	0.01097610	0.01163468	0.01056749	0.01072613

Sample ID: ICSAB Units: mg/l
Analyzed: 03/21/25 09:07 Sequence: 17 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6123.093	6094.031	6165.989	6109.260
YTTRIUM	360.073	Axial	56214.01	56153.76	56384.67	56103.61
YTTRIUM	360.073	Radial	4592.023	4591.745	4646.096	4538.227
INDIUM	230.606	Axial	1130.727	1126.804	1135.706	1129.670

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28105.66	508.1369	507.9550	508.2932	508.1624
ANTIMONY	206.833	Axial	65.43232	0.4952210	0.4819709	0.5044874	0.4992048
ARSENIC	189.042	Axial	93.75137	0.4935868	0.4938625	0.4935950	0.4933030
BARIUM	233.527	Axial	2877.452	0.5033935	0.5031571	0.4981878	0.5088356
BERYLLIUM	313.042	Radial	7744.502	0.5020147	0.5031202	0.5031462	0.4997776
BORON	249.678	Radial	195.7988	0.9730376	0.9653942	0.9798966	0.9738219
CADMIUM	228.802	Axial	2037.292	1.001625	1.004228	0.9991370	1.001509
CALCIUM	373.690	Radial	48742.41	512.7760	514.8863	512.0973	511.3445
CERIUM	535.353	Radial	27.25138	0.1076273	0.1062523	0.09839761	0.1182319
CHROMIUM	267.716	Axial	1065.295	0.4835681	0.4831471	0.4798800	0.4876772
COBALT	228.616	Axial	450.8244	0.5082139	0.5073731	0.5101328	0.5071357
COPPER	324.754	Axial	2078.896	0.5248616	0.5251200	0.5277100	0.5217547
IRON	271.441	Radial	4046.362	203.8270	204.4594	203.5623	203.4593
LANTHANUM	333.749	Radial	-7.33061	-0.006128269	-0.003544000	-0.007227607	-0.007613200
LEAD	220.353	Axial	385.3015	1.003979	1.009871	0.9986403	1.003426
LITHIUM	670.784	Radial	-2.97633	0.003950866	0.005520351	0.001227394	0.005104854
MAGNESIUM	279.079	Radial	42883.12	522.5730	520.8078	522.7431	524.1680
MANGANESE	257.610	Axial	10221.65	0.5000247	0.4984861	0.4984700	0.5031180
MOLYBDENUM	202.030	Axial	314.2119	0.4905902	0.4916067	0.4900808	0.4900831
NICKEL	231.604	Axial	827.5371	1.016567	1.016074	1.013166	1.020463
PHOSPHORUS	177.495	Axial	1.500117	0.002309558	0.002380534	0.004444040	0.0001041018
POTASSIUM	766.490	Radial	-15.4229	0.05152367	0.07964908	0.02104890	0.05387303
SELENIUM	196.090	Axial	41.82964	0.4891785	0.4917050	0.4686218	0.5072086
SILICON	251.611	Axial	917.1093	0.9595425	0.9562053	0.9576636	0.9647586
SILVER	328.068	Axial	3524.290	1.001450	1.007375	0.9931481	1.003827
SODIUM	589.592	Radial	16.73123	0.06280299	0.07267136	0.05436185	0.06137575
STRONTIUM	421.552	Radial	67.58374	0.006023902	0.006171096	0.006373777	0.005526832
SULFUR	182.034	Axial	4.052287	0.004478473	-0.003920196	0.01826946	-0.0009138455
THALLIUM	190.856	Axial	81.31783	0.4847077	0.4831396	0.4856052	0.4853782
TIN	189.989	Axial	177.5471	0.4994098	0.4983027	0.4963370	0.5035896
TITANIUM	334.941	Radial	785.3272	0.4897595	0.4842294	0.4919246	0.4931245
VANADIUM	292.402	Radial	286.5951	0.4921151	0.4921531	0.4954032	0.4887889
ZINC	206.200	Axial	2274.601	1.019194	1.016948	1.010457	1.030178

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 14:52 Sequence: 201 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6514.975	6532.290	6575.517	6437.117
YTTRIUM	360.073	Axial	61699.78	62008.36	62326.37	60764.62
YTTRIUM	360.073	Radial	4623.999	4640.663	4634.769	4596.565
INDIUM	230.606	Axial	1283.116	1283.392	1291.347	1274.609

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	547.3045	9.902537	9.979297	9.846698	9.881617
ANTIMONY	206.833	Axial	71.28006	0.5071566	0.5141984	0.4970933	0.5101780
ARSENIC	189.042	Axial	201.9808	1.005084	0.9955669	0.9972114	1.022475
BARIUM	233.527	Axial	3117.395	0.5125419	0.5121461	0.5104047	0.5150749
BERYLLIUM	313.042	Radial	3146.984	0.2024802	0.2031889	0.2015006	0.2027512
BORON	249.678	Radial	204.6211	1.009829	1.015934	1.009060	1.004492
CADMIUM	228.802	Axial	1076.857	0.4955094	0.4940472	0.4940522	0.4984289
CALCIUM	373.690	Radial	5002.405	52.29058	52.31352	52.13527	52.42296
CHROMIUM	267.716	Axial	2333.399	0.9914771	0.9938738	0.9845166	0.9960409
COBALT	228.616	Axial	995.0781	0.9828805	0.9851073	0.9797254	0.9838088
COPPER	324.754	Axial	4434.540	1.017751	1.015737	1.016222	1.021295
IRON	259.940	Radial	2591.833	10.62562	10.65143	10.55356	10.67187
LEAD	220.353	Axial	214.7998	0.4932257	0.4906146	0.4925584	0.4965040
LITHIUM	670.784	Radial	1033.802	1.024343	1.020911	1.020899	1.031218
MAGNESIUM	279.079	Radial	854.0315	10.36744	10.37900	10.34552	10.37781
MANGANESE	257.610	Axial	22126.96	1.016656	1.016305	1.015286	1.018378
MOLYBDENUM	202.030	Axial	171.6248	0.2514770	0.2507494	0.2489621	0.2547196
NICKEL	231.604	Axial	891.0416	0.9645187	0.9628307	0.9630360	0.9676893
PHOSPHORUS	177.495	Axial	189.0139	0.9962672	1.009305	0.9870085	0.9924881
POTASSIUM	766.490	Radial	4713.604	51.00937	50.65279	50.93309	51.44221
SELENIUM	196.090	Axial	90.97236	1.000476	1.009931	0.9865829	1.004913
SILICON	251.611	Axial	2047.966	1.962577	1.965164	1.947299	1.975267
SILVER	328.068	Axial	1992.635	0.5181162	0.5143390	0.5158261	0.5241835
SODIUM	818.326	Radial	428.4957	49.17089	49.89750	48.81889	48.79628
STRONTIUM	421.552	Radial	10403.08	1.022618	1.018925	1.022339	1.026590
SULFUR	182.034	Axial	240.7031	4.704085	4.689361	4.683645	4.739248
THALLIUM	190.856	Axial	196.7365	1.028951	1.037760	1.027172	1.021920
TIN	189.989	Axial	199.0328	0.4933768	0.4897349	0.4933254	0.4970703
TITANIUM	334.941	Radial	1630.152	1.007748	1.015840	0.9984511	1.008953
VANADIUM	292.402	Radial	589.8925	1.003269	1.010338	0.9939935	1.005476
ZINC	206.200	Axial	2459.268	1.035700	1.030386	1.033065	1.043650
CERIUM	535.353	Radial	14.29699	-0.04646238	-0.07151341	-0.07466129	0.006787557
LANTHANUM	333.749	Radial	-6.36881	-0.004163958	-0.008213972	0.0002751645	-0.004553067

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 14:53 Sequence: 202

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6494.933	6475.616	6514.496	6494.687
YTTRIUM	360.073	Axial	63076.92	63128.69	63248.03	62854.03
YTTRIUM	360.073	Radial	4707.952	4738.895	4705.955	4679.006
INDIUM	230.606	Axial	1371.114	1361.474	1383.009	1368.858

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-4.12531	0.004718257	0.02203752	0.01100890	-0.01889165
ANTIMONY	206.833	Axial	1.133388	0.006039752	0.01086993	0.002424475	0.004824847
ARSENIC	189.042	Axial	1.487798	0.002049113	0.0003337435	0.002766024	0.003047571
BARIUM	233.527	Axial	-6.47131	0.0002927688	0.0006832312	-0.0001260339	0.0003211090
BERYLLIUM	313.042	Radial	3.413297	0.00003330678	0.00004818099	0.00002683245	0.00002490690
BORON	249.678	Radial	-0.07752670	0.0003542761	0.0005507989	0.001699672	-0.001187643
CADMIUM	228.802	Axial	9.460028	0.0002534351	0.001121882	-0.0004463929	0.00008481557
CALCIUM	317.933	Radial	14.97777	0.01512282	0.01441542	0.02003025	0.01092278
CERIUM	535.353	Radial	13.20702	-0.06228991	-0.02877554	-0.07201286	-0.08608134
CHROMIUM	267.716	Axial	-8.35169	0.0002567625	0.001400392	-0.0005629508	-0.00006715401
COBALT	228.616	Axial	-6.17622	0.0003227652	0.0006825321	-0.001147679	0.001433442
COPPER	324.754	Axial	-4.54528	0.001455892	0.00005671111	0.002916498	0.001394466
IRON	259.940	Radial	1.068528	-0.0009801775	0.0003580151	-0.000006555043	-0.003291993
LANTHANUM	333.749	Radial	-0.1527456	0.007880723	0.008087322	0.008778636	0.006776210
LEAD	220.353	Axial	0.1530014	0.0003203444	0.001441431	-0.0002972788	-0.0001831191
LITHIUM	670.784	Radial	-2.58462	0.004378913	0.006961395	0.002829014	0.003346329
MAGNESIUM	279.079	Radial	-1.80595	0.01148901	0.005600544	0.01546134	0.01340515
MANGANESE	257.610	Axial	-11.3733	0.0001056659	0.0001123588	0.0002552861	-0.00005064729
MOLYBDENUM	202.030	Axial	0.7689221	0.0003332696	-0.0009106004	0.0005308567	0.001379552
NICKEL	231.604	Axial	1.271810	-0.00002339802	-0.0007292626	0.0008296960	-0.0001706274
PHOSPHORUS	177.495	Axial	1.105258	-0.0002632611	0.002975315	-0.002866994	-0.0008981044
POTASSIUM	766.490	Radial	-22.6775	-0.02118907	-0.04001433	-0.01650610	-0.007046795
SELENIUM	196.090	Axial	-0.3503142	-0.004498764	0.004722046	-0.005812622	-0.01240572
SILICON	251.611	Axial	13.63843	0.002928575	0.006312713	0.0006041172	0.001868894
SILVER	328.068	Axial	-15.4127	0.0006530615	0.001566771	-0.0001139590	0.0005063728
SODIUM	589.592	Radial	-31.8910	-0.07131810	-0.05280666	-0.08663800	-0.07450964
STRONTIUM	421.552	Radial	5.531280	-0.0001337142	0.0002489898	-0.0003008334	-0.0003492989
SULFUR	182.034	Axial	2.992746	-0.02150707	-0.01786872	-0.01816682	-0.02848568
THALLIUM	190.856	Axial	-0.7171895	0.0004636210	0.004833163	-0.006051818	0.002609518
TIN	189.989	Axial	-0.04635159	0.001305555	0.0005574238	0.0007167643	0.002642478
TITANIUM	334.941	Radial	-3.11951	-0.0001622010	0.0002568365	-0.0004063848	-0.0003370549
VANADIUM	292.402	Radial	-3.34034	-0.002978539	-0.006751819	0.0009617283	-0.003145526
ZINC	206.200	Axial	4.570816	0.0003990728	0.001245873	-0.0005205015	0.0004718469

Sample ID: BLANK DF: 1x Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 14:55 Sequence: 203

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6522.880	6411.402	6601.766	6555.473
YTTRIUM	360.073	Axial	63427.85	62475.55	63560.92	64247.09
YTTRIUM	360.073	Radial	4707.545	4731.425	4670.707	4720.502
INDIUM	230.606	Axial	1386.835	1364.525	1387.549	1408.432

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.707646	0.003135973	0.005304207	0.002277185	0.001826527
BARIUM	233.527	Axial	-2.78970	0.0009031839	0.001213613	0.0003015835	0.001194355
BORON	249.678	Radial	0.2825741	0.002116217	0.001345234	0.005977408	-0.0009739927
CADMIUM	228.802	Axial	8.882803	-0.00002916711	0.0005691898	-0.0004162520	-0.0002404392
CHROMIUM	267.716	Axial	-5.19768	0.001596738	0.001036169	0.002650089	0.001103956
COBALT	228.616	Axial	-7.04736	-0.0003971635	0.0009121232	-0.0006190138	-0.001484600
LEAD	220.353	Axial	0.4114645	0.0008662026	0.001377866	0.0007106604	0.0005100814
LITHIUM	670.784	Radial	-7.15602	-0.00002553738	0.0006205603	0.002091413	-0.002788585
SELENIUM	196.090	Axial	0.5246115	0.005147080	0.009100838	0.007489286	-0.001148885
SILVER	328.068	Axial	-13.5426	0.001143656	0.0009149308	0.001891006	0.0006250323
ALUMINUM	308.215	Radial	-4.38628	0.0003475595	-0.01359564	0.04033216	-0.02569384
ANTIMONY	206.833	Axial	1.071822	0.005559483	0.004913314	0.002612895	0.009152240
BERYLLIUM	313.042	Radial	3.403540	0.00003293155	0.0001342379	0.0001040811	-0.0001395243
CALCIUM	317.933	Radial	14.53459	0.01287538	0.01283453	0.01523226	0.01055936
CERIUM	535.353	Radial	12.13184	-0.07453085	-0.1019069	-0.07783149	-0.04385411
COPPER	324.754	Axial	-3.23862	0.001747530	0.0009565591	0.002125259	0.002160772
IRON	259.940	Radial	3.421254	0.008504545	0.009277287	0.008116377	0.008119972
LANTHANUM	333.749	Radial	-0.5636760	0.007095830	0.008570397	0.005866938	0.006850155
MAGNESIUM	279.079	Radial	-1.51001	0.01501604	0.005710997	0.02113172	0.01820539
MANGANESE	257.610	Axial	-8.84484	0.0002230621	0.0001452918	0.0003839637	0.0001399309
MOLYBDENUM	202.030	Axial	1.623081	0.001589618	0.002468194	0.001845472	0.0004551887
NICKEL	231.604	Axial	1.000491	-0.0003026273	-0.00003819495	-0.0002038522	-0.0006658348
PHOSPHORUS	177.495	Axial	1.769760	0.003243672	0.005302106	0.001996451	0.002432460
POTASSIUM	766.490	Radial	-28.5305	-0.08324275	-0.08799997	-0.08860615	-0.07312212
SILICON	251.611	Axial	18.16098	0.007099926	0.007393916	0.007838184	0.006067677
SODIUM	589.592	Radial	35.33249	0.1124704	0.1115798	0.1128590	0.1129723
STRONTIUM	421.552	Radial	9.964905	0.0002956713	0.0002468591	0.0001921776	0.0004479772
SULFUR	182.034	Axial	5.099699	0.02009724	0.02298226	0.01817423	0.01913523
THALLIUM	190.856	Axial	-0.3745171	0.002140162	0.003238935	0.002877943	0.0003036091
TIN	189.989	Axial	-0.01905175	0.001384129	0.003938194	-0.0008759446	0.001090138
TITANIUM	334.941	Radial	-1.56350	0.0007806890	0.00006700966	0.0002064120	0.002068645
VANADIUM	292.402	Radial	-0.2802765	0.002117484	0.003400210	0.004111247	-0.001159006
ZINC	206.200	Axial	10.36988	0.002835378	0.003160278	0.002336993	0.003008864

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 14:57 Sequence: 204

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6567.747	6524.800	6583.531	6594.912
YTTRIUM	360.073	Axial	62515.55	62553.06	62231.87	62761.70
YTTRIUM	360.073	Radial	4691.363	4690.939	4702.659	4680.491
INDIUM	230.606	Axial	1323.772	1323.251	1321.060	1327.005

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	205.1066	1.012377	1.012471	1.015886	1.008773
BARIUM	233.527	Axial	6356.420	1.035251	1.031929	1.035902	1.037921
BORON	249.678	Radial	202.5077	0.9850929	0.9797406	0.9812408	0.9942972
CADMIUM	228.802	Axial	2187.377	1.002604	1.004259	1.001208	1.002345
CHROMIUM	267.716	Axial	2346.261	0.9889019	0.9880003	0.9911985	0.9875070
COBALT	228.616	Axial	996.5094	0.9542295	0.9541016	0.9529041	0.9556827
LEAD	220.353	Axial	439.4651	0.9781079	0.9740037	0.9809009	0.9794192
LITHIUM	670.784	Radial	1046.500	1.022025	1.014083	1.029316	1.022676
SELENIUM	196.090	Axial	90.59356	0.9882991	1.005010	0.9793627	0.9805247
SILVER	328.068	Axial	752.1644	0.1958532	0.1966424	0.1954917	0.1954254
ALUMINUM	308.215	Radial	567.3117	10.11551	10.11272	10.14673	10.08708
ANTIMONY	206.833	Axial	141.7442	1.002382	1.008435	0.9946585	1.004051
BERYLLIUM	313.042	Radial	15807.67	1.003198	1.002929	1.002421	1.004245
CALCIUM	317.933	Radial	2073.107	10.58775	10.67993	10.64782	10.43551
CERIUM	535.353	Radial	10.16212	-0.09677897	-0.09708790	-0.1287291	-0.06451989
COPPER	324.754	Axial	4632.394	1.049191	1.045950	1.053352	1.048272
IRON	259.940	Radial	2642.095	10.67602	10.69915	10.68754	10.64136
LANTHANUM	333.749	Radial	-12.5187	-0.01573829	-0.02108419	-0.008565489	-0.01756519
MAGNESIUM	279.079	Radial	858.7296	10.27505	10.25074	10.29339	10.28102
MANGANESE	257.610	Axial	22146.06	1.009357	1.011758	1.005559	1.010755
MOLYBDENUM	202.030	Axial	710.8031	1.035543	1.035400	1.030566	1.040663
NICKEL	231.604	Axial	902.5695	0.9469539	0.9426700	0.9472510	0.9509408
PHOSPHORUS	177.495	Axial	190.4822	0.9959591	1.003155	0.9936109	0.9911117
POTASSIUM	766.490	Radial	941.0716	10.21320	10.22511	10.22085	10.19364
SILICON	251.611	Axial	999.2249	0.9398913	0.9308575	0.9507452	0.9380712
SODIUM	589.592	Radial	3732.031	10.25200	10.24300	10.24971	10.26330
STRONTIUM	421.552	Radial	10591.12	1.026129	1.034205	1.031095	1.013085
SULFUR	182.034	Axial	488.4630	9.551212	9.558793	9.551818	9.543024
THALLIUM	190.856	Axial	205.9718	1.044112	1.030220	1.046496	1.055620
TIN	189.989	Axial	409.8568	0.9833553	0.9753707	0.9880115	0.9866836
TITANIUM	334.941	Radial	1669.905	1.017493	1.010417	1.014466	1.027598
VANADIUM	292.402	Radial	592.7108	0.9936131	0.9903797	0.9928763	0.9975833
ZINC	206.200	Axial	2451.348	1.024021	1.029439	1.011814	1.030810

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838018-01 DF: 1x Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 14:58 Sequence: 205

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6615.642	6642.691	6627.322	6576.914
YTTRIUM	360.073	Axial	61382.44	61680.48	61353.60	61113.25
YTTRIUM	360.073	Radial	4768.232	4814.296	4761.317	4729.084
INDIUM	230.606	Axial	1198.991	1202.995	1195.545	1198.433

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.725701	0.01786775	0.01694595	0.01847779	0.01817951
BARIUM	233.527	Axial	2372.259	0.3844273	0.3841953	0.3832872	0.3857993
BORON	249.678	Radial	0.3570919	0.002432786	0.003281728	0.003816417	0.0002002128
CADMIUM	228.802	Axial	12.46216	0.001540624	0.001797428	0.002251654	0.0005727881
CHROMIUM	267.716	Axial	62.03499	0.02965705	0.03017295	0.02942581	0.02937238
COBALT	228.616	Axial	29.61555	0.03710889	0.03524027	0.03890884	0.03717757
LEAD	220.353	Axial	75.90484	0.1865134	0.1851942	0.1869961	0.1873499
LITHIUM	670.784	Radial	6.732319	0.01331543	0.01311238	0.01170174	0.01513217
SELENIUM	196.090	Axial	0.5911582	0.005804526	-0.008787442	0.008813398	0.01738762
SILVER	328.068	Axial	0.6360024	0.004705534	0.003091999	0.006511390	0.004513211
ALUMINUM	308.215	Radial	957.2612	16.74252	16.68209	16.78846	16.75702
ANTIMONY	206.833	Axial	1.770153	0.01036449	0.008872011	0.01166806	0.01055341
BERYLLIUM	313.042	Radial	40.84871	0.002368941	0.002297853	0.002363053	0.002445917
CALCIUM	373.690	Radial	98711.30	1000.072	996.4859	1001.746	1001.985
CERIUM	535.353	Radial	20.34317	0.01699555	0.04449728	-0.01862873	0.02511809
COPPER	324.754	Axial	155.2050	0.03819117	0.03799874	0.03878601	0.03778877
IRON	271.441	Radial	933.7992	45.29825	45.02516	45.42013	45.44947
LANTHANUM	333.749	Radial	27.53721	0.05992411	0.05857188	0.05687313	0.06432734
MAGNESIUM	279.079	Radial	3973.079	46.65747	46.38605	46.79783	46.78852
MANGANESE	257.610	Axial	62234.41	2.814807	2.810196	2.816525	2.817700
MOLYBDENUM	202.030	Axial	2.279724	0.002498809	0.001625404	0.004420316	0.001450706
NICKEL	231.604	Axial	37.41018	0.04208643	0.04218257	0.04344785	0.04062888
PHOSPHORUS	177.495	Axial	274.3429	1.426695	1.417227	1.424363	1.438496
POTASSIUM	766.490	Radial	187.1849	2.174894	2.114218	2.227463	2.183000
SILICON	251.611	Axial	8312.332	8.037048	8.043294	8.008320	8.059529
SODIUM	589.592	Radial	509.9497	1.392091	1.373587	1.408523	1.394164
STRONTIUM	421.552	Radial	10069.05	0.9597576	0.9638027	0.9637842	0.9516858
SULFUR	182.034	Axial	159.1239	3.034035	3.048053	2.994775	3.059278
THALLIUM	190.856	Axial	-1.72893	-0.005711104	-0.006980955	-0.009228522	-0.0009238352
TIN	189.989	Axial	0.1361349	0.001772003	0.002443310	0.002603037	0.0002696612
TITANIUM	334.941	Radial	115.2720	0.07072325	0.06889958	0.07236408	0.07090610
VANADIUM	292.402	Radial	51.24806	0.08689891	0.08477618	0.08652882	0.08939173
ZINC	206.200	Axial	1057.768	0.4377986	0.4345138	0.4375677	0.4413144

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1838018-01 Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 15:00 Sequence: 206

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6556.651	6574.332	6556.138	6539.485
YTTRIUM	360.073	Axial	62220.55	62814.79	62072.20	61774.66
YTTRIUM	360.073	Radial	4706.556	4692.629	4699.696	4727.342
INDIUM	230.606	Axial	1294.754	1299.692	1287.907	1296.664

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	2.173039	0.005378347	0.01193928	0.002262268	0.001933488
BARIUM	233.527	Axial	482.7456	0.08001078	0.07957412	0.08049847	0.07995975
BORON	249.678	Radial	-0.2355374	-0.0004118282	-0.002006877	-0.0003568701	0.001128263
CADMIUM	228.802	Axial	9.023038	0.000009420383	-0.0003975273	0.0003198768	0.0001059116
CHROMIUM	267.716	Axial	7.015545	0.006752156	0.005859064	0.007503463	0.006893941
COBALT	228.616	Axial	0.3753738	0.006353959	0.007799937	0.005773008	0.005488931
LEAD	220.353	Axial	17.12073	0.03894977	0.03970531	0.04036471	0.03677928
LITHIUM	670.784	Radial	1.039046	0.007889273	0.008202466	0.007167264	0.008298089
SELENIUM	196.090	Axial	-0.1576780	-0.002344885	-0.01630833	0.001437926	0.007835751
SILVER	328.068	Axial	-13.8400	0.0009975115	0.001273993	0.002358759	-0.0006402182
ALUMINUM	308.215	Radial	186.5989	3.368687	3.421530	3.365474	3.319057
ANTIMONY	206.833	Axial	1.144270	0.006039588	0.003571271	0.002410594	0.01213690
BERYLLIUM	313.042	Radial	10.35774	0.0004729095	0.0005190522	0.0004750653	0.0004246111
CALCIUM	373.690	Radial	20201.85	207.3740	207.3331	207.5028	207.2860
CERIUM	535.353	Radial	12.39976	-0.07138028	-0.06964862	-0.05142470	-0.09306752
COPPER	324.754	Axial	30.14940	0.009324875	0.008451786	0.008982110	0.01054073
IRON	259.940	Radial	2399.306	9.663035	9.628219	9.619287	9.741600
LANTHANUM	333.749	Radial	4.367482	0.01648979	0.01890848	0.01495920	0.01560169
MAGNESIUM	279.079	Radial	815.4485	9.727561	9.759999	9.744565	9.678117
MANGANESE	257.610	Axial	12799.72	0.5846265	0.5833128	0.5859428	0.5846239
MOLYBDENUM	202.030	Axial	2.047575	0.002191464	0.002102564	0.002345926	0.002125903
NICKEL	231.604	Axial	7.816802	0.007087234	0.005949146	0.006634596	0.008677958
PHOSPHORUS	177.495	Axial	55.15671	0.2845095	0.2857922	0.2813773	0.2863591
POTASSIUM	766.490	Radial	16.35932	0.3918711	0.3948042	0.3657051	0.4151041
SILICON	251.611	Axial	1739.428	1.651407	1.631231	1.650600	1.672389
SODIUM	589.592	Radial	80.89036	0.2370298	0.2332002	0.2366508	0.2412384
STRONTIUM	421.552	Radial	2027.209	0.1952344	0.1944515	0.1950208	0.1962309
SULFUR	182.034	Axial	33.85345	0.5875404	0.5724886	0.6024378	0.5876948
THALLIUM	190.856	Axial	-0.6755464	0.0004371929	0.0004290052	-0.001763587	0.002646160
TIN	189.989	Axial	-0.3628279	0.0005251767	-0.0004393885	0.001008159	0.001006760
TITANIUM	334.941	Radial	21.36490	0.01468229	0.01468950	0.01399777	0.01535959
VANADIUM	292.402	Radial	9.960264	0.01917342	0.01811391	0.01786805	0.02153830
ZINC	206.200	Axial	222.8826	0.09186681	0.09203574	0.09115276	0.09241192

Rows shaded in gray for analytes that were not ordered.

Sample ID: PS DF: 1x Ref Sample ID: L1838018-01 Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 15:02 Sequence: 207

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6562.356	6534.718	6594.449	6557.902
YTTRIUM	360.073	Axial	60844.69	60550.90	61007.84	60975.33
YTTRIUM	360.073	Radial	4801.583	4787.583	4795.000	4822.165
INDIUM	230.606	Axial	1186.113	1185.326	1187.494	1185.520

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	203.7468	1.006441	1.003246	1.013394	1.002681
BARIUM	233.527	Axial	8256.832	1.345496	1.351961	1.339728	1.344800
BORON	249.678	Radial	202.4556	0.9622514	0.9732131	0.9545419	0.9589993
CADMIUM	228.802	Axial	2080.725	0.9543159	0.9623619	0.9503454	0.9502402
CHROMIUM	267.716	Axial	2328.278	0.9821903	0.9963899	0.9729585	0.9772224
COBALT	228.616	Axial	977.6024	1.044204	1.046774	1.043505	1.042334
LEAD	220.353	Axial	475.0283	1.179969	1.191259	1.176755	1.171891
LITHIUM	670.784	Radial	1195.278	1.139744	1.137487	1.146440	1.135304
SELENIUM	196.090	Axial	89.32916	0.9752267	0.9775070	0.9860482	0.9621248
SILVER	328.068	Axial	711.1958	0.1903989	0.1899478	0.1925326	0.1887165
ALUMINUM	308.215	Radial	1546.278	26.80952	26.83326	26.87006	26.72523
ANTIMONY	206.833	Axial	132.2575	0.9359078	0.9285621	0.9313464	0.9478150
BERYLLIUM	313.042	Radial	15891.52	0.9853689	0.9853489	0.9877837	0.9829740
CALCIUM	373.690	Radial	99894.04	1005.020	1007.384	1008.523	999.1539
CERIUM	535.353	Radial	22.86222	0.04398945	0.06049539	0.05690885	0.01456411
COPPER	324.754	Axial	4331.375	1.008049	1.010746	1.007813	1.005587
IRON	271.441	Radial	1139.844	54.90908	55.23762	54.77056	54.71905
LANTHANUM	333.749	Radial	16.16673	0.03833246	0.03685872	0.03830054	0.03983811
MAGNESIUM	279.079	Radial	4784.675	55.79057	55.78765	56.04891	55.53517
MANGANESE	257.610	Axial	82974.81	3.783146	3.796344	3.776429	3.776666
MOLYBDENUM	202.030	Axial	660.9683	0.9637041	0.9745759	0.9573367	0.9591998
NICKEL	231.604	Axial	891.9364	1.044543	1.046613	1.045965	1.041052
PHOSPHORUS	177.495	Axial	451.5333	2.371331	2.434874	2.349775	2.329345
POTASSIUM	766.490	Radial	1252.555	13.21611	13.25913	13.26345	13.12575
SILICON	251.611	Axial	8193.627	7.992545	8.126733	7.913457	7.937445
SODIUM	589.592	Radial	4508.944	12.09898	12.10081	12.08422	12.11190
STRONTIUM	421.552	Radial	20844.08	1.973774	1.968636	1.977527	1.975159
SULFUR	182.034	Axial	636.2106	12.47560	12.79140	12.37392	12.26148
THALLIUM	190.856	Axial	172.3741	0.9754844	0.9911788	0.9667090	0.9685653
TIN	189.989	Axial	346.4549	0.9277874	0.9322765	0.9325792	0.9185066
TITANIUM	334.941	Radial	1731.925	1.031042	1.033314	1.036447	1.023363
VANADIUM	292.402	Radial	636.8425	1.042960	1.043843	1.043794	1.041243
ZINC	206.200	Axial	3454.412	1.444790	1.430706	1.461494	1.442169

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1838018-01 Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 15:03 Sequence: 208

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6674.858	6588.553	6771.398	6664.623
YTTRIUM	360.073	Axial	61707.89	61045.48	62374.35	61703.85
YTTRIUM	360.073	Radial	4828.409	4820.396	4821.809	4843.021
INDIUM	230.606	Axial	1198.499	1189.837	1208.693	1196.968

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	185.6811	0.9012829	0.9122856	0.8925898	0.8989733
BARIUM	233.527	Axial	7246.414	1.161109	1.162755	1.162612	1.157960
BORON	249.678	Radial	178.3842	0.8432123	0.8470404	0.8390522	0.8435445
CADMIUM	228.802	Axial	1891.466	0.8524782	0.8571619	0.8476949	0.8525779
CHROMIUM	267.716	Axial	2112.439	0.8764935	0.8764337	0.8774340	0.8756127
COBALT	228.616	Axial	946.5086	1.000779	0.9982716	1.003788	1.000278
LEAD	220.353	Axial	414.9723	1.020109	1.014441	1.024076	1.021810
LITHIUM	670.784	Radial	1070.670	1.015996	1.008140	1.022817	1.017030
SELENIUM	196.090	Axial	79.16989	0.8498202	0.8739202	0.8407905	0.8347500
SILVER	328.068	Axial	687.8370	0.1817862	0.1840137	0.1826191	0.1787258
ALUMINUM	308.215	Radial	1689.444	29.12216	29.12825	29.14868	29.08956
ANTIMONY	206.833	Axial	107.2319	0.7456414	0.7544616	0.7447257	0.7377370
BERYLLIUM	313.042	Radial	14094.83	0.8690861	0.8682507	0.8726786	0.8663290
CALCIUM	373.690	Radial	106894.0	1069.459	1067.947	1073.700	1066.731
CERIUM	535.353	Radial	23.61122	0.05088522	0.04852346	0.04068087	0.06345131
COPPER	324.754	Axial	3916.737	0.8990777	0.9036475	0.8988275	0.8947581
IRON	271.441	Radial	1042.106	49.92133	50.11082	49.88847	49.76469
LANTHANUM	333.749	Radial	16.41297	0.03862426	0.03629387	0.04036813	0.03921077
MAGNESIUM	279.079	Radial	4603.447	53.38033	53.51788	53.35977	53.26334
MANGANESE	257.610	Axial	88969.01	3.988142	4.009952	3.979304	3.975171
MOLYBDENUM	202.030	Axial	588.2696	0.8431692	0.8489853	0.8400404	0.8404820
NICKEL	231.604	Axial	809.7380	0.9383421	0.9386771	0.9405369	0.9358122
PHOSPHORUS	177.495	Axial	437.6978	2.259745	2.286573	2.238424	2.254239
POTASSIUM	766.490	Radial	1140.787	11.99055	12.03385	12.05715	11.88064
SILICON	251.611	Axial	16243.04	15.63166	15.61863	15.60453	15.67183
SODIUM	589.592	Radial	4106.024	10.95816	10.99330	10.95221	10.92898
STRONTIUM	421.552	Radial	15242.75	1.435145	1.413338	1.438575	1.453521
SULFUR	182.034	Axial	622.0953	11.98953	11.89004	11.91769	12.16086
THALLIUM	190.856	Axial	154.6642	0.8666849	0.8692574	0.8582017	0.8725956
TIN	189.989	Axial	337.2320	0.8938016	0.8919135	0.8952325	0.8942588
TITANIUM	334.941	Radial	1443.312	0.8547261	0.8484446	0.8553870	0.8603466
VANADIUM	292.402	Radial	553.2772	0.9014293	0.9062033	0.9039593	0.8941252
ZINC	206.200	Axial	2691.319	1.106455	1.130532	1.101077	1.087756

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1838018-01 Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 15:05 Sequence: 209

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6738.039	6713.902	6717.091	6783.124
YTTRIUM	360.073	Axial	62121.95	62395.88	61768.03	62201.94
YTTRIUM	360.073	Radial	4829.140	4863.856	4814.857	4808.706
INDIUM	230.606	Axial	1211.914	1205.174	1212.245	1218.324

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	202.1743	0.9724996	0.9774997	0.9767813	0.9632177
BARIUM	233.527	Axial	8360.009	1.326795	1.333097	1.321720	1.325570
BORON	249.678	Radial	196.4190	0.9282733	0.9220797	0.9227510	0.9399893
CADMIUM	228.802	Axial	2100.303	0.9380956	0.9387093	0.9385819	0.9369957
CHROMIUM	267.716	Axial	2387.055	0.9807003	0.9776291	0.9834086	0.9810631
COBALT	228.616	Axial	1058.617	1.106336	1.119187	1.095715	1.104104
LEAD	220.353	Axial	479.7990	1.166475	1.177992	1.160079	1.161353
LITHIUM	670.784	Radial	1187.584	1.126044	1.119384	1.131061	1.127686
SELENIUM	196.090	Axial	84.67364	0.9003123	0.9123543	0.9019033	0.8866791
SILVER	328.068	Axial	748.8146	0.1961981	0.1991880	0.1932936	0.1961128
ALUMINUM	308.215	Radial	2333.326	40.18618	40.05188	39.83678	40.66987
ANTIMONY	206.833	Axial	113.0504	0.7787810	0.7863489	0.7704768	0.7795174
BERYLLIUM	313.042	Radial	15719.31	0.9691325	0.9666341	0.9645203	0.9762431
CALCIUM	373.690	Radial	90132.54	901.6495	896.4508	899.0096	909.4881
CERIUM	535.353	Radial	24.90808	0.06548832	0.04657941	0.09425158	0.05563399
COPPER	324.754	Axial	4359.318	0.9937100	0.9983590	0.9909896	0.9917815
IRON	271.441	Radial	1401.102	67.10998	67.06783	66.58433	67.67778
LANTHANUM	333.749	Radial	18.44596	0.04238505	0.04440084	0.04070809	0.04204621
MAGNESIUM	279.079	Radial	5411.247	62.73207	62.71220	62.46581	63.01819
MANGANESE	257.610	Axial	112154.1	4.980047	5.032031	4.945529	4.962581
MOLYBDENUM	202.030	Axial	646.0955	0.9174173	0.9207199	0.9204673	0.9110647
NICKEL	231.604	Axial	899.2742	1.030719	1.036745	1.029736	1.025678
PHOSPHORUS	177.495	Axial	472.3179	2.415897	2.447273	2.409394	2.391023
POTASSIUM	766.490	Radial	1264.661	13.26684	13.22340	13.21125	13.36587
SILICON	251.611	Axial	23289.29	22.26791	22.03420	22.36189	22.40762
SODIUM	589.592	Radial	4488.104	11.97457	11.97037	11.89293	12.06041
STRONTIUM	421.552	Radial	16632.70	1.565916	1.553631	1.562717	1.581399
SULFUR	182.034	Axial	653.2178	12.47482	12.52572	12.50116	12.39757
THALLIUM	190.856	Axial	170.8964	0.9466687	0.9526027	0.9487721	0.9386313
TIN	189.989	Axial	372.7002	0.9767636	0.9819213	0.9734773	0.9748923
TITANIUM	334.941	Radial	1602.203	0.9485322	0.9393365	0.9483520	0.9579081
VANADIUM	292.402	Radial	632.0037	1.029177	1.024939	1.025347	1.037246
ZINC	206.200	Axial	2955.335	1.203650	1.217511	1.201858	1.191582

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838018-02 DF: 1x Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 15:07 Sequence: 210

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6850.081	6790.656	6851.050	6908.536
YTTRIUM	360.073	Axial	63840.57	63012.91	64547.10	63961.70
YTTRIUM	360.073	Radial	4855.710	4834.170	4884.440	4848.518
INDIUM	230.606	Axial	1257.144	1244.997	1262.538	1263.898

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	6.920626	0.02752588	0.03191658	0.02336901	0.02729206
BARIUM	233.527	Axial	3514.357	0.5494264	0.5463814	0.5560726	0.5458251
BORON	249.678	Radial	0.1863697	0.001603476	-0.001565809	0.002348491	0.004027746
CADMIUM	228.802	Axial	8.954053	-0.0002000661	-0.0004837295	0.0002412995	-0.0003577684
CHROMIUM	267.716	Axial	127.8943	0.05528910	0.05524426	0.05675583	0.05386720
COBALT	228.616	Axial	37.40205	0.04346364	0.04257061	0.04426430	0.04355601
LEAD	220.353	Axial	33.61510	0.07876899	0.07853067	0.07916621	0.07861007
LITHIUM	670.784	Radial	23.71850	0.02912484	0.02932833	0.02497004	0.03307617
SELENIUM	196.090	Axial	-0.1264042	-0.001956057	0.001903170	-0.006578040	-0.001193300
SILVER	328.068	Axial	-9.23071	0.002239685	0.002540116	0.002514425	0.001664514
ALUMINUM	308.215	Radial	1837.131	31.48367	31.54950	31.45462	31.44688
ANTIMONY	206.833	Axial	1.041192	0.004971518	0.001692639	0.007280961	0.005940955
BERYLLIUM	313.042	Radial	59.21177	0.003448622	0.003479981	0.003483054	0.003382831
CALCIUM	373.690	Radial	62480.74	621.6133	624.2493	620.1714	620.4192
CERIUM	535.353	Radial	26.32740	0.07970444	0.05377684	0.08818948	0.09714700
COPPER	324.754	Axial	226.6142	0.05261831	0.05283238	0.05234975	0.05267281
IRON	271.441	Radial	1937.373	92.29082	92.75029	91.93419	92.18799
LANTHANUM	333.749	Radial	26.44480	0.05696471	0.05894897	0.05656811	0.05537705
MAGNESIUM	279.079	Radial	2547.324	29.38702	29.54130	29.33008	29.28967
MANGANESE	257.610	Axial	65942.06	2.880449	2.875220	2.908418	2.857711
MOLYBDENUM	202.030	Axial	4.133153	0.004986298	0.006109410	0.005373968	0.003475517
NICKEL	231.604	Axial	65.59641	0.07126048	0.07106872	0.07274061	0.06997211
PHOSPHORUS	177.495	Axial	446.7039	2.247034	2.236600	2.280259	2.224243
POTASSIUM	766.490	Radial	573.5990	6.104301	6.090290	6.122072	6.100541
SILICON	251.611	Axial	22801.52	21.21555	21.43206	20.96427	21.25032
SODIUM	589.592	Radial	503.2162	1.349368	1.358839	1.359678	1.329586
STRONTIUM	421.552	Radial	13147.19	1.230843	1.234967	1.220149	1.237414
SULFUR	182.034	Axial	127.1418	2.322429	2.280763	2.317190	2.369335
THALLIUM	190.856	Axial	-1.45450	-0.003815696	-0.006276533	-0.0004378343	-0.004732722
TIN	189.989	Axial	0.4842866	0.002624710	0.0006329505	0.004970133	0.002271046
TITANIUM	334.941	Radial	413.9002	0.2449635	0.2488258	0.2498837	0.2361810
VANADIUM	292.402	Radial	66.83727	0.1105449	0.1097344	0.1123262	0.1095740
ZINC	206.200	Axial	520.9198	0.2074317	0.2095128	0.2098186	0.2029638

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838018-03 DF: 1x Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 15:09 Sequence: 211

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6907.600	6918.515	6989.552	6814.734
YTTRIUM	360.073	Axial	64766.75	65027.69	65194.96	64077.61
YTTRIUM	360.073	Radial	4879.863	4935.552	4848.548	4855.488
INDIUM	230.606	Axial	1324.120	1334.880	1332.720	1304.758

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	3.682893	0.01194217	0.01046562	0.01519264	0.01016826
BARIUM	233.527	Axial	4605.793	0.7137123	0.7146483	0.7063670	0.7201216
BORON	249.678	Radial	0.7132245	0.004078805	0.001388849	-0.0001880249	0.01103559
CADMIUM	228.802	Axial	12.54361	0.001335487	0.0008251940	0.001966231	0.001215035
CHROMIUM	267.716	Axial	78.09599	0.03497718	0.03531516	0.03474132	0.03487505
COBALT	228.616	Axial	42.35773	0.04630389	0.04383155	0.04651390	0.04856624
LEAD	220.353	Axial	92.58101	0.2060120	0.2038861	0.2053777	0.2087723
LITHIUM	670.784	Radial	8.161297	0.01450477	0.01287263	0.01370422	0.01693746
SELENIUM	196.090	Axial	0.3912990	0.003444641	-0.001128970	0.003094761	0.008368131
SILVER	328.068	Axial	-9.72071	0.002149498	0.001844555	0.002776678	0.001827261
ALUMINUM	308.215	Radial	1425.867	24.33266	24.26725	24.40629	24.32445
ANTIMONY	206.833	Axial	1.282866	0.006558424	-0.002721724	0.01145996	0.01093703
BERYLLIUM	313.042	Radial	67.30651	0.003924961	0.003873582	0.003962058	0.003939243
CALCIUM	373.690	Radial	15173.47	150.2391	149.3339	150.6170	150.7663
CERIUM	535.353	Radial	23.03201	0.04190834	-0.0006134260	0.05404941	0.07228904
COPPER	324.754	Axial	519.3612	0.1157498	0.1160785	0.1150761	0.1160949
IRON	271.441	Radial	1465.745	69.47716	69.31390	69.52241	69.59516
LANTHANUM	333.749	Radial	28.04403	0.05963675	0.06279746	0.05526715	0.06084562
MAGNESIUM	279.079	Radial	730.0203	8.403757	8.376550	8.418807	8.415913
MANGANESE	257.610	Axial	74446.95	3.224997	3.226797	3.194332	3.253862
MOLYBDENUM	202.030	Axial	3.616650	0.004217094	0.003500704	0.004352970	0.004797608
NICKEL	231.604	Axial	52.33640	0.05368145	0.05294749	0.05178086	0.05631600
PHOSPHORUS	177.495	Axial	407.5748	2.032801	2.033023	1.999051	2.066329
POTASSIUM	766.490	Radial	257.2271	2.845383	2.785716	2.871448	2.878985
SILICON	251.611	Axial	10218.60	9.365601	9.345073	9.369293	9.382436
SODIUM	589.592	Radial	682.8867	1.816532	1.817882	1.811323	1.820392
STRONTIUM	421.552	Radial	3392.729	0.3155791	0.3109267	0.3177094	0.3181013
SULFUR	182.034	Axial	107.1946	1.928626	1.917488	1.939954	1.928435
THALLIUM	190.856	Axial	-1.45716	-0.003408296	-0.001785924	-0.007777060	-0.0006619055
TIN	189.989	Axial	0.3905700	0.002340866	0.002941277	0.002647786	0.001433533
TITANIUM	334.941	Radial	231.6132	0.1371709	0.1372387	0.1372744	0.1369997
VANADIUM	292.402	Radial	56.86149	0.09397755	0.09422123	0.09135476	0.09635667
ZINC	206.200	Axial	1438.981	0.5709384	0.5749224	0.5588058	0.5790869

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838018-04 DF: 1x Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 15:10 Sequence: 212

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7124.971	7100.469	7213.387	7061.056
YTTRIUM	360.073	Axial	66856.50	66167.60	67501.88	66900.03
YTTRIUM	360.073	Radial	4994.788	4981.997	5004.946	4997.421
INDIUM	230.606	Axial	1357.470	1347.991	1371.562	1352.859

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.877767	0.02148251	0.02194934	0.01985566	0.02264255
BARIUM	233.527	Axial	5808.156	0.8722012	0.8696962	0.8726670	0.8742404
BORON	249.678	Radial	-0.7865648	-0.002850092	0.003857727	-0.004615701	-0.007792303
CADMIUM	228.802	Axial	14.37491	0.001948349	0.001436532	0.001993983	0.002414533
CHROMIUM	267.716	Axial	122.5239	0.05122299	0.05012380	0.05115356	0.05239161
COBALT	228.616	Axial	62.25911	0.06376082	0.06327025	0.06430489	0.06370733
LEAD	220.353	Axial	51.60593	0.1119849	0.1106959	0.1140066	0.1112521
LITHIUM	670.784	Radial	14.94334	0.02050541	0.02472407	0.01896417	0.01782799
SELENIUM	196.090	Axial	0.1752572	0.001095088	-0.006968133	0.006828747	0.003424650
SILVER	328.068	Axial	-6.95056	0.002891494	0.003682242	0.001708790	0.003283449
ALUMINUM	308.215	Radial	2297.412	38.25855	38.34499	38.37428	38.05637
ANTIMONY	206.833	Axial	1.296973	0.006381255	0.01075129	0.005319257	0.003073215
BERYLLIUM	313.042	Radial	94.87756	0.005473956	0.005482303	0.005375170	0.005564394
CALCIUM	373.690	Radial	12720.65	123.0567	123.5028	122.7622	122.9051
CERIUM	535.353	Radial	27.02268	0.07910547	0.06304276	0.06011210	0.1141616
COPPER	324.754	Axial	362.7035	0.07910423	0.07925558	0.08050083	0.07755628
IRON	271.441	Radial	1970.645	91.26073	91.68663	91.68718	90.40839
LANTHANUM	333.749	Radial	35.27585	0.07144347	0.07146687	0.06854232	0.07432121
MAGNESIUM	279.079	Radial	1152.552	12.94450	13.04742	12.98052	12.80556
MANGANESE	257.610	Axial	48923.74	2.054797	2.036917	2.054116	2.073357
MOLYBDENUM	202.030	Axial	3.587214	0.004027666	0.003965639	0.003267475	0.004849885
NICKEL	231.604	Axial	84.21131	0.08497098	0.08451267	0.08449489	0.08590538
PHOSPHORUS	177.495	Axial	670.6937	3.246635	3.285651	3.185905	3.268351
POTASSIUM	766.490	Radial	535.3094	5.558537	5.564542	5.555332	5.555738
SILICON	251.611	Axial	20042.61	17.80395	17.80628	17.87517	17.73038
SODIUM	589.592	Radial	264.8892	0.6983082	0.7121965	0.6841318	0.6985963
STRONTIUM	421.552	Radial	2917.895	0.2650388	0.2657004	0.2649861	0.2644300
SULFUR	182.034	Axial	166.8706	2.952220	2.929706	2.942712	2.984242
THALLIUM	190.856	Axial	-1.46335	-0.003299909	0.0002809219	0.002725619	-0.01290627
TIN	189.989	Axial	0.05172318	0.001533521	0.0009739001	0.001259635	0.002367027
TITANIUM	334.941	Radial	376.5999	0.2168912	0.2192794	0.2164594	0.2149347
VANADIUM	292.402	Radial	83.78797	0.1341631	0.1331391	0.1338821	0.1354681
ZINC	206.200	Axial	5111.499	1.969961	2.007801	1.918867	1.983215

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/21/25 15:12 Sequence: 213 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6483.068	6577.803	6485.331	6386.072
YTTRIUM	360.073	Axial	61287.71	61857.93	61162.06	60843.16
YTTRIUM	360.073	Radial	4635.270	4632.467	4631.003	4642.340
INDIUM	230.606	Axial	1280.527	1291.390	1275.476	1274.716

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	555.3148	10.02220	10.01764	10.04604	10.00294
ANTIMONY	206.833	Axial	71.13658	0.5086285	0.5047620	0.5096409	0.5114826
ARSENIC	189.042	Axial	203.0552	1.015459	1.003901	1.017661	1.024815
BARIUM	233.527	Axial	3117.236	0.5150677	0.5101804	0.5140373	0.5209855
BERYLLIUM	313.042	Radial	3175.731	0.2038342	0.2040285	0.2042026	0.2032715
BORON	249.678	Radial	205.8926	1.013651	1.008583	1.022855	1.009516
CADMIUM	228.802	Axial	1083.601	0.5011113	0.4996868	0.5007652	0.5028819
CALCIUM	373.690	Radial	5051.663	52.67658	52.73799	52.71999	52.57174
CHROMIUM	267.716	Axial	2352.463	1.004457	0.9995106	1.004678	1.009181
COBALT	228.616	Axial	993.0835	0.9828843	0.9829621	0.9827939	0.9828968
COPPER	324.754	Axial	4429.638	1.023445	1.018739	1.024954	1.026641
IRON	259.940	Radial	2625.015	10.73544	10.73410	10.75055	10.72165
LEAD	220.353	Axial	215.9467	0.4968537	0.4965499	0.4988612	0.4951499
LITHIUM	670.784	Radial	1041.759	1.029665	1.033704	1.031368	1.023922
MAGNESIUM	279.079	Radial	860.7397	10.42328	10.40187	10.45615	10.41181
MANGANESE	257.610	Axial	22062.74	1.018781	1.011227	1.013971	1.031144
MOLYBDENUM	202.030	Axial	170.7442	0.2514091	0.2496983	0.2522300	0.2522990
NICKEL	231.604	Axial	895.9967	0.9718498	0.9701137	0.9740459	0.9713898
PHOSPHORUS	177.495	Axial	188.4119	0.9981397	0.9848369	0.9944073	1.015175
POTASSIUM	766.490	Radial	4750.477	51.28095	51.09047	51.54234	51.21005
SELENIUM	196.090	Axial	90.65378	1.002047	0.9885251	0.9850296	1.032587
SILICON	251.611	Axial	2082.455	2.009172	2.006366	2.014919	2.006230
SILVER	328.068	Axial	1973.292	0.5165546	0.5078356	0.5161599	0.5256684
SODIUM	818.326	Radial	431.8722	49.44309	49.38642	49.62639	49.31646
STRONTIUM	421.552	Radial	10528.84	1.032458	1.031340	1.033495	1.032537
SULFUR	182.034	Axial	244.4837	4.803087	4.783807	4.812431	4.813023
THALLIUM	190.856	Axial	195.4271	1.024236	1.015489	1.029756	1.027464
TIN	189.989	Axial	198.9031	0.4940447	0.4930206	0.5005167	0.4885967
TITANIUM	334.941	Radial	1645.443	1.014715	1.012601	1.016341	1.015205
VANADIUM	292.402	Radial	598.4574	1.015329	1.012465	1.019537	1.013984
ZINC	206.200	Axial	2439.079	1.032368	1.019837	1.024334	1.052934
CERIUM	535.353	Radial	13.34903	-0.05813210	-0.08682720	-0.04901897	-0.03855013
LANTHANUM	333.749	Radial	-6.90840	-0.005176774	-0.006034273	-0.003622577	-0.005873472

Sample ID: CCB Units: mg/l
Analyzed: 03/21/25 15:14 Sequence: 214

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6486.147	6470.886	6458.293	6529.263
YTTRIUM	360.073	Axial	63227.73	62952.85	63473.59	63256.76
YTTRIUM	360.073	Radial	4671.835	4643.686	4694.707	4677.112
INDIUM	230.606	Axial	1376.923	1367.266	1383.184	1380.318

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-1.98766	0.04222244	0.04285937	0.04397604	0.03983193
ANTIMONY	206.833	Axial	0.9975788	0.005077329	0.01531560	-0.0007444076	0.0006607928
ARSENIC	189.042	Axial	1.370040	0.001461279	-0.006902821	0.005966752	0.005319905
BARIUM	233.527	Axial	-4.06204	0.0006885475	0.0008656859	0.0008766259	0.0003233306
BERYLLIUM	313.042	Radial	3.956885	0.00006970886	0.0001292522	0.0001555374	-0.00007566303
BORON	249.678	Radial	-0.8663182	-0.003495633	-0.005088465	-0.006345347	0.0009469120
CADMIUM	228.802	Axial	6.771880	-0.0009906846	-0.0005882691	-0.0001495230	-0.002234262
CALCIUM	317.933	Radial	14.01848	0.01074649	0.004379857	0.02016190	0.007697729
CERIUM	535.353	Radial	13.64054	-0.05607497	-0.08178493	-0.01134676	-0.07509322
CHROMIUM	267.716	Axial	-7.85350	0.0004650716	0.001018484	0.0009040406	-0.0005273098
COBALT	228.616	Axial	-7.41320	-0.0007874229	-0.00004690075	-0.002035653	-0.0002797144
COPPER	324.754	Axial	-4.30182	0.001514279	0.001800146	0.001425843	0.001316848
IRON	259.940	Radial	2.880722	0.006415737	0.006552549	0.008081975	0.004612687
LANTHANUM	333.749	Radial	-0.1472650	0.007884691	0.006683393	0.01108521	0.005885467
LEAD	220.353	Axial	0.9674680	0.002047218	-0.0007192240	0.004423893	0.002436986
LITHIUM	670.784	Radial	-1.80013	0.005119657	0.0007608400	0.006479500	0.008118632
MAGNESIUM	279.079	Radial	-2.50579	0.002836454	-0.02135773	0.02641729	0.003449807
MANGANESE	257.610	Axial	-12.1871	0.00006835120	0.0001725857	0.0001976399	-0.0001651721
MOLYBDENUM	202.030	Axial	1.452844	0.001340966	0.0008691883	0.0003701704	0.002783539
NICKEL	231.604	Axial	1.013236	-0.0002843159	-0.0004066279	-0.003005885	0.002559565
PHOSPHORUS	177.495	Axial	1.289020	0.0007203318	0.001501602	0.0007787192	-0.0001193263
POTASSIUM	766.490	Radial	-23.7186	-0.03431547	-0.03174137	0.04799265	-0.1191977
SELENIUM	196.090	Axial	0.2941298	0.002620526	0.003450152	0.005192019	-0.0007805927
SILICON	251.611	Axial	12.58007	0.001904325	0.001550381	0.0005386288	0.003623967
SILVER	328.068	Axial	-16.3887	0.0004171408	0.0001362675	-0.0004517506	0.001566906
SODIUM	589.592	Radial	-29.7734	-0.06612170	-0.06396576	-0.05298878	-0.08141055
STRONTIUM	421.552	Radial	4.499389	-0.0002274926	0.0002284134	-0.0003544022	-0.0005564891
SULFUR	182.034	Axial	3.580788	-0.009696493	-0.01898669	-0.005352232	-0.004750556
THALLIUM	190.856	Axial	-1.40214	-0.002870314	0.0004788163	0.002044847	-0.01113461
TIN	189.989	Axial	-0.7844703	-0.0003981075	-0.001129850	0.001017960	-0.001082433
TITANIUM	334.941	Radial	-3.54282	-0.0004347229	-0.00004600189	0.0008190430	-0.002077210
VANADIUM	292.402	Radial	-2.47052	-0.001574881	-0.002963128	-0.000001547096	-0.001759969
ZINC	206.200	Axial	4.388133	0.0003244041	0.00003647396	0.001072333	-0.0001355941

Sample ID: L1838104-01 DF: 1x Batch: WG2473428 Units: mg/kg
Analyzed: 03/21/25 15:17 Sequence: 216

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6834.875	6797.492	6856.361	6850.772
YTTRIUM	360.073	Axial	65117.34	65394.23	65230.23	64727.57
YTTRIUM	360.073	Radial	4917.407	4952.590	4880.370	4919.261
INDIUM	230.606	Axial	1353.313	1356.147	1355.071	1348.722

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ANTIMONY	206.833	Axial	0.7499457	0.002984847	-0.007987608	0.01408249	0.002859661
ARSENIC	189.042	Axial	4.512423	0.01609775	0.01466213	0.01996046	0.01367067
BARIUM	233.527	Axial	8945.728	1.399581	1.408404	1.400277	1.390064
BERYLLIUM	313.042	Radial	28.46004	0.001541263	0.001455522	0.001604807	0.001563461
CADMIUM	228.802	Axial	8.341122	-0.0004608362	-0.0001056289	-0.001204345	-0.00007253461
CHROMIUM	267.716	Axial	26.19152	0.01436908	0.01490367	0.01433591	0.01386765
LEAD	220.353	Axial	25.19699	0.05484736	0.05420383	0.05366060	0.05667764
NICKEL	231.604	Axial	18.61791	0.01782386	0.01747625	0.01851049	0.01748484
SELENIUM	196.090	Axial	-0.3686985	-0.004515391	-0.006837104	-0.005544818	-0.001164253
SILVER	328.068	Axial	-15.8462	0.0006666027	0.001150187	0.0008312807	0.00001834086
SULFUR	182.034	Axial	348.7988	6.528372	6.584275	6.499105	6.501736
ALUMINUM	308.215	Radial	814.2239	13.82243	13.74828	13.86170	13.85732
BORON	249.678	Radial	36.17230	0.1684928	0.1637743	0.1703652	0.1713387
CALCIUM	373.690	Radial	6935.184	68.15849	68.32057	68.23401	67.92090
CERIUM	535.353	Radial	17.43680	-0.02197945	-0.007047879	-0.003100266	-0.05579020
COBALT	228.616	Axial	2.204703	0.008041709	0.008403843	0.008645438	0.007075846
COPPER	324.754	Axial	171.7142	0.03972594	0.03942608	0.03938473	0.04036702
IRON	259.940	Radial	4985.103	19.22214	19.13299	19.26616	19.26728
LANTHANUM	333.749	Radial	16.27527	0.03782023	0.03967943	0.03822953	0.03555174
LITHIUM	670.784	Radial	-3.64194	0.003509269	0.007112559	0.004488410	-0.001073161
MAGNESIUM	279.079	Radial	927.9883	10.59242	10.55844	10.59682	10.62199
MANGANESE	257.610	Axial	7880.363	0.3455476	0.3481821	0.3446449	0.3438158
MOLYBDENUM	202.030	Axial	3.080491	0.003521146	0.005113636	0.002886072	0.002563728
PHOSPHORUS	177.495	Axial	248.5471	1.250364	1.274964	1.241134	1.234994
POTASSIUM	766.490	Radial	139.9165	1.636319	1.641996	1.615322	1.651638
SILICON	251.611	Axial	9435.349	8.600402	8.565055	8.604650	8.631501
SODIUM	589.592	Radial	886.0133	2.334306	2.329791	2.327754	2.345374
STRONTIUM	421.552	Radial	11432.29	1.056749	1.056406	1.058177	1.055665
THALLIUM	190.856	Axial	-1.29534	-0.002466746	-0.002111474	-0.004109176	-0.001179587
TIN	189.989	Axial	0.6091723	0.002839755	0.002381346	0.003339770	0.002798148
TITANIUM	334.941	Radial	884.0269	0.5147215	0.5186627	0.5115584	0.5139434
VANADIUM	292.402	Radial	33.29747	0.05570817	0.05255166	0.05851877	0.05605409
ZINC	206.200	Axial	214.2039	0.08457829	0.08569355	0.08483955	0.08320176

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838018-05 DF: 1x Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 15:20 Sequence: 218

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6919.508	6901.556	6870.529	6986.438
YTTRIUM	360.073	Axial	64600.44	64339.73	64207.64	65253.96
YTTRIUM	360.073	Radial	4925.548	4966.378	4891.610	4918.656
INDIUM	230.606	Axial	1300.240	1296.208	1293.189	1311.323

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.376728	0.01519635	0.01796469	0.01247081	0.01515353
BARIUM	233.527	Axial	6085.611	0.9409126	0.9411251	0.9441900	0.9374226
BORON	249.678	Radial	2.491805	0.01227521	0.01187153	0.01468968	0.01026441
CADMIUM	228.802	Axial	11.70504	0.0009592592	0.0007018602	0.0005727311	0.001603186
CHROMIUM	267.716	Axial	87.60307	0.03871004	0.03760530	0.03917334	0.03935146
COBALT	228.616	Axial	23.03423	0.02830161	0.02883546	0.02683071	0.02923868
LEAD	220.353	Axial	49.24488	0.1115813	0.1118542	0.1125623	0.1103274
LITHIUM	670.784	Radial	13.16289	0.01905472	0.01699829	0.01981534	0.02035054
SELENIUM	196.090	Axial	-0.2962555	-0.003661590	-0.008427732	0.008816515	-0.01137355
SILVER	328.068	Axial	-7.78031	0.002615038	0.002890616	0.0008831154	0.004071382
ALUMINUM	308.215	Radial	1716.384	29.00377	28.95092	29.15963	28.90078
ANTIMONY	206.833	Axial	0.7675238	0.003048269	0.003341463	-0.001444401	0.007247745
BERYLLIUM	313.042	Radial	60.43679	0.003471305	0.003466321	0.003492626	0.003454968
CALCIUM	373.690	Radial	31113.66	305.1775	303.6206	306.6370	305.2750
CERIUM	535.353	Radial	26.16136	0.07398604	0.01660078	0.09998885	0.1053685
COPPER	324.754	Axial	300.5085	0.06818576	0.06896312	0.06774348	0.06785068
IRON	271.441	Radial	1191.404	55.94866	55.87070	56.19371	55.78156
LANTHANUM	333.749	Radial	36.78553	0.07508638	0.07415604	0.07853025	0.07257284
MAGNESIUM	279.079	Radial	1820.737	20.71708	20.63026	20.88467	20.63631
MANGANESE	257.610	Axial	50763.25	2.195298	2.203598	2.192492	2.189805
MOLYBDENUM	202.030	Axial	2.811547	0.003092193	0.005114301	0.001670463	0.002491815
NICKEL	231.604	Axial	46.38619	0.04830840	0.04931098	0.04767074	0.04794348
PHOSPHORUS	177.495	Axial	637.6310	3.177943	3.225016	3.176793	3.132019
POTASSIUM	766.490	Radial	537.5760	5.656650	5.629744	5.679352	5.660853
SILICON	251.611	Axial	15952.65	14.66473	14.65349	14.78699	14.55373
SODIUM	589.592	Radial	347.2547	0.9230762	0.9186628	0.9305754	0.9199904
STRONTIUM	421.552	Radial	9470.165	0.8738351	0.8699515	0.8788207	0.8727330
SULFUR	182.034	Axial	295.0264	5.441128	5.473126	5.457542	5.392718
THALLIUM	190.856	Axial	-1.27795	-0.002654241	-0.003351348	-0.005041384	0.0004300082
TIN	189.989	Axial	0.5841048	0.002835932	0.0008184790	0.004325137	0.003364179
TITANIUM	334.941	Radial	540.9234	0.3151204	0.3136295	0.3160560	0.3156756
VANADIUM	292.402	Radial	60.38930	0.09874925	0.09895330	0.09840913	0.09888532
ZINC	206.200	Axial	822.6609	0.3251446	0.3275718	0.3249922	0.3228697

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838018-06 DF: 1x Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 15:22 Sequence: 219

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6596.528	6624.803	6614.658	6550.122
YTTRIUM	360.073	Axial	61072.05	61369.96	60792.78	61053.42
YTTRIUM	360.073	Radial	4879.150	4891.725	4921.326	4824.399
INDIUM	230.606	Axial	1161.352	1161.891	1160.256	1161.908

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	6.453342	0.02647168	0.02773890	0.02426612	0.02741002
BARIUM	233.527	Axial	5999.166	0.9729085	0.9710363	0.9711841	0.9765051
BORON	249.678	Radial	14.92646	0.07048129	0.07609987	0.06869616	0.06664785
CADMIUM	228.802	Axial	31.57041	0.01031513	0.01105291	0.009749165	0.01014331
CHROMIUM	267.716	Axial	90.94336	0.04181906	0.04201684	0.04115300	0.04228734
COBALT	228.616	Axial	28.03224	0.03639650	0.03453759	0.03714765	0.03750426
LEAD	220.353	Axial	98.38071	0.2495757	0.2492913	0.2460940	0.2533419
LITHIUM	670.784	Radial	20.91176	0.02640457	0.02702263	0.02373672	0.02845435
SELENIUM	196.090	Axial	0.1474011	0.0009431469	0.008241113	-0.002454565	-0.002957107
SILVER	328.068	Axial	0.7446209	0.004732972	0.003641518	0.004063877	0.006493522
ALUMINUM	308.215	Radial	1551.006	26.46604	26.39204	26.33058	26.67551
ANTIMONY	206.833	Axial	1.338888	0.007330953	0.01223394	0.009388559	0.0003703608
BERYLLIUM	313.042	Radial	54.90897	0.003168077	0.003142781	0.003268552	0.003092896
CALCIUM	373.690	Radial	161915.4	1603.117	1601.404	1597.702	1610.244
CERIUM	535.353	Radial	21.25896	0.02220295	0.004097179	0.003914310	0.05859737
COPPER	324.754	Axial	358.4139	0.08537364	0.08511548	0.08479484	0.08621060
IRON	271.441	Radial	1506.544	71.42374	71.22705	71.09901	71.94516
LANTHANUM	333.749	Radial	33.53338	0.06975386	0.06793353	0.06926278	0.07206528
MAGNESIUM	279.079	Radial	9026.062	103.5471	103.4484	103.1406	104.0523
MANGANESE	257.610	Axial	80551.28	3.653645	3.661204	3.636623	3.663107
MOLYBDENUM	202.030	Axial	10.39303	0.01429442	0.01380508	0.01285669	0.01622150
NICKEL	231.604	Axial	78.39042	0.09256749	0.09398848	0.09063004	0.09308396
PHOSPHORUS	177.495	Axial	675.2501	3.530656	3.526979	3.545105	3.519885
POTASSIUM	766.490	Radial	492.2867	5.245754	5.234522	5.253898	5.248842
SILICON	251.611	Axial	17553.31	17.06969	17.01411	17.24527	16.94968
SODIUM	589.592	Radial	690.1281	1.835886	1.841069	1.834754	1.831835
STRONTIUM	421.552	Radial	22333.00	2.081298	2.070550	2.071746	2.101597
SULFUR	182.034	Axial	766.3364	14.96498	14.84817	15.06092	14.98584
THALLIUM	190.856	Axial	-2.06877	-0.007979329	0.0007179416	-0.009706984	-0.01494894
TIN	189.989	Axial	0.6820774	0.003274406	0.004475264	0.002504287	0.002843668
TITANIUM	334.941	Radial	1315.110	0.7709109	0.7678493	0.7690006	0.7758827
VANADIUM	292.402	Radial	57.21906	0.09458379	0.09352357	0.09298492	0.09724289
ZINC	206.200	Axial	4047.735	1.684520	1.686890	1.670818	1.695851

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838018-07 DF: 1x Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 15:24 Sequence: 220

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6701.998	6732.366	6632.130	6741.499
YTTRIUM	360.073	Axial	59963.80	59998.40	59777.01	60115.98
YTTRIUM	360.073	Radial	4876.703	4838.692	4867.058	4924.358
INDIUM	230.606	Axial	1119.922	1114.379	1121.920	1123.467

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	19.72521	0.09051960	0.09097092	0.09289383	0.08769405
BARIUM	233.527	Axial	106390.0	16.95951	16.96331	16.93750	16.97772
BORON	249.678	Radial	557.2358	2.606446	2.606726	2.616611	2.596002
CADMIUM	228.802	Axial	20.62598	0.005153888	0.005870858	0.005426365	0.004164442
CHROMIUM	267.716	Axial	660.3543	0.2755077	0.2741252	0.2763568	0.2760411
COBALT	228.616	Axial	115.6340	0.1360550	0.1372295	0.1345997	0.1363358
LEAD	220.353	Axial	56.17597	0.1477714	0.1464706	0.1432405	0.1536031
LITHIUM	670.784	Radial	175.9330	0.1710767	0.1771692	0.1659607	0.1701003
SELENIUM	196.090	Axial	-0.9266714	-0.01057248	-0.009569133	-0.01387948	-0.008268821
SILVER	328.068	Axial	0.6832196	0.004719914	0.004842576	0.004982380	0.004334786
ALUMINUM	308.215	Radial	18011.62	306.6568	305.4488	306.8291	307.6924
ANTIMONY	206.833	Axial	-4.47565	-0.03311867	-0.04166283	-0.02274224	-0.03495093
BERYLLIUM	313.042	Radial	233.9580	0.01410307	0.01400995	0.01416506	0.01413420
CALCIUM	373.690	Radial	120873.8	1197.384	1200.717	1203.191	1188.243
CERIUM	535.353	Radial	47.50958	0.3139046	0.2935252	0.3049354	0.3432532
COPPER	324.754	Axial	2781.873	0.6577955	0.6594011	0.6553278	0.6586577
IRON	271.441	Radial	2645.227	125.4682	125.5503	125.3758	125.4785
LANTHANUM	333.749	Radial	53.33468	0.1061242	0.1006992	0.1083823	0.1092911
MAGNESIUM	279.079	Radial	8149.818	93.54155	93.60245	93.30916	93.71305
MANGANESE	257.610	Axial	15267.24	0.6821004	0.6823014	0.6820037	0.6819963
MOLYBDENUM	202.030	Axial	31.04762	0.04355839	0.04445738	0.04291735	0.04330044
NICKEL	231.604	Axial	170.5894	0.2105384	0.2098197	0.2107518	0.2110436
PHOSPHORUS	177.495	Axial	3292.527	16.96903	16.84926	17.14656	16.91125
POTASSIUM	766.490	Radial	1100.236	11.45981	11.47367	11.51496	11.39080
SILICON	251.611	Axial	162949.8	161.4682	161.4961	160.7720	162.1365
SODIUM	818.326	Radial	266.5793	28.72217	28.79406	29.13261	28.23983
STRONTIUM	421.552	Radial	112030.5	10.44799	10.46146	10.44754	10.43497
SULFUR	182.034	Axial	12537.66	242.2202	240.0363	245.0424	241.5820
THALLIUM	190.856	Axial	-0.5153867	0.0008476723	-0.001849206	0.003646483	0.0007457394
TIN	189.989	Axial	5.356942	0.01657921	0.01558909	0.01529476	0.01885380
TITANIUM	334.941	Radial	37854.13	22.15221	22.29028	21.95301	22.21333
VANADIUM	292.402	Radial	593.3293	0.9569303	0.9519214	0.9618863	0.9569831
ZINC	206.200	Axial	1460.099	0.5970886	0.5939465	0.6000519	0.5972673

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1838018-08 DF: 1x Batch: WG2473544 Units: mg/kg
Analyzed: 03/21/25 15:25 Sequence: 221

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6814.025	6878.121	6814.101	6749.852
YTTRIUM	360.073	Axial	65144.24	65102.06	65644.28	64686.38
YTTRIUM	360.073	Radial	4797.862	4792.962	4781.265	4819.360
INDIUM	230.606	Axial	1360.825	1359.190	1365.381	1357.904

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	8.859066	0.03695486	0.03826481	0.03530663	0.03729315
BARIUM	233.527	Axial	3671.291	0.5769464	0.5735424	0.5781843	0.5791124
BORON	249.678	Radial	-0.4125969	-0.001226866	0.005625448	-0.005605834	-0.003700212
CADMIUM	228.802	Axial	19.58104	0.004535196	0.004529087	0.004668495	0.004408006
CHROMIUM	267.716	Axial	127.7067	0.05548156	0.05523707	0.05603132	0.05517631
COBALT	228.616	Axial	65.87271	0.06696549	0.06644988	0.06756433	0.06688228
LEAD	220.353	Axial	57.07275	0.1235507	0.1204186	0.1268767	0.1233568
LITHIUM	670.784	Radial	7.816019	0.01429439	0.009951399	0.01563903	0.01729276
SELENIUM	196.090	Axial	-0.4693653	-0.005572287	-0.009256286	-0.0008626056	-0.006597969
SILVER	328.068	Axial	-7.30558	0.002758098	0.001908284	0.002485036	0.003880974
ALUMINUM	308.215	Radial	1134.985	19.71432	19.72760	19.75056	19.66480
ANTIMONY	206.833	Axial	1.216853	0.006217780	0.008961562	0.001799593	0.007892184
BERYLLIUM	313.042	Radial	79.17517	0.004731697	0.004852305	0.004726004	0.004616782
CALCIUM	317.933	Radial	2096.630	10.46961	10.44176	10.46279	10.50429
CERIUM	535.353	Radial	19.26230	0.003332590	-0.04592294	-0.00004247577	0.05596319
COPPER	324.754	Axial	546.4370	0.1209639	0.1200221	0.1210231	0.1218465
IRON	271.441	Radial	1992.609	96.06522	96.42577	95.77517	95.99473
LANTHANUM	333.749	Radial	19.55181	0.04469346	0.04608993	0.04886875	0.03912171
MAGNESIUM	279.079	Radial	201.3822	2.381531	2.374060	2.391296	2.379237
MANGANESE	257.610	Axial	104847.0	4.603823	4.570230	4.617739	4.623500
MOLYBDENUM	202.030	Axial	6.182668	0.007890006	0.008129890	0.007256543	0.008283584
NICKEL	231.604	Axial	86.49602	0.08709166	0.08670339	0.08717440	0.08739718
PHOSPHORUS	177.495	Axial	572.4574	2.896478	2.901612	2.916372	2.871450
POTASSIUM	766.490	Radial	160.9118	1.889805	1.940128	1.880969	1.848320
SILICON	251.611	Axial	6779.482	6.174300	6.244564	6.109353	6.168984
SODIUM	589.592	Radial	101.9838	0.2893893	0.2842666	0.2883245	0.2955768
STRONTIUM	421.552	Radial	847.3084	0.07965665	0.07986051	0.07961912	0.07949031
SULFUR	182.034	Axial	164.9408	3.053667	3.072975	3.072712	3.015315
THALLIUM	190.856	Axial	-2.03004	-0.006048330	-0.01314341	-0.001740629	-0.003260949
TIN	189.989	Axial	0.2295931	0.001945383	0.0003582003	0.003197061	0.002280887
TITANIUM	334.941	Radial	319.2422	0.1916026	0.1905866	0.1913959	0.1928254
VANADIUM	292.402	Radial	60.93793	0.1021973	0.09887883	0.1008457	0.1068672
ZINC	206.200	Axial	1797.560	0.7233575	0.7177685	0.7193459	0.7329582

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1836458-07 DF: 1x Batch: WG2471819 Units: mg/kg
Analyzed: 03/21/25 15:31 Sequence: 224

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	7066.380	7034.218	7112.696	7052.227
YTTRIUM	360.073	Axial	66779.59	66564.69	66223.52	67550.55
YTTRIUM	360.073	Radial	5031.581	5072.502	4971.016	5051.226
INDIUM	230.606	Axial	1337.656	1333.351	1332.752	1346.864

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.734789	0.02104168	0.02256366	0.01924787	0.02131352
BARIUM	233.527	Axial	6295.892	0.9531639	0.9512086	0.9495517	0.9587314
CADMIUM	228.802	Axial	14.30360	0.001968012	0.001972029	0.001892128	0.002039878
CHROMIUM	267.716	Axial	366.7425	0.1469195	0.1465198	0.1455613	0.1486774
LEAD	220.353	Axial	34.56035	0.07611682	0.07417775	0.07984815	0.07432454
SELENIUM	196.090	Axial	-0.5753646	-0.006480541	-0.009091200	-0.006945589	-0.003404833
SILVER	328.068	Axial	-9.32247	0.002322876	0.002045298	0.003208733	0.001714596
ALUMINUM	308.215	Radial	6229.282	102.8449	102.8686	102.6881	102.9778
ANTIMONY	206.833	Axial	-0.8253057	-0.007535875	-0.01381325	-0.005967839	-0.002826538
BERYLLIUM	313.042	Radial	77.22714	0.004388167	0.004455535	0.004448165	0.004260800
BORON	249.678	Radial	8.219082	0.03797828	0.03675538	0.03673791	0.04044154
CALCIUM	317.933	Radial	6530.124	31.21233	31.33666	30.70376	31.59658
CERIUM	535.353	Radial	47.28973	0.2959723	0.2350065	0.3827346	0.2701758
COBALT	228.616	Axial	58.62917	0.06120462	0.06250610	0.06086238	0.06024537
COPPER	324.754	Axial	520.9279	0.1126606	0.1123386	0.1122664	0.1133767
IRON	271.441	Radial	2563.189	117.8370	117.8066	118.3335	117.3709
LANTHANUM	333.749	Radial	80.78989	0.1520326	0.1482178	0.1547323	0.1531477
LITHIUM	670.784	Radial	103.0562	0.1000822	0.1019888	0.09831121	0.09994656
MAGNESIUM	279.079	Radial	2463.080	27.42378	27.50130	27.43068	27.33937
MANGANESE	257.610	Axial	46189.83	1.956095	1.953306	1.940042	1.974937
MOLYBDENUM	202.030	Axial	5.191616	0.006234214	0.007479818	0.007319154	0.003903671
NICKEL	231.604	Axial	91.89498	0.09423796	0.09356762	0.09535077	0.09379550
PHOSPHORUS	177.495	Axial	1194.614	5.834970	5.847631	5.840863	5.816416
POTASSIUM	766.490	Radial	2197.578	21.98012	21.88622	22.05049	22.00366
SILICON	251.611	Axial	16726.00	14.87359	14.79378	14.95550	14.87150
SODIUM	589.592	Radial	1134.683	2.917637	2.929950	2.921916	2.901045
STRONTIUM	421.552	Radial	2618.210	0.2359986	0.2364910	0.2348850	0.2366199
SULFUR	182.034	Axial	43.76231	0.7208818	0.7189113	0.7271216	0.7166125
THALLIUM	190.856	Axial	-1.64668	-0.004288852	-0.002717403	-0.002773047	-0.007376106
TIN	189.989	Axial	6.112254	0.01589435	0.01357077	0.01538535	0.01872695
TITANIUM	334.941	Radial	10782.30	6.116729	6.130871	6.104232	6.115083
VANADIUM	292.402	Radial	151.6090	0.2389439	0.2393049	0.2410766	0.2364501
ZINC	206.200	Axial	1002.755	0.3883797	0.3894585	0.3864071	0.3892735

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV-2 Units: mg/l
Analyzed: 03/21/25 15:32 Sequence: 225 Standard ID: 25C19788

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6619.104	6654.397	6615.028	6587.887
YTTRIUM	360.073	Axial	62142.78	62414.98	62062.75	61950.62
YTTRIUM	360.073	Radial	4735.525	4731.442	4709.897	4765.237
INDIUM	230.606	Axial	1297.937	1302.207	1299.296	1292.309

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	563.4551	9.954258	9.989084	9.911595	9.962095
ANTIMONY	206.833	Axial	71.92064	0.5036126	0.5049425	0.5007088	0.5051864
ARSENIC	189.042	Axial	205.4813	1.006338	1.001255	1.007724	1.010034
BARIUM	233.527	Axial	3135.871	0.5074831	0.5020942	0.5075695	0.5127857
BERYLLIUM	313.042	Radial	3229.331	0.2028882	0.2040018	0.2030342	0.2016288
BORON	249.678	Radial	210.3683	1.013753	1.017943	1.010428	1.012887
CADMIUM	228.802	Axial	1090.508	0.4938755	0.4916023	0.4925596	0.4974644
CALCIUM	373.690	Radial	5100.112	52.05780	52.44171	52.24132	51.49036
CHROMIUM	267.716	Axial	2372.282	0.9921237	0.9868891	0.9882507	1.001231
COBALT	228.616	Axial	1003.719	0.9801235	0.9741365	0.9771867	0.9890472
COPPER	324.754	Axial	4479.468	1.020722	1.011827	1.021381	1.028958
IRON	259.940	Radial	2677.402	10.71782	10.76028	10.68515	10.70802
LEAD	220.353	Axial	216.3992	0.4912240	0.4884879	0.4902891	0.4948950
LITHIUM	670.784	Radial	1057.521	1.023178	1.029499	1.025127	1.014908
MAGNESIUM	279.079	Radial	871.9674	10.33597	10.37065	10.31744	10.31982
MANGANESE	257.610	Axial	22273.35	1.007304	0.9990105	1.007869	1.015033
MOLYBDENUM	202.030	Axial	173.4981	0.2502042	0.2485256	0.2493508	0.2527361
NICKEL	231.604	Axial	902.6141	0.9658990	0.9587762	0.9655525	0.9733683
PHOSPHORUS	177.495	Axial	190.2635	0.9869910	0.9952907	0.9864613	0.9792209
POTASSIUM	766.490	Radial	4787.851	50.59332	50.49418	50.72175	50.56404
SELENIUM	196.090	Axial	91.25508	0.9877583	0.9800282	0.9912450	0.9920016
SILICON	251.611	Axial	2160.226	2.055769	2.049781	2.049501	2.068026
SILVER	328.068	Axial	2001.141	0.5165961	0.5125810	0.5184496	0.5187577
SODIUM	818.326	Radial	436.4376	48.90210	49.31197	49.11983	48.27450
STRONTIUM	421.552	Radial	10600.70	1.017510	1.020431	1.021620	1.010478
SULFUR	182.034	Axial	248.7382	4.785761	4.789372	4.814156	4.753756
THALLIUM	190.856	Axial	196.5979	1.016536	1.014147	1.024894	1.010565
TIN	189.989	Axial	201.3196	0.4933461	0.4897867	0.4941039	0.4961475
TITANIUM	334.941	Radial	1673.867	1.010417	1.012197	1.014057	1.004996
VANADIUM	292.402	Radial	607.5419	1.008955	1.011796	1.012491	1.002577
ZINC	206.200	Axial	2449.752	1.015415	1.008444	1.013270	1.024532
CERIUM	535.353	Radial	11.47348	-0.08300765	-0.05462264	-0.1263473	-0.06805302
LANTHANUM	333.749	Radial	-6.77376	-0.004635387	-0.004636056	-0.003429094	-0.005841011

Sample ID: CCB-2 Units: mg/l
Analyzed: 03/21/25 15:34 Sequence: 226

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6506.719	6564.412	6439.408	6516.335
YTTRIUM	360.073	Axial	63285.82	63183.53	63290.47	63383.46
YTTRIUM	360.073	Radial	4783.577	4765.374	4820.875	4764.482
INDIUM	230.606	Axial	1374.949	1374.131	1377.686	1373.030

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.59973	-0.01948890	0.0006501651	-0.05619741	-0.002919460
ANTIMONY	206.833	Axial	2.158218	0.01334603	0.01754855	0.01570027	0.006789262
ARSENIC	189.042	Axial	1.173128	0.0004725095	-0.001513184	0.001927196	0.001003516
BARIUM	233.527	Axial	-7.15937	0.0001801797	-0.0001015150	-0.0001846729	0.0008267268
BERYLLIUM	313.042	Radial	3.160039	0.00001394484	0.000006585764	0.00007363389	-0.00003838512
BORON	249.678	Radial	0.1472585	0.001453506	0.003737288	-0.003244631	0.003867862
CADMIUM	228.802	Axial	8.755149	-0.00008529326	0.0002897356	-0.0002887586	-0.0002568568
CALCIUM	317.933	Radial	13.26223	0.005296173	-0.001748899	-0.0001398245	0.01777724
CERIUM	535.353	Radial	10.97510	-0.08981127	-0.08805983	-0.1065359	-0.07483810
CHROMIUM	267.716	Axial	-7.96106	0.0004216561	0.001729850	-0.00006184614	-0.0004030352
COBALT	228.616	Axial	-6.09259	0.0004104694	0.001593814	-0.0007227226	0.0003603169
COPPER	324.754	Axial	-5.15604	0.001323544	0.0008432083	0.001554655	0.001572770
IRON	259.940	Radial	5.426997	0.01624627	0.01633281	0.01460553	0.01780048
LANTHANUM	333.749	Radial	-0.2948590	0.007615994	0.01019022	0.009044854	0.003612909
LEAD	220.353	Axial	-0.2616215	-0.0005742549	-0.003242416	0.0009997242	0.0005199277
LITHIUM	670.784	Radial	-7.88122	-0.0006233807	-0.0008312744	0.002159212	-0.003198080
MAGNESIUM	279.079	Radial	-2.58624	0.002665062	-0.006565244	0.007581702	0.006978729
MANGANESE	257.610	Axial	-11.4058	0.0001051046	0.0001147134	0.00007103619	0.0001295643
MOLYBDENUM	202.030	Axial	2.524985	0.002916403	0.003221190	0.002961588	0.002566431
NICKEL	231.604	Axial	2.556978	0.001277708	0.001398042	0.0007861218	0.001648961
PHOSPHORUS	177.495	Axial	1.284241	0.0006722270	-0.0005052785	0.0003258900	0.002196070
POTASSIUM	766.490	Radial	-17.6178	0.03531887	0.07241314	0.01325061	0.02029287
SELENIUM	196.090	Axial	0.1979077	0.001513083	0.01071776	0.0008918985	-0.007070411
SILICON	251.611	Axial	39.10314	0.02679570	0.02545922	0.02799908	0.02692880
SILVER	328.068	Axial	-16.8380	0.0003063083	-0.0007674617	0.0001824183	0.001503968
SODIUM	589.592	Radial	-40.1730	-0.09219690	-0.09766797	-0.08490485	-0.09401788
STRONTIUM	421.552	Radial	4.581062	-0.0002302128	0.0003281895	-0.0004918216	-0.0005270062
SULFUR	182.034	Axial	3.528149	-0.01096877	-0.01123394	-0.01379625	-0.007876140
THALLIUM	190.856	Axial	-0.5854590	0.001082792	-0.00006624335	0.002084555	0.001230064
TIN	189.989	Axial	-1.02517	-0.0009517996	-0.002077543	-0.001424523	0.0006466674
TITANIUM	334.941	Radial	-1.43143	0.0008747864	0.001270095	0.001181742	0.0001725222
VANADIUM	292.402	Radial	0.08223164	0.002720145	0.002918423	0.0009775091	0.004264504
ZINC	206.200	Axial	4.740166	0.0004663921	0.0006572705	0.0008575622	-0.0001156565

Sample ID: CCVLL Units: mg/l
Analyzed: 03/21/25 15:39 Sequence: 227 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	3728.745	1353.364	2464.286	7368.586
YTTRIUM	360.073	Axial	39456.70	13890.09	24491.41	79988.60
YTTRIUM	360.073	Radial	13335.91	13886.37	13954.14	12167.22
INDIUM	230.606	Axial	976.9508	360.8201	610.7911	1959.241

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-5.34389	0.04538487	0.03110345	0.03431951	0.07073163
ANTIMONY	206.833	Axial	-0.1356634	-0.004268520	-0.004024663	-0.005673553	-0.003107343
ARSENIC	189.042	Axial	0.7218146	0.006642061	0.02749843	-0.005829955	-0.001742293
BARIUM	233.527	Axial	-5.10856	-0.0007569466	-0.001966635	-0.0007551571	0.0004509521
BERYLLIUM	313.042	Radial	1.350395	-0.0001458194	-0.0002264750	-0.0002151543	0.000004170997
BORON	249.678	Radial	2.319895	0.005232812	-0.002027902	0.0002912496	0.01743509
CADMIUM	228.802	Axial	8.101982	0.006274181	0.01575312	0.003445494	-0.0003760743
CALCIUM	317.933	Radial	56.01071	0.04219186	0.002970825	0.02362221	0.09998255
CHROMIUM	267.716	Axial	-7.38531	-0.003689649	-0.007543997	-0.003589292	0.00006434230
COBALT	228.616	Axial	-6.47246	-0.007394036	-0.01595362	-0.008201769	0.001973280
COPPER	324.754	Axial	-14.6993	-0.006628074	-0.01587108	-0.003810682	-0.0002024620
IRON	259.940	Radial	7.046410	0.005162552	-0.001691831	0.002386244	0.01479324
LEAD	220.353	Axial	0.3512731	0.004000752	0.008742351	0.004800551	-0.001540647
LITHIUM	670.784	Radial	-4.24881	0.005481448	0.006362072	0.003602583	0.006479689
MAGNESIUM	279.079	Radial	7.003280	0.06463453	0.02942321	0.04667828	0.1178021
MANGANESE	257.610	Axial	-13.5628	-0.001073734	-0.002268757	-0.001011373	0.00005892793
MOLYBDENUM	202.030	Axial	1.481370	0.004960673	0.01184882	0.0009721964	0.002061000
NICKEL	231.604	Axial	1.710447	0.002007192	0.004591627	0.0008594858	0.0005704623
PHOSPHORUS	177.495	Axial	0.9996880	0.006383737	0.01480177	0.003515516	0.0008339257
POTASSIUM	766.490	Radial	-14.4626	0.1682519	0.1289626	0.1265614	0.2492318
SELENIUM	196.090	Axial	0.2955704	0.006247423	-0.004963797	0.02275115	0.0009549185
SILICON	251.611	Axial	12.86845	0.01277936	0.01212682	0.02063533	0.005575936
SILVER	328.068	Axial	-17.9070	-0.007427886	-0.01552733	-0.007911579	0.001155252
SODIUM	589.592	Radial	-3.89778	0.01458921	-0.01728169	-0.009768781	0.07081809
STRONTIUM	421.552	Radial	19.31017	0.00001596756	-0.0003601006	-0.0001632234	0.0005712267
SULFUR	182.034	Axial	6.565147	0.2720116	0.4911758	0.2886865	0.03617260
THALLIUM	190.856	Axial	-0.6517707	-0.001426825	-0.01187402	0.009007422	-0.001413878
TIN	189.989	Axial	-0.3608662	-0.0002237568	-0.003969137	0.003206669	0.00009119772
TITANIUM	334.941	Radial	5.331553	0.002989095	0.001321188	0.001944628	0.005701468
VANADIUM	292.402	Radial	-0.7834071	0.002187845	0.0004487230	0.002289856	0.003824957
ZINC	206.200	Axial	1.074389	-0.0005586064	0.0005657787	-0.001513305	-0.0007282935
CERIUM	535.353	Radial	8.957381	-0.1767847	-0.1879362	-0.1906299	-0.1517880
LANTHANUM	333.749	Radial	-0.3156891	0.007970382	0.008038822	0.007714512	0.008157813

Sample ID: CCVLL Units: mg/l
Analyzed: 03/21/25 15:43 Sequence: 228 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6501.370	6421.091	6468.281	6614.739
YTTRIUM	360.073	Axial	62842.21	61911.67	62400.01	64214.95
YTTRIUM	360.073	Radial	4762.200	4785.570	4807.691	4693.339
INDIUM	230.606	Axial	1344.844	1325.776	1335.416	1373.339

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.239714	0.2210680	0.2153973	0.2377298	0.2100769
ANTIMONY	206.833	Axial	2.100037	0.01285389	0.001803222	0.01555860	0.02119984
ARSENIC	189.042	Axial	3.134650	0.01033627	0.01601855	0.007700219	0.007290026
BARIUM	233.527	Axial	25.10063	0.005483050	0.005821738	0.005335711	0.005291701
BERYLLIUM	313.042	Radial	34.65639	0.001985551	0.001958082	0.001880108	0.002118463
BORON	249.678	Radial	41.72240	0.2005224	0.2010951	0.1998588	0.2006133
CADMIUM	228.802	Axial	13.12384	0.001955071	0.001973499	0.002470387	0.001421327
CALCIUM	317.933	Radial	223.7555	1.070856	1.058676	1.071752	1.082139
CHROMIUM	267.716	Axial	14.22336	0.009837807	0.01140138	0.008347619	0.009764427
COBALT	228.616	Axial	2.033600	0.007897482	0.007789168	0.008193688	0.007709589
COPPER	324.754	Axial	44.02277	0.01237227	0.01216606	0.01284850	0.01210224
IRON	259.940	Radial	28.87448	0.1097064	0.1061257	0.1141278	0.1088658
LEAD	220.353	Axial	2.362891	0.005150626	0.003366898	0.005951427	0.006133553
LITHIUM	670.784	Radial	12.71756	0.01899758	0.01679054	0.02586235	0.01433986
MAGNESIUM	279.079	Radial	87.88157	1.065564	1.042340	1.077958	1.076393
MANGANESE	257.610	Axial	202.9202	0.009966827	0.009885224	0.01008506	0.009930200
MOLYBDENUM	202.030	Axial	4.467404	0.005777753	0.005943838	0.005128508	0.006260914
NICKEL	231.604	Axial	10.12776	0.009172772	0.009407435	0.009754068	0.008356812
PHOSPHORUS	177.495	Axial	20.38180	0.1022028	0.1045519	0.1034728	0.09858377
POTASSIUM	766.490	Radial	78.02686	1.034917	1.071871	1.025370	1.007509
SELENIUM	196.090	Axial	-0.07350830	-0.001430389	0.003952382	-0.005545295	-0.002698253
SILICON	251.611	Axial	221.7295	0.1997839	0.2033640	0.1993136	0.1966740
SILVER	328.068	Axial	7.338866	0.006398924	0.005883596	0.007447718	0.005865459
SODIUM	589.592	Radial	356.2619	0.9785369	0.9934971	0.9620700	0.9800437
STRONTIUM	421.552	Radial	111.7303	0.01000388	0.009914616	0.01013342	0.009963620
SULFUR	182.034	Axial	52.83314	0.9712976	0.9810224	0.9570071	0.9758634
THALLIUM	190.856	Axial	1.690226	0.01232728	0.01163050	0.01265671	0.01269464
TIN	189.989	Axial	20.48142	0.04973523	0.05253569	0.04858258	0.04808742
TITANIUM	334.941	Radial	80.75064	0.05011256	0.05011367	0.05072909	0.04949492
VANADIUM	292.402	Radial	10.07101	0.01916895	0.01398570	0.02310893	0.02041222
ZINC	206.200	Axial	136.9361	0.05634900	0.05676264	0.05739562	0.05488874
CERIUM	535.353	Radial	9.281098	-0.1089273	-0.06733120	-0.1029316	-0.1565192
LANTHANUM	333.749	Radial	-2.22275	0.004013732	0.002093296	0.002933966	0.007013935

Sample ID: CCVLL Units: mg/l
Analyzed: 03/21/25 15:52 Sequence: 229 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6619.985	6630.118	6560.159	6669.679
YTTRIUM	360.073	Axial	64053.04	64062.56	63083.49	65013.08
YTTRIUM	360.073	Radial	4790.708	4827.417	4774.050	4770.657
INDIUM	230.606	Axial	1373.504	1374.408	1354.821	1391.284

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	6.882639	0.1967607	0.2055059	0.1998122	0.1849639
ANTIMONY	206.833	Axial	1.313349	0.007136620	0.006228387	0.006281876	0.008899598
ARSENIC	189.042	Axial	3.628505	0.01241518	0.01318474	0.005935656	0.01812514
BARIUM	233.527	Axial	25.21634	0.005425338	0.005443694	0.005377728	0.005454592
BERYLLIUM	313.042	Radial	33.59588	0.001905635	0.001926399	0.001894708	0.001895798
BORON	249.678	Radial	42.98051	0.2053369	0.2011317	0.2066345	0.2082443
CADMIUM	228.802	Axial	12.49715	0.001559242	0.0009263674	0.002462048	0.001289312
CALCIUM	317.933	Radial	224.7843	1.069250	1.061812	1.072982	1.072955
CHROMIUM	267.716	Axial	17.39132	0.01104435	0.01071710	0.01104710	0.01136885
COBALT	228.616	Axial	3.096448	0.008823406	0.008070046	0.008316797	0.01008338
COPPER	324.754	Axial	47.24768	0.01288792	0.01243278	0.01247334	0.01375764
IRON	259.940	Radial	29.43394	0.1112398	0.1135822	0.1118605	0.1082768
LEAD	220.353	Axial	2.452148	0.005269866	0.005020358	0.007904489	0.002884751
LITHIUM	670.784	Radial	13.29978	0.01950312	0.02364773	0.01752021	0.01734142
MAGNESIUM	279.079	Radial	88.61903	1.067900	1.089083	1.059783	1.054835
MANGANESE	257.610	Axial	203.2159	0.009812527	0.009937181	0.009716542	0.009783859
MOLYBDENUM	202.030	Axial	4.349010	0.005492547	0.006099519	0.005404138	0.004973985
NICKEL	231.604	Axial	10.55025	0.009372704	0.007790113	0.009980457	0.01034754
PHOSPHORUS	177.495	Axial	20.52815	0.1009768	0.1013806	0.09790687	0.1036430
POTASSIUM	766.490	Radial	73.68823	0.9850865	0.9911582	0.9359502	1.028151
SELENIUM	196.090	Axial	0.7670294	0.007672601	0.01439732	0.006766504	0.001853979
SILICON	251.611	Axial	224.0106	0.1979029	0.2003998	0.1972231	0.1960859
SILVER	328.068	Axial	7.631351	0.006428095	0.008300513	0.005054215	0.005929556
SODIUM	589.592	Radial	359.4742	0.9813940	0.9833824	0.9786506	0.9821491
STRONTIUM	421.552	Radial	111.0100	0.009872640	0.009816131	0.01007808	0.009723707
SULFUR	182.034	Axial	53.77219	0.9708338	0.9711266	0.9728893	0.9684854
THALLIUM	190.856	Axial	0.6516377	0.007109566	0.006768853	0.008127741	0.006432104
TIN	189.989	Axial	20.17216	0.04800708	0.04866538	0.04951134	0.04584452
TITANIUM	334.941	Radial	83.14711	0.05125513	0.05170496	0.05179677	0.05026364
VANADIUM	292.402	Radial	11.19230	0.02090484	0.02068682	0.02217943	0.01984826
ZINC	206.200	Axial	139.9546	0.05655446	0.05664590	0.05679570	0.05622178
CERIUM	535.353	Radial	9.795943	-0.1034767	-0.08623175	-0.1148183	-0.1093800
LANTHANUM	333.749	Radial	-0.8667922	0.006555177	0.006126065	0.005017412	0.008522055

Sample ID: ICSA Units: mg/l
Analyzed: 03/21/25 15:58 Sequence: 230 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6263.585	6338.556	6230.390	6221.807
YTTRIUM	360.073	Axial	58070.77	58834.76	57900.88	57476.67
YTTRIUM	360.073	Radial	4626.123	4689.033	4592.504	4596.832
INDIUM	230.606	Axial	1149.232	1151.966	1149.952	1145.777

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28462.97	510.7923	512.5038	510.0819	509.7912
ANTIMONY	206.833	Axial	1.039059	0.005589612	0.01250559	0.0008498014	0.003413444
ARSENIC	189.042	Axial	3.126807	0.01085256	0.01108085	0.01392018	0.007556644
BARIUM	233.527	Axial	5.064042	0.002219882	0.002228717	0.002465814	0.001965114
BERYLLIUM	313.042	Radial	13.11778	0.0006624589	0.0005711303	0.0006775514	0.0007386951
BORON	249.678	Radial	-7.42404	-0.03585051	-0.03771394	-0.03701354	-0.03282406
CADMIUM	228.802	Axial	5.112589	-0.001678091	-0.002602814	-0.001161290	-0.001270168
CALCIUM	373.690	Radial	49449.92	516.3820	517.1544	516.1507	515.8408
CERIUM	535.353	Radial	13.28826	-0.05867328	-0.03625909	-0.06374383	-0.07601693
CHROMIUM	267.716	Axial	-16.5022	-0.003467799	-0.002892243	-0.003891301	-0.003619852
COBALT	228.616	Axial	-5.71927	-0.0002812261	0.002042771	-0.0007227482	-0.002163700
COPPER	324.754	Axial	44.15034	0.01321457	0.01314940	0.01331130	0.01318301
IRON	271.441	Radial	4070.312	203.5232	203.4157	203.5324	203.6214
LANTHANUM	333.749	Radial	-2.46675	0.003394770	0.003865216	0.005637251	0.0006818437
LEAD	220.353	Axial	1.029349	0.002625142	0.003756167	0.001994467	0.002124792
LITHIUM	670.784	Radial	-5.89672	0.001072101	0.003076957	0.003913093	-0.003773747
MAGNESIUM	279.079	Radial	43618.26	527.6024	528.3163	526.8279	527.6630
MANGANESE	257.610	Axial	-168.301	-0.007410586	-0.007062609	-0.007538031	-0.007631117
MOLYBDENUM	202.030	Axial	2.407692	0.002875937	0.004068170	-0.0002849330	0.004844574
NICKEL	231.604	Axial	2.197476	0.001347976	0.002280565	0.001730773	0.00003258926
PHOSPHORUS	177.495	Axial	1.582071	0.002587286	0.001085997	0.003339925	0.003335936
POTASSIUM	766.490	Radial	-21.7256	-0.01520476	-0.02419299	-0.05482934	0.03340805
SELENIUM	196.090	Axial	-1.21960	-0.01461459	-0.01263661	-0.01301942	-0.01818772
SILICON	251.611	Axial	13.29086	0.003685884	0.003077558	0.003464148	0.004515947
SILVER	328.068	Axial	2.249950	0.005154903	0.005086450	0.005105405	0.005272855
SODIUM	589.592	Radial	-30.2098	-0.06810630	-0.07239234	-0.06890724	-0.06301933
STRONTIUM	421.552	Radial	68.04095	0.006022719	0.006047166	0.006213968	0.005807024
SULFUR	182.034	Axial	3.509232	-0.008632139	-0.006827698	-0.01412550	-0.004943220
THALLIUM	190.856	Axial	-1.74094	-0.006196374	-0.005745669	-0.007482211	-0.005361241
TIN	189.989	Axial	-0.5734053	-0.0001717014	-0.001087828	0.002318169	-0.001745445
TITANIUM	334.941	Radial	-9.74248	-0.004286111	-0.003328753	-0.004424235	-0.005105345
VANADIUM	292.402	Radial	1.931749	0.005867904	0.003866736	0.007944108	0.005792867
ZINC	206.200	Axial	29.29518	0.01131270	0.01161865	0.01153466	0.01078478

Sample ID: ICSAB Units: mg/l
Analyzed: 03/21/25 16:00 Sequence: 231 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	6256.513	6200.909	6350.557	6218.074
YTTRIUM	360.073	Axial	58253.42	58406.59	58469.54	57884.14
YTTRIUM	360.073	Radial	4643.258	4649.304	4636.218	4644.251
INDIUM	230.606	Axial	1147.416	1139.175	1154.450	1148.622

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	28522.96	509.9926	509.1749	511.2864	509.5164
ANTIMONY	206.833	Axial	65.57378	0.4857457	0.4967233	0.4816719	0.4788420
ARSENIC	189.042	Axial	98.28898	0.5065857	0.5073921	0.5062049	0.5061601
BARIUM	233.527	Axial	2930.050	0.5016722	0.5042393	0.4992945	0.5014827
BERYLLIUM	313.042	Radial	7891.885	0.5059382	0.5068191	0.5064899	0.5045057
BORON	249.678	Radial	199.0439	0.9782687	0.9828843	0.9793907	0.9725310
CADMIUM	228.802	Axial	2028.873	0.9761794	0.9816988	0.9655857	0.9812536
CALCIUM	373.690	Radial	49322.10	513.1524	513.2001	513.9677	512.2893
CERIUM	535.353	Radial	13.19893	-0.06015679	-0.04350693	-0.07699878	-0.05996465
CHROMIUM	267.716	Axial	1076.265	0.4781931	0.4790495	0.4738008	0.4817291
COBALT	228.616	Axial	458.0580	0.5088640	0.5127305	0.5094744	0.5043872
COPPER	324.754	Axial	2131.598	0.5193552	0.5185772	0.5207108	0.5187774
IRON	271.441	Radial	4062.766	202.3950	202.9702	201.9803	202.2344
LANTHANUM	333.749	Radial	-5.64659	-0.002720977	-0.003706744	-0.004931472	0.0004752857
LEAD	220.353	Axial	381.0528	0.9784631	0.9832687	0.9800589	0.9720617
LITHIUM	670.784	Radial	-3.44470	0.003510230	0.001484433	0.004118003	0.004928252
MAGNESIUM	279.079	Radial	43523.66	524.5210	525.6950	526.1479	521.7201
MANGANESE	257.610	Axial	10434.42	0.4995550	0.5024941	0.4985798	0.4975910
MOLYBDENUM	202.030	Axial	312.0399	0.4768171	0.4782659	0.4724227	0.4797628
NICKEL	231.604	Axial	829.1915	1.003753	1.002324	1.007041	1.001895
PHOSPHORUS	177.495	Axial	1.860509	0.004151974	0.008659107	0.001032533	0.002764283
POTASSIUM	766.490	Radial	-26.8323	-0.06919999	-0.06333285	-0.09110906	-0.05315807
SELENIUM	196.090	Axial	42.98445	0.4918897	0.4930427	0.4937018	0.4889245
SILICON	251.611	Axial	919.8088	0.9283568	0.9218242	0.9327935	0.9304528
SILVER	328.068	Axial	3439.980	0.9435174	0.9327297	0.9551681	0.9426543
SODIUM	589.592	Radial	-19.0619	-0.03694450	-0.03717246	-0.05930546	-0.01435560
STRONTIUM	421.552	Radial	69.69590	0.006160362	0.005965836	0.006240105	0.006275146
SULFUR	182.034	Axial	3.633156	-0.005977017	-0.01194375	-0.006623958	0.0006366521
THALLIUM	190.856	Axial	78.94126	0.4638389	0.4584681	0.4741664	0.4588821
TIN	189.989	Axial	175.6990	0.4870718	0.4904970	0.4820672	0.4886512
TITANIUM	334.941	Radial	797.3540	0.4917640	0.4908768	0.4958436	0.4885716
VANADIUM	292.402	Radial	290.2849	0.4929720	0.4905097	0.4906095	0.4977967
ZINC	206.200	Axial	2317.888	1.016482	1.026178	1.008042	1.015225

3050B ICP SS Metals Prep Benchsheet

Workgroup: WG2471819

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1836458	WG2470597	BJM688	PREPREPBAL4	18-MAR-25
L1836625	WG2470822	BJM688	PREPREPBAL2	18-MAR-25
L1836685	WG2470822	BJM688	PREPREPBAL2	18-MAR-25
L1836782	WG2470816	BJM688	PREPREPBAL4	18-MAR-25

Prep Start Date/Time: 03/19/25 11:08 **Analyst:** AXP4121 **Balance ID:** METBAL8 **Vessel ESC Lot ID:** LV24080204-D-5013-LC **Pipette ID:** VU22968
Hotblock ID: MPF **Digestion Chips Lot #:** 25B02692 **Thermometer ID#:** 1042830 **Thermometer Location:** A3 **Prep Start Analyst:** MDE4284
Dig. Start Date/Time: 03/19/25 18:07:44 **Prep End Date/Time:** 03/19/25 23:41 **Prep End Analyst:** MDE4284 **Dig. End Date/Time:** 03/19/25 22:37:24
Pipette Tip Lot#: 24440172 **Method:** 3050B **SOP:** ENV-SOP-MTJL-0217 **Sieve ID:** N/A **Sieve Size:** N/A

1:1 Nitric Acid: 25C12740 Amt. Used: 5 mL Exp. Date:08/06/25 **Nitric Acid:** 25C18753 Amt. Used: 2.50 mL Exp. Date:09/18/25
Hydrogen Peroxide: 25C10403 Amt. Used: 1.50 mL Exp. Date:09/10/25 **Hydrochloric Acid:** 25C12739 Amt. Used: 2.50 mL Exp. Date:09/12/25
High Spike: 25C05705 Amt. Used: 0.50 mL Exp. Date:09/05/25 **High Spike 2:** 25C05706 Amt. Used: 0.50 mL Exp. Date:09/05/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Sample Description	Box ID	Spike Factor	Review Analyst	Review Date
BLANK	0.50	50	Pellets		1	CLW4046	03/19/25 23:41:17
LCS	0.50	50	Pellets		1	CLW4046	03/19/25 23:41:17
MS(L1836782-08)	0.50	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17
MSD(L1836782-08)	0.53	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17
1. L1836458-02	0.55	50	Soil	Tue 1 : 318 PP4	1	CLW4046	03/19/25 23:41:17
2. L1836458-03	0.55	50	Soil	Tue 1 : 318 PP4	1	CLW4046	03/19/25 23:41:17
3. L1836458-06	0.52	50	Soil	Tue 1 : 318 PP4	1	CLW4046	03/19/25 23:41:17
4. L1836458-07	0.55	50	Soil	Tue 1 : 318 PP4	1	CLW4046	03/19/25 23:41:17
5. L1836625-02	0.48	50	Soil	TUE 2 - PP2 3/18	1	CLW4046	03/19/25 23:41:17
6. L1836685-01	0.53	50	Soil	TUE 2 - PP2 3/18	1	CLW4046	03/19/25 23:41:17
7. L1836685-03	0.47	50	Soil	TUE 2 - PP2 3/18	1	CLW4046	03/19/25 23:41:17
8. L1836782-01	0.53	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17
9. L1836782-02	0.50	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17
10. L1836782-03	0.54	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17
11. L1836782-04	0.50	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17
12. L1836782-05	0.51	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17
13. L1836782-06	0.55	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17
14. L1836782-08	0.52	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17
15. L1836782-09	0.54	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17
16. L1836782-10	0.52	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17
17. L1836782-11	0.50	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17
18. L1836782-12	0.54	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17
19. L1836782-13	0.55	50	Soil	Tue 3 : 318 PP4	1	CLW4046	03/19/25 23:41:17

Comments:
peer review by CLW4046 on 3/19/25

Reviewed By:CLW4046 on 03/19/25 23:41:17

#	Type	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Hotblock	0	03/19/25 18:07:46	93	93	03/19/25 22:37:52	93	93	BLANK, LCS, MS(L1836782-08), MSD(L1836782-08), L1836458-02, L1836458-03, L1836458-06, L1836458-07, L1836625-02, L1836685-01, L1836685-03, L1836782-01, L1836782-02, L1836782-03, L1836782-04, L1836782-05, L1836782-06, L1836782-08, L1836782-09, L1836782-10, L1836782-11, L1836782-12, L1836782-13

3051 MW ICP SS Metals Prep Benchsheet

Workgroup: WG2473428

SDG	PrePrep Batch	PrePrep Analyst	PrePrep Balance	PrePrep Start Time
L1837212	WG2472966	CLC4087	PREPREPBAL4	20-MAR-25
L1837609	WG2472045	BJM688	PREPREPBAL1	19-MAR-25
L1838104	WG2473043	CLC4087	PREPREPBAL3	20-MAR-25
L1838357	WG2473334	KMT967	PREPREPBAL2	20-MAR-25
L1838357	WG2473371	KMT967	PREPREPBAL2	20-MAR-25

Prep Start Date/Time: 03/21/25 07:14-07:15 **Prep End Date/Time:** 03/21/25 09:12 **Balance ID:** METBAL7 **Analyst:** AXP4121 **Carousel ID:** 6
Microwave ID: MJ9747 **Dig. Start Date/Time:** 03/21/25 07:30:16 **Pipette ID:** VU23216 **SOP:** ENV-SOP-MTJL-0217 **Method:** 3051
Digestion Chips Lot #: 25B02692 **Pipette Tip Lot#:** 24440174

Nitric Acid: 25C17478 Amt. Used: 4.50 mL Exp. Date:09/17/25 **Hydrochloric Acid:** 25C11505 Amt. Used: 1.50 mL Exp. Date:09/11/25
High Spike: 25C05705 Amt. Used: 0.50 mL Exp. Date:09/05/25 **High Spike 2:** 25C05706 Amt. Used: 0.50 mL Exp. Date:09/05/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Initial Vessel Mass (g)	Final Vessel Mass (g)	Sample Description	Box ID	Review Analyst	Review Date
BLANK	0.51	50	152.37	152.35	Pellets		AXP4121	03/21/25 09:13:17
LCS	0.50	50	157.02	157.00	Pellets		AXP4121	03/21/25 09:13:17
MS(L1837212-01)	0.45	50	156.18	156.16	Soil		AXP4121	03/21/25 09:13:17
MSD(L1837212-01)	0.55	50	154.27	154.26	Soil		AXP4121	03/21/25 09:13:17
1. L1837212-01	0.53	50	157.45	157.43	Soil	320 PP4	AXP4121	03/21/25 09:13:17
2. L1837212-02	0.52	50	155.97	155.95	Soil	320 PP4	AXP4121	03/21/25 09:13:17
3. L1837212-03	0.55	50	151.98	151.96	Soil	320 PP4	AXP4121	03/21/25 09:13:17
4. L1837212-04	0.54	50	153.56	153.54	Soil	320 PP4	AXP4121	03/21/25 09:13:17
5. L1837212-05	0.50	50	154.14	154.13	Soil	320 PP4	AXP4121	03/21/25 09:13:17
6. L1837212-06	0.53	50	157.02	157.01	Soil	320 PP4	AXP4121	03/21/25 09:13:17
7. L1837212-07	0.55	50	147.76	147.74	Soil	320 PP4	AXP4121	03/21/25 09:13:17
8. L1837212-08	0.55	50	156.54	156.52	Soil	320 PP4	AXP4121	03/21/25 09:13:17
9. L1837609-03	0.52	50	153.03	153.01	Soil	Wed-3/PP1 0319	AXP4121	03/21/25 09:13:17
10. L1838104-01	0.53	50	155.28	155.26	Soil	pp3 3-20	AXP4121	03/21/25 09:13:17
11. L1838357-01	0.50	50	157.20	157.18	Soil		AXP4121	03/21/25 09:13:17
12. L1838357-02	0.49	50	155.77	155.75	Soil		AXP4121	03/21/25 09:13:17

Comments:
REVIEWED BY MKH4302 3/21

Reviewed By:AXP4121 on 03/21/25 09:13:17

3051 MW ICP SS Metals Prep Benchsheet

Workgroup: WG2473544

Prep Start Date/Time: 03/21/25 09:55-09:56 **Prep End Date/Time:** 03/21/25 13:07 **Balance ID:** DECBAL03 **Analyst:** DRD4318 **Carousel ID:** 10
Microwave ID: MY2714 **Dig. Start Date/Time:** 03/21/25 12:03:26 **Pipette ID:** F13412531 **SOP:** ENV-SOP-MTJL-0217 **Method:** 3051
Digestion Chips Lot #: 24K21124 **Pipette Tip Lot#:** 328C6-328C

Nitric Acid: 25C21221 Amt. Used: 4.50 mL Exp. Date:09/21/25 **Hydrochloric Acid:** 25C11505 Amt. Used: 1.50 mL Exp. Date:09/11/25
High Spike: 25B24106 Amt. Used: 0.50 mL Exp. Date:08/24/25 **High Spike 2:** 25B24107 Amt. Used: 0.50 mL Exp. Date:08/24/25

Sample Number	Initial Sample Wt (g)	Final Volume (mL)	Initial Vessel Mass (g)	Final Vessel Mass (g)	Sample Description	Review Analyst	Review Date
BLANK	0.49	50	157.47	157.47	PELLETS	DRD4318	03/21/25 13:07:17
LCS	0.48	50	152.44	152.40	PELLETS	DRD4318	03/21/25 13:07:17
MS(L1838018-01)	0.47	50	154.75	154.73	SOIL	DRD4318	03/21/25 13:07:17
MSD(L1838018-01)	0.47	50	156.32	156.30	SOIL	DRD4318	03/21/25 13:07:17
1. L1838018-01	0.49	50	156.63	156.62	SOIL	DRD4318	03/21/25 13:07:17
2. L1838018-02	0.55	50	158.41	158.36	SOIL	DRD4318	03/21/25 13:07:17
3. L1838018-03	0.45	50	151.36	151.29	SOIL	DRD4318	03/21/25 13:07:17
4. L1838018-04	0.49	50	154.75	154.75	SOIL	DRD4318	03/21/25 13:07:17
5. L1838018-05	0.52	50	156.79	156.78	SOIL	DRD4318	03/21/25 13:07:17
6. L1838018-06	0.52	50	155.10	155.07	SOIL	DRD4318	03/21/25 13:07:17
7. L1838018-07	0.50	50	156.15	156.15	SOIL	DRD4318	03/21/25 13:07:17
8. L1838018-08	0.47	50	156.98	156.98	SOIL	DRD4318	03/21/25 13:07:17

Comments:
PEER REVIEWED- AXP4121 3/21

Reviewed By:DRD4318 on 03/21/25 13:07:17

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Coef1	First Order Coefficient.
Coef2	Second Order Coefficient.
Corr.	Correlation Coefficient.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Incpt	Intercept.
Mass	Mass of parameter.
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RSD	Relative Standard Deviation.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Wavelength	Wavelength of parameter.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.

RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

GLOSSARY OF TERMS

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

S

Company Name/Address: Haley & Aldrich - Phoenix, 400 E. Van Buren St. #945, Phoenix, AZ

Billing Information: Attn: Accounts Payable, 70 Blanchard Rd Suite 204, Burlington, MA 01803

Report to: Samantha Kaney 602-760-2441

Email To: skaney@haleyaldrich.com

Project Description: ESI - Env Sampling

City/State Collected: Missouri

Please Circle: PT MT CT ET

Phone:

Client Project # 0213103-000

Lab Project #

Collected by (print): S. Kaney

Site/Facility ID #

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE
12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1838018 — G162 — 3/20/25

Acctnum:
Template:
Prelogin:
PM:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Hexavalent Chromium - SW7196A	Mercury - SW 747/8	Total Metals - SW6010B	Radium 226 & 228 - EPA 903/904	Sulfide Anions - SW-846 9034A	Remarks	Sample # (lab only)
Clinton-School-Ditch-S-So	Comp	SS	0-1	3/11/25	0810	3	X	X	X	X	X		-01
18-901-S-So	Comp	SS	0-1	3/11/25	0900	3	X	X	X	X	X		-02
K-18-S-So	Comp	SS	0-1	3/11/25	0940	3	X	X	X	X	X		-03
P-230-S-So	Comp	SS	0-1	3/11/25	1025	3	X	X	X	X	X		-04
P-350-S-So	Comp	SS	0-1	3/11/25	1055	3	X	X	X	X	X		-05
NHR-S-So	Comp	SS	0-1	3/11/25	1135	3	X	X	X	X	X		-06
Fly Ash-S-So	Grab	SS*	0-1	3/11/25	1508	3	X	X	X	X	X		-07

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Spl cfs - no rush on rad - *fly ash*

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS X FedEx __ Courier __ _____

Tracking # 4439 2938 8594

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: X Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	3/11/25	1735	FedEx	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: GAM 3.4 4.9 3 8 21
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/12/25 Time: 900
				Hold: Condition: NCF / OK

Rush relog L1835560 HALALDPAZ R3

Ro/R1

Please relog L1835560 all samples for CR6 Method 7196 (run at dilution) and
6010 Metals Ag,As,Ba,B,Cd,Co,Cr,Li,Pb.
Transfer TS $0 : :WG2469633 -01, -02 WG2469634 -05 through -08
Add QC4
Select this SDG for MS/MSD on both CR6 and Metals
Log as R2 due Friday AM

Daphne Richards

Project Manager 2, National

Pace Analytical Services

O. 615.773.9662 l pacelabs.com

[cid:f7f83e9d-1374-4e7f-93a3-c5a24902b3d1]

[cid:36a1e421-8f88-4f05-baaf-4f1d647b07a7]

Pace Analytical Services Online Billing<https://secure2.billtrust.com/pacelabs/ig/signin>

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P Please consider the environment before printing this email

Time estimate: oh **Time spent:** oh

Members

DR Daphne Richards (responsible)

ANALYTICAL REPORT

March 27, 2025

Haley & Aldrich-Phoenix, AZ

Sample Delivery Group:	L1835142
Samples Received:	03/12/2025
Project Number:	0213103.000
Description:	ESI_ENV_Sampling

Report To: Samantha Kaney
400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Entire Report Reviewed By: Daphne R Richards

Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MONTROSE-LAKE-S-SW L1835142-01 WW

Collected by: Samantha Kaney | Collected date/time: 03/11/25 12:40 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 218.6	WG2467459	1	03/13/25 02:36	03/13/25 02:36	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468095	10	03/13/25 19:43	03/13/25 19:43	DLH	Mt. Juliet, TN
Mercury by Method 245.1	WG2467783	1	03/14/25 23:14	03/17/25 16:19	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2467972	1	03/13/25 08:35	03/14/25 03:00	RLS	Mt. Juliet, TN

MONTROSE-LAKE-S-SW-FILTERED L1835142-02 WW

Collected by: Samantha Kaney | Collected date/time: 03/11/25 12:40 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 218.6	WG2467459	1	03/13/25 02:47	03/13/25 02:47	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468095	10	03/13/25 19:56	03/13/25 19:56	DLH	Mt. Juliet, TN
Mercury by Method 245.1	WG2467784	1	03/13/25 16:51	03/14/25 19:39	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2470166	1	03/18/25 06:56	03/18/25 19:50	MAP	Mt. Juliet, TN

DEEPWATER-S-SW L1835142-03 WW

Collected by: Samantha Kaney | Collected date/time: 03/11/25 15:45 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 218.6	WG2467459	1	03/13/25 02:58	03/13/25 02:58	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468095	10	03/13/25 20:36	03/13/25 20:36	DLH	Mt. Juliet, TN
Mercury by Method 245.1	WG2467783	1	03/14/25 23:14	03/17/25 16:22	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2467972	1	03/13/25 08:35	03/14/25 03:02	RLS	Mt. Juliet, TN

DEEPWATER-S-SW-FILTERED L1835142-04 WW

Collected by: Samantha Kaney | Collected date/time: 03/11/25 16:10 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 218.6	WG2467459	1	03/13/25 03:09	03/13/25 03:09	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468095	10	03/13/25 20:50	03/13/25 20:50	DLH	Mt. Juliet, TN
Mercury by Method 245.1	WG2467784	1	03/13/25 16:51	03/14/25 19:42	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2470166	1	03/18/25 06:56	03/18/25 20:01	MAP	Mt. Juliet, TN

DUP3-SW L1835142-05 WW

Collected by: Samantha Kaney | Collected date/time: 03/11/25 15:45 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 218.6	WG2467459	1	03/13/25 03:20	03/13/25 03:20	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468095	10	03/13/25 21:03	03/13/25 21:03	DLH	Mt. Juliet, TN
Mercury by Method 245.1	WG2467783	1	03/14/25 23:14	03/17/25 16:24	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2467972	1	03/13/25 08:35	03/14/25 03:05	RLS	Mt. Juliet, TN

TRUMAN-S-SW L1835142-06 WW

Collected by: Samantha Kaney | Collected date/time: 03/11/25 17:34 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 218.6	WG2467459	1	03/13/25 03:30	03/13/25 03:30	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468095	5	03/13/25 21:16	03/13/25 21:16	DLH	Mt. Juliet, TN
Mercury by Method 245.1	WG2467783	1	03/14/25 23:14	03/17/25 16:27	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2467972	1	03/13/25 08:35	03/14/25 03:08	RLS	Mt. Juliet, TN

TRUMAN-S-SW-FILTERED L1835142-07 WW

Collected by: Samantha Kaney
Collected date/time: 03/11/25 17:34
Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 218.6	WG2467459	1	03/13/25 04:03	03/13/25 04:03	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2468095	1	03/13/25 21:30	03/13/25 21:30	DLH	Mt. Juliet, TN
Mercury by Method 245.1	WG2467784	1	03/13/25 16:51	03/14/25 19:29	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2470166	1	03/18/25 06:56	03/18/25 20:04	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

Report Revision History

Level II Report - Version 1: 03/27/25 09:22

200.7 Metals (ICP)

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-S-SW

Lab Sample ID:	L1835142-01	**SDG:**	L1835142
Client Sample ID:	MONTROSE-LAKE-S-SW	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250314030005	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:35
Analytical Batch:	WG2467972	**Analysis Date/Time:**	03/14/25 03:00
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	U		4.78	10.0
Barium	7440-39-3	74.0		0.675	5.00
Boron	7440-42-8	38.9	J	28.5	200
Cadmium	7440-43-9	U		0.492	2.00
Chromium	7440-47-3	U		0.920	10.0
Cobalt	7440-48-4	1.08	J	1.02	10.0
Lead	7439-92-1	U		2.72	5.00
Lithium	7439-93-2	U		3.80	15.0
Selenium	7782-49-2	U		5.29	10.0
Silver	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE-LAKE-S-SW-FILTERED

Lab Sample ID:	L1835142-02	**SDG:**	L1835142
Client Sample ID:	MONTROSE-LAKE-S-SW-FILTERED	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250318195056	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:56
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 19:50
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	U		4.78	10.0
Barium,Dissolved	7440-39-3	43.9		0.675	5.00
Boron,Dissolved	7440-42-8	30.7	J	28.5	200
Cadmium,Dissolved	7440-43-9	U		0.492	2.00
Chromium,Dissolved	7440-47-3	U		0.920	10.0
Cobalt,Dissolved	7440-48-4	U		1.02	10.0
Lead,Dissolved	7439-92-1	U		2.72	5.00
Lithium,Dissolved	7439-93-2	5.82	J	3.80	15.0
Selenium,Dissolved	7782-49-2	U		5.29	10.0
Silver,Dissolved	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835142-03	**SDG:**	L1835142
Client Sample ID:	DEEPWATER-S-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	20250314030258	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:35
Analytical Batch:	WG2467972	**Analysis Date/Time:**	03/14/25 03:02
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	U		4.78	10.0
Barium	7440-39-3	84.4		0.675	5.00
Boron	7440-42-8	48.2	J	28.5	200
Cadmium	7440-43-9	U		0.492	2.00
Chromium	7440-47-3	0.947	J	0.920	10.0
Cobalt	7440-48-4	U		1.02	10.0
Lead	7439-92-1	U		2.72	5.00
Lithium	7439-93-2	6.64	J	3.80	15.0
Selenium	7782-49-2	U		5.29	10.0
Silver	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DEEPWATER-S-SW-FILTERED

Lab Sample ID:	L1835142-04	**SDG:**	L1835142
Client Sample ID:	DEEPWATER-S-SW-FILTERED	**Collected Date/Time:**	03/11/25 16:10
Lab File ID:	20250318200140	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:56
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 20:01
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	U		4.78	10.0
Barium,Dissolved	7440-39-3	66.7		0.675	5.00
Boron,Dissolved	7440-42-8	38.6	J	28.5	200
Cadmium,Dissolved	7440-43-9	U		0.492	2.00
Chromium,Dissolved	7440-47-3	U		0.920	10.0
Cobalt,Dissolved	7440-48-4	U		1.02	10.0
Lead,Dissolved	7439-92-1	U		2.72	5.00
Lithium,Dissolved	7439-93-2	6.01	J	3.80	15.0
Selenium,Dissolved	7782-49-2	U		5.29	10.0
Silver,Dissolved	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835142-05	**SDG:**	L1835142
Client Sample ID:	DUP3-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	20250314030550	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:35
Analytical Batch:	WG2467972	**Analysis Date/Time:**	03/14/25 03:05
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	U		4.78	10.0
Barium	7440-39-3	81.7		0.675	5.00
Boron	7440-42-8	49.6	J	28.5	200
Cadmium	7440-43-9	U		0.492	2.00
Chromium	7440-47-3	U		0.920	10.0
Cobalt	7440-48-4	U		1.02	10.0
Lead	7439-92-1	U		2.72	5.00
Lithium	7439-93-2	5.85	J	3.80	15.0
Selenium	7782-49-2	U		5.29	10.0
Silver	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
TRUMAN-S-SW

Lab Sample ID:	L1835142-06	**SDG:**	L1835142
Client Sample ID:	TRUMAN-S-SW	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	20250314030843	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:35
Analytical Batch:	WG2467972	**Analysis Date/Time:**	03/14/25 03:08
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	U		4.78	10.0
Barium	7440-39-3	89.6		0.675	5.00
Boron	7440-42-8	U		28.5	200
Cadmium	7440-43-9	U		0.492	2.00
Chromium	7440-47-3	1.16	J	0.920	10.0
Cobalt	7440-48-4	U		1.02	10.0
Lead	7439-92-1	U		2.72	5.00
Lithium	7439-93-2	U		3.80	15.0
Selenium	7782-49-2	7.96	J	5.29	10.0
Silver	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
TRUMAN-S-SW-FILTERED

Lab Sample ID:	L1835142-07	**SDG:**	L1835142
Client Sample ID:	TRUMAN-S-SW-FILTERED	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	20250318200427	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:56
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 20:04
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	U		4.78	10.0
Barium,Dissolved	7440-39-3	65.8		0.675	5.00
Boron,Dissolved	7440-42-8	U		28.5	200
Cadmium,Dissolved	7440-43-9	U		0.492	2.00
Chromium,Dissolved	7440-47-3	U		0.920	10.0
Cobalt,Dissolved	7440-48-4	U		1.02	10.0
Lead,Dissolved	7439-92-1	U		2.72	5.00
Lithium,Dissolved	7439-93-2	4.45	J	3.80	15.0
Selenium,Dissolved	7782-49-2	U		5.29	10.0
Silver,Dissolved	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186367-1	**SDG:**	L1835142
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250314022537	**Received Date/Time:**	_____
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:31
Analytical Batch:	WG2467972	**Analysis Date/Time:**	03/14/25 02:25
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	U		4.78	10.0
Barium	7440-39-3	U		0.675	5.00
Boron	7440-42-8	U		28.5	200
Cadmium	7440-43-9	U		0.492	2.00
Chromium	7440-47-3	U		0.920	10.0
Cobalt	7440-48-4	U		1.02	10.0
Lead	7439-92-1	U		2.72	5.00
Lithium	7439-93-2	U		3.80	15.0
Selenium	7782-49-2	U		5.29	10.0
Silver	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187947-1	**SDG:**	L1835142
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250318194535	**Received Date/Time:**	
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:55
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 19:45
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):		**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	U		4.78	10.0
Barium,Dissolved	7440-39-3	U		0.675	5.00
Boron,Dissolved	7440-42-8	U		28.5	200
Cadmium,Dissolved	7440-43-9	U		0.492	2.00
Chromium,Dissolved	7440-47-3	U		0.920	10.0
Cobalt,Dissolved	7440-48-4	U		1.02	10.0
Lead,Dissolved	7439-92-1	U		2.72	5.00
Lithium,Dissolved	7439-93-2	U		3.80	15.0
Selenium,Dissolved	7782-49-2	U		5.29	10.0
Silver,Dissolved	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186367-2	**SDG:**	L1835142
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250314022819	**Received Date/Time:**	_____
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:31
Analytical Batch:	WG2467972	**Analysis Date/Time:**	03/14/25 02:28
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	1040		4.78	10.0
Barium	7440-39-3	1090		0.675	5.00
Boron	7440-42-8	989		28.5	200
Cadmium	7440-43-9	1030		0.492	2.00
Chromium	7440-47-3	1090		0.920	10.0
Cobalt	7440-48-4	1010		1.02	10.0
Lead	7439-92-1	1020		2.72	5.00
Lithium	7439-93-2	1060		3.80	15.0
Selenium	7782-49-2	1050		5.29	10.0
Silver	7440-22-4	207		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187947-2	**SDG:**	L1835142
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250318194809	**Received Date/Time:**	
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:55
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 19:48
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):		**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	967		4.78	10.0
Barium,Dissolved	7440-39-3	944		0.675	5.00
Boron,Dissolved	7440-42-8	922		28.5	200
Cadmium,Dissolved	7440-43-9	967		0.492	2.00
Chromium,Dissolved	7440-47-3	967		0.920	10.0
Cobalt,Dissolved	7440-48-4	945		1.02	10.0
Lead,Dissolved	7439-92-1	1000		2.72	5.00
Lithium,Dissolved	7439-93-2	968		3.80	15.0
Selenium,Dissolved	7782-49-2	992		5.29	10.0
Silver,Dissolved	7440-22-4	179		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186367-4	**SDG:**	L1835142
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 19:30
Lab File ID:	20250314023705	**Received Date/Time:**	03/12/25 12:10
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:35
Analytical Batch:	WG2467972	**Analysis Date/Time:**	03/14/25 02:37
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	1100		4.78	10.0
Barium	7440-39-3	1150		0.675	5.00
Boron	7440-42-8	1400		28.5	200
Cadmium	7440-43-9	1060		0.492	2.00
Chromium	7440-47-3	1070		0.920	10.0
Cobalt	7440-48-4	1040		1.02	10.0
Lead	7439-92-1	1050		2.72	5.00
Lithium	7439-93-2	1080		3.80	15.0
Selenium	7782-49-2	1080		5.29	10.0
Silver	7440-22-4	212		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186367-6	**SDG:**	L1835142
Client Sample ID:	MS	**Collected Date/Time:**	03/12/25 07:30
Lab File ID:	20250314024545	**Received Date/Time:**	03/12/25 12:10
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:35
Analytical Batch:	WG2467972	**Analysis Date/Time:**	03/14/25 02:45
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	1090		4.78	10.0
Barium	7440-39-3	1140		0.675	5.00
Boron	7440-42-8	1400		28.5	200
Cadmium	7440-43-9	1050		0.492	2.00
Chromium	7440-47-3	1060		0.920	10.0
Cobalt	7440-48-4	1040		1.02	10.0
Lead	7439-92-1	1040		2.72	5.00
Lithium	7439-93-2	1070		3.80	15.0
Selenium	7782-49-2	1070		5.29	10.0
Silver	7440-22-4	210		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187947-4	**SDG:**	L1835142
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250318195620	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:56
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 19:56
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	962		4.78	10.0
Barium,Dissolved	7440-39-3	960		0.675	5.00
Boron,Dissolved	7440-42-8	931		28.5	200
Cadmium,Dissolved	7440-43-9	956		0.492	2.00
Chromium,Dissolved	7440-47-3	947		0.920	10.0
Cobalt,Dissolved	7440-48-4	925		1.02	10.0
Lead,Dissolved	7439-92-1	990		2.72	5.00
Lithium,Dissolved	7439-93-2	953		3.80	15.0
Selenium,Dissolved	7782-49-2	983		5.29	10.0
Silver,Dissolved	7440-22-4	177		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186367-5	**SDG:**	L1835142
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 19:30
Lab File ID:	20250314023954	**Received Date/Time:**	03/12/25 12:10
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:35
Analytical Batch:	WG2467972	**Analysis Date/Time:**	03/14/25 02:39
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	1100		4.78	10.0
Barium	7440-39-3	1140		0.675	5.00
Boron	7440-42-8	1420		28.5	200
Cadmium	7440-43-9	1060		0.492	2.00
Chromium	7440-47-3	1060		0.920	10.0
Cobalt	7440-48-4	1040		1.02	10.0
Lead	7439-92-1	1050		2.72	5.00
Lithium	7439-93-2	1080		3.80	15.0
Selenium	7782-49-2	1080		5.29	10.0
Silver	7440-22-4	211		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186367-7	**SDG:**	L1835142
Client Sample ID:	MSD	**Collected Date/Time:**	03/12/25 07:30
Lab File ID:	20250314024834	**Received Date/Time:**	03/12/25 12:10
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:35
Analytical Batch:	WG2467972	**Analysis Date/Time:**	03/14/25 02:48
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	1100		4.78	10.0
Barium	7440-39-3	1150		0.675	5.00
Boron	7440-42-8	1400		28.5	200
Cadmium	7440-43-9	1060		0.492	2.00
Chromium	7440-47-3	1070		0.920	10.0
Cobalt	7440-48-4	1050		1.02	10.0
Lead	7439-92-1	1050		2.72	5.00
Lithium	7439-93-2	1080		3.80	15.0
Selenium	7782-49-2	1090		5.29	10.0
Silver	7440-22-4	213		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187947-5	**SDG:**	L1835142
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250318195854	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:56
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 19:58
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	958		4.78	10.0
Barium,Dissolved	7440-39-3	958		0.675	5.00
Boron,Dissolved	7440-42-8	944		28.5	200
Cadmium,Dissolved	7440-43-9	950		0.492	2.00
Chromium,Dissolved	7440-47-3	941		0.920	10.0
Cobalt,Dissolved	7440-48-4	919		1.02	10.0
Lead,Dissolved	7439-92-1	982		2.72	5.00
Lithium,Dissolved	7439-93-2	957		3.80	15.0
Selenium,Dissolved	7782-49-2	987		5.29	10.0
Silver,Dissolved	7440-22-4	176		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186367-3	**SDG:**	L1835142
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 19:30
Lab File ID:	20250314023416	**Received Date/Time:**	03/12/25 12:10
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 08:35
Analytical Batch:	WG2467972	**Analysis Date/Time:**	03/14/25 02:34
Dilution Factor:	5	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	U		23.9	50.0
Barium	7440-39-3	91.7		3.38	25.0
Boron	7440-42-8	415	J	143	1000
Cadmium	7440-43-9	U		2.46	10.0
Chromium	7440-47-3	U		4.60	50.0
Cobalt	7440-48-4	U		5.10	50.0
Lead	7439-92-1	U		13.6	25.0
Lithium	7439-93-2	U		19.0	75.0
Selenium	7782-49-2	U		26.5	50.0
Silver	7440-22-4	U		6.70	25.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187947-3	**SDG:**	L1835142
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250318195346	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:56
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 19:53
Dilution Factor:	5	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	U		23.9	50.0
Barium,Dissolved	7440-39-3	41.4		3.38	25.0
Boron,Dissolved	7440-42-8	U		143	1000
Cadmium,Dissolved	7440-43-9	U		2.46	10.0
Chromium,Dissolved	7440-47-3	U		4.60	50.0
Cobalt,Dissolved	7440-48-4	U		5.10	50.0
Lead,Dissolved	7439-92-1	U		13.6	25.0
Lithium,Dissolved	7439-93-2	U		19.0	75.0
Selenium,Dissolved	7782-49-2	U		26.5	50.0
Silver,Dissolved	7440-22-4	U		6.70	25.0

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A
Concentration Units:	mg/l		

		ICV				**ICVLL**				**CCV**		
Sample ID:		ICP130313250817-3				ICP130313250842-3				ICP130314250158		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9827878	98.30	0.673000	0.01	0.01112877	111	32.000000	1	0.9937566	99.40	0.660000
BARIUM	1	1.043796	104	0.583000	0.0050	0.005441027	109	4.480000	0.50	0.5121634	102	0.211000
BORON	1	0.9990383	99.90	0.912000	0.20	0.2016307	101	3.070000	1	0.9545698	95.50	1.170000
CADMIUM	1	0.9730315	97.30	0.481000	0.0020	0.002087075	104	7.020000	0.50	0.4928861	98.60	0.094100
CHROMIUM	1	1.048729	105	0.244000	0.01	0.01079324	108	3.180000	1	1.027679	103	0.177000
COBALT	1	0.9704889	97	0.572000	0.01	0.009553317	95.50	2.690000	1	0.9717979	97.20	0.193000
LEAD	1	0.9793258	97.90	0.839000	0.0050	0.005777003	116	46.400000	0.50	0.4838601	96.80	0.484000
LITHIUM	1	1.010306	101	0.353000	0.0150	0.01428389	95.20	5.280000	1	1.002279	100	0.102000
SELENIUM	1	0.9614637	96.10	0.428000	0.01	0.009063138	90.60	48.500000	1	0.9914551	99.10	1.440000
SILVER	1	0.9873888	98.70	0.639000	0.0050	0.005369757	107	8.890000	0.50	0.516886	103	0.182000

ICV Limits: 95 - 105 ICVLL Limits: 50 - 150 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A
Concentration Units:	mg/l		

		CCV				**CCV**		
Sample ID:		ICP130314250254				ICP130314250329		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.01243	101	0.364000	1	1.013956	101	0.580000
BARIUM	0.50	0.5236882	105	0.315000	0.50	0.5204646	104	0.133000
BORON	1	0.9764958	97.60	0.583000	1	0.9603394	96	0.592000
CADMIUM	0.50	0.5022769	100	0.354000	0.50	0.4996332	99.90	0.137000
CHROMIUM	1	1.050763	105	0.160000	1	1.044117	104	0.583000
COBALT	1	0.9865096	98.70	0.364000	1	0.9822091	98.20	0.279000
LEAD	0.50	0.4972019	99.40	1.130000	0.50	0.4948562	99	0.223000
LITHIUM	1	1.029682	103	0.371000	1	1.026502	103	0.464000
SELENIUM	1	0.9942187	99.40	0.773000	1	0.9731694	97.30	0.722000
SILVER	0.50	0.529659	106	0.080300	0.50	0.5262874	105	0.222000

ICV Limits: 95 - 105 ICVLL Limits: 50 - 150 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14
Concentration Units:	mg/l		

		ICV				**ICVLL**				**CCVLL**		
Sample ID:		ICP140318250625-3				ICP140318250652-3				ICP140318251433-3		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9905778	99.10	1.390000	0.01	0.008028562	80.30	28.800000	0.01	0.008522802	85.20	37.400000
BARIUM	1	1.027319	103	1.080000	0.0050	0.00551346	110	4.310000	0.0050	0.005355395	107	4.060000
BORON	1	0.9782618	97.80	1.660000	0.20	0.1892192	94.60	5.330000	0.20	0.2014119	101	11.800000
CADMIUM	1	0.9744235	97.40	0.999000	0.0020	0.002010356	101	2.190000	0.0020	0.002172564	109	6.380000
CHROMIUM	1	1.023149	102	0.882000	0.01	0.0103624	104	2.250000	0.01	0.01012543	101	4.220000
COBALT	1	0.9599789	96	1.090000	0.01	0.009687404	96.90	2.190000	0.01	0.00931551	93.20	2.270000
LEAD	1	0.968669	96.90	0.965000	0.0050	0.005872914	117	50.900000	0.0050	0.005999643	120	24.400000
LITHIUM	1	1.004939	100	0.114000	0.0150	0.01271051	84.70	32.500000	0.0150	0.01646071	110	6.980000
SELENIUM	1	0.9576137	95.80	1.120000	0.01	0.01108857	111	27.000000	0.01	0.01074362	107	26.400000
SILVER	1	0.9772059	97.70	0.866000	0.0050	0.005661439	113	1.400000	0.0050	0.005002745	100	5.930000

ICV Limits: 95 - 105 ICVLL Limits: 50 - 150 CCVLL Limits: 50 - 150 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14
Concentration Units:	mg/l		

		CCV				**CCV**		
Sample ID:		ICP140318251809-2				ICP140318252012		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9362553	93.60	1.090000	1	0.9469525	94.70	0.897000
BARIUM	0.50	0.4767743	95.40	0.570000	0.50	0.4776204	95.50	0.146000
BORON	1	0.9640623	96.40	1.690000	1	0.9515569	95.20	1.620000
CADMIUM	0.50	0.4923555	98.50	0.376000	0.50	0.4922195	98.40	1.930000
CHROMIUM	1	0.9608682	96.10	0.187000	1	0.9660792	96.60	0.292000
COBALT	1	0.9374877	93.70	0.836000	1	0.9498552	95	1.010000
LEAD	0.50	0.4918638	98.40	0.843000	0.50	0.4995272	99.90	0.814000
LITHIUM	1	0.95592	95.60	0.292000	1	0.9622174	96.20	0.864000
SELENIUM	1	0.9476121	94.80	0.510000	1	0.9673921	96.70	0.569000
SILVER	0.50	0.4867387	97.30	0.294000	0.50	0.4888939	97.80	0.038600

SDG:	L1835142	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250313083414-3		20250314020141		20250314022537		20250314025712	
Analyte	mg/l		mg/l		mg/l		mg/l	
ARSENIC	0.0008989357	U	0.003426882	U	U		0.003130511	U
BARIUM	-0.0002320136	U	0.0009223771	U	U		0.001009167	U
BORON	-0.008037301	U	-0.000912491	U	U		-0.002760628	U
CADMIUM	0.00009738354	U	0.0008641249	U	U		0.001264242	U
CHROMIUM	-0.00004709599	U	0.000486376	U	U		0.0003682237	U
COBALT	0.000001996109	U	0.001953012	U	U		0.001970352	U
LEAD	0.0007511455	U	0.001407639	U	U		0.001086629	U
LITHIUM	-0.001407685	U	0.0004790042	U	U		-0.00001629627	U
SELENIUM	0.003421926	U	-0.003119043	U	U		-0.005411366	U
SILVER	-0.0005324745	U	-0.0005790718	U	U		-0.0001109103	U

SDG:	L1835142	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20250314033205	
Analyte	mg/l	
ARSENIC	0.008562969	U
BARIUM	0.0007088696	U
BORON	0.003346324	U
CADMIUM	0.000638566	U
CHROMIUM	0.0001557525	U
COBALT	0.001775076	U
LEAD	0.001827903	U
LITHIUM	0.001363242	U
SELENIUM	0.003153742	U
SILVER	0.000421688	U

SDG:	L1835142	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**
File ID:	20250318064440-3		20250318181206-2		20250318201529		20250318194535	
Analyte	mg/l		mg/l		mg/l		mg/l	
ARSENIC	-0.00104195	U	-0.002874699	U	-0.002580347	U	U	
BARIUM	0.0002106235	U	0.00007081802	U	0.0001820273	U	U	
BORON	0.001792931	U	-0.006265681	U	-0.01686257	U	U	
CADMIUM	0.0001462521	U	0.0002482424	U	0.0001868018	U	U	
CHROMIUM	-0.00002986255	U	0.0000163789	U	0.000232896	U	U	
COBALT	0.0001440	U	-0.0004267851	U	-0.0001006587	U	U	
LEAD	0.0005520315	U	0.002010999	U	0.0005321112	U	U	
LITHIUM	-0.000416982	U	0.001702856	U	0.000228307	U	U	
SELENIUM	0.005243157	U	0.003561035	U	-0.003558322	U	U	
SILVER	-0.00007815256	U	-0.0001180067	U	-0.0000594399	U	U	

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INTERFERENCE CHECK SAMPLE

SDG:	L1835142	**Analytical Method:**	200.7
Instrument ID:	ICP13	**Date:**	03/13/25 08:45
Instrument Run:	031325ICP13A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	508.5792	102	500	516.604	103
ANTIMONY	0	-0.004712001		0.50	0.4984244	99.70
ARSENIC	0	-0.005792129		0.50	0.5037884	101
BARIUM	0	0.002101114		0.50	0.513467	103
BERYLLIUM	0	-0.0001429453		0.50	0.5049913	101
BORON	0	-0.02507207		1	0.9866664	98.70
CADMIUM	0	0.001105337		1	1.041803	104
CALCIUM	500	504.7244	101	500	513.14	103
CERIUM	0	-0.03537677		0	-0.07318607	
CHROMIUM	0	-0.002977348		0.50	0.4957426	99.10
COBALT	0	0.001209249		0.50	0.5005466	100
COPPER	0	-0.01384132		0.50	0.527683	106
HOT WATER SOL. BORON	0	-0.02507207		0	0.9866664	
IRON	200	199.7435	99.90	200	203.4645	102
LANTHANUM	0	-0.01093232		0	-0.01236836	
LEAD	0	-0.008900102		1	0.9696765	97
LITHIUM	0	0.0009581725		0	-0.000064753	
MAGNESIUM	500	506.8968	101	500	516.8698	103
MANGANESE	0	0.001630883		0.50	0.5077575	102
MOLYBDENUM	0	-0.0001039387		0.50	0.4986634	99.70
NICKEL	0	-0.009421016		1	0.9744007	97.40
PHOSPHORUS	0	0.008440357		0	0.009401956	
POTASSIUM	0	-0.02413408		0	0.05399752	
SELENIUM	0	-0.000002577646		0.50	0.5327401	107
SILICON	0	-0.02774185		1	0.9665964	96.70
SILVER	0	-0.001051698		1	0.9181975	91.80
SODIUM	0	0.0234708		0	0.08665133	
STRONTIUM	0	0.006198191		0	0.006301611	
SULFUR	0	-0.178825		0	-0.1847989	
THALLIUM	0	-0.01159576		0.50	0.4554221	91.10
TIN	0	-0.007612868		0.50	0.4762115	95.20
TITANIUM	0	-0.01382504		0.50	0.4887735	97.80
VANADIUM	0	-0.006042197		0.50	0.4775126	95.50
ZINC	0	0.003288463		1	0.970504	97.10

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

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INTERFERENCE CHECK SAMPLE

SDG:	L1835142	**Analytical Method:**	200.7
Instrument ID:	ICP13	**Date:**	03/14/25 01:08
Instrument Run:	031325ICP13A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	502.6759	101	500	511.2752	102
ANTIMONY	0	-0.004993772		0.50	0.4970144	99.40
ARSENIC	0	-0.0009426708		0.50	0.5119861	102
BARIUM	0	0.002368554		0.50	0.5121889	102
BERYLLIUM	0	-0.0001115341		0.50	0.4953547	99.10
BORON	0	-0.02507488		1	0.9611313	96.10
CADMIUM	0	0.001294137		1	1.039649	104
CALCIUM	500	509.2917	102	500	518.0503	104
CERIUM	0	-0.05639532		0	-0.05168461	
CHROMIUM	0	-0.003485695		0.50	0.4988567	99.80
COBALT	0	0.001466193		0.50	0.4894589	97.90
COPPER	0	-0.01419124		0.50	0.5305597	106
HOT WATER SOL. BORON	0	-0.02507488		0	0.9611313	
IRON	200	194.5824	97.30	200	198.2241	99.10
LANTHANUM	0	-0.01250158		0	-0.01109071	
LEAD	0	-0.005064674		1	0.9643535	96.40
LITHIUM	0	0.004186245		0	0.002820858	
MAGNESIUM	500	499.4492	99.90	500	510.3132	102
MANGANESE	0	0.001844179		0.50	0.4999635	100
MOLYBDENUM	0	0.002670129		0.50	0.4937309	98.70
NICKEL	0	-0.009645714		1	0.9659412	96.60
PHOSPHORUS	0	0.00333815		0	0.01823898	
POTASSIUM	0	0.02395		0	0.05644579	
SELENIUM	0	0.003641426		0.50	0.5067291	101
SILICON	0	-0.01862005		1	0.9812571	98.10
SILVER	0	-0.0003615901		1	0.9342268	93.40
SODIUM	0	0.05867292		0	0.04957443	
STRONTIUM	0	0.006154095		0	0.006263637	
SULFUR	0	-0.1790241		0	-0.1817411	
THALLIUM	0	-0.0183567		0.50	0.4653276	93.10
TIN	0	-0.004283265		0.50	0.4704069	94.10
TITANIUM	0	-0.01507298		0.50	0.4818879	96.40
VANADIUM	0	-0.006921306		0.50	0.4698878	94
ZINC	0	0.0127499		1	0.9478684	94.80

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

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INTERFERENCE CHECK SAMPLE

SDG:	L1835142	**Analytical Method:**	200.7
Instrument ID:	ICP13	**Date:**	03/14/25 04:59
Instrument Run:	031325ICP13A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	496.2043	99.20	500	503.6545	101
ANTIMONY	0	-0.002086477		0.50	0.4916988	98.30
ARSENIC	0	-0.01279534		0.50	0.4981194	99.60
BARIUM	0	0.002619021		0.50	0.509104	102
BERYLLIUM	0	-0.0001536712		0.50	0.4862593	97.30
BORON	0	-0.02232949		1	0.9562393	95.60
CADMIUM	0	0.0008528613		1	1.035464	104
CALCIUM	500	514.1431	103	500	521.1701	104
CERIUM	0	-0.001063017		0	-0.02026544	
CHROMIUM	0	-0.002979033		0.50	0.492489	98.50
COBALT	0	0.00159239		0.50	0.4858767	97.20
COPPER	0	-0.01526291		0.50	0.5252423	105
HOT WATER SOL. BORON	0	-0.02232949		0	0.9562393	
IRON	200	195.2338	97.60	200	197.935	99
LANTHANUM	0	-0.01051636		0	-0.013598	
LEAD	0	-0.008125236		1	0.9722736	97.20
LITHIUM	0	0.00176417		0	0.002810003	
MAGNESIUM	500	502.8524	101	500	509.9164	102
MANGANESE	0	0.00183131		0.50	0.4908768	98.20
MOLYBDENUM	0	0.001297667		0.50	0.492155	98.40
NICKEL	0	-0.008751665		1	0.9743154	97.40
PHOSPHORUS	0	0.01388616		0	0.01631892	
POTASSIUM	0	0.06423015		0	0.0824251	
SELENIUM	0	-0.01369754		0.50	0.4909211	98.20
SILICON	0	-0.02807171		1	0.9758864	97.60
SILVER	0	-0.000936874		1	0.8142002	81.40
SODIUM	0	0.08994594		0	0.1062749	
STRONTIUM	0	0.006285589		0	0.006349711	
SULFUR	0	-0.1753231		0	-0.1714899	
THALLIUM	0	-0.01496721		0.50	0.4631741	92.60
TIN	0	-0.006505654		0.50	0.472693	94.50
TITANIUM	0	-0.01672634		0.50	0.4696673	93.90
VANADIUM	0	-0.004223551		0.50	0.4747425	94.90
ZINC	0	0.01195954		1	0.9576966	95.80

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835142	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Date:**	03/18/25 06:55
Instrument Run:	031825ICP14		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	494.1831	98.80	500	502.8419	101
ANTIMONY	0	-0.00007910459		0.50	0.487334	97.50
ARSENIC	0	-0.005727671		0.50	0.488252	97.70
BARIUM	0	0.0008446654		0.50	0.5095689	102
BERYLLIUM	0	-0.0002410906		0.50	0.4876084	97.50
BORON	0	-0.152208		1	0.8509268	85.10
CADMIUM	0	0.000488171		1	1.003691	100
CALCIUM	500	492.6834	98.50	500	498.5639	99.70
CERIUM	0	-0.4555751		0	-0.4636518	
CHROMIUM	0	0.001053945		0.50	0.4876569	97.50
COBALT	0	0.001738617		0.50	0.4783524	95.70
COPPER	0	0.003177985		0.50	0.5227475	105
HOT WATER SOL. BORON	0	-0.152208		0	0.8509268	
IRON	200	195.0594	97.50	200	193.31	96.70
LANTHANUM	0	-0.02274236		0	-0.018813	
LEAD	0	0.0002545507		1	0.944592	94.50
LITHIUM	0	0.01774924		0	0.01784216	
MAGNESIUM	500	491.9888	98.40	500	493.8627	98.80
MANGANESE	0	0.0008510138		0.50	0.4859938	97.20
MOLYBDENUM	0	0.0004664925		0.50	0.4798879	96
NICKEL	0	0.005844987		1	0.9517932	95.20
PHOSPHORUS	0	-0.002399448		0	-0.01450273	
POTASSIUM	0	-0.08004133		0	-0.01990782	
SELENIUM	0	-0.000945845		0.50	0.4690568	93.80
SILICON	0	-0.01495384		1	0.8997236	90
SILVER	0	-0.001567729		1	0.8438925	84.40
SODIUM	0	0.05401555		0	0.09712089	
STRONTIUM	0	0.006623057		0	0.006486235	
SULFUR	0	0.03590742		0	0.04633822	
THALLIUM	0	0.004118128		0.50	0.4657968	93.20
TIN	0	-0.003372062		0.50	0.4621277	92.40
TITANIUM	0	0.04435137		0.50	0.5273376	105
VANADIUM	0	0.02461563		0.50	0.4739305	94.80
ZINC	0	0.07404286		1	0.9832541	98.30

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835142	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Date:**	03/18/25 18:23
Instrument Run:	031825ICP14		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	456.487	91.30	500	464.2003	92.80
ANTIMONY	0	0.0008205867		0.50	0.482436	96.50
ARSENIC	0	-0.003877736		0.50	0.4771948	95.40
BARIUM	0	0.001064813		0.50	0.4799383	96
BERYLLIUM	0	-0.0002947274		0.50	0.4952581	99.10
BORON	0	-0.1278973		1	0.8217681	82.20
CADMIUM	0	0.0004743672		1	0.994794	99.50
CALCIUM	500	469.4788	93.90	500	478.8722	95.80
CERIUM	0	-0.4182434		0	-0.3934709	
CHROMIUM	0	0.001143916		0.50	0.4683706	93.70
COBALT	0	0.001327014		0.50	0.4694728	93.90
COPPER	0	0.0007683355		0.50	0.4683201	93.70
HOT WATER SOL. BORON	0	-0.1278973		0	0.8217681	
IRON	200	189.9599	95	200	192.8771	96.40
LANTHANUM	0	-0.01633838		0	-0.009916585	
LEAD	0	0.005754861		1	0.9753132	97.50
LITHIUM	0	0.01780564		0	0.01854661	
MAGNESIUM	500	493.3348	98.70	500	508.4243	102
MANGANESE	0	0.0007408593		0.50	0.4575612	91.50
MOLYBDENUM	0	0.0001427013		0.50	0.4922739	98.50
NICKEL	0	0.003670314		1	1.00892	101
PHOSPHORUS	0	0.0003167557		0	-0.002427943	
POTASSIUM	0	-0.08037184		0	-0.05978984	
SELENIUM	0	-0.01791476		0.50	0.463832	92.80
SILICON	0	-0.01712778		1	0.9197477	92
SILVER	0	-0.001708738		1	0.8688705	86.90
SODIUM	0	0.04200149		0	0.09005307	
STRONTIUM	0	0.006609028		0	0.006627422	
SULFUR	0	0.01865104		0	0.03193098	
THALLIUM	0	0.005143327		0.50	0.4860017	97.20
TIN	0	-0.002785695		0.50	0.4586178	91.70
TITANIUM	0	0.04225847		0.50	0.5173087	103
VANADIUM	0	0.03252287		0.50	0.4729318	94.60
ZINC	0	0.07568476		1	1.001438	100

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835142	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Date:**	03/18/25 22:40
Instrument Run:	031825ICP14		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	451.5991	90.30	500	450.6092	90.10
ANTIMONY	0	0.001153924		0.50	0.4825496	96.50
ARSENIC	0	-0.001754868		0.50	0.4718651	94.40
BARIUM	0	0.00141007		0.50	0.4674043	93.50
BERYLLIUM	0	-0.0003232637		0.50	0.4974908	99.50
BORON	0	-0.1474		1	0.8185909	81.90
CADMIUM	0	0.0002319677		1	0.9963272	99.60
CALCIUM	500	476.0355	95.20	500	474.1921	94.80
CERIUM	0	-0.2451583		0	-0.3154266	
CHROMIUM	0	0.001566072		0.50	0.4703965	94.10
COBALT	0	0.001204682		0.50	0.4767801	95.40
COPPER	0	-0.001172786		0.50	0.449959	90
HOT WATER SOL. BORON	0	-0.1474		0	0.8185909	
IRON	200	196.1821	98.10	200	192.7913	96.40
LANTHANUM	0	-0.01463455		0	-0.01687667	
LEAD	0	0.001618508		1	1.010515	101
LITHIUM	0	0.01692851		0	0.01891555	
MAGNESIUM	500	520.3018	104	500	515.5711	103
MANGANESE	0	0.0008386103		0.50	0.4540857	90.80
MOLYBDENUM	0	-0.0001843129		0.50	0.4970138	99.40
NICKEL	0	0.004869091		1	1.05057	105
PHOSPHORUS	0	-0.004061363		0	0.003918251	
POTASSIUM	0	0.01058547		0	-0.001285594	
SELENIUM	0	-0.01726648		0.50	0.4639678	92.80
SILICON	0	-0.01677731		1	0.9353529	93.50
SILVER	0	-0.001931734		1	0.8411408	84.10
SODIUM	0	0.1946717		0	0.1933759	
STRONTIUM	0	0.006742394		0	0.006717094	
SULFUR	0	0.04184094		0	0.07657303	
THALLIUM	0	0.0005281807		0.50	0.4839214	96.80
TIN	0	-0.004400272		0.50	0.4604828	92.10
TITANIUM	0	0.04267186		0.50	0.5278746	106
VANADIUM	0	0.02965541		0.50	0.481307	96.30
ZINC	0	0.07569654		1	1.026594	103

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835142-01,03,05,06

SAMPLE NO.:
R4186367-4
R4186367-5

MS Sample / File ID:	R4186367-4 / 20250314023705	**SDG:**	L1835142
MSD Sample / File ID:	R4186367-5 / 20250314023954	**Analytical Batch:**	WG2467972
OS Sample / File ID:	L1835084-01 / 20250314023121	**Matrix:**	WW
Instrument ID:	ICP13		
Analytical Method:	200.7		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Arsenic	1000	6.41	1100	1100	109	110	1	70.0 - 130	0.109	20
Barium	1000	89.3	1150	1140	106	105	1	70.0 - 130	0.313	20
Boron	1000	411	1400	1420	99.0	101	1	70.0 - 130	1.23	20
Cadmium	1000	1.90	1060	1060	106	106	1	70.0 - 130	0.382	20
Chromium	1000	2.58	1070	1060	107	106	1	70.0 - 130	0.673	20
Cobalt	1000	3.39	1040	1040	104	104	1	70.0 - 130	0.197	20
Lead	1000	U	1050	1050	105	105	1	70.0 - 130	0.474	20
Lithium	1000	10.7	1080	1080	107	107	1	70.0 - 130	0.280	20
Selenium	1000	U	1080	1080	108	108	1	70.0 - 130	0.0684	20
Silver	200	U	212	211	106	106	1	70.0 - 130	0.398	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835142-01,03,05,06

SAMPLE NO.:
R4186367-6
R4186367-7

MS Sample / File ID: R4186367-6 / 20250314024545
MSD Sample / File ID: R4186367-7 / 20250314024834
OS Sample / File ID: L1835084-02 / 20250314024256
Instrument ID: ICP13
Analytical Method: 200.7

SDG: L1835142
Analytical Batch: WG2467972
Matrix: WW

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Arsenic	1000	7.74	1090	1100	109	110	1	70.0 - 130	0.740	20
Barium	1000	94.7	1140	1150	105	105	1	70.0 - 130	0.665	20
Boron	1000	430	1400	1400	96.7	97.5	1	70.0 - 130	0.594	20
Cadmium	1000	2.38	1050	1060	105	106	1	70.0 - 130	0.819	20
Chromium	1000	2.66	1060	1070	106	107	1	70.0 - 130	1.13	20
Cobalt	1000	3.57	1040	1050	103	104	1	70.0 - 130	0.846	20
Lead	1000	U	1040	1050	104	105	1	70.0 - 130	0.446	20
Lithium	1000	11.8	1070	1080	106	107	1	70.0 - 130	0.930	20
Selenium	1000	U	1070	1090	107	109	1	70.0 - 130	1.91	20
Silver	200	1.47	210	213	104	106	1	70.0 - 130	1.40	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835142-02,04,07

SAMPLE NO.:
R4187947-4
R4187947-5

MS Sample / File ID:	R4187947-4 / 20250318195620	**SDG:**	L1835142
MSD Sample / File ID:	R4187947-5 / 20250318195854	**Analytical Batch:**	WG2470166
OS Sample / File ID:	L1835142-02 / 20250318195056	**Matrix:**	WW
Instrument ID:	ICP14		
Analytical Method:	200.7		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Arsenic,Dissolved	1000	U	962	958	96.2	95.8	1	70.0 - 130	0.357	20
Barium,Dissolved	1000	43.9	960	958	91.6	91.4	1	70.0 - 130	0.236	20
Boron,Dissolved	1000	30.7	931	944	90.0	91.3	1	70.0 - 130	1.36	20
Cadmium,Dissolved	1000	U	956	950	95.6	95.0	1	70.0 - 130	0.552	20
Chromium,Dissolved	1000	U	947	941	94.7	94.1	1	70.0 - 130	0.635	20
Cobalt,Dissolved	1000	U	925	919	92.5	91.9	1	70.0 - 130	0.605	20
Lead,Dissolved	1000	U	990	982	99.0	98.2	1	70.0 - 130	0.746	20
Lithium,Dissolved	1000	5.82	953	957	94.7	95.2	1	70.0 - 130	0.501	20
Selenium,Dissolved	1000	U	983	987	98.3	98.7	1	70.0 - 130	0.408	20
Silver,Dissolved	200	U	177	176	88.3	88.2	1	70.0 - 130	0.122	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835142-01,03,05,06

SAMPLE NO.:
R4186367-2

LCS Sample / File ID:	R4186367-2 / 20250314022819	**SDG:**	L1835142
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467972
Instrument ID:	ICP13	**Dilution Factor:**	1
Analytical Method:	200.7	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Arsenic	1000	1040		104		85.0 - 115		
Barium	1000	1090		109		85.0 - 115		
Boron	1000	989		98.9		85.0 - 115		
Cadmium	1000	1030		103		85.0 - 115		
Chromium	1000	1090		109		85.0 - 115		
Cobalt	1000	1010		101		85.0 - 115		
Lead	1000	1020		102		85.0 - 115		
Lithium	1000	1060		106		85.0 - 115		
Selenium	1000	1050		105		85.0 - 115		
Silver	200	207		104		85.0 - 115		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835142-02,04,07

SAMPLE NO.:
R4187947-2

LCS Sample / File ID:	R4187947-2 / 20250318194809	**SDG:**	L1835142
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2470166
Instrument ID:	ICP14	**Dilution Factor:**	1
Analytical Method:	200.7	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Arsenic,Dissolved	1000	967		96.7		85.0 - 115		
Barium,Dissolved	1000	944		94.4		85.0 - 115		
Boron,Dissolved	1000	922		92.2		85.0 - 115		
Cadmium,Dissolved	1000	967		96.7		85.0 - 115		
Chromium,Dissolved	1000	967		96.7		85.0 - 115		
Cobalt,Dissolved	1000	945		94.5		85.0 - 115		
Lead,Dissolved	1000	1000		100		85.0 - 115		
Lithium,Dissolved	1000	968		96.8		85.0 - 115		
Selenium,Dissolved	1000	992		99.2		85.0 - 115		
Silver,Dissolved	200	179		89.6		85.0 - 115		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ICP AND ICP/MS SERIAL DILUTIONS

L1835142-01,03,05,06

SD Sample / File ID:	R4186367-3 / 20250314023416	**SDG:**	L1835142
OS Sample / File ID:	L1835084-01 / 20250314023121	**Analytical Batch:**	WG2467972
Lab File ID:	20250314023416	**Dilution Factor:**	5
Instrument ID:	ICP13	**Matrix:**	WW
Analytical Method:	200.7		

Analyte	OS Result	SD Result	RPD	RPD Limits
	ug/l	*ug/l*	*%*	*%*
Arsenic	6.41	U	0.000	10
Barium	89.3	91.7	2.66	10
Boron	411	415	1.03	10
Cadmium	1.90	U	0.000	10
Chromium	2.58	U	0.000	10
Cobalt	3.39	U	0.000	10
Lead	U	U	0.000	10
Lithium	10.7	U	0.000	10
Selenium	U	U	0.000	10
Silver	U	U	0.000	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4187947-3 / 20250318195346	**SDG:**	L1835142
OS Sample / File ID:	L1835142-02 / 20250318195056	**Analytical Batch:**	WG2470166
Lab File ID:	20250318195346	**Dilution Factor:**	5
Instrument ID:	ICP14	**Matrix:**	WW
Analytical Method:	200.7		

Analyte	OS Result	SD Result	RPD	RPD Limits
	ug/l	*ug/l*	*%*	*%*
Arsenic,Dissolved	U	U	0.000	10
Barium,Dissolved	43.9	41.4	5.87	10
Boron,Dissolved	30.7	U	0.000	10
Cadmium,Dissolved	U	U	0.000	10
Chromium,Dissolved	U	U	0.000	10
Cobalt,Dissolved	U	U	0.000	10
Lead,Dissolved	U	U	0.000	10
Lithium,Dissolved	5.82	U	0.000	10
Selenium,Dissolved	U	U	0.000	10
Silver,Dissolved	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835142-01,02,03,04,05,06,07 **Analytical Method:** 200.7

Matrix: WW **Prep Method:** 200.7

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/l	*mg/l*
Boron	7440-42-8	177.4950	249.6780	0.0285	0.20
Boron,Dissolved	7440-42-8	189.0420	249.6780	0.0285	0.20
Cadmium	7440-43-9	177.4950	228.8020	0.000492	0.0020
Cadmium,Dissolved	7440-43-9	189.0420	228.8020	0.000492	0.0020
Chromium	7440-47-3	177.4950	267.7160	0.000920	0.01
Chromium,Dissolved	7440-47-3	189.0420	267.7160	0.000920	0.01
Cobalt	7440-48-4	177.4950	228.6160	0.001020	0.01
Cobalt,Dissolved	7440-48-4	189.0420	228.6160	0.001020	0.01
Lead	7439-92-1	177.4950	220.3530	0.002720	0.0050
Lead,Dissolved	7439-92-1	189.0420	220.3530	0.002720	0.0050
Lithium	7439-93-2	177.4950	670.7840	0.0038	0.0150
Lithium,Dissolved	7439-93-2	189.0420	670.7840	0.0038	0.0150
Selenium	7782-49-2	177.4950	196.09	0.005290	0.01
Selenium,Dissolved	7782-49-2	189.0420	196.09	0.005290	0.01
Silver	7440-22-4	177.4950	328.0680	0.001340	0.0050
Silver,Dissolved	7440-22-4	189.0420	328.0680	0.001340	0.0050
Arsenic	7440-38-2	177.4950	189.0420	0.004780	0.01
Arsenic,Dissolved	7440-38-2	189.0420	189.0420	0.004780	0.01
Barium	7440-39-3	177.4950	233.5270	0.000675	0.0050
Barium,Dissolved	7440-39-3	189.0420	233.5270	0.000675	0.0050

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L1835142 **Analytical Method:** 200.7

Instrument ID: ICP13 **Date:** 07/28/23 07:16

Analyte	Wavelength	ARSENIC	CERIUM	CHROMIUM	COBALT	COPPER	IRON	LANTHANUM
	nm	189.0420	535.3530	267.7160	228.6160	324.7540	271.4410	333.7490
ALUMINUM	308.2150							
ANTIMONY	206.8330			-0.00043260				
ARSENIC	189.0420							-0.00532076
BERYLLIUM	313.0420							
CADMIUM	228.8020	-0.15291673						
COBALT	228.6160							
LEAD	220.3530		-0.00035078			-0.00001401	-0.00041235	0.00000145
NICKEL	231.6040						-0.00098060	
PHOSPHORUS	177.4950							
THALLIUM	190.8560				-0.00008407			
TITANIUM	334.9410			-0.00012044				

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L1835142 **Analytical Method:** 200.7

Instrument ID: ICP13 **Date:** 07/28/23 07:16

Analyte	Wavelength	MAGNESIUM	MANGANESE	MOLYBDENUM	POTASSIUM	SILICON	SULFUR	TITANIUM
	nm	279.0790	257.61	202.03	766.49	251.6110	182.0340	334.9410
ALUMINUM	308.2150			-0.00393995				
ANTIMONY	206.8330	-0.00013070			-0.00001138		-0.00557514	
ARSENIC	189.0420			-0.00023896				
BERYLLIUM	313.0420							
CADMIUM	228.8020							
COBALT	228.6160							-0.00163701
LEAD	220.3530					-0.00003453		
NICKEL	231.6040							
PHOSPHORUS	177.4950					-0.00001698		
THALLIUM	190.8560		-0.00000157	-0.00027950				
TITANIUM	334.9410							

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG:	L1835142	**Analytical Method:**	200.7
Instrument ID:	ICP13	**Date:**	07/28/23 07:16

Analyte	Wavelength	VANADIUM	ZINC
	nm	292.4020	206.20
ALUMINUM	308.2150		
ANTIMONY	206.8330		-0.00016041
ARSENIC	189.0420		
BERYLLIUM	313.0420	-0.01698239	
CADMIUM	228.8020		
COBALT	228.6160		
LEAD	220.3530		
NICKEL	231.6040		
PHOSPHORUS	177.4950	-0.00005985	
THALLIUM	190.8560		
TITANIUM	334.9410		

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L1835142 **Analytical Method:** 200.7

Instrument ID: ICP14 **Date:** 01/16/23 09:38

Analyte	Wavelength	ARSENIC	CALCIUM	CERIUM	CHROMIUM	COBALT	COPPER	LANTHANUM
	nm	189.0420	373.69	535.3530	267.7160	228.6160	324.7540	333.7490
ALUMINUM	308.2150							
ANTIMONY	206.8330				-0.00015856			
ARSENIC	189.0420							-0.00621426
BERYLLIUM	313.0420							
CADMIUM	228.8020	-0.08940684						
COBALT	228.6160							
LEAD	220.3530			-0.00420725			-0.00001296	
STRONTIUM	421.5520		-0.00160714					
THALLIUM	190.8560					-0.00011278		

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG:	L1835142	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Date:**	01/16/23 09:38

Analyte	Wavelength	MANGANESE	TITANIUM	VANADIUM
	nm	257.61	334.9410	292.4020
ALUMINUM	308.2150			-0.00554640
ANTIMONY	206.8330			
ARSENIC	189.0420			
BERYLLIUM	313.0420			-0.01066047
CADMIUM	228.8020			
COBALT	228.6160		-0.00141584	
LEAD	220.3530			
STRONTIUM	421.5520			
THALLIUM	190.8560	-0.00000569		

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1835142	**Analytical Method:**	200.7
Instrument ID:	ICP13	**Date:**	02/10/25 14:29

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	200
POTASSIUM	500
SELENIUM	10
SILICON	100
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1835142	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Date:**	02/09/25 19:27

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	4
POTASSIUM	500
SELENIUM	10
SILICON	50
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

ANALYSIS LOG

SDG:	L1835142	**Analytical Method:**	200.7
Instrument ID:	ICP13	**Calibration Start Date:**	03/13/25 07:57
Analytical Run:	031325ICP13A	**Calibration End Date:**	03/13/25 08:13

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP130313250754	20250313075411	03/13/25 07:54		
CAL	STD1	20250313075707	03/13/25 07:57		
CAL	STD2	20250313075956	03/13/25 07:59		
CAL	STD3	20250313080241	03/13/25 08:02		
CAL	STD4	20250313080523	03/13/25 08:05		
CAL	STD5	20250313080802	03/13/25 08:08		
CAL	STD6	20250313081055	03/13/25 08:10		
CAL	STD7	20250313081353	03/13/25 08:13		
ICV	ICP130313250817-3	20250313081710-3	03/13/25 08:17		
ICB	ICP130313250834-3	20250313083414-3	03/13/25 08:34		
ICVLL	ICP130313250842-3	20250313084248-3	03/13/25 08:42		
ICSA	ICP130313250845-3	20250313084540-3	03/13/25 08:45		
ICSAB	ICP130313250848-3	20250313084821-3	03/13/25 08:48		
ICSA	ICP130314250108-2	20250314010819-2	03/14/25 01:08		
ICSAB	ICP130314250111-2	20250314011110-2	03/14/25 01:11		
CCV	ICP130314250158	20250314015843	03/14/25 01:58		
CCB	ICP130314250201	20250314020141	03/14/25 02:01		
BLANK	R4186367-1	20250314022537	03/14/25 02:25	1	WG2467972
LCS	R4186367-2	20250314022819	03/14/25 02:28	1	WG2467972
OS	L1835084-01	20250314023121	03/14/25 02:31		
L1835084-01	L1835084-01	20250314023121	03/14/25 02:31	1	WG2467972
SD	R4186367-3	20250314023416	03/14/25 02:34	5	WG2467972
MS	R4186367-4	20250314023705	03/14/25 02:37	1	WG2467972
MSD	R4186367-5	20250314023954	03/14/25 02:39	1	WG2467972
OS	L1835084-02	20250314024256	03/14/25 02:42		
L1835084-02	L1835084-02	20250314024256	03/14/25 02:42	1	WG2467972
MS	R4186367-6	20250314024545	03/14/25 02:45	1	WG2467972
MSD	R4186367-7	20250314024834	03/14/25 02:48	1	WG2467972
L1835052-03	L1835052-03	20250314025130	03/14/25 02:51	1	WG2467972
CCV	ICP130314250254	20250314025414	03/14/25 02:54		
CCB	ICP130314250257	20250314025712	03/14/25 02:57		
MONTROSE-LAKE-S-SW	L1835142-01	20250314030005	03/14/25 03:00	1	WG2467972
DEEPWATER-S-SW	L1835142-03	20250314030258	03/14/25 03:02	1	WG2467972
DUP3-SW	L1835142-05	20250314030550	03/14/25 03:05	1	WG2467972
TRUMAN-S-SW	L1835142-06	20250314030843	03/14/25 03:08	1	WG2467972
L1835143-01	L1835143-01	20250314031144	03/14/25 03:11	1	WG2467972
L1835163-01	L1835163-01	20250314031442	03/14/25 03:14	1	WG2467972
L1835163-02	L1835163-02	20250314031741	03/14/25 03:17	1	WG2467972
L1835163-03	L1835163-03	20250314032036	03/14/25 03:20	1	WG2467972
L1835163-04	L1835163-04	20250314032330	03/14/25 03:23	1	WG2467972
L1835163-05	L1835163-05	20250314032624	03/14/25 03:26	1	WG2467972
CCV	ICP130314250329	20250314032907	03/14/25 03:29		
CCB	ICP130314250332	20250314033205	03/14/25 03:32		
ICSA	ICP130314250459	20250314045923	03/14/25 04:59		
ICSAB	ICP130314250502	20250314050214	03/14/25 05:02		

ANALYSIS LOG

SDG:	L1835142	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Calibration Start Date:**	03/18/25 06:06
Analytical Run:	031825ICP14	**Calibration End Date:**	03/18/25 06:22

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP140318250603	20250318060323	03/18/25 06:03		
CAL	STD1	20250318060614	03/18/25 06:06		
CAL	STD2	20250318060854	03/18/25 06:08		
CAL	STD3	20250318061132	03/18/25 06:11		
CAL	STD4	20250318061409	03/18/25 06:14		
CAL	STD5	20250318061641	03/18/25 06:16		
CAL	STD6	20250318061906	03/18/25 06:19		
CAL	STD7	20250318062200	03/18/25 06:22		
ICV	ICP140318250625-3	20250318062505-3	03/18/25 06:25		
ICB	ICP140318250644-3	20250318064440-3	03/18/25 06:44		
ICVLL	ICP140318250652-3	20250318065255-3	03/18/25 06:52		
ICSA	ICP140318250655-3	20250318065541-3	03/18/25 06:55		
ICSAB	ICP140318250658-3	20250318065813-3	03/18/25 06:58		
CCVLL	ICP140318251433-3	20250318143336-3	03/18/25 14:33		
CCV	ICP140318251809-2	20250318180914-2	03/18/25 18:09		
CCB	ICP140318251812-2	20250318181206-2	03/18/25 18:12		
ICSA	ICP140318251823-3	20250318182309-3	03/18/25 18:23		
ICSAB	ICP140318251825-3	20250318182543-3	03/18/25 18:25		
BLANK	R4187947-1	20250318194535	03/18/25 19:45	1	WG2470166
LCS	R4187947-2	20250318194809	03/18/25 19:48	1	WG2470166
MONTROSE-LAKE-S-SW-FILTERED	L1835142-02	20250318195056	03/18/25 19:50	1	WG2470166
SD	R4187947-3	20250318195346	03/18/25 19:53	5	WG2470166
MS	R4187947-4	20250318195620	03/18/25 19:56	1	WG2470166
MSD	R4187947-5	20250318195854	03/18/25 19:58	1	WG2470166
DEEPWATER-S-SW-FILTERED	L1835142-04	20250318200140	03/18/25 20:01	1	WG2470166
TRUMAN-S-SW-FILTERED	L1835142-07	20250318200427	03/18/25 20:04	1	WG2470166
L1835192-01	L1835192-01	20250318200714	03/18/25 20:07	1	WG2470166
L1835192-02	L1835192-02	20250318201000	03/18/25 20:10	1	WG2470166
CCV	ICP140318252012	20250318201238	03/18/25 20:12		
CCB	ICP140318252015	20250318201529	03/18/25 20:15		
ICSA	ICP140318252240	20250318224055	03/18/25 22:40		
ICSAB	ICP140318252243	20250318224329	03/18/25 22:43		

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.009588302	95.90	0.20	.1970021	98.50
BARIUM	0.0050	.005309759	106	0.10	.1047794	105
BORON	0.20	.1935487	96.80			
CADMIUM	0.0020	.002301154	115	0.10	.09803636	98
CHROMIUM	0.01	.01055609	106	0.20	.2099074	105
COBALT	0.01	.009639231	96.40	0.20	.1946322	97.30
LEAD	0.0050	.005544055	111	0.10	.09873343	98.70
LITHIUM	0.0150	.01369792	91.30	0.20	.1987796	99.40
SELENIUM	0.01	.008234783	82.30	0.20	.1836213	91.80
SILVER	0.0050	.004955423	99.10	0.10	.1023674	102
File ID:		20250313075707			20250313075956	

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INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.3897012	97.40	1	.9748541	97.50
BARIUM	0.20	.2072471	104	0.50	.5089387	102
BORON	0.40	.3907844	97.70	1	.9882532	98.80
CADMIUM	0.20	.1962672	98.10	0.50	.490597	98.10
CHROMIUM	0.40	.4159336	104	1	1.011687	101
COBALT	0.40	.3920766	98	1	.9822066	98.20
LEAD	0.20	.197483	98.70	0.50	.4946227	98.90
LITHIUM	0.40	.3930345	98.30	1	.9749498	97.50
SELENIUM	0.40	.3888387	97.20	1	.9735526	97.40
SILVER	0.20	.2042279	102	0.50	.4915499	98.30
File ID:		20250313080241			20250313080523	

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.000484	100	4	4.007225	100
BARIUM	1	1.016777	102	2	1.988413	99.40
BORON	2	1.991106	99.60	4	4.008628	100
CADMIUM	1	.9957446	99.60	2	2.00495	100
CHROMIUM	2	2.022657	101	4	3.983659	99.60
COBALT	2	1.996962	99.80	4	4.007029	100
LEAD	1	.9976466	99.80	2	2.002835	100
LITHIUM	2	1.971233	98.60	4	4.021408	101
SELENIUM	2	2.001812	100	4	4.007645	100
SILVER	1	.9925209	99.30	2	2.005311	100
File ID:		20250313080802			20250313081055	

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.008391544	83.90	0.20	.1984675	99.20
BARIUM	0.0050	.005737371	115	0.10	.1072751	107
BORON	0.20	.1846647	92.30			
CADMIUM	0.0020	.002103661	105	0.10	.1025344	103
CHROMIUM	0.01	.01077194	108	0.20	.2067293	103
COBALT	0.01	.01001011	100	0.20	.1957697	97.90
LEAD	0.0050	.004507305	90.10	0.10	.1007226	101
LITHIUM	0.0150	.01798218	120	0.20	.1991884	99.60
SELENIUM	0.01	.01056991	106	0.20	.2011702	101
SILVER	0.0050	.005358833	107	0.10	.1023584	102
File ID:		20250318060614			20250318060854	

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INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.4047668	101	1	1.0334	103
BARIUM	0.20	.2165818	108	0.50	.5409844	108
BORON	0.40	.3863873	96.60	1	1.040533	104
CADMIUM	0.20	.2081274	104	0.50	.5169942	103
CHROMIUM	0.40	.4173736	104	1	1.048755	105
COBALT	0.40	.3981952	99.50	1	1.021361	102
LEAD	0.20	.2014787	101	0.50	.5067166	101
LITHIUM	0.40	.407441	102	1	1.024951	102
SELENIUM	0.40	.4006058	100	1	1.025253	103
SILVER	0.20	.2073076	104	0.50	.52071	104
File ID:		20250318061132			20250318061409	

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.031751	102	4	3.975378	99.40
BARIUM	1	1.017005	102	2	1.979227	99
BORON	2	1.999691	100	4	3.992149	99.80
CADMIUM	1	1.006052	101	2	1.991786	99.60
CHROMIUM	2	2.015746	101	4	3.977862	99.40
COBALT	2	1.999575	100	4	3.995264	99.90
LEAD	1	.9946574	99.50	2	2.000809	100
LITHIUM	2	2.005197	100	4	3.990449	99.80
SELENIUM	2	2.006898	100	4	3.990117	99.80
SILVER	1	.9932089	99.30	2	1.997368	99.90
File ID:		20250318061641			20250318061906	

16A-IN

INITIAL CALIBRATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999969	108.4947	-0.655814
BARIUM	233.527	8	5	0.999911	4227.523	-0.327624
BORON	249.678	8	5	0.999982	311.6607	4.007682
CADMIUM	228.802	8	5	0.999977	6590.507	1.438663
CHROMIUM	267.716	8	5	0.999951	9840.71	4.27891
COBALT	228.616	8	5	0.999982	4145.749	-4.742611
LEAD	220.353	8	5	0.999992	648.1994	-1.463538
LITHIUM	670.784	8	5	0.999925	7871.798	-13.19208
SELENIUM	196.09	8	5	0.999956	87.51796	0.455586
SILVER	328.068	8	5	0.999972	12727.44	107.3858

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16A-IN

INITIAL CALIBRATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999893	228.8966	0.136662
BARIUM	233.527	8	5	0.999569	5148.339	-7.675813
BORON	249.678	8	5	0.999908	52.04243	0.080356
CADMIUM	228.802	8	5	0.999928	10423.9	-11.24939
CHROMIUM	267.716	8	5	0.999865	12149.93	-8.627506
COBALT	228.616	8	5	0.999981	5453.133	-2.378112
LEAD	220.353	8	5	0.999988	586.6981	-1.84719
LITHIUM	670.784	8	5	0.999969	4646.711	10.72323
SELENIUM	196.09	8	5	0.99997	168.0725	1.059091
SILVER	328.068	8	5	0.999916	16077.07	-13.21855

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

Sample ID: CALBLK Units: mg/l
Analyzed: 03/13/25 07:54 Sequence: 2 Standard ID: 25C10350

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11208.33	11201.45	11223.62	11199.93
YTTRIUM	360.073	Axial	326176.3	325943.6	326849.5	325735.7
YTTRIUM	360.073	Radial	12681.00	12625.39	12667.80	12749.79
INDIUM	230.606	Axial	3339.227	3342.158	3338.931	3336.591

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	11.56176	11.37663	9.720239	13.58842
ANTIMONY	206.833	Axial	0.5279300	0.04744767	1.468005	0.06833675
ARSENIC	189.042	Axial	-0.6558663	-1.032279	-0.7069266	-0.2283931
BARIUM	233.527	Axial	-0.3278911	-0.6918980	-0.6843077	0.3925325
BERYLLIUM	313.042	Radial	-9.61313	-8.935993	-12.15856	-7.744837
BORON	249.678	Radial	4.007712	5.735661	1.332445	4.955030
CADMIUM	228.802	Axial	1.438325	0.3855795	1.027540	2.901855
CALCIUM	317.933	Radial	82.07239	79.88362	81.14035	85.19320
CALCIUM	373.690	Radial	24.07244	21.86201	19.23718	31.11814
CERIUM	535.353	Radial	347.8054	348.1020	348.8230	346.4912
CHROMIUM	267.716	Axial	4.277778	1.388889	2.861111	8.583333
COBALT	228.616	Axial	-4.74258	-4.247680	-5.810974	-4.169095
COPPER	324.754	Axial	212.6859	212.8640	221.0370	204.1568
IRON	259.940	Radial	42.43108	43.76559	40.88941	42.63824
IRON	271.441	Radial	-0.7121157	-0.6095871	-1.859871	0.3331113
LANTHANUM	333.749	Radial	2.788005	2.950956	3.289474	2.123584
LEAD	220.353	Axial	-1.46403	-2.756384	-0.5317859	-1.103941
LITHIUM	670.784	Radial	-13.1969	-5.818786	-22.07972	-11.69221
MAGNESIUM	279.079	Radial	0.1764856	-1.108340	-0.3608705	1.998668
MANGANESE	257.610	Axial	15.64532	16.93730	16.98208	13.01659
MOLYBDENUM	202.030	Axial	0.8830903	1.177124	0.9983361	0.4738108
NICKEL	231.604	Axial	-5.59563	-5.142448	-6.114660	-5.529791
PHOSPHORUS	177.495	Axial	0.6485241	0.8229132	1.110454	0.01220525
POTASSIUM	766.490	Radial	-68.9347	-46.71654	-77.42061	-82.66711
SELENIUM	196.090	Axial	0.4554412	1.066260	0.2113256	0.08873820
SILICON	251.611	Axial	16.65040	15.36398	17.79446	16.79275
SILVER	328.068	Axial	107.3856	97.01179	107.9178	117.2272
SODIUM	589.592	Radial	51.67324	46.50873	57.96136	50.54963
SODIUM	818.326	Radial	-123.872	-138.6672	-97.93471	-135.0142
STRONTIUM	421.552	Radial	16.65422	17.34553	14.74017	17.87697
SULFUR	182.034	Axial	1.824111	1.743476	2.163062	1.565797
THALLIUM	190.856	Axial	0.8206614	1.186377	0.6820215	0.5935857
TIN	189.989	Axial	0.2218949	0.04812141	0.5509336	0.06662965
TITANIUM	334.941	Radial	-3.10670	-3.823774	-1.082612	-4.413724
VANADIUM	292.402	Radial	-0.6836131	1.138525	-1.806188	-1.383176
ZINC	206.200	Axial	8.211232	8.662876	7.250298	8.720523

Sample ID: STD1 Units: mg/l
Analyzed: 03/13/25 07:57 Sequence: 3 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11170.74	11147.13	11190.58	11174.51
YTTRIUM	360.073	Axial	327177.5	325041.7	329197.4	327293.4
YTTRIUM	360.073	Radial	12647.12	12690.92	12638.32	12612.10
INDIUM	230.606	Axial	3302.528	3285.826	3315.437	3306.319

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	30.52230	31.73089	29.00251	30.83352
ANTIMONY	206.833	Axial	2.335024	2.522619	2.376930	2.105524
ARSENIC	189.042	Axial	0.3834684	0.3380825	0.9171131	-0.1047903
BARIUM	233.527	Axial	22.04511	22.13950	21.89506	22.10077
BERYLLIUM	313.042	Radial	54.57424	51.83181	57.50333	54.38757
BORON	249.678	Radial	64.15696	64.44629	63.37442	64.65016
CADMIUM	228.802	Axial	16.54738	17.65988	15.68409	16.29816
CALCIUM	317.933	Radial	831.9911	830.5579	831.0848	834.3305
CHROMIUM	267.716	Axial	107.7963	107.6111	109.6111	106.1667
COBALT	228.616	Axial	34.83051	35.32098	34.68056	34.48999
COPPER	324.754	Axial	487.1706	482.0377	484.0124	495.4618
IRON	259.940	Radial	97.70550	96.25312	98.22618	98.63719
LEAD	220.353	Axial	2.105520	2.409590	1.533828	2.373142
LITHIUM	670.784	Radial	94.37984	94.66001	90.86165	97.61786
MAGNESIUM	279.079	Radial	52.45168	51.76242	52.63158	52.96105
MANGANESE	257.610	Axial	789.6795	790.1495	789.4045	789.4845
MOLYBDENUM	202.030	Axial	5.232718	5.219323	5.731189	4.747643
NICKEL	231.604	Axial	13.33299	13.87873	13.10470	13.01556
PHOSPHORUS	177.495	Axial	10.65186	10.86323	10.55169	10.54066
POTASSIUM	766.490	Radial	272.4084	265.0014	274.1783	278.0455
SELENIUM	196.090	Axial	1.171668	2.052548	1.296908	0.1655467
SILICON	251.611	Axial	770.9182	768.7934	770.9378	773.0234
SILVER	328.068	Axial	169.8750	179.1811	168.2598	162.1842
SODIUM	589.592	Radial	1265.805	1286.470	1258.827	1252.119
STRONTIUM	421.552	Radial	442.9663	450.6245	441.7888	436.4855
SULFUR	182.034	Axial	60.85435	60.58856	61.20910	60.76539
THALLIUM	190.856	Axial	2.126710	2.275680	2.204274	1.900177
TIN	189.989	Axial	13.93623	13.87377	14.44999	13.48493
TITANIUM	334.941	Radial	206.8685	210.6578	204.2805	205.6673
VANADIUM	292.402	Radial	12.54647	11.57570	14.22101	11.84269
ZINC	206.200	Axial	99.08491	99.86016	99.65101	97.74355

Sample ID: STD2 Units: mg/l
Analyzed: 03/13/25 07:59 Sequence: 4 Standard ID: 25C13924

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11088.60	11085.86	11098.19	11081.74
YTTRIUM	360.073	Axial	319425.7	316951.8	319967.8	321357.5
YTTRIUM	360.073	Radial	12503.53	12505.87	12576.71	12428.01
INDIUM	230.606	Axial	3221.464	3223.304	3223.776	3217.312

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	201.5054	204.8774	200.2470	199.3919
ANTIMONY	206.833	Axial	21.03051	21.90698	20.42907	20.75549
ARSENIC	189.042	Axial	20.49678	21.23129	20.76941	19.48964
BARIUM	233.527	Axial	437.9008	439.5013	436.8157	437.3853
BERYLLIUM	313.042	Radial	1264.202	1259.692	1267.125	1265.789
CADMIUM	228.802	Axial	640.6308	640.1612	641.9596	639.7715
CALCIUM	317.933	Radial	7481.393	7496.977	7482.250	7464.950
CALCIUM	373.690	Radial	4723.434	4731.864	4738.083	4700.355
CHROMIUM	267.716	Axial	2047.802	2056.396	2041.313	2045.697
COBALT	228.616	Axial	773.8630	774.0312	772.6608	774.8971
COPPER	324.754	Axial	5451.963	5433.747	5429.200	5492.942
IRON	259.940	Radial	1106.807	1113.311	1108.458	1098.650
LEAD	220.353	Axial	60.33051	60.07248	61.39960	59.51945
LITHIUM	670.784	Radial	1529.811	1530.211	1529.600	1529.623
MAGNESIUM	279.079	Radial	105.7503	105.5186	106.0556	105.6768
MANGANESE	257.610	Axial	14860.68	14898.66	14809.64	14873.73
MOLYBDENUM	202.030	Axial	40.95227	40.28086	41.38926	41.18670
NICKEL	231.604	Axial	342.9863	342.1200	344.3580	342.4810
PHOSPHORUS	177.495	Axial	21.16235	21.27097	21.43405	20.78202
POTASSIUM	766.490	Radial	3243.867	3251.082	3272.833	3207.688
SELENIUM	196.090	Axial	16.34918	16.42397	16.29355	16.33003
SILICON	251.611	Axial	1559.380	1556.576	1542.114	1579.449
SILVER	328.068	Axial	1395.193	1396.467	1390.991	1398.122
SODIUM	589.592	Radial	11973.96	11986.65	12023.63	11911.60
SODIUM	818.326	Radial	582.7318	583.4928	589.2604	575.4423
STRONTIUM	421.552	Radial	8346.741	8354.770	8400.028	8285.425
THALLIUM	190.856	Axial	24.64479	23.75519	25.11966	25.05952
TIN	189.989	Axial	27.53887	27.45011	28.01080	27.15570
TITANIUM	334.941	Radial	821.4125	825.8735	822.1667	816.1973
VANADIUM	292.402	Radial	137.3775	138.0837	139.6516	134.3973
ZINC	206.200	Axial	377.9375	376.5493	379.3725	377.8907

Sample ID: STD3 Units: mg/l
Analyzed: 03/13/25 08:02 Sequence: 5 Standard ID: 25C13926

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10980.42	10958.46	10992.81	10990.00
YTTRIUM	360.073	Axial	315768.8	315149.2	316734.2	315423.0
YTTRIUM	360.073	Radial	12456.63	12488.41	12461.55	12419.95
INDIUM	230.606	Axial	3141.105	3139.925	3144.750	3138.640

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	393.4279	391.4003	399.6804	389.2032
ANTIMONY	206.833	Axial	41.43597	41.26603	41.27877	41.76311
ARSENIC	189.042	Axial	40.77854	40.46992	40.81320	41.05249
BARIUM	233.527	Axial	858.0021	859.9148	858.7128	855.3787
BERYLLIUM	313.042	Radial	2520.042	2521.647	2533.578	2504.902
BORON	249.678	Radial	123.5721	122.9433	123.4378	124.3353
CADMIUM	228.802	Axial	1268.607	1267.347	1272.672	1265.800
CALCIUM	373.690	Radial	9309.496	9321.755	9332.306	9274.427
CHROMIUM	267.716	Axial	4014.042	4010.767	4029.138	4002.220
COBALT	228.616	Axial	1524.550	1525.543	1526.283	1521.823
COPPER	324.754	Axial	10470.91	10486.05	10500.96	10425.72
IRON	259.940	Radial	2146.512	2150.324	2146.059	2143.154
LEAD	220.353	Axial	119.0363	118.3556	118.5773	120.1760
LITHIUM	670.784	Radial	3026.160	3016.941	3028.484	3033.056
MAGNESIUM	279.079	Radial	203.6490	205.2241	204.2993	201.4235
MANGANESE	257.610	Axial	28882.14	28896.75	28885.37	28864.29
MOLYBDENUM	202.030	Axial	79.49453	79.63600	79.27388	79.57371
NICKEL	231.604	Axial	675.7150	674.6587	676.6615	675.8249
PHOSPHORUS	177.495	Axial	40.35956	41.48365	40.55127	39.04375
POTASSIUM	766.490	Radial	6491.647	6486.095	6512.442	6476.404
SELENIUM	196.090	Axial	33.78447	33.93493	33.37188	34.04659
SILICON	251.611	Axial	3087.711	3082.534	3093.203	3087.395
SILVER	328.068	Axial	2651.647	2645.511	2663.943	2645.487
SODIUM	818.326	Radial	1281.188	1271.893	1295.482	1276.189
STRONTIUM	421.552	Radial	16502.36	16488.56	16567.54	16450.98
SULFUR	182.034	Axial	118.8792	119.0878	119.0550	118.4947
THALLIUM	190.856	Axial	47.22136	47.12596	47.54559	46.99252
TIN	189.989	Axial	52.78462	52.44331	53.05383	52.85672
TITANIUM	334.941	Radial	1626.372	1611.102	1641.476	1626.537
VANADIUM	292.402	Radial	275.3429	277.0000	274.8561	274.1725
ZINC	206.200	Axial	740.9633	739.4679	742.9061	740.5160

Sample ID: STD4 Units: mg/l
Analyzed: 03/13/25 08:05 Sequence: 6 Standard ID: 25C13927

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10734.69	10755.49	10711.73	10736.86
YTTRIUM	360.073	Axial	305530.9	304568.0	307781.2	304243.5
YTTRIUM	360.073	Radial	12417.45	12461.83	12362.50	12428.01
INDIUM	230.606	Axial	2997.820	3003.742	2991.057	2998.660

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	949.5517	951.4848	942.0310	955.1393
ANTIMONY	206.833	Axial	101.7049	101.2961	101.3514	102.4671
ARSENIC	189.042	Axial	100.6692	101.5173	100.5734	99.91705
BARIUM	233.527	Axial	2060.312	2062.722	2059.460	2058.754
BERYLLIUM	313.042	Radial	6228.679	6229.875	6216.559	6239.602
BORON	249.678	Radial	305.5216	304.1667	303.6308	308.7673
CADMIUM	228.802	Axial	3098.026	3102.542	3093.052	3098.484
CALCIUM	373.690	Radial	22723.99	22813.67	22653.51	22704.79
CHROMIUM	267.716	Axial	9539.123	9574.573	9514.721	9528.074
COBALT	228.616	Axial	3651.391	3652.209	3648.883	3653.082
COPPER	324.754	Axial	24829.85	24965.49	24746.71	24777.35
IRON	259.940	Radial	5189.195	5222.042	5169.948	5175.595
IRON	271.441	Radial	277.7468	277.2778	277.4454	278.5172
LEAD	220.353	Axial	286.5185	286.6694	287.6607	285.2254
LITHIUM	670.784	Radial	7502.231	7527.956	7443.375	7535.363
MAGNESIUM	279.079	Radial	500.1955	502.0278	499.6123	498.9464
MANGANESE	257.610	Axial	69098.72	69265.78	69070.64	68959.74
MOLYBDENUM	202.030	Axial	191.7592	191.5687	192.5737	191.1353
NICKEL	231.604	Axial	1623.232	1622.191	1628.995	1618.511
PHOSPHORUS	177.495	Axial	99.57153	100.2566	98.63552	99.82248
POTASSIUM	766.490	Radial	16181.41	16267.42	16055.39	16221.43
SELENIUM	196.090	Axial	82.03847	81.65517	82.31880	82.14145
SILICON	251.611	Axial	7582.422	7555.803	7598.117	7593.347
SILVER	328.068	Axial	6094.647	6117.061	6084.607	6082.274
SODIUM	818.326	Radial	3286.243	3305.035	3258.454	3295.240
STRONTIUM	421.552	Radial	40398.00	40570.61	40112.63	40510.76
SULFUR	182.034	Axial	291.5864	292.5449	291.6121	290.6021
THALLIUM	190.856	Axial	109.6756	109.8460	110.1382	109.0425
TIN	189.989	Axial	128.2177	128.2302	128.4811	127.9419
TITANIUM	334.941	Radial	3997.613	3993.333	3995.929	4003.577
VANADIUM	292.402	Radial	677.0856	681.8072	671.8831	677.5666
ZINC	206.200	Axial	1787.025	1792.383	1792.907	1775.783

Sample ID: STD5 Units: mg/l
Analyzed: 03/13/25 08:08 Sequence: 7 Standard ID: 25C13929

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10464.66	10459.32	10459.95	10474.70
YTTRIUM	360.073	Axial	298958.5	299788.8	298684.7	298402.0
YTTRIUM	360.073	Radial	12305.33	12317.65	12309.22	12289.12
INDIUM	230.606	Axial	2856.097	2855.538	2854.657	2858.096

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1895.356	1894.734	1893.927	1897.408
ANTIMONY	206.833	Axial	201.3482	200.5907	202.1765	201.2774
ARSENIC	189.042	Axial	202.0291	200.8541	202.5175	202.7155
BARIUM	233.527	Axial	4012.934	4015.118	4011.004	4012.680
BERYLLIUM	313.042	Radial	12362.77	12328.67	12403.99	12355.65
BORON	249.678	Radial	606.0533	607.0478	602.7135	608.3986
CADMIUM	228.802	Axial	6128.375	6141.994	6121.222	6121.910
CALCIUM	373.690	Radial	45099.17	45046.79	45172.33	45078.40
CHROMIUM	267.716	Axial	18587.70	18623.47	18564.35	18575.27
COBALT	228.616	Axial	7077.027	7076.060	7077.519	7077.502
COPPER	324.754	Axial	48635.03	48561.26	48925.51	48418.31
IRON	271.441	Radial	546.6210	548.6492	548.8597	542.3541
LEAD	220.353	Axial	551.8595	551.9932	550.9466	552.6388
LITHIUM	670.784	Radial	15044.63	14997.10	15082.25	15054.54
MAGNESIUM	279.079	Radial	990.0760	986.9640	988.7909	994.4731
MANGANESE	257.610	Axial	134536.8	134545.1	134443.8	134621.5
MOLYBDENUM	202.030	Axial	371.7866	370.9332	372.7677	371.6591
NICKEL	231.604	Axial	3138.563	3137.631	3132.572	3145.486
PHOSPHORUS	177.495	Axial	196.0847	196.3132	195.9989	195.9421
POTASSIUM	766.490	Radial	32640.88	32586.40	32676.24	32660.00
SELENIUM	196.090	Axial	163.9952	164.8508	163.7935	163.3412
SILICON	251.611	Axial	15077.65	14924.00	15150.37	15158.57
SILVER	328.068	Axial	11894.33	11858.99	11957.74	11866.27
SODIUM	818.326	Radial	6693.929	6686.817	6700.995	6693.975
STRONTIUM	421.552	Radial	80704.61	80512.18	80876.26	80725.41
SULFUR	182.034	Axial	585.6215	586.3465	585.6064	584.9117
THALLIUM	190.856	Axial	207.9659	209.2718	208.4943	206.1315
TIN	189.989	Axial	246.3680	244.3951	247.4530	247.2558
TITANIUM	334.941	Radial	8005.464	8012.648	8006.409	7997.334
VANADIUM	292.402	Radial	1347.731	1347.040	1345.597	1350.556
ZINC	206.200	Axial	3475.645	3463.884	3472.869	3490.183

Sample ID: STD6 Units: mg/l
Analyzed: 03/13/25 08:10 Sequence: 8 Standard ID: 25C13930

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10109.29	10117.29	10096.86	10113.72
YTTRIUM	360.073	Axial	284612.5	285488.4	283469.8	284879.4
YTTRIUM	360.073	Radial	11934.94	11854.18	11929.99	12020.63
INDIUM	230.606	Axial	2675.305	2672.847	2675.618	2677.451

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	3693.028	3672.181	3695.252	3711.652
ANTIMONY	206.833	Axial	393.6976	394.9950	393.1975	392.9005
ARSENIC	189.042	Axial	391.5409	393.4452	390.2357	390.9417
BARIUM	233.527	Axial	7581.499	7592.841	7574.898	7576.756
BERYLLIUM	313.042	Radial	23891.41	23767.14	23868.40	24038.69
BORON	249.678	Radial	1179.594	1173.141	1179.285	1186.356
CADMIUM	228.802	Axial	11919.26	11935.91	11904.02	11917.84
CALCIUM	373.690	Radial	87475.99	87128.87	87515.63	87783.47
CERIUM	535.353	Radial	2600.010	2574.530	2609.001	2616.500
CHROMIUM	267.716	Axial	35361.84	35316.01	35412.27	35357.24
COBALT	228.616	Axial	13305.42	13325.56	13291.45	13299.25
COPPER	324.754	Axial	93753.87	93475.56	94381.16	93404.89
IRON	271.441	Radial	1061.361	1063.190	1058.693	1062.202
LANTHANUM	333.749	Radial	7026.350	6985.485	7010.578	7082.987
LEAD	220.353	Axial	1038.942	1038.238	1039.941	1038.646
LITHIUM	670.784	Radial	29781.26	29536.00	29707.35	30100.43
MAGNESIUM	279.079	Radial	1929.326	1930.572	1930.840	1926.567
MANGANESE	257.610	Axial	251984.7	252547.3	252617.5	250789.1
MOLYBDENUM	202.030	Axial	711.0152	714.9627	708.9220	709.1608
NICKEL	231.604	Axial	5906.756	5913.199	5904.582	5902.486
PHOSPHORUS	177.495	Axial	384.9392	385.5891	382.2390	386.9895
POTASSIUM	766.490	Radial	64638.65	64253.34	64561.72	65100.89
SELENIUM	196.090	Axial	316.7591	314.9460	316.8592	318.4720
SILICON	251.611	Axial	29540.87	29202.25	29723.25	29697.10
SILVER	328.068	Axial	23116.62	23084.97	23203.02	23061.88
SODIUM	818.326	Radial	13233.54	13158.92	13205.32	13336.37
STRONTIUM	421.552	Radial	156636.2	155287.2	156597.6	158023.7
SULFUR	182.034	Axial	1148.693	1146.219	1147.879	1151.980
THALLIUM	190.856	Axial	386.0675	384.1198	386.0814	388.0014
TIN	189.989	Axial	469.1641	469.8048	467.8920	469.7955
TITANIUM	334.941	Radial	15539.23	15425.05	15546.89	15645.76
VANADIUM	292.402	Radial	2622.151	2605.317	2623.257	2637.879
ZINC	206.200	Axial	6571.521	6592.378	6558.362	6563.825

Sample ID: STD7 Units: mg/l
Analyzed: 03/13/25 08:13 Sequence: 9 Standard ID: 25C09297

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9513.116	9522.553	9525.577	9491.218
YTTRIUM	360.073	Axial	268171.9	268275.3	268603.6	267636.7
YTTRIUM	360.073	Radial	11729.01	11737.46	11732.21	11717.37
INDIUM	230.606	Axial	2382.521	2387.007	2383.504	2377.053

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	45724.52	45789.96	45768.21	45615.40
CALCIUM	373.690	Radial	208358.4	208738.1	208427.0	207910.0
IRON	271.441	Radial	4951.176	4962.944	4947.406	4943.177
MAGNESIUM	279.079	Radial	24728.92	24822.53	24727.76	24636.48
SODIUM	818.326	Radial	33119.78	33180.92	33121.21	33057.22
SULFUR	182.034	Axial	5584.423	5602.087	5597.602	5553.582

Sample ID: ICV-3 Units: mg/l
Analyzed: 03/13/25 08:17 Sequence: 10 Standard ID: 25C13928

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	10989.24	10995.02	10987.42	10974.18	11000.33
YTTRIUM	360.073	Axial	317210.2	320109.6	320543.4	312149.8	316037.8
YTTRIUM	360.073	Radial	12542.62	12567.12	12562.00	12577.50	12463.84
INDIUM	230.606	Axial	3146.238	3151.258	3152.497	3143.271	3137.927

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	991.5410	10.02576	10.01015	10.11065	9.971703
ANTIMONY	206.833	Axial	201.0364	0.9422874	0.9433977	0.9434093	0.9398905
ARSENIC	189.042	Axial	103.9000	0.9827878	0.9902519	0.9861177	0.9791314
BARIUM	233.527	Axial	4326.090	1.043796	1.049832	1.047035	1.042409
BERYLLIUM	313.042	Radial	31377.50	0.9986040	0.9991677	1.000816	0.9966350
BORON	249.678	Radial	311.9337	0.9990383	1.010930	0.9969094	0.9994291
CADMIUM	228.802	Axial	6288.823	0.9730315	0.9775301	0.9759136	0.9715614
CALCIUM	317.933	Radial	7502.436	9.996446	9.985602	10.03730	9.969158
CHROMIUM	267.716	Axial	10122.69	1.048729	1.045801	1.051385	1.050285
COBALT	228.616	Axial	3786.440	0.9704889	0.9761154	0.9734798	0.9688995
COPPER	324.754	Axial	26004.65	1.014782	1.019122	1.023490	1.013193
IRON	259.940	Radial	5387.093	10.24464	10.24716	10.26929	10.23319
LEAD	220.353	Axial	596.7395	0.9793258	0.9874254	0.9836084	0.9777071
LITHIUM	670.784	Radial	7853.144	1.010306	1.010738	1.015086	1.008551
MAGNESIUM	279.079	Radial	513.3335	9.706364	9.687770	9.753417	9.649946
MANGANESE	257.610	Axial	73266.05	1.061193	1.062378	1.064485	1.058640
MOLYBDENUM	202.030	Axial	800.3585	1.032953	1.035658	1.035512	1.031944
NICKEL	231.604	Axial	1696.047	0.9805668	0.9883751	0.9850129	0.9780434
PHOSPHORUS	177.495	Axial	99.62379	0.9525869	0.9619600	0.9527014	0.9520233
POTASSIUM	766.490	Radial	3296.698	9.952098	9.959041	9.962788	9.943404
SELENIUM	196.090	Axial	82.94725	0.9614637	0.9608456	0.9563595	0.9623281
SILICON	251.611	Axial	4087.110	1.019536	1.004364	1.020754	1.022875
SILVER	328.068	Axial	12426.53	0.9873888	0.9879975	0.9943715	0.9881428
SODIUM	589.592	Radial	12151.44	10.11624	10.13898	10.16121	10.10817
STRONTIUM	421.552	Radial	16890.04	0.4102434	0.4102854	0.4122381	0.4097232
SULFUR	182.034	Axial	611.9621	9.479901	9.215352	9.288588	9.514973
THALLIUM	190.856	Axial	116.8746	1.047649	1.043731	1.045963	1.067432
TIN	189.989	Axial	265.5623	1.036466	1.043403	1.045593	1.034184
TITANIUM	334.941	Radial	4135.045	1.013918	1.012411	1.018429	1.017175
VANADIUM	292.402	Radial	686.8962	0.9985534	1.000836	1.000982	0.9940145
ZINC	206.200	Axial	1822.210	1.011749	1.025509	1.018294	1.007076
CERIUM	535.353	Radial	361.2472	0.07216120	0.04736928	0.05375101	0.09887316
HOT WATER SOL. BORON	249.678	Radial	311.9337	0.9990383	1.010930	0.9969094	0.9994291
LANTHANUM	333.749	Radial	2.015678	-0.001005723	0.0007015495	0.003119721	-0.006825925

Sample ID: ICB-3 Units: mg/l
Analyzed: 03/13/25 08:34 Sequence: 11

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11148.01	11151.06	11141.83	11151.14
YTTRIUM	360.073	Axial	324264.0	325296.6	323570.9	323924.7
YTTRIUM	360.073	Radial	12577.56	12477.10	12596.69	12658.89
INDIUM	230.606	Axial	3324.517	3324.496	3323.509	3325.545

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	9.858787	-0.01629241	0.004169485	-0.03171673	-0.02132997
ANTIMONY	206.833	Axial	0.1254586	-0.001848629	-0.0007429968	-0.003171634	-0.001631256
ARSENIC	189.042	Axial	-0.5552896	0.0008989357	0.001288122	0.001236395	0.0001722897
BARIUM	233.527	Axial	-1.30123	-0.0002320136	-0.000007674538	-0.0003927160	-0.0002956503
BERYLLIUM	313.042	Radial	-8.21632	0.00004201911	0.00006161608	0.00003484420	0.00002959706
BORON	249.678	Radial	1.484964	-0.008037301	-0.003627169	-0.01003467	-0.01045006
CADMIUM	228.802	Axial	2.069158	0.00009738354	0.0002364460	0.0001590571	-0.0001033525
CALCIUM	317.933	Radial	84.44823	0.004115091	0.006079000	0.006938416	-0.0006721438
CERIUM	535.353	Radial	332.6115	-0.05153271	-0.02865017	-0.05859990	-0.06734805
CHROMIUM	267.716	Axial	3.796296	-0.00004709599	0.0006688691	-0.0005597591	-0.0002503979
COBALT	228.616	Axial	-4.71338	0.000001996109	0.0004705076	-0.0003486552	-0.0001158641
COPPER	324.754	Axial	219.4904	0.0003084417	0.0001801870	0.0001961940	0.0005489443
HOT WATER SOL. BORON	249.678	Radial	1.484964	-0.008037301	-0.003627169	-0.01003467	-0.01045006
IRON	259.940	Radial	42.13625	0.00009484786	0.0002527848	-0.0002615534	0.0002933122
LANTHANUM	333.749	Radial	4.691222	0.002578723	-0.001413487	0.001485610	0.007664046
LEAD	220.353	Axial	-0.9724588	0.0007511455	0.001130165	0.001433198	-0.0003099269
LITHIUM	670.784	Radial	-24.0678	-0.001407685	-0.001320615	-0.002225609	-0.0006768304
MAGNESIUM	279.079	Radial	1.424947	0.02365635	0.006825069	0.06110289	0.003041097
MANGANESE	257.610	Axial	17.44013	0.00002685001	0.00001423659	0.00003476485	0.00003154860
MOLYBDENUM	202.030	Axial	0.8730960	-0.000006463233	0.0005763161	0.0003248820	-0.0009205877
NICKEL	231.604	Axial	-5.24241	0.0001793407	-0.00006136082	0.0005379108	0.00006147207
PHOSPHORUS	177.495	Axial	0.1120106	-0.005054516	-0.0004240263	-0.009793748	-0.004945773
POTASSIUM	766.490	Radial	-65.3233	0.008853854	0.01707328	-0.005241034	0.01472932
SELENIUM	196.090	Axial	0.7510537	0.003421926	0.001811533	0.001297374	0.007156871
SILICON	251.611	Axial	20.96001	0.001086670	-0.001319978	0.002507685	0.002072305
SILVER	328.068	Axial	100.0647	-0.0005324745	-0.0009286115	0.0001832190	-0.0008520310
SODIUM	589.592	Radial	45.98149	-0.004443928	-0.01638085	-0.001167203	0.004216270
STRONTIUM	421.552	Radial	16.70991	0.000005098043	0.0001144036	-0.00006176238	-0.00003734709
SULFUR	182.034	Axial	1.905408	0.001397805	0.01111050	-0.002938094	-0.003978990
THALLIUM	190.856	Axial	0.6556015	-0.001422969	0.003009091	-0.004844925	-0.002433073
TIN	189.989	Axial	0.1752866	-0.0001734823	-0.001631779	0.001732291	-0.0006209591
TITANIUM	334.941	Radial	-1.02691	0.0004981974	-0.00002689611	0.00002100834	0.001500480
VANADIUM	292.402	Radial	-0.4714948	0.0003023682	0.001653105	0.001398616	-0.002144617
ZINC	206.200	Axial	6.531708	-0.0008991743	-0.001398594	-0.0001184480	-0.001180480

Sample ID: ICVLL-3 Units: mg/l
Analyzed: 03/13/25 08:42 Sequence: 14 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11181.14	11170.37	11172.99	11200.07
YTTRIUM	360.073	Axial	326211.3	328810.9	323826.1	325997.0
YTTRIUM	360.073	Radial	12550.50	12535.14	12520.86	12595.51
INDIUM	230.606	Axial	3315.293	3324.398	3306.822	3314.661

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	34.73676	0.2382022	0.2364133	0.2538717	0.2243216
ANTIMONY	206.833	Axial	2.363532	0.008486264	0.006341176	0.01025120	0.008866420
ARSENIC	189.042	Axial	0.5506296	0.01112877	0.009604026	0.008581982	0.01520030
BARIUM	233.527	Axial	22.62043	0.005441027	0.005250664	0.005356550	0.005715867
BERYLLIUM	313.042	Radial	55.07625	0.002053914	0.002075935	0.002084888	0.002000919
BORON	249.678	Radial	66.16317	0.2016307	0.1953846	0.2017458	0.2077617
CADMIUM	228.802	Axial	15.15737	0.002087075	0.002114039	0.001928939	0.002218246
CALCIUM	317.933	Radial	821.1415	0.9960711	0.9987965	1.005938	0.9834786
CHROMIUM	267.716	Axial	110.2222	0.01079324	0.01064244	0.01118636	0.01055093
COBALT	228.616	Axial	34.61411	0.009553317	0.009800472	0.009572223	0.009287256
COPPER	324.754	Axial	491.4240	0.01079713	0.01072930	0.01091173	0.01075035
IRON	259.940	Radial	98.05181	0.1073742	0.1087824	0.1079105	0.1054297
LEAD	220.353	Axial	2.261783	0.005777003	0.002765207	0.007911077	0.006654726
LITHIUM	670.784	Radial	98.22040	0.01428389	0.01514148	0.01398547	0.01372472
MAGNESIUM	279.079	Radial	53.85942	1.014870	1.025824	0.9977144	1.021073
MANGANESE	257.610	Axial	801.1579	0.01118510	0.01120657	0.01119375	0.01115497
MOLYBDENUM	202.030	Axial	4.997775	0.005227644	0.005393195	0.004846014	0.005443724
NICKEL	231.604	Axial	12.37967	0.009810832	0.009591485	0.01039770	0.009443308
PHOSPHORUS	177.495	Axial	10.55199	0.09368284	0.09620304	0.08756046	0.09728502
POTASSIUM	766.490	Radial	264.6821	0.9838818	0.9419863	1.027585	0.9820739
SELENIUM	196.090	Axial	1.245768	0.009063138	0.004704622	0.01349423	0.008990557
SILICON	251.611	Axial	763.5395	0.1838582	0.1822584	0.1844639	0.1848524
SILVER	328.068	Axial	175.3056	0.005369757	0.005613932	0.004819782	0.005675557
SODIUM	589.592	Radial	1278.697	1.025653	1.025827	1.030885	1.020247
STRONTIUM	421.552	Radial	452.1263	0.01058538	0.01074777	0.01056965	0.01043873
SULFUR	182.034	Axial	61.14702	0.9059231	0.9254447	0.8851732	0.9071515
THALLIUM	190.856	Axial	2.175230	0.01187856	0.01422385	0.01159145	0.009820380
TIN	189.989	Axial	13.81311	0.05218001	0.05018868	0.05395955	0.05239181
TITANIUM	334.941	Radial	207.0105	0.05144316	0.05111303	0.05191471	0.05130174
VANADIUM	292.402	Radial	10.57439	0.01631884	0.01751567	0.01255356	0.01888729
ZINC	206.200	Axial	98.05581	0.04925689	0.04920991	0.04981288	0.04874789
CERIUM	535.353	Radial	348.8755	0.01945699	0.04562642	0.01846127	-0.005716713
HOT WATER SOL. BORON	249.678	Radial	66.16317	0.2016307	0.1953846	0.2017458	0.2077617
LANTHANUM	333.749	Radial	2.192871	-0.0007623782	0.001679690	0.0006696083	-0.004636433

Sample ID: ICSA-3 Units: mg/l
Analyzed: 03/13/25 08:45 Sequence: 15 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9636.448	9628.086	9641.301	9639.958
YTTRIUM	360.073	Axial	274150.1	273063.2	274779.5	274607.5
YTTRIUM	360.073	Radial	11797.72	11842.25	11840.15	11710.76
INDIUM	230.606	Axial	2489.355	2492.486	2494.238	2481.343

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	46776.43	508.5792	508.8847	508.8674	507.9855
ANTIMONY	206.833	Axial	-0.4260286	-0.004712001	-0.003560192	-0.004893449	-0.005682363
ARSENIC	189.042	Axial	-1.10381	-0.005792129	-0.01402587	-0.006616164	0.003265651
BARIUM	233.527	Axial	7.355755	0.002101114	0.001681713	0.002128375	0.002493255
BERYLLIUM	313.042	Radial	-13.1786	-0.0001429453	-0.0002463687	-0.00009192596	-0.00009054129
BORON	249.678	Radial	-3.54104	-0.02507207	-0.02316674	-0.02688909	-0.02516037
CADMIUM	228.802	Axial	7.499974	0.001105337	0.001131414	0.001240206	0.0009443893
CALCIUM	373.690	Radial	212718.8	504.7244	504.4973	504.1338	505.5421
CERIUM	535.353	Radial	315.5948	-0.03537677	-0.05261518	-0.07329552	0.01978038
CHROMIUM	267.716	Axial	-21.5108	-0.002977348	-0.003128307	-0.003046045	-0.002757691
COBALT	228.616	Axial	0.2033915	0.001209249	0.001517745	0.001249858	0.0008601425
COPPER	324.754	Axial	-125.687	-0.01384132	-0.01364539	-0.01403966	-0.01383890
HOT WATER SOL. BORON	249.678	Radial	-3.54104	-0.02507207	-0.02316674	-0.02688909	-0.02516037
IRON	271.441	Radial	4987.189	199.7435	199.3164	199.5789	200.3352
LANTHANUM	333.749	Radial	-4.99935	-0.01093232	-0.01396169	-0.009597291	-0.009237973
LEAD	220.353	Axial	-5.39314	-0.008900102	-0.009012509	-0.01041232	-0.007275473
LITHIUM	670.784	Radial	-5.26750	0.0009581725	0.001743127	-0.0002679187	0.001399309
MAGNESIUM	279.079	Radial	25207.47	506.8968	506.2758	505.5816	508.8329
MANGANESE	257.610	Axial	112.1682	0.001630883	0.001576570	0.001651946	0.001664132
MOLYBDENUM	202.030	Axial	0.6886258	-0.0001039387	0.00001737262	0.001192259	-0.001521447
NICKEL	231.604	Axial	-17.1071	-0.009421016	-0.01025318	-0.009830222	-0.008179647
PHOSPHORUS	177.495	Axial	1.326423	0.008440357	0.006558925	-0.002844411	0.02160656
POTASSIUM	766.490	Radial	-71.7665	-0.02413408	-0.05615029	0.001800898	-0.01805284
SELENIUM	196.090	Axial	0.3917994	-0.000002577646	-0.009754002	-0.0003425868	0.01008886
SILICON	251.611	Axial	-82.8175	-0.02774185	-0.02740061	-0.02785833	-0.02796661
SILVER	328.068	Axial	80.82027	-0.001051698	-0.001705897	-0.001380621	-0.00006857471
SODIUM	589.592	Radial	74.47309	0.02347080	0.01409121	0.03176479	0.02455642
STRONTIUM	421.552	Radial	255.3097	0.006198191	0.006156709	0.006406421	0.006031442
SULFUR	182.034	Axial	-8.52515	-0.1788250	-0.1721917	-0.1758299	-0.1884535
THALLIUM	190.856	Axial	-0.4214962	-0.01159576	-0.006937048	-0.01331638	-0.01453384
TIN	189.989	Axial	-1.51840	-0.007612868	-0.008278642	-0.007192522	-0.007367439
TITANIUM	334.941	Radial	-55.9633	-0.01382504	-0.01546715	-0.01230987	-0.01369811
VANADIUM	292.402	Radial	-4.53963	-0.006042197	-0.002109109	-0.007317879	-0.008699605
ZINC	206.200	Axial	12.23115	0.003288463	0.002885818	0.003341095	0.003638476

Sample ID: ICSAB-3 Units: mg/l
Analyzed: 03/13/25 08:48 Sequence: 16 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9645.490	9642.854	9616.382	9677.234
YTTRIUM	360.073	Axial	275325.5	275592.6	274714.3	275669.6
YTTRIUM	360.073	Radial	11887.19	11920.25	11878.18	11863.14
INDIUM	230.606	Axial	2486.230	2492.669	2472.301	2493.721

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	47874.37	516.6040	515.8881	517.1388	516.7849
ANTIMONY	206.833	Axial	93.54599	0.4984244	0.5050786	0.5030232	0.4871714
ARSENIC	189.042	Axial	46.47029	0.5037884	0.5102202	0.5122836	0.4888612
BARIUM	233.527	Axial	1867.736	0.5134670	0.5136655	0.5137894	0.5129462
BERYLLIUM	313.042	Radial	15033.83	0.5049913	0.5039231	0.5057014	0.5053496
BORON	249.678	Radial	292.0139	0.9866664	0.9859119	0.9994736	0.9746137
CADMIUM	228.802	Axial	5909.864	1.041803	1.043678	1.041846	1.039885
CALCIUM	373.690	Radial	217906.2	513.1400	512.4741	513.2219	513.7241
CERIUM	535.353	Radial	309.4557	-0.07318607	-0.1355298	-0.04615905	-0.03786932
CHROMIUM	267.716	Axial	4201.882	0.4957426	0.4958362	0.4971818	0.4942098
COBALT	228.616	Axial	1541.508	0.5005466	0.4999646	0.5020059	0.4996693
COPPER	324.754	Axial	11956.74	0.5276830	0.5280450	0.5267563	0.5282477
HOT WATER SOL. BORON	249.678	Radial	292.0139	0.9866664	0.9859119	0.9994736	0.9746137
IRON	271.441	Radial	5118.669	203.4645	203.1062	202.8730	204.4144
LANTHANUM	333.749	Radial	-6.03525	-0.01236836	-0.01026838	-0.01302583	-0.01381089
LEAD	220.353	Axial	466.8922	0.9696765	0.9665827	0.9713316	0.9711151
LITHIUM	670.784	Radial	-12.8290	-0.00006475300	0.001152824	0.0001511469	-0.001498229
MAGNESIUM	279.079	Radial	25898.64	516.8698	516.0229	516.7407	517.8458
MANGANESE	257.610	Axial	30776.48	0.5077575	0.5081601	0.5082801	0.5068324
MOLYBDENUM	202.030	Axial	339.5223	0.4986634	0.4987567	0.5004125	0.4968209
NICKEL	231.604	Axial	1331.772	0.9744007	0.9728865	0.9775892	0.9727262
PHOSPHORUS	177.495	Axial	1.413355	0.009401956	0.003100627	0.02336606	0.001739176
POTASSIUM	766.490	Radial	-47.2679	0.05399752	0.04407815	0.08513245	0.03278195
SELENIUM	196.090	Axial	40.51488	0.5327401	0.5410360	0.5305675	0.5266169
SILICON	251.611	Axial	3401.790	0.9665964	0.9633991	0.9721779	0.9642122
SILVER	328.068	Axial	10149.32	0.9181975	0.9048964	0.9216008	0.9280954
SODIUM	589.592	Radial	146.6575	0.08665133	0.08003801	0.09578508	0.08413088
STRONTIUM	421.552	Radial	261.2584	0.006301611	0.006412411	0.006167007	0.006325416
SULFUR	182.034	Axial	-8.86917	-0.1847989	-0.1857438	-0.1953638	-0.1732891
THALLIUM	190.856	Axial	44.49287	0.4554221	0.4497553	0.4554639	0.4610473
TIN	189.989	Axial	107.1990	0.4762115	0.4764723	0.4742238	0.4779384
TITANIUM	334.941	Radial	1887.671	0.4887735	0.4903566	0.4891143	0.4868495
VANADIUM	292.402	Radial	310.9814	0.4775126	0.4789674	0.4786815	0.4748890
ZINC	206.200	Axial	1534.468	0.9705040	0.9711646	0.9740568	0.9662906

Sample ID: ICSA-2 Units: mg/l
Analyzed: 03/14/25 01:08 Sequence: 292 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9418.475	9416.565	9417.900	9420.961
YTTRIUM	360.073	Axial	268359.4	268871.6	267866.1	268340.4
YTTRIUM	360.073	Radial	11610.31	11576.96	11645.81	11608.14
INDIUM	230.606	Axial	2476.577	2474.073	2477.927	2477.732

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	45499.16	502.6759	501.8684	504.2269	501.9324
ANTIMONY	206.833	Axial	-0.4676077	-0.004993772	-0.01049804	-0.001487000	-0.002996277
ARSENIC	189.042	Axial	-0.6369671	-0.0009426708	-0.001373440	-0.006642009	0.005187437
BARIUM	233.527	Axial	8.138944	0.002368554	0.002290710	0.002150903	0.002664050
BERYLLIUM	313.042	Radial	-12.0506	-0.0001115341	-0.0001170784	-0.0001480972	-0.00006942673
BORON	249.678	Radial	-3.47990	-0.02507488	-0.03009332	-0.01038680	-0.03474453
CADMIUM	228.802	Axial	8.376230	0.001294137	0.0009877468	0.001250234	0.001644429
CALCIUM	373.690	Radial	211235.5	509.2917	508.5200	509.8315	509.5237
CERIUM	535.353	Radial	305.9748	-0.05639532	-0.02835948	-0.05213971	-0.08868675
CHROMIUM	267.716	Axial	-25.2290	-0.003485695	-0.003545767	-0.002762862	-0.004148456
COBALT	228.616	Axial	0.9897482	0.001466193	0.002120106	0.001268826	0.001009646
COPPER	324.754	Axial	-130.464	-0.01419124	-0.01441029	-0.01436978	-0.01379366
HOT WATER SOL. BORON	249.678	Radial	-3.47990	-0.02507488	-0.03009332	-0.01038680	-0.03474453
IRON	271.441	Radial	4781.193	194.5824	194.3869	194.7629	194.5975
LANTHANUM	333.749	Radial	-5.99248	-0.01250158	-0.007763730	-0.01491330	-0.01482770
LEAD	220.353	Axial	-3.51935	-0.005064674	-0.008761676	-0.001995648	-0.004436698
LITHIUM	670.784	Radial	18.08493	0.004186245	0.005095262	0.003941409	0.003522064
MAGNESIUM	279.079	Radial	24442.93	499.4492	498.4284	499.2416	500.6775
MANGANESE	257.610	Axial	122.2481	0.001844179	0.001869323	0.001839002	0.001824214
MOLYBDENUM	202.030	Axial	2.513303	0.002670129	0.001405332	0.003618585	0.002986472
NICKEL	231.604	Axial	-17.3231	-0.009645714	-0.01021822	-0.009485406	-0.009233515
PHOSPHORUS	177.495	Axial	0.8420326	0.003338150	-0.001266738	0.004950396	0.006330791
POTASSIUM	766.490	Radial	-55.5965	0.02395000	0.06426195	-0.02098665	0.02857469
SELENIUM	196.090	Axial	0.6506565	0.003641426	-0.004360473	0.01203644	0.003248307
SILICON	251.611	Axial	-49.7270	-0.01862005	-0.02035979	-0.01946155	-0.01603883
SILVER	328.068	Axial	86.36964	-0.0003615901	-0.0002513788	-0.00009553657	-0.0007378548
SODIUM	589.592	Radial	112.2664	0.05867292	0.06447212	0.05963061	0.05191603
STRONTIUM	421.552	Radial	249.5456	0.006154095	0.006240966	0.006070999	0.006150320
SULFUR	182.034	Axial	-8.34341	-0.1790241	-0.1409899	-0.1912366	-0.2048459
THALLIUM	190.856	Axial	-1.04538	-0.01835670	-0.01977058	-0.02242948	-0.01287004
TIN	189.989	Axial	-0.7534940	-0.004283265	-0.004613476	-0.006072123	-0.002164195
TITANIUM	334.941	Radial	-59.7996	-0.01507298	-0.01332366	-0.01677877	-0.01511652
VANADIUM	292.402	Radial	-5.03273	-0.006921306	-0.007776192	-0.005530876	-0.007456849
ZINC	206.200	Axial	26.49454	0.01274990	0.01253657	0.01295410	0.01275903

Sample ID: ICSAB-2 Units: mg/l
Analyzed: 03/14/25 01:11 Sequence: 293 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9476.591	9472.695	9481.232	9475.846
YTTRIUM	360.073	Axial	267074.3	267220.6	267443.3	266559.1
YTTRIUM	360.073	Radial	11650.91	11652.82	11667.51	11632.39
INDIUM	230.606	Axial	2481.173	2476.608	2485.290	2481.622

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	46438.86	511.2752	511.0572	510.2851	512.4833
ANTIMONY	206.833	Axial	91.65238	0.4970144	0.4966405	0.4959066	0.4984960
ARSENIC	189.042	Axial	46.41135	0.5119861	0.4988737	0.5300627	0.5070218
BARIUM	233.527	Axial	1830.465	0.5121889	0.5130267	0.5121879	0.5113520
BERYLLIUM	313.042	Radial	14453.66	0.4953547	0.4962302	0.4937388	0.4960949
BORON	249.678	Radial	278.8996	0.9611313	0.9637713	0.9701478	0.9494747
CADMIUM	228.802	Axial	5794.391	1.039649	1.041637	1.040522	1.036788
CALCIUM	373.690	Radial	215618.7	518.0503	519.1376	517.1185	517.8950
CERIUM	535.353	Radial	308.0904	-0.05168461	-0.01450723	-0.09166780	-0.04887881
CHROMIUM	267.716	Axial	4154.244	0.4988567	0.4968478	0.4999551	0.4997671
COBALT	228.616	Axial	1504.225	0.4894589	0.4914140	0.4888029	0.4881597
COPPER	324.754	Axial	11810.41	0.5305597	0.5286905	0.5321552	0.5308333
HOT WATER SOL. BORON	249.678	Radial	278.8996	0.9611313	0.9637713	0.9701478	0.9494747
IRON	271.441	Radial	4887.711	198.2241	198.7429	197.8444	198.0850
LANTHANUM	333.749	Radial	-5.03976	-0.01109071	-0.01491402	-0.006526237	-0.01183188
LEAD	220.353	Axial	463.3803	0.9643535	0.9664949	0.9649461	0.9616195
LITHIUM	670.784	Radial	8.281404	0.002820858	0.005623739	0.001246048	0.001592788
MAGNESIUM	279.079	Radial	25061.90	510.3132	510.7280	509.6052	510.6063
MANGANESE	257.610	Axial	29773.73	0.4999635	0.4989524	0.5005639	0.5003740
MOLYBDENUM	202.030	Axial	330.2873	0.4937309	0.4959942	0.4940943	0.4911044
NICKEL	231.604	Axial	1317.500	0.9659412	0.9666526	0.9658228	0.9653481
PHOSPHORUS	177.495	Axial	2.182474	0.01823898	0.02492997	0.02256527	0.007221700
POTASSIUM	766.490	Radial	-45.5506	0.05644579	0.07438482	0.07129828	0.02365428
SELENIUM	196.090	Axial	37.88138	0.5067291	0.4979984	0.5198232	0.5023658
SILICON	251.611	Axial	3392.729	0.9812571	0.9817193	0.9817302	0.9803218
SILVER	328.068	Axial	10143.92	0.9342268	0.9663321	0.9169925	0.9193558
SODIUM	589.592	Radial	102.5538	0.04957443	0.04576869	0.05108211	0.05187250
STRONTIUM	421.552	Radial	254.6024	0.006263637	0.006391158	0.005992623	0.006407132
SULFUR	182.034	Axial	-8.54551	-0.1817411	-0.1715655	-0.1824763	-0.1911813
THALLIUM	190.856	Axial	44.08301	0.4653276	0.4672501	0.4589305	0.4698021
TIN	189.989	Axial	104.0396	0.4704069	0.4726748	0.4732937	0.4652522
TITANIUM	334.941	Radial	1824.019	0.4818879	0.4805845	0.4780688	0.4870105
VANADIUM	292.402	Radial	299.9216	0.4698878	0.4692475	0.4708099	0.4696060
ZINC	206.200	Axial	1472.609	0.9478684	0.9534271	0.9463786	0.9437994

Sample ID: CCV Units: mg/l
Analyzed: 03/14/25 01:58 Sequence: 306 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10497.52	10493.09	10493.84	10505.63
YTTRIUM	360.073	Axial	301278.4	301394.2	298494.7	303946.3
YTTRIUM	360.073	Radial	12141.89	12227.16	12073.78	12124.73
INDIUM	230.606	Axial	2983.841	2979.802	2982.129	2989.591

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	922.7078	9.633287	9.594208	9.635996	9.669658
ANTIMONY	206.833	Axial	100.3662	0.4913058	0.4931263	0.4852874	0.4955037
ARSENIC	189.042	Axial	100.3657	0.9937566	0.9980267	0.9862011	0.9970419
BARIUM	233.527	Axial	2027.562	0.5121634	0.5120563	0.5132953	0.5111388
BERYLLIUM	313.042	Radial	6063.999	0.1996039	0.1988228	0.1997588	0.2002301
BORON	249.678	Radial	288.6988	0.9545698	0.9644630	0.9568333	0.9424131
CADMIUM	228.802	Axial	3043.711	0.4928861	0.4924192	0.4933470	0.4928920
CALCIUM	373.690	Radial	22459.62	51.73262	51.62001	51.86266	51.71517
CHROMIUM	267.716	Axial	9475.744	1.027679	1.026779	1.029776	1.026483
COBALT	228.616	Axial	3595.806	0.9717979	0.9726644	0.9730784	0.9696509
COPPER	324.754	Axial	24533.51	1.002115	1.002472	1.004121	0.9997527
IRON	259.940	Radial	4964.534	9.748839	9.746564	9.760411	9.739543
LEAD	220.353	Axial	278.9511	0.4838601	0.4846927	0.4812137	0.4856740
LITHIUM	670.784	Radial	7541.658	1.002279	1.001111	1.002749	1.002977
MAGNESIUM	279.079	Radial	482.0085	9.414699	9.425739	9.447512	9.370846
MANGANESE	257.610	Axial	67219.23	1.019207	1.017902	1.020107	1.019612
MOLYBDENUM	202.030	Axial	188.1889	0.2534123	0.2536020	0.2533824	0.2532526
NICKEL	231.604	Axial	1587.859	0.9680349	0.9693280	0.9684454	0.9663313
PHOSPHORUS	177.495	Axial	96.76224	0.9686676	0.9725951	0.9704192	0.9629886
POTASSIUM	766.490	Radial	15998.27	49.08097	49.12715	49.10263	49.01313
SELENIUM	196.090	Axial	81.69349	0.9914551	1.001361	0.9979043	0.9751005
SILICON	251.611	Axial	7582.207	1.983836	1.970504	1.991398	1.989606
SILVER	328.068	Axial	6262.007	0.5168860	0.5158304	0.5171924	0.5176353
SODIUM	818.326	Radial	3328.445	50.23491	50.06323	50.17697	50.46452
STRONTIUM	421.552	Radial	40215.81	1.009636	1.009121	1.009887	1.009900
SULFUR	182.034	Axial	290.5800	4.698271	4.650253	4.718479	4.726080
THALLIUM	190.856	Axial	108.3071	1.021992	1.020482	1.031640	1.013855
TIN	189.989	Axial	125.2240	0.5111997	0.5120445	0.5093017	0.5122529
TITANIUM	334.941	Radial	3912.790	0.9911185	0.9894570	0.9902691	0.9936293
VANADIUM	292.402	Radial	647.2289	0.9719545	0.9765751	0.9726897	0.9665987
ZINC	206.200	Axial	1741.607	1.012293	1.011615	1.014619	1.010644
CERIUM	535.353	Radial	336.4133	0.01464347	0.02284206	0.03107835	-0.009990019
HOT WATER SOL. BORON	249.678	Radial	288.6988	0.9545698	0.9644630	0.9568333	0.9424131
LANTHANUM	333.749	Radial	2.358986	-0.0004485914	0.002449489	-0.003093157	-0.0007021056

Sample ID: CCB Units: mg/l
Analyzed: 03/14/25 02:01 Sequence: 307

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10921.28	10934.58	10914.24	10915.04
YTTRIUM	360.073	Axial	319736.6	321944.1	316567.2	320698.6
YTTRIUM	360.073	Radial	12303.24	12292.34	12375.00	12242.38
INDIUM	230.606	Axial	3308.232	3312.176	3305.010	3307.511

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2
ALUMINUM	308.215	Radial	12.59986	0.01439323	-0.009083250	0.04220792
ANTIMONY	206.833	Axial	0.1915990	-0.001524866	0.0007824963	-0.002942978
ARSENIC	189.042	Axial	-0.2769094	0.003426882	0.0007135715	0.002195531
BARIUM	233.527	Axial	3.478004	0.0009223771	0.00000001915385	0.0009549066
BERYLLIUM	313.042	Radial	-9.08013	0.000008117848	0.00007826651	-0.00002145526
BORON	249.678	Radial	3.606220	-0.0009124910	0.001610366	-0.007533941
CADMIUM	228.802	Axial	6.948753	0.0008641249	0.0002749121	0.0007228786
CALCIUM	317.933	Radial	73.54385	-0.008346090	-0.01076368	-0.006790193
CERIUM	535.353	Radial	331.0228	-0.02740682	-0.03055252	-0.03758476
CHROMIUM	267.716	Axial	8.833333	0.0004863760	0.0005547296	0.0008696437
COBALT	228.616	Axial	3.322315	0.001953012	0.001146375	0.001065426
COPPER	324.754	Axial	228.1808	0.0008291956	0.0007706510	0.0006835950
HOT WATER SOL. BORON	249.678	Radial	3.606220	-0.0009124910	0.001610366	-0.007533941
IRON	259.940	Radial	41.80140	0.001247320	-0.00008127432	-0.001381649
LANTHANUM	333.749	Radial	7.833900	0.007086215	0.006908650	0.005841790
LEAD	220.353	Axial	-0.5459868	0.001407639	0.001050193	0.0007123811
LITHIUM	670.784	Radial	-9.13232	0.0004790042	0.0002762285	0.0008642424
MAGNESIUM	279.079	Radial	1.932739	0.03411772	0.05732747	0.01112863
MANGANESE	257.610	Axial	27.11564	0.0001730764	0.0001469599	0.0001693929
MOLYBDENUM	202.030	Axial	2.093706	0.001603479	0.001426065	0.001344224
NICKEL	231.604	Axial	-2.31825	0.001768792	0.0002087855	0.001736621
PHOSPHORUS	177.495	Axial	0.4189945	-0.002058146	-0.002563675	0.003999100
POTASSIUM	766.490	Radial	-52.0402	0.04452216	0.05534399	0.06025082
SELENIUM	196.090	Axial	0.1776675	-0.003119043	-0.008323906	-0.0009115617
SILICON	251.611	Axial	26.76882	0.002657777	0.002351360	0.003024410
SILVER	328.068	Axial	97.45412	-0.0005790718	-0.0005890548	-0.0004383511
SODIUM	589.592	Radial	66.81499	0.01424023	0.01111284	0.009634642
STRONTIUM	421.552	Radial	16.39171	0.000005475417	-0.0001326161	0.0001555631
SULFUR	182.034	Axial	2.352765	0.009001627	0.003393607	0.003625212
THALLIUM	190.856	Axial	0.4237871	-0.003395667	-0.006615026	-0.001253861
TIN	189.989	Axial	0.2848872	0.0002712286	-0.0004860653	0.0002708050
TITANIUM	334.941	Radial	1.303827	0.001079078	0.0009606018	0.0008555643
VANADIUM	292.402	Radial	-1.29900	-0.0009409844	-0.0001967520	-0.002712600
ZINC	206.200	Axial	5.335504	-0.001495137	-0.003159779	-0.002165129

Sample ID: BLANK DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 02:25 Sequence: 308

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11217.25	11217.55	11220.06	11214.16
YTTRIUM	360.073	Axial	324226.0	324152.4	324741.2	323784.6
YTTRIUM	360.073	Radial	12648.29	12689.26	12619.59	12636.03
INDIUM	230.606	Axial	3355.099	3352.612	3361.991	3350.694

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.1817145	0.004370866	0.005495145	0.005192272	0.002425182
BARIUM	233.527	Axial	-0.2711507	0.00001342863	0.0001291143	-0.0001623244	0.00007349600
BORON	249.678	Radial	3.053261	-0.003047865	0.002092220	-0.01138233	0.0001465167
CADMIUM	228.802	Axial	1.268074	-0.00002604639	-0.0002353336	0.0001472683	0.000009926212
CALCIUM	317.933	Radial	79.27607	-0.003441859	-0.003463055	-0.003009468	-0.003853054
CHROMIUM	267.716	Axial	6.851852	0.0002609658	-0.0001781587	0.0001686184	0.0007924376
COBALT	228.616	Axial	-3.67045	0.0002627563	0.00009311865	0.0003344598	0.0003606905
LEAD	220.353	Axial	-1.13243	0.0005195620	0.0003767174	0.0001098622	0.001072106
LITHIUM	670.784	Radial	1.401257	0.001855950	0.0009006881	0.002488055	0.002179108
MAGNESIUM	279.079	Radial	1.027039	0.01605793	0.01495984	0.003060542	0.03015341
SELENIUM	196.090	Axial	0.003749495	-0.005163245	-0.003937022	-0.003431731	-0.008120982
SILVER	328.068	Axial	108.3137	0.00006620802	-0.0004611411	-0.000005238135	0.0006650033
ZINC	206.200	Axial	2.764160	-0.002980019	-0.002859976	-0.002880941	-0.003199142
ALUMINUM	308.215	Radial	11.58607	0.0005604032	0.02183755	-0.006180929	-0.01397541
ANTIMONY	206.833	Axial	0.3991894	-0.0005918345	-0.002918642	0.001668836	-0.0005256974
BERYLLIUM	313.042	Radial	-10.8811	-0.00004077104	-0.000001126260	-0.0001239903	0.000002803454
COPPER	324.754	Axial	224.8533	0.0004626604	0.0003358134	0.0002613886	0.0007907791
IRON	259.940	Radial	40.85941	-0.002779692	-0.004093474	-0.0005656989	-0.003679902
MANGANESE	257.610	Axial	19.68695	0.00005719739	0.00006600496	0.00006010360	0.00004548360
MOLYBDENUM	202.030	Axial	0.7427972	-0.0001781619	-0.001024835	-0.0007438049	0.001234154
NICKEL	231.604	Axial	-3.86104	0.0009520550	0.0009063229	0.0008826407	0.001067201
PHOSPHORUS	177.495	Axial	0.1122614	-0.005057620	-0.01018742	-0.0008712555	-0.004114184
POTASSIUM	766.490	Radial	-53.2952	0.04515479	0.06835462	0.03185529	0.03525447
SILICON	251.611	Axial	27.32799	0.002616796	0.001394785	0.003287189	0.003168415
SODIUM	589.592	Radial	62.26088	0.008899237	0.004336964	0.01474233	0.007618421
STRONTIUM	421.552	Radial	8.817517	-0.0001879971	-0.0001069772	-0.0002233674	-0.0002336467
SULFUR	182.034	Axial	1.669443	-0.002373054	0.008894667	-0.006828923	-0.009184905
THALLIUM	190.856	Axial	1.019730	0.001801368	0.004650631	-0.0003917179	0.001145189
TIN	189.989	Axial	-0.1616386	-0.001467702	0.0002417388	-0.001217144	-0.003427701
TITANIUM	334.941	Radial	1.471292	0.001110798	0.0005306093	0.001259444	0.001542342
VANADIUM	292.402	Radial	-1.09751	-0.0006095545	0.002928905	-0.002662831	-0.002094737
CERIUM	535.353	Radial	357.4364	0.04369478	0.03079366	0.04724869	0.05304198
LANTHANUM	333.749	Radial	2.609348	-0.0002286165	-0.003180598	-0.0006544140	0.003149162

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 02:28 Sequence: 309

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10936.26	10939.62	10939.20	10929.97
YTTRIUM	360.073	Axial	313712.7	315884.7	312574.7	312678.8
YTTRIUM	360.073	Radial	12525.17	12565.21	12471.99	12538.31
INDIUM	230.606	Axial	3174.222	3180.707	3173.890	3168.068

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	109.4651	1.040090	1.038034	1.039843	1.042392
BARIUM	233.527	Axial	4498.737	1.090705	1.092704	1.090839	1.088574
BORON	249.678	Radial	308.5278	0.9894230	0.9875326	0.9991807	0.9815556
CADMIUM	228.802	Axial	6655.434	1.034757	1.034862	1.032846	1.036563
CALCIUM	317.933	Radial	7638.159	10.19370	10.17912	10.25141	10.15057
CHROMIUM	267.716	Axial	10490.01	1.092066	1.091509	1.094444	1.090244
COBALT	228.616	Axial	3967.010	1.007773	1.007507	1.006461	1.009350
LEAD	220.353	Axial	629.1661	1.023351	1.023280	1.023773	1.022999
LITHIUM	670.784	Radial	8226.732	1.059776	1.056651	1.063703	1.058974
MAGNESIUM	279.079	Radial	519.6341	9.839171	9.869209	9.862827	9.785478
SELENIUM	196.090	Axial	90.31346	1.052406	1.052559	1.062407	1.042253
SILVER	328.068	Axial	2679.296	0.2073135	0.2069299	0.2066759	0.2083348
ZINC	206.200	Axial	1911.254	1.066570	1.065870	1.070435	1.063406
ALUMINUM	308.215	Radial	1011.012	10.23951	10.22066	10.32157	10.17631
ANTIMONY	206.833	Axial	213.6652	1.006497	1.009281	1.007131	1.003078
BERYLLIUM	313.042	Radial	32591.59	1.038686	1.038672	1.043829	1.033556
COPPER	324.754	Axial	27150.82	1.065044	1.063470	1.060588	1.071075
IRON	259.940	Radial	5403.364	10.29036	10.27974	10.33366	10.25769
MANGANESE	257.610	Axial	75509.71	1.098996	1.101004	1.098911	1.097074
MOLYBDENUM	202.030	Axial	820.2225	1.063750	1.066927	1.061294	1.063028
NICKEL	231.604	Axial	1774.578	1.016823	1.018252	1.017412	1.014804
PHOSPHORUS	177.495	Axial	105.0825	1.010018	1.011610	0.9979489	1.020494
POTASSIUM	766.490	Radial	3402.643	10.27954	10.24357	10.29643	10.29861
SILICON	251.611	Axial	3886.257	0.9739472	0.9729665	0.9706597	0.9782155
SODIUM	589.592	Radial	12948.71	10.79804	10.79980	10.83283	10.76151
STRONTIUM	421.552	Radial	44200.34	1.075743	1.073969	1.078468	1.074791
SULFUR	182.034	Axial	636.5019	9.909140	9.925103	9.865958	9.936361
THALLIUM	190.856	Axial	125.1704	1.135056	1.127992	1.138696	1.138480
TIN	189.989	Axial	277.5853	1.088679	1.092329	1.084057	1.089650
TITANIUM	334.941	Radial	4244.308	1.042155	1.045765	1.046008	1.034693
VANADIUM	292.402	Radial	693.6097	1.009715	1.010497	1.015718	1.002931
CERIUM	535.353	Radial	345.7917	0.009358309	0.01748608	-0.03333701	0.04392585
LANTHANUM	333.749	Radial	4.820711	0.002806100	0.001938770	0.004811115	0.001668414

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835084-01 DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 02:31 Sequence: 310

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10166.90	10167.44	10160.37	10172.90
YTTRIUM	360.073	Axial	288546.4	288088.0	288222.5	289328.7
YTTRIUM	360.073	Radial	12129.71	12133.59	12095.27	12160.27
INDIUM	230.606	Axial	2755.417	2753.383	2758.156	2754.713

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.03559824	0.006405951	0.005461511	0.005772620	0.007983723
BARIUM	233.527	Axial	342.2922	0.08933855	0.08819990	0.08914292	0.09067284
BORON	249.678	Radial	126.4070	0.4111747	0.4147560	0.4144195	0.4043486
CADMIUM	228.802	Axial	12.68259	0.001902781	0.0009467764	0.001302287	0.003459281
CALCIUM	373.690	Radial	32875.23	75.82355	75.84802	75.84130	75.78135
CHROMIUM	267.716	Axial	26.87304	0.002575641	0.002470490	0.002449352	0.002807081
COBALT	228.616	Axial	7.680505	0.003389253	0.002430022	0.002696791	0.005040947
LEAD	220.353	Axial	0.04878417	0.002349037	-0.00007457523	0.001464016	0.005657670
LITHIUM	670.784	Radial	67.84463	0.01068493	0.008993115	0.01062587	0.01243579
MAGNESIUM	279.079	Radial	613.8806	12.00328	12.04862	11.94338	12.01785
SELENIUM	196.090	Axial	0.09440427	-0.004015044	-0.007188764	0.0007867633	-0.005643131
SILVER	328.068	Axial	100.5888	0.0002757449	0.0003930391	0.0007602466	-0.0003260510
ZINC	206.200	Axial	17.66114	0.006155538	0.005318310	0.005413657	0.007734646
ALUMINUM	308.215	Radial	30.66574	0.2074724	0.1962213	0.2346940	0.1915018
ANTIMONY	206.833	Axial	0.4978324	0.00009874647	0.002888441	-0.002287939	-0.0003042620
BERYLLIUM	313.042	Radial	-10.0103	-0.00002669854	0.00001791933	-0.00003871113	-0.00005930381
COPPER	324.754	Axial	246.2203	0.002266432	0.002530781	0.002250141	0.002018374
IRON	259.940	Radial	179.4548	0.2752200	0.2760156	0.2763855	0.2732590
MANGANESE	257.610	Axial	13117.37	0.2051816	0.2060947	0.2047209	0.2047293
MOLYBDENUM	202.030	Axial	3.103997	0.003215826	0.001350655	0.003049283	0.005247542
NICKEL	231.604	Axial	11.41839	0.01055310	0.009206502	0.01075209	0.01170072
PHOSPHORUS	177.495	Axial	5.338583	0.04941485	0.05461243	0.04935949	0.04427265
POTASSIUM	766.490	Radial	38113.97	116.7679	116.6589	116.6661	116.9786
SILICON	251.611	Axial	7186.593	1.941387	1.952806	1.935694	1.935662
SODIUM	818.326	Radial	22408.79	328.6230	328.3551	328.0895	329.4244
STRONTIUM	421.552	Radial	14793.66	0.3715190	0.3714985	0.3706370	0.3724214
SULFUR	182.034	Axial	357.4062	5.974186	5.999802	5.946125	5.976631
THALLIUM	190.856	Axial	0.2768915	-0.004458643	-0.008549352	-0.001686533	-0.003140044
TIN	189.989	Axial	0.3968091	0.0008257605	-0.0009738822	0.00005778903	0.003393375
TITANIUM	334.941	Radial	-5.24392	-0.0005744429	-0.001482285	0.0007735465	-0.001014591
VANADIUM	292.402	Radial	-1.10703	-0.0006820014	-0.002643005	0.002121746	-0.001524745
CERIUM	535.353	Radial	337.1069	0.01921465	0.02344270	0.07771512	-0.04351387
LANTHANUM	333.749	Radial	4.517406	0.002599692	-0.0005325034	0.009161894	-0.0008303141

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1835084-01 Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 02:34 Sequence: 311

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10630.39	10626.47	10612.87	10651.82
YTTRIUM	360.073	Axial	303847.6	304491.8	303094.2	303956.8
YTTRIUM	360.073	Radial	12251.95	12273.05	12279.32	12203.48
INDIUM	230.606	Axial	3047.077	3040.713	3046.353	3054.164

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.3958944	0.002191070	0.01427160	-0.01671821	0.03531267
BARIUM	233.527	Axial	73.23876	0.01834374	0.09134945	0.09232041	0.09148621
BORON	249.678	Radial	28.88618	0.08307840	0.4141332	0.3993734	0.4326694
CADMIUM	228.802	Axial	1.737825	0.00005995740	0.0002033821	0.001298556	-0.0006025775
CALCIUM	317.933	Radial	10635.60	14.55670	72.88358	72.65054	72.81642
CHROMIUM	267.716	Axial	6.370370	0.0002482006	0.001205155	0.003206831	-0.0006889764
COBALT	228.616	Axial	-3.26496	0.0002802392	-0.001119260	0.001780279	0.003542569
LEAD	220.353	Axial	-1.12872	0.0003479238	0.0001742349	-0.005207375	0.01025200
LITHIUM	670.784	Radial	14.35242	0.003566532	0.02225376	0.005184963	0.02605926
MAGNESIUM	279.079	Radial	127.5320	2.466236	12.34622	12.32662	12.32071
SELENIUM	196.090	Axial	0.5550002	0.001478129	-0.009967911	0.008137689	0.02400216
SILVER	328.068	Axial	104.3145	0.0002034824	-0.001879147	-0.0004040746	0.005335457
ZINC	206.200	Axial	7.441469	-0.0002004132	-0.004783332	-0.00004611240	0.001823246
ALUMINUM	308.215	Radial	16.36160	0.05442514	0.3455271	0.1538705	0.3169796
ANTIMONY	206.833	Axial	0.1343024	-0.001782123	0.003536732	-0.03797923	0.007710653
BERYLLIUM	313.042	Radial	-10.1585	-0.00002815452	-0.0005865825	0.00003111524	0.0001331494
COPPER	324.754	Axial	215.6416	0.0005664642	0.002326703	0.003409609	0.002760650
IRON	259.940	Radial	70.77542	0.05843236	0.2831091	0.2904061	0.3029703
MANGANESE	257.610	Axial	2891.220	0.04307736	0.2157655	0.2155969	0.2147980
MOLYBDENUM	202.030	Axial	0.3901223	-0.0005979064	-0.006680053	-0.002323176	0.00003463437
NICKEL	231.604	Axial	-1.63465	0.002066228	0.01208100	0.008750725	0.01016171
PHOSPHORUS	177.495	Axial	1.644753	0.01024581	0.05175610	0.04862450	0.05330652
POTASSIUM	766.490	Radial	7674.853	23.43978	117.2554	117.3476	116.9938
SILICON	251.611	Axial	1638.165	0.4200418	2.081303	2.109070	2.110255
SODIUM	818.326	Radial	4577.025	67.83084	340.6463	338.4876	338.3288
STRONTIUM	421.552	Radial	3102.878	0.07682886	0.3838204	0.3857841	0.3828284
SULFUR	182.034	Axial	71.85903	1.126345	5.636324	5.636098	5.622748
THALLIUM	190.856	Axial	0.2449508	-0.004894666	-0.01018674	-0.01068329	-0.05254996
TIN	189.989	Axial	0.08276906	-0.0005170290	-0.007158536	-0.009037278	0.008440378
TITANIUM	334.941	Radial	0.4714070	0.0008690048	0.006673839	0.006263675	0.00009755832
VANADIUM	292.402	Radial	-2.06005	-0.002086372	-0.01112573	-0.008628325	-0.01154152
CERIUM	535.353	Radial	347.8982	0.05083792	0.1694644	0.2417785	0.3513258
LANTHANUM	333.749	Radial	2.994831	0.0004130138	-0.0005789828	0.01041277	-0.003638580

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1835084-01 Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 02:37 Sequence: 312

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10113.28	10121.80	10118.25	10099.79
YTTRIUM	360.073	Axial	285199.4	284768.0	282288.7	288541.7
YTTRIUM	360.073	Radial	12070.64	12074.62	12071.13	12066.17
INDIUM	230.606	Axial	2738.641	2740.563	2741.006	2734.354

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	107.2090	1.101187	1.094952	1.113724	1.094884
BARIUM	233.527	Axial	4375.719	1.147207	1.147361	1.146974	1.147287
BORON	249.678	Radial	419.5264	1.401308	1.390550	1.407809	1.405566
CADMIUM	228.802	Axial	6317.070	1.062077	1.063327	1.063540	1.059364
CALCIUM	373.690	Radial	37673.07	87.32251	87.31793	87.45323	87.19635
CHROMIUM	267.716	Axial	9515.516	1.071221	1.069954	1.071404	1.072305
COBALT	228.616	Axial	3548.503	1.044789	1.047252	1.043463	1.043651
LEAD	220.353	Axial	556.7982	1.049621	1.056901	1.051582	1.040378
LITHIUM	670.784	Radial	8073.748	1.079192	1.078446	1.086062	1.073069
MAGNESIUM	279.079	Radial	1113.359	21.87892	21.97493	21.91208	21.74975
SELENIUM	196.090	Axial	85.47523	1.077210	1.079969	1.066375	1.085285
SILVER	328.068	Axial	2533.334	0.2121606	0.2116689	0.2119792	0.2128338
ZINC	206.200	Axial	1779.924	1.074145	1.072241	1.074756	1.075437
ALUMINUM	308.215	Radial	1025.963	10.78824	10.74132	10.84911	10.77429
ANTIMONY	206.833	Axial	203.5663	1.037029	1.046728	1.032437	1.031922
BERYLLIUM	313.042	Radial	31538.34	1.042957	1.043216	1.043802	1.041852
COPPER	324.754	Axial	25124.94	1.065783	1.063459	1.066149	1.067741
IRON	259.940	Radial	5346.794	10.56813	10.56017	10.60869	10.53553
MANGANESE	257.610	Axial	80079.22	1.260379	1.263406	1.258160	1.259573
MOLYBDENUM	202.030	Axial	758.1543	1.063265	1.065887	1.063216	1.060692
NICKEL	231.604	Axial	1599.709	1.062279	1.063116	1.060904	1.062817
PHOSPHORUS	177.495	Axial	106.6017	1.108587	1.109480	1.112328	1.103951
POTASSIUM	766.490	Radial	41750.04	128.5135	128.5164	128.6976	128.3263
SILICON	251.611	Axial	10995.86	2.988377	2.987603	2.984632	2.992896
SODIUM	818.326	Radial	23225.04	342.1894	342.3747	342.3861	341.8072
STRONTIUM	421.552	Radial	57171.96	1.443969	1.442344	1.446888	1.442676
SULFUR	182.034	Axial	987.2402	16.63896	16.69993	16.62193	16.59502
THALLIUM	190.856	Axial	105.5566	1.052468	1.052966	1.068340	1.036098
TIN	189.989	Axial	249.2178	1.056932	1.059763	1.060741	1.050293
TITANIUM	334.941	Radial	4098.547	1.044254	1.046391	1.046943	1.039427
VANADIUM	292.402	Radial	674.0458	1.018167	1.014659	1.020324	1.019518
CERIUM	535.353	Radial	344.4845	0.05832770	0.1160277	0.1017191	-0.04276374
LANTHANUM	333.749	Radial	3.633081	0.001375977	0.003582924	0.0002390693	0.0003059366

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1835084-01 Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 02:39 Sequence: 313

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10078.03	10057.53	10069.95	10106.62
YTTRIUM	360.073	Axial	286274.3	287100.8	285889.0	285833.2
YTTRIUM	360.073	Radial	12096.06	12065.52	12064.96	12157.69
INDIUM	230.606	Axial	2723.077	2719.584	2720.929	2728.720

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	106.9532	1.102393	1.097657	1.104773	1.104748
BARIUM	233.527	Axial	4346.833	1.143626	1.145364	1.146309	1.139204
BORON	249.678	Radial	425.5883	1.418719	1.407349	1.427037	1.421771
CADMIUM	228.802	Axial	6271.010	1.058024	1.059101	1.059178	1.055794
CALCIUM	373.690	Radial	38418.42	88.86440	88.94090	88.94649	88.70581
CHROMIUM	267.716	Axial	9418.768	1.064036	1.064213	1.065668	1.062228
COBALT	228.616	Axial	3521.371	1.042732	1.045676	1.042829	1.039691
LEAD	220.353	Axial	556.2658	1.054606	1.054877	1.053972	1.054969
LITHIUM	670.784	Radial	8113.489	1.082214	1.080817	1.080691	1.085136
MAGNESIUM	279.079	Radial	1124.755	22.05686	22.21910	22.04605	21.90543
SELENIUM	196.090	Axial	85.23489	1.077947	1.080616	1.083098	1.070128
SILVER	328.068	Axial	2514.838	0.2113176	0.2128699	0.2110023	0.2100805
ZINC	206.200	Axial	1775.356	1.075146	1.079631	1.075497	1.070309
ALUMINUM	308.215	Radial	1033.387	10.84410	10.83380	10.86289	10.83560
ANTIMONY	206.833	Axial	199.9692	1.022228	1.015888	1.023727	1.027067
BERYLLIUM	313.042	Radial	31363.11	1.034991	1.033952	1.038241	1.032780
COPPER	324.754	Axial	24918.04	1.060670	1.064157	1.062455	1.055399
IRON	259.940	Radial	5387.084	10.62586	10.63071	10.63417	10.61271
MANGANESE	257.610	Axial	79291.48	1.252353	1.253373	1.257157	1.246527
MOLYBDENUM	202.030	Axial	739.6291	1.040896	1.042745	1.043062	1.036880
NICKEL	231.604	Axial	1593.741	1.064360	1.064570	1.065978	1.062533
PHOSPHORUS	177.495	Axial	106.6201	1.112687	1.112127	1.117914	1.108020
POTASSIUM	766.490	Radial	42704.98	131.1722	131.1259	131.0838	131.3069
SILICON	251.611	Axial	11659.91	3.180201	3.181245	3.188404	3.170954
SODIUM	818.326	Radial	23762.82	349.3403	349.0529	349.4036	349.5644
STRONTIUM	421.552	Radial	57579.84	1.451210	1.447160	1.452125	1.454343
SULFUR	182.034	Axial	988.4909	16.71853	16.73977	16.74059	16.67524
THALLIUM	190.856	Axial	104.8339	1.041151	1.037422	1.040049	1.045981
TIN	189.989	Axial	244.3639	1.039968	1.041306	1.043198	1.035399
TITANIUM	334.941	Radial	4026.117	1.023661	1.020718	1.027095	1.023171
VANADIUM	292.402	Radial	672.7280	1.014039	1.015896	1.009776	1.016444
CERIUM	535.353	Radial	340.1058	0.03619311	0.06349447	0.01124049	0.03384438
LANTHANUM	333.749	Radial	7.100715	0.006236761	0.007613798	0.004829688	0.006266797

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835084-02 DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 02:42 Sequence: 314

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10093.56	10097.20	10072.78	10110.69
YTTRIUM	360.073	Axial	281528.9	282589.1	281927.8	280069.7
YTTRIUM	360.073	Radial	12086.40	12163.31	12064.67	12031.21
INDIUM	230.606	Axial	2730.534	2734.763	2718.968	2737.871

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.1660653	0.007740414	0.01372699	0.002474284	0.007019971
BARIUM	233.527	Axial	360.0835	0.09465976	0.09337881	0.09435963	0.09624084
BORON	249.678	Radial	131.4855	0.4297990	0.4252666	0.4298310	0.4342995
CADMIUM	228.802	Axial	15.44080	0.002382023	0.0009010724	0.001849243	0.004395755
CALCIUM	373.690	Radial	34404.57	79.63864	79.38806	79.73004	79.79782
CHROMIUM	267.716	Axial	27.41295	0.002658771	0.002687610	0.002854970	0.002433733
COBALT	228.616	Axial	8.218653	0.003566750	0.002014268	0.003140519	0.005545464
LEAD	220.353	Axial	-0.1251720	0.002018991	0.001391226	0.0009499376	0.003715809
LITHIUM	670.784	Radial	76.08346	0.01181492	0.01240003	0.01140816	0.01163658
MAGNESIUM	279.079	Radial	631.0046	12.38268	12.31194	12.46009	12.37603
SELENIUM	196.090	Axial	-0.1982269	-0.007716727	-0.01791106	-0.0008618885	-0.004377232
SILVER	328.068	Axial	113.5073	0.001465335	0.001914444	0.0008115958	0.001669967
ZINC	206.200	Axial	16.06855	0.005265315	0.003523701	0.005052137	0.007220106
ALUMINUM	308.215	Radial	26.01537	0.1591501	0.1868560	0.1353411	0.1552534
ANTIMONY	206.833	Axial	0.4764314	0.000005480774	0.0009693094	-0.002436958	0.001484091
BERYLLIUM	313.042	Radial	-9.26696	-0.000003126548	-0.00004555933	-0.00007318416	0.0001093638
COPPER	324.754	Axial	238.3137	0.002004056	0.001916947	0.002213087	0.001882133
IRON	259.940	Radial	145.3582	0.2086852	0.2065446	0.2054079	0.2141029
MANGANESE	257.610	Axial	10809.29	0.1702696	0.1703851	0.1703364	0.1700875
MOLYBDENUM	202.030	Axial	3.259642	0.003463419	0.002130873	0.001343394	0.006915989
NICKEL	231.604	Axial	11.90852	0.01094406	0.009505106	0.009739585	0.01358749
PHOSPHORUS	177.495	Axial	3.784190	0.03353150	0.03183029	0.03387443	0.03488978
POTASSIUM	766.490	Radial	39776.10	122.2886	121.9717	122.3341	122.5600
SILICON	251.611	Axial	7029.214	1.912619	1.912824	1.918992	1.906041
SODIUM	818.326	Radial	23382.76	344.0577	343.1700	344.1903	344.8126
STRONTIUM	421.552	Radial	15432.26	0.3889709	0.3875092	0.3893439	0.3900594
SULFUR	182.034	Axial	366.3753	6.169523	6.154239	6.176642	6.177687
THALLIUM	190.856	Axial	0.9195778	0.002153541	-0.003146734	0.006551266	0.003056090
TIN	189.989	Axial	0.05054833	-0.0006362213	-0.001620369	-0.002078947	0.001790653
TITANIUM	334.941	Radial	-9.37794	-0.001634094	-0.001140334	-0.001431443	-0.002330505
VANADIUM	292.402	Radial	-0.3726122	0.0004127171	0.0009732215	0.001032615	-0.0007676849
CERIUM	535.353	Radial	361.3747	0.1296064	0.1666115	0.1729865	0.04922114
LANTHANUM	333.749	Radial	0.8601077	-0.002532978	-0.002168286	0.0004822882	-0.005912937

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1835084-02 Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 02:45 Sequence: 315

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10075.46	10074.30	10089.66	10062.43
YTTRIUM	360.073	Axial	285927.7	286677.7	285571.8	285533.5
YTTRIUM	360.073	Radial	12005.28	12097.64	11949.02	11969.17
INDIUM	230.606	Axial	2729.452	2727.170	2725.854	2735.333

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	106.1774	1.094718	1.093345	1.100914	1.089895
BARIUM	233.527	Axial	4331.652	1.139917	1.141500	1.139935	1.138315
BORON	249.678	Radial	415.7893	1.396377	1.387320	1.403369	1.398442
CADMIUM	228.802	Axial	6248.530	1.054498	1.053576	1.053296	1.056623
CALCIUM	373.690	Radial	37235.30	86.77846	86.51003	86.92443	86.90090
CHROMIUM	267.716	Axial	9375.857	1.059459	1.058297	1.055423	1.064657
COBALT	228.616	Axial	3507.687	1.036263	1.040426	1.036633	1.031729
LEAD	220.353	Axial	552.2749	1.044624	1.050791	1.045832	1.037248
LITHIUM	670.784	Radial	7989.451	1.073776	1.066139	1.074103	1.081085
MAGNESIUM	279.079	Radial	1095.265	21.64107	21.49240	21.66914	21.76167
SELENIUM	196.090	Axial	84.74160	1.071948	1.072655	1.066480	1.076709
SILVER	328.068	Axial	2500.082	0.2100818	0.2080093	0.2109571	0.2112791
ZINC	206.200	Axial	1759.308	1.065651	1.073327	1.063486	1.060141
ALUMINUM	308.215	Radial	995.9849	10.52738	10.49575	10.56435	10.52203
ANTIMONY	206.833	Axial	200.9281	1.027412	1.032338	1.026734	1.023163
BERYLLIUM	313.042	Radial	31022.30	1.031492	1.028689	1.033282	1.032504
COPPER	324.754	Axial	24779.92	1.055014	1.052606	1.050650	1.061786
IRON	259.940	Radial	5212.349	10.35702	10.32598	10.38323	10.36186
MANGANESE	257.610	Axial	76323.61	1.205773	1.204103	1.202580	1.210636
MOLYBDENUM	202.030	Axial	746.3239	1.050592	1.051665	1.048703	1.051408
NICKEL	231.604	Axial	1583.464	1.055058	1.057351	1.057872	1.049951
PHOSPHORUS	177.495	Axial	104.1057	1.086576	1.083100	1.087646	1.088982
POTASSIUM	766.490	Radial	41197.67	127.5076	126.8375	127.5291	128.1563
SILICON	251.611	Axial	9918.501	2.705320	2.697379	2.695348	2.723234
SODIUM	818.326	Radial	22893.55	339.1628	337.6804	339.6624	340.1457
STRONTIUM	421.552	Radial	56368.73	1.431454	1.425041	1.432683	1.436638
SULFUR	182.034	Axial	967.1807	16.36164	16.32084	16.36816	16.39594
THALLIUM	190.856	Axial	104.6539	1.040607	1.045460	1.033981	1.042380
TIN	189.989	Axial	245.7293	1.046043	1.047086	1.048075	1.042967
TITANIUM	334.941	Radial	4015.139	1.028603	1.023997	1.031796	1.030017
VANADIUM	292.402	Radial	667.8100	1.014233	1.016255	1.008954	1.017491
CERIUM	535.353	Radial	350.6006	0.09327176	0.08933965	0.08680081	0.1036748
LANTHANUM	333.749	Radial	5.142969	0.003523245	0.008303992	0.001756850	0.0005088932

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1835084-02 Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 02:48 Sequence: 316

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10107.37	10145.10	10078.00	10099.00
YTTRIUM	360.073	Axial	285047.5	287694.3	284847.8	282600.4
YTTRIUM	360.073	Radial	12040.30	11986.62	12086.57	12047.70
INDIUM	230.606	Axial	2739.642	2750.975	2730.152	2737.799

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	107.3096	1.102853	1.106939	1.104128	1.097493
BARIUM	233.527	Axial	4374.355	1.147526	1.145402	1.150290	1.146885
BORON	249.678	Radial	419.4761	1.404701	1.404850	1.405275	1.403977
CADMIUM	228.802	Axial	6319.854	1.063169	1.062935	1.063601	1.062972
CALCIUM	373.690	Radial	37553.70	87.26600	87.66741	87.14220	86.98841
CHROMIUM	267.716	Axial	9512.721	1.071535	1.070386	1.073423	1.070798
COBALT	228.616	Axial	3550.719	1.045067	1.041356	1.047413	1.046433
LEAD	220.353	Axial	556.8267	1.049296	1.051967	1.051479	1.044443
LITHIUM	670.784	Radial	8087.972	1.083805	1.080964	1.086330	1.084120
MAGNESIUM	279.079	Radial	1103.117	21.73259	21.85389	21.63626	21.70763
SELENIUM	196.090	Axial	86.63925	1.092581	1.101803	1.102599	1.073340
SILVER	328.068	Axial	2542.029	0.2130513	0.2108394	0.2146855	0.2136291
ZINC	206.200	Axial	1777.457	1.073285	1.070103	1.075215	1.074537
ALUMINUM	308.215	Radial	1015.796	10.70734	10.72268	10.78083	10.61850
ANTIMONY	206.833	Axial	195.3827	0.9958253	0.9987861	0.9965150	0.9921747
BERYLLIUM	313.042	Radial	31442.53	1.042410	1.043220	1.043019	1.040992
COPPER	324.754	Axial	25048.84	1.063168	1.059632	1.074775	1.055099
IRON	259.940	Radial	5309.807	10.52116	10.54690	10.52424	10.49236
MANGANESE	257.610	Axial	77194.36	1.215683	1.213802	1.218617	1.214630
MOLYBDENUM	202.030	Axial	724.8309	1.017082	1.013478	1.014401	1.023368
NICKEL	231.604	Axial	1601.704	1.063217	1.061044	1.065043	1.063565
PHOSPHORUS	177.495	Axial	105.5342	1.098080	1.093803	1.099605	1.100833
POTASSIUM	766.490	Radial	41526.08	128.1474	128.3888	127.9552	128.0983
SILICON	251.611	Axial	10301.49	2.801065	2.794332	2.816308	2.792557
SODIUM	818.326	Radial	23074.08	340.8291	341.0835	341.0540	340.3500
STRONTIUM	421.552	Radial	56915.03	1.441099	1.441148	1.444203	1.437946
SULFUR	182.034	Axial	982.4920	16.56862	16.54180	16.62401	16.54004
THALLIUM	190.856	Axial	105.9562	1.056976	1.048504	1.057639	1.064786
TIN	189.989	Axial	237.6278	1.008344	1.001016	1.007210	1.016807
TITANIUM	334.941	Radial	3898.301	0.9957705	0.9958151	0.9982245	0.9932718
VANADIUM	292.402	Radial	671.3438	1.016660	1.022205	1.009173	1.018601
CERIUM	535.353	Radial	344.9119	0.06400595	0.08589340	0.08242266	0.02370180
LANTHANUM	333.749	Radial	4.018289	0.001929696	-0.0004985912	0.001059747	0.005227932

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835052-03 DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 02:51 Sequence: 317

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11002.07	10982.12	11018.18	11005.91
YTTRIUM	360.073	Axial	316584.8	316847.0	315665.8	317241.5
YTTRIUM	360.073	Radial	12470.34	12551.19	12316.55	12543.27
INDIUM	230.606	Axial	3279.138	3269.218	3285.582	3282.613

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CHROMIUM	267.716	Axial	156.4982	0.01576654	0.01588349	0.01582434	0.01559179
LEAD	220.353	Axial	-0.6188437	0.001283851	0.0001597865	0.002153920	0.001537846
ALUMINUM	308.215	Radial	11.18446	-0.001855385	0.01476772	-0.0002462627	-0.02008762
ANTIMONY	206.833	Axial	1.508303	0.004648236	0.002390981	0.005507465	0.006046263
ARSENIC	189.042	Axial	-0.4019619	0.002268872	0.0008118379	0.003295385	0.002699394
BARIUM	233.527	Axial	66.80743	0.01617624	0.01524827	0.01573096	0.01754950
BERYLLIUM	313.042	Radial	-7.94841	0.00004785547	0.00005955342	-0.00001986736	0.0001038804
BORON	249.678	Radial	5.701734	0.005762466	0.002765322	0.008603294	0.005918782
CADMIUM	228.802	Axial	9.612067	0.001266883	0.0002791605	0.001070913	0.002450575
CALCIUM	317.933	Radial	2485.708	3.258443	3.260785	3.279032	3.235513
CERIUM	535.353	Radial	335.4698	-0.02754788	-0.03862321	-0.01059954	-0.03342090
COBALT	228.616	Axial	0.7800013	0.001335111	0.0008803775	0.0007777449	0.002347210
COPPER	324.754	Axial	233.7832	0.0009835580	0.001603258	0.0006284002	0.0007190156
IRON	259.940	Radial	45.21975	0.006740448	0.006778687	0.008241137	0.005201520
LANTHANUM	333.749	Radial	2.456233	-0.0003784260	-0.002219327	0.001662767	-0.0005787176
LITHIUM	670.784	Radial	1.476613	0.001862790	0.001746259	0.001227029	0.002615081
MAGNESIUM	279.079	Radial	62.84616	1.192564	1.171674	1.219309	1.186709
MANGANESE	257.610	Axial	69.15950	0.0007785052	0.0007085201	0.0007464159	0.0008805797
MOLYBDENUM	202.030	Axial	2.807509	0.002504277	0.001701870	0.001705301	0.004105659
NICKEL	231.604	Axial	-1.23549	0.002354191	0.001303881	0.002174822	0.003583869
PHOSPHORUS	177.495	Axial	0.6526145	0.0001562191	-0.002577904	-0.002586823	0.005633385
POTASSIUM	766.490	Radial	172.3775	0.7143031	0.7263751	0.7150431	0.7014910
SELENIUM	196.090	Axial	0.2031380	-0.002828412	0.01109255	-0.009724319	-0.009853468
SILICON	251.611	Axial	24025.21	6.006077	6.037252	5.992154	5.988825
SILVER	328.068	Axial	102.2036	-0.0002564151	-0.00007677640	-0.0004552419	-0.0002372272
SODIUM	589.592	Radial	10399.72	8.702269	8.701267	8.706167	8.699374
STRONTIUM	421.552	Radial	396.9453	0.009307235	0.008993159	0.009435719	0.009492826
SULFUR	182.034	Axial	18.85689	0.2648383	0.2536594	0.2630303	0.2778253
THALLIUM	190.856	Axial	0.2647323	-0.004819219	-0.003523309	-0.01095779	0.00002344125
TIN	189.989	Axial	0.6366573	0.001633389	-0.0005743501	0.001689154	0.003785363
TITANIUM	334.941	Radial	-4.13352	-0.0002656120	-0.0002852610	-0.0001620156	-0.0003495595
VANADIUM	292.402	Radial	-1.90905	-0.001793059	-0.005451026	0.001152260	-0.001080409
ZINC	206.200	Axial	8.437468	0.0002094774	-0.0005038835	-0.0002078163	0.001340132

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/14/25 02:54 Sequence: 318 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10416.45	10413.36	10399.72	10436.27
YTTRIUM	360.073	Axial	298543.8	297471.2	298593.5	299566.8
YTTRIUM	360.073	Radial	12077.43	12142.02	12016.33	12073.95
INDIUM	230.606	Axial	2967.553	2972.064	2952.772	2977.822

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	934.3182	9.808732	9.744571	9.848034	9.833592
ANTIMONY	206.833	Axial	102.2931	0.5046999	0.5031042	0.5030514	0.5079441
ARSENIC	189.042	Axial	101.4735	1.012430	1.015127	1.008236	1.013927
BARIUM	233.527	Axial	2057.182	0.5236882	0.5255588	0.5230714	0.5224345
BERYLLIUM	313.042	Radial	6143.459	0.2032910	0.2028262	0.2030164	0.2040305
BORON	249.678	Radial	293.6673	0.9764958	0.9797232	0.9798412	0.9699231
CADMIUM	228.802	Axial	3077.710	0.5022769	0.5029780	0.5035964	0.5002563
CALCIUM	373.690	Radial	22948.84	53.14313	52.96022	53.30969	53.15948
CHROMIUM	267.716	Axial	9613.699	1.050763	1.049694	1.049896	1.052701
COBALT	228.616	Axial	3630.349	0.9865096	0.9849944	0.9906148	0.9839195
COPPER	324.754	Axial	24989.32	1.028897	1.029943	1.030315	1.026432
IRON	259.940	Radial	5036.510	9.944611	9.909163	9.948492	9.976179
LEAD	220.353	Axial	285.1102	0.4972019	0.5024972	0.4978352	0.4912735
LITHIUM	670.784	Radial	7707.167	1.029682	1.031105	1.025352	1.032588
MAGNESIUM	279.079	Radial	490.3484	9.628973	9.560450	9.675802	9.650668
MANGANESE	257.610	Axial	67760.65	1.035422	1.038625	1.038037	1.029603
MOLYBDENUM	202.030	Axial	189.6606	0.2573986	0.2577328	0.2566522	0.2578108
NICKEL	231.604	Axial	1623.811	0.9953092	0.9952826	0.9989978	0.9916472
PHOSPHORUS	177.495	Axial	96.73486	0.9759781	0.9842879	0.9742168	0.9694296
POTASSIUM	766.490	Radial	16258.07	50.14015	50.03367	50.14813	50.23865
SELENIUM	196.090	Axial	81.28723	0.9942187	0.9993713	0.9979032	0.9853816
SILICON	251.611	Axial	7727.368	2.037659	2.033288	2.035251	2.044437
SILVER	328.068	Axial	6364.730	0.5296590	0.5292897	0.5295634	0.5301238
SODIUM	818.326	Radial	3370.131	51.10494	50.80994	51.26537	51.23950
STRONTIUM	421.552	Radial	41063.63	1.036438	1.034305	1.038235	1.036776
SULFUR	182.034	Axial	290.5441	4.734510	4.769288	4.741274	4.692967
THALLIUM	190.856	Axial	110.8097	1.055395	1.070291	1.053400	1.042496
TIN	189.989	Axial	126.7415	0.5214349	0.5190388	0.5198724	0.5253934
TITANIUM	334.941	Radial	3955.246	1.007214	1.003751	1.009613	1.008278
VANADIUM	292.402	Radial	659.6984	0.9959534	0.9969606	0.9958712	0.9950285
ZINC	206.200	Axial	1780.843	1.043295	1.044761	1.045545	1.039578
CERIUM	535.353	Radial	348.8358	0.07646992	0.08142810	0.1105681	0.03741356
HOT WATER SOL. BORON	249.678	Radial	293.6673	0.9764958	0.9797232	0.9798412	0.9699231
LANTHANUM	333.749	Radial	3.518657	0.001230892	-0.005020725	0.005427602	0.003285798

Sample ID: CCB Units: mg/l
Analyzed: 03/14/25 02:57 Sequence: 319

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10934.07	10905.95	10945.49	10950.77
YTTRIUM	360.073	Axial	319663.0	320450.4	318463.7	320074.9
YTTRIUM	360.073	Radial	12303.08	12374.65	12275.45	12259.15
INDIUM	230.606	Axial	3310.124	3307.754	3311.375	3311.244

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	12.34967	0.01180271	0.03074653	-0.006238554	0.01090015
ANTIMONY	206.833	Axial	0.3497825	-0.0007760962	0.00004383627	0.0004971875	-0.002869312
ARSENIC	189.042	Axial	-0.3075166	0.003130511	-0.003491634	0.005541878	0.007341288
BARIUM	233.527	Axial	3.847835	0.001009167	0.00004347980	0.0008313019	0.002152720
BERYLLIUM	313.042	Radial	-11.7196	-0.00007733983	-0.0001305867	-0.00008606061	-0.00001537219
BORON	249.678	Radial	3.050827	-0.002760628	-0.005474544	-0.003607347	0.0008000070
CADMIUM	228.802	Axial	9.539725	0.001264242	0.0003537305	0.001116825	0.002322171
CALCIUM	317.933	Radial	73.71233	-0.008117620	-0.007087985	-0.0006621219	-0.01660275
CERIUM	535.353	Radial	342.4949	0.02155010	0.01868288	0.01712153	0.02884588
CHROMIUM	267.716	Axial	7.712963	0.0003682237	0.00009316615	0.0002155515	0.0007959533
COBALT	228.616	Axial	3.398253	0.001970352	0.0004806618	0.001651584	0.003778812
COPPER	324.754	Axial	213.6517	0.0002443328	0.0003547640	0.0003330638	0.00004517060
HOT WATER SOL. BORON	249.678	Radial	3.050827	-0.002760628	-0.005474544	-0.003607347	0.0008000070
IRON	259.940	Radial	41.57943	0.0008049965	0.00003171756	0.002693604	-0.0003103325
LANTHANUM	333.749	Radial	3.368870	0.0008949621	0.007798152	-0.003103753	-0.002009513
LEAD	220.353	Axial	-0.7526113	0.001086629	0.001234527	0.000003233802	0.002022127
LITHIUM	670.784	Radial	-12.9278	-0.00001629627	-0.0001036237	-0.0007034223	0.0007581572
MAGNESIUM	279.079	Radial	1.136958	0.01870814	0.02443955	0.009680325	0.02200455
MANGANESE	257.610	Axial	27.71331	0.0001812417	0.0001508651	0.00007022344	0.0003226366
MOLYBDENUM	202.030	Axial	1.797476	0.001214972	0.0008839779	0.0005332387	0.002227700
NICKEL	231.604	Axial	-1.27030	0.002342248	0.0005020370	0.001950484	0.004574224
PHOSPHORUS	177.495	Axial	0.5374717	-0.0009238884	-0.005566664	-0.001490929	0.004285928
POTASSIUM	766.490	Radial	-53.8769	0.03903641	0.04523977	0.03288730	0.03898217
SELENIUM	196.090	Axial	-0.01821210	-0.005411366	0.0001392400	-0.005466583	-0.01090675
SILICON	251.611	Axial	25.65295	0.002368804	0.002339499	0.002521549	0.002245362
SILVER	328.068	Axial	103.3915	-0.0001109103	-0.0007500696	0.00006184066	0.0003554981
SODIUM	589.592	Radial	94.08663	0.03746647	0.03667561	0.03809118	0.03763263
STRONTIUM	421.552	Radial	15.65878	-0.00001218863	-0.00004105463	-0.0001355186	0.0001400074
SULFUR	182.034	Axial	1.834473	0.0008634516	0.002607167	-0.006996178	0.006979365
THALLIUM	190.856	Axial	0.6887435	-0.001041150	-0.002105133	-0.004735617	0.003717301
TIN	189.989	Axial	0.5203548	0.001194408	0.001537791	0.001633427	0.0004120068
TITANIUM	334.941	Radial	0.3878506	0.0008521925	-0.00007387985	0.0008984487	0.001732009
VANADIUM	292.402	Radial	-0.7196200	-0.00008283491	-0.001866449	-0.0003802344	0.001998179
ZINC	206.200	Axial	9.199163	0.0006636626	-0.0009858605	0.0001232045	0.002853644

Sample ID: L1835142-01 DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 03:00 Sequence: 320

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10748.58	10726.41	10755.55	10763.79
YTTRIUM	360.073	Axial	311594.1	309687.3	311424.5	313670.5
YTTRIUM	360.073	Radial	12355.45	12403.17	12277.28	12385.89
INDIUM	230.606	Axial	3151.269	3146.011	3159.073	3148.723

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.3787678	0.002401087	-0.001239669	0.006666834	0.001776096
BARIUM	233.527	Axial	299.8539	0.07404062	0.07426899	0.07408648	0.07376640
BORON	249.678	Radial	15.72331	0.03890774	0.04274242	0.03524561	0.03873519
CADMIUM	228.802	Axial	2.673605	0.0002046989	0.0001618805	0.0002614841	0.0001907322
CHROMIUM	267.716	Axial	9.570724	0.0005792074	0.0004876275	0.0004483884	0.0008016063
COBALT	228.616	Axial	-0.2438975	0.001081381	0.001125272	0.001319882	0.0007989897
LEAD	220.353	Axial	-0.3842581	0.001630618	0.002562099	0.001021525	0.001308231
LITHIUM	670.784	Radial	12.37818	0.003292171	0.003001730	0.004065396	0.002809389
SELENIUM	196.090	Axial	0.7262290	0.003448296	0.003991805	0.004621035	0.001732047
SILVER	328.068	Axial	104.6119	0.0001347173	0.001155766	-0.0002281009	-0.0005235137
ALUMINUM	308.215	Radial	69.26975	0.6023944	0.5955735	0.6071058	0.6045039
ANTIMONY	206.833	Axial	-0.3322815	-0.004023957	-0.002229618	-0.004729364	-0.005112888
BERYLLIUM	313.042	Radial	-8.18967	0.00003805486	-0.0001077030	-0.000004246214	0.0002261138
CALCIUM	373.690	Radial	21828.20	49.40686	49.35090	49.58150	49.28819
CERIUM	535.353	Radial	344.8169	0.02507500	0.1528230	-0.001531129	-0.07606689
COPPER	324.754	Axial	313.4732	0.004404477	0.004212531	0.004476007	0.004524893
IRON	259.940	Radial	406.6395	0.7107439	0.7153820	0.7105524	0.7062974
LANTHANUM	333.749	Radial	3.192894	0.0006590428	-0.005445473	0.001730393	0.005692208
MAGNESIUM	279.079	Radial	505.8142	9.709114	9.690204	9.746348	9.690790
MANGANESE	257.610	Axial	22219.71	0.3288875	0.3310271	0.3286067	0.3270288
MOLYBDENUM	202.030	Axial	0.7300269	-0.0001544500	-0.0003838214	-0.00001554282	-0.00006398583
NICKEL	231.604	Axial	5.478662	0.006191740	0.006173093	0.005934095	0.006468031
PHOSPHORUS	177.495	Axial	15.78033	0.1491380	0.1449379	0.1532288	0.1492473
POTASSIUM	766.490	Radial	2534.626	7.811642	7.746455	7.779492	7.908978
SILICON	251.611	Axial	11767.79	3.009170	3.017892	3.001100	3.008518
SODIUM	589.592	Radial	10850.12	9.165992	9.111672	9.213960	9.172344
STRONTIUM	421.552	Radial	8102.780	0.1995885	0.1987807	0.2002191	0.1997657
SULFUR	182.034	Axial	1777.372	28.20475	28.30351	28.22528	28.08546
THALLIUM	190.856	Axial	0.2472783	-0.004927850	-0.004438802	-0.004238077	-0.006106671
TIN	189.989	Axial	-0.4194359	-0.002522327	-0.001396853	-0.001144047	-0.005026080
TITANIUM	334.941	Radial	17.52621	0.005108899	0.005672568	0.004208824	0.005445305
VANADIUM	292.402	Radial	0.4832840	0.001690582	0.0006941694	0.001934389	0.002443187
ZINC	206.200	Axial	14.19438	0.003602980	0.003501602	0.003334353	0.003972986

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835142-03 DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 03:02 Sequence: 321

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10655.06	10689.11	10653.98	10622.09
YTTRIUM	360.073	Axial	307628.6	306277.0	308204.7	308404.2
YTTRIUM	360.073	Radial	12331.54	12328.85	12233.13	12432.64
INDIUM	230.606	Axial	3110.316	3119.663	3102.680	3108.604

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.2697392	0.003418217	0.008114750	0.004723006	-0.002583104
BARIUM	233.527	Axial	338.9866	0.08442701	0.08450139	0.08409965	0.08468000
BORON	249.678	Radial	18.52053	0.04823861	0.05020678	0.04506061	0.04944844
CADMIUM	228.802	Axial	3.346662	0.0003156936	0.0003879805	0.0003456743	0.0002134261
CHROMIUM	267.716	Axial	12.92951	0.0009472819	0.001123728	0.0005812214	0.001136897
COBALT	228.616	Axial	-1.36249	0.0007909097	0.001025414	0.0008766910	0.0004706242
LEAD	220.353	Axial	-1.15918	0.0003343776	0.003178127	0.00006160766	-0.002236602
LITHIUM	670.784	Radial	37.96775	0.006637061	0.009361279	0.005450988	0.005098916
SELENIUM	196.090	Axial	0.1811898	-0.003009107	-0.01416047	0.001684013	0.003449134
SILVER	328.068	Axial	95.47405	-0.0005466881	-0.0004818163	-0.0003841694	-0.0007740786
ALUMINUM	308.215	Radial	39.92144	0.2986137	0.3298177	0.3177957	0.2482276
ANTIMONY	206.833	Axial	0.2284968	-0.001323152	-0.0005349159	-0.001814178	-0.001620361
BERYLLIUM	313.042	Radial	-11.4591	-0.00006819958	-0.00007925029	-0.00006158494	-0.00006376349
CALCIUM	373.690	Radial	30677.41	69.59471	69.85997	69.94274	68.98142
CERIUM	535.353	Radial	342.0764	0.01632062	0.003996737	0.01107637	0.03388877
COPPER	324.754	Axial	266.9674	0.002628676	0.002666625	0.002370880	0.002848521
IRON	259.940	Radial	290.7753	0.4864387	0.4842215	0.4929534	0.4821410
LANTHANUM	333.749	Radial	6.649355	0.005424011	-0.0003600147	0.008356125	0.008275924
MAGNESIUM	279.079	Radial	755.8324	14.53816	14.61683	14.56991	14.42774
MANGANESE	257.610	Axial	28648.31	0.4278279	0.4272572	0.4278845	0.4283419
MOLYBDENUM	202.030	Axial	1.741925	0.001203113	0.001170931	0.0007858340	0.001652576
NICKEL	231.604	Axial	3.223968	0.004917757	0.005384355	0.004712379	0.004656537
PHOSPHORUS	177.495	Axial	8.687686	0.08011111	0.07678281	0.08583866	0.07771186
POTASSIUM	766.490	Radial	2569.009	7.929999	7.983685	7.921174	7.885139
SILICON	251.611	Axial	9168.401	2.364157	2.371381	2.362436	2.358655
SODIUM	589.592	Radial	17004.15	14.41709	14.46702	14.45171	14.33254
STRONTIUM	421.552	Radial	11570.98	0.2857424	0.2866563	0.2857826	0.2847883
SULFUR	182.034	Axial	3045.018	48.76523	48.65075	48.67493	48.97001
THALLIUM	190.856	Axial	0.7880135	0.0001443045	0.007020840	-0.005777467	-0.0008104594
TIN	189.989	Axial	0.2296240	0.00008081554	-0.002156045	0.00007582608	0.002322666
TITANIUM	334.941	Radial	5.322402	0.002082731	0.003403368	0.002112988	0.0007318369
VANADIUM	292.402	Radial	0.4171678	0.001583283	-0.001356604	0.001288392	0.004818060
ZINC	206.200	Axial	7.773755	-0.00001940514	0.0002858582	-0.0001086093	-0.0002354644

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835142-05 DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 03:05 Sequence: 322

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10676.24	10691.50	10666.82	10670.40
YTTRIUM	360.073	Axial	308039.4	310705.2	308756.5	304656.7
YTTRIUM	360.073	Radial	12417.94	12430.80	12385.02	12437.99
INDIUM	230.606	Axial	3119.213	3120.661	3117.706	3119.273

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.4532979	0.001657972	0.002663541	0.004054490	-0.001744115
BARIUM	233.527	Axial	328.8661	0.08174616	0.08181176	0.08131483	0.08211188
BORON	249.678	Radial	19.06405	0.04960218	0.04872746	0.04708757	0.05299150
CADMIUM	228.802	Axial	4.072246	0.0004303442	0.0004688268	0.0001767517	0.0006454541
CHROMIUM	267.716	Axial	10.58465	0.0006945782	0.0004861491	0.001168769	0.0004288170
COBALT	228.616	Axial	-1.91726	0.0006487482	0.001023052	0.0001724685	0.0007507239
LEAD	220.353	Axial	-0.4495979	0.001515201	0.001994821	0.001250943	0.001299839
LITHIUM	670.784	Radial	32.16153	0.005848840	0.005413577	0.006440754	0.005692188
SELENIUM	196.090	Axial	0.6908364	0.003077524	0.007491448	-0.005925774	0.007666899
SILVER	328.068	Axial	104.8176	0.0002080677	0.0009725197	-0.0006468936	0.0002985770
ALUMINUM	308.215	Radial	44.69375	0.3448256	0.3197047	0.3381435	0.3766285
ANTIMONY	206.833	Axial	-0.1384900	-0.003099166	-0.003429235	-0.003815487	-0.002052775
BERYLLIUM	313.042	Radial	-10.6756	-0.00004047261	-0.00008138878	-0.00005309137	0.00001306232
CALCIUM	373.690	Radial	29581.57	66.63698	66.64052	66.62077	66.64964
CERIUM	535.353	Radial	341.2044	0.002533644	0.01226662	-0.01720576	0.01254007
COPPER	324.754	Axial	272.3163	0.002823888	0.002421907	0.003056524	0.002993233
IRON	259.940	Radial	322.2231	0.5433456	0.5403024	0.5440615	0.5456728
LANTHANUM	333.749	Radial	2.078294	-0.0008997864	-0.001239927	-0.004766929	0.003307497
MAGNESIUM	279.079	Radial	731.7096	13.97577	14.03316	13.98633	13.90781
MANGANESE	257.610	Axial	27396.77	0.4083144	0.4088338	0.4070813	0.4090280
MOLYBDENUM	202.030	Axial	1.396075	0.0007372213	0.001838442	-0.0004884971	0.0008617187
NICKEL	231.604	Axial	2.738423	0.004630682	0.004690768	0.003960793	0.005240487
PHOSPHORUS	177.495	Axial	9.061500	0.08364100	0.08543471	0.08936651	0.07612179
POTASSIUM	766.490	Radial	2481.912	7.615988	7.623731	7.653798	7.570435
SILICON	251.611	Axial	9111.047	2.344675	2.358873	2.324686	2.350467
SODIUM	589.592	Radial	16534.14	13.91927	13.89192	13.93138	13.93452
STRONTIUM	421.552	Radial	11147.40	0.2733462	0.2727706	0.2730758	0.2741923
SULFUR	182.034	Axial	2923.148	46.71919	46.68663	46.74651	46.72444
THALLIUM	190.856	Axial	-0.1959307	-0.009030959	-0.009769852	-0.006449270	-0.01087376
TIN	189.989	Axial	-0.01237524	-0.0008985402	-0.001041996	-0.0003132223	-0.001340403
TITANIUM	334.941	Radial	8.484393	0.002851845	0.003073132	0.002592499	0.002889904
VANADIUM	292.402	Radial	-1.90315	-0.001814761	-0.002084877	-0.001758498	-0.001600907
ZINC	206.200	Axial	8.015997	0.0001113905	0.00007286129	0.0003949867	-0.0001336764

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835142-06 DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 03:08 Sequence: 323

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10703.50	10694.43	10703.50	10712.56
YTTRIUM	360.073	Axial	309012.2	312129.2	305343.2	309564.3
YTTRIUM	360.073	Radial	12332.70	12217.39	12438.26	12342.44
INDIUM	230.606	Axial	3133.395	3127.096	3132.327	3140.761

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.4547876	0.001657291	0.002130809	0.008267071	-0.005426007
BARIUM	233.527	Axial	361.5584	0.08963614	0.08965945	0.08925981	0.08998917
BORON	249.678	Radial	11.46078	0.02494680	0.02076006	0.02175568	0.03232466
CADMIUM	228.802	Axial	1.011689	-0.00005754780	-0.00003651504	-0.0001059289	-0.00003019950
CHROMIUM	267.716	Axial	14.95370	0.001156495	0.001230753	0.001235254	0.001003477
COBALT	228.616	Axial	-2.23201	0.0005705898	0.0008467104	0.0005385206	0.0003265384
LEAD	220.353	Axial	-0.7450167	0.001033139	0.001524553	0.0004076762	0.001167189
LITHIUM	670.784	Radial	15.28316	0.003665823	0.002379188	0.004451340	0.004166940
SELENIUM	196.090	Axial	1.100445	0.007959301	-0.001552617	0.01968229	0.005748231
SILVER	328.068	Axial	96.27460	-0.0005157254	0.0003549875	-0.0004644763	-0.001437687
ALUMINUM	308.215	Radial	72.35873	0.6359359	0.6496060	0.6167878	0.6414141
ANTIMONY	206.833	Axial	0.1599426	-0.001657567	-0.003272909	0.002233300	-0.003933092
BERYLLIUM	313.042	Radial	-9.60025	-0.000008063742	-0.00001760380	-0.000003452590	-0.000003134831
CALCIUM	373.690	Radial	21285.39	48.26666	48.52830	48.11073	48.16096
CERIUM	535.353	Radial	338.9905	0.003207810	0.03157798	0.0007408697	-0.02269542
COPPER	324.754	Axial	267.1991	0.002588999	0.002953336	0.002412915	0.002400746
IRON	259.940	Radial	382.1466	0.6644804	0.6677308	0.6620827	0.6636277
LANTHANUM	333.749	Radial	2.566074	-0.0001826937	0.0005952502	-0.006811384	0.005668053
MAGNESIUM	279.079	Radial	391.0826	7.520306	7.619266	7.482342	7.459311
MANGANESE	257.610	Axial	5744.477	0.08522053	0.08514866	0.08528152	0.08523140
MOLYBDENUM	202.030	Axial	1.474772	0.0008382635	0.001818642	0.0007066509	-0.00001050266
NICKEL	231.604	Axial	0.2365675	0.003175012	0.002809618	0.002990876	0.003724542
PHOSPHORUS	177.495	Axial	9.112504	0.08391519	0.08016264	0.08533211	0.08625082
POTASSIUM	766.490	Radial	1912.293	5.953940	5.976159	5.907659	5.978002
SILICON	251.611	Axial	6595.338	1.691822	1.694731	1.684929	1.695806
SODIUM	589.592	Radial	23096.01	19.59521	19.61438	19.58554	19.58572
STRONTIUM	421.552	Radial	8560.714	0.2112766	0.2109728	0.2116118	0.2112451
SULFUR	182.034	Axial	927.5624	14.76800	14.72751	14.79776	14.77872
THALLIUM	190.856	Axial	0.3586994	-0.003886299	-0.007861263	-0.007602419	0.003804785
TIN	189.989	Axial	-0.2910140	-0.002015844	-0.002229932	-0.0009676119	-0.002849989
TITANIUM	334.941	Radial	31.79908	0.008675712	0.008464301	0.008719373	0.008843461
VANADIUM	292.402	Radial	0.5384201	0.001760986	0.0005569089	0.004501899	0.0002241511
ZINC	206.200	Axial	7.020026	-0.0004708630	-0.001022795	-0.00008305781	-0.0003067366

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835143-01 DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 03:11 Sequence: 324

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9615.944	9619.454	9616.537	9611.842
YTTRIUM	360.073	Axial	265358.5	265872.9	264958.7	265243.9
YTTRIUM	360.073	Radial	11881.36	11995.29	11807.02	11841.75
INDIUM	230.606	Axial	2509.013	2513.569	2507.996	2505.474

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ZINC	206.200	Axial	70.29337	0.04031070	0.04025483	0.04055729	0.04011999
ALUMINUM	308.215	Radial	23.49263	0.1366838	0.1505132	0.1267715	0.1327667
ANTIMONY	206.833	Axial	-0.02343829	-0.002555763	-0.0004937682	-0.003045277	-0.004128242
ARSENIC	189.042	Axial	0.2626945	0.008866493	0.008055253	0.01258477	0.005959455
BARIUM	233.527	Axial	763.4883	0.2105838	0.2106579	0.2119561	0.2091374
BERYLLIUM	313.042	Radial	-10.0810	-0.00003534380	-0.0001560425	0.00007174348	-0.00002173235
BORON	249.678	Radial	351.5470	1.191059	1.185402	1.189438	1.198337
CADMIUM	228.802	Axial	3.979144	0.0004854352	0.0005690462	0.0004981142	0.0003891453
CALCIUM	373.690	Radial	45298.10	106.6819	106.5081	106.7593	106.7784
CERIUM	535.353	Radial	341.5258	0.06898560	0.09954305	0.03862981	0.06878393
CHROMIUM	267.716	Axial	66.04764	0.007388367	0.007416023	0.006959026	0.007790050
COBALT	228.616	Axial	7.720356	0.003622704	0.003336272	0.003645040	0.003886798
COPPER	324.754	Axial	230.8534	0.002175360	0.002087583	0.002589260	0.001849237
IRON	259.940	Radial	1104.226	2.153764	2.153126	2.164487	2.143678
LANTHANUM	333.749	Radial	2.055477	-0.0007985696	-0.001672935	-0.004817115	0.004094341
LEAD	220.353	Axial	-1.21185	-0.0002282062	-0.002572125	0.0009365596	0.0009509467
LITHIUM	670.784	Radial	222.1122	0.03179888	0.03020089	0.03274105	0.03245470
MAGNESIUM	279.079	Radial	1060.533	21.17298	21.12874	21.20737	21.18282
MANGANESE	257.610	Axial	62571.20	1.035713	1.037343	1.037318	1.032478
MOLYBDENUM	202.030	Axial	2.054504	0.001914923	0.002749250	0.0009803475	0.002015171
NICKEL	231.604	Axial	23.17774	0.01979081	0.01929676	0.02019874	0.01987694
PHOSPHORUS	177.495	Axial	46.63313	0.5067337	0.5010947	0.5213918	0.4977147
POTASSIUM	766.490	Radial	111874.8	349.5041	350.2436	348.6232	349.6454
SELENIUM	196.090	Axial	0.5710564	0.002399028	0.006084418	0.001968911	-0.0008562447
SILICON	251.611	Axial	12529.95	3.582232	3.583146	3.581796	3.581752
SILVER	328.068	Axial	105.4438	0.001219447	0.001107356	0.0008934733	0.001657513
SODIUM	818.326	Radial	61871.71	923.1612	924.1789	919.3594	925.9453
STRONTIUM	421.552	Radial	21489.10	0.5511341	0.5518957	0.5477462	0.5537603
SULFUR	182.034	Axial	284.0762	5.016089	4.992586	5.028153	5.027528
THALLIUM	190.856	Axial	0.4507500	-0.002345026	-0.0004850803	-0.01051455	0.003964556
TIN	189.989	Axial	0.3712348	0.0008079997	0.002355176	-0.0003036271	0.0003724507
TITANIUM	334.941	Radial	-17.5518	-0.003788754	-0.003473496	-0.003670982	-0.004221782
VANADIUM	292.402	Radial	-0.9325166	-0.0004470407	-0.0005656722	0.004901042	-0.005676492

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835163-01 DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 03:14 Sequence: 325

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11073.60	11074.58	11053.00	11093.23
YTTRIUM	360.073	Axial	319069.2	317442.9	321091.7	318673.0
YTTRIUM	360.073	Radial	12496.97	12433.83	12507.32	12549.76
INDIUM	230.606	Axial	3338.846	3334.703	3332.090	3349.746

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CHROMIUM	267.716	Axial	2.398148	-0.0001879192	0.00003084660	-0.00009419040	-0.0005004139
ALUMINUM	308.215	Radial	12.33977	0.009733764	0.005786156	0.002451604	0.02096353
ANTIMONY	206.833	Axial	-0.1070629	-0.002929098	-0.0001407538	-0.004544365	-0.004102174
ARSENIC	189.042	Axial	-0.3506592	0.002771509	0.007260629	-0.0007878558	0.001841753
BARIUM	233.527	Axial	1.282886	0.0003842621	0.0001017295	0.0001944914	0.0008565652
BERYLLIUM	313.042	Radial	-12.1099	-0.00008413915	-0.0001189004	-0.00004619920	-0.00008731784
BORON	249.678	Radial	3.006769	-0.003083276	-0.006738672	-0.005286053	0.002774896
CADMIUM	228.802	Axial	0.9829712	-0.00006743688	-0.00005054040	-0.0001643757	0.00001260550
CALCIUM	317.933	Radial	82.38659	0.002044224	0.0009041681	0.004167935	0.001060569
CERIUM	535.353	Radial	345.5536	0.01177855	0.06027549	-0.06093124	0.03599140
COBALT	228.616	Axial	-3.99714	0.0001794042	-0.00006503828	0.0002165869	0.0003866641
COPPER	324.754	Axial	217.8673	0.0003023448	0.0002110112	0.0003821759	0.0003138472
IRON	259.940	Radial	41.48422	-0.0006363710	0.00007755078	0.0008162745	-0.002802938
LANTHANUM	333.749	Radial	5.126647	0.003235094	0.003134764	0.005636947	0.0009335725
LEAD	220.353	Axial	-1.28003	0.0002830034	0.0003423214	0.0003064929	0.0002001957
LITHIUM	670.784	Radial	-14.2382	-0.0001595036	-0.0001040273	-0.0002837586	-0.00009072493
MAGNESIUM	279.079	Radial	1.376275	0.02298849	0.04596558	0.01624779	0.006752101
MANGANESE	257.610	Axial	28.33833	0.0001852393	0.00009253601	0.0002587980	0.0002043839
MOLYBDENUM	202.030	Axial	0.8094269	-0.00008008949	0.0001438190	0.0003364822	-0.0007205696
NICKEL	231.604	Axial	-4.43449	0.0006293970	0.0004962066	0.0001977832	0.001194201
PHOSPHORUS	177.495	Axial	-0.02843891	-0.006383762	-0.003347578	-0.004829453	-0.01097426
POTASSIUM	766.490	Radial	13.01581	0.2400703	0.2075418	0.2635665	0.2491025
SELENIUM	196.090	Axial	0.6181582	0.001952635	-0.003021218	0.01178155	-0.002902428
SILICON	251.611	Axial	67.09330	0.01258757	0.01368421	0.01239892	0.01167959
SILVER	328.068	Axial	103.0363	-0.0002437129	-0.0003871000	-0.0005679995	0.0002239607
SODIUM	589.592	Radial	261.7352	0.1769272	0.1876353	0.1779206	0.1652258
STRONTIUM	421.552	Radial	19.32400	0.00007136212	0.0001642654	0.00006441730	-0.00001459633
SULFUR	182.034	Axial	2.069221	0.004124546	-0.0002191866	0.009269133	0.003323692
THALLIUM	190.856	Axial	0.2826426	-0.004668874	-0.006576431	-0.005102332	-0.002327861
TIN	189.989	Axial	0.07773459	-0.0005480547	0.001618838	-0.001912737	-0.001350265
TITANIUM	334.941	Radial	-0.4432992	0.0006433712	0.0002593332	0.001651286	0.00001949412
VANADIUM	292.402	Radial	-0.7857689	-0.0001659710	0.0001345012	0.001190980	-0.001823394
ZINC	206.200	Axial	2.790949	-0.002945440	-0.003363214	-0.002642285	-0.002830822

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835163-02 DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 03:17 Sequence: 326

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10052.57	10048.99	10050.28	10058.44
YTTRIUM	360.073	Axial	289860.7	290773.2	288362.3	290446.5
YTTRIUM	360.073	Radial	12052.25	12201.78	12074.29	11880.70
INDIUM	230.606	Axial	2794.511	2796.175	2790.939	2796.419

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CHROMIUM	267.716	Axial	-9.14254	-0.001470736	-0.001516604	-0.001604507	-0.001291097
ALUMINUM	308.215	Radial	12.47515	0.01569303	0.03177037	0.02210371	-0.006794982
ANTIMONY	206.833	Axial	0.8387180	0.001878720	0.003674633	-0.001792426	0.003753953
ARSENIC	189.042	Axial	16.48658	0.1754733	0.1743499	0.1781138	0.1739562
BARIUM	233.527	Axial	7918.977	2.088640	2.092036	2.090312	2.083572
BERYLLIUM	313.042	Radial	-10.8056	-0.00005542837	0.00001328272	-0.0001191597	-0.00006040811
BORON	249.678	Radial	1.703792	-0.007127035	-0.006072400	-0.005154536	-0.01015417
CADMIUM	228.802	Axial	4.214621	0.0004947093	0.0003326354	0.0006051765	0.0005463161
CALCIUM	373.690	Radial	94094.82	218.5178	217.5845	219.5775	218.3915
CERIUM	535.353	Radial	338.7578	0.03623107	-0.03614405	0.05350997	0.09132728
COBALT	228.616	Axial	356.1423	0.1037944	0.1040129	0.1037683	0.1036019
COPPER	324.754	Axial	96.51800	-0.004052224	-0.003986498	-0.003784326	-0.004385848
IRON	271.441	Radial	1942.904	76.18980	75.85624	76.42894	76.28421
LANTHANUM	333.749	Radial	3.366545	0.001012620	-0.0007302983	0.003106593	0.0006615646
LEAD	220.353	Axial	0.2613789	0.002740418	0.0009171675	0.003935555	0.003368531
LITHIUM	670.784	Radial	1481.043	0.1996487	0.1978724	0.2003071	0.2007667
MAGNESIUM	279.079	Radial	2567.319	50.53185	50.29895	51.00195	50.29464
MANGANESE	257.610	Axial	891510.4	14.11864	14.08556	14.15690	14.11347
MOLYBDENUM	202.030	Axial	10.80869	0.01414753	0.01396701	0.01411541	0.01436018
NICKEL	231.604	Axial	405.9447	0.2664594	0.2670612	0.2665396	0.2657773
PHOSPHORUS	177.495	Axial	94.41584	0.9871274	0.9836450	0.9886041	0.9891331
POTASSIUM	766.490	Radial	3314.410	10.40338	10.38840	10.42286	10.39887
SELENIUM	196.090	Axial	1.121626	0.009083730	0.02015915	-0.004015736	0.01110777
SILICON	251.611	Axial	91072.04	24.93038	24.95931	25.01854	24.81329
SILVER	328.068	Axial	103.1633	0.0005998979	-0.0004253274	0.0008179324	0.001407089
SODIUM	818.326	Radial	5649.066	84.66953	84.21391	84.70398	85.09071
STRONTIUM	421.552	Radial	112181.2	2.838111	2.830345	2.835087	2.848899
SULFUR	182.034	Axial	2.944146	0.02222101	0.03633118	0.005741261	0.02459059
THALLIUM	190.856	Axial	-0.6249267	-0.01336967	-0.01726961	-0.01156592	-0.01127348
TIN	189.989	Axial	-0.2834181	-0.002059350	-0.001560083	-0.003358529	-0.001259439
TITANIUM	334.941	Radial	-40.5871	-0.009592603	-0.01062948	-0.008685435	-0.009462893
VANADIUM	292.402	Radial	-2.75454	-0.003182625	-0.002763725	-0.004557612	-0.002226538
ZINC	206.200	Axial	30.69077	0.01422059	0.01402653	0.01396681	0.01466843

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835163-03 DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 03:20 Sequence: 327

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10997.44	10971.46	10996.40	11024.45
YTTRIUM	360.073	Axial	313919.5	311887.4	315822.2	314048.9
YTTRIUM	360.073	Radial	11960.80	11978.84	11952.09	11951.47
INDIUM	230.606	Axial	3280.793	3274.542	3281.072	3286.765

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CHROMIUM	267.716	Axial	566.3509	0.05822081	0.05822902	0.05836054	0.05807288
ALUMINUM	308.215	Radial	15.78581	0.05239744	0.05401425	0.03203364	0.07114444
ANTIMONY	206.833	Axial	0.07597356	-0.002073055	-0.001464708	-0.003669669	-0.001084789
ARSENIC	189.042	Axial	-0.3317550	0.002927608	0.002190736	0.003596084	0.002996004
BARIUM	233.527	Axial	318.9781	0.07697419	0.07529221	0.07664925	0.07898112
BERYLLIUM	313.042	Radial	-3.58236	0.0001830637	0.0002332287	0.00005086197	0.0002651004
BORON	249.678	Radial	5.747280	0.006689330	0.01034777	0.004584996	0.005135224
CADMIUM	228.802	Axial	1.049592	-0.00005573817	0.0001746295	-0.0002052913	-0.0001365527
CALCIUM	317.933	Radial	1458.862	1.951351	1.937944	1.959328	1.956780
CERIUM	535.353	Radial	357.0916	0.1274557	0.1379560	0.1370948	0.1073164
COBALT	228.616	Axial	-2.29846	0.0005798147	0.0006487681	0.0006660691	0.0004246070
COPPER	324.754	Axial	216.9723	0.0003254750	0.00004427671	0.0002131070	0.0007190413
IRON	259.940	Radial	52.76552	0.02560941	0.02765982	0.02488522	0.02428319
LANTHANUM	333.749	Radial	3.039842	0.0005837089	-0.003679001	0.003546917	0.001883210
LEAD	220.353	Axial	-1.14768	0.0004564755	0.0007194091	0.001158971	-0.0005089535
LITHIUM	670.784	Radial	13.79638	0.003533440	0.004331447	0.002563041	0.003705833
MAGNESIUM	279.079	Radial	74.82341	1.480877	1.505562	1.437824	1.499245
MANGANESE	257.610	Axial	3576.340	0.05154961	0.05120904	0.05160913	0.05183068
MOLYBDENUM	202.030	Axial	0.5623219	-0.0003925706	-0.0001998193	-0.0007742659	-0.0002036266
NICKEL	231.604	Axial	-2.77646	0.001504108	0.001524634	0.001343934	0.001643755
PHOSPHORUS	177.495	Axial	5.577448	0.04751572	0.04735498	0.04603480	0.04915738
POTASSIUM	766.490	Radial	765.5715	2.575963	2.589844	2.565707	2.572339
SELENIUM	196.090	Axial	0.7911696	0.004020617	0.01187197	0.004240672	-0.004050793
SILICON	251.611	Axial	24358.43	6.091954	6.087835	6.077402	6.110625
SILVER	328.068	Axial	104.7502	-0.00004970527	-0.0001419564	-0.0004165915	0.0004094321
SODIUM	589.592	Radial	8576.197	7.476094	7.473741	7.469106	7.485434
STRONTIUM	421.552	Radial	1897.070	0.04796640	0.04810939	0.04779349	0.04799632
SULFUR	182.034	Axial	88.84768	1.351552	1.337985	1.355464	1.361205
THALLIUM	190.856	Axial	0.8596545	0.0006250725	0.0009845228	0.006922136	-0.006031442
TIN	189.989	Axial	0.09106638	-0.0004910415	0.001639270	-0.001629568	-0.001482826
TITANIUM	334.941	Radial	0.4432053	0.0008671582	-0.0002522374	0.001202332	0.001651380
VANADIUM	292.402	Radial	-1.60680	-0.001471528	0.0002827199	0.0003111740	-0.005008479
ZINC	206.200	Axial	36.38503	0.01578690	0.01635876	0.01526626	0.01573568

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835163-04 DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 03:23 Sequence: 328

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10990.13	10955.25	11002.92	11012.24
YTTRIUM	360.073	Axial	316123.0	318385.7	314273.8	315709.6
YTTRIUM	360.073	Radial	12379.65	12315.35	12339.26	12484.34
INDIUM	230.606	Axial	3282.709	3274.661	3287.735	3285.731

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CHROMIUM	267.716	Axial	10.66566	0.0006706776	0.0007315261	0.0008163723	0.0004641344
ALUMINUM	308.215	Radial	26.68100	0.1597484	0.2016050	0.1526036	0.1250365
ANTIMONY	206.833	Axial	0.2035365	-0.001470277	0.0003225520	-0.002663482	-0.002069901
ARSENIC	189.042	Axial	-0.04546412	0.005617105	0.005285677	0.006967133	0.004598506
BARIUM	233.527	Axial	111.8785	0.02706715	0.02701991	0.02702649	0.02715507
BERYLLIUM	313.042	Radial	-14.2815	-0.0001580066	-0.0002163134	-0.0001581167	-0.00009958974
BORON	249.678	Radial	3.476554	-0.001446324	-0.001589637	-0.004778403	0.002029068
CADMIUM	228.802	Axial	2.136710	0.0001123629	0.00007432904	0.0003765343	-0.0001137747
CALCIUM	317.933	Radial	13658.96	18.53174	18.65006	18.46239	18.48277
CERIUM	535.353	Radial	337.0882	-0.01047505	-0.03057324	0.003716630	-0.004568546
COBALT	228.616	Axial	1.049693	0.001400969	0.0009352228	0.001564349	0.001703335
COPPER	324.754	Axial	285.6808	0.003034155	0.002892315	0.003189938	0.003020211
IRON	259.940	Radial	985.7716	1.833779	1.833404	1.829186	1.838747
LANTHANUM	333.749	Radial	4.542825	0.002498357	0.001484818	0.003926409	0.002083844
LEAD	220.353	Axial	-0.7326178	0.001109928	0.002790915	0.001688731	-0.001149861
LITHIUM	670.784	Radial	-3.78928	0.001182245	0.0008074438	0.001483546	0.001255746
MAGNESIUM	279.079	Radial	55.68124	1.063747	1.053467	1.049310	1.088464
MANGANESE	257.610	Axial	8103.645	0.1171672	0.1172709	0.1175235	0.1167071
MOLYBDENUM	202.030	Axial	0.7592284	-0.0001376083	-0.00008345033	-0.0001833607	-0.0001460138
NICKEL	231.604	Axial	-1.88088	0.001999581	0.001911441	0.002546883	0.001540418
PHOSPHORUS	177.495	Axial	7.492750	0.06597359	0.06071541	0.06575705	0.07144832
POTASSIUM	766.490	Radial	224.7164	0.8746387	0.8546666	0.8316974	0.9375523
SELENIUM	196.090	Axial	0.4098237	-0.0004332373	-0.0008478712	-0.009649995	0.009198155
SILICON	251.611	Axial	2688.762	0.6692694	0.6734826	0.6716491	0.6626765
SILVER	328.068	Axial	100.2625	-0.0004038183	-0.0007769278	-0.00004236901	-0.0003921581
SODIUM	589.592	Radial	1961.086	1.618354	1.620434	1.603504	1.631123
STRONTIUM	421.552	Radial	2449.484	0.05993801	0.06002653	0.05992054	0.05986695
SULFUR	182.034	Axial	15.89203	0.2190983	0.2135510	0.2341935	0.2095505
THALLIUM	190.856	Axial	1.058433	0.002385107	0.002728045	0.005361708	-0.0009344310
TIN	189.989	Axial	-0.2674555	-0.001892371	-0.0009068952	-0.003690669	-0.001079549
TITANIUM	334.941	Radial	20.80348	0.005912426	0.005568922	0.005179990	0.006988366
VANADIUM	292.402	Radial	0.05672158	0.001058587	0.001032896	0.0006344755	0.001508389
ZINC	206.200	Axial	330.5740	0.1798540	0.1795337	0.1807086	0.1793198

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835163-05 DF: 1x Batch: WG2467972 Units: mg/l
Analyzed: 03/14/25 03:26 Sequence: 329

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10736.90	10716.76	10746.64	10747.28
YTTRIUM	360.073	Axial	307704.3	308320.5	305154.2	309638.3
YTTRIUM	360.073	Radial	12224.31	12343.50	12136.30	12193.13
INDIUM	230.606	Axial	3119.305	3110.820	3125.317	3121.777

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CHROMIUM	267.716	Axial	17334.75	1.838461	1.854903	1.831309	1.829171
ALUMINUM	308.215	Radial	20.97839	0.1031998	0.1094689	0.08912997	0.1110007
ANTIMONY	206.833	Axial	-0.2336947	-0.003552020	-0.001998793	-0.007051516	-0.001605752
ARSENIC	189.042	Axial	-0.3894066	0.002297455	0.001778718	0.005102841	0.00001080710
BARIUM	233.527	Axial	488.0430	0.1205907	0.1205963	0.1206871	0.1204887
BERYLLIUM	313.042	Radial	-8.17625	0.00003596486	0.00001031086	0.0001315070	-0.00003392327
BORON	249.678	Radial	68.48936	0.2151401	0.2085456	0.2191169	0.2177578
CADMIUM	228.802	Axial	1.904862	0.00008334928	-0.0000009770310	0.0001060470	0.0001449779
CALCIUM	317.933	Radial	8439.943	11.55539	11.54440	11.59509	11.52669
CERIUM	535.353	Radial	340.9012	0.02439244	-0.02116240	0.08437319	0.009966528
COBALT	228.616	Axial	-4.38714	0.00001124554	0.00009626893	-0.00002039543	-0.00004213687
COPPER	324.754	Axial	236.9111	0.001335741	0.001288599	0.001295865	0.001422759
IRON	259.940	Radial	62.70161	0.04285916	0.04404041	0.04243174	0.04210532
LANTHANUM	333.749	Radial	2.360117	-0.0004584349	0.001080078	0.002965243	-0.005420625
LEAD	220.353	Axial	-0.06203035	0.002153832	0.001119589	0.003117405	0.002224502
LITHIUM	670.784	Radial	95.22780	0.01422864	0.01373854	0.01518464	0.01376273
MAGNESIUM	279.079	Radial	156.8669	3.041218	3.033511	3.078444	3.011700
MANGANESE	257.610	Axial	1155.031	0.01690421	0.01696127	0.01685553	0.01689582
MOLYBDENUM	202.030	Axial	3.051508	0.002915569	0.001725875	0.002867701	0.004153131
NICKEL	231.604	Axial	-3.22697	0.001162443	0.0007165085	0.0007998706	0.001970951
PHOSPHORUS	177.495	Axial	52.30463	0.5090509	0.5069617	0.5105342	0.5096568
POTASSIUM	766.490	Radial	11532.25	35.19839	35.20114	35.16753	35.22649
SELENIUM	196.090	Axial	0.6133503	0.002103581	-0.005212897	0.009199483	0.002324159
SILICON	251.611	Axial	26380.19	6.758177	6.782754	6.751899	6.739879
SILVER	328.068	Axial	101.5170	-0.0001106909	0.00009800477	-0.0002398264	-0.0001902511
SODIUM	818.326	Radial	2700.395	40.81740	40.65895	41.00351	40.78975
STRONTIUM	421.552	Radial	11361.67	0.2830274	0.2831247	0.2828426	0.2831149
SULFUR	182.034	Axial	735.1255	11.66188	11.61842	11.70550	11.66173
THALLIUM	190.856	Axial	1.145301	0.003446830	0.007907291	0.001071587	0.001361612
TIN	189.989	Axial	-0.09381339	-0.001224023	-0.001264090	-0.0004354125	-0.001972567
TITANIUM	334.941	Radial	1.638334	0.001163266	0.001478609	0.001321716	0.0006894738
VANADIUM	292.402	Radial	1.011971	0.002480708	0.002472602	-0.0002131913	0.005182712
ZINC	206.200	Axial	41.70613	0.01931557	0.01912802	0.01879251	0.02002617

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/14/25 03:29 Sequence: 330 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10466.47	10410.31	10493.62	10495.47
YTTRIUM	360.073	Axial	298630.6	299398.8	299447.2	297045.7
YTTRIUM	360.073	Radial	11979.92	12018.85	12014.54	11906.38
INDIUM	230.606	Axial	2977.606	2963.210	2981.671	2987.937

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	925.4828	9.794745	9.748333	9.832068	9.803833
ANTIMONY	206.833	Axial	101.7400	0.4995710	0.5071282	0.4957037	0.4958811
ARSENIC	189.042	Axial	102.1133	1.013956	1.020713	1.009958	1.011195
BARIUM	233.527	Axial	2054.330	0.5204646	0.5210545	0.5206399	0.5196995
BERYLLIUM	313.042	Radial	6072.762	0.2025891	0.2023574	0.2024304	0.2029794
BORON	249.678	Radial	286.5443	0.9603394	0.9604119	0.9659882	0.9546180
CADMIUM	228.802	Axial	3076.223	0.4996332	0.5001190	0.4999279	0.4988527
CALCIUM	373.690	Radial	22767.98	53.15318	53.05482	53.14406	53.26067
CHROMIUM	267.716	Axial	9598.625	1.044117	1.050180	1.038003	1.044169
COBALT	228.616	Axial	3626.767	0.9822091	0.9839626	0.9836174	0.9790473
COPPER	324.754	Axial	24942.33	1.022008	1.026013	1.019051	1.020961
IRON	259.940	Radial	4991.909	9.936710	9.902982	9.947471	9.959676
LEAD	220.353	Axial	284.7217	0.4948562	0.4957441	0.4952052	0.4936193
LITHIUM	670.784	Radial	7621.102	1.026502	1.023890	1.023618	1.031999
MAGNESIUM	279.079	Radial	488.5783	9.672270	9.615441	9.679473	9.721896
MANGANESE	257.610	Axial	67513.81	1.026731	1.033584	1.022391	1.024217
MOLYBDENUM	202.030	Axial	189.3135	0.2556918	0.2552308	0.2562910	0.2555537
NICKEL	231.604	Axial	1629.297	0.9952986	0.9986049	0.9946531	0.9926379
PHOSPHORUS	177.495	Axial	96.77750	0.9717115	0.9716154	0.9737921	0.9697270
POTASSIUM	766.490	Radial	16083.33	50.00586	49.82116	50.01932	50.17710
SELENIUM	196.090	Axial	79.95908	0.9731694	0.9680909	0.9702321	0.9811851
SILICON	251.611	Axial	7702.110	2.021249	2.014812	2.021377	2.027557
SILVER	328.068	Axial	6355.194	0.5262874	0.5269828	0.5249396	0.5269398
SODIUM	818.326	Radial	3318.995	50.75023	50.52476	51.14516	50.58078
STRONTIUM	421.552	Radial	40651.31	1.034380	1.032995	1.034131	1.036015
SULFUR	182.034	Axial	291.2839	4.723766	4.716127	4.732570	4.722602
THALLIUM	190.856	Axial	111.3007	1.059799	1.055719	1.049681	1.073996
TIN	189.989	Axial	127.0290	0.5201368	0.5256736	0.5207207	0.5140161
TITANIUM	334.941	Radial	3894.392	0.9998051	0.9976552	0.9952547	1.006505
VANADIUM	292.402	Radial	654.2026	0.9957166	0.9930407	0.9921413	1.001968
ZINC	206.200	Axial	1779.052	1.037245	1.041032	1.036422	1.034281
CERIUM	535.353	Radial	348.7518	0.08844250	0.07377792	0.09053423	0.1010153
HOT WATER SOL. BORON	249.678	Radial	286.5443	0.9603394	0.9604119	0.9659882	0.9546180
LANTHANUM	333.749	Radial	2.787780	0.0002227782	-0.00003179707	-0.001734820	0.002434951

Sample ID: CCB Units: mg/l
Analyzed: 03/14/25 03:32 Sequence: 331

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10947.84	10985.14	10921.64	10936.75
YTTRIUM	360.073	Axial	315801.5	316917.8	316248.0	314238.5
YTTRIUM	360.073	Radial	12268.24	12247.13	12335.65	12221.94
INDIUM	230.606	Axial	3327.604	3343.927	3317.264	3321.621

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	12.04245	0.009053597	0.03993942	-0.01291748	0.0001388557
ANTIMONY	206.833	Axial	0.4539311	-0.0002835160	-0.003426195	-0.00009940677	0.002675054
ARSENIC	189.042	Axial	0.2663007	0.008562969	0.005458536	0.01036524	0.009865131
BARIUM	233.527	Axial	2.604989	0.0007088696	0.0002614508	0.0003897934	0.001475365
BERYLLIUM	313.042	Radial	-9.64176	-0.00001088727	-0.00006770888	-0.00003547843	0.00007052551
BORON	249.678	Radial	4.882968	0.003346324	0.01120741	-0.001871628	0.0007031958
CADMIUM	228.802	Axial	5.511009	0.0006385660	0.00008484640	0.0005138378	0.001317014
CALCIUM	317.933	Radial	74.58057	-0.006628015	-0.007489938	-0.006417065	-0.005977041
CERIUM	535.353	Radial	346.1900	0.04158257	0.09949538	0.004675310	0.02057701
CHROMIUM	267.716	Axial	5.675926	0.0001557525	0.0002477648	0.0005935604	-0.0003740676
COBALT	228.616	Axial	2.599258	0.001775076	0.0007745914	0.001113672	0.003436963
COPPER	324.754	Axial	216.9433	0.0003636154	0.0002220066	0.0001221213	0.0007467182
HOT WATER SOL. BORON	249.678	Radial	4.882968	0.003346324	0.01120741	-0.001871628	0.0007031958
IRON	259.940	Radial	42.45999	0.002759148	0.003892726	0.002652305	0.001732413
LANTHANUM	333.749	Radial	6.298259	0.004977326	0.003828783	0.007848113	0.003255081
LEAD	220.353	Axial	-0.2791019	0.001827903	0.0008804233	0.001871293	0.002731991
LITHIUM	670.784	Radial	-2.39310	0.001363242	0.0008894970	0.0009457622	0.002254468
MAGNESIUM	279.079	Radial	0.9436443	0.01504433	0.03497030	0.01121265	-0.001049949
MANGANESE	257.610	Axial	28.22778	0.0001883015	0.0001729142	0.0001972101	0.0001947804
MOLYBDENUM	202.030	Axial	1.260513	0.0005163895	0.0004507264	0.0006888270	0.0004096152
NICKEL	231.604	Axial	-1.34092	0.002309856	0.001412515	0.001823626	0.003693427
PHOSPHORUS	177.495	Axial	0.4637974	-0.001644850	0.003837529	-0.004064036	-0.004708042
POTASSIUM	766.490	Radial	-54.6793	0.03621748	0.06850785	0.01225595	0.02788863
SELENIUM	196.090	Axial	0.7147212	0.003153742	0.002304858	-0.002853107	0.01000947
SILICON	251.611	Axial	26.29523	0.002525492	0.0004502508	0.003120508	0.004005718
SILVER	328.068	Axial	110.1364	0.0004216880	0.0007463096	0.0007389651	-0.0002202106
SODIUM	589.592	Radial	81.22552	0.02668769	0.01163241	0.03372767	0.03470300
STRONTIUM	421.552	Radial	16.79344	0.00001674911	-0.00008739834	0.0001121594	0.00002548631
SULFUR	182.034	Axial	2.016679	0.003672224	0.0003504240	0.002563492	0.008102755
THALLIUM	190.856	Axial	0.6202940	-0.001577650	-0.0007527661	-0.003991743	0.00001155812
TIN	189.989	Axial	0.3836348	0.0006568592	-0.0005741208	0.0002409817	0.002303717
TITANIUM	334.941	Radial	-3.02315	-0.000008017972	-0.001002643	0.001229620	-0.0002510307
VANADIUM	292.402	Radial	-1.54820	-0.001324395	-0.003181505	-0.00008648929	-0.0007051924
ZINC	206.200	Axial	7.185696	-0.0004659867	-0.001648162	-0.0006778120	0.0009280141

Sample ID: ICSA Units: mg/l
Analyzed: 03/14/25 04:59 Sequence: 361 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9459.712	9419.331	9462.356	9497.449
YTTRIUM	360.073	Axial	267282.2	268779.2	266576.3	266491.2
YTTRIUM	360.073	Radial	11416.50	11356.41	11385.51	11507.58
INDIUM	230.606	Axial	2489.414	2480.347	2486.212	2501.682

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	44162.84	496.2043	498.0185	496.3872	494.2072
ANTIMONY	206.833	Axial	0.06517486	-0.002086477	-0.006338370	-0.003007664	0.003086604
ARSENIC	189.042	Axial	-1.72170	-0.01279534	-0.02864820	-0.007953564	-0.001784264
BARIUM	233.527	Axial	9.066165	0.002619021	0.002848014	0.002550817	0.002458232
BERYLLIUM	313.042	Radial	-13.0488	-0.0001536712	-0.0002818631	-0.00004548450	-0.0001336661
BORON	249.678	Radial	-2.66281	-0.02232949	-0.01479597	-0.02607637	-0.02611615
CADMIUM	228.802	Axial	5.958629	0.0008528613	0.0007132187	0.001086851	0.0007585145
CALCIUM	373.690	Radial	209681.9	514.1431	516.4291	515.0453	510.9548
CERIUM	535.353	Radial	312.8813	-0.001063017	-0.008440019	0.03308023	-0.02782926
CHROMIUM	267.716	Axial	-21.1276	-0.002979033	-0.003218608	-0.002755268	-0.002963224
COBALT	228.616	Axial	1.378923	0.001592390	0.002232000	0.001803821	0.0007413483
COPPER	324.754	Axial	-154.493	-0.01526291	-0.01502115	-0.01558884	-0.01517874
HOT WATER SOL. BORON	249.678	Radial	-2.66281	-0.02232949	-0.01479597	-0.02607637	-0.02611615
IRON	271.441	Radial	4717.019	195.2338	195.6061	195.8858	194.2094
LANTHANUM	333.749	Radial	-4.54898	-0.01051636	-0.01730214	-0.004234257	-0.01001268
LEAD	220.353	Axial	-5.02271	-0.008125236	-0.004137170	-0.008405661	-0.01183288
LITHIUM	670.784	Radial	0.6113202	0.001764170	0.001439917	0.002738926	0.001113669
MAGNESIUM	279.079	Radial	24197.86	502.8524	505.1656	504.6870	498.7046
MANGANESE	257.610	Axial	122.0160	0.001831310	0.001852582	0.001822453	0.001818896
MOLYBDENUM	202.030	Axial	1.612647	0.001297667	-0.0002030673	0.001213488	0.002882580
NICKEL	231.604	Axial	-16.1874	-0.008751665	-0.007713871	-0.009689404	-0.008851721
PHOSPHORUS	177.495	Axial	1.789261	0.01388616	0.01270111	0.01607406	0.01288331
POTASSIUM	766.490	Radial	-42.2562	0.06423015	0.08206025	0.05112213	0.05950807
SELENIUM	196.090	Axial	-0.6281084	-0.01369754	-0.008940407	-0.01487271	-0.01727951
SILICON	251.611	Axial	-82.4353	-0.02807171	-0.02701026	-0.02961344	-0.02759145
SILVER	328.068	Axial	80.56278	-0.0009368740	-0.0008225412	-0.0007460161	-0.001242065
SODIUM	589.592	Radial	144.4824	0.08994594	0.08386688	0.08774594	0.09822500
STRONTIUM	421.552	Radial	250.3216	0.006285589	0.006180904	0.006322219	0.006353643
SULFUR	182.034	Axial	-8.17376	-0.1753231	-0.1828431	-0.1712016	-0.1719246
THALLIUM	190.856	Axial	-0.7256069	-0.01496721	-0.01789801	-0.01129652	-0.01570710
TIN	189.989	Axial	-1.24491	-0.006505654	-0.007295710	-0.01098803	-0.001233224
TITANIUM	334.941	Radial	-64.9221	-0.01672634	-0.01714006	-0.01685812	-0.01618084
VANADIUM	292.402	Radial	-3.25292	-0.004223551	-0.003169621	-0.008404249	-0.001096783
ZINC	206.200	Axial	25.38983	0.01195954	0.01258410	0.01095897	0.01233554

Sample ID: ICSAB Units: mg/l
Analyzed: 03/14/25 05:02 Sequence: 362 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9491.022	9466.430	9527.371	9479.265
YTTRIUM	360.073	Axial	268040.5	269391.0	267729.3	267001.3
YTTRIUM	360.073	Radial	11538.46	11588.50	11564.30	11462.59
INDIUM	230.606	Axial	2485.753	2481.560	2489.607	2486.092

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	45305.48	503.6545	503.8469	503.6634	503.4531
ANTIMONY	206.833	Axial	90.81742	0.4916988	0.4921689	0.4994994	0.4834280
ARSENIC	189.042	Axial	45.20825	0.4981194	0.5026190	0.5033775	0.4883618
BARIUM	233.527	Axial	1822.193	0.5091040	0.5122310	0.5073439	0.5077369
BERYLLIUM	313.042	Radial	14051.31	0.4862593	0.4876377	0.4857619	0.4853783
BORON	249.678	Radial	274.8292	0.9562393	0.9740548	0.9481706	0.9464925
CADMIUM	228.802	Axial	5779.797	1.035464	1.039051	1.029862	1.037479
CALCIUM	373.690	Radial	214822.3	521.1701	520.9439	520.3660	522.2002
CERIUM	535.353	Radial	311.9765	-0.02026544	-0.06829958	-0.03477533	0.04227860
CHROMIUM	267.716	Axial	4107.426	0.4924890	0.4966839	0.4879823	0.4928007
COBALT	228.616	Axial	1495.949	0.4858767	0.4872271	0.4861092	0.4842938
COPPER	324.754	Axial	11711.60	0.5252423	0.5259421	0.5241903	0.5255945
HOT WATER SOL. BORON	249.678	Radial	274.8292	0.9562393	0.9740548	0.9481706	0.9464925
IRON	271.441	Radial	4833.425	197.9350	197.8831	197.2647	198.6570
LANTHANUM	333.749	Radial	-6.68805	-0.01359800	-0.01088635	-0.01333907	-0.01656859
LEAD	220.353	Axial	468.0604	0.9722736	0.9671921	0.9774601	0.9721686
LITHIUM	670.784	Radial	8.148092	0.002810003	0.003070620	0.003664030	0.001695360
MAGNESIUM	279.079	Radial	24800.41	509.9164	508.5656	509.2499	511.9337
MANGANESE	257.610	Axial	29277.03	0.4908768	0.4942462	0.4886886	0.4896957
MOLYBDENUM	202.030	Axial	329.7356	0.4921550	0.4929324	0.4911427	0.4923899
NICKEL	231.604	Axial	1331.409	0.9743154	0.9758824	0.9726150	0.9744488
PHOSPHORUS	177.495	Axial	2.012971	0.01631892	0.01778597	0.01343462	0.01773616
POTASSIUM	766.490	Radial	-37.0343	0.08242510	0.07932762	0.09078522	0.07716247
SELENIUM	196.090	Axial	36.76837	0.4909211	0.4791815	0.4964123	0.4971695
SILICON	251.611	Axial	3379.355	0.9758864	0.9794751	0.9734384	0.9747458
SILVER	328.068	Axial	8866.064	0.8142002	0.8133747	0.8246470	0.8045790
SODIUM	589.592	Radial	163.9013	0.1062749	0.09873453	0.09886537	0.1212248
STRONTIUM	421.552	Radial	255.4171	0.006349711	0.006326604	0.006447694	0.006274835
SULFUR	182.034	Axial	-7.98748	-0.1714899	-0.1710351	-0.1595095	-0.1839251
THALLIUM	190.856	Axial	44.04332	0.4631741	0.4739836	0.4505941	0.4649447
TIN	189.989	Axial	104.7044	0.4726930	0.4714348	0.4750091	0.4716352
TITANIUM	334.941	Radial	1760.567	0.4696673	0.4710330	0.4695435	0.4684255
VANADIUM	292.402	Radial	300.0924	0.4747425	0.4727105	0.4721918	0.4793254
ZINC	206.200	Axial	1490.055	0.9576966	0.9631063	0.9519771	0.9580065

Sample ID: CALBLK Units: mg/l
Analyzed: 03/18/25 06:03 Sequence: 2 Standard ID: 25C17417

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12722.43	12721.57	12741.94	12703.78
YTTRIUM	360.073	Axial	193783.6	193522.9	194505.9	193322.0
YTTRIUM	360.073	Radial	2599.477	2637.958	2583.412	2577.061
INDIUM	230.606	Axial	5283.937	5271.086	5289.780	5290.946

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	5.728287	5.386888	5.426292	6.371682
ANTIMONY	206.833	Axial	1.132226	0.9669885	1.164761	1.264928
ARSENIC	189.042	Axial	0.1367361	-0.3095002	0.4196626	0.3000460
BARIUM	233.527	Axial	-7.67546	-8.677458	-6.867851	-7.481077
BERYLLIUM	313.042	Radial	2.166306	1.999667	3.832695	0.6665556
BORON	249.678	Radial	0.08331945	0.4721435	0.02777315	-0.2499583
CADMIUM	228.802	Axial	-11.2493	-13.53733	-10.12088	-10.08972
CALCIUM	317.933	Radial	117.3508	116.9250	117.2305	117.8970
CALCIUM	373.690	Radial	7.165472	4.624229	12.70622	4.165972
CERIUM	535.353	Radial	30.71710	35.11915	33.57774	23.45442
CHROMIUM	267.716	Axial	-8.62943	-6.606282	-9.953357	-9.328669
COBALT	228.616	Axial	-2.37590	-4.210672	-1.035748	-1.881286
COPPER	324.754	Axial	39.33688	42.17686	39.32037	36.51340
IRON	259.940	Radial	0.5415764	0.9165139	-0.3332778	1.041493
IRON	271.441	Radial	1.708049	3.749375	0.3332778	1.041493
LANTHANUM	333.749	Radial	1.138699	1.694162	0.2777315	1.444204
LEAD	220.353	Axial	-1.84693	-2.033856	-2.097921	-1.409017
LITHIUM	670.784	Radial	10.67878	5.165806	10.08165	16.78887
MAGNESIUM	279.079	Radial	-1.99966	-1.958007	-3.166139	-0.8748542
MANGANESE	257.610	Axial	-0.8156435	-4.362639	-3.456605	5.372314
MOLYBDENUM	202.030	Axial	-0.3737164	-0.2998001	0.06665186	-0.8880009
NICKEL	231.604	Axial	10.78531	10.68396	10.31914	11.35284
PHOSPHORUS	177.495	Axial	-0.4009076	-0.7266619	-0.2825832	-0.1934777
POTASSIUM	766.490	Radial	-47.6448	-44.82586	-60.86486	-37.24379
SELENIUM	196.090	Axial	1.057987	1.505577	-0.2537307	1.922115
SILICON	251.611	Axial	34.99668	27.94783	41.03298	36.00922
SILVER	328.068	Axial	-13.2185	-14.63913	-13.00274	-12.01367
SODIUM	589.592	Radial	-2.80508	-9.040160	-2.332945	2.957840
SODIUM	818.326	Radial	84.55535	80.27829	88.23529	85.15247
STRONTIUM	421.552	Radial	7.415431	5.457424	9.248459	7.540410
SULFUR	182.034	Axial	1.613775	0.7402472	1.895875	2.205202
THALLIUM	190.856	Axial	0.07448409	0.2979200	0.1598737	-0.2343415
TIN	189.989	Axial	0.5829142	0.7394205	1.081870	-0.07254786
TITANIUM	334.941	Radial	0.8887408	2.055213	-0.2221852	0.8331945
VANADIUM	292.402	Radial	-0.3888241	-0.7082153	-0.5832361	0.1249792
ZINC	206.200	Axial	102.6095	102.6538	102.5994	102.5752

Sample ID: STD1 Units: mg/l
Analyzed: 03/18/25 06:06 Sequence: 3 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12854.35	12870.56	12868.86	12823.65
YTTRIUM	360.073	Axial	195080.6	193382.3	195217.2	196642.4
YTTRIUM	360.073	Radial	2619.221	2634.348	2595.308	2628.006
INDIUM	230.606	Axial	5287.684	5285.241	5292.221	5285.591

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	12.58427	12.26292	11.19887	14.29102
ANTIMONY	206.833	Axial	4.943239	5.892751	3.764334	5.172632
ARSENIC	189.042	Axial	2.079556	2.454474	2.346577	1.437618
BARIUM	233.527	Axial	22.08988	23.49321	21.59698	21.17946
BERYLLIUM	313.042	Radial	24.60701	27.32878	22.49625	23.99600
BORON	249.678	Radial	9.766891	10.30384	9.165139	9.831695
CADMIUM	228.802	Axial	10.79125	13.72447	9.103298	9.545975
CALCIUM	317.933	Radial	316.0214	314.8920	316.6694	316.5028
CHROMIUM	267.716	Axial	123.0652	122.3989	123.8131	122.9835
COBALT	228.616	Axial	52.24468	54.69982	50.70648	51.32775
COPPER	324.754	Axial	238.2209	241.0007	238.4231	235.2388
IRON	259.940	Radial	15.34466	15.74738	14.49758	15.78904
LEAD	220.353	Axial	0.7980431	0.2227259	1.343601	0.8278025
LITHIUM	670.784	Radial	95.01194	101.4414	91.77637	91.81803
MAGNESIUM	279.079	Radial	17.91368	17.33044	17.74704	18.66356
MANGANESE	257.610	Axial	669.3088	670.2597	664.0013	673.6654
MOLYBDENUM	202.030	Axial	10.12312	10.70319	9.649512	10.01664
NICKEL	231.604	Axial	29.23512	29.08391	30.30594	28.31551
PHOSPHORUS	177.495	Axial	6.598723	6.544175	6.351988	6.900007
POTASSIUM	766.490	Radial	192.7040	187.9687	177.0955	213.0478
SELENIUM	196.090	Axial	2.865384	2.742152	3.322533	2.531465
SILICON	251.611	Axial	653.4208	648.8703	644.6194	666.7728
SILVER	328.068	Axial	73.43555	69.62984	76.00499	74.67181
SODIUM	589.592	Radial	719.7967	712.4229	718.3386	728.6286
STRONTIUM	421.552	Radial	243.2234	243.9593	241.5014	244.2093
SULFUR	182.034	Axial	65.51062	65.49098	66.38568	64.65520
THALLIUM	190.856	Axial	1.841317	2.043247	1.666913	1.813790
TIN	189.989	Axial	24.37412	25.91189	23.69335	23.51712
TITANIUM	334.941	Radial	36.54021	38.02144	34.68866	36.91051
VANADIUM	292.402	Radial	2.909237	1.478920	2.728712	4.520080
ZINC	206.200	Axial	328.3506	331.2999	326.3421	327.4099

Sample ID: STD2 Units: mg/l
Analyzed: 03/18/25 06:08 Sequence: 4 Standard ID: 25C18567

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12812.01	12842.30	12794.94	12798.78
YTTRIUM	360.073	Axial	193762.5	194996.1	191823.2	194468.2
YTTRIUM	360.073	Radial	2628.494	2632.746	2634.968	2617.767
INDIUM	230.606	Axial	5199.670	5221.941	5192.783	5184.287

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	70.91831	70.64001	72.29023	69.82471
ANTIMONY	206.833	Axial	40.42702	39.85800	41.48116	39.94190
ARSENIC	189.042	Axial	45.88537	45.45788	46.12518	46.07305
BARIUM	233.527	Axial	548.4499	551.7773	548.4823	545.0899
BERYLLIUM	313.042	Radial	487.7520	490.7515	487.5021	485.0025
CADMIUM	228.802	Axial	1065.011	1072.849	1066.077	1056.107
CALCIUM	317.933	Radial	2090.540	2095.956	2085.708	2089.957
CHROMIUM	267.716	Axial	2502.714	2508.890	2504.365	2494.887
COBALT	228.616	Axial	1048.197	1053.848	1050.001	1040.743
COPPER	324.754	Axial	3660.498	3661.922	3664.035	3655.537
IRON	259.940	Radial	281.5503	278.6202	280.4116	285.6191
LEAD	220.353	Axial	56.33501	57.05760	56.74524	55.20218
LITHIUM	670.784	Radial	946.7311	956.7572	934.9275	948.5086
MAGNESIUM	279.079	Radial	37.86869	34.41093	40.49325	38.70188
MANGANESE	257.610	Axial	12399.78	12427.59	12389.76	12381.98
MOLYBDENUM	202.030	Axial	99.41525	98.63379	100.1555	99.45652
NICKEL	231.604	Axial	353.1675	354.6773	353.6593	351.1658
PHOSPHORUS	177.495	Axial	14.96378	14.76767	15.56952	14.55416
POTASSIUM	766.490	Radial	2348.220	2365.772	2346.526	2332.361
SELENIUM	196.090	Axial	35.11495	34.53686	35.85959	34.94841
SILICON	251.611	Axial	1216.638	1212.447	1216.061	1221.405
SILVER	328.068	Axial	1632.184	1642.379	1625.316	1628.858
SODIUM	589.592	Radial	7243.876	7267.622	7225.379	7238.627
STRONTIUM	421.552	Radial	4765.178	4775.829	4763.331	4756.374
THALLIUM	190.856	Axial	43.15430	41.76294	43.60015	44.09980
TIN	189.989	Axial	46.88052	46.09852	47.07822	47.46480
TITANIUM	334.941	Radial	146.3275	145.1702	148.8085	145.0036
VANADIUM	292.402	Radial	32.33489	30.82820	31.72388	34.45259
ZINC	206.200	Axial	1009.957	1015.906	1012.092	1001.874

Sample ID: STD3 Units: mg/l
Analyzed: 03/18/25 06:11 Sequence: 5 Standard ID: 25C18568

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12717.86	12677.63	12722.77	12753.19
YTTRIUM	360.073	Axial	191889.3	190734.5	192461.4	192472.1
YTTRIUM	360.073	Radial	2619.400	2611.102	2615.375	2631.723
INDIUM	230.606	Axial	5093.109	5062.416	5099.959	5116.952

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	138.3299	140.6554	135.5627	138.7715
ANTIMONY	206.833	Axial	79.44936	78.54952	80.67261	79.12595
ARSENIC	189.042	Axial	92.75270	92.93454	92.08465	93.23891
BARIUM	233.527	Axial	1106.952	1107.949	1109.757	1103.151
BERYLLIUM	313.042	Radial	980.7365	973.3389	975.6118	993.2590
BORON	249.678	Radial	20.33865	22.45293	19.94895	18.61407
CADMIUM	228.802	Axial	2157.442	2165.144	2162.031	2145.152
CALCIUM	317.933	Radial	4089.253	4073.477	4072.471	4121.810
CHROMIUM	267.716	Axial	5012.857	5011.347	5016.872	5010.353
COBALT	228.616	Axial	2090.612	2102.600	2092.591	2076.646
COPPER	324.754	Axial	7185.137	7183.095	7171.501	7200.815
IRON	259.940	Radial	563.7938	561.8771	561.2202	568.2840
LEAD	220.353	Axial	112.1582	111.6701	111.2359	113.5685
LITHIUM	670.784	Radial	1918.574	1918.522	1908.815	1928.387
MAGNESIUM	279.079	Radial	76.53068	77.94850	74.28833	77.35519
MANGANESE	257.610	Axial	24719.74	24760.76	24654.81	24743.64
MOLYBDENUM	202.030	Axial	200.5997	201.2331	202.0651	198.5010
NICKEL	231.604	Axial	682.4167	680.6722	687.7481	678.8299
PHOSPHORUS	177.495	Axial	30.11511	29.57243	30.91074	29.86217
POTASSIUM	766.490	Radial	4762.357	4751.412	4747.961	4787.700
SELENIUM	196.090	Axial	68.36449	68.55669	68.43606	68.10072
SILICON	251.611	Axial	2458.230	2445.363	2446.562	2482.764
SILVER	328.068	Axial	3287.223	3270.131	3285.322	3306.216
SODIUM	589.592	Radial	13994.85	13964.04	13935.66	14084.85
STRONTIUM	421.552	Radial	9249.795	9220.889	9211.545	9316.952
SULFUR	182.034	Axial	129.5085	130.6302	128.9886	128.9067
THALLIUM	190.856	Axial	84.43142	85.40648	83.71463	84.17316
TIN	189.989	Axial	95.45147	95.31480	95.80610	95.23351
TITANIUM	334.941	Radial	295.1859	294.4075	297.3198	293.8304
VANADIUM	292.402	Radial	67.39555	69.06146	66.17280	66.95240
ZINC	206.200	Axial	1870.328	1875.872	1871.866	1863.247

Sample ID: STD4 Units: mg/l
Analyzed: 03/18/25 06:14 Sequence: 6 Standard ID: 25C18569

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12530.55	12529.69	12544.22	12517.74
YTTRIUM	360.073	Axial	188061.8	186658.6	187756.6	189770.2
YTTRIUM	360.073	Radial	2617.349	2582.778	2626.229	2643.040
INDIUM	230.606	Axial	4884.516	4879.947	4882.549	4891.052

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	340.9554	340.3173	341.8828	340.6662
ANTIMONY	206.833	Axial	197.0502	198.8462	195.9141	196.3903
ARSENIC	189.042	Axial	233.1085	233.1304	232.7919	233.4032
BARIUM	233.527	Axial	2735.602	2736.749	2733.235	2736.822
BERYLLIUM	313.042	Radial	2423.595	2427.989	2406.349	2436.448
BORON	249.678	Radial	54.59915	54.91730	53.79659	55.08357
CADMIUM	228.802	Axial	5296.738	5305.222	5301.485	5283.507
CALCIUM	317.933	Radial	9654.476	9658.952	9633.089	9671.387
CALCIUM	373.690	Radial	8986.034	8983.433	8966.922	9007.746
CHROMIUM	267.716	Axial	12356.95	12392.24	12345.92	12332.69
COBALT	228.616	Axial	5146.384	5153.073	5158.460	5127.618
COPPER	324.754	Axial	17684.62	17640.41	17692.59	17720.84
IRON	259.940	Radial	1406.304	1399.517	1415.889	1403.507
IRON	271.441	Radial	98.18184	96.77822	98.56691	99.20040
LEAD	220.353	Axial	273.1094	271.7965	274.4938	273.0380
LITHIUM	670.784	Radial	4806.019	4766.359	4818.280	4833.417
MAGNESIUM	279.079	Radial	190.2139	189.8518	191.1348	189.6552
MANGANESE	257.610	Axial	60783.22	60812.88	60814.31	60722.48
MOLYBDENUM	202.030	Axial	498.0461	500.2106	496.3255	497.6021
NICKEL	231.604	Axial	1665.443	1673.742	1667.572	1655.015
PHOSPHORUS	177.495	Axial	77.44130	77.77433	77.72296	76.82662
POTASSIUM	766.490	Radial	11664.71	11662.55	11636.64	11694.94
SELENIUM	196.090	Axial	170.7609	169.8158	171.1766	171.2905
SILICON	251.611	Axial	6270.633	6245.432	6262.547	6303.920
SILVER	328.068	Axial	8111.091	8098.029	8134.576	8100.668
SODIUM	589.592	Radial	34893.96	34912.55	34791.24	34978.09
SODIUM	818.326	Radial	1706.373	1693.973	1699.008	1726.137
STRONTIUM	421.552	Radial	23063.60	23007.66	23050.87	23132.27
SULFUR	182.034	Axial	323.4533	323.0241	323.1720	324.1637
THALLIUM	190.856	Axial	203.2028	203.2625	202.5017	203.8442
TIN	189.989	Axial	234.3826	233.6786	235.0763	234.3928
TITANIUM	334.941	Radial	745.0400	745.8097	748.2364	741.0739
VANADIUM	292.402	Radial	166.5607	164.2316	167.2013	168.2492
ZINC	206.200	Axial	4494.769	4513.469	4492.718	4478.119

Sample ID: STD5 Units: mg/l
Analyzed: 03/18/25 06:16 Sequence: 7 Standard ID: 25C18570

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12278.56	12289.16	12245.34	12301.19
YTTRIUM	360.073	Axial	184254.8	183791.3	184908.0	184065.2
YTTRIUM	360.073	Radial	2596.231	2586.236	2622.815	2579.643
INDIUM	230.606	Axial	4683.670	4663.545	4671.918	4715.548

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	653.8558	647.2985	658.7730	655.4959
ANTIMONY	206.833	Axial	381.5269	380.6616	379.0410	384.8780
ARSENIC	189.042	Axial	448.9698	450.3027	446.0411	450.5654
BARIUM	233.527	Axial	5045.804	5065.632	5031.557	5040.224
BERYLLIUM	313.042	Radial	4670.637	4686.190	4653.226	4672.494
BORON	249.678	Radial	104.0205	103.8547	105.3098	102.8971
CADMIUM	228.802	Axial	10110.26	10149.11	10071.76	10109.91
CALCIUM	373.690	Radial	16879.24	16864.23	16824.78	16948.72
CHROMIUM	267.716	Axial	23278.45	23305.31	23246.13	23283.93
COBALT	228.616	Axial	9662.793	9706.598	9645.530	9636.252
COPPER	324.754	Axial	34042.59	34052.51	33950.39	34124.87
IRON	271.441	Radial	189.1298	188.1864	188.3522	190.8508
LEAD	220.353	Axial	515.6240	516.5176	513.2283	517.1262
LITHIUM	670.784	Radial	9315.858	9318.927	9262.221	9366.425
MAGNESIUM	279.079	Radial	361.7184	363.5607	356.7093	364.8851
MANGANESE	257.610	Axial	115370.8	115630.8	114869.1	115612.3
MOLYBDENUM	202.030	Axial	945.8967	946.8878	941.8953	948.9069
NICKEL	231.604	Axial	3132.882	3152.820	3124.894	3120.931
PHOSPHORUS	177.495	Axial	149.3940	150.6574	148.7518	148.7728
POTASSIUM	766.490	Radial	22653.83	22661.56	22604.84	22695.10
SELENIUM	196.090	Axial	326.5586	326.6975	325.5391	327.4393
SILICON	251.611	Axial	12200.20	12123.59	12180.04	12296.96
SILVER	328.068	Axial	15170.03	15259.53	15191.10	15059.46
SODIUM	818.326	Radial	3199.923	3207.820	3181.077	3210.872
STRONTIUM	421.552	Radial	44346.63	44408.61	44069.46	44561.81
SULFUR	182.034	Axial	628.8483	631.3029	625.2046	630.0374
THALLIUM	190.856	Axial	384.4509	389.3297	380.8023	383.2206
TIN	189.989	Axial	441.8055	442.5090	439.0047	443.9029
TITANIUM	334.941	Radial	1438.501	1438.297	1457.599	1419.608
VANADIUM	292.402	Radial	320.2227	320.1955	321.3959	319.0768
ZINC	206.200	Axial	8412.768	8429.191	8412.443	8396.671

Sample ID: STD6 Units: mg/l
Analyzed: 03/18/25 06:19 Sequence: 8 Standard ID: 25C18571

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11896.41	11902.83	11892.47	11893.94
YTTRIUM	360.073	Axial	176534.0	176154.2	176872.4	176575.5
YTTRIUM	360.073	Radial	2556.032	2521.608	2559.054	2587.434
INDIUM	230.606	Axial	4405.065	4409.001	4418.186	4388.008

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1273.401	1258.003	1271.475	1290.724
ANTIMONY	206.833	Axial	741.7809	740.7869	743.9391	740.6166
ARSENIC	189.042	Axial	850.9992	852.9952	852.9351	847.0673
BARIUM	233.527	Axial	9520.985	9554.391	9539.373	9469.190
BERYLLIUM	313.042	Radial	9090.279	8985.169	9091.460	9194.209
BORON	249.678	Radial	204.3572	203.9938	201.8885	207.1892
CADMIUM	228.802	Axial	19403.64	19434.95	19475.92	19300.06
CALCIUM	373.690	Radial	32648.58	32393.10	32671.33	32881.30
CERIUM	535.353	Radial	1290.374	1279.912	1292.532	1298.677
CHROMIUM	267.716	Axial	44020.64	44014.72	44069.24	43977.95
COBALT	228.616	Axial	18160.99	18203.07	18210.51	18069.40
COPPER	324.754	Axial	66059.62	65950.51	66194.55	66033.80
IRON	271.441	Radial	361.8337	357.4821	358.4482	369.5706
LANTHANUM	333.749	Radial	2560.492	2536.577	2563.576	2581.322
LEAD	220.353	Axial	977.0896	980.7873	981.2710	969.2104
LITHIUM	670.784	Radial	18242.66	18061.16	18235.09	18431.73
MAGNESIUM	279.079	Radial	707.9515	699.5501	710.5416	713.7627
MANGANESE	257.610	Axial	218141.6	217801.3	218421.7	218201.9
MOLYBDENUM	202.030	Axial	1805.699	1812.314	1810.169	1794.615
NICKEL	231.604	Axial	5896.112	5906.738	5918.498	5863.101
PHOSPHORUS	177.495	Axial	292.5447	293.6978	292.2657	291.6707
POTASSIUM	766.490	Radial	44779.53	44409.52	44826.05	45103.01
SELENIUM	196.090	Axial	628.0778	628.4479	630.6520	625.1335
SILICON	251.611	Axial	24017.15	23723.74	24077.04	24250.68
SILVER	328.068	Axial	29241.38	29181.09	29309.74	29233.30
SODIUM	818.326	Radial	6184.956	6130.520	6208.631	6215.718
STRONTIUM	421.552	Radial	86952.99	86033.54	87090.80	87734.65
SULFUR	182.034	Axial	1237.492	1236.906	1239.950	1235.621
THALLIUM	190.856	Axial	721.8177	727.5211	716.2970	721.6351
TIN	189.989	Axial	840.0640	845.0237	838.1301	837.0382
TITANIUM	334.941	Radial	2797.078	2783.564	2800.299	2807.372
VANADIUM	292.402	Radial	629.1704	622.9170	630.3996	634.1945
ZINC	206.200	Axial	15797.45	15822.58	15816.39	15753.38

Sample ID: STD7 Units: mg/l
Analyzed: 03/18/25 06:22 Sequence: 9 Standard ID: 25C09297

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11274.83	11280.88	11242.55	11301.07
YTTRIUM	360.073	Axial	166533.4	166715.1	166791.8	166093.3
YTTRIUM	360.073	Radial	2499.731	2509.968	2509.281	2479.943
INDIUM	230.606	Axial	3954.980	3968.277	3948.892	3947.773

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	15178.95	15201.59	15316.50	15018.76
CALCIUM	373.690	Radial	77882.79	77959.54	78482.97	77205.85
IRON	271.441	Radial	1705.425	1704.851	1707.445	1703.979
MAGNESIUM	279.079	Radial	8921.322	8910.076	8970.478	8883.411
SODIUM	818.326	Radial	15391.57	15407.96	15502.62	15264.12
SULFUR	182.034	Axial	5850.285	5876.957	5866.785	5807.112

Sample ID: ICV-3 Units: mg/l
Analyzed: 03/18/25 06:25 Sequence: 10 Standard ID: 25C18572

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	12908.49	12891.75	12886.26	12928.62	12927.34
YTTRIUM	360.073	Axial	195271.3	193855.9	195496.8	197414.3	194318.2
YTTRIUM	360.073	Radial	2650.950	2634.218	2658.484	2646.826	2664.271
INDIUM	230.606	Axial	5183.309	5185.391	5165.439	5195.400	5187.007

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	340.6702	10.40214	10.55471	10.35634	10.33084
ANTIMONY	206.833	Axial	388.9530	0.9657859	0.9827637	0.9670073	0.9574296
ARSENIC	189.042	Axial	230.1922	0.9905778	1.003505	0.9925539	0.9950489
BARIUM	233.527	Axial	5358.483	1.027319	1.038447	1.033661	1.023710
BERYLLIUM	313.042	Radial	11886.56	1.004089	1.002294	1.001088	1.005667
BORON	249.678	Radial	52.00348	0.9782618	0.9544758	0.9870277	0.9898118
CADMIUM	228.802	Axial	10294.30	0.9744235	0.9850842	0.9793272	0.9702072
CALCIUM	317.933	Radial	2059.503	9.977567	9.977474	9.957904	9.973613
CHROMIUM	267.716	Axial	12517.46	1.023149	1.029574	1.030901	1.011463
COBALT	228.616	Axial	5132.818	0.9599789	0.9703547	0.9663657	0.9561891
COPPER	324.754	Axial	17604.39	0.9643237	0.9665339	0.9731259	0.9505284
IRON	259.940	Radial	1405.065	9.864331	9.883544	9.821085	9.898309
LEAD	220.353	Axial	555.6756	0.9686690	0.9779117	0.9751102	0.9632755
LITHIUM	670.784	Radial	4773.056	1.004939	1.005115	1.003281	1.005855
MAGNESIUM	279.079	Radial	188.7302	10.08132	10.11749	10.14893	9.935513
MANGANESE	257.610	Axial	62066.22	1.023711	1.029624	1.031368	1.009117
MOLYBDENUM	202.030	Axial	2009.901	1.020210	1.032638	1.025267	1.018590
NICKEL	231.604	Axial	1686.707	0.9676880	0.9804274	0.9710751	0.9649877
PHOSPHORUS	177.495	Axial	74.98537	0.9503215	0.9464091	0.9552206	0.9646320
POTASSIUM	766.490	Radial	2307.863	10.12790	10.12716	10.12465	10.10296
SELENIUM	196.090	Axial	164.3753	0.9576137	0.9681863	0.9607397	0.9588870
SILICON	251.611	Axial	3530.396	1.061478	1.034897	1.063116	1.060777
SILVER	328.068	Axial	15817.35	0.9772059	0.9787138	0.9857555	0.9655052
SODIUM	589.592	Radial	7285.756	10.29543	10.32524	10.28829	10.27091
STRONTIUM	421.552	Radial	9266.852	0.4095300	0.4083056	0.4094930	0.4094331
SULFUR	182.034	Axial	635.0061	9.459664	9.561088	9.482894	9.451242
THALLIUM	190.856	Axial	217.3337	1.022088	1.026720	1.029460	1.022156
TIN	189.989	Axial	471.7774	1.027640	1.043405	1.033915	1.023134
TITANIUM	334.941	Radial	724.6347	0.9937798	0.9904053	0.9962496	0.9926327
VANADIUM	292.402	Radial	159.7231	0.9783029	0.9700372	0.9811079	0.9790537
ZINC	206.200	Axial	4425.443	1.006112	1.016427	1.013727	1.003041
CERIUM	535.353	Radial	20.00850	-0.08619443	0.006122631	-0.07118056	-0.1718177
HOT WATER SOL. BORON	249.678	Radial	52.00348	0.9782618	0.9544758	0.9870277	0.9898118
LANTHANUM	333.749	Radial	0.9703960	-0.0006878835	0.006356955	-0.008216321	0.0004526208

Sample ID: ICB-3 Units: mg/l
Analyzed: 03/18/25 06:44 Sequence: 11

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	13053.38	13077.76	13051.55	13030.83
YTTRIUM	360.073	Axial	200566.2	202798.5	199849.5	199050.4
YTTRIUM	360.073	Radial	2806.532	3006.740	2734.137	2678.720
INDIUM	230.606	Axial	5412.748	5434.022	5409.783	5394.439

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5.298054	-0.02420209	-0.07983180	0.01281695	-0.005591431
ANTIMONY	206.833	Axial	1.285262	0.0003037308	0.0008033053	0.0001269385	-0.00001905128
ARSENIC	189.042	Axial	-0.1036844	-0.001041950	0.003147462	-0.004077694	-0.002195617
BARIUM	233.527	Axial	-6.76159	0.0002106235	0.0002733281	0.0005403510	-0.0001818084
BERYLLIUM	313.042	Radial	1.249792	-0.00008897546	-0.00006253466	0.00006587296	-0.0002702647
BORON	249.678	Radial	0.1944120	0.001792931	0.004915248	0.002007603	-0.001544057
CADMIUM	228.802	Axial	-9.97790	0.0001462521	0.0001543668	0.0001178702	0.0001665192
CALCIUM	317.933	Radial	119.0542	-0.03603691	-0.06889422	-0.02172256	-0.01749395
CERIUM	535.353	Radial	27.46764	-0.04088170	-0.03932240	-0.05367602	-0.02964666
CHROMIUM	267.716	Axial	-9.32793	-0.00002986255	-0.0003551743	0.0001227840	0.0001428027
COBALT	228.616	Axial	-1.63239	0.0001440000	0.00002426300	0.0003195924	0.00008814455
COPPER	324.754	Axial	53.08944	0.0006612038	0.0006319646	0.001030881	0.0003207655
HOT WATER SOL. BORON	249.678	Radial	0.1944120	0.001792931	0.004915248	0.002007603	-0.001544057
IRON	259.940	Radial	0.04165972	-0.003842217	0.001553552	0.002944723	-0.01602493
LANTHANUM	333.749	Radial	-0.08331945	-0.004464573	-0.008789056	-0.008216094	0.003611432
LEAD	220.353	Axial	-1.56329	0.0005520315	-0.001253422	0.0001906163	0.002718900
LITHIUM	670.784	Radial	9.553963	-0.0004169820	-0.0003776907	0.001425748	-0.002299004
MAGNESIUM	279.079	Radial	-2.05521	0.002742835	0.06892370	-0.02246452	-0.03823067
MANGANESE	257.610	Axial	0.9311655	0.00002866625	-0.00001228724	0.00001880599	0.00007948001
MOLYBDENUM	202.030	Axial	0.6325743	0.0005100805	0.0006487670	0.0003040173	0.0005774574
NICKEL	231.604	Axial	11.12550	0.00004260098	-0.000001148761	0.0003552634	-0.0002263117
PHOSPHORUS	177.495	Axial	-0.5440506	-0.001654048	-0.002352721	-0.001347801	-0.001261624
POTASSIUM	766.490	Radial	-52.7134	-0.005391259	-0.0009005664	0.01238140	-0.02765462
SELENIUM	196.090	Axial	1.991346	0.005243157	0.01045065	-0.0005160275	0.005794848
SILICON	251.611	Axial	31.86101	-0.001280304	-0.002256840	-0.001315815	-0.0002682563
SILVER	328.068	Axial	-14.9790	-0.00007815256	-0.00009513712	0.0001179136	-0.0002572341
SODIUM	589.592	Radial	-16.6083	-0.01759958	-0.03146386	-0.02484104	0.003506160
STRONTIUM	421.552	Radial	6.068433	-0.00008235452	-0.00003458667	-0.0002511626	0.00003868572
SULFUR	182.034	Axial	2.029309	0.005514919	0.005225970	0.006890954	0.004427832
THALLIUM	190.856	Axial	-0.1188998	-0.0008799689	-0.001046546	-0.001218749	-0.0003746118
TIN	189.989	Axial	-0.3598888	-0.002063435	-0.003020056	-0.002480665	-0.0006895839
TITANIUM	334.941	Radial	1.944120	0.001358448	-0.0009979063	0.004645920	0.0004273320
VANADIUM	292.402	Radial	-0.4027107	0.00005631806	0.0001623671	0.003393791	-0.003387204
ZINC	206.200	Axial	102.6670	-0.0006014219	-0.0004570530	-0.0007600969	-0.0005871157

Sample ID: ICVLL-3 Units: mg/l
Analyzed: 03/18/25 06:52 Sequence: 14 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	13118.73	13118.32	13136.14	13101.71
YTTRIUM	360.073	Axial	200284.0	199668.5	200437.4	200746.0
YTTRIUM	360.073	Radial	2678.671	2693.708	2669.703	2672.601
INDIUM	230.606	Axial	5463.409	5435.389	5487.297	5467.540

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	13.61137	0.2368419	0.2597502	0.2739904	0.1767850
ANTIMONY	206.833	Axial	5.190173	0.009857385	0.01018307	0.009569809	0.009819274
ARSENIC	189.042	Axial	2.035407	0.008028562	0.007496362	0.006028337	0.01056099
BARIUM	233.527	Axial	21.35534	0.005513460	0.005667585	0.005633091	0.005239704
BERYLLIUM	313.042	Radial	23.30167	0.001762006	0.001642276	0.001770563	0.001873179
BORON	249.678	Radial	10.22978	0.1892192	0.1874591	0.2000707	0.1801277
CADMIUM	228.802	Axial	10.00850	0.002010356	0.001966028	0.002010923	0.002054115
CALCIUM	317.933	Radial	314.2810	0.9842323	0.9593432	1.002442	0.9909111
CHROMIUM	267.716	Axial	121.2108	0.01036240	0.01019550	0.01062852	0.01026317
COBALT	228.616	Axial	52.16542	0.009687404	0.009444088	0.009780836	0.009837287
COPPER	324.754	Axial	243.9036	0.01087883	0.01099693	0.01059044	0.01104912
IRON	259.940	Radial	15.41410	0.1032874	0.09777979	0.1033422	0.1087401
LEAD	220.353	Axial	1.658530	0.005872914	0.002660959	0.008579394	0.006378388
LITHIUM	670.784	Radial	71.96023	0.01271051	0.01664838	0.01307383	0.008409328
MAGNESIUM	279.079	Radial	17.98311	1.048439	0.9830564	1.098046	1.064216
MANGANESE	257.610	Axial	660.3308	0.01063158	0.01063092	0.01060281	0.01066100
MOLYBDENUM	202.030	Axial	10.11206	0.005242261	0.005382473	0.005109934	0.005234376
NICKEL	231.604	Axial	28.17782	0.009324876	0.008860914	0.009403733	0.009709982
PHOSPHORUS	177.495	Axial	7.111386	0.09333006	0.09445788	0.09241580	0.09311649
POTASSIUM	766.490	Radial	195.5507	1.040572	1.076727	1.042216	1.002773
SELENIUM	196.090	Axial	3.013537	0.01108857	0.008399037	0.01054402	0.01432264
SILICON	251.611	Axial	631.6218	0.1763172	0.1752292	0.1772740	0.1764482
SILVER	328.068	Axial	80.40858	0.005661439	0.005748975	0.005594188	0.005641154
SODIUM	589.592	Radial	720.0467	1.010580	0.9976830	1.023681	1.010376
STRONTIUM	421.552	Radial	243.7788	0.01033556	0.01030738	0.01025121	0.01044809
SULFUR	182.034	Axial	64.91107	0.9294764	0.9269436	0.9301024	0.9313832
THALLIUM	190.856	Axial	1.912463	0.008182156	0.006313399	0.01221243	0.006020637
TIN	189.989	Axial	24.50142	0.05128985	0.05308289	0.05157339	0.04921327
TITANIUM	334.941	Radial	36.90126	0.04891601	0.04808246	0.05159324	0.04707233
VANADIUM	292.402	Radial	2.937010	0.02015462	0.02307307	0.009357364	0.02803343
ZINC	206.200	Axial	328.2900	0.05096883	0.05151346	0.05083720	0.05055584
CERIUM	535.353	Radial	30.67544	-0.007226872	0.03254719	0.04765203	-0.1018798
HOT WATER SOL. BORON	249.678	Radial	10.22978	0.1892192	0.1874591	0.2000707	0.1801277
LANTHANUM	333.749	Radial	1.277565	0.0004079354	-0.001581199	0.003118904	-0.0003138993

Sample ID: ICSA-3 Units: mg/l
Analyzed: 03/18/25 06:55 Sequence: 15 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11477.54	11469.19	11458.81	11504.62
YTTRIUM	360.073	Axial	171183.3	170795.1	171133.5	171621.2
YTTRIUM	360.073	Radial	2536.415	2508.906	2544.923	2555.417
INDIUM	230.606	Axial	4180.879	4209.542	4155.143	4177.953

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	15224.66	494.1831	498.8226	494.8419	488.8848
ANTIMONY	206.833	Axial	0.9907074	-0.00007910459	0.003650055	0.002360741	-0.006248111
ARSENIC	189.042	Axial	-1.05837	-0.005727671	-0.004805465	-0.01043357	-0.001943978
BARIUM	233.527	Axial	-2.99967	0.0008446654	0.0004084684	0.0008660973	0.001259430
BERYLLIUM	313.042	Radial	-0.6110073	-0.0002410906	-0.0003501406	-0.00009893491	-0.0002741964
BORON	249.678	Radial	-7.65314	-0.1522080	-0.1512381	-0.1216517	-0.1837342
CADMIUM	228.802	Axial	-5.55692	0.0004881710	0.0001668920	0.0006576093	0.0006400115
CALCIUM	373.690	Radial	78296.45	492.6834	497.5135	492.1480	488.3888
CERIUM	535.353	Radial	-27.0050	-0.4555751	-0.4947581	-0.4515828	-0.4203843
CHROMIUM	267.716	Axial	3.688298	0.001053945	0.001479600	0.0005587155	0.001123520
COBALT	228.616	Axial	5.617231	0.001738617	0.001454545	0.001702971	0.002058333
COPPER	324.754	Axial	85.49419	0.003177985	0.003318873	0.003051815	0.003163268
HOT WATER SOL. BORON	249.678	Radial	-7.65314	-0.1522080	-0.1512381	-0.1216517	-0.1837342
IRON	271.441	Radial	1691.126	195.0594	197.1140	194.2589	193.8054
LANTHANUM	333.749	Radial	-4.65950	-0.02274236	-0.03075624	-0.01283668	-0.02463414
LEAD	220.353	Axial	-1.34781	0.0002545507	-0.001115096	0.003577946	-0.001699198
LITHIUM	670.784	Radial	90.93582	0.01774924	0.01866463	0.01401714	0.02056594
MAGNESIUM	279.079	Radial	8905.138	491.9888	496.8555	490.2667	488.8441
MANGANESE	257.610	Axial	44.52485	0.0008510138	0.0007974276	0.0008308831	0.0009247307
MOLYBDENUM	202.030	Axial	0.4811624	0.0004664925	0.0009917900	-0.0005501134	0.0009578010
NICKEL	231.604	Axial	16.70760	0.005844987	0.007768832	0.005466049	0.004300081
PHOSPHORUS	177.495	Axial	-0.5309963	-0.002399448	-0.02085538	0.01286480	0.0007922425
POTASSIUM	766.490	Radial	-64.2954	-0.08004133	-0.1008691	-0.07858272	-0.06067220
SELENIUM	196.090	Axial	0.8131215	-0.0009458450	-0.004895739	-0.003234422	0.005292626
SILICON	251.611	Axial	-12.2575	-0.01495384	-0.01574406	-0.01358027	-0.01553718
SILVER	328.068	Axial	-33.9425	-0.001567729	-0.001101835	-0.002313006	-0.001288347
SODIUM	589.592	Radial	33.87249	0.05401555	0.06310604	0.04033511	0.05860550
STRONTIUM	421.552	Radial	150.5233	0.006623057	0.006660913	0.006437164	0.006771093
SULFUR	182.034	Axial	3.593002	0.03590742	0.004411684	0.06858907	0.03472151
THALLIUM	190.856	Axial	0.7592635	0.004118128	-0.006353498	0.008800941	0.009906940
TIN	189.989	Axial	-0.8478278	-0.003372062	-0.005210928	-0.004851286	-0.00005397083
TITANIUM	334.941	Radial	31.76421	0.04435137	0.04421488	0.04383882	0.04500042
VANADIUM	292.402	Radial	3.486132	0.02461563	0.01530351	0.02725598	0.03128739
ZINC	206.200	Axial	375.3367	0.07404286	0.07532459	0.07359966	0.07320433

Sample ID: ICSAB-3 Units: mg/l
Analyzed: 03/18/25 06:58 Sequence: 16 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11398.90	11404.06	11403.07	11389.58
YTTRIUM	360.073	Axial	169655.0	170301.0	168810.4	169853.6
YTTRIUM	360.073	Radial	2522.969	2513.965	2529.055	2525.888
INDIUM	230.606	Axial	4145.176	4123.987	4161.480	4150.059

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	15410.03	502.8419	504.3047	502.1297	502.0914
ANTIMONY	206.833	Axial	173.8178	0.4873340	0.4887914	0.4869974	0.4862131
ARSENIC	189.042	Axial	100.2557	0.4882520	0.4919693	0.4901419	0.4826447
BARIUM	233.527	Axial	2343.639	0.5095689	0.5091945	0.5101449	0.5093673
BERYLLIUM	313.042	Radial	5494.744	0.4876084	0.4882932	0.4854595	0.4890726
BORON	249.678	Radial	43.05473	0.8509268	0.8970648	0.8265885	0.8291270
CADMIUM	228.802	Axial	9363.901	1.003691	1.010196	1.003323	0.9975523
CALCIUM	373.690	Radial	78815.20	498.5639	499.5158	497.9858	498.1901
CERIUM	535.353	Radial	-27.9159	-0.4636518	-0.3674125	-0.4892603	-0.5342826
CHROMIUM	267.716	Axial	5179.649	0.4876569	0.4862541	0.4895138	0.4872028
COBALT	228.616	Axial	2044.411	0.4783524	0.4853702	0.4764684	0.4732185
COPPER	324.754	Axial	8307.364	0.5227475	0.5245828	0.5232735	0.5203862
HOT WATER SOL. BORON	249.678	Radial	43.05473	0.8509268	0.8970648	0.8265885	0.8291270
IRON	271.441	Radial	1667.170	193.3100	194.3063	192.3051	193.3187
LANTHANUM	333.749	Radial	-3.65327	-0.01881300	-0.01274334	-0.01719039	-0.02650526
LEAD	220.353	Axial	433.3124	0.9445920	0.9403869	0.9512408	0.9421483
LITHIUM	670.784	Radial	90.85984	0.01784216	0.01919241	0.01495845	0.01937563
MAGNESIUM	279.079	Radial	8892.130	493.8627	495.2765	493.6823	492.6293
MANGANESE	257.610	Axial	25600.36	0.4859938	0.4844715	0.4885579	0.4849519
MOLYBDENUM	202.030	Axial	834.6928	0.4798879	0.4802337	0.4828725	0.4765576
NICKEL	231.604	Axial	1326.866	0.9517932	0.9562401	0.9530647	0.9460746
PHOSPHORUS	177.495	Axial	-1.37511	-0.01450273	-0.01544866	-0.01158464	-0.01647489
POTASSIUM	766.490	Radial	-50.6602	-0.01990782	-0.02872890	0.01487068	-0.04586523
SELENIUM	196.090	Axial	71.58263	0.4690568	0.4681696	0.4619193	0.4770815
SILICON	251.611	Axial	2604.462	0.8997236	0.8966457	0.9032325	0.8992925
SILVER	328.068	Axial	11866.36	0.8438925	0.8415260	0.8456134	0.8445382
SODIUM	589.592	Radial	62.78555	0.09712089	0.07437820	0.09999536	0.1169891
STRONTIUM	421.552	Radial	146.7876	0.006486235	0.006352366	0.006740340	0.006365999
SULFUR	182.034	Axial	4.185416	0.04633822	0.04440275	0.03354403	0.06106788
THALLIUM	190.856	Axial	79.23789	0.4657968	0.4710669	0.4581872	0.4681364
TIN	189.989	Axial	187.6363	0.4621277	0.4610209	0.4612731	0.4640890
TITANIUM	334.941	Radial	366.3509	0.5273376	0.5292590	0.5278603	0.5248935
VANADIUM	292.402	Radial	73.44126	0.4739305	0.4890117	0.4557774	0.4770024
ZINC	206.200	Axial	3821.270	0.9832541	0.9875441	0.9840634	0.9781547

Sample ID: CCVLL-3 Units: mg/l
Analyzed: 03/18/25 14:33 Sequence: 163 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12631.24	12638.22	12633.29	12622.21
YTTRIUM	360.073	Axial	195803.8	196418.3	195478.5	195514.7
YTTRIUM	360.073	Radial	2746.055	2745.126	2720.584	2772.455
INDIUM	230.606	Axial	5460.650	5441.358	5426.294	5514.298

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	13.52206	0.2239170	0.1708768	0.2480059	0.2528683
ANTIMONY	206.833	Axial	4.351240	0.008212901	0.008872796	0.007633889	0.008132018
ARSENIC	189.042	Axial	2.072252	0.008522802	0.007029812	0.006359385	0.01217921
BARIUM	233.527	Axial	19.75330	0.005355395	0.005353690	0.005573405	0.005139091
BERYLLIUM	313.042	Radial	26.13453	0.001945276	0.001798365	0.002076928	0.001960536
BORON	249.678	Radial	11.15555	0.2014119	0.2278844	0.1942605	0.1820908
CADMIUM	228.802	Axial	11.31596	0.002172564	0.002332697	0.002094607	0.002090388
CALCIUM	317.933	Radial	314.0495	0.9438650	0.9377064	0.9646644	0.9292243
CHROMIUM	267.716	Axial	115.5964	0.01012543	0.01055437	0.01012213	0.009699785
COBALT	228.616	Axial	50.03422	0.009315510	0.009263120	0.009548033	0.009135376
COPPER	324.754	Axial	244.4083	0.01120464	0.01149254	0.01090566	0.01121573
IRON	259.940	Radial	15.26135	0.09960625	0.09841890	0.09991178	0.1004881
LEAD	220.353	Axial	1.723731	0.005999643	0.006281318	0.007301950	0.004415660
LITHIUM	670.784	Radial	92.09576	0.01646071	0.01603014	0.01776320	0.01558879
MAGNESIUM	279.079	Radial	18.48303	1.050589	0.9942999	1.066654	1.090815
MANGANESE	257.610	Axial	660.7184	0.01088100	0.01083209	0.01097458	0.01083633
MOLYBDENUM	202.030	Axial	10.83721	0.005813200	0.005948204	0.005512859	0.005978537
NICKEL	231.604	Axial	27.68760	0.009061256	0.008722232	0.008639021	0.009822515
PHOSPHORUS	177.495	Axial	6.955961	0.09473361	0.09661820	0.08540833	0.1021743
POTASSIUM	766.490	Radial	193.1623	1.010136	0.9655461	1.000287	1.064576
SELENIUM	196.090	Axial	2.844226	0.01074362	0.008126062	0.01376053	0.01034426
SILICON	251.611	Axial	649.4206	0.1859881	0.1863818	0.1840902	0.1874923
SILVER	328.068	Axial	67.90299	0.005002745	0.004665324	0.005223654	0.005119259
SODIUM	589.592	Radial	798.3392	1.092674	1.095623	1.102374	1.080023
STRONTIUM	421.552	Radial	252.3607	0.01044073	0.01033402	0.01059724	0.01039094
SULFUR	182.034	Axial	68.06763	1.014473	1.013191	1.009981	1.020247
THALLIUM	190.856	Axial	2.048739	0.008809941	0.01099306	0.008194362	0.007242402
TIN	189.989	Axial	24.86321	0.05412727	0.05186635	0.05459751	0.05591794
TITANIUM	334.941	Radial	35.72553	0.04611658	0.04789532	0.04402792	0.04642649
VANADIUM	292.402	Radial	2.499583	0.01716911	0.01580328	0.02088469	0.01481937
ZINC	206.200	Axial	335.9116	0.05568511	0.05559539	0.05527523	0.05618471
CERIUM	535.353	Radial	27.41210	-0.03709748	-0.003018065	-0.07945976	-0.02881462
HOT WATER SOL. BORON	249.678	Radial	11.15555	0.2014119	0.2278844	0.1942605	0.1820908
LANTHANUM	333.749	Radial	0.2962469	-0.003253378	0.009985962	-0.005380746	-0.01436535

Sample ID: CCV-2 Units: mg/l
Analyzed: 03/18/25 18:09 Sequence: 228 Standard ID: 25C17425

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12253.75	12230.96	12241.35	12288.95
YTTRIUM	360.073	Axial	190467.5	190145.9	191043.6	190212.9
YTTRIUM	360.073	Radial	2544.518	2553.580	2533.927	2546.047
INDIUM	230.606	Axial	4939.820	4916.173	4946.736	4956.551

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	292.7149	9.292396	9.249513	9.255507	9.372169
ANTIMONY	206.833	Axial	180.3933	0.4703848	0.4693141	0.4695871	0.4722532
ARSENIC	189.042	Axial	206.5392	0.9362553	0.9469646	0.9350794	0.9267220
BARIUM	233.527	Axial	2356.765	0.4767743	0.4762368	0.4797224	0.4743637
BERYLLIUM	313.042	Radial	2288.244	0.2012305	0.2009904	0.2009137	0.2017873
BORON	249.678	Radial	49.19127	0.9640623	0.9631004	0.9483015	0.9807851
CADMIUM	228.802	Axial	4932.339	0.4923555	0.4923749	0.4941947	0.4904970
CALCIUM	317.933	Radial	9026.046	47.75243	47.73956	47.69748	47.82024
CHROMIUM	267.716	Axial	11466.19	0.9608682	0.9629356	0.9597264	0.9599427
COBALT	228.616	Axial	4776.977	0.9374877	0.9453798	0.9373850	0.9296985
COPPER	324.754	Axial	15205.27	0.8536243	0.8560732	0.8548514	0.8499483
IRON	259.940	Radial	1311.095	9.589462	9.574183	9.601020	9.593182
LEAD	220.353	Axial	268.0495	0.4918638	0.4954464	0.4928204	0.4873247
LITHIUM	670.784	Radial	4358.501	0.9559200	0.9580928	0.9527713	0.9568958
MAGNESIUM	279.079	Radial	181.9189	10.12346	10.12023	10.03462	10.21552
MANGANESE	257.610	Axial	55225.57	0.9338147	0.9362058	0.9317405	0.9334979
MOLYBDENUM	202.030	Axial	474.4222	0.2538243	0.2546170	0.2549248	0.2519311
NICKEL	231.604	Axial	1682.392	1.013110	1.029522	1.010523	0.9992865
PHOSPHORUS	177.495	Axial	75.59319	1.008883	1.003280	1.006580	1.016789
POTASSIUM	766.490	Radial	10608.14	47.70873	47.75609	47.53660	47.83350
SELENIUM	196.090	Axial	154.4199	0.9476121	0.9452441	0.9531683	0.9444239
SILICON	251.611	Axial	6036.286	1.868776	1.861937	1.872689	1.871704
SILVER	328.068	Axial	7678.410	0.4867387	0.4883916	0.4859839	0.4858407
SODIUM	589.592	Radial	31476.13	46.32486	46.36067	46.27095	46.34297
STRONTIUM	421.552	Radial	21288.45	0.9806245	0.9825251	0.9797776	0.9795708
SULFUR	182.034	Axial	315.0275	4.932012	4.914666	4.974289	4.907081
THALLIUM	190.856	Axial	198.8348	0.9811436	0.9754636	0.9792182	0.9887489
TIN	189.989	Axial	214.4877	0.4914901	0.4918899	0.4927339	0.4898465
TITANIUM	334.941	Radial	681.7103	0.9739976	0.9788596	0.9735247	0.9696086
VANADIUM	292.402	Radial	150.2423	0.9587960	0.9587623	0.9608957	0.9567300
ZINC	206.200	Axial	4223.027	1.011519	1.019123	1.011800	1.003633
CERIUM	535.353	Radial	31.46216	0.01136338	0.002737064	-0.0006001022	0.03195318
HOT WATER SOL. BORON	249.678	Radial	49.19127	0.9640623	0.9631004	0.9483015	0.9807851
LANTHANUM	333.749	Radial	1.625081	0.002013210	-0.0002462133	-0.001628001	0.007913843

Sample ID: CCB-2 Units: mg/l
Analyzed: 03/18/25 18:12 Sequence: 229

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12123.94	12125.14	12112.57	12134.12
YTTRIUM	360.073	Axial	193982.1	194112.1	194605.4	193228.8
YTTRIUM	360.073	Radial	2472.393	2483.753	2458.729	2474.699
INDIUM	230.606	Axial	5237.204	5232.890	5226.368	5252.356

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5.194757	-0.008550402	-0.03580181	-0.02167624	0.03182684
ANTIMONY	206.833	Axial	1.469944	0.001036382	0.003785465	-0.0004324944	-0.0002438252
ARSENIC	189.042	Axial	-0.4968419	-0.002874699	-0.001618343	-0.003242854	-0.003762900
BARIUM	233.527	Axial	-6.96752	0.00007081802	0.0002372683	0.00008401565	-0.0001088298
BERYLLIUM	313.042	Radial	1.110926	-0.00008680577	0.0002415997	-0.0002625648	-0.0002394522
BORON	249.678	Radial	-0.2314429	-0.006265681	-0.02109255	-0.03596104	0.03825654
CADMIUM	228.802	Axial	-8.25457	0.0002482424	0.0003100020	0.0002745204	0.0001602049
CALCIUM	317.933	Radial	114.9160	0.01815297	0.01253475	0.02709113	0.01483302
CERIUM	535.353	Radial	24.62090	-0.03707365	-0.1407500	0.07022126	-0.04069221
CHROMIUM	267.716	Axial	-8.43839	0.00001637890	0.00009899904	-0.00008045572	0.00003059339
COBALT	228.616	Axial	-4.66308	-0.0004267851	-0.0004724105	-0.0004733925	-0.0003345522
COPPER	324.754	Axial	27.18811	-0.0006728451	-0.0008453591	-0.0008697618	-0.0003034143
HOT WATER SOL. BORON	249.678	Radial	-0.2314429	-0.006265681	-0.02109255	-0.03596104	0.03825654
IRON	259.940	Radial	1.471977	0.007216669	0.01456095	0.009385636	-0.002296575
LANTHANUM	333.749	Radial	1.481235	0.001587502	0.01540419	-0.006504573	-0.004137108
LEAD	220.353	Axial	-0.6626936	0.002010999	0.002531283	0.002926695	0.0005750202
LITHIUM	670.784	Radial	17.69150	0.001702856	-0.0004498414	0.003986113	0.001572295
MAGNESIUM	279.079	Radial	-1.94412	-0.002230655	-0.005043865	0.08163422	-0.08328232
MANGANESE	257.610	Axial	7.758226	0.0001421638	0.0002181834	0.0001304165	0.00007789153
MOLYBDENUM	202.030	Axial	-0.5846123	-0.0001230959	-0.0001249225	0.00006656447	-0.0003109296
NICKEL	231.604	Axial	10.81850	0.00007400050	0.0004223168	0.00008947280	-0.0002897881
PHOSPHORUS	177.495	Axial	-0.2771660	0.001405140	0.005514642	-0.003732624	0.002433402
POTASSIUM	766.490	Radial	-32.1613	0.06079565	0.02276499	0.08824462	0.07137735
SELENIUM	196.090	Axial	1.579257	0.003561035	0.002436474	0.007924750	0.0003218827
SILICON	251.611	Axial	48.35638	0.004078449	0.003642790	0.003472038	0.005120519
SILVER	328.068	Axial	-15.1339	-0.0001180067	-0.0005993538	0.0001210517	0.0001242820
SODIUM	589.592	Radial	48.26973	0.07709601	0.06301094	0.07693558	0.09134150
STRONTIUM	421.552	Radial	7.443204	0.00001834862	-0.0002485979	0.00009597199	0.0002076718
SULFUR	182.034	Axial	1.109620	-0.006812613	0.008815766	-0.01479520	-0.01445840
THALLIUM	190.856	Axial	-0.3380434	-0.001921178	0.0004744644	-0.005045079	-0.001192919
TIN	189.989	Axial	1.261988	0.001640523	-0.0007151583	0.0004910500	0.005145676
TITANIUM	334.941	Radial	1.018349	0.0002741703	-0.001640307	0.002960745	-0.0004979273
VANADIUM	292.402	Radial	-1.60389	-0.008049964	-0.02082188	0.008444345	-0.01177235
ZINC	206.200	Axial	96.55116	-0.0003053265	-0.00002187345	-0.0005098121	-0.0003842939

Sample ID: ICSA-3 Units: mg/l
Analyzed: 03/18/25 18:23 Sequence: 230 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11219.52	11208.24	11242.02	11208.29
YTTRIUM	360.073	Axial	173061.1	172866.7	173728.7	172587.9
YTTRIUM	360.073	Radial	2531.577	2534.845	2518.555	2541.330
INDIUM	230.606	Axial	4171.486	4173.381	4170.135	4170.942

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	14037.69	456.4870	452.3274	458.4426	458.6911
ANTIMONY	206.833	Axial	1.285944	0.0008205867	-0.005691878	0.003773929	0.004379709
ARSENIC	189.042	Axial	-0.6614357	-0.003877736	-0.006288967	0.00004459153	-0.005388833
BARIUM	233.527	Axial	-1.93489	0.001064813	0.0007170852	0.001007611	0.001469744
BERYLLIUM	313.042	Radial	-1.21816	-0.0002947274	-0.00002505212	-0.0004674354	-0.0003916947
BORON	249.678	Radial	-6.40804	-0.1278973	-0.1205912	-0.1031561	-0.1599447
CADMIUM	228.802	Axial	-5.56165	0.0004743672	0.0005192687	0.0002802675	0.0006235654
CALCIUM	373.690	Radial	74470.99	469.4788	466.3496	470.7082	471.3784
CERIUM	535.353	Radial	-22.3268	-0.4182434	-0.4176798	-0.4080085	-0.4290420
CHROMIUM	267.716	Axial	4.716811	0.001143916	0.0009324285	0.001593280	0.0009060402
COBALT	228.616	Axial	3.836159	0.001327014	0.002073600	0.0009800168	0.0009274240
COPPER	324.754	Axial	47.51595	0.0007683355	0.0008284637	0.0002613992	0.001215144
HOT WATER SOL. BORON	249.678	Radial	-6.40804	-0.1278973	-0.1205912	-0.1031561	-0.1599447
IRON	271.441	Radial	1643.904	189.9599	188.7066	190.6182	190.5549
LANTHANUM	333.749	Radial	-3.03780	-0.01633838	-0.01538864	-0.01446425	-0.01916227
LEAD	220.353	Axial	1.206712	0.005754861	-0.0001743292	0.005239242	0.01219967
LITHIUM	670.784	Radial	91.02339	0.01780564	0.01624242	0.01797400	0.01920052
MAGNESIUM	279.079	Radial	8912.955	493.3348	490.3409	494.4361	495.2274
MANGANESE	257.610	Axial	39.07771	0.0007408593	0.0007836491	0.0006403335	0.0007985954
MOLYBDENUM	202.030	Axial	-0.08559402	0.0001427013	0.0008474218	0.0001409074	-0.0005602252
NICKEL	231.604	Axial	13.63057	0.003670314	0.003009909	0.005236794	0.002764239
PHOSPHORUS	177.495	Axial	-0.3328727	0.0003167557	0.003590310	-0.01697563	0.01433559
POTASSIUM	766.490	Radial	-64.2944	-0.08037184	-0.09622135	-0.04537007	-0.09952411
SELENIUM	196.090	Axial	-1.72266	-0.01791476	-0.007608729	-0.02706450	-0.01907104
SILICON	251.611	Axial	-18.7349	-0.01712778	-0.01778338	-0.01683527	-0.01676471
SILVER	328.068	Axial	-36.3439	-0.001708738	-0.001048469	-0.002031471	-0.002046273
SODIUM	589.592	Radial	25.70343	0.04200149	0.02233315	0.05103657	0.05263476
STRONTIUM	421.552	Radial	149.9313	0.006609028	0.006708172	0.006603966	0.006514947
SULFUR	182.034	Axial	2.508907	0.01865104	0.009756998	0.02315377	0.02304235
THALLIUM	190.856	Axial	0.9390485	0.005143327	0.008604871	0.002982777	0.003842333
TIN	189.989	Axial	-0.5965846	-0.002785695	-0.002247454	-0.002687572	-0.003422058
TITANIUM	334.941	Radial	30.24016	0.04225847	0.04274234	0.04539900	0.03863406
VANADIUM	292.402	Radial	4.709420	0.03252287	0.04052404	0.02511580	0.03192877
ZINC	206.200	Axial	373.0293	0.07568476	0.07606042	0.07518654	0.07580733

Sample ID: ICSAB-3 Units: mg/l
Analyzed: 03/18/25 18:25 Sequence: 231 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11125.82	11111.14	11115.41	11150.91
YTTRIUM	360.073	Axial	172407.1	172230.4	172452.6	172538.4
YTTRIUM	360.073	Radial	2478.380	2460.397	2494.927	2479.816
INDIUM	230.606	Axial	4148.273	4151.662	4124.140	4169.016

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	13974.65	464.2003	465.4166	461.6736	465.5106
ANTIMONY	206.833	Axial	167.9574	0.4824360	0.4863094	0.4804904	0.4805081
ARSENIC	189.042	Axial	95.63988	0.4771948	0.4746578	0.4810739	0.4758527
BARIUM	233.527	Axial	2154.089	0.4799383	0.4807832	0.4786713	0.4803604
BERYLLIUM	313.042	Radial	5482.192	0.4952581	0.4970527	0.4926784	0.4960432
BORON	249.678	Radial	40.85827	0.8217681	0.7831279	0.8430608	0.8391156
CADMIUM	228.802	Axial	9058.400	0.9947940	0.9970443	0.9971316	0.9902060
CALCIUM	373.690	Radial	74363.32	478.8722	480.5135	476.1183	479.9846
CERIUM	535.353	Radial	-18.8601	-0.3934709	-0.3268276	-0.4422601	-0.4113250
CHROMIUM	267.716	Axial	5055.248	0.4683706	0.4687414	0.4672986	0.4690720
COBALT	228.616	Axial	2007.956	0.4694728	0.4699116	0.4718376	0.4666693
COPPER	324.754	Axial	7566.766	0.4683201	0.4703469	0.4679428	0.4666706
HOT WATER SOL. BORON	249.678	Radial	40.85827	0.8217681	0.7831279	0.8430608	0.8391156
IRON	271.441	Radial	1634.021	192.8771	193.6928	191.7730	193.1653
LANTHANUM	333.749	Radial	-1.37814	-0.009916585	-0.007962599	-0.006362308	-0.01542485
LEAD	220.353	Axial	447.7842	0.9753132	0.9712074	0.9740501	0.9806820
LITHIUM	670.784	Radial	92.39543	0.01854661	0.02006628	0.02113851	0.01443505
MAGNESIUM	279.079	Radial	8992.356	508.4243	511.0960	504.3513	509.8257
MANGANESE	257.610	Axial	24493.90	0.4575612	0.4581538	0.4575294	0.4570005
MOLYBDENUM	202.030	Axial	835.7266	0.4922739	0.4949874	0.4909195	0.4909150
NICKEL	231.604	Axial	1407.029	1.008920	1.008735	1.015263	1.002763
PHOSPHORUS	177.495	Axial	-0.5172505	-0.002427943	-0.0001482211	0.004199368	-0.01133498
POTASSIUM	766.490	Radial	-58.5044	-0.05978984	-0.01277902	-0.1305022	-0.03608834
SELENIUM	196.090	Axial	69.10007	0.4638320	0.4700893	0.4579993	0.4634075
SILICON	251.611	Axial	2704.954	0.9197477	0.9186688	0.9208526	0.9197217
SILVER	328.068	Axial	12416.16	0.8688705	0.8734915	0.8721175	0.8610025
SODIUM	589.592	Radial	56.98591	0.09005307	0.07739781	0.08300496	0.1097564
STRONTIUM	421.552	Radial	147.1733	0.006627422	0.006712840	0.006791334	0.006378092
SULFUR	182.034	Axial	3.253094	0.03193098	0.03976454	0.03891325	0.01711514
THALLIUM	190.856	Axial	82.73881	0.4860017	0.4861839	0.4836752	0.4881461
TIN	189.989	Axial	181.7550	0.4586178	0.4594320	0.4560314	0.4603900
TITANIUM	334.941	Radial	353.0565	0.5173087	0.5159259	0.5202753	0.5157248
VANADIUM	292.402	Radial	72.00591	0.4729318	0.4562315	0.4855858	0.4769781
ZINC	206.200	Axial	3797.022	1.001438	1.006019	0.9985220	0.9997713

Sample ID: BLANK DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 19:45 Sequence: 234

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12991.00	12964.31	13035.53	12973.14
YTTRIUM	360.073	Axial	203573.6	203597.6	203138.0	203985.2
YTTRIUM	360.073	Radial	2674.523	2709.187	2669.944	2644.439
INDIUM	230.606	Axial	5457.944	5451.158	5467.747	5454.925

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.4266163	0.001233709	0.002670446	-0.001993231	0.003023912
BARIUM	233.527	Axial	-6.91411	0.0001755316	-0.0002374443	0.0002315189	0.0005325203
BORON	249.678	Radial	0.2407006	0.002844439	0.01432957	0.007288783	-0.01308504
CADMIUM	228.802	Axial	-13.9486	-0.0002309861	-0.00008882416	-0.0003974467	-0.0002066874
CHROMIUM	267.716	Axial	-3.25935	0.0004537502	0.0001167187	-0.00009621539	0.001340747
COBALT	228.616	Axial	-0.4457920	0.0003566679	0.0003942326	0.0007365259	-0.00006075488
LEAD	220.353	Axial	-0.4933500	0.002333125	0.001444892	0.003657674	0.001896808
LITHIUM	670.784	Radial	11.12315	0.00003610121	-0.001946405	-0.0003437236	0.002398432
SELENIUM	196.090	Axial	1.250097	0.0009758922	-0.002324302	0.004750856	0.0005011232
SILVER	328.068	Axial	-16.9970	-0.0001844443	-0.0004874673	-0.0002370108	0.0001711454
ALUMINUM	308.215	Radial	6.679793	0.02379867	0.08148664	-0.02931455	0.01922391
ANTIMONY	206.833	Axial	1.265923	0.0002733435	-0.0008516891	-0.0009879608	0.002659680
BERYLLIUM	313.042	Radial	1.971894	-0.00002226123	0.0001026398	-0.0001097816	-0.00005964187
CALCIUM	317.933	Radial	120.4521	-0.001500658	-0.007167144	-0.001485905	0.004151074
COPPER	324.754	Axial	32.68690	-0.0004546847	-0.0003789793	-0.0004062075	-0.0005788672
IRON	259.940	Radial	0.2221852	-0.002315753	-0.001859621	-0.003863699	-0.001223939
MAGNESIUM	279.079	Radial	-2.13853	-0.003859587	-0.02581788	-0.07805667	0.09229579
MANGANESE	257.610	Axial	11.39580	0.0001937047	0.0001951448	0.0001749402	0.0002110291
MOLYBDENUM	202.030	Axial	0.4738269	0.0004313385	-0.0003291247	0.0004940014	0.001129139
NICKEL	231.604	Axial	10.62722	-0.0002812796	-0.00003270114	-0.0002821155	-0.0005290222
PHOSPHORUS	177.495	Axial	-0.5413582	-0.001652400	-0.002875653	-0.002554536	0.0004729892
POTASSIUM	766.490	Radial	-38.7713	0.04375639	0.03404866	0.06081186	0.03640865
SILICON	251.611	Axial	35.87338	-0.0002559141	-0.001585140	0.0009407580	-0.0001233604
SODIUM	589.592	Radial	14.12265	0.02370760	0.02804093	0.02448007	0.01860180
STRONTIUM	421.552	Radial	6.068433	-0.00007157612	0.0002183860	-0.00002594690	-0.0004071675
SULFUR	182.034	Axial	2.324463	0.01002738	0.003173975	0.01659866	0.01030952
THALLIUM	190.856	Axial	-0.2283539	-0.001367057	-0.004600053	-0.00002920713	0.0005280886
TIN	189.989	Axial	-0.1023022	-0.001509011	-0.002109267	-0.002410931	-0.000006835440
TITANIUM	334.941	Radial	-0.4258550	-0.001825260	0.0001474411	-0.002937199	-0.002686022
VANADIUM	292.402	Radial	0.7498750	0.006947835	0.006018133	0.009356737	0.005468636
ZINC	206.200	Axial	107.1288	0.0005446186	0.0007317622	0.0004263757	0.0004757179
CERIUM	535.353	Radial	33.32778	0.01353650	0.01321647	-0.05016000	0.07755302
LANTHANUM	333.749	Radial	0.7128442	-0.001691953	-0.004975527	0.004260930	-0.004361264

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 19:48 Sequence: 235

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12853.79	12825.38	12889.90	12846.10
YTTRIUM	360.073	Axial	199533.8	199913.0	199871.9	198816.7
YTTRIUM	360.073	Radial	2645.523	2624.765	2633.651	2678.155
INDIUM	230.606	Axial	5228.505	5212.544	5223.610	5249.361

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	223.6838	0.9666580	0.9803927	0.9593979	0.9601834
BARIUM	233.527	Axial	4903.324	0.9441695	0.9490845	0.9436779	0.9397462
BORON	249.678	Radial	48.93439	0.9224611	0.9265544	0.9340244	0.9068047
CADMIUM	228.802	Axial	10168.12	0.9665768	0.9702120	0.9643672	0.9651513
CHROMIUM	267.716	Axial	12092.39	0.9672951	0.9672155	0.9663031	0.9683666
COBALT	228.616	Axial	5096.481	0.9449576	0.9507935	0.9464276	0.9376516
LEAD	220.353	Axial	580.2169	1.002592	1.009070	0.9966342	1.002071
LITHIUM	670.784	Radial	4588.641	0.9680328	0.9693619	0.9709480	0.9637884
SELENIUM	196.090	Axial	169.4955	0.9918645	0.9928018	0.9874232	0.9953685
SILVER	328.068	Axial	2953.320	0.1792234	0.1801127	0.1797303	0.1778274
ALUMINUM	308.215	Radial	309.4767	9.452649	9.362555	9.587757	9.407636
ANTIMONY	206.833	Axial	386.4961	0.9637680	0.9709389	0.9516826	0.9686823
BERYLLIUM	313.042	Radial	11825.69	1.001051	1.004133	1.006295	0.9927236
CALCIUM	317.933	Radial	2010.898	9.749309	9.791133	9.790465	9.666331
COPPER	324.754	Axial	15937.85	0.8540997	0.8550106	0.8525842	0.8547043
IRON	259.940	Radial	1337.530	9.409551	9.479809	9.388562	9.360284
MAGNESIUM	279.079	Radial	183.0674	9.802710	9.870261	9.846003	9.691865
MANGANESE	257.610	Axial	58541.98	0.9449116	0.9442928	0.9447462	0.9456958
MOLYBDENUM	202.030	Axial	1984.693	1.011702	1.017212	1.004030	1.013866
NICKEL	231.604	Axial	1783.201	1.014510	1.023347	1.013077	1.007107
PHOSPHORUS	177.495	Axial	79.43833	1.010714	1.009565	1.007939	1.014639
POTASSIUM	766.490	Radial	2240.691	9.859917	9.955530	9.909321	9.714901
SILICON	251.611	Axial	2878.092	0.8447081	0.8461864	0.8454888	0.8424490
SODIUM	589.592	Radial	6988.339	9.895476	9.891957	9.890030	9.904440
STRONTIUM	421.552	Radial	22130.52	0.9805396	0.9837196	0.9845308	0.9733684
SULFUR	182.034	Axial	683.4024	10.22592	10.26890	10.15859	10.25029
THALLIUM	190.856	Axial	228.3608	1.064700	1.073664	1.070630	1.049806
TIN	189.989	Axial	463.4508	1.013777	1.019331	1.006089	1.015910
TITANIUM	334.941	Radial	699.7733	0.9616262	0.9607722	0.9632583	0.9608481
VANADIUM	292.402	Radial	150.6610	0.9248577	0.9218288	0.9313520	0.9213924
ZINC	206.200	Axial	4478.803	1.022964	1.026337	1.020151	1.022405
CERIUM	535.353	Radial	41.29181	0.07692596	0.08576770	0.02502221	0.1199880
LANTHANUM	333.749	Radial	1.773047	0.002267625	-0.002886064	-0.002995149	0.01268409

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835142-02 DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 19:50 Sequence: 236

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12669.28	12670.68	12662.96	12674.20
YTTRIUM	360.073	Axial	199514.8	200578.9	198136.5	199829.1
YTTRIUM	360.073	Radial	2660.407	2637.303	2667.711	2676.207
INDIUM	230.606	Axial	5213.668	5203.942	5209.770	5227.292

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.4419131	0.001340906	0.004987896	-0.002404128	0.001438950
BARIUM	233.527	Axial	217.6089	0.04393608	0.04390957	0.04411325	0.04378542
BORON	249.678	Radial	1.719659	0.03074781	0.03207573	0.02958933	0.03057839
CADMIUM	228.802	Axial	-11.5658	-0.00003503714	-0.0001000223	-0.00008167283	0.00007658368
CHROMIUM	267.716	Axial	-3.02531	0.0004692222	0.0003358209	0.0007569812	0.0003148646
COBALT	228.616	Axial	1.411669	0.0006981731	0.0003500159	0.0009040397	0.0008404638
LEAD	220.353	Axial	-0.6935628	0.001951840	0.002923368	0.001968914	0.0009632396
LITHIUM	670.784	Radial	38.65406	0.005822293	0.006605615	0.004047153	0.006814112
SELENIUM	196.090	Axial	1.214275	0.0009521451	0.001912141	-0.004347001	0.005291295
SILVER	328.068	Axial	-19.7772	-0.0003727757	-0.0004059425	-0.0004446735	-0.0002677110
ALUMINUM	308.215	Radial	6.055073	0.005842354	0.005538744	0.002035828	0.009952491
ANTIMONY	206.833	Axial	0.6415382	-0.001233662	0.0001358567	-0.003297292	-0.0005395497
BERYLLIUM	313.042	Radial	1.831650	-0.00003268772	-0.00004533464	-0.0001866658	0.0001339373
CALCIUM	317.933	Radial	8048.573	40.63791	41.14304	40.38231	40.38839
COPPER	324.754	Axial	66.42392	0.001392632	0.001353914	0.001266814	0.001557169
IRON	259.940	Radial	4.202713	0.02552613	0.02257008	0.01847550	0.03553280
MAGNESIUM	279.079	Radial	173.9053	9.265376	9.263797	9.326549	9.205783
MANGANESE	257.610	Axial	1883.962	0.03042551	0.03022220	0.03071553	0.03033879
MOLYBDENUM	202.030	Axial	3.303750	0.001900862	0.002097135	0.001535645	0.002069807
NICKEL	231.604	Axial	19.40626	0.005030614	0.005162891	0.004894825	0.005034127
PHOSPHORUS	177.495	Axial	6.210555	0.08488992	0.08802475	0.08588109	0.08076391
POTASSIUM	766.490	Radial	1607.236	7.092277	7.135988	7.022399	7.118444
SILICON	251.611	Axial	6472.199	1.913178	1.904143	1.927125	1.908265
SODIUM	589.592	Radial	5786.649	8.148926	8.182755	8.120970	8.143052
STRONTIUM	421.552	Radial	4099.006	0.1803176	0.1802878	0.1804466	0.1802185
SULFUR	182.034	Axial	1851.852	28.15585	28.17900	28.33382	27.95472
THALLIUM	190.856	Axial	0.5407920	0.002182806	0.001053040	0.002413202	0.003082176
TIN	189.989	Axial	1.286831	0.001570899	0.001624258	0.001715019	0.001373421
TITANIUM	334.941	Radial	6.601374	0.007808462	0.01006011	0.006291881	0.007073394
VANADIUM	292.402	Radial	-0.4711282	-0.0005173843	-0.01228579	0.001144610	0.009589023
ZINC	206.200	Axial	115.6445	0.003193826	0.003495919	0.003251722	0.002833839
CERIUM	535.353	Radial	25.37110	-0.04579342	0.01975654	-0.1654497	0.008312852
LANTHANUM	333.749	Radial	-1.90400	-0.01153642	-0.01706960	-0.01245330	-0.005086373

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1835142-02 Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 19:53 Sequence: 237

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12518.34	12526.56	12527.19	12501.28
YTTRIUM	360.073	Axial	199220.2	199191.1	199053.2	199416.3
YTTRIUM	360.073	Radial	2585.106	2599.844	2589.513	2565.961
INDIUM	230.606	Axial	5325.860	5303.971	5364.833	5308.777

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.2699974	-0.001795231	-0.0008333164	-0.02131559	-0.004779560
BARIUM	233.527	Axial	34.34921	0.008271566	0.04131437	0.04165833	0.04110080
BORON	249.678	Radial	0.009257716	-0.001466697	0.1016653	0.002994057	-0.1266598
CADMIUM	228.802	Axial	-10.3080	0.00007421072	-0.0001079645	0.0006157685	0.0006053567
CHROMIUM	267.716	Axial	-10.6306	-0.0001409483	0.0009729823	-0.001394183	-0.001693024
COBALT	228.616	Axial	-1.06193	0.0002437272	0.0009308932	0.000007535227	0.002717479
LEAD	220.353	Axial	-1.39897	0.0007794398	-0.01117068	0.007289660	0.01557261
LITHIUM	670.784	Radial	13.65050	0.0006520056	-0.008938914	0.01141128	0.007307722
SELENIUM	196.090	Axial	1.479569	0.002644676	0.01921923	0.01178516	0.008665765
SILVER	328.068	Axial	-15.0787	-0.00009000982	-0.001008415	0.0007293445	-0.001071077
ALUMINUM	308.215	Radial	5.104996	-0.01870943	-0.2580097	-0.2688452	0.2462134
ANTIMONY	206.833	Axial	0.5592294	-0.001422863	-0.007934042	-0.02121171	0.007802813
BERYLLIUM	313.042	Radial	1.333111	-0.00007122978	-0.0004308739	-0.0001406065	-0.0004969662
CALCIUM	317.933	Radial	1618.823	7.923392	39.06098	39.75923	40.03066
COPPER	324.754	Axial	39.93860	-0.00002684896	0.0005211369	0.0004471383	-0.001371010
IRON	259.940	Radial	0.9165139	0.002760098	-0.02379356	0.03010362	0.03509140
MAGNESIUM	279.079	Radial	30.39771	1.754990	8.586461	9.170749	8.567634
MANGANESE	257.610	Axial	356.8841	0.005782776	0.02871561	0.02882707	0.02919896
MOLYBDENUM	202.030	Axial	0.7875341	0.0006045662	0.006792772	0.001021380	0.001254340
NICKEL	231.604	Axial	11.53108	0.0003679308	-0.0001742692	0.006080353	-0.0003871202
PHOSPHORUS	177.495	Axial	0.3661723	0.009885100	0.006824702	0.1004663	0.04098551
POTASSIUM	766.490	Radial	253.5827	1.326834	6.275142	6.669024	6.958349
SILICON	251.611	Axial	1134.390	0.3269828	1.619651	1.635346	1.649746
SODIUM	589.592	Radial	1064.031	1.545315	7.675014	7.677243	7.827472
STRONTIUM	421.552	Radial	747.3893	0.03356310	0.1689110	0.1669696	0.1675657
SULFUR	182.034	Axial	306.0242	4.688548	23.37007	23.64598	23.31217
THALLIUM	190.856	Axial	0.05940849	-0.00007567946	-0.01032280	0.002513111	0.006674499
TIN	189.989	Axial	0.5336117	-0.00008829456	-0.002222105	-0.0008016956	0.001699382
TITANIUM	334.941	Radial	0.6850710	-0.0002726590	0.005110583	-0.004019096	-0.005181372
VANADIUM	292.402	Radial	0.2916181	0.004192878	0.04772067	0.04981742	-0.03464492
ZINC	206.200	Axial	102.7740	0.0004346508	0.0007470345	0.003401830	0.002370898
CERIUM	535.353	Radial	24.88474	-0.04405460	-0.4154080	-0.1251549	-0.1202561
LANTHANUM	333.749	Radial	1.944120	0.003122938	0.03100167	0.03656779	-0.02072540

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1835142-02 Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 19:56 Sequence: 238

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12636.79	12648.22	12648.79	12613.38
YTTRIUM	360.073	Axial	196812.2	196100.5	197537.2	196798.9
YTTRIUM	360.073	Radial	2649.674	2635.271	2669.467	2644.284
INDIUM	230.606	Axial	5118.883	5105.601	5158.222	5092.828

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	218.7460	0.9615315	0.9675876	0.9576913	0.9593157
BARIUM	233.527	Axial	4900.894	0.9598771	0.9623744	0.9591981	0.9580588
BORON	249.678	Radial	49.48218	0.9312165	0.9276405	0.9399344	0.9260746
CADMIUM	228.802	Axial	9883.927	0.9557001	0.9591039	0.9562271	0.9517693
CHROMIUM	267.716	Axial	11677.76	0.9470619	0.9488801	0.9459091	0.9463965
COBALT	228.616	Axial	4884.507	0.9250602	0.9324324	0.9195533	0.9231949
LEAD	220.353	Axial	560.6750	0.9896314	0.9965821	0.9826120	0.9897002
LITHIUM	670.784	Radial	4522.712	0.9525866	0.9572437	0.9484146	0.9521016
SELENIUM	196.090	Axial	165.1678	0.9830785	0.9761619	0.9873100	0.9857637
SILVER	328.068	Axial	2870.892	0.1766449	0.1768990	0.1768274	0.1762084
ALUMINUM	308.215	Radial	304.8787	9.294552	9.315771	9.284347	9.283539
ANTIMONY	206.833	Axial	376.6346	0.9552583	0.9494040	0.9652597	0.9511112
BERYLLIUM	313.042	Radial	11663.69	0.9857592	0.9898766	0.9806663	0.9867346
CALCIUM	317.933	Radial	10321.85	52.50252	52.88314	52.22837	52.39607
COPPER	324.754	Axial	15397.53	0.8365168	0.8392401	0.8330512	0.8372592
IRON	259.940	Radial	1324.404	9.302548	9.360768	9.221545	9.325331
MAGNESIUM	279.079	Radial	365.0992	19.41118	19.42541	19.40790	19.40023
MANGANESE	257.610	Axial	57807.85	0.9459739	0.9504567	0.9419391	0.9455260
MOLYBDENUM	202.030	Axial	1938.109	1.004903	1.007505	1.010496	0.9967075
NICKEL	231.604	Axial	1729.672	1.005064	1.012160	1.001641	1.001390
PHOSPHORUS	177.495	Axial	87.01481	1.125523	1.121472	1.141584	1.113514
POTASSIUM	766.490	Radial	3930.670	17.11098	17.17311	17.07444	17.08539
SILICON	251.611	Axial	9524.244	2.859253	2.875960	2.841555	2.860242
SODIUM	589.592	Radial	12234.97	17.29510	17.39078	17.19999	17.29452
STRONTIUM	421.552	Radial	25699.98	1.136947	1.143073	1.127701	1.140068
SULFUR	182.034	Axial	2649.211	40.39299	40.33113	40.59480	40.25305
THALLIUM	190.856	Axial	217.6216	1.036295	1.035694	1.042017	1.031176
TIN	189.989	Axial	446.6776	0.9938199	0.9951798	1.001241	0.9850388
TITANIUM	334.941	Radial	697.6694	0.9572251	0.9582508	0.9573633	0.9560610
VANADIUM	292.402	Radial	145.2794	0.8905182	0.9025114	0.8889156	0.8801276
ZINC	206.200	Axial	4324.006	1.004123	1.010596	1.002349	0.9994231
CERIUM	535.353	Radial	32.01719	0.005615914	0.01760869	0.02693221	-0.02769316
LANTHANUM	333.749	Radial	-0.5919517	-0.006609668	-0.009831460	-0.002287057	-0.007710486

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1835142-02 Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 19:58 Sequence: 239

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12598.72	12647.34	12550.52	12598.31
YTTRIUM	360.073	Axial	196217.3	195249.1	196963.9	196438.7
YTTRIUM	360.073	Radial	2622.739	2620.337	2623.544	2624.336
INDIUM	230.606	Axial	5103.059	5092.624	5107.046	5109.507

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	217.3069	0.9581073	0.9537515	0.9656648	0.9549056
BARIUM	233.527	Axial	4874.579	0.9576108	0.9613814	0.9593643	0.9520866
BORON	249.678	Radial	49.64871	0.9439980	0.9411061	0.9481234	0.9427646
CADMIUM	228.802	Axial	9799.847	0.9504393	0.9538619	0.9507841	0.9466719
CHROMIUM	267.716	Axial	11568.69	0.9410657	0.9423427	0.9398514	0.9410029
COBALT	228.616	Axial	4840.067	0.9194809	0.9286031	0.9144047	0.9154348
LEAD	220.353	Axial	554.7842	0.9822718	0.9842462	0.9816037	0.9809653
LITHIUM	670.784	Radial	4499.259	0.9573711	0.9558460	0.9571465	0.9591209
SELENIUM	196.090	Axial	165.3407	0.9870987	0.9903600	0.9859545	0.9849816
SILVER	328.068	Axial	2858.681	0.1764294	0.1768935	0.1757567	0.1766381
ALUMINUM	308.215	Radial	299.7906	9.231994	9.146819	9.167337	9.381825
ANTIMONY	206.833	Axial	374.2753	0.9521426	0.9530246	0.9568976	0.9465058
BERYLLIUM	313.042	Radial	11515.80	0.9832326	0.9796236	0.9866974	0.9833768
CALCIUM	317.933	Radial	10364.64	53.26917	53.16896	53.29680	53.34177
COPPER	324.754	Axial	15485.91	0.8438728	0.8420965	0.8486406	0.8408811
IRON	259.940	Radial	1313.139	9.317817	9.315338	9.265420	9.372695
MAGNESIUM	279.079	Radial	362.9037	19.49208	19.40345	19.45027	19.62251
MANGANESE	257.610	Axial	57787.83	0.9485023	0.9486180	0.9498141	0.9470747
MOLYBDENUM	202.030	Axial	1926.382	1.001858	0.9997918	1.006783	0.9990005
NICKEL	231.604	Axial	1714.594	0.9993589	1.009120	0.9940225	0.9949345
PHOSPHORUS	177.495	Axial	86.35534	1.120402	1.128229	1.127074	1.105902
POTASSIUM	766.490	Radial	3917.478	17.22709	17.26089	17.24769	17.17269
SILICON	251.611	Axial	9591.488	2.888235	2.888518	2.890363	2.885825
SODIUM	589.592	Radial	12251.38	17.49567	17.47055	17.51397	17.50250
STRONTIUM	421.552	Radial	25592.24	1.143773	1.141748	1.144847	1.144724
SULFUR	182.034	Axial	2667.178	40.79032	40.71001	40.80723	40.85372
THALLIUM	190.856	Axial	216.8425	1.035820	1.044752	1.034316	1.028394
TIN	189.989	Axial	444.0416	0.9909546	0.9894925	0.9971751	0.9861961
TITANIUM	334.941	Radial	686.2734	0.9512520	0.9539820	0.9491488	0.9506251
VANADIUM	292.402	Radial	144.6729	0.8958743	0.8946618	0.9014569	0.8915043
ZINC	206.200	Axial	4271.364	0.9946739	0.9984487	0.9958725	0.9897004
CERIUM	535.353	Radial	35.91553	0.03833522	0.05812054	-0.03650725	0.09339236
LANTHANUM	333.749	Radial	1.757659	0.002330807	0.0008123813	0.004519140	0.001660900

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835142-04 DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 20:01 Sequence: 240

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12625.04	12623.74	12624.44	12626.94
YTTRIUM	360.073	Axial	197820.2	197714.5	197854.9	197891.2
YTTRIUM	360.073	Radial	2632.285	2627.391	2614.636	2654.830
INDIUM	230.606	Axial	5160.043	5161.124	5148.201	5170.806

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.9470010	0.003571996	0.002314918	0.003424567	0.004976502
BARIUM	233.527	Axial	333.1304	0.06669649	0.06724539	0.06656881	0.06627526
BORON	249.678	Radial	2.116279	0.03861470	0.03639564	0.04034302	0.03910543
CADMIUM	228.802	Axial	-12.6189	-0.0001407148	0.00001019082	-0.0001631271	-0.0002692082
CHROMIUM	267.716	Axial	2.370190	0.0009012566	0.001139247	0.0009115151	0.0006530074
COBALT	228.616	Axial	2.480133	0.0009020696	0.001127010	0.0009704407	0.0006087586
LEAD	220.353	Axial	-1.07193	0.001278490	-0.0003682519	0.002648366	0.001555355
LITHIUM	670.784	Radial	39.10498	0.006005669	0.006898866	0.005913924	0.005204216
SELENIUM	196.090	Axial	0.9409767	-0.0006592261	0.002984438	-0.0001012784	-0.004860838
SILVER	328.068	Axial	-27.2599	-0.0008388064	-0.0008804784	-0.001017829	-0.0006181120
ALUMINUM	308.215	Radial	5.252738	-0.01758059	0.05233952	-0.1298389	0.02475762
ANTIMONY	206.833	Axial	1.575803	0.001151419	0.001665179	0.0004686972	0.001320381
BERYLLIUM	313.042	Radial	2.385129	0.00001642535	-0.0002291968	0.0002127580	0.00006571482
CALCIUM	373.690	Radial	10331.29	62.60139	62.70167	62.77612	62.32637
CERIUM	535.353	Radial	29.92892	-0.008758265	-0.02276614	0.009259874	-0.01276853
COPPER	324.754	Axial	52.79577	0.0006850604	0.0009316566	0.0006784884	0.0004450362
IRON	259.940	Radial	1.801819	0.008862230	0.005269542	0.007697941	0.01361921
LANTHANUM	333.749	Radial	-0.8703594	-0.007700515	-0.001095301	-0.01952050	-0.002485746
MAGNESIUM	279.079	Radial	271.5679	14.56060	14.41541	14.61143	14.65496
MANGANESE	257.610	Axial	14313.62	0.2330438	0.2333038	0.2330235	0.2328041
MOLYBDENUM	202.030	Axial	3.931710	0.002232739	0.001933419	0.002042628	0.002722171
NICKEL	231.604	Axial	17.58313	0.004088529	0.003210617	0.004122992	0.004931977
PHOSPHORUS	177.495	Axial	2.086485	0.03201842	0.03612457	0.03850697	0.02142374
POTASSIUM	766.490	Radial	1690.615	7.526798	7.505468	7.585300	7.489625
SILICON	251.611	Axial	5371.726	1.599697	1.607847	1.599274	1.591970
SODIUM	589.592	Radial	8754.767	12.45832	12.49230	12.47472	12.40793
STRONTIUM	421.552	Radial	6040.340	0.2687199	0.2675387	0.2693627	0.2692584
SULFUR	182.034	Axial	3241.110	49.46944	49.70086	49.43138	49.27609
THALLIUM	190.856	Axial	0.1482912	0.0003559925	0.001810752	-0.00007606315	-0.0006667109
TIN	189.989	Axial	1.030109	0.001008369	0.001218093	0.0001136280	0.001693387
TITANIUM	334.941	Radial	8.131736	0.01000411	0.008943133	0.009199600	0.01186961
VANADIUM	292.402	Radial	0.7143267	0.006827473	0.009455207	0.01001484	0.001012372
ZINC	206.200	Axial	118.5369	0.003978468	0.004066298	0.004204356	0.003664749

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835142-07 DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 20:04 Sequence: 241

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12613.03	12635.48	12567.88	12635.73
YTTRIUM	360.073	Axial	197772.8	197029.9	198246.8	198041.7
YTTRIUM	360.073	Radial	2613.588	2595.201	2643.209	2602.355
INDIUM	230.606	Axial	5219.485	5209.041	5207.349	5242.064

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.2635914	0.0005666196	0.001471342	0.001736681	-0.001508164
BARIUM	233.527	Axial	328.0646	0.06576656	0.06621770	0.06605979	0.06502217
BORON	249.678	Radial	0.5550421	0.009140166	0.03210411	-0.001544057	-0.003139555
CADMIUM	228.802	Axial	-12.5293	-0.0001330161	-0.0001027092	-0.00002266216	-0.0002736770
CHROMIUM	267.716	Axial	-0.3718344	0.0006805476	0.0009662974	0.0007972001	0.0002781453
COBALT	228.616	Axial	-0.3197322	0.0003764886	0.0002128597	0.0004172472	0.0004993590
LEAD	220.353	Axial	-1.15697	0.001155460	0.002417216	0.001475225	-0.0004260620
LITHIUM	670.784	Radial	31.56477	0.004453314	0.005579315	0.003735785	0.004044841
SELENIUM	196.090	Axial	1.733608	0.004109541	0.004565822	0.007915073	-0.0001522713
SILVER	328.068	Axial	-29.0346	-0.0009487613	-0.001743960	-0.0007554987	-0.0003468255
ALUMINUM	308.215	Radial	7.718400	0.06163961	0.03502611	0.05284931	0.09704341
ANTIMONY	206.833	Axial	0.8296356	-0.0007434986	-0.002216264	0.0009438262	-0.0009580577
BERYLLIUM	313.042	Radial	0.3050842	-0.0001617541	-0.0003662854	0.00003907154	-0.0001580485
CALCIUM	317.933	Radial	8201.437	42.17370	42.24789	41.89626	42.37693
CERIUM	535.353	Radial	32.82335	0.01557217	0.02571898	-0.03307405	0.05407157
COPPER	324.754	Axial	55.43978	0.0008291596	0.0008879167	0.0006269406	0.0009726216
IRON	259.940	Radial	0.6793151	0.001015061	0.004796358	-0.005916091	0.004164916
LANTHANUM	333.749	Radial	1.857951	0.002764899	0.004715437	-0.002054669	0.005633927
MAGNESIUM	279.079	Radial	141.4821	7.691187	7.614906	7.723441	7.735213
MANGANESE	257.610	Axial	55.43934	0.0009163715	0.0009739516	0.0007975659	0.0009775972
MOLYBDENUM	202.030	Axial	2.540600	0.001512297	0.001331000	0.001562697	0.001643194
NICKEL	231.604	Axial	14.81128	0.002384431	0.003293767	0.001843252	0.002016273
PHOSPHORUS	177.495	Axial	1.738911	0.02755917	0.02633452	0.02741011	0.02893287
POTASSIUM	766.490	Radial	1234.995	5.592754	5.580317	5.580904	5.617040
SILICON	251.611	Axial	1841.174	0.5413909	0.5393835	0.5426385	0.5421507
SODIUM	589.592	Radial	11998.69	17.19526	17.17798	17.11974	17.28808
STRONTIUM	421.552	Radial	4463.707	0.1999174	0.1995921	0.1993823	0.2007778
SULFUR	182.034	Axial	1012.712	15.45502	15.45737	15.43848	15.46920
THALLIUM	190.856	Axial	-0.02271079	-0.0004524373	-0.002562255	0.0009753325	0.0002296103
TIN	189.989	Axial	0.1362952	-0.0009830013	-0.002605774	-0.0001919205	-0.0001513098
TITANIUM	334.941	Radial	5.047197	0.005792110	0.003203968	0.006142456	0.008029907
VANADIUM	292.402	Radial	-1.22697	-0.005173423	0.002536494	-0.008434141	-0.009622622
ZINC	206.200	Axial	111.5858	0.002349238	0.002215260	0.002461282	0.002371171

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835192-01 DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 20:07 Sequence: 242

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12625.20	12636.02	12624.26	12615.33
YTTRIUM	360.073	Axial	198716.0	199510.1	198401.0	198236.8
YTTRIUM	360.073	Radial	2646.440	2650.523	2679.858	2608.937
INDIUM	230.606	Axial	5213.866	5202.444	5242.796	5196.357

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.1802653	-0.001390354	-0.001712033	-0.001908620	-0.0005504085
BARIUM	233.527	Axial	217.2129	0.04400650	0.04417620	0.04447352	0.04336977
BORON	249.678	Radial	1.329829	0.02336488	0.02819972	0.04184511	0.00004980040
CADMIUM	228.802	Axial	-12.4448	-0.0001238902	-0.00008125771	-0.0001749289	-0.0001154841
CHROMIUM	267.716	Axial	-0.5261052	0.0006674585	0.0008860700	0.0004329969	0.0006833087
COBALT	228.616	Axial	1.965640	0.0008010487	0.0008534194	0.0009142993	0.0006354273
LEAD	220.353	Axial	-0.2483019	0.002720641	0.0004624159	0.002646691	0.005052816
LITHIUM	670.784	Radial	40.06460	0.006170216	0.007615932	0.004339422	0.006555294
SELENIUM	196.090	Axial	1.683033	0.003786766	0.009114328	0.002837275	-0.0005913037
SILVER	328.068	Axial	-20.9021	-0.0004467904	0.0001510720	-0.0009588670	-0.0005325761
ALUMINUM	308.215	Radial	6.155159	0.009764626	0.1432317	-0.04754660	-0.06639119
ANTIMONY	206.833	Axial	0.2784308	-0.002150103	-0.005176415	-0.003419063	0.002145170
BERYLLIUM	313.042	Radial	0.1110323	-0.0001772737	-0.0002077247	-0.0001588715	-0.0001652249
CALCIUM	317.933	Radial	8714.612	44.28977	44.09491	43.88098	44.89343
CERIUM	535.353	Radial	31.42916	0.001022681	-0.003894446	0.05318211	-0.04621962
COPPER	324.754	Axial	107.6391	0.003630697	0.003611944	0.003866520	0.003413627
IRON	259.940	Radial	3.366982	0.01977261	0.02502036	0.02241750	0.01187997
LANTHANUM	333.749	Radial	-0.7495801	-0.007265227	-0.005404565	0.00007951027	-0.01647063
MAGNESIUM	279.079	Radial	189.1744	10.12385	10.07015	9.941038	10.36038
MANGANESE	257.610	Axial	963.8933	0.01563555	0.01547198	0.01560907	0.01582562
MOLYBDENUM	202.030	Axial	2.935824	0.001716077	0.001476810	0.001979260	0.001692161
NICKEL	231.604	Axial	21.16170	0.006035362	0.006138280	0.006802136	0.005165671
PHOSPHORUS	177.495	Axial	5.848772	0.08050186	0.08813761	0.07703902	0.07632894
POTASSIUM	766.490	Radial	1743.100	7.713939	7.644902	7.693865	7.803050
SILICON	251.611	Axial	6904.407	2.049861	2.044992	2.046418	2.058173
SODIUM	589.592	Radial	6260.848	8.862921	8.849436	8.850904	8.888423
STRONTIUM	421.552	Radial	4423.746	0.1956618	0.1960143	0.1951013	0.1958699
SULFUR	182.034	Axial	2004.181	30.58025	30.67788	30.65569	30.40718
THALLIUM	190.856	Axial	-0.3997574	-0.002214738	-0.001975252	-0.002216438	-0.002452524
TIN	189.989	Axial	-0.01995270	-0.001332641	-0.002557177	-0.0005020141	-0.0009387322
TITANIUM	334.941	Radial	5.257145	0.006000960	0.006182272	0.005542545	0.006278063
VANADIUM	292.402	Radial	-0.2284966	0.001082309	0.006721585	-0.01053294	0.007058281
ZINC	206.200	Axial	114.7236	0.003070366	0.003056044	0.003046712	0.003108343

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835192-02 DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 20:10 Sequence: 243

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12518.49	12532.50	12529.42	12493.53
YTTRIUM	360.073	Axial	197486.4	197379.9	196723.5	198355.8
YTTRIUM	360.073	Radial	2649.457	2618.256	2698.442	2631.673
INDIUM	230.606	Axial	5153.475	5170.554	5123.552	5166.319

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.2792535	0.0006447645	0.0004889369	-0.001212326	0.002657683
BARIUM	233.527	Axial	309.8618	0.06265800	0.06305673	0.06243684	0.06248042
BORON	249.678	Radial	2.109267	0.03824121	0.04135837	0.03647972	0.03688555
CADMIUM	228.802	Axial	-11.5027	-0.00004237909	-0.0002069850	0.0002335631	-0.0001537153
CHROMIUM	267.716	Axial	1.969722	0.0008694343	0.001039768	0.0008651451	0.0007033899
COBALT	228.616	Axial	3.155525	0.001030152	0.001267141	0.001321047	0.0005022676
LEAD	220.353	Axial	-1.38403	0.0007381899	-0.001228383	0.003609323	-0.0001663695
LITHIUM	670.784	Radial	47.59369	0.007738151	0.005834108	0.007757560	0.009622784
SELENIUM	196.090	Axial	1.117970	0.0004573449	0.003933546	-0.001917887	-0.0006436244
SILVER	328.068	Axial	-20.8923	-0.0004529191	-0.0001415695	-0.0006298263	-0.0005873614
ALUMINUM	308.215	Radial	4.524748	-0.04142147	-0.08136370	0.007137747	-0.05003845
ANTIMONY	206.833	Axial	0.6496394	-0.001190477	-0.0003679512	-0.004478765	0.001275287
BERYLLIUM	313.042	Radial	-1.19293	-0.0002907822	-0.0004716690	0.00006217349	-0.0004628512
CALCIUM	373.690	Radial	10325.61	62.16883	62.62207	61.19975	62.68468
CERIUM	535.353	Radial	36.00851	0.03593494	-0.01422836	0.06260474	0.05942845
COPPER	324.754	Axial	60.40228	0.001103157	0.001323784	0.001127567	0.0008581211
IRON	259.940	Radial	4.510404	0.02784584	0.03848448	0.02831314	0.01673990
LANTHANUM	333.749	Radial	1.202933	0.0002277538	0.007816930	-0.004772198	-0.002361471
MAGNESIUM	279.079	Radial	275.6996	14.68922	14.97724	14.32113	14.76928
MANGANESE	257.610	Axial	30164.94	0.4919427	0.4926087	0.4931279	0.4900914
MOLYBDENUM	202.030	Axial	3.164694	0.001848879	0.001080010	0.002561848	0.001904778
NICKEL	231.604	Axial	18.95505	0.004900968	0.004503235	0.005695438	0.004504230
PHOSPHORUS	177.495	Axial	1.513250	0.02479803	0.01845099	0.02933416	0.02660894
POTASSIUM	766.490	Radial	1685.823	7.459529	7.543123	7.358455	7.477010
SILICON	251.611	Axial	5432.817	1.620773	1.620436	1.624968	1.616916
SODIUM	589.592	Radial	8872.388	12.54544	12.64871	12.35193	12.63568
STRONTIUM	421.552	Radial	6059.071	0.2678060	0.2683578	0.2679054	0.2671548
SULFUR	182.034	Axial	3255.857	50.11776	50.56746	49.69649	50.08934
THALLIUM	190.856	Axial	-0.3945332	-0.002207682	-0.002033409	-0.0006875212	-0.003902117
TIN	189.989	Axial	0.1094653	-0.001041312	-0.001170062	-0.002091089	0.0001372151
TITANIUM	334.941	Radial	7.040046	0.008454082	0.009729044	0.006930054	0.008703150
VANADIUM	292.402	Radial	0.7141232	0.006732341	-0.004936025	0.009154933	0.01597812
ZINC	206.200	Axial	139.7687	0.009315837	0.009556744	0.009060719	0.009330049

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/18/25 20:12 Sequence: 244 Standard ID: 25C17425

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12295.43	12293.41	12284.33	12308.54
YTTRIUM	360.073	Axial	192152.6	191819.2	191665.0	192973.6
YTTRIUM	360.073	Radial	2574.301	2576.117	2596.659	2550.129
INDIUM	230.606	Axial	4959.415	4933.015	4955.960	4989.269

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	297.8546	9.347735	9.391595	9.239513	9.412098
ANTIMONY	206.833	Axial	182.3622	0.4739314	0.4728002	0.4748788	0.4741150
ARSENIC	189.042	Axial	209.6102	0.9469525	0.9452531	0.9561719	0.9394326
BARIUM	233.527	Axial	2369.003	0.4776204	0.4770605	0.4783986	0.4774020
BERYLLIUM	313.042	Radial	2328.238	0.2023879	0.2024147	0.2010755	0.2036735
BORON	249.678	Radial	49.12528	0.9515569	0.9623761	0.9583337	0.9339609
CADMIUM	228.802	Axial	4947.820	0.4922195	0.4971812	0.4812503	0.4982270
CALCIUM	317.933	Radial	9185.025	48.03646	48.07243	47.77110	48.26584
CHROMIUM	267.716	Axial	11630.38	0.9660792	0.9691238	0.9655511	0.9635626
COBALT	228.616	Axial	4859.148	0.9498552	0.9590226	0.9506918	0.9398511
COPPER	324.754	Axial	15463.33	0.8605193	0.8635197	0.8584073	0.8596308
IRON	259.940	Radial	1327.651	9.598435	9.556505	9.579802	9.658998
LEAD	220.353	Axial	273.3306	0.4995272	0.5018474	0.5019011	0.4948330
LITHIUM	670.784	Radial	4438.270	0.9622174	0.9564094	0.9585073	0.9717354
MAGNESIUM	279.079	Radial	182.6095	10.04619	9.960458	9.947639	10.23046
MANGANESE	257.610	Axial	56007.67	0.9387341	0.9417523	0.9376375	0.9368125
MOLYBDENUM	202.030	Axial	483.2774	0.2576807	0.2558965	0.2598616	0.2572838
NICKEL	231.604	Axial	1726.401	1.035641	1.044157	1.041461	1.021304
PHOSPHORUS	177.495	Axial	77.83974	1.035227	1.034152	1.043473	1.028057
POTASSIUM	766.490	Radial	10840.07	48.18709	48.20064	47.99625	48.36439
SELENIUM	196.090	Axial	158.1579	0.9673921	0.9680569	0.9725370	0.9615824
SILICON	251.611	Axial	6110.912	1.875330	1.868114	1.880707	1.877170
SILVER	328.068	Axial	7780.726	0.4888939	0.4889464	0.4886846	0.4890506
SODIUM	589.592	Radial	32045.79	46.61917	46.48433	46.45131	46.92189
STRONTIUM	421.552	Radial	21657.80	0.9861378	0.9856547	0.9803235	0.9924353
SULFUR	182.034	Axial	325.9526	5.086494	5.073925	5.100768	5.084788
THALLIUM	190.856	Axial	203.8226	1.001789	0.9963493	1.003376	1.005643
TIN	189.989	Axial	218.4792	0.4989575	0.4972090	0.5010616	0.4986019
TITANIUM	334.941	Radial	695.8051	0.9826539	0.9797533	0.9837364	0.9844721
VANADIUM	292.402	Radial	152.4096	0.9614272	0.9448573	0.9603331	0.9790913
ZINC	206.200	Axial	4301.792	1.027253	1.031532	1.032220	1.018009
CERIUM	535.353	Radial	20.04699	-0.08144486	-0.05212304	-0.1007152	-0.09149638
HOT WATER SOL. BORON	249.678	Radial	49.12528	0.9515569	0.9623761	0.9583337	0.9339609
LANTHANUM	333.749	Radial	2.229092	0.004287997	0.006620609	0.002675542	0.003567839

Sample ID: CCB Units: mg/l
Analyzed: 03/18/25 20:15 Sequence: 245

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12414.18	12393.09	12418.38	12431.06
YTTRIUM	360.073	Axial	199137.4	197977.3	199561.3	199873.5
YTTRIUM	360.073	Radial	2522.675	2537.188	2503.342	2527.495
INDIUM	230.606	Axial	5343.624	5320.290	5382.283	5328.299

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5.119258	-0.01465088	0.07757528	-0.03458751	-0.08694042
ANTIMONY	206.833	Axial	1.870136	0.001981969	0.002389508	0.001380236	0.002176164
ARSENIC	189.042	Axial	-0.4431646	-0.002580347	-0.0008773493	-0.005141893	-0.001721800
BARIUM	233.527	Axial	-6.57568	0.0001820273	0.0001487905	0.0004440891	-0.00004679784
BERYLLIUM	313.042	Radial	-0.1944120	-0.0002033930	-0.0003926111	-0.0001121194	-0.0001054484
BORON	249.678	Radial	-0.7776482	-0.01686257	-0.04036439	-0.001544057	-0.008679264
CADMIUM	228.802	Axial	-9.07709	0.0001868018	0.0001869818	0.0002709514	0.0001024721
CALCIUM	317.933	Radial	116.1751	0.01229719	0.009603634	0.01034209	0.01694585
CERIUM	535.353	Radial	28.56468	-0.009688499	-0.04458729	-0.004488472	0.02001027
CHROMIUM	267.716	Axial	-5.97316	0.0002328960	0.0007100872	-0.0003432687	0.0003318695
COBALT	228.616	Axial	-2.95854	-0.0001006587	-0.0001459112	-0.00002477818	-0.0001312866
COPPER	324.754	Axial	23.91593	-0.0008895584	-0.001219136	-0.0006825834	-0.0007669558
HOT WATER SOL. BORON	249.678	Radial	-0.7776482	-0.01686257	-0.04036439	-0.001544057	-0.008679264
IRON	259.940	Radial	2.707882	0.01608843	0.02303835	0.008529838	0.01669709
LANTHANUM	333.749	Radial	1.286823	0.0007531145	0.0001207479	0.006829069	-0.004690474
LEAD	220.353	Axial	-1.55431	0.0005321112	0.0002911246	-0.0004917556	0.001796965
LITHIUM	670.784	Radial	11.41476	0.0002283070	-0.00008480651	0.001574449	-0.0008047212
MAGNESIUM	279.079	Radial	-1.11092	0.04621695	0.04103675	0.09608779	0.001526325
MANGANESE	257.610	Axial	15.31044	0.0002611332	0.0002777202	0.0003080037	0.0001976757
MOLYBDENUM	202.030	Axial	-1.30955	-0.0004981413	-0.0003115303	-0.0003807143	-0.0008021795
NICKEL	231.604	Axial	9.808885	-0.0006154636	-0.001081116	-0.0005356169	-0.0002296578
PHOSPHORUS	177.495	Axial	-0.8512675	-0.006034191	-0.009442073	-0.006412805	-0.002247696
POTASSIUM	766.490	Radial	-55.8379	-0.04355600	0.03248461	-0.09617977	-0.06697285
SELENIUM	196.090	Axial	0.4491413	-0.003558322	-0.0009182636	0.001488328	-0.01124503
SILICON	251.611	Axial	37.13675	0.0003519043	0.0003006902	-0.0001369025	0.0008919251
SILVER	328.068	Axial	-14.5669	-0.00005943990	0.00001563634	-0.0003788416	0.0001848855
SODIUM	589.592	Radial	33.63328	0.05389976	0.04996249	0.05345083	0.05828595
STRONTIUM	421.552	Radial	5.540743	-0.00007796711	-0.00007522635	-0.0001907379	0.00003206291
SULFUR	182.034	Axial	2.054131	0.007444503	0.01108714	-0.002071815	0.01331818
THALLIUM	190.856	Axial	-0.6338507	-0.003246091	-0.004333182	-0.0008504663	-0.004554624
TIN	189.989	Axial	0.1781560	-0.0008839469	-0.00007514147	-0.001371586	-0.001205114
TITANIUM	334.941	Radial	0.7869059	-0.0001008088	0.001037967	-0.0005871112	-0.0007532825
VANADIUM	292.402	Radial	0.2707882	0.004123033	0.007459767	-0.001501910	0.006411241
ZINC	206.200	Axial	101.1539	0.0002494725	0.0002372406	0.0003430685	0.0001681082

Sample ID: ICSA Units: mg/l
Analyzed: 03/18/25 22:40 Sequence: 298 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11297.89	11266.99	11307.22	11319.45
YTTRIUM	360.073	Axial	175439.1	175901.7	174661.3	175754.3
YTTRIUM	360.073	Radial	2450.895	2455.363	2442.949	2454.373
INDIUM	230.606	Axial	4231.344	4219.816	4224.004	4250.213

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	13444.87	451.5991	450.7997	452.4132	451.5844
ANTIMONY	206.833	Axial	1.413310	0.001153924	-0.003528422	0.003276556	0.003713638
ARSENIC	189.042	Axial	-0.2363224	-0.001754868	0.001209454	-0.001165806	-0.005308252
BARIUM	233.527	Axial	-0.3670973	0.001410070	0.001006414	0.001574331	0.001649464
BERYLLIUM	313.042	Radial	-1.49614	-0.0003232637	-0.0002170013	-0.0002323547	-0.0005204353
BORON	249.678	Radial	-7.15640	-0.1474000	-0.1639083	-0.1543816	-0.1239100
CADMIUM	228.802	Axial	-7.84177	0.0002319677	0.0001197527	0.0004907116	0.00008543875
CALCIUM	373.690	Radial	73104.50	476.0355	474.3802	476.2414	477.4850
CERIUM	535.353	Radial	-0.6921008	-0.2451583	-0.2819813	-0.2662954	-0.1871981
CHROMIUM	267.716	Axial	9.418503	0.001566072	0.001811978	0.001473205	0.001413033
COBALT	228.616	Axial	3.354519	0.001204682	0.001645896	0.0008873155	0.001080835
COPPER	324.754	Axial	16.41115	-0.001172786	-0.001274821	-0.0009455079	-0.001298029
HOT WATER SOL. BORON	249.678	Radial	-7.15640	-0.1474000	-0.1639083	-0.1543816	-0.1239100
IRON	271.441	Radial	1643.596	196.1821	195.7484	196.3287	196.4692
LANTHANUM	333.749	Radial	-2.52083	-0.01463455	-0.01394214	-0.01567887	-0.01428264
LEAD	220.353	Axial	-0.7216022	0.001618508	0.005209797	0.0003383914	-0.0006926638
LITHIUM	670.784	Radial	84.26948	0.01692851	0.01670083	0.01787200	0.01621272
MAGNESIUM	279.079	Radial	9100.709	520.3018	519.3355	519.6939	521.8760
MANGANESE	257.610	Axial	44.95957	0.0008386103	0.0008020991	0.0007524770	0.0009612547
MOLYBDENUM	202.030	Axial	-0.6508190	-0.0001843129	0.0001022919	-0.0003600120	-0.0002952185
NICKEL	231.604	Axial	15.51877	0.004869091	0.006114347	0.004372088	0.004120837
PHOSPHORUS	177.495	Axial	-0.6375768	-0.004061363	-0.007719749	-0.004790611	0.0003262710
POTASSIUM	766.490	Radial	-42.6619	0.01058547	0.03047175	0.01889758	-0.01761292
SELENIUM	196.090	Axial	-1.63532	-0.01726648	-0.02049494	-0.02671091	-0.004593592
SILICON	251.611	Axial	-17.9530	-0.01677731	-0.01648745	-0.01730759	-0.01653690
SILVER	328.068	Axial	-40.0925	-0.001931734	-0.001831600	-0.001629999	-0.002333604
SODIUM	589.592	Radial	124.8297	0.1946717	0.2136866	0.1834150	0.1869134
STRONTIUM	421.552	Radial	147.9453	0.006742394	0.006876614	0.006658885	0.006691684
SULFUR	182.034	Axial	3.883945	0.04184094	0.05407609	0.04501842	0.02642830
THALLIUM	190.856	Axial	0.1501145	0.0005281807	0.002983374	0.001630639	-0.003029470
TIN	189.989	Axial	-1.24912	-0.004400272	-0.004124326	-0.002920005	-0.006156485
TITANIUM	334.941	Radial	29.55780	0.04267186	0.04178291	0.04600118	0.04023150
VANADIUM	292.402	Radial	4.120219	0.02965541	0.03051469	0.04205614	0.01639540
ZINC	206.200	Axial	375.6774	0.07569654	0.07638276	0.07539987	0.07530699

Sample ID: ICSAB Units: mg/l
Analyzed: 03/18/25 22:43 Sequence: 299 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11151.73	11130.23	11161.51	11163.44
YTTRIUM	360.073	Axial	173398.7	172852.7	174133.8	173209.6
YTTRIUM	360.073	Radial	2468.524	2457.250	2464.526	2483.795
INDIUM	230.606	Axial	4152.236	4152.759	4165.228	4138.722

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	13511.77	450.6092	452.4130	450.3493	449.0654
ANTIMONY	206.833	Axial	168.3882	0.4825496	0.4841170	0.4875683	0.4759635
ARSENIC	189.042	Axial	94.79252	0.4718651	0.4765304	0.4718056	0.4672592
BARIUM	233.527	Axial	2102.533	0.4674043	0.4689782	0.4673516	0.4658830
BERYLLIUM	313.042	Radial	5485.100	0.4974908	0.5002221	0.4939603	0.4982900
BORON	249.678	Radial	40.52984	0.8185909	0.8261283	0.8221642	0.8074801
CADMIUM	228.802	Axial	9093.509	0.9963272	1.000705	0.9956184	0.9926579
CALCIUM	373.690	Radial	73344.51	474.1921	476.2601	473.2843	473.0318
CERIUM	535.353	Radial	-9.29426	-0.3154266	-0.2297945	-0.3029695	-0.4135158
CHROMIUM	267.716	Axial	5106.320	0.4703965	0.4697654	0.4687205	0.4727034
COBALT	228.616	Axial	2041.225	0.4767801	0.4778738	0.4760223	0.4764443
COPPER	324.754	Axial	7313.255	0.4499590	0.4503800	0.4481144	0.4513827
HOT WATER SOL. BORON	249.678	Radial	40.52984	0.8185909	0.8261283	0.8221642	0.8074801
IRON	271.441	Radial	1626.819	192.7913	193.2721	192.8911	192.2107
LANTHANUM	333.749	Radial	-3.09629	-0.01687667	-0.01495021	-0.01535542	-0.02032437
LEAD	220.353	Axial	464.4415	1.010515	1.012696	1.014405	1.004443
LITHIUM	670.784	Radial	93.65740	0.01891555	0.01724785	0.02058927	0.01890953
MAGNESIUM	279.079	Radial	9082.757	515.5711	515.2614	516.7905	514.6614
MANGANESE	257.610	Axial	24447.43	0.4540857	0.4544312	0.4517725	0.4560533
MOLYBDENUM	202.030	Axial	845.7414	0.4970138	0.4987148	0.4970147	0.4953118
NICKEL	231.604	Axial	1466.200	1.050570	1.057462	1.048430	1.045819
PHOSPHORUS	177.495	Axial	-0.08298363	0.003918251	0.006802499	-0.009171257	0.01412351
POTASSIUM	766.490	Radial	-45.4981	-0.001285594	-0.04113487	-0.01802836	0.05530645
SELENIUM	196.090	Axial	69.27985	0.4639678	0.4734730	0.4549104	0.4635202
SILICON	251.611	Axial	2766.119	0.9353529	0.9337614	0.9314312	0.9408659
SILVER	328.068	Axial	12088.61	0.8411408	0.8410179	0.8373800	0.8450246
SODIUM	589.592	Radial	124.8930	0.1933759	0.1759891	0.1981232	0.2060153
STRONTIUM	421.552	Radial	148.4683	0.006717094	0.006888147	0.006577897	0.006685238
SULFUR	182.034	Axial	5.842927	0.07657303	0.09458246	0.05004601	0.08509063
THALLIUM	190.856	Axial	82.46416	0.4839214	0.4878896	0.4871022	0.4767725
TIN	189.989	Axial	182.9147	0.4604828	0.4645021	0.4590584	0.4578878
TITANIUM	334.941	Radial	358.8095	0.5278746	0.5248744	0.5328933	0.5258559
VANADIUM	292.402	Radial	72.98652	0.4813070	0.4798196	0.4804496	0.4836517
ZINC	206.200	Axial	3899.203	1.026594	1.031007	1.026344	1.022432

200.7 WW Metals Prep Benchsheet

Workgroup: WG2467972

Prep Start Date/Time: 03/13/25 08:31-08:35 **Analyst:** HFM3829 **Analyst Verified pH:** HFM3829 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Pipette ID:** F13412601
HotBlock ID: MPA **Thermometer ID#:** 919033 **Thermometer Location:** G3 **Pipette Tip Lot#:** 24440172 **Filter Lot#:** NA **Dig. Start Date/Time:** 03/13/25 09:04:22
pH Lot #: 10BDH40241 **Reflux Cap Lot#:** LV24070610-4299-IM **Prep End Date/Time:** 03/13/25 13:59 **Method:** 200.7 **SOP:** ENV-SOP-MTJL-0208

1:1 HNO3: 25B24121 Amt. Used: 1 mL Exp. Date:07/24/25 **Hydrochloric Acid:** 25C06016 Amt. Used: 0.50 mL Exp. Date:09/06/25
High Spike: 25A31301 Amt. Used: 0.25 mL Exp. Date:07/31/25 **High Spike 2:** 25A31332 Amt. Used: 0.25 mL Exp. Date:07/31/25

Sample Number	ListType	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK		25	25	REAGENT WATER	7	HFM3829	03/13/25 13:59:37
LCS		25	25	REAGENT WATER	7	HFM3829	03/13/25 13:59:37
MS(L1835084-01)		25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
MS(L1835084-02)		25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
MSD(L1835084-01)		25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
MSD(L1835084-02)		25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
1. L1835052-03	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
2. L1835084-01	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
3. L1835084-02	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
4. L1835142-01	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
5. L1835142-03	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
6. L1835142-05	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
7. L1835142-06	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
8. L1835143-01	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
9. L1835163-01	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
10. L1835163-02	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
11. L1835163-03	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
12. L1835163-04	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
13. L1835163-05	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
14. L1835163-06	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
15. L1835163-07	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
16. L1835163-08	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
17. L1835163-09	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
18. L1835163-10	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
19. L1835163-11	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37
20. L1835163-12	ICP METALS	25	25	COLORLESS	<2	HFM3829	03/13/25 13:59:37

Comments:
PEER REVIEWED BY MKH4302 3/13

Reviewed By:HFM3829 on 03/13/25 13:59:37

#	Type	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Hotblock	0.0	03/13/25 09:04:43	92	92	03/13/25 13:20:05	92	92	BLANK, LCS, MS(L1835084-01), MS(L1835084-02), MSD(L1835084-01), MSD(L1835084-02), L1835052-03, L1835084-01, L1835084-02, L1835142-01, L1835142-03, L1835142-05, L1835142-06, L1835143-01, L1835163-01, L1835163-02, L1835163-03, L1835163-04, L1835163-05, L1835163-06, L1835163-07, L1835163-08, L1835163-09, L1835163-10, L1835163-11, L1835163-12

200.7 WW DISS. Metals Prep Benchsheet

Workgroup: WG2470166

Prep Start Date/Time: 03/18/25 06:55-06:56 **Analyst:** AXP4121 **Analyst Verified pH:** AXP4121 **Vessel ESC Lot ID:** LV24080204-F-5016-IM **Pipette ID:** VU23216
HotBlock ID: MPE **Thermometer ID#:** 919309 **Thermometer Location:** E6 **Pipette Tip Lot#:** 24440174 **Filter Lot#:** 00358007-2
Dig. Start Date/Time: 03/18/25 07:00:40 **pH Lot #:** 10BDH40241 **Reflux Cap Lot#:** LV24061004-4323 **Syringe Lot#:** 4274716 **Method:** 200.7
Prep End Date/Time: 03/18/25 13:38 **SOP:** ENV-SOP-MTJL-0208

1:1 HNO3: 25C12740 Amt. Used: 1 mL Exp. Date:08/06/25 **Hydrochloric Acid:** 25C11505 Amt. Used: 0.50 mL Exp. Date:09/11/25
High Spike: 25C05705 Amt. Used: 0.25 mL Exp. Date:09/05/25 **High Spike 2:** 25C05706 Amt. Used: 0.25 mL Exp. Date:09/05/25

Sample Number	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK	25	25	Reagent Water	7	AXP4121	03/18/25 13:39:15
LCS	25	25	Reagent Water	7	AXP4121	03/18/25 13:39:15
MS(L1835142-02)	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15
MSD(L1835142-02)	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15
1. L1835142-02	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15
2. L1835142-04	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15
3. L1835142-07	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15
4. L1835192-01	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15
5. L1835192-02	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15

Comments:
Peer Reviewed -BAR4050

Reviewed By:AXP4121 on 03/18/25 13:39:15

#	Type	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Hotblock	0.0	03/18/25 07:00:05	95	95	03/18/25 11:30:10	95	95	BLANK, LCS, MS(L1835142-02), MSD(L1835142-02), L1835142-02, L1835142-04, L1835142-07, L1835192-01, L1835192-02

218.6 Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-S-SW

Lab Sample ID:	L1835142-01	**SDG:**	L1835142
Client Sample ID:	MONTROSE-LAKE-S-SW	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	29.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 02:36
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 02:36
Dilution Factor:	1	**Prep Method:**	218.6
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE-LAKE-S-SW-FILTERED

Lab Sample ID:	L1835142-02	**SDG:**	L1835142
Client Sample ID:	MONTROSE-LAKE-S-SW-FILTERED	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	30.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 02:47
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 02:47
Dilution Factor:	1	**Prep Method:**	218.6
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DEEPWATER-S-SW

Lab Sample ID:	L1835142-03	**SDG:**	L1835142
Client Sample ID:	DEEPWATER-S-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	31.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 02:58
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 02:58
Dilution Factor:	1	**Prep Method:**	218.6
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DEEPWATER-S-SW-FILTERED

Lab Sample ID:	L1835142-04	**SDG:**	L1835142
Client Sample ID:	DEEPWATER-S-SW-FILTERED	**Collected Date/Time:**	03/11/25 16:10
Lab File ID:	32.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 03:09
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 03:09
Dilution Factor:	1	**Prep Method:**	218.6
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DUP3-SW

Lab Sample ID:	L1835142-05	**SDG:**	L1835142
Client Sample ID:	DUP3-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	33.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 03:20
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 03:20
Dilution Factor:	1	**Prep Method:**	218.6
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835142-06	**SDG:**	L1835142
Client Sample ID:	TRUMAN-S-SW	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	34.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 03:30
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 03:30
Dilution Factor:	1	**Prep Method:**	218.6
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
TRUMAN-S-SW-FILTERED

Lab Sample ID:	L1835142-07	**SDG:**	L1835142
Client Sample ID:	TRUMAN-S-SW-FILTERED	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	37.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 04:03
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 04:03
Dilution Factor:	1	**Prep Method:**	218.6
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-1	**SDG:**	L1835142
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	13.0000.txt	**Received Date/Time:**	
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/12/25 23:08
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/12/25 23:08
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-5	**SDG:**	L1835142
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 12:18
Lab File ID:	28.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 02:25
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 02:25
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-2	**SDG:**	L1835142
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	14.0000.txt	**Received Date/Time:**	
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/12/25 23:19
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/12/25 23:19
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	1.99	J	0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-7	**SDG:**	L1835142
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	41.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 04:47
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 04:47
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-3	**SDG:**	L1835142
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 08:00
Lab File ID:	16.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 00:15
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 00:15
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	47.8		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-6	**SDG:**	L1835142
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	38.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 04:14
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 04:14
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	47.2		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-4	**SDG:**	L1835142
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 08:00
Lab File ID:	17.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 00:25
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 00:25
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	47.9		0.100	5.00

2-IN

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W
Concentration Units:	mg/l		

		ICV				CCV				CCV			
Sample ID:		METALSIC280312251501-2				METALSIC280313250131-2				METALSIC280313250341-2			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
HEXAVALENT CHROMIUM	0.05	0.0497983	99.60		0.05	0.0490455	98.10		0.05	0.0486689	97.30	

ICV Limits: 95 - 105 CCV Limits: 95 - 105

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W
Concentration Units:	mg/l		

CCV

Sample ID: METALSIC280313250509-2

Analyte	True	Found	%R	%RSD
HEXAVALENT CHROMIUM	0.05	0.0488157	97.60	

ICV Limits: 95 - 105 CCV Limits: 95 - 105

SDG:	L1835142	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Sample ID:	**ICB Result**	**ICB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	10.0000.txt-2		13.0000.txt		24.0000.txt-2		36.0000.txt-2	
Analyte	ppb		mg/l		ppb		ppb	
HEXAVALENT CHROMIUM	0.0000		U		0.0000		0.0000	

SDG:	L1835142	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	44.0000.txt-2	
Analyte	ppb	
HEXAVALENT CHROMIUM	0.0000	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835142-01,02,03,04,05,06,07

SAMPLE NO.:
R4185789-3
R4185789-4

MS Sample / File ID:	R4185789-3 / 16.0000.txt	**SDG:**	L1835142
MSD Sample / File ID:	R4185789-4 / 17.0000.txt	**Analytical Batch:**	WG2467459
OS Sample / File ID:	L1834905-01 / 15.0000.txt	**Matrix:**	WW
Instrument ID:	METALSIC28		
Analytical Method:	218.6		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	50.0	U	47.8	47.9	95.6	95.7	1	90.0 - 110	0.167	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835142-01,02,03,04,05,06,07

SAMPLE NO.:
R4185789-6

MS Sample / File ID:	R4185789-6 / 38.0000.txt	**SDG:**	L1835142
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2467459
OS Sample / File ID:	L1835142-07 / 37.0000.txt	**Matrix:**	WW
Instrument ID:	METALSIC28		
Analytical Method:	218.6		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*		*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	50.0	U	47.2		94.5		1	90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4185789-5 / 28.0000.txt	**SDG:**	L1835142
OS Sample / File ID:	L1834999-01 / 27.0000.txt	**Analytical Batch:**	WG2467459
Instrument ID:	METALSIC28	**Dilution Factor:**	1
Analytical Method:	218.6	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	ug/l	*ug/l*	*%*	*%*
Hexavalent Chromium	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4185789-7 / 41.0000.txt	**SDG:**	L1835142
OS Sample / File ID:	L1835192-02 / 40.0000.txt	**Analytical Batch:**	WG2467459
Instrument ID:	METALSIC28	**Dilution Factor:**	1
Analytical Method:	218.6	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	ug/l	*ug/l*	*%*	*%*
Hexavalent Chromium	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835142-01,02,03,04,05,06,07

SAMPLE NO.:
R4185789-2

LCS Sample / File ID:	R4185789-2 / 14.0000.txt	**SDG:**	L1835142
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467459
Instrument ID:	METALSIC28	**Dilution Factor:**	1
Analytical Method:	218.6	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Hexavalent Chromium	2.00	1.99		99.4		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835142-01,02,03,04,05,06,07 **Analytical Method:** 218.6

Matrix: WW **Prep Method:** 218.6

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/l	*mg/l*
Hexavalent Chromium	18540-29-9			0.0001	0.0050

ANALYSIS LOG

SDG:	L1835142	**Analytical Method:**	218.6
Instrument ID:	METALSIC28	**Calibration Start Date:**	03/12/25 13:34
Analytical Run:	031225 W	**Calibration End Date:**	03/12/25 14:50

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	CAL 1	01.0000.TXT	03/12/25 13:34		
CAL	CAL 8	02.0000.TXT	03/12/25 13:45		
CAL	CAL 2	03.0000.TXT	03/12/25 13:55		
CAL	CAL 3	04.0000.TXT	03/12/25 14:06		
CAL	CAL 4	05.0000.TXT	03/12/25 14:17		
CAL	CAL 5	06.0000.TXT	03/12/25 14:28		
CAL	CAL 6	07.0000.TXT	03/12/25 14:39		
CAL	CAL 7	08.0000.TXT	03/12/25 14:50		
ICV	METALSIC280312251501-2	09.0000.txt-2	03/12/25 15:01		
ICB	METALSIC280312251512-2	10.0000.txt-2	03/12/25 15:12		
RL	METALSIC280312252236-2	11.0000.txt-2	03/12/25 22:36		
BLANK	R4185789-1	13.0000.txt	03/12/25 23:08	1	WG2467459
LCS	R4185789-2	14.0000.txt	03/12/25 23:19	1	WG2467459
OS	L1834905-01	15.0000.txt	03/13/25 00:04		
MS	R4185789-3	16.0000.txt	03/13/25 00:15	1	WG2467459
MSD	R4185789-4	17.0000.txt	03/13/25 00:25	1	WG2467459
CCV	METALSIC280313250131-2	23.0000.txt-2	03/13/25 01:31		
CCB	METALSIC280313250142-2	24.0000.txt-2	03/13/25 01:42		
OS	L1834999-01	27.0000.txt	03/13/25 02:14		
DUP	R4185789-5	28.0000.txt	03/13/25 02:25	1	WG2467459
MONTROSE-LAKE-S-SW	L1835142-01	29.0000.txt	03/13/25 02:36	1	WG2467459
MONTROSE-LAKE-S-SW-FILTERED	L1835142-02	30.0000.txt	03/13/25 02:47	1	WG2467459
DEEPWATER-S-SW	L1835142-03	31.0000.txt	03/13/25 02:58	1	WG2467459
DEEPWATER-S-SW-FILTERED	L1835142-04	32.0000.txt	03/13/25 03:09	1	WG2467459
DUP3-SW	L1835142-05	33.0000.txt	03/13/25 03:20	1	WG2467459
TRUMAN-S-SW	L1835142-06	34.0000.txt	03/13/25 03:30	1	WG2467459
CCV	METALSIC280313250341-2	35.0000.txt-2	03/13/25 03:41		
CCB	METALSIC280313250352-2	36.0000.txt-2	03/13/25 03:52		
TRUMAN-S-SW-FILTERED	L1835142-07	37.0000.txt	03/13/25 04:03	1	WG2467459
MS	R4185789-6	38.0000.txt	03/13/25 04:14	1	WG2467459
L1835192-01	L1835192-01	39.0000.txt	03/13/25 04:25	1	WG2467459
OS	L1835192-02	40.0000.txt	03/13/25 04:36		
L1835192-02	L1835192-02	40.0000.txt	03/13/25 04:36	1	WG2467459
DUP	R4185789-7	41.0000.txt	03/13/25 04:47	1	WG2467459
L1835192-03	L1835192-03	42.0000.txt	03/13/25 04:58	1	WG2467459
CCV	METALSIC280313250509-2	43.0000.txt-2	03/13/25 05:09		
CCB	METALSIC280313250519-2	44.0000.txt-2	03/13/25 05:19		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.0001	.000097	97	0.0005	.0005092	102
File ID:		02.0000.TXT			03.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.0010	.001013	101	0.0050	.0050412	101
File ID:		04.0000.TXT			05.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.01	.0099271	99.30	0.05	.0497884	99.60
File ID:		06.0000.TXT			07.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Analyte	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.10	.1002241	100
File ID:		08.0000.TXT	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
HEXAVALENT CHROMIUM	5	1	0.99999			0.229	0.008	2.998

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

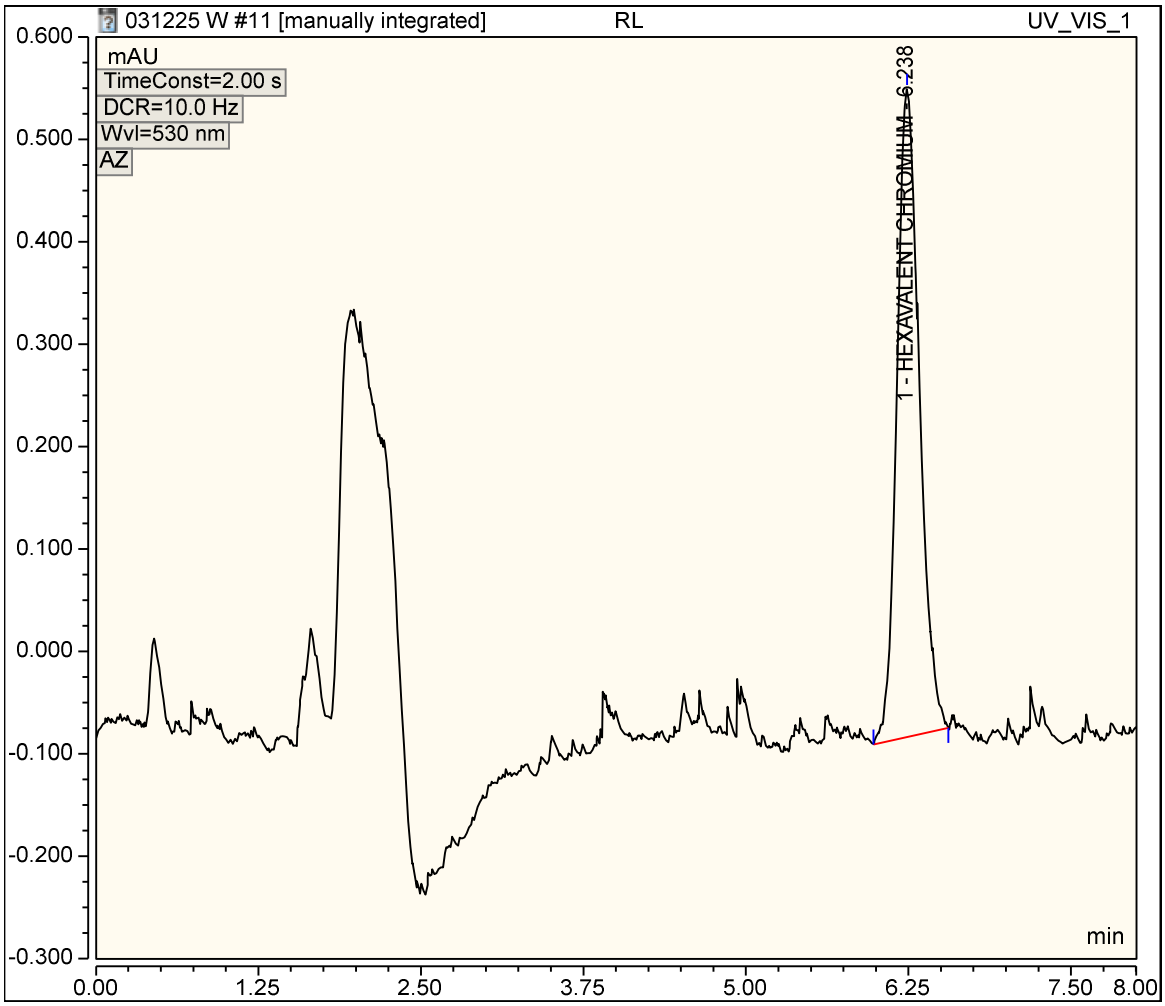
REPORTING LEVEL VERIFICATION
INORGANICS

SDG:	L1835142	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Lab File ID:	11.0000.txt-2	**Analysis date/time:**	03/12/25 22:36
Analytical Method:	218.6	**Sample ID:**	RL

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
HEXAVALENT CHROMIUM	0.0005	0.0005187	104	60 - 140

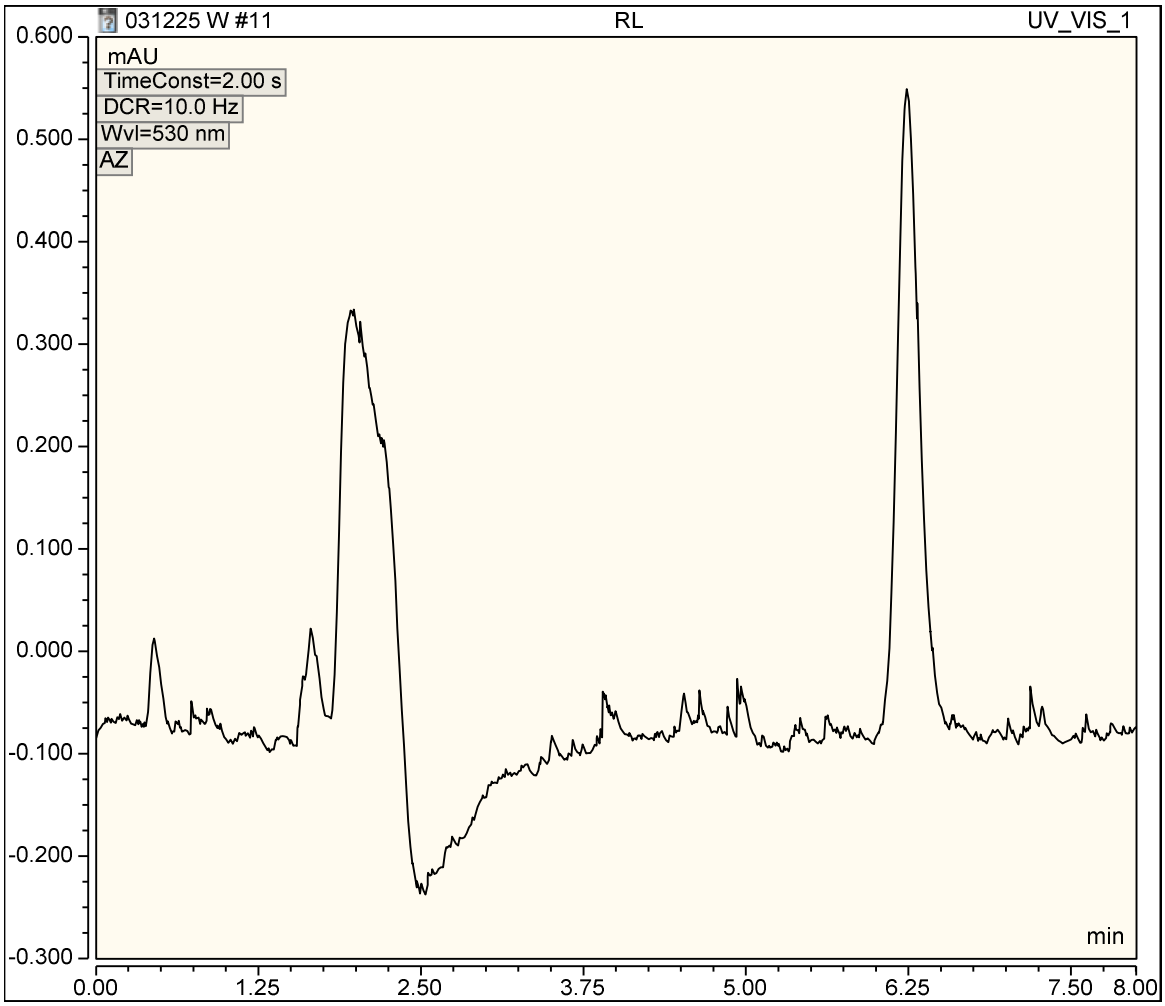
Sample Name:	**RL**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 22:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	HEXAVALENT CHROMIUM	BMB*	0.127	0.633	0.5187
		TOTAL:		0.13	0.63	0.52



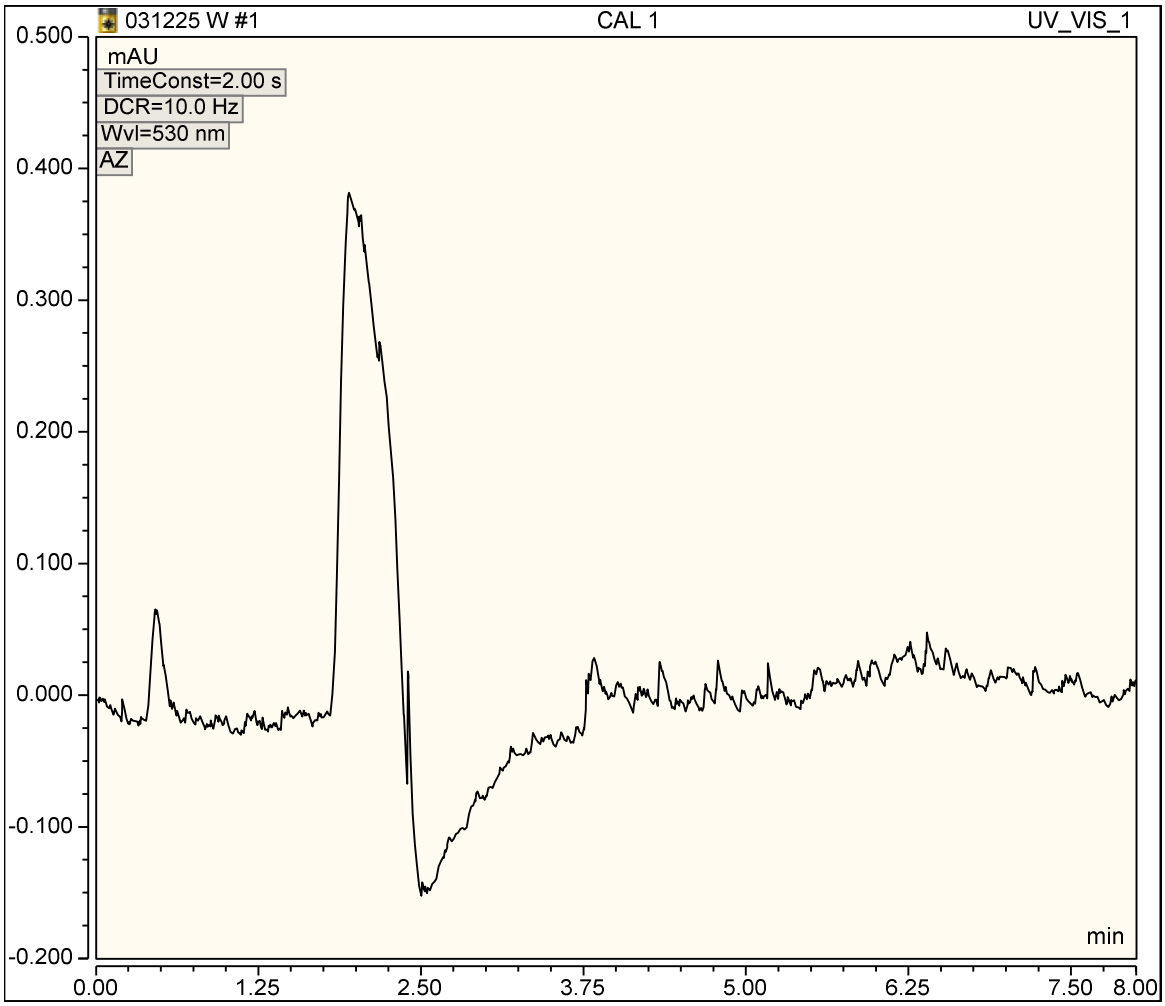
Sample Name:	**RL**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 22:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



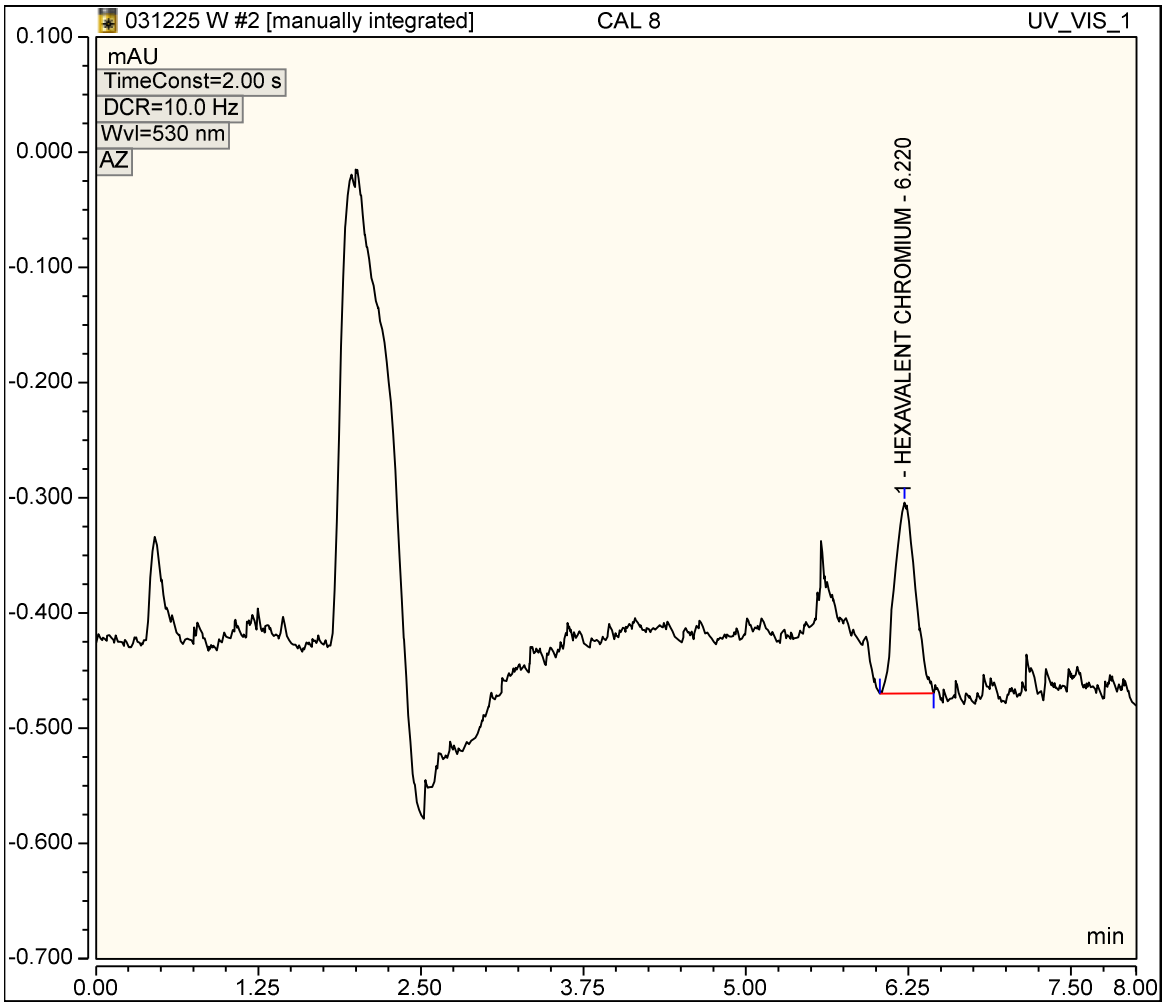
Sample Name:	**CAL 1**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 13:34**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**CAL 8**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 13:45**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.22	HEXAVALENT CHROMIUM	BMB*	0.030	0.166	0.0970
		TOTAL:		0.03	0.17	0.10

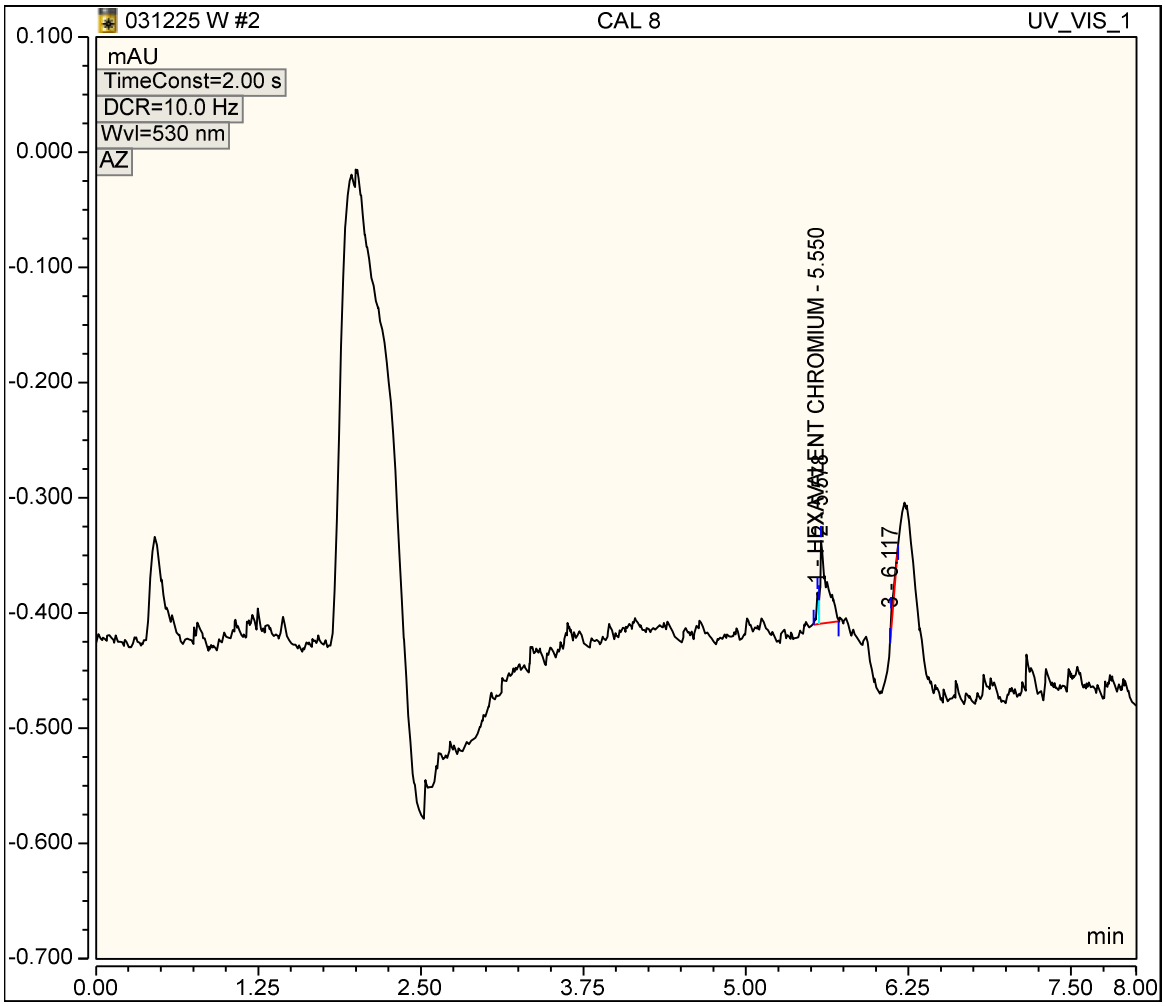


Export for Tree/Integration

PeakNet 6 (r) Dionex 2001
Version 7.3.1.6535

Sample Name:	**CAL 8**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 13:45**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.55	HEXAVALENT CHROMIUM	BM	0.000	0.027	0.1337
		TOTAL:		0.00	0.03	0.13

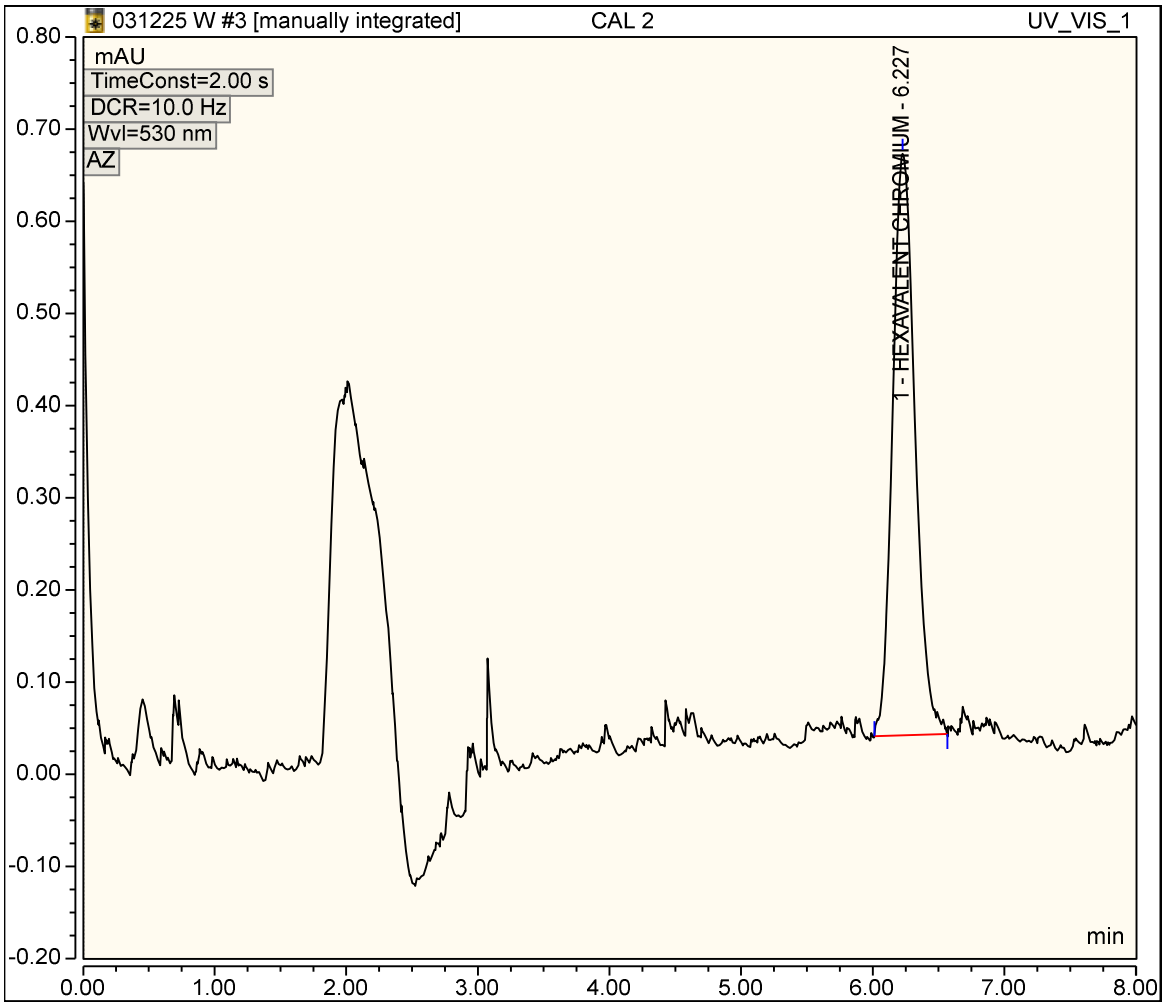


Export for Tree/Integration

PeakNet 6 (r) Dionex 2001
Version 7.3.1.6535

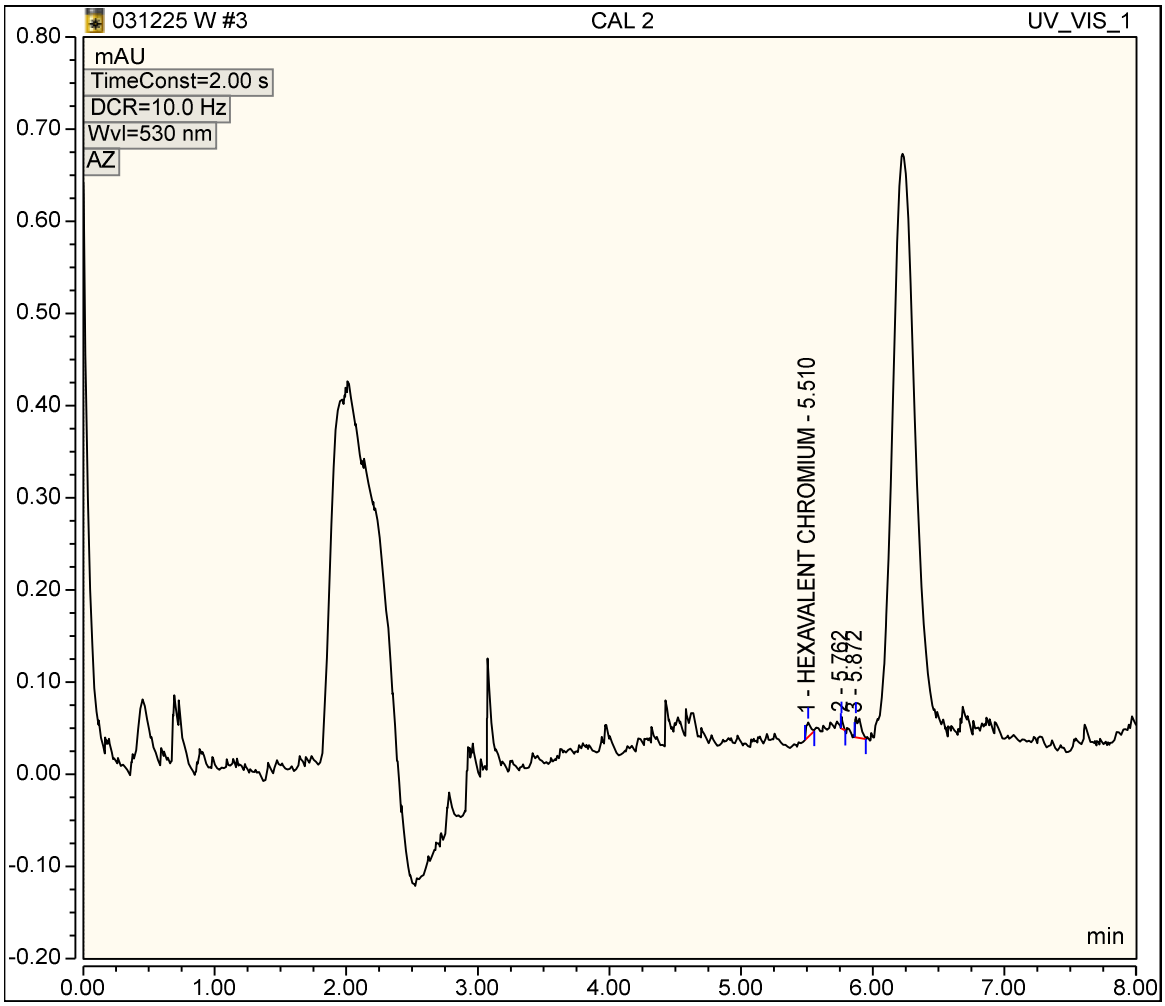
Sample Name:	**CAL 2**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 13:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	0.125	0.631	0.5092
		TOTAL:		0.12	0.63	0.51



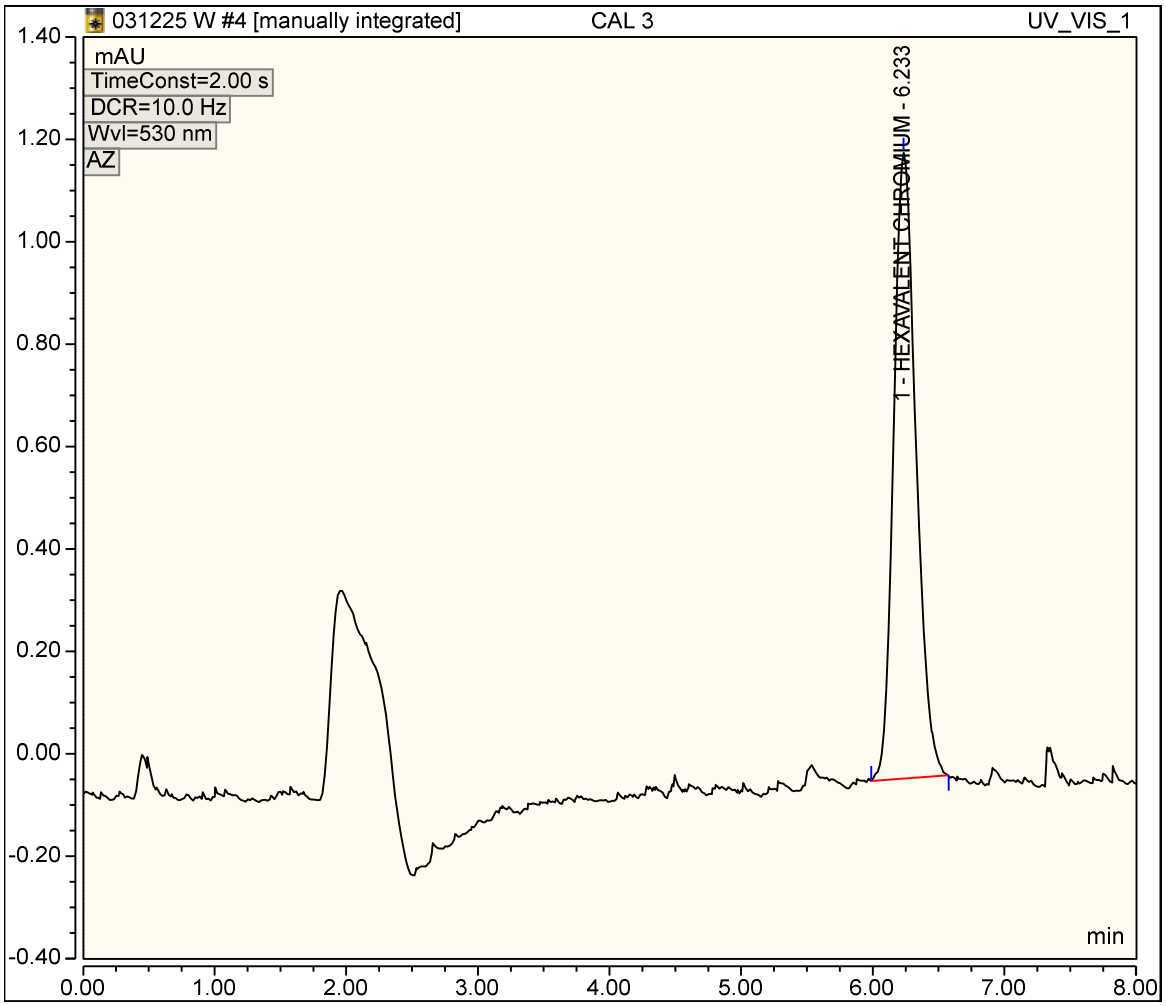
Sample Name:	**CAL 2**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 13:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.51	HEXAVALENT CHROMIUM	BMB	0.001	0.016	0.1970
		TOTAL:		0.00	0.02	0.20



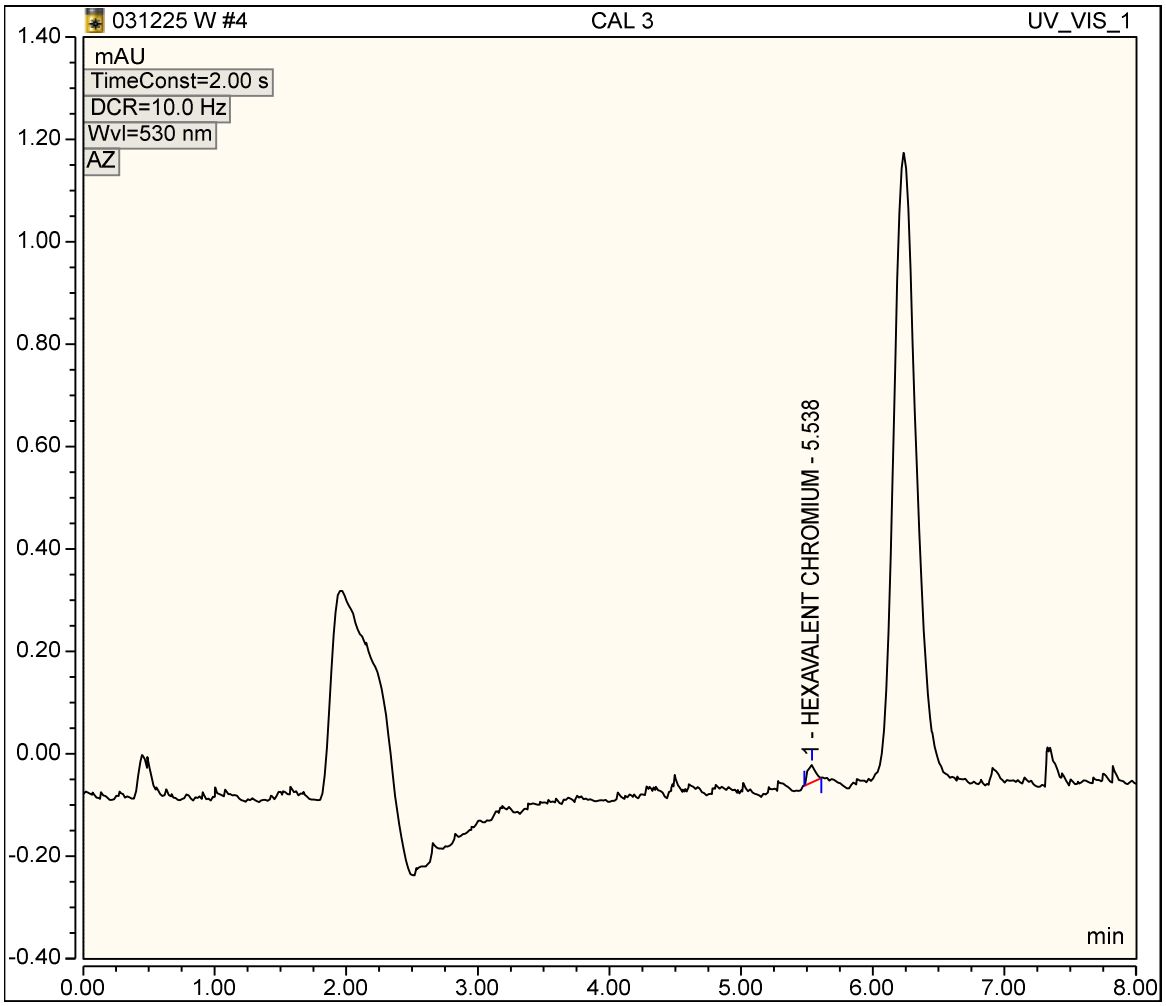
Sample Name:	**CAL 3**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:06**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	0.240	1.222	1.0130
		TOTAL:		0.24	1.22	1.01



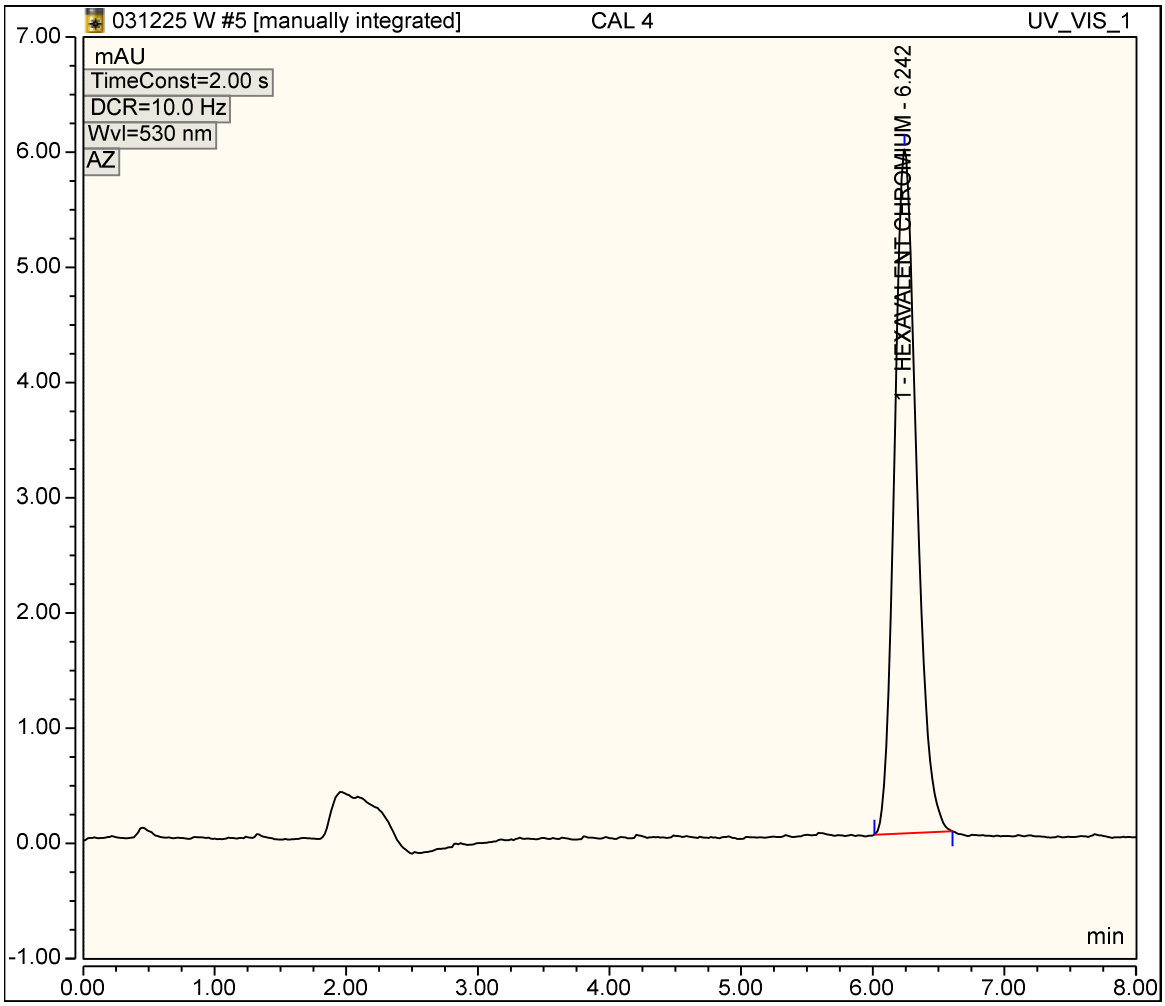
Sample Name:	**CAL 3**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:06**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.54	HEXAVALENT CHROMIUM	BMB	0.002	0.035	1.2693
		TOTAL:		0.00	0.04	1.27



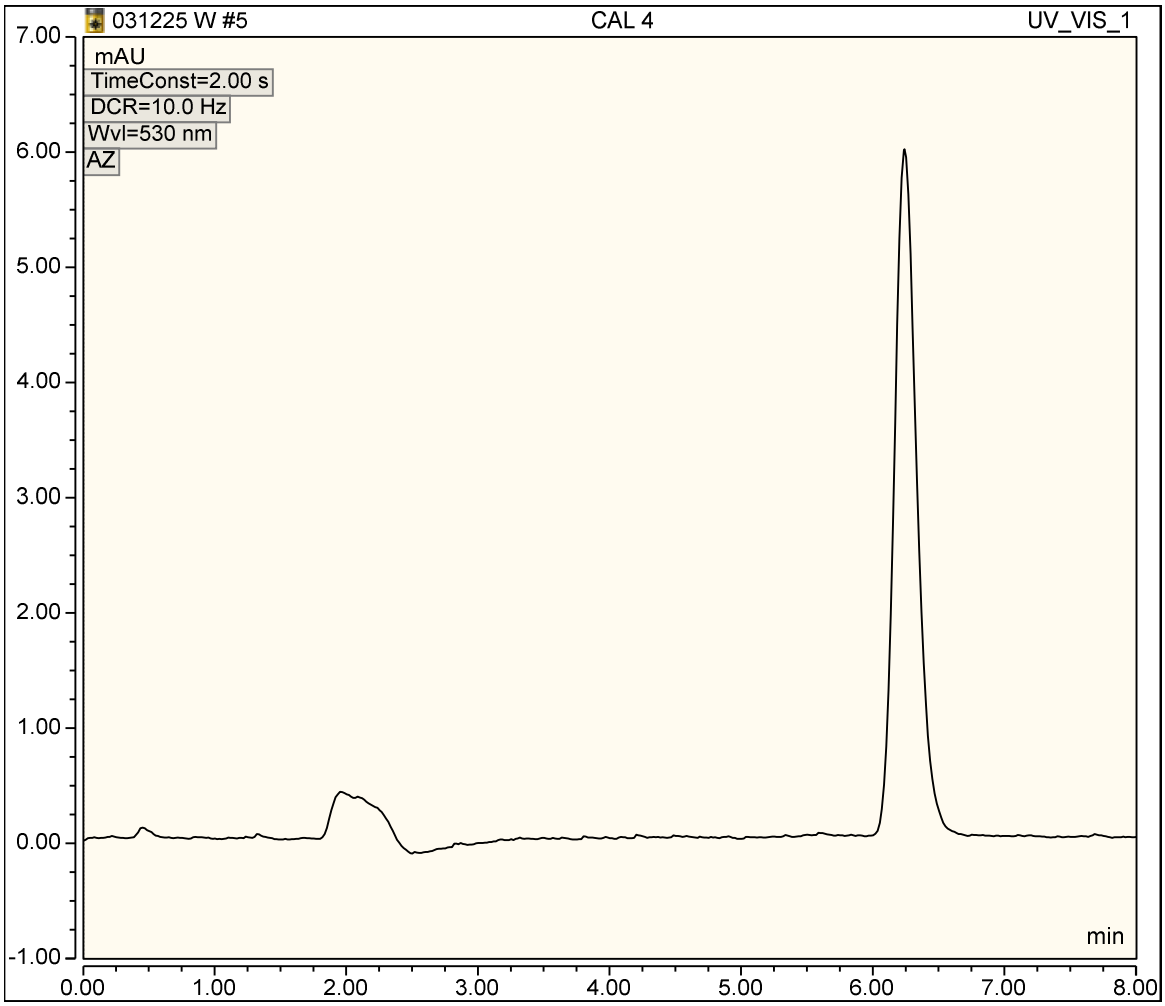
Sample Name:	**CAL 4**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:17**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	HEXAVALENT CHROMIUM	BMB*	1.161	5.937	5.0412
		TOTAL:		1.16	5.94	5.04



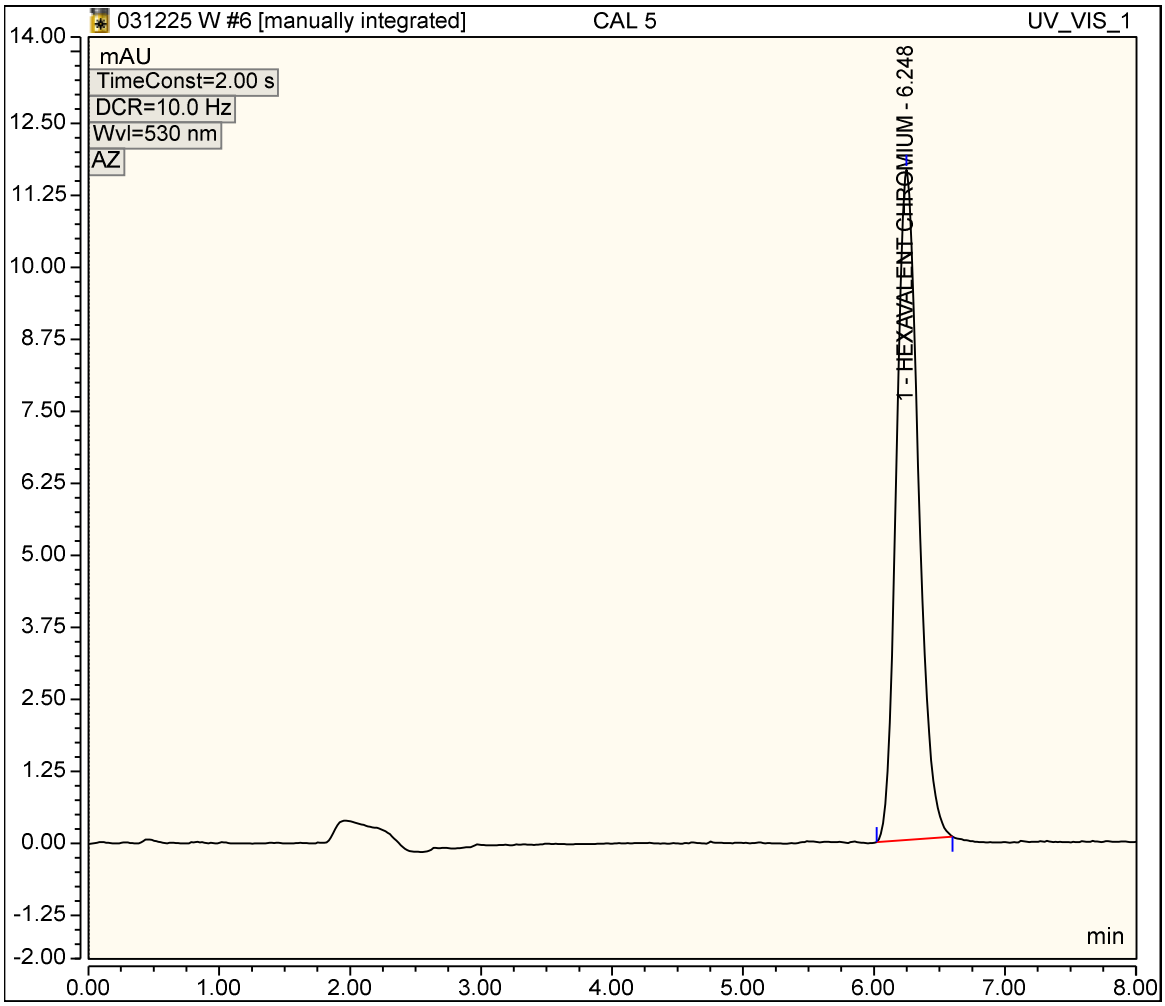
Sample Name:	**CAL 4**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:17**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



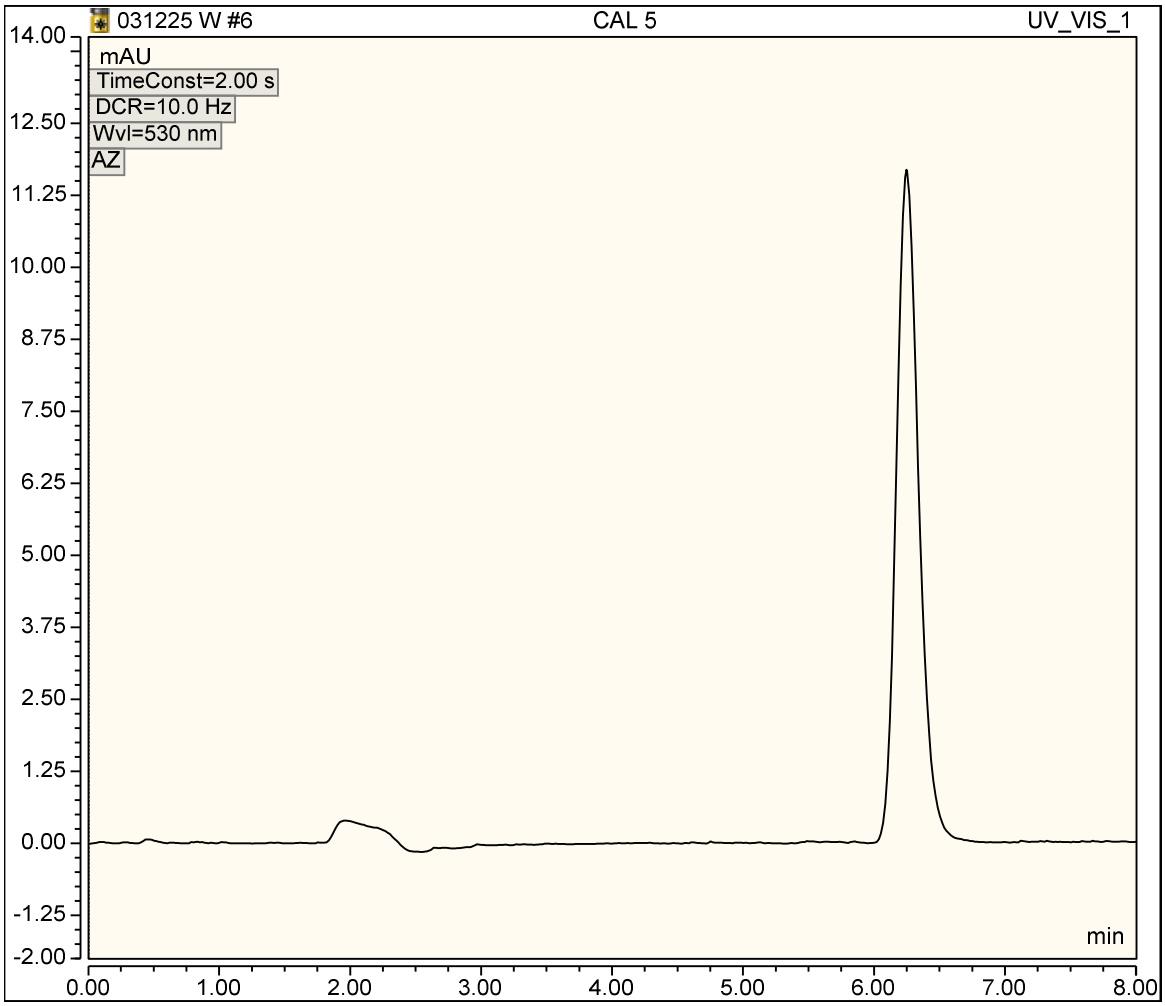
Sample Name:	**CAL 5**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:28**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.25	HEXAVALENT CHROMIUM	BMB*	2.278	11.633	9.9271
		TOTAL:		2.28	11.63	9.93



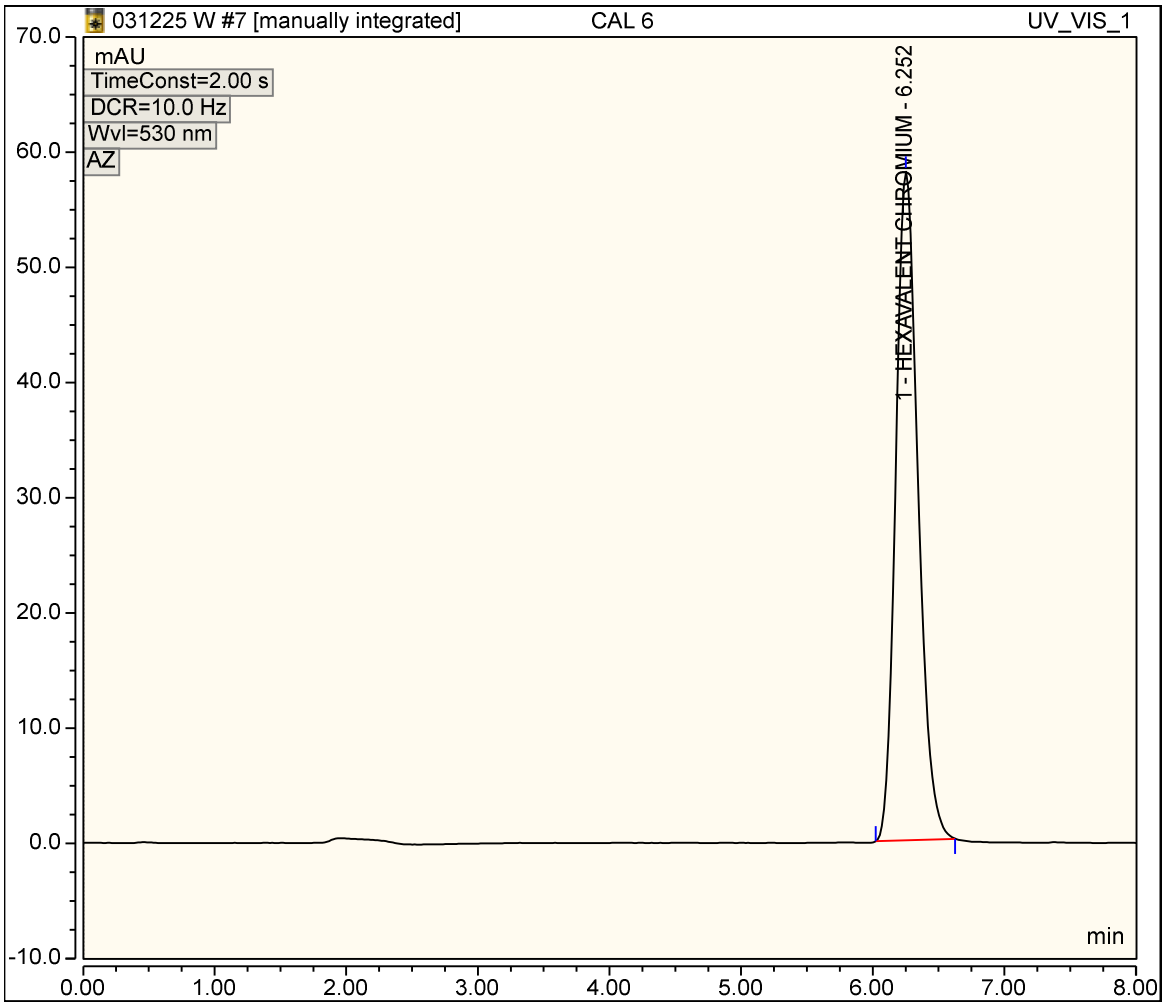
Sample Name:	**CAL 5**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:28**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



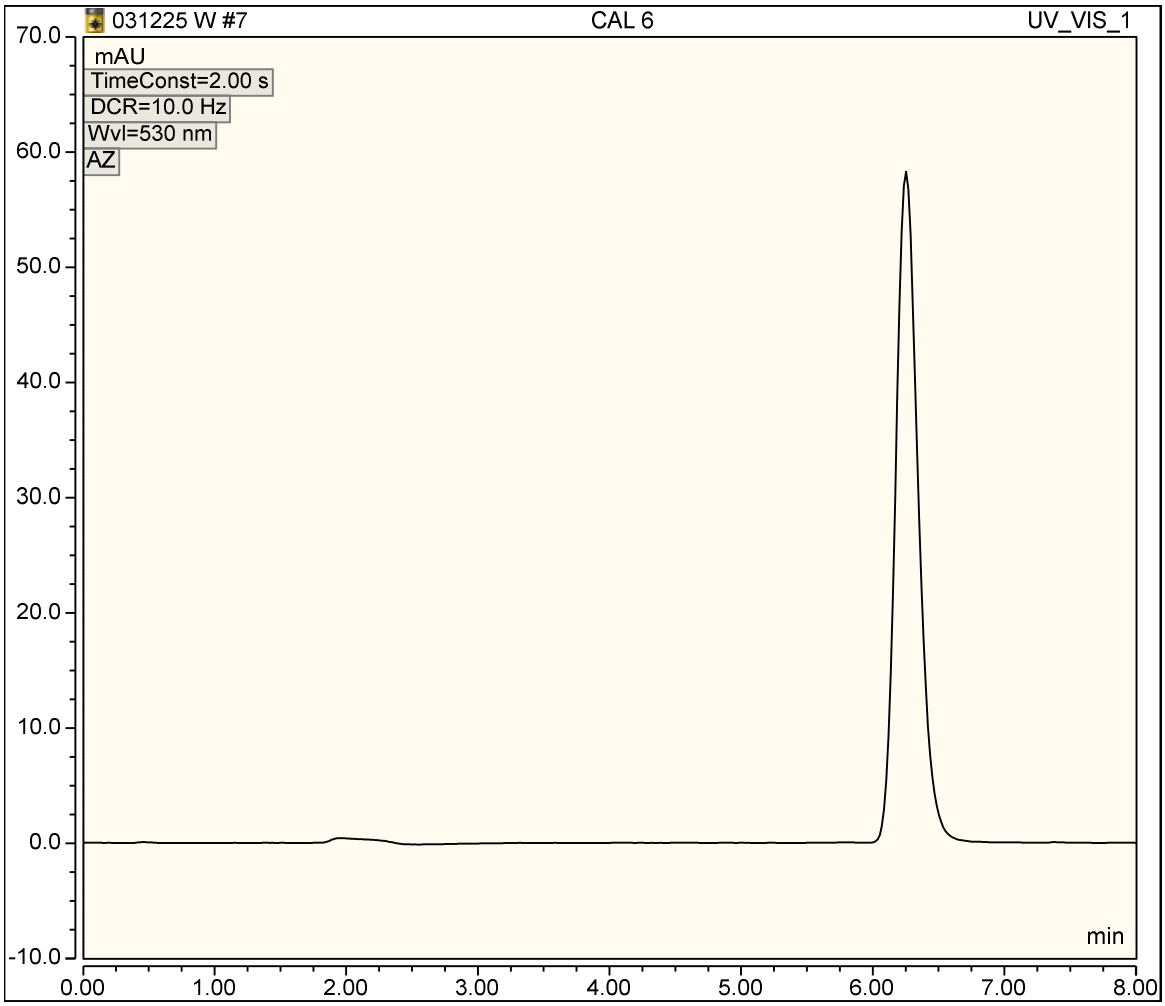
Sample Name:	**CAL 6**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:39**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.25	HEXAVALENT CHROMIUM	BMB*	11.392	58.053	49.7884
		TOTAL:		11.39	58.05	49.79



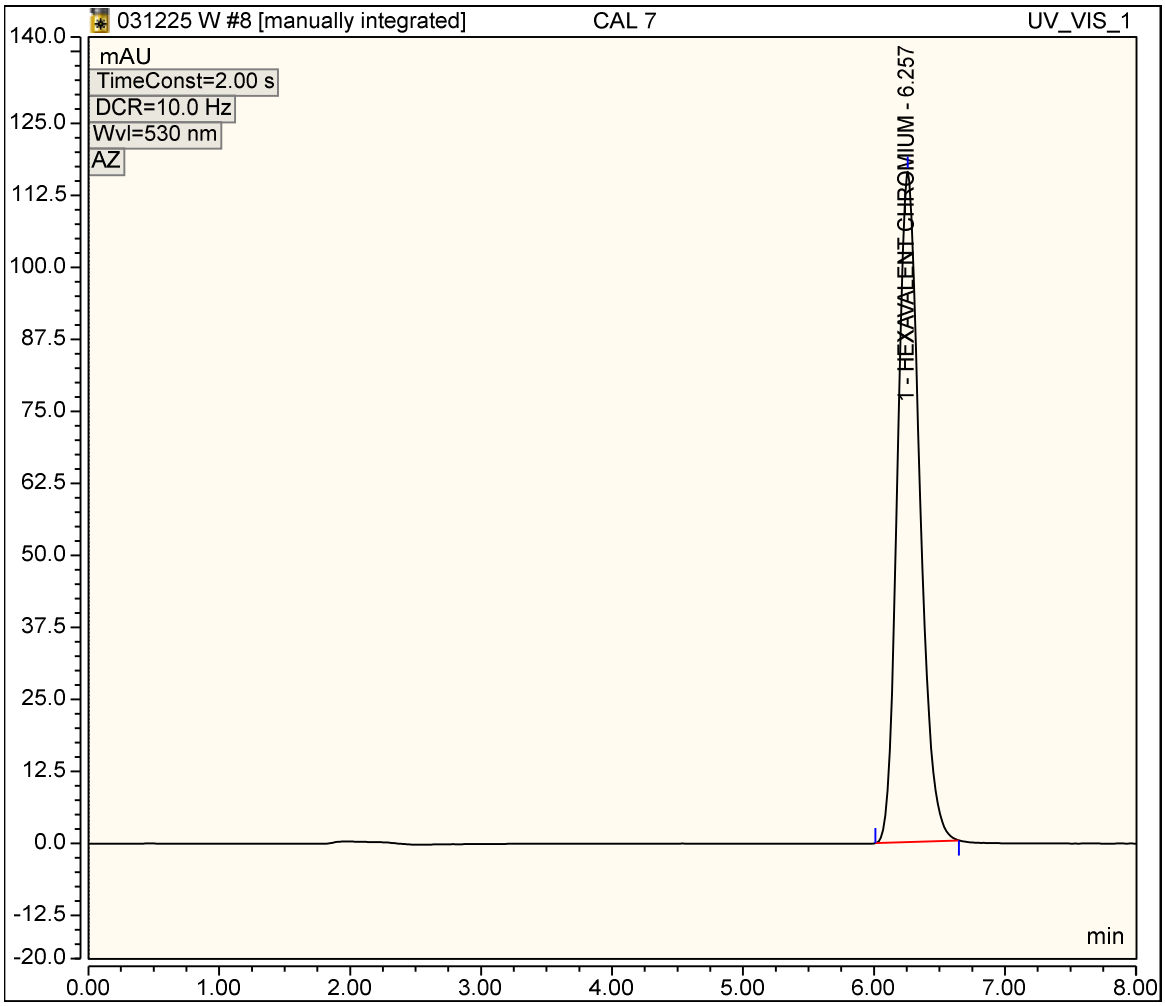
Sample Name:	**CAL 6**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:39**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



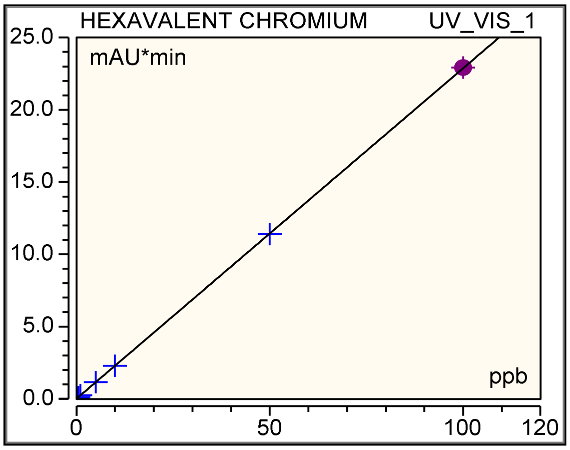
Sample Name:	**CAL 7**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:50**	*Run Time:*	**8.00**

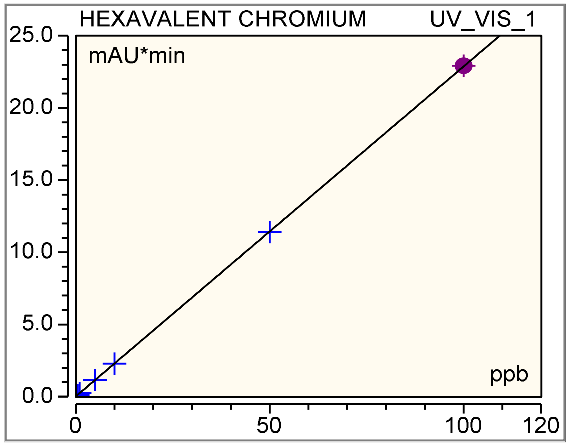
No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.26	HEXAVALENT CHROMIUM	BMB*	22.923	116.352	100.2241
		TOTAL:		22.92	116.35	100.22

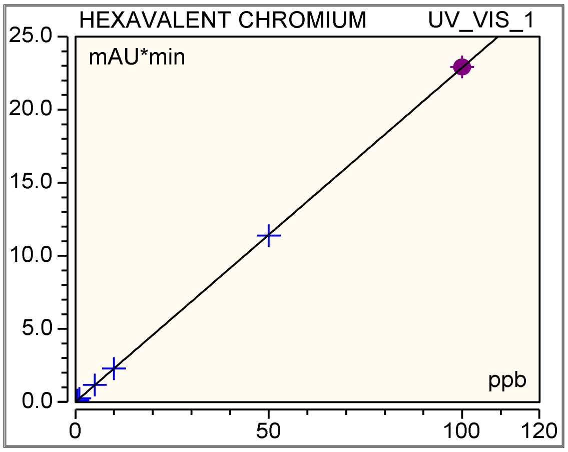


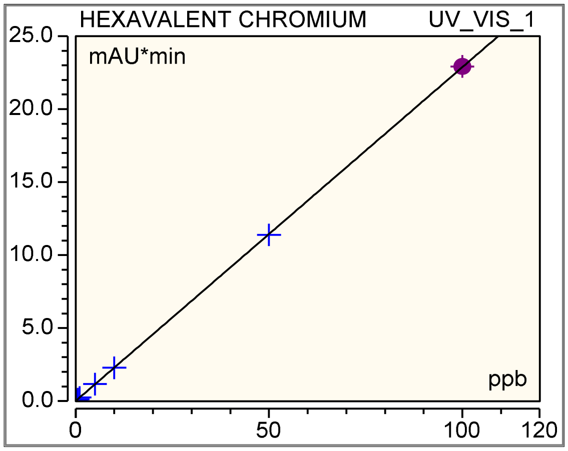
Calibration Batch Report

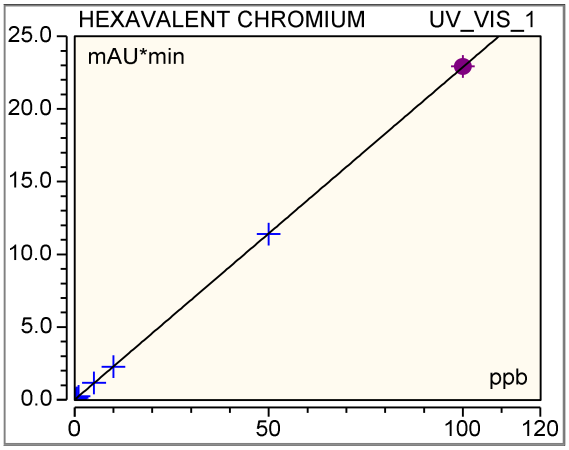
Sequence:	**031225 W**	Inj. Vol.:	**500.0**
Program:	**HEXAVALENT CHROMIUM_no CD2**	Operator:	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:50**	Run Time:	**8.00**

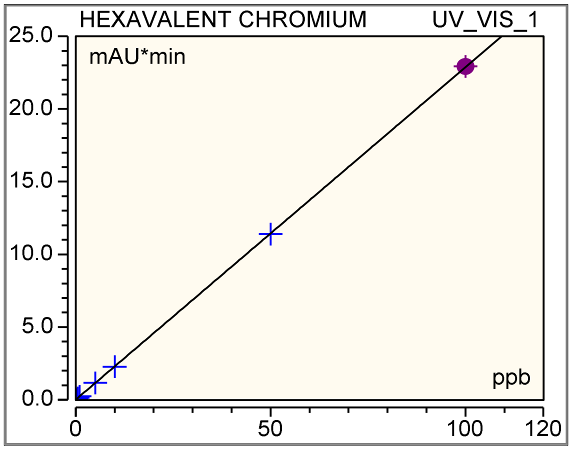




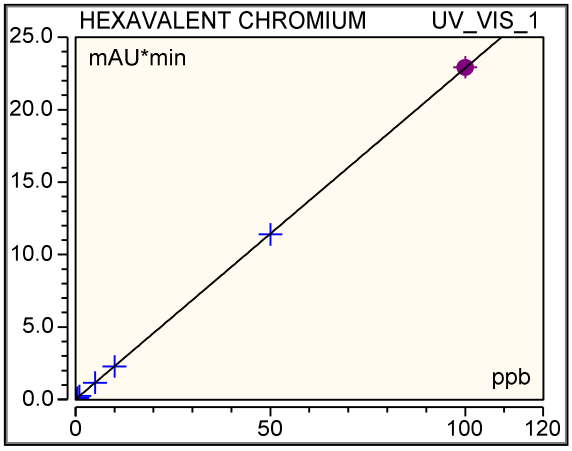








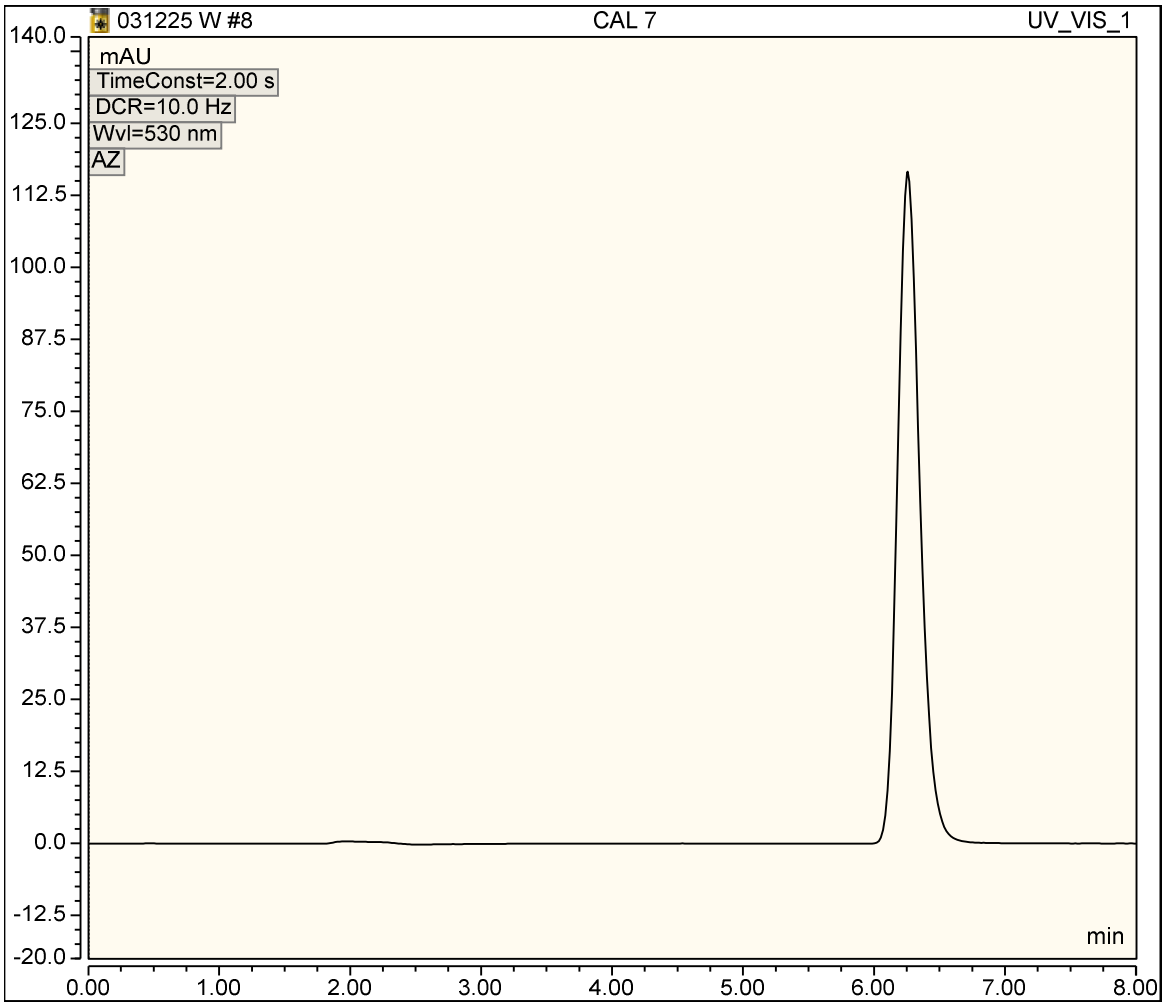
Sequence:	**031225 W**	*Inj. Vol.:*	**500.0**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/12/25 14:50**	*Run Time:*	**8.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	6.26	HEXAVALENT C	, WithOffset, 1	7	0.008	0.229	0.000	99.999
		AVERAGE:			0.0083	0.2286	0.0000	99.9992

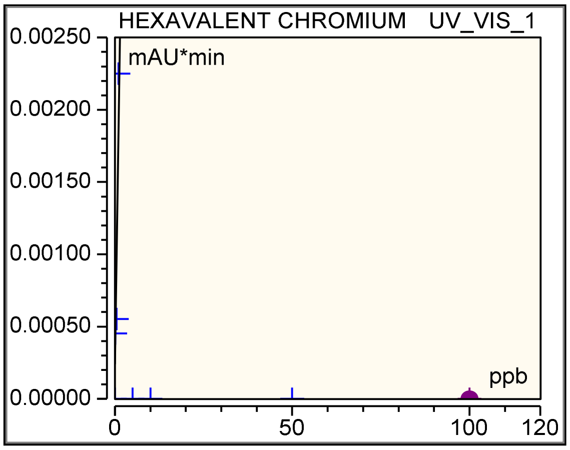
Sample Name:	**CAL 7**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:50**	*Run Time:*	**8.00**

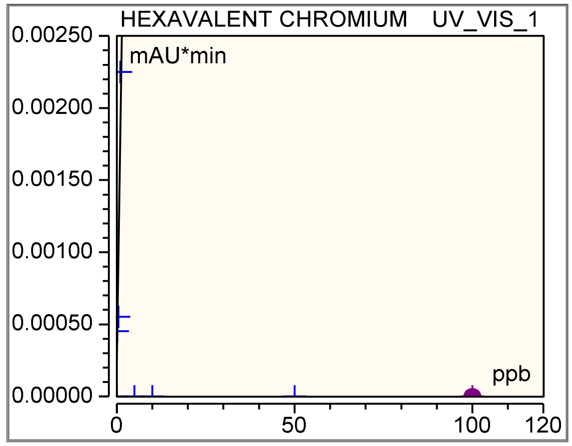
No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00

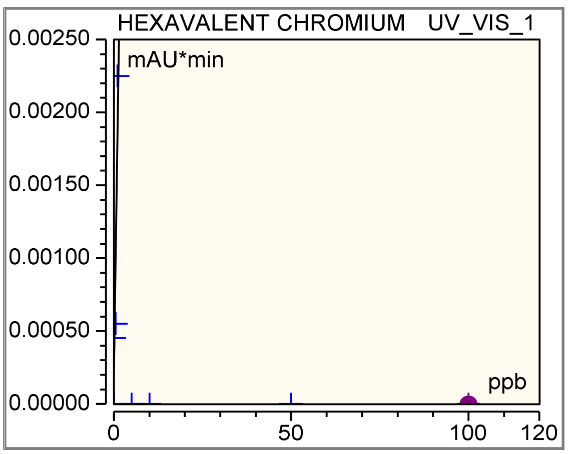


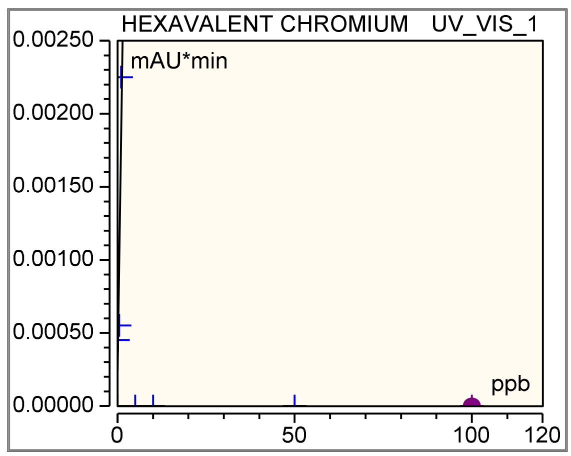
Calibration Batch Report

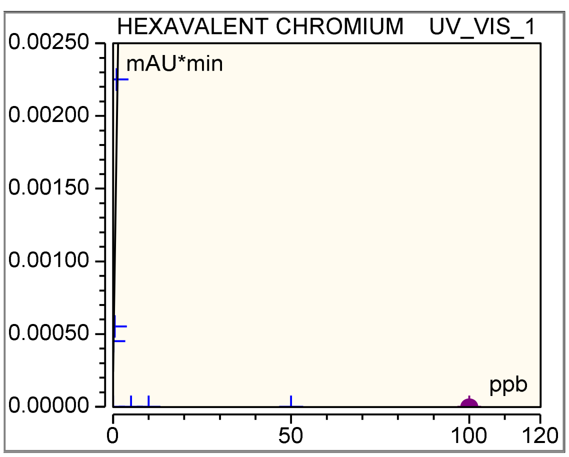
Sequence:	**031225 W**	Inj. Vol.:	**500.0**
Program:	**HEXAVALENT CHROMIUM_no CD2**	Operator:	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:50**	Run Time:	**8.00**

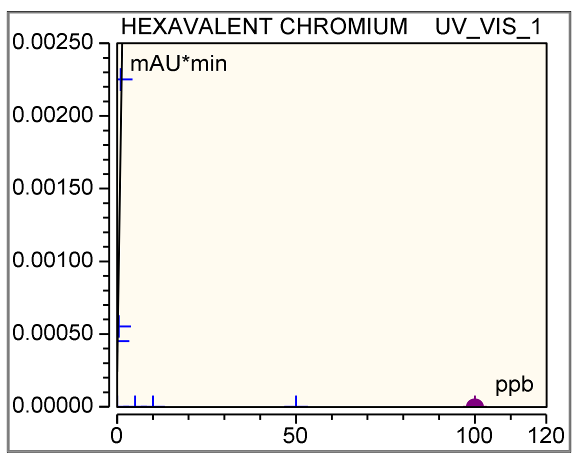




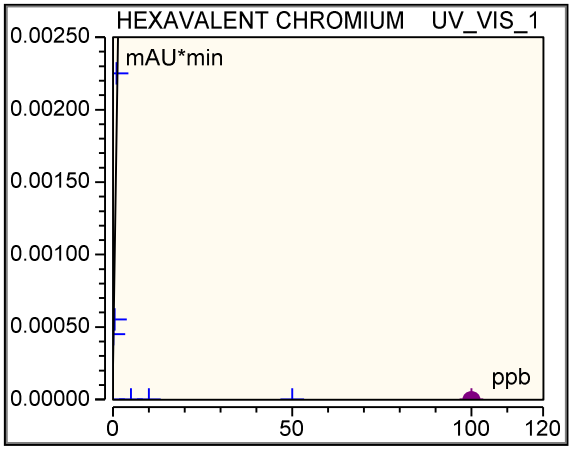








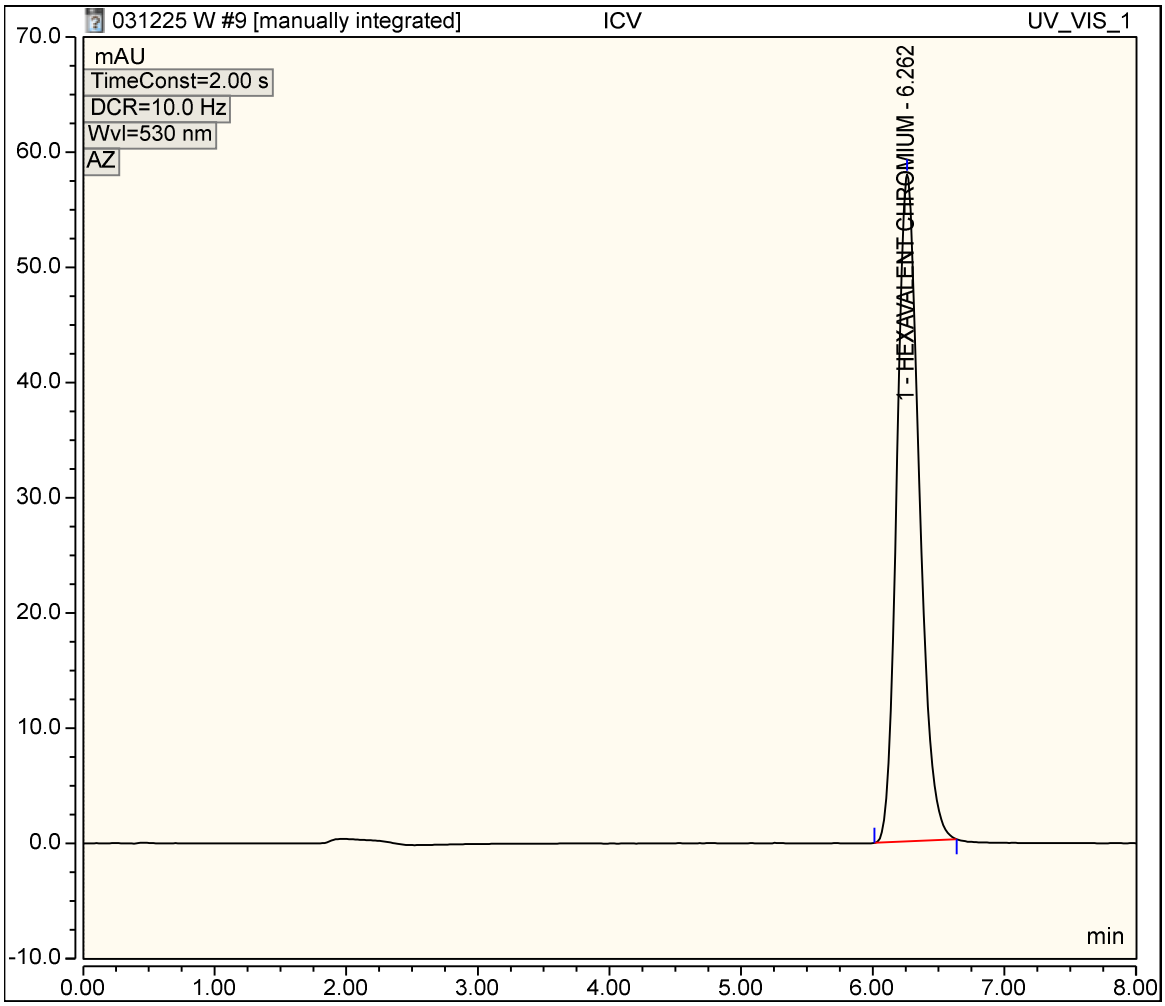
Sequence:	**031225 W**	*Inj. Vol.:*	**500.0**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/12/25 14:50**	*Run Time:*	**8.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
AVERAGE:					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

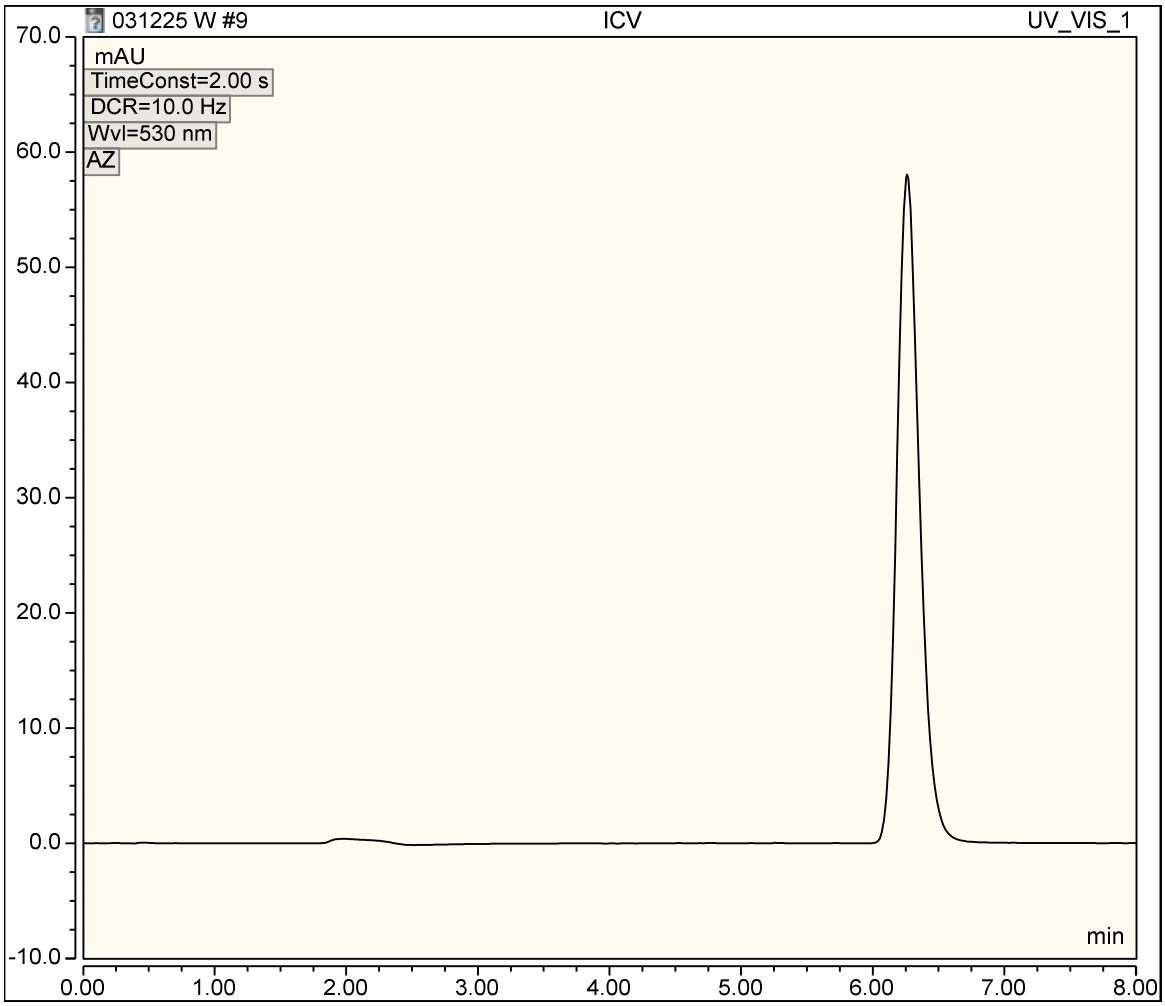
Sample Name:	**ICV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 15:01**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.26	HEXAVALENT CHROMIUM	BMB*	11.394	57.893	49.7983
		TOTAL:		11.39	57.89	49.80



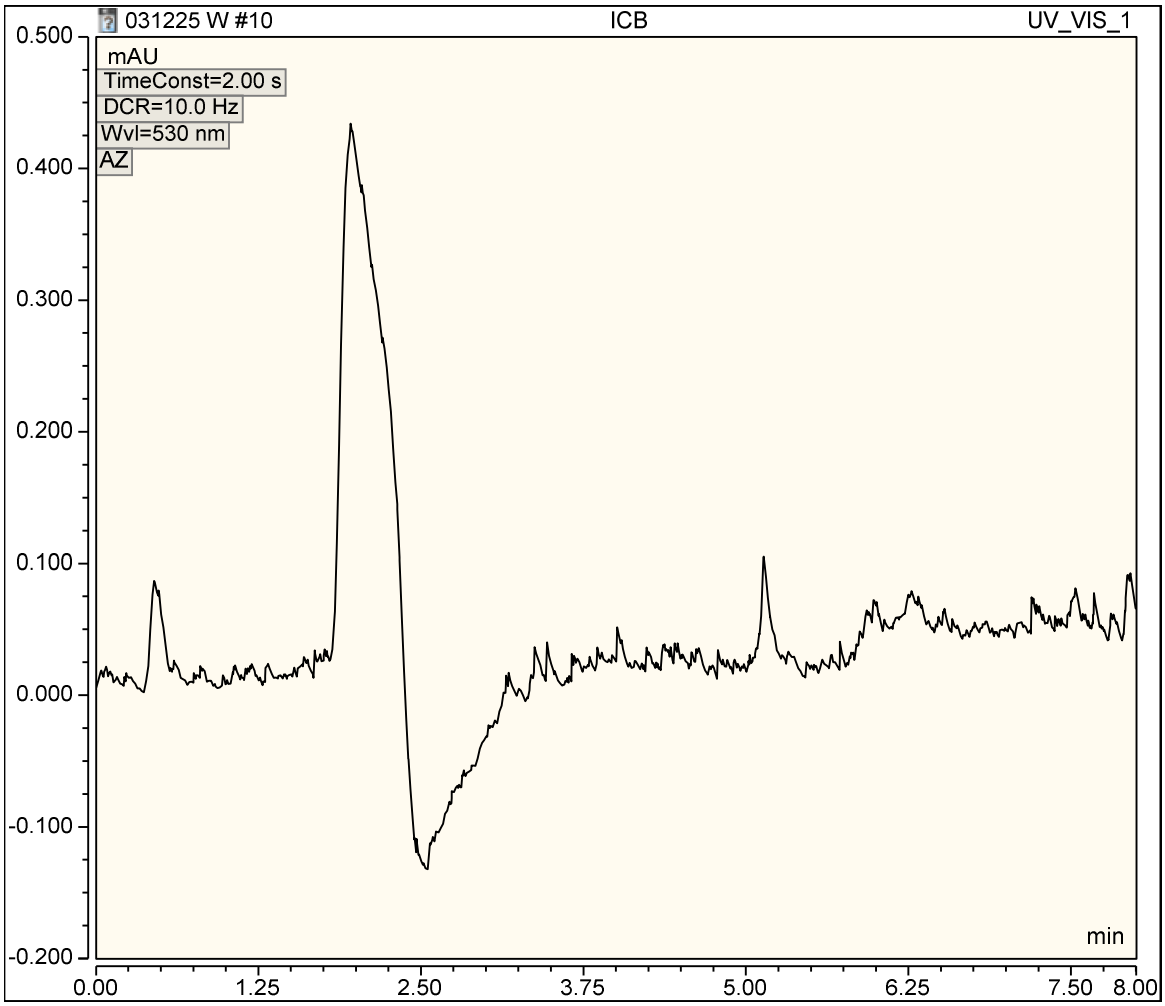
Sample Name:	**ICV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 15:01**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



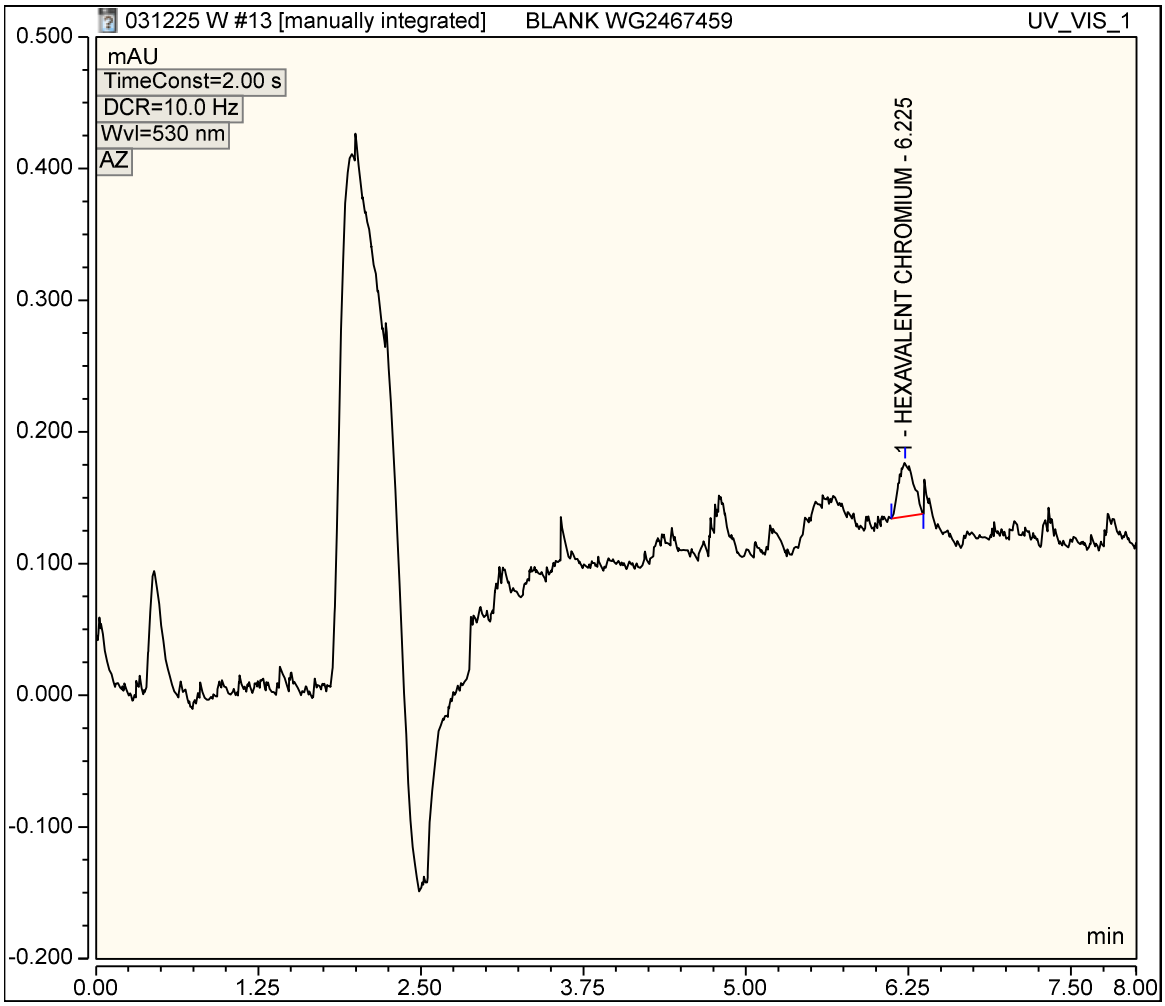
Sample Name:	**ICB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 15:12**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



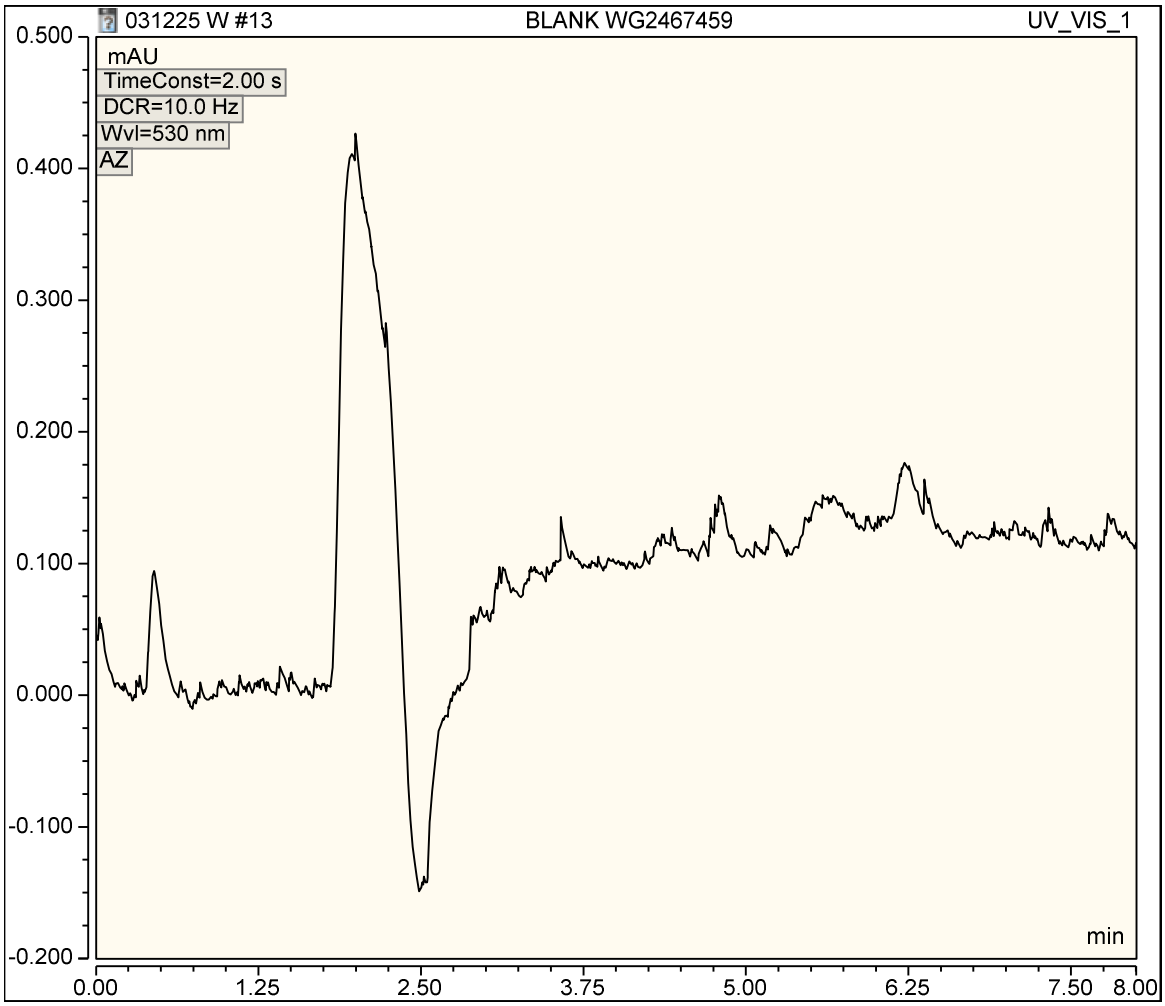
Sample Name:	**BLANK WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 23:08**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.22	HEXAVALENT CHROMIUM	BMB*	0.005	0.041	n.a.
		TOTAL:		0.01	0.04	0.00



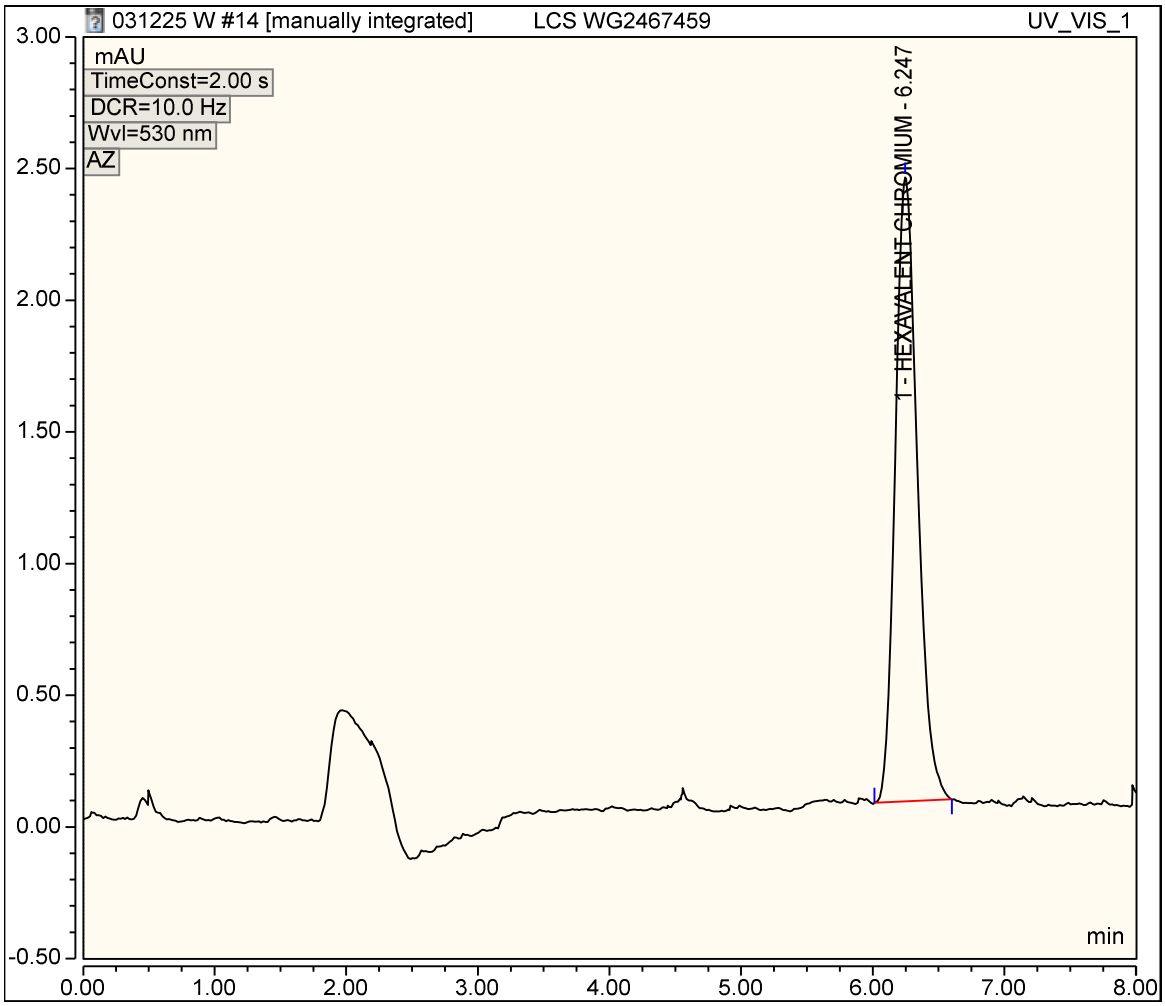
Sample Name:	**BLANK WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 23:08**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



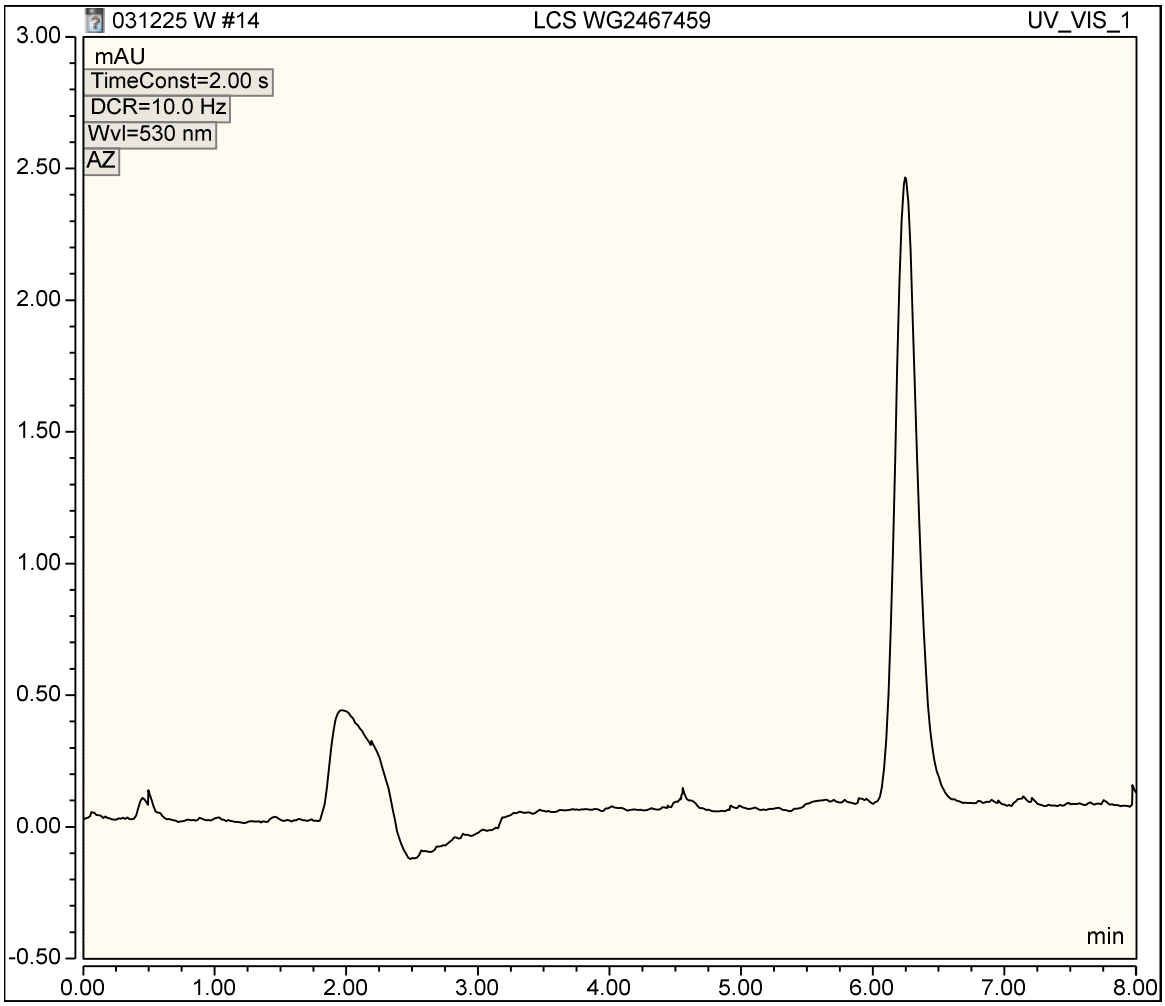
Sample Name:	**LCS WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 23:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.25	HEXAVALENT CHROMIUM	BMB*	0.463	2.369	1.9880
		TOTAL:		0.46	2.37	1.99



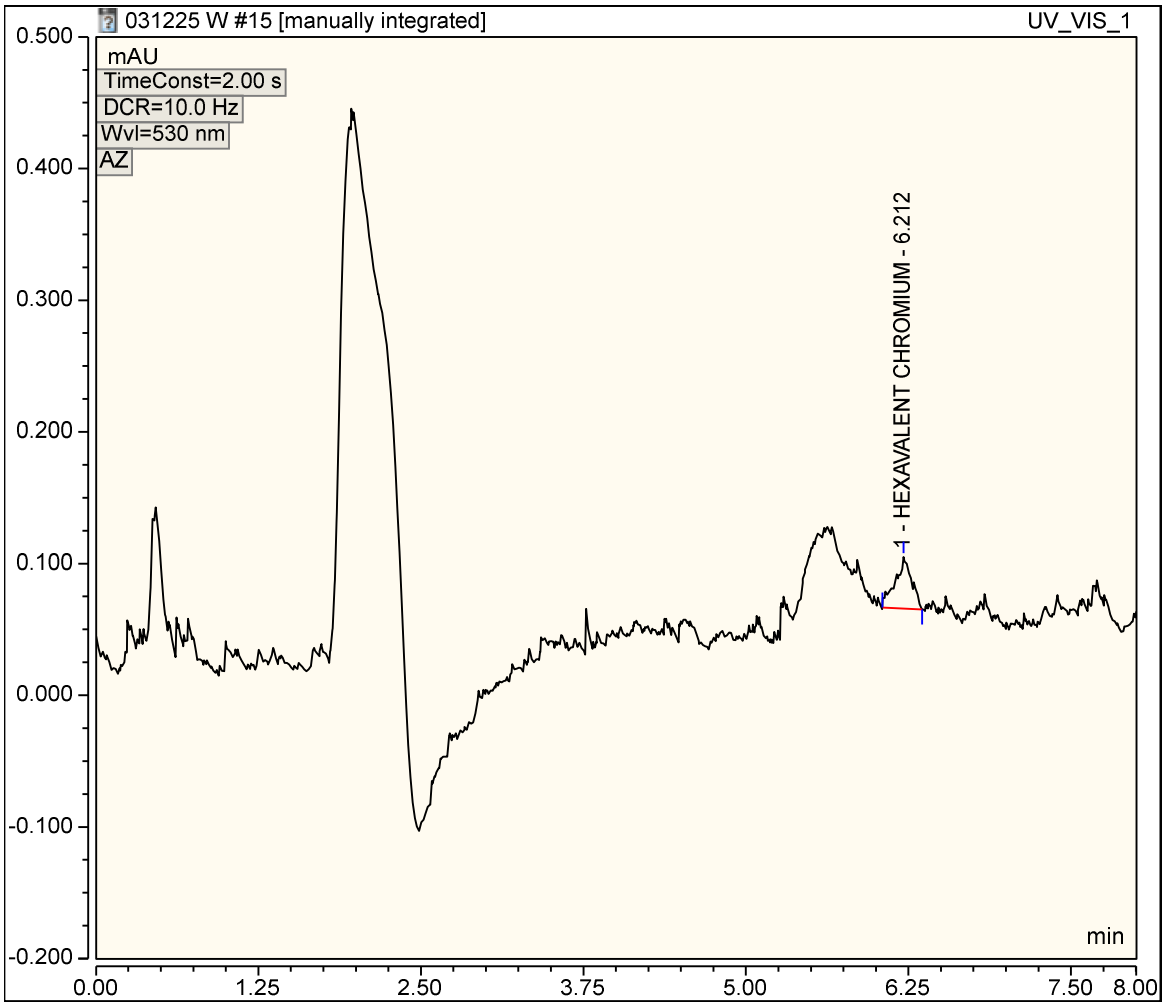
Sample Name:	**LCS WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 23:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



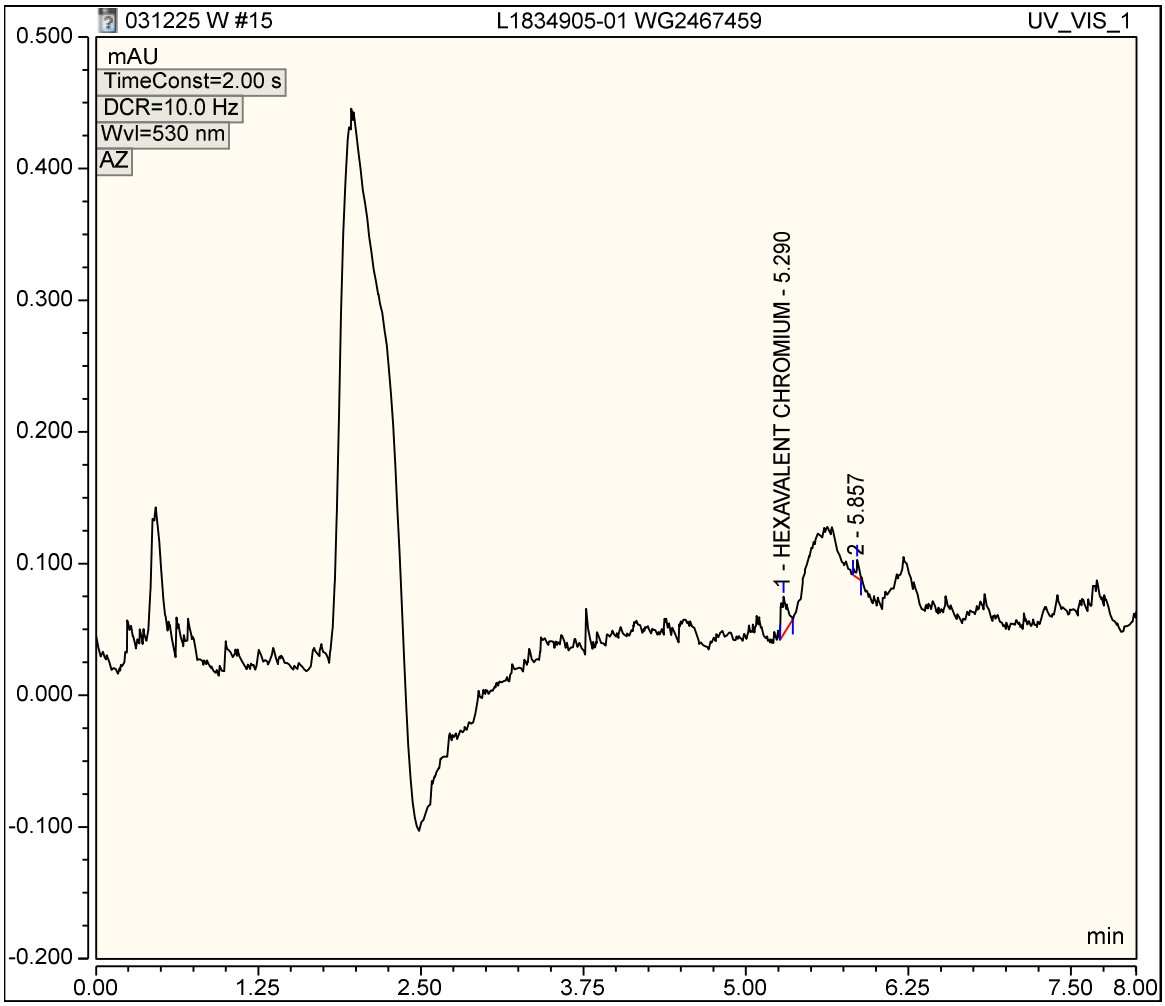
Sample Name:	**L1834905-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 00:04**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.21	HEXAVALENT CHROMIUM	BMB*	0.006	0.039	n.a.
		TOTAL:		0.01	0.04	0.00



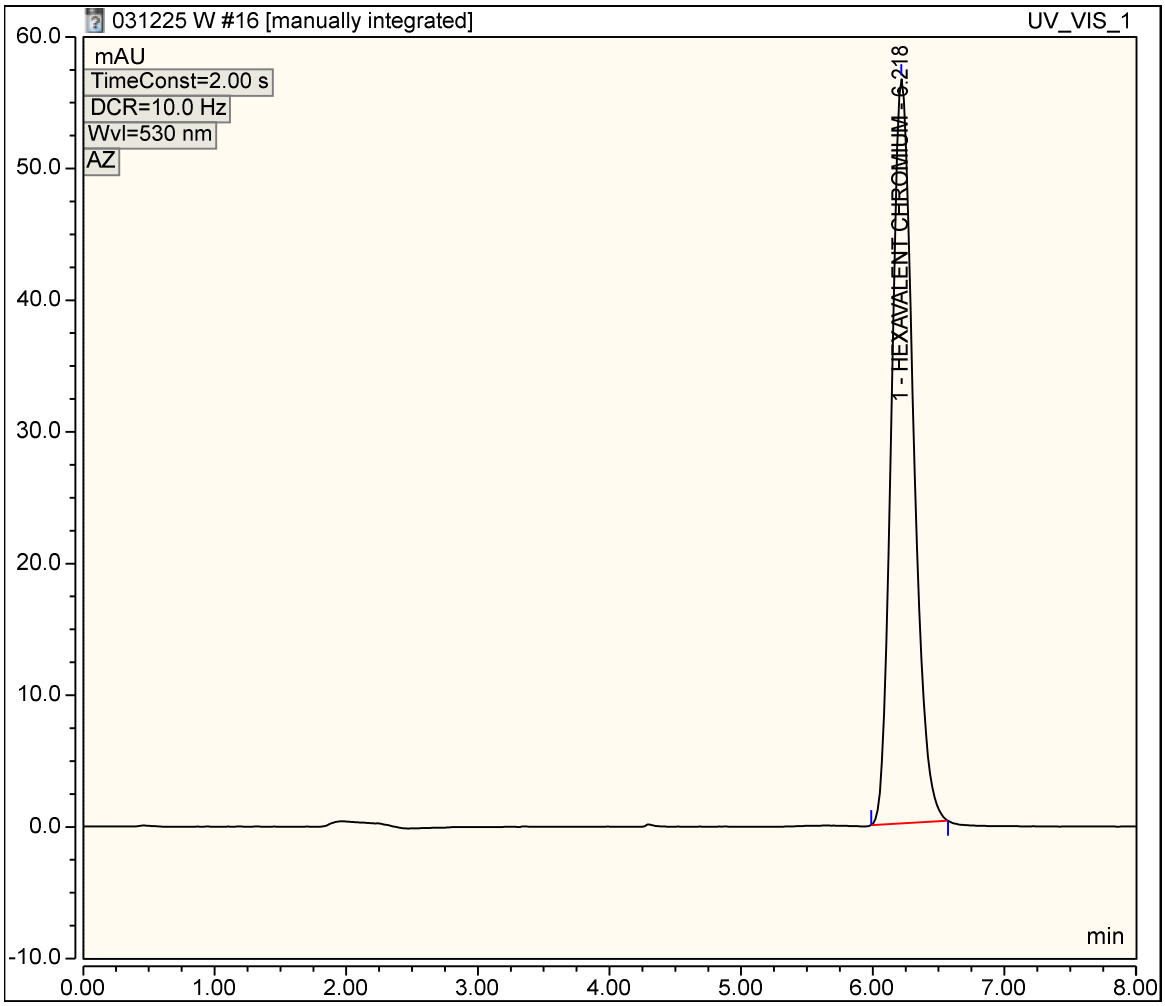
Sample Name:	**L1834905-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 00:04**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.29	HEXAVALENT CHROMIUM	BMB	0.001	0.029	0.7870
		TOTAL:		0.00	0.03	0.79



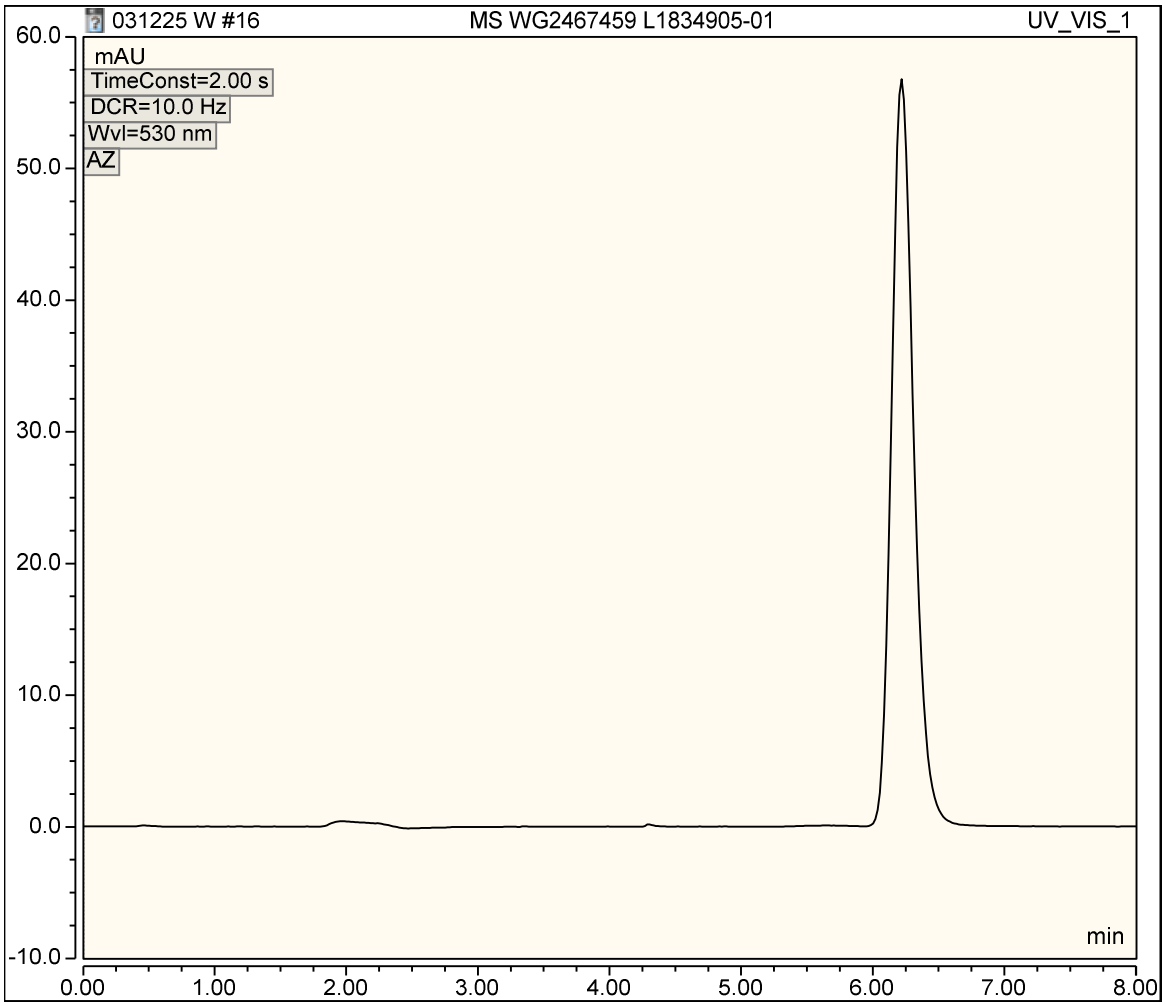
Sample Name:	**MS WG2467459 L1834905-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 00:15**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.22	HEXAVALENT CHROMIUM	BMB*	10.931	56.528	47.7751
		TOTAL:		10.93	56.53	47.78



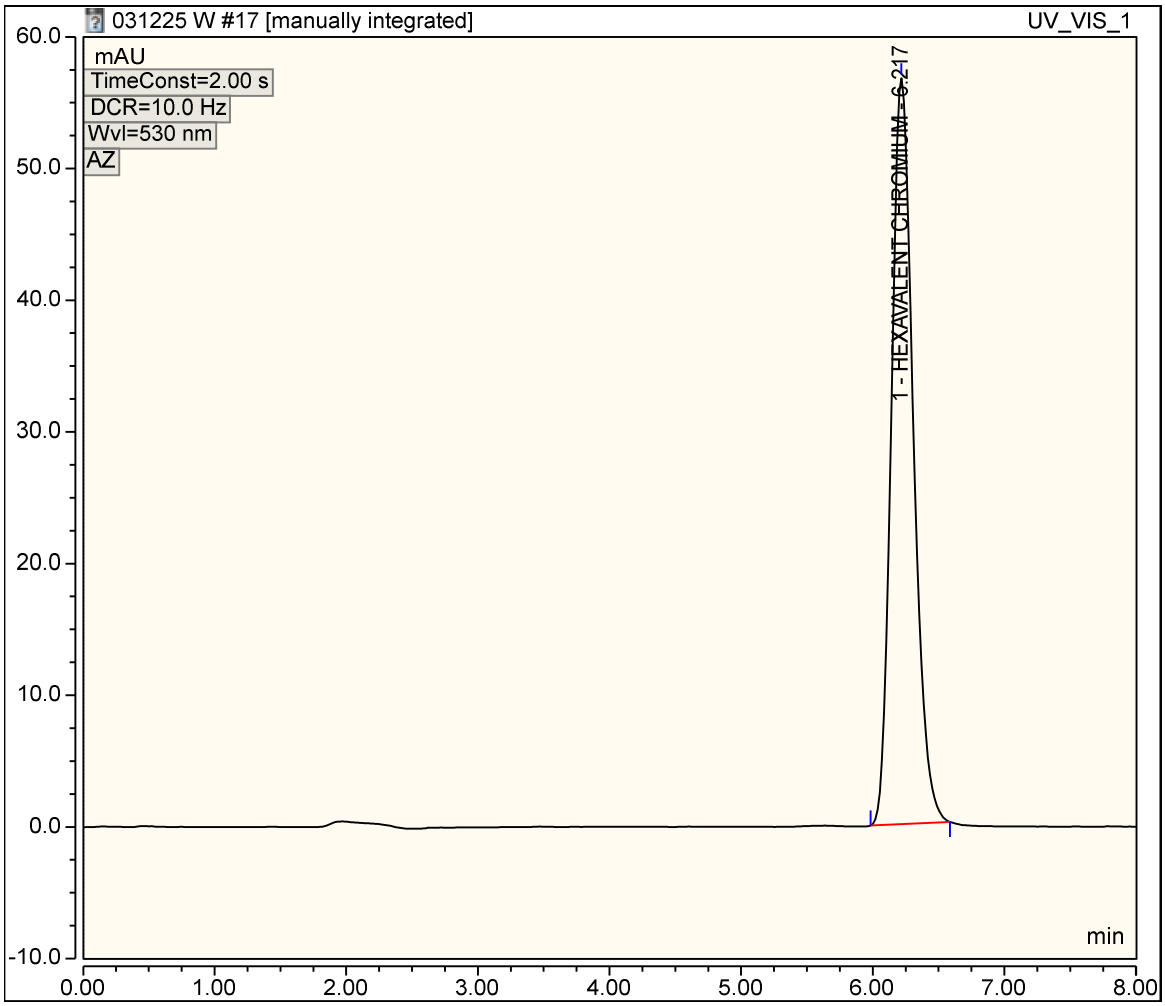
Sample Name:	**MS WG2467459 L1834905-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 00:15**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



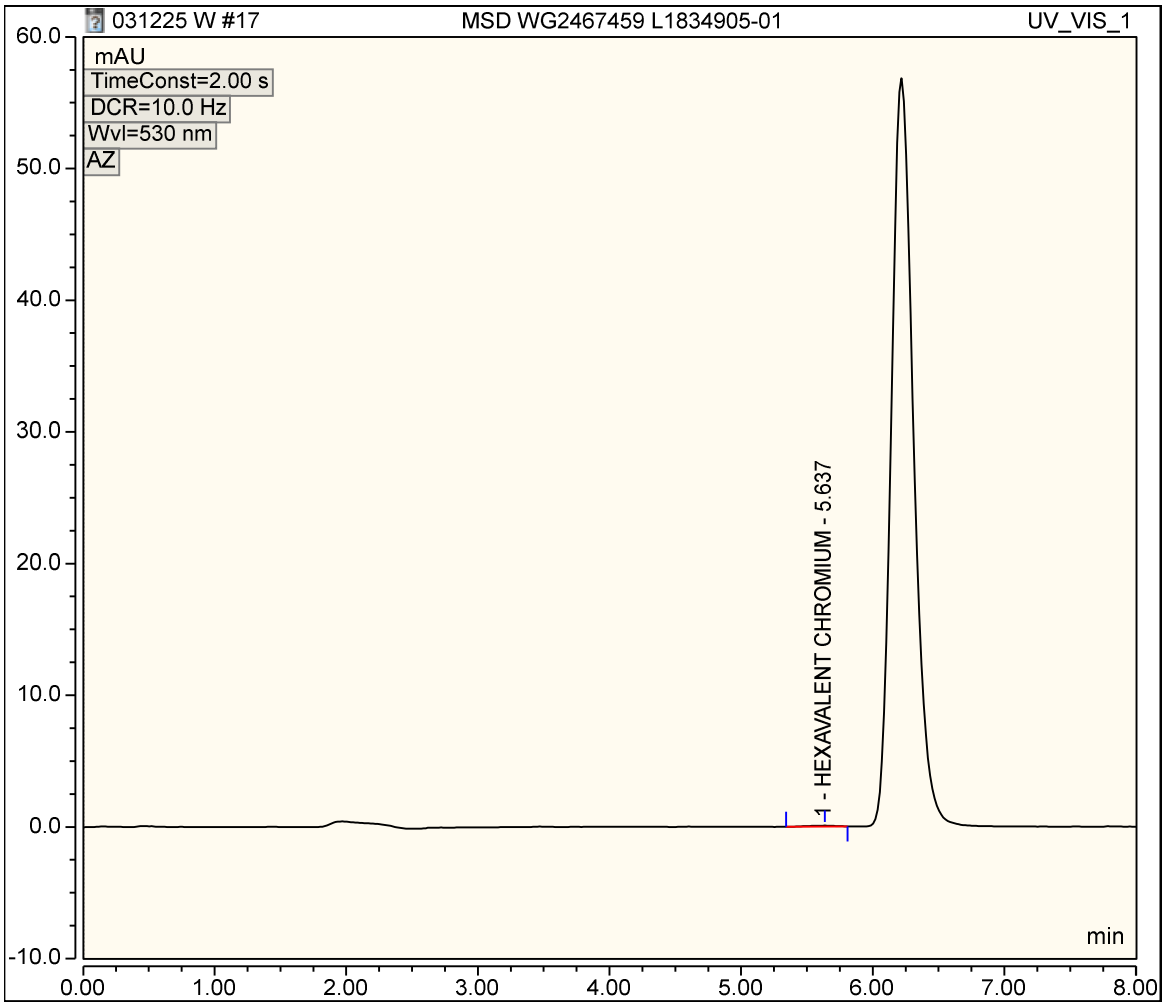
Sample Name:	**MSD WG2467459 L1834905-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 00:25**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.22	HEXAVALENT CHROMIUM	BMB*	10.950	56.655	47.8551
		TOTAL:		10.95	56.66	47.86



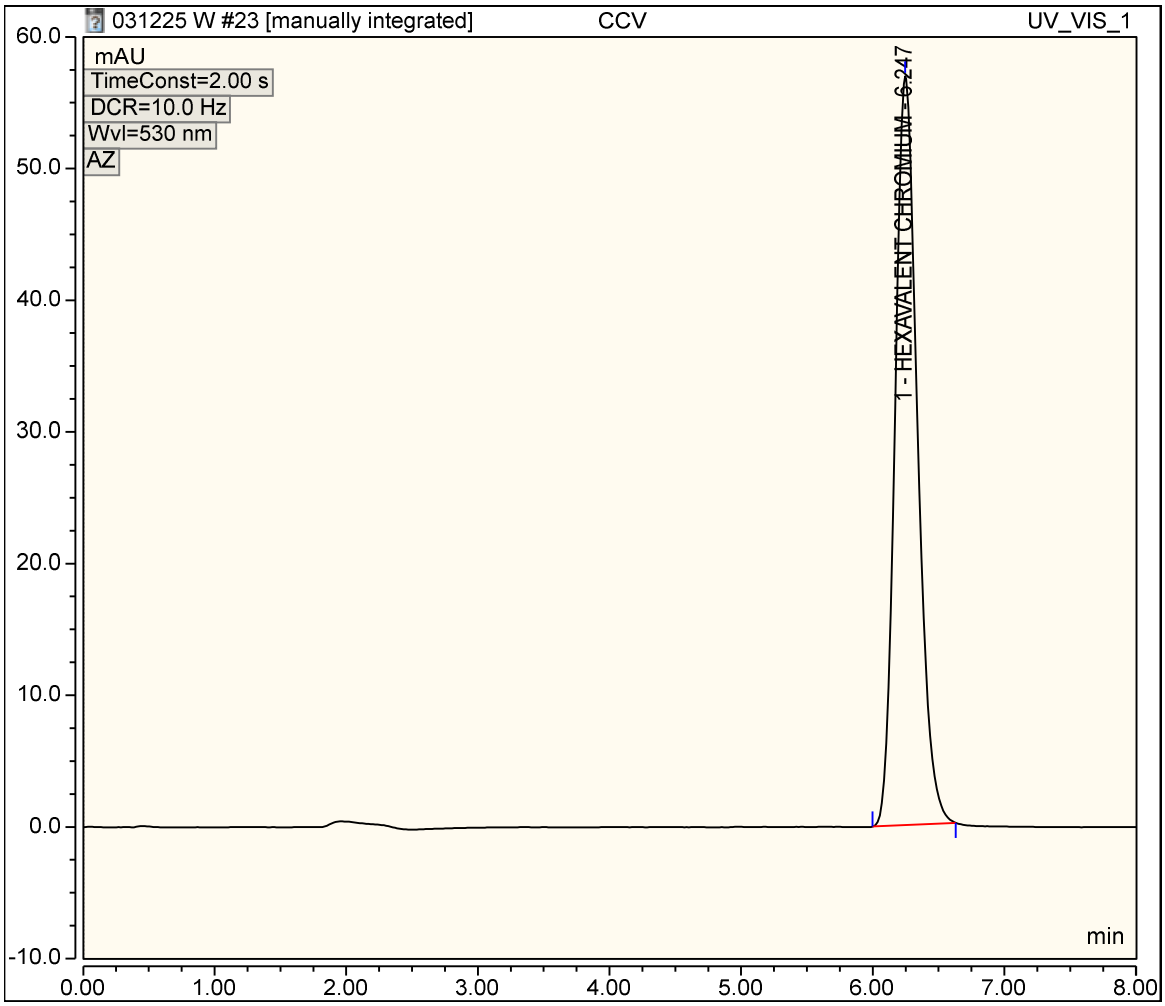
Sample Name:	**MSD WG2467459 L1834905-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 00:25**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.64	HEXAVALENT CHROMIUM	BMB	0.018	0.076	11.4931
		TOTAL:		0.02	0.08	11.49



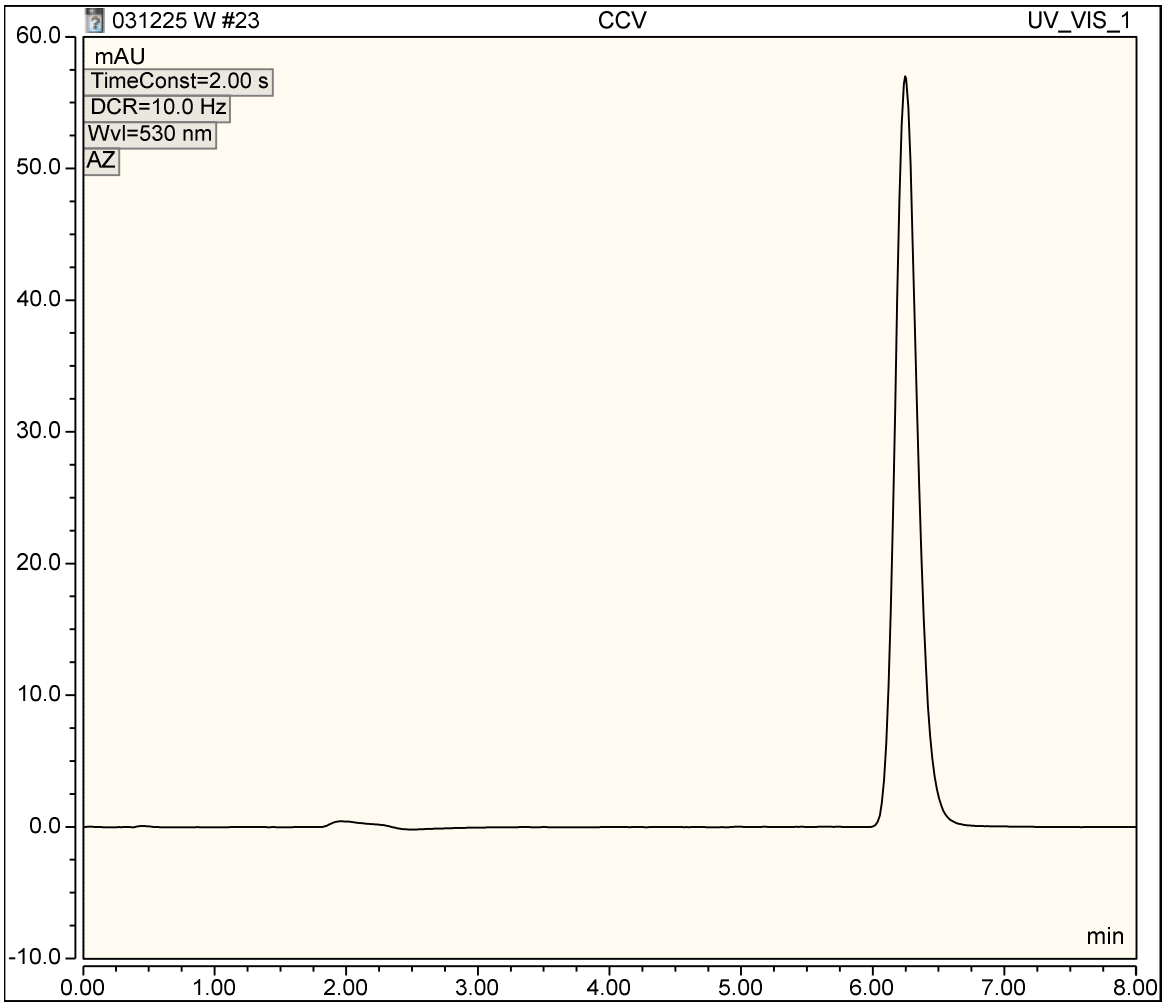
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 01:31**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.25	HEXAVALENT CHROMIUM	BMB*	11.222	56.856	49.0455
		TOTAL:		11.22	56.86	49.05



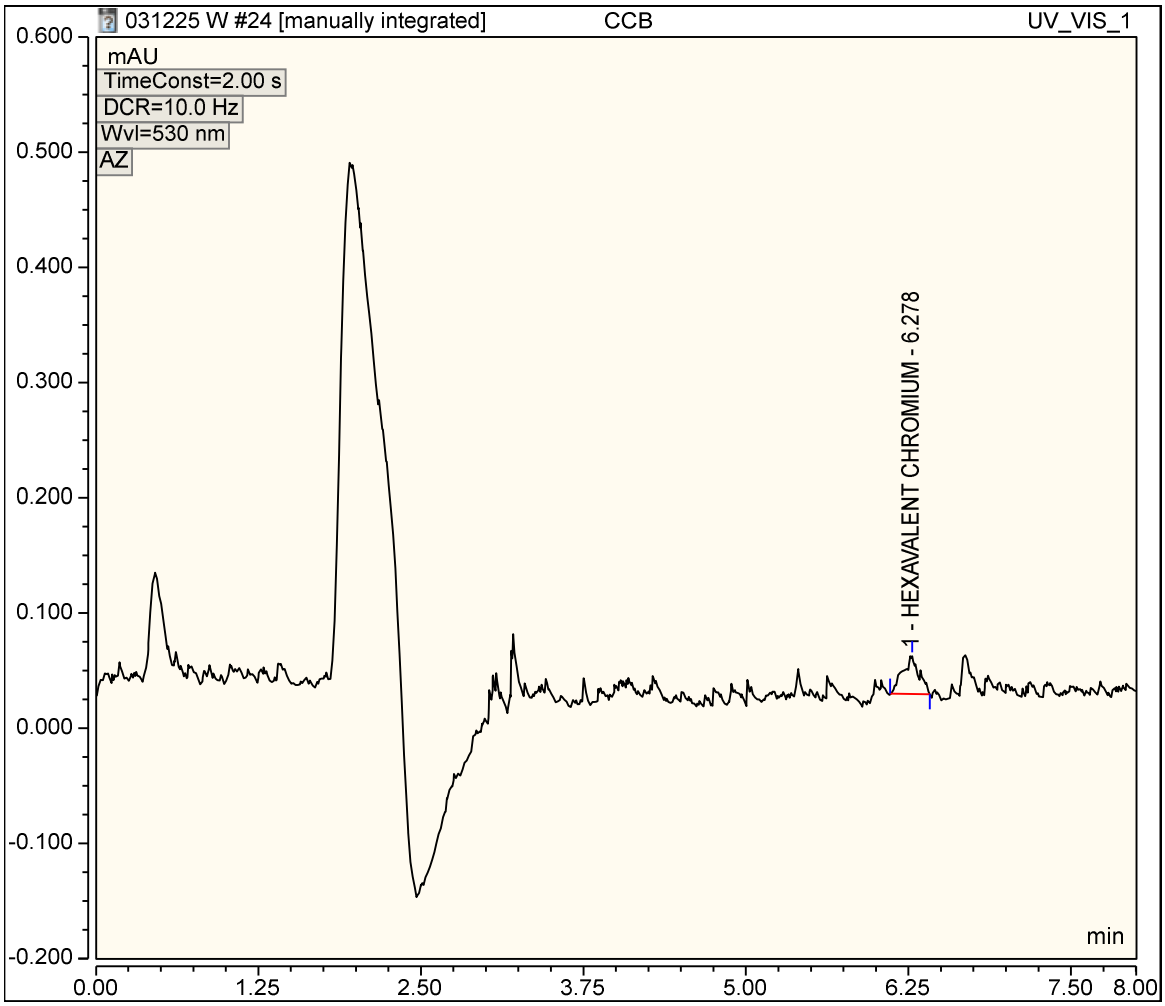
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 01:31**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



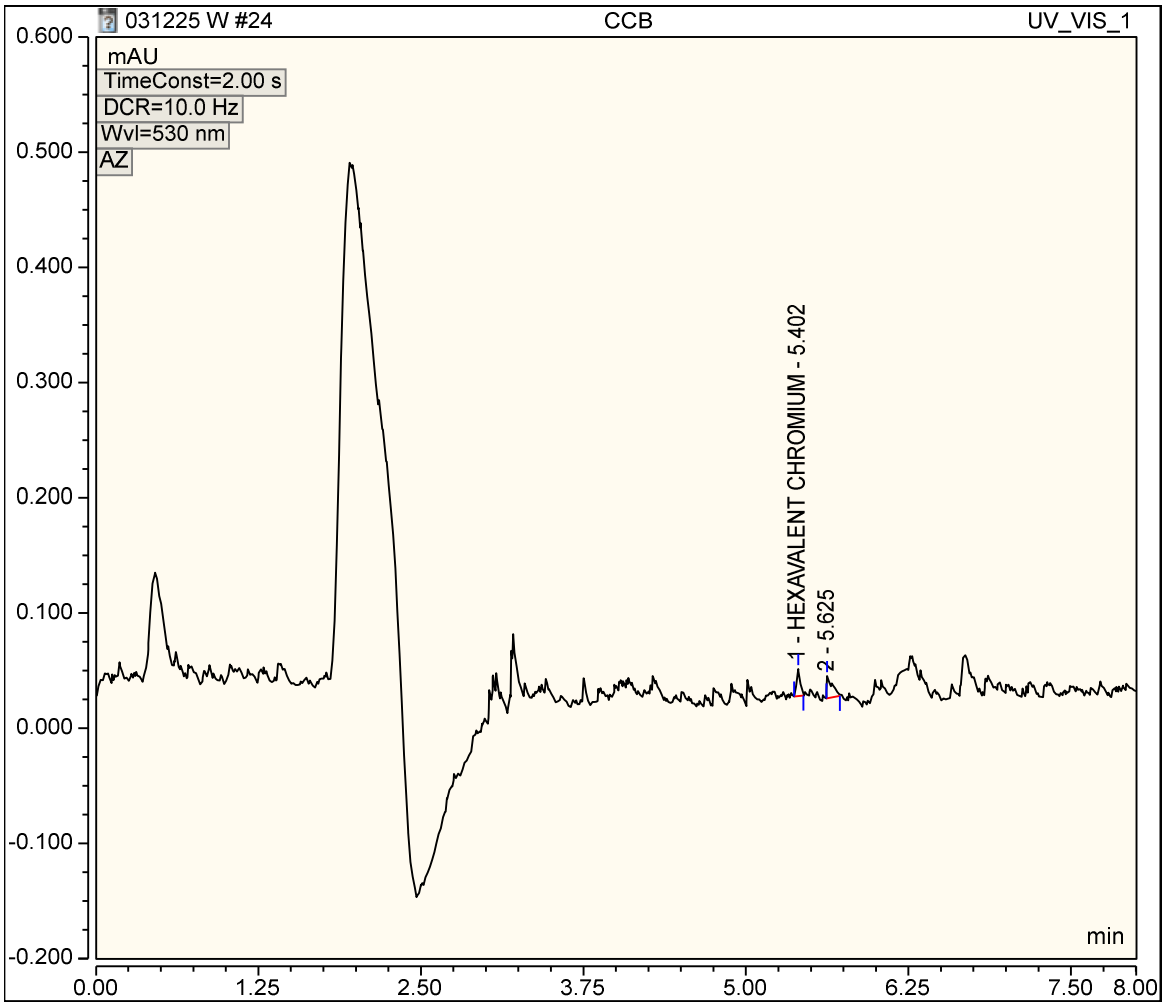
Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 01:42**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.28	HEXAVALENT CHROMIUM	BMB*	0.005	0.033	n.a.
		TOTAL:		0.00	0.03	0.00



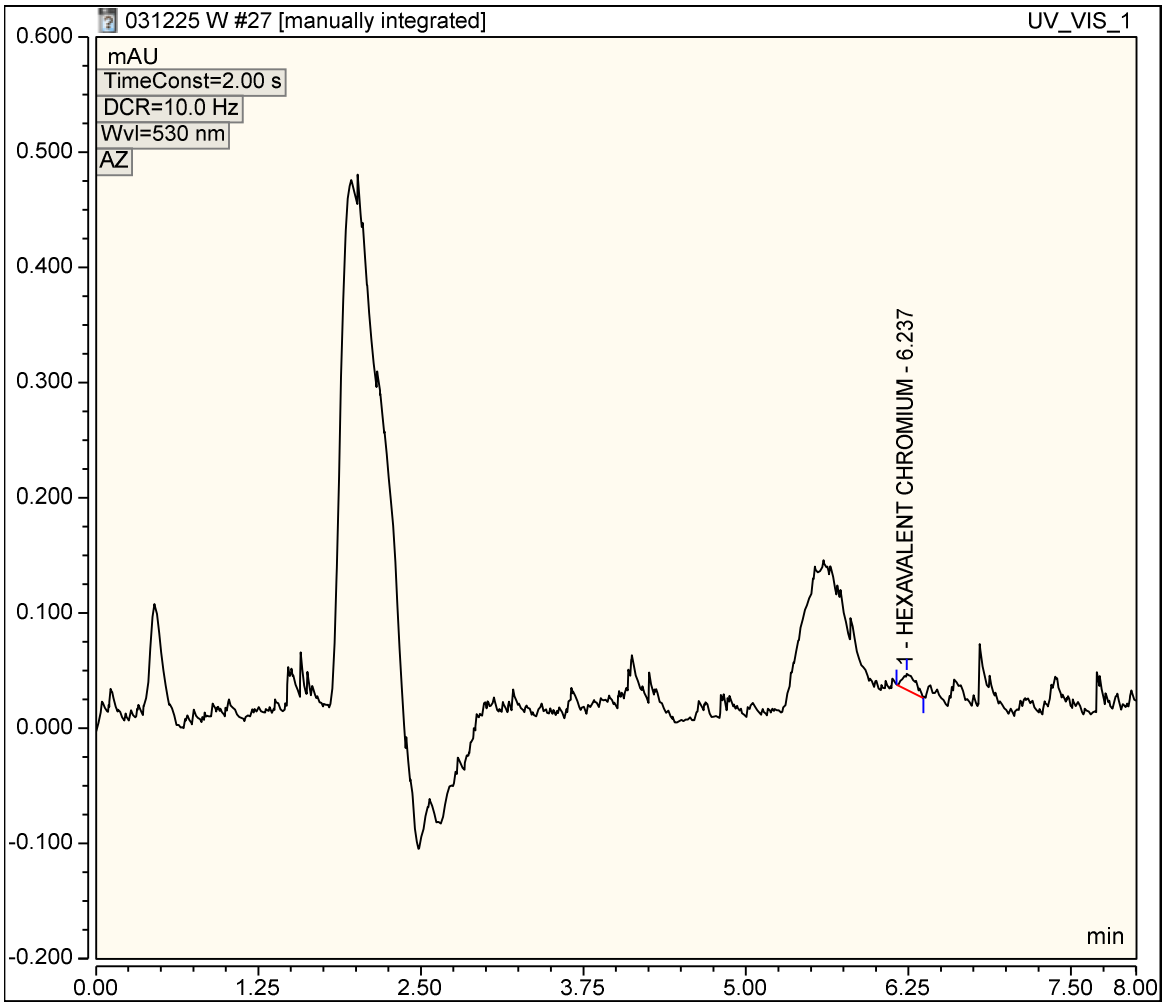
Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 01:42**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.40	HEXAVALENT CHROMIUM	BMB	0.001	0.023	0.3065
		TOTAL:		0.00	0.02	0.31



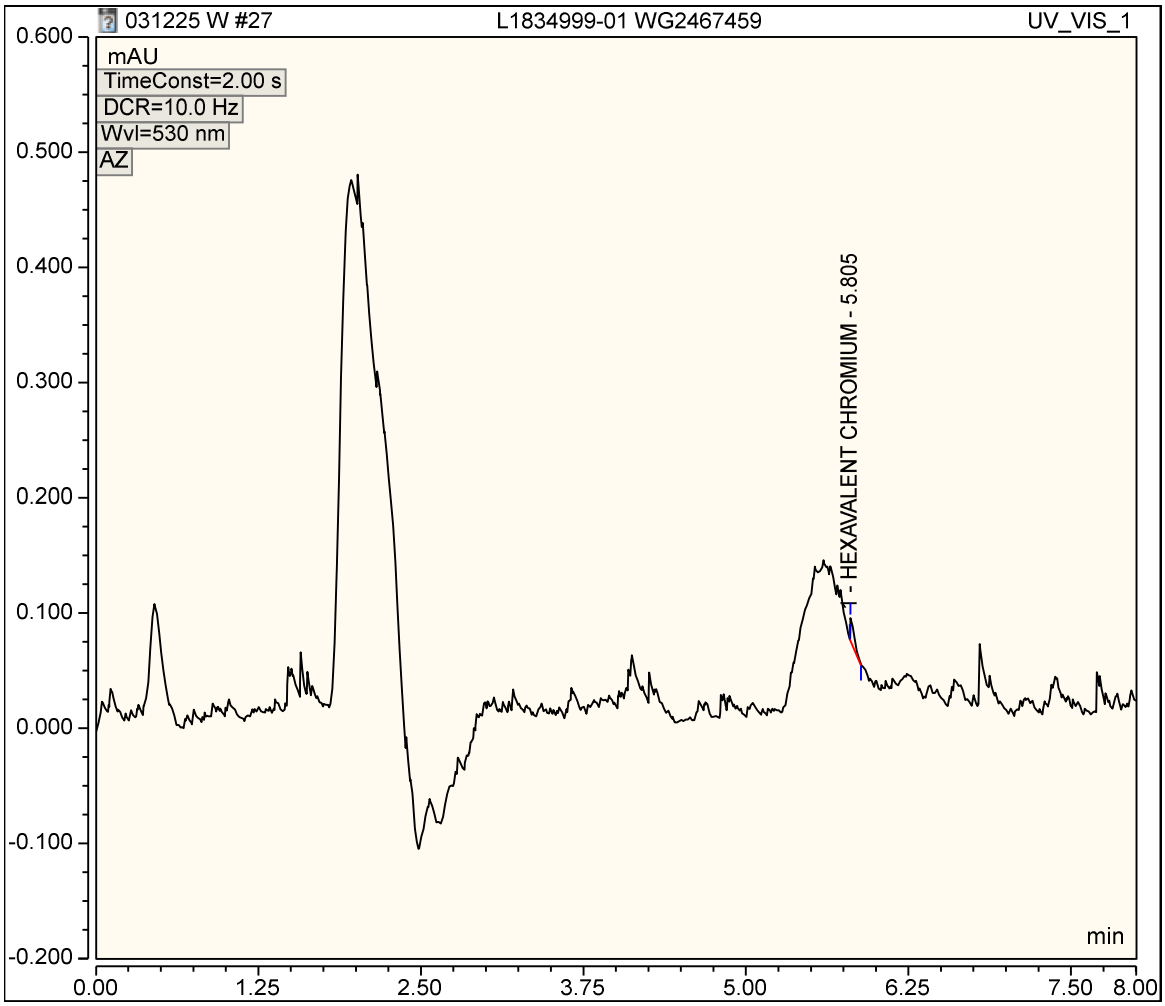
Sample Name:	**L1834999-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:14**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	HEXAVALENT CHROMIUM	BMB*	0.002	0.014	n.a.
		TOTAL:		0.00	0.01	0.00



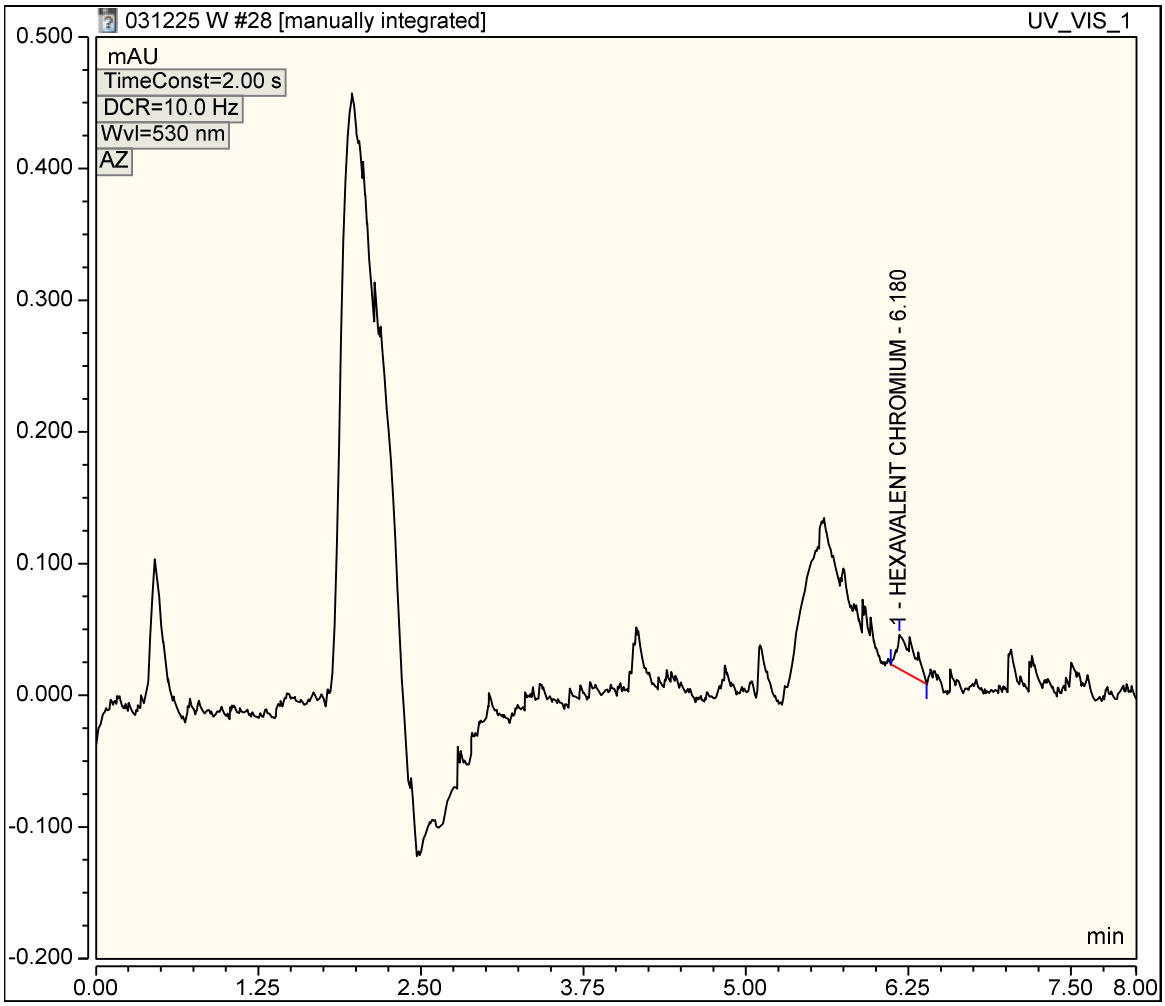
Sample Name:	**L1834999-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:14**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.80	HEXAVALENT CHROMIUM	BMB	0.001	0.020	0.3288
		TOTAL:		0.00	0.02	0.33



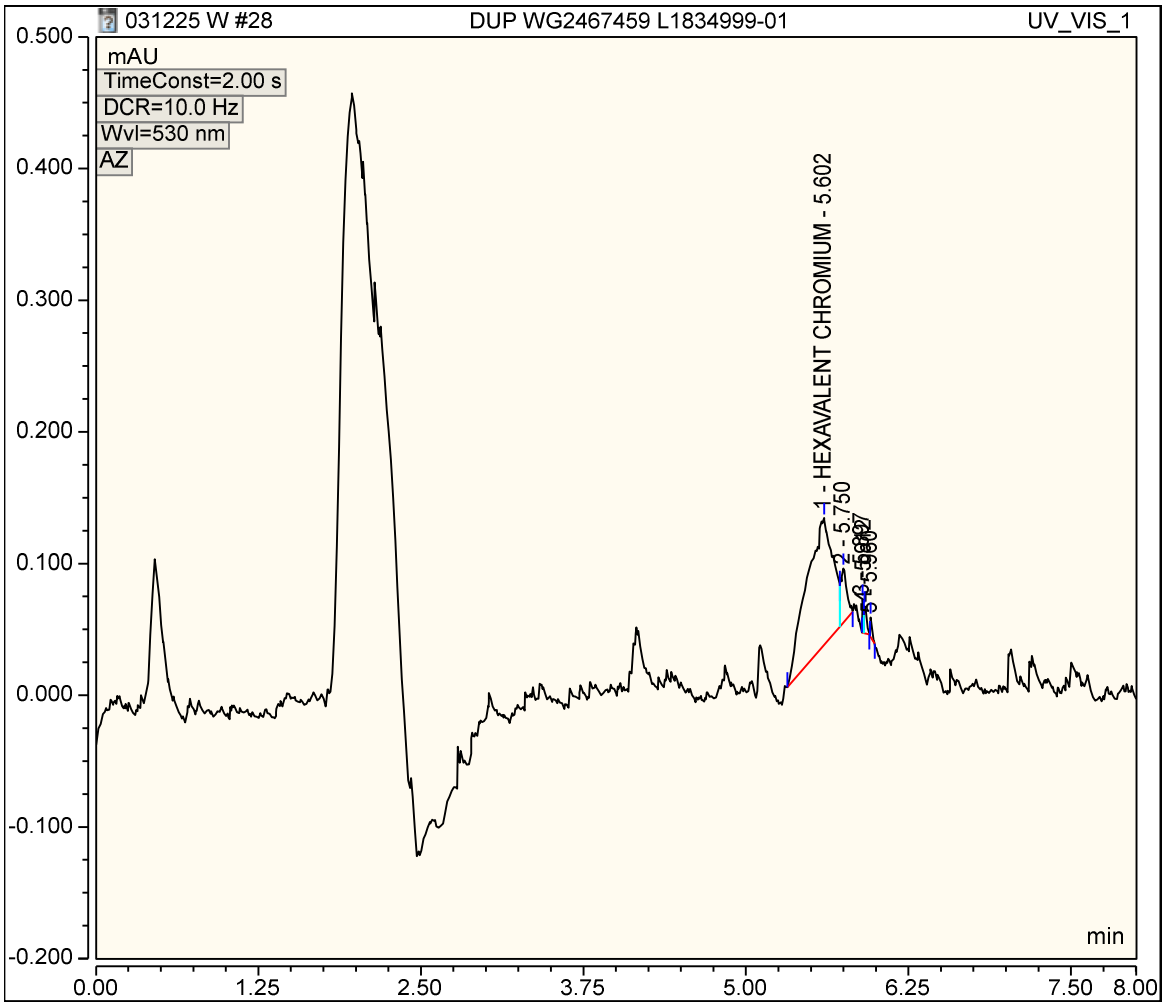
Sample Name:	**DUP WG2467459 L1834999-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:25**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.18	HEXAVALENT CHROMIUM	BMB*	0.004	0.026	n.a.
		TOTAL:		0.00	0.03	0.00



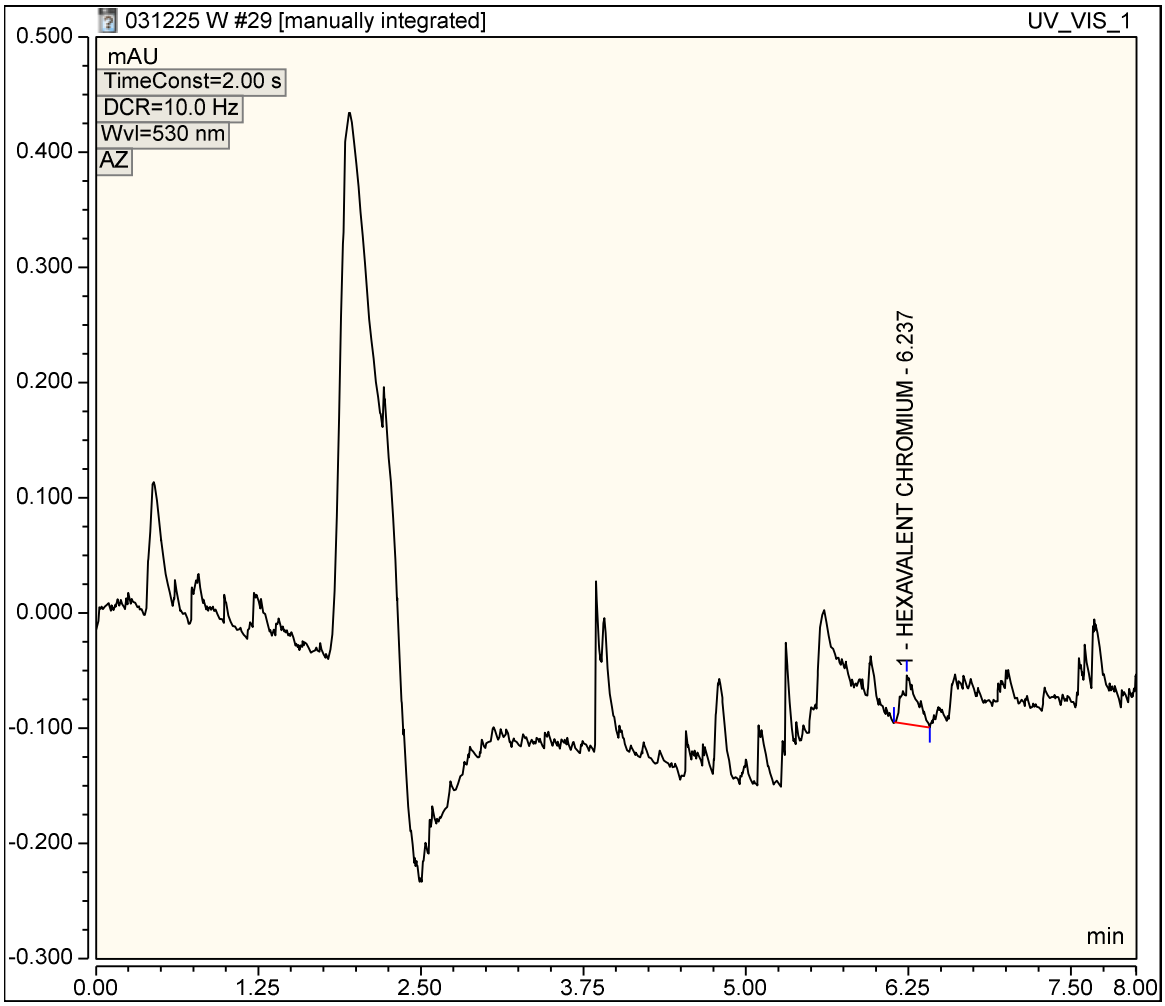
Sample Name:	**DUP WG2467459 L1834999-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:25**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.60	HEXAVALENT CHROMIUM	BM	0.023	0.096	14.4592
		TOTAL:		0.02	0.10	14.46



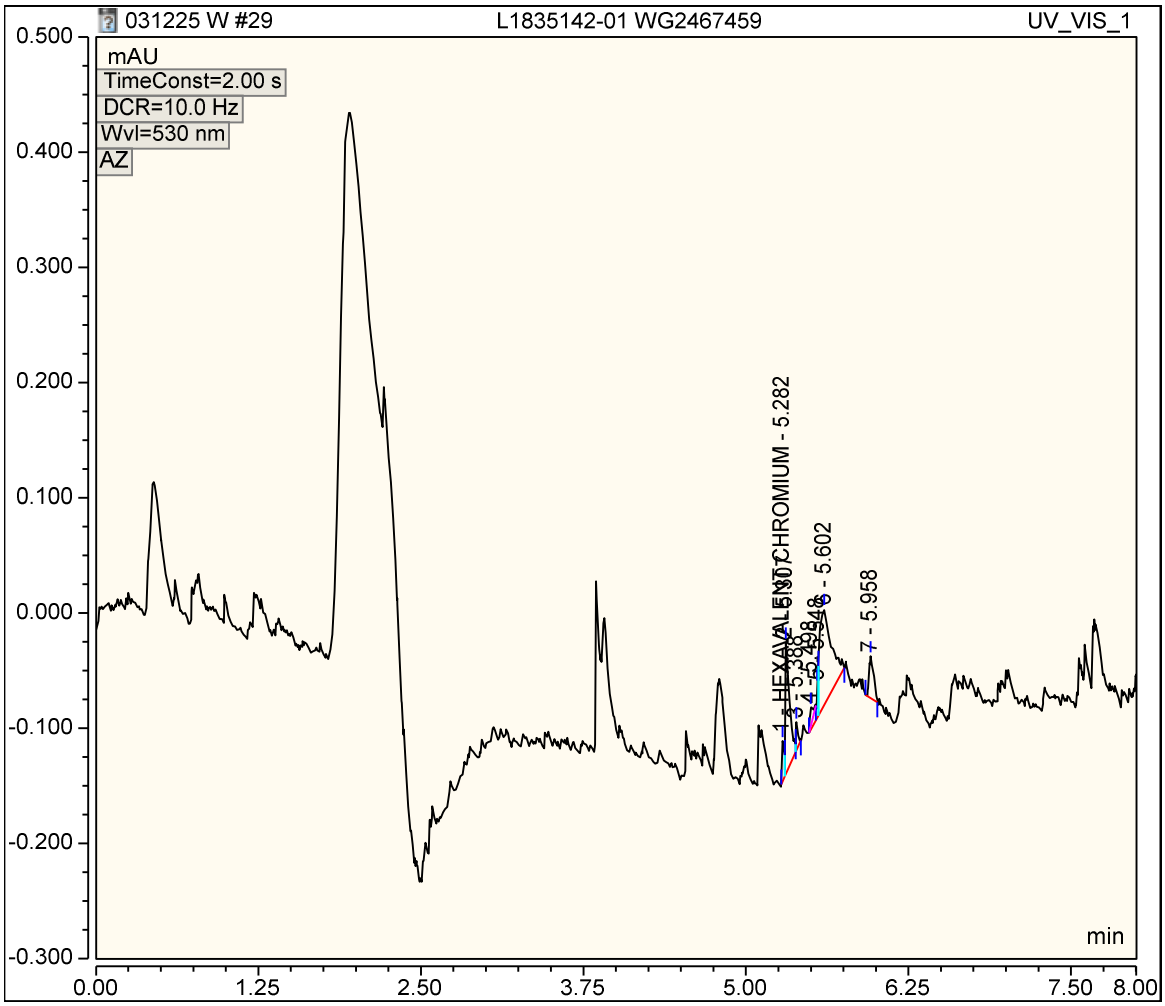
Sample Name:	**L1835142-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	HEXAVALENT CHROMIUM	BMB*	0.005	0.042	n.a.
		TOTAL:		0.01	0.04	0.00



Sample Name:	**L1835142-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.28	HEXAVALENT CHROMIUM	BM	0.001	0.035	0.1807
		TOTAL:		0.00	0.04	0.18

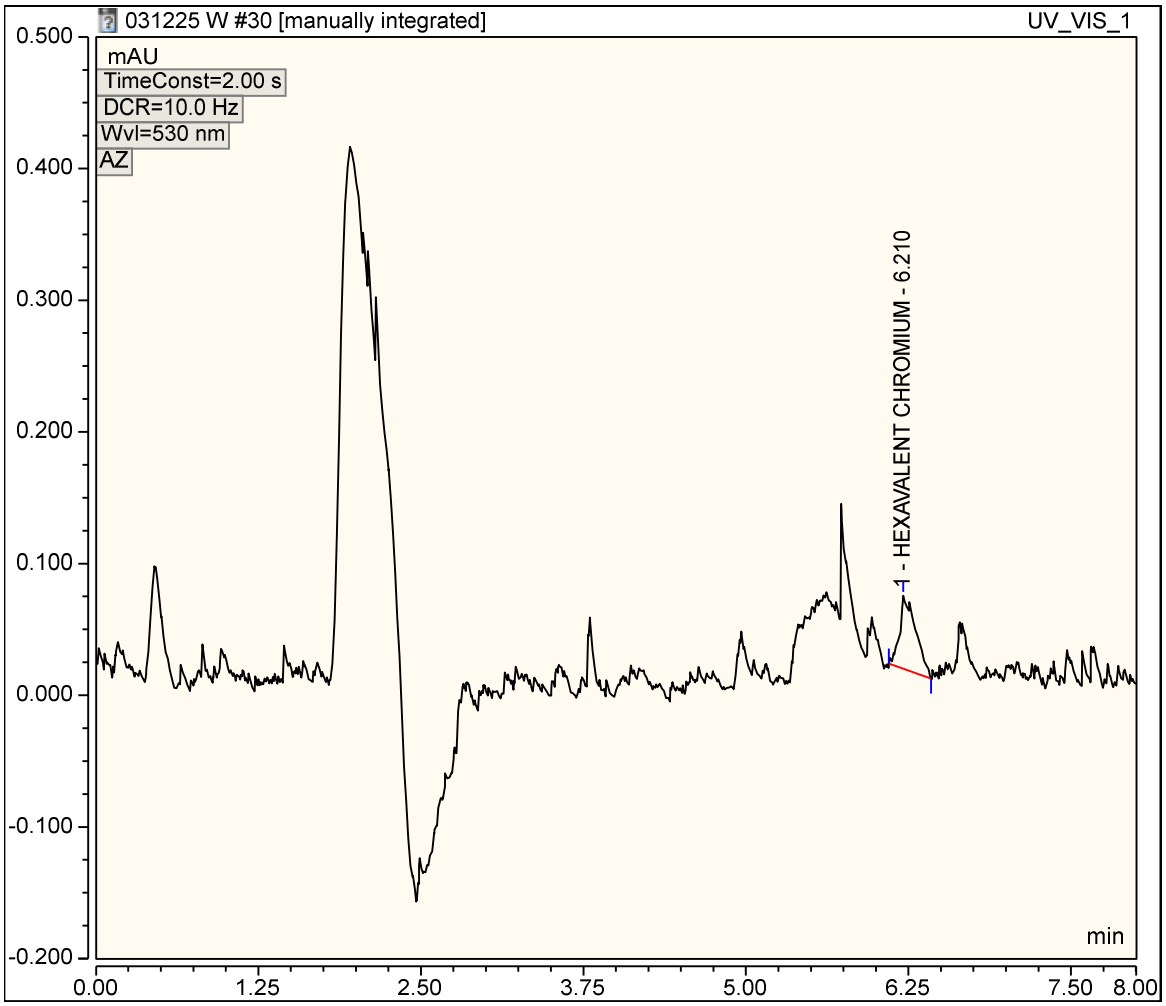


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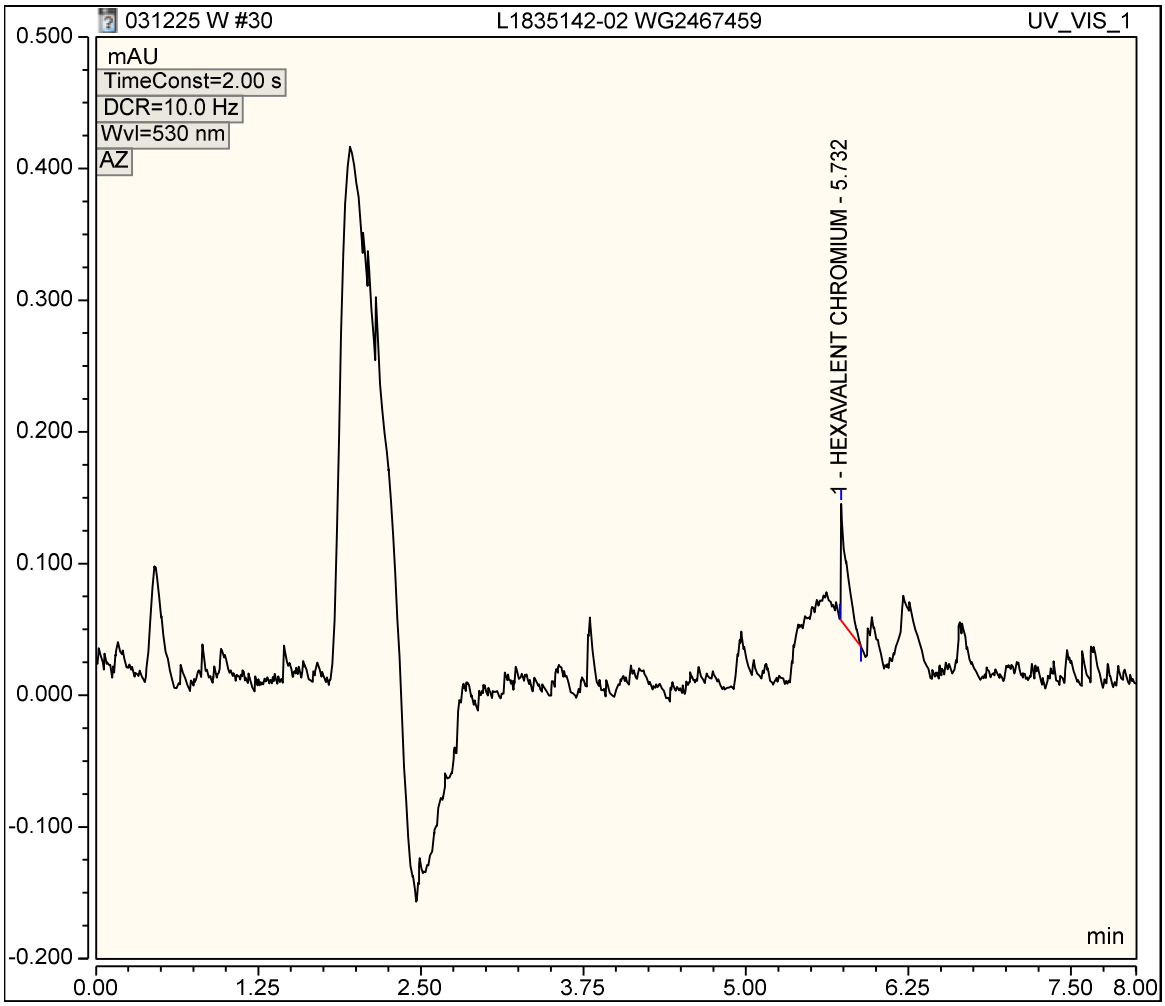
Sample Name:	**L1835142-02 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:47**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.21	HEXAVALENT CHROMIUM	BMB*	0.008	0.055	n.a.
		TOTAL:		0.01	0.06	0.00



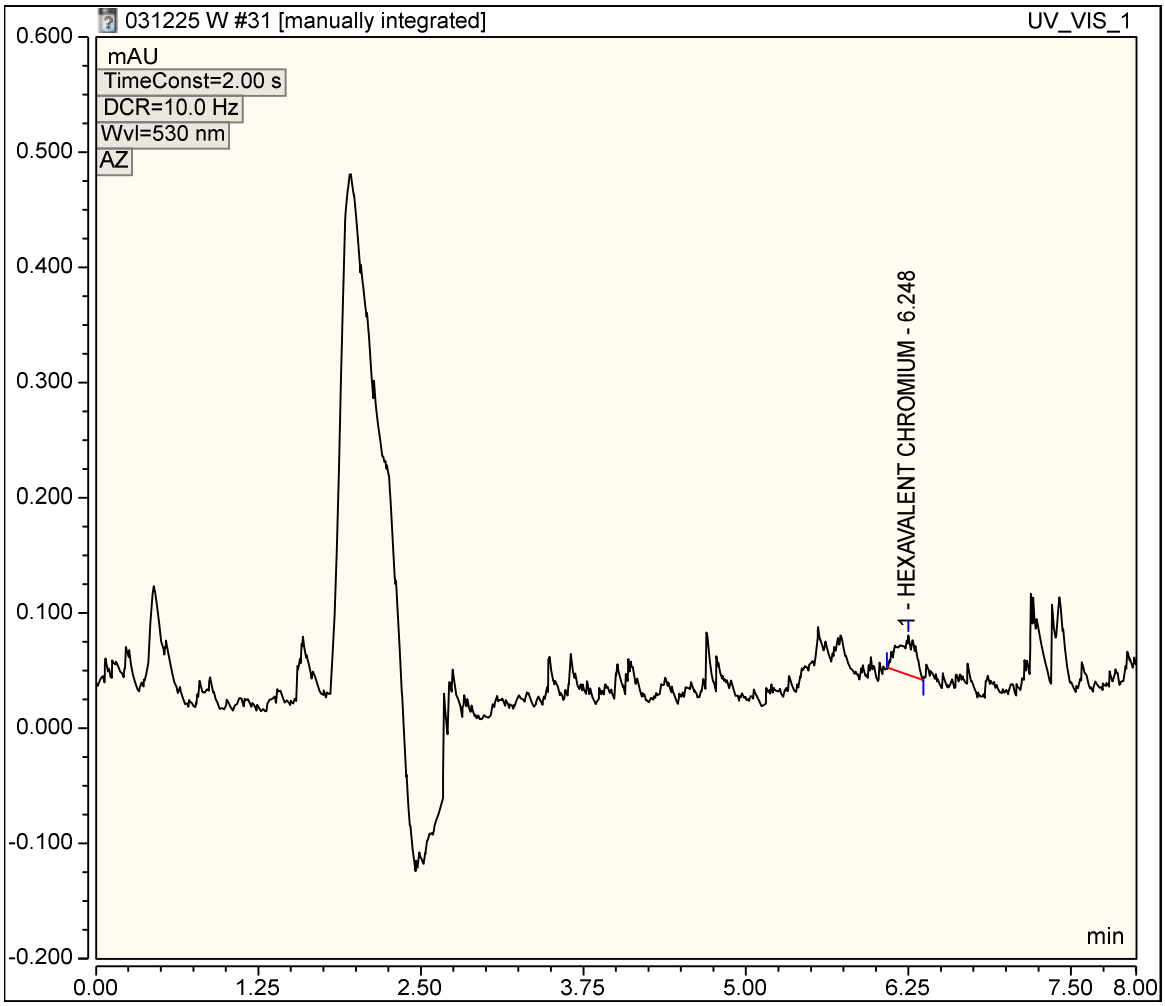
Sample Name:	**L1835142-02 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:47**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.73	HEXAVALENT CHROMIUM	BMB	0.005	0.088	2.9840
		TOTAL:		0.00	0.09	2.98



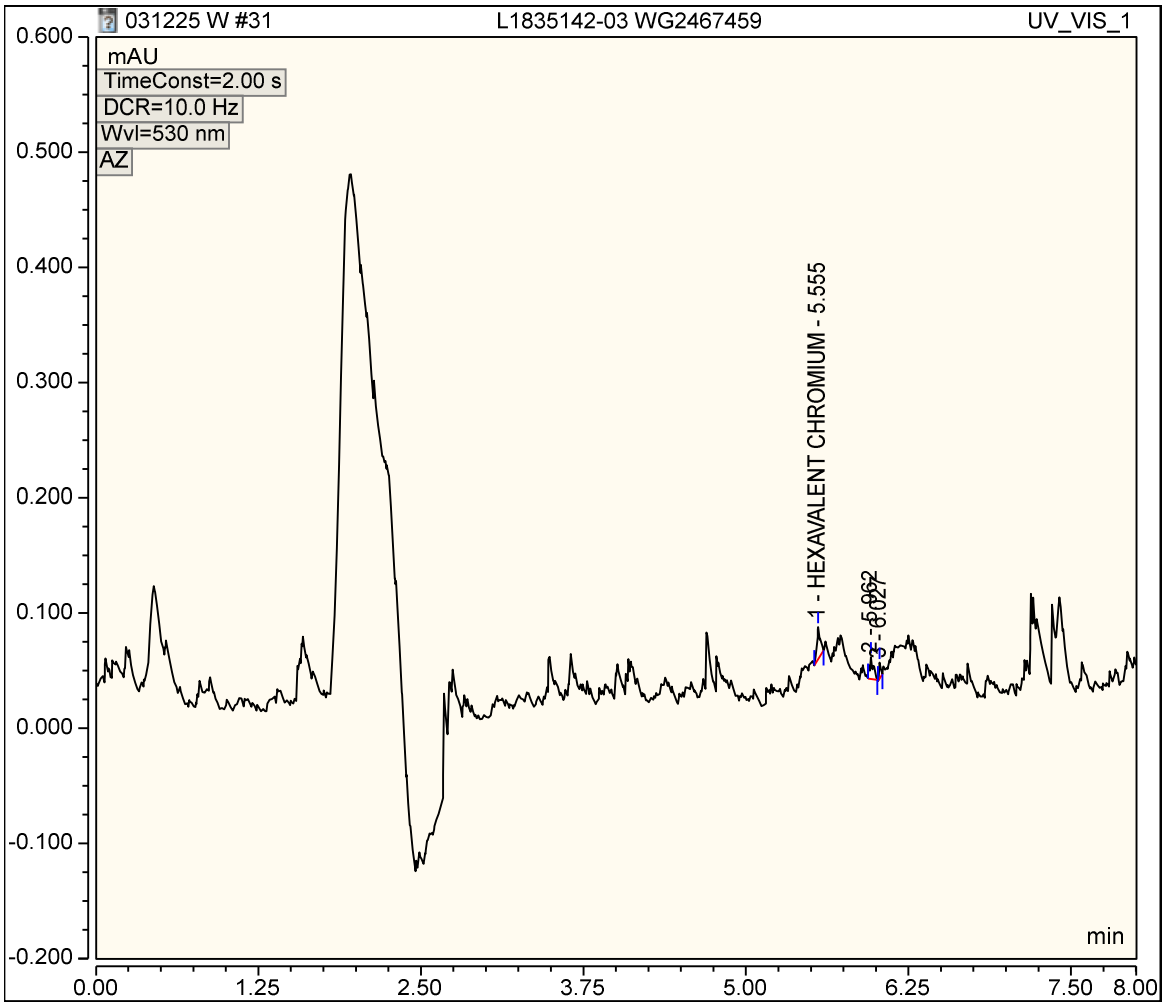
Sample Name:	**L1835142-03 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:58**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.25	HEXAVALENT CHROMIUM	BMB*	0.005	0.034	n.a.
		TOTAL:		0.01	0.03	0.00



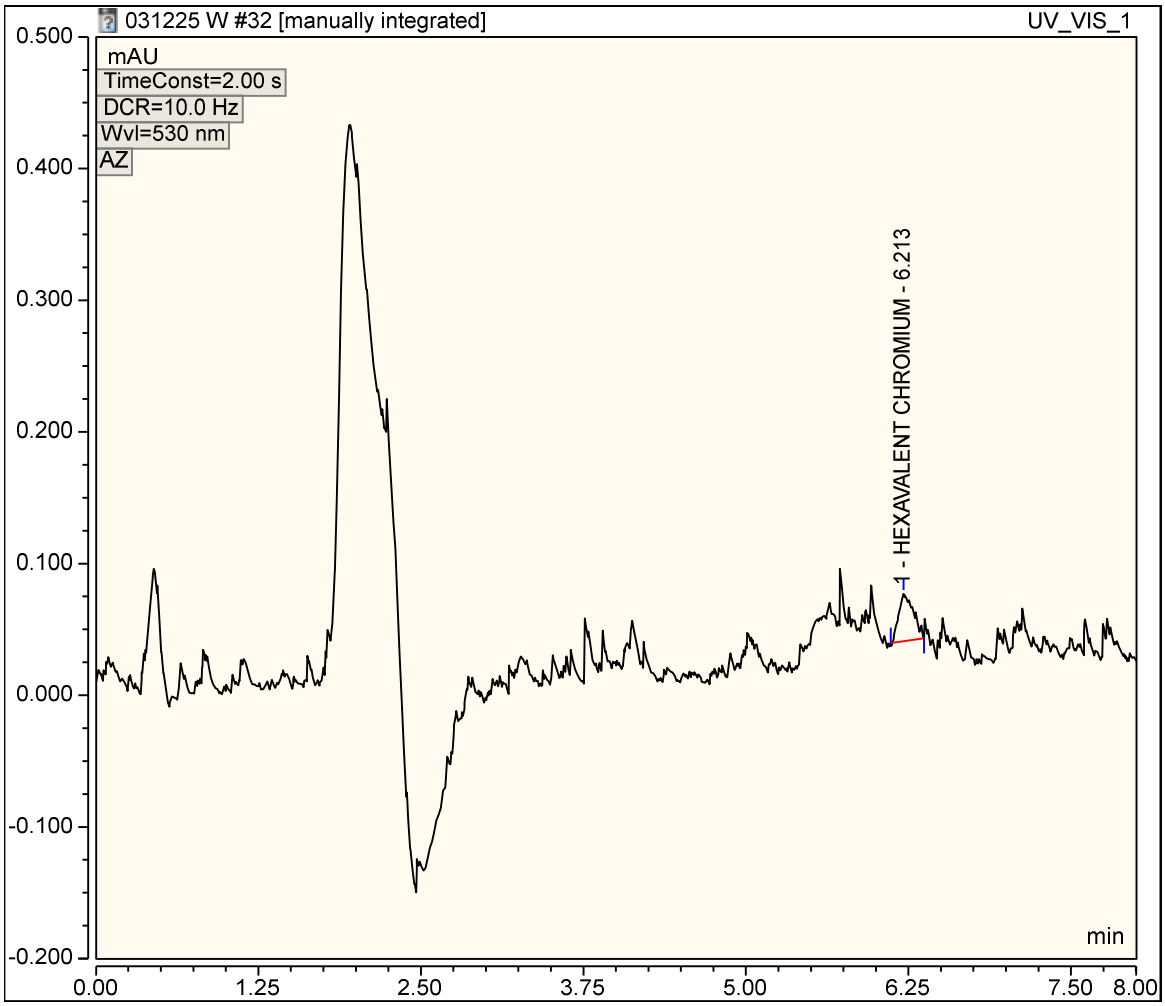
Sample Name:	**L1835142-03 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:58**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.55	HEXAVALENT CHROMIUM	BMB	0.001	0.028	0.4139
		TOTAL:		0.00	0.03	0.41



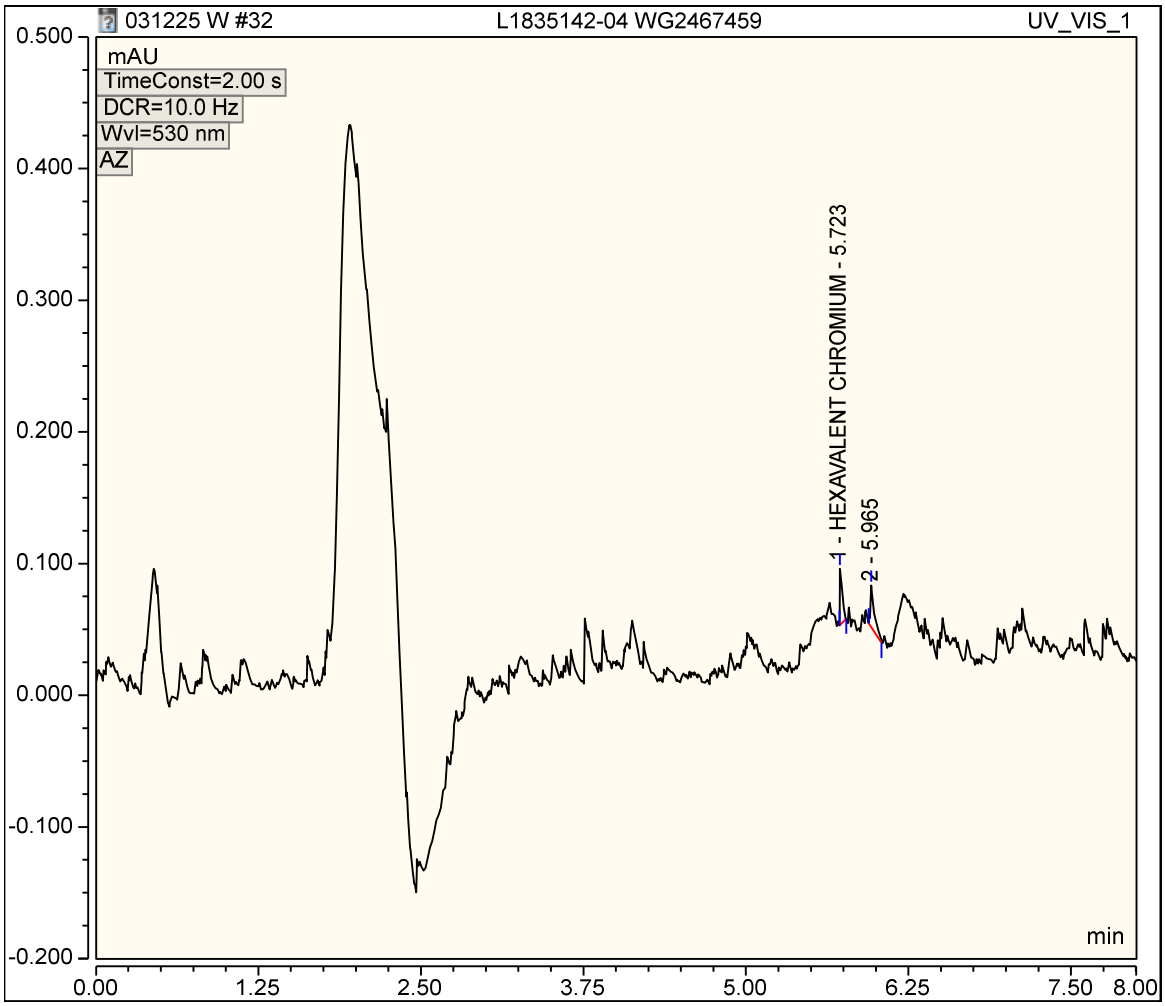
Sample Name:	**L1835142-04 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:09**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.21	HEXAVALENT CHROMIUM	BMB*	0.005	0.036	n.a.
		TOTAL:		0.00	0.04	0.00



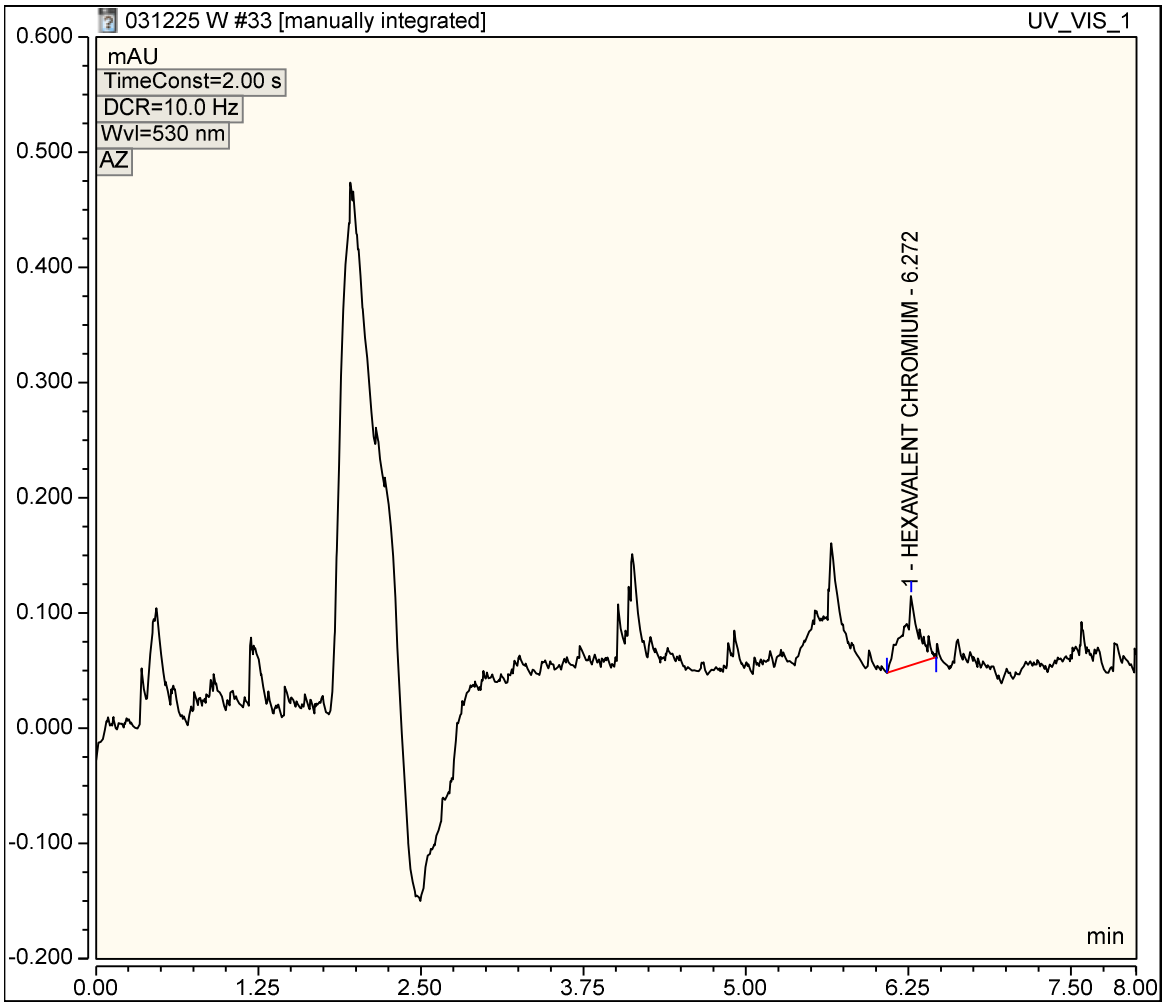
Sample Name:	**L1835142-04 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:09**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.72	HEXAVALENT CHROMIUM	BMB	0.001	0.043	0.4364
		TOTAL:		0.00	0.04	0.44



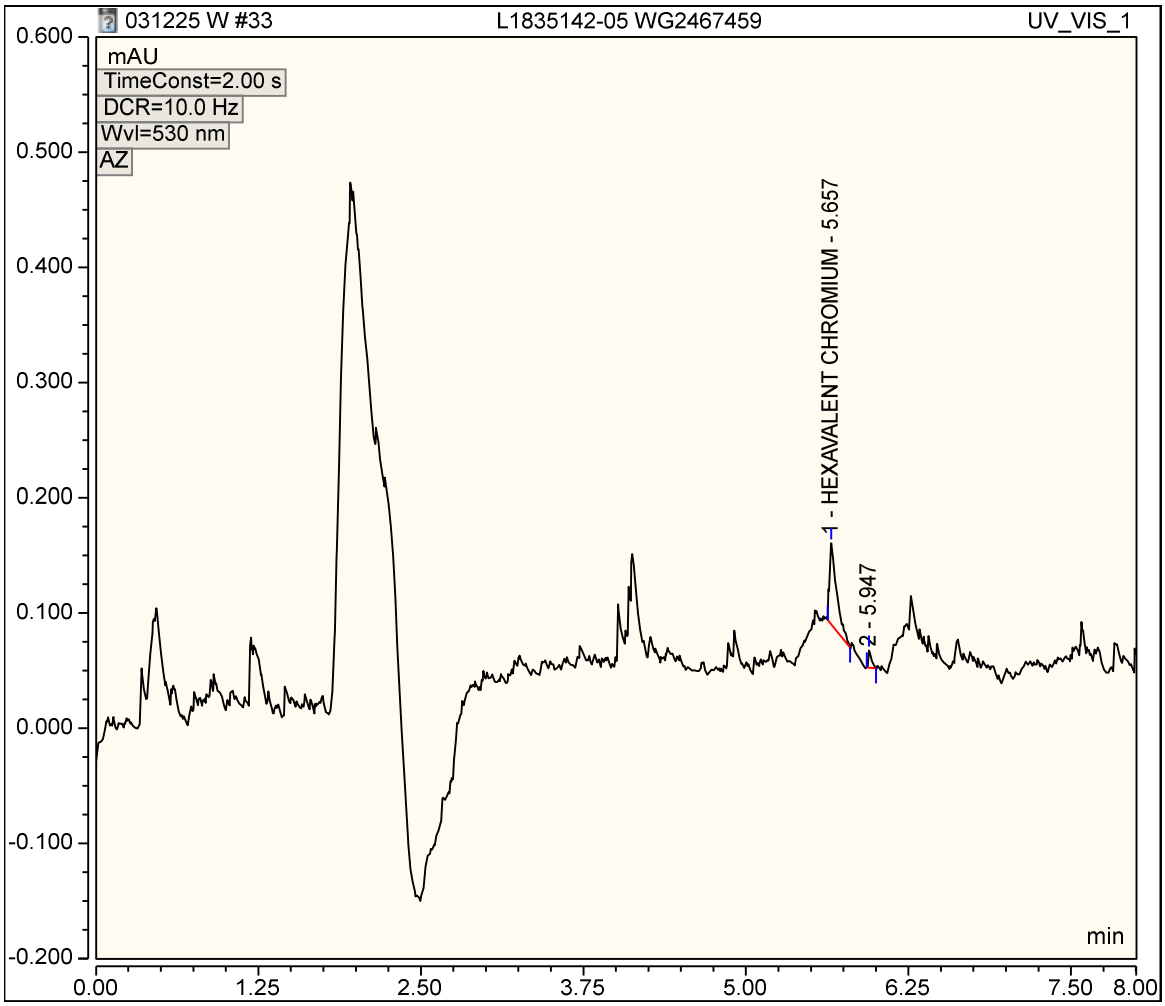
Sample Name:	**L1835142-05 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:20**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.27	HEXAVALENT CHROMIUM	BMB*	0.009	0.060	0.0011
		TOTAL:		0.01	0.06	0.00



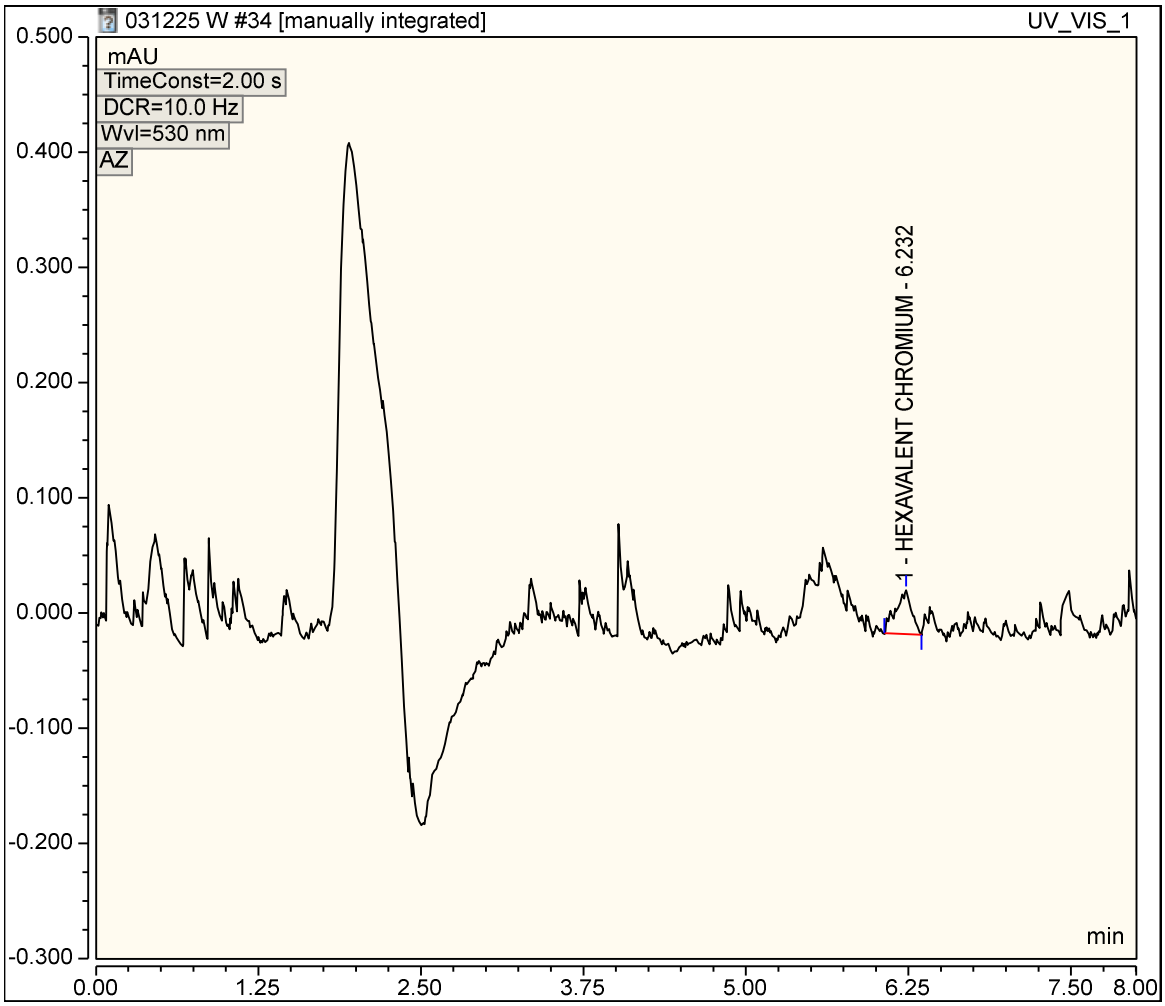
Sample Name:	**L1835142-05 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:20**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.66	HEXAVALENT CHROMIUM	BMB	0.004	0.071	2.6373
		TOTAL:		0.00	0.07	2.64



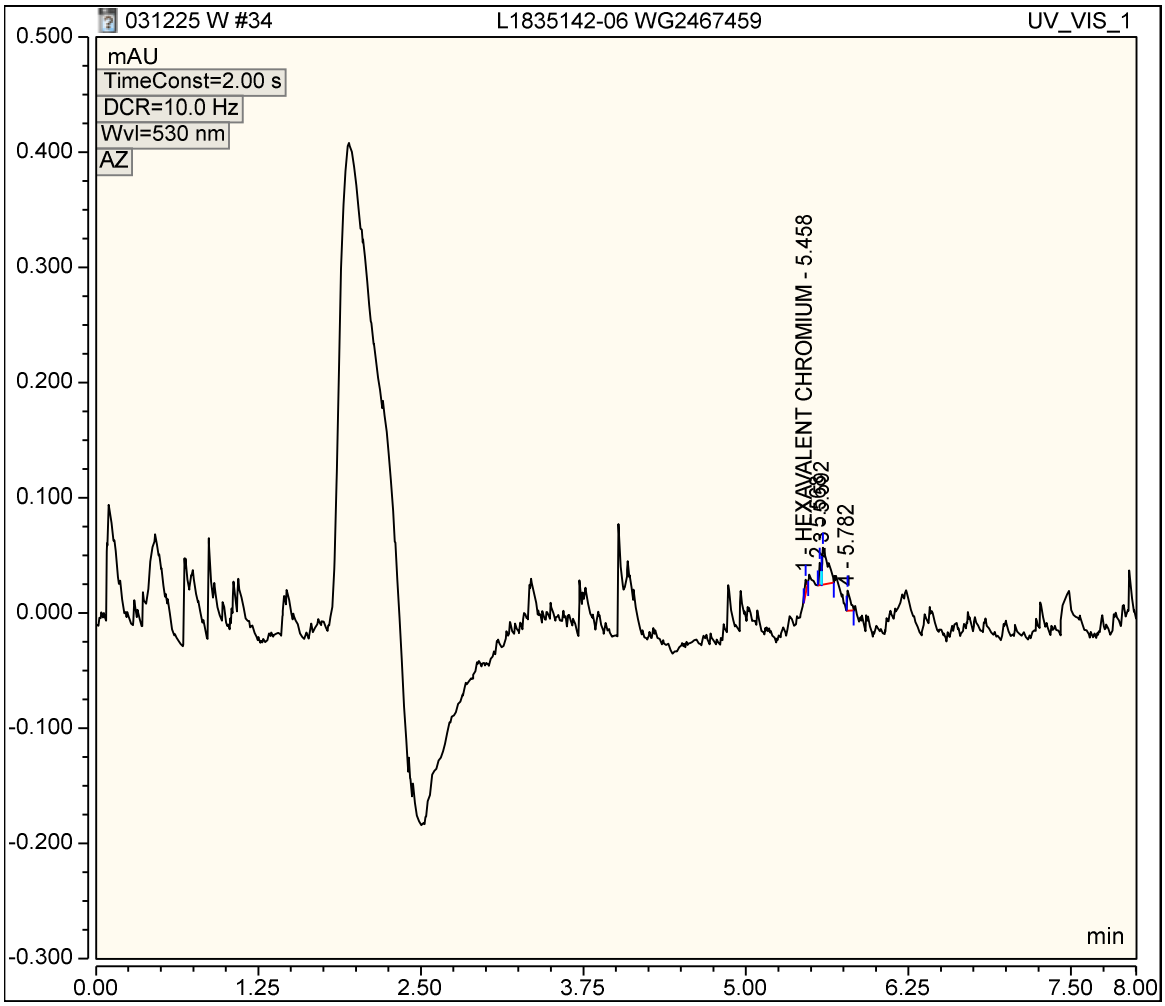
Sample Name:	**L1835142-06 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:30**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	0.005	0.038	n.a.
		TOTAL:		0.01	0.04	0.00



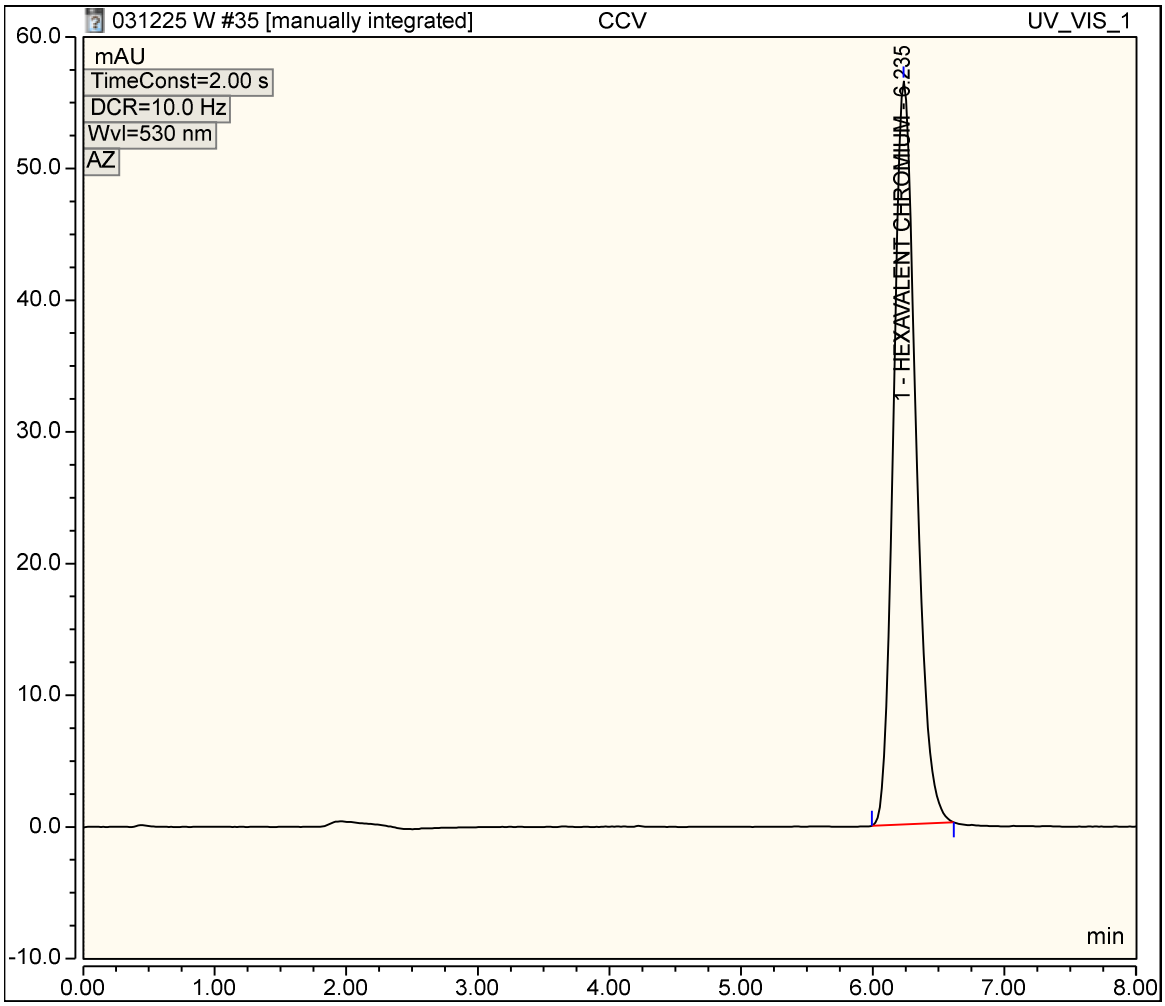
Sample Name:	**L1835142-06 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:30**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.46	HEXAVALENT CHROMIUM	BMB	0.000	0.013	n.a.
		TOTAL:		0.00	0.01	0.00



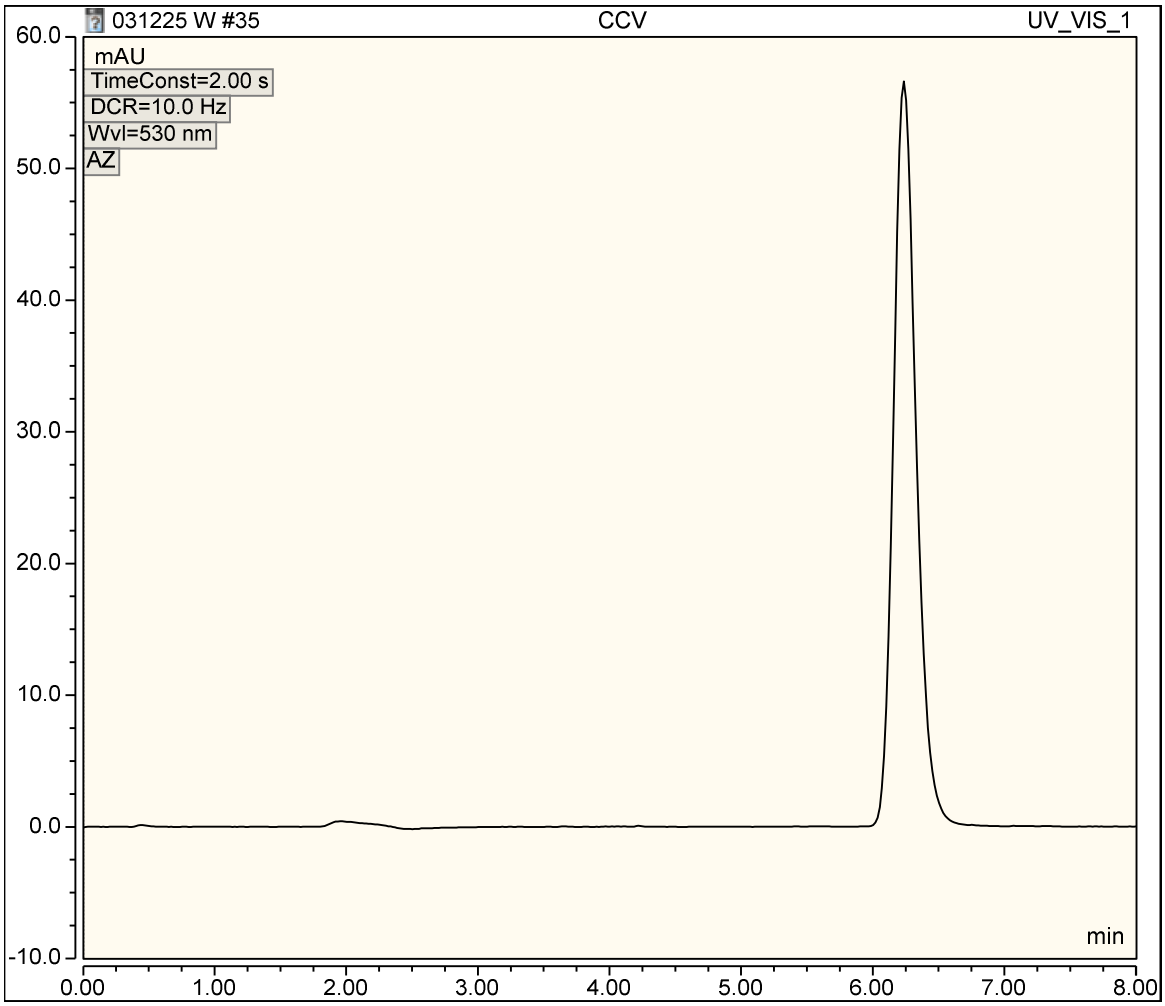
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:41**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	11.136	56.422	48.6689
		TOTAL:		11.14	56.42	48.67



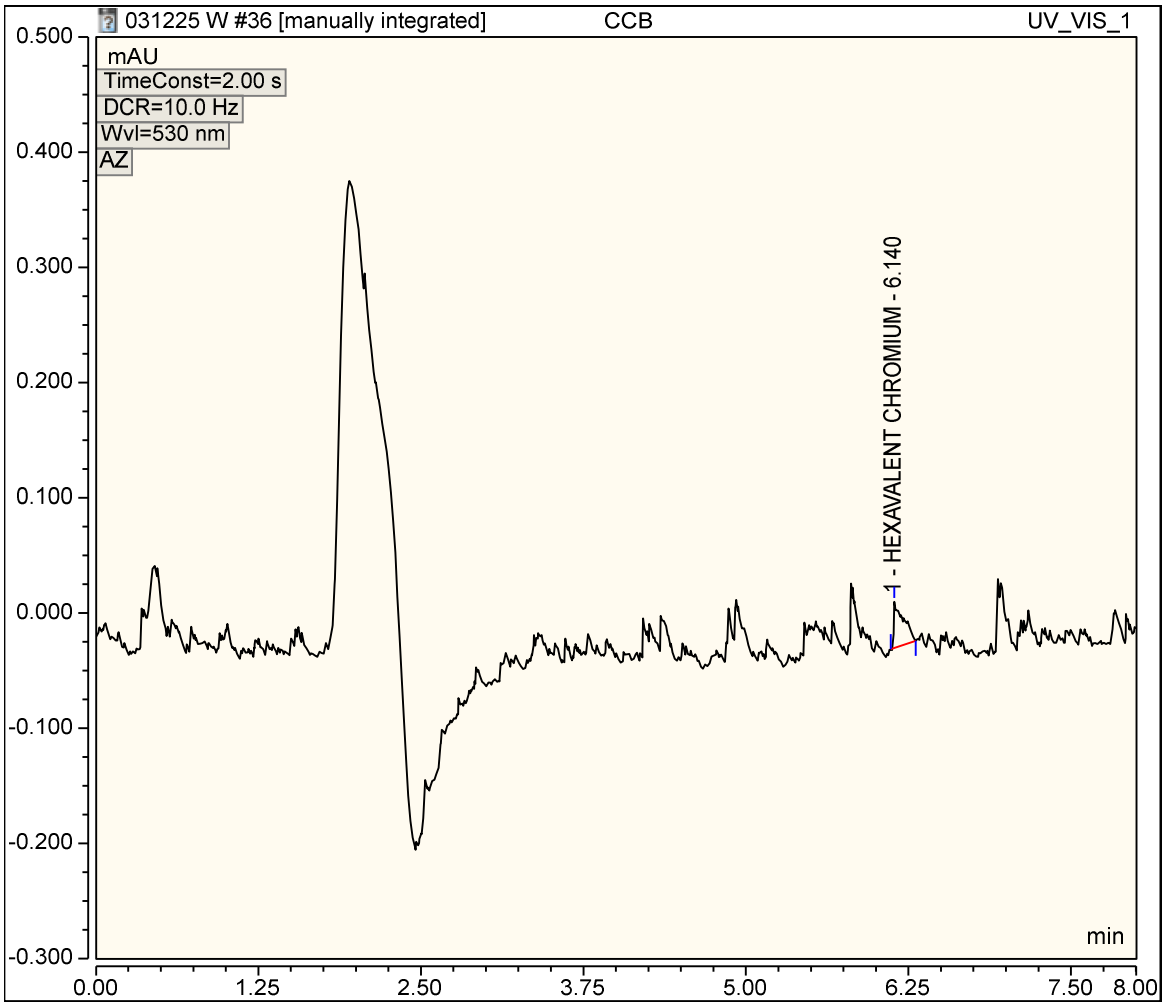
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:41**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:52**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.14	HEXAVALENT CHROMIUM	BMB*	0.003	0.040	n.a.
		TOTAL:		0.00	0.04	0.00

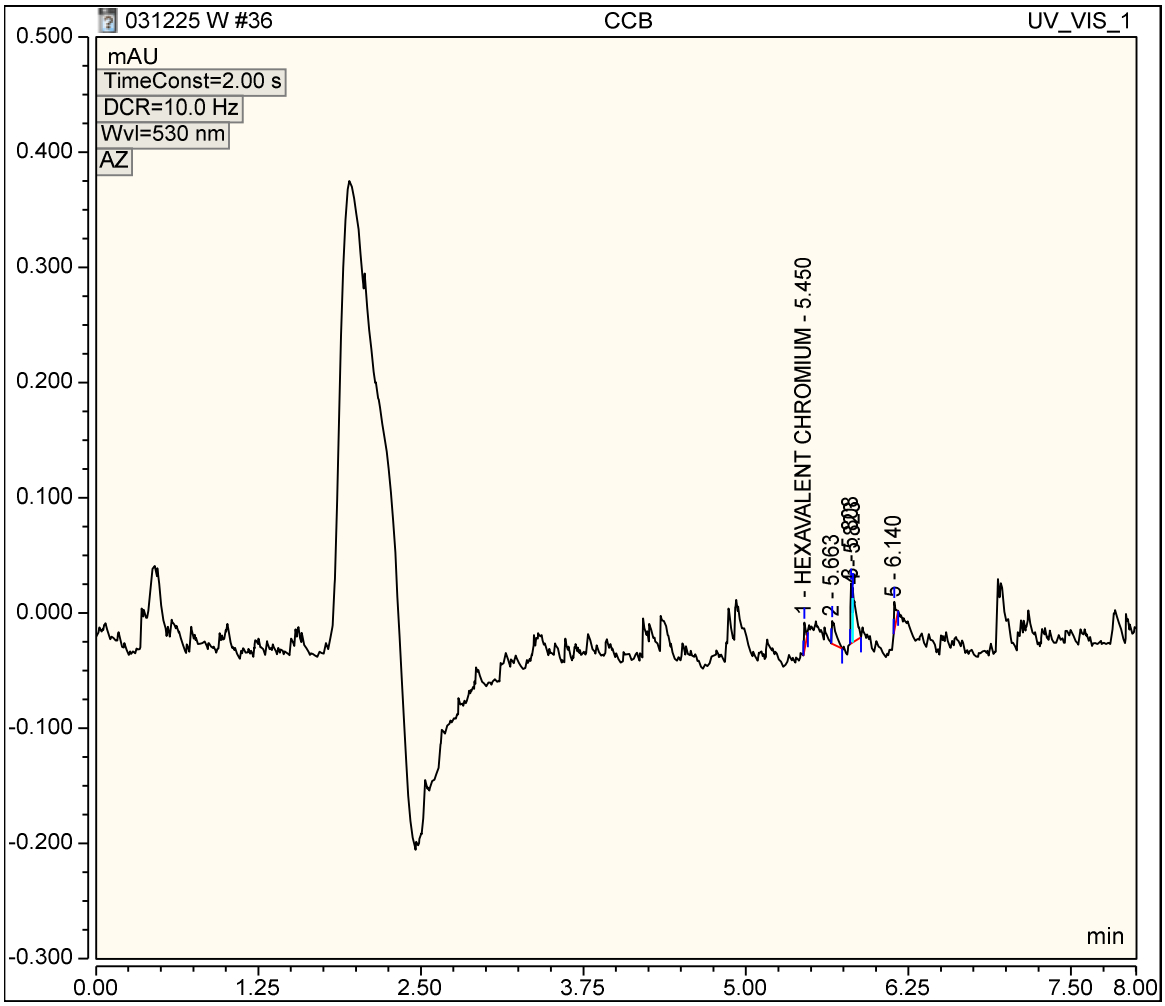


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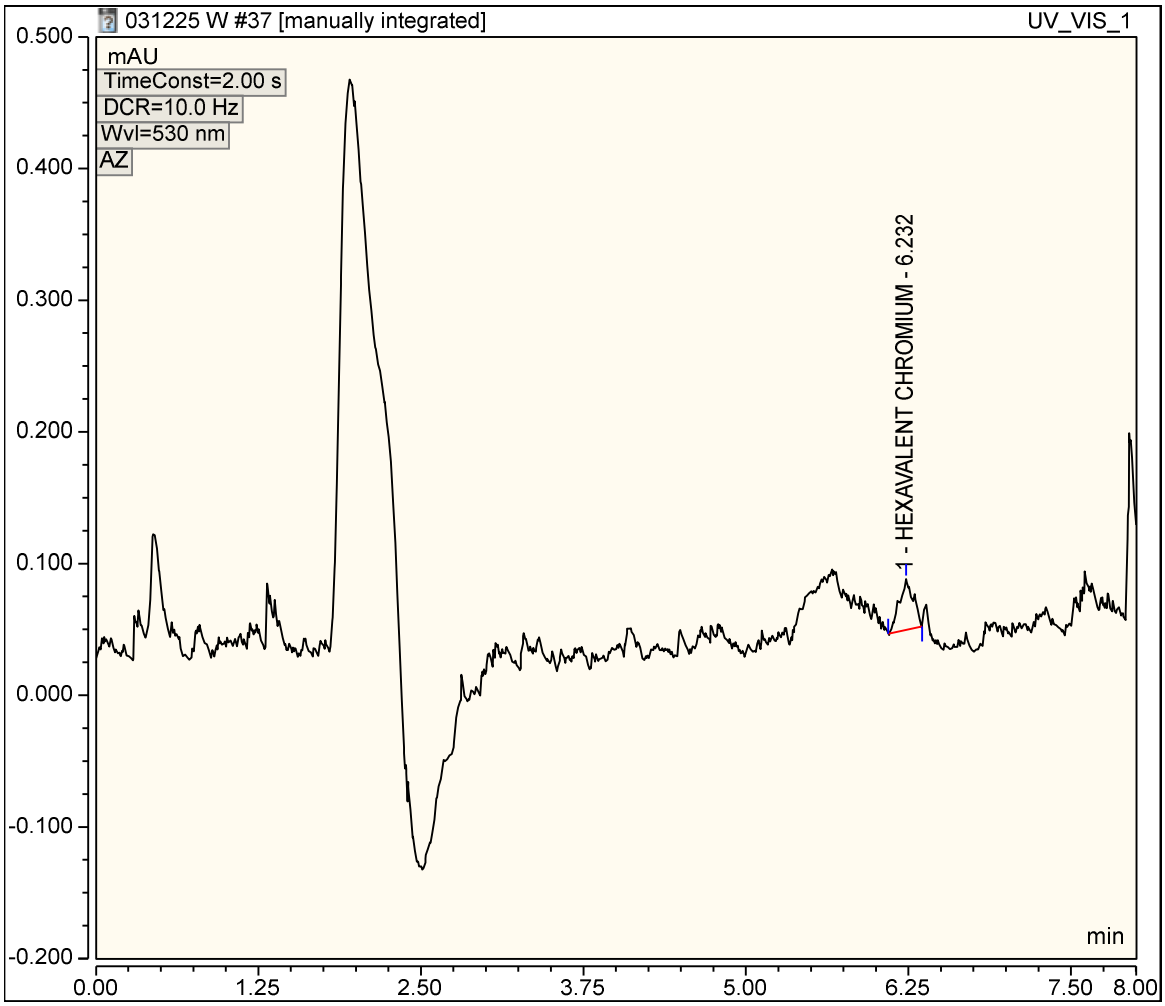
Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:52**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.45	HEXAVALENT CHROMIUM	BMB	0.000	0.024	0.0629
		TOTAL:		0.00	0.02	0.06



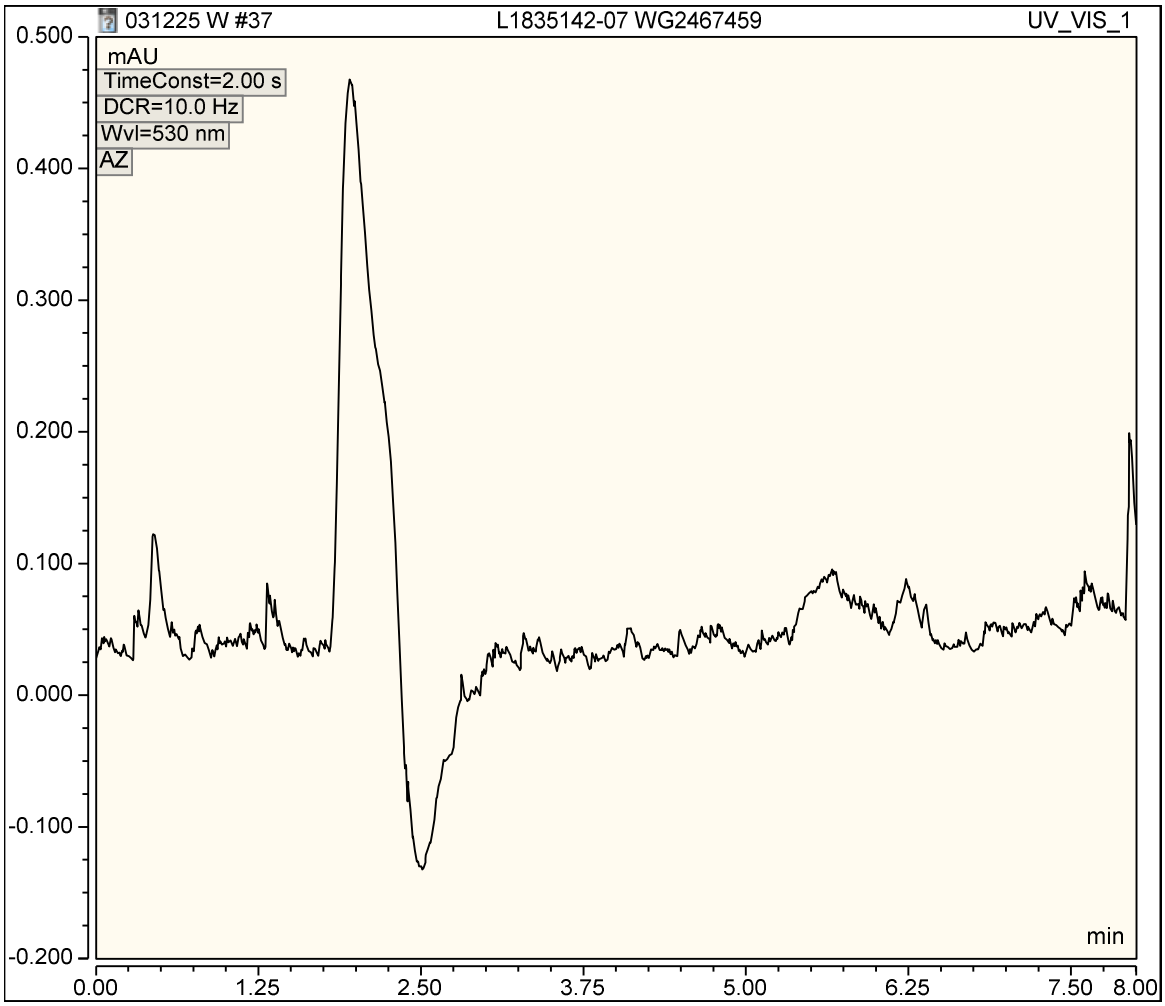
Sample Name:	**L1835142-07 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:03**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	0.005	0.039	n.a.
		TOTAL:		0.00	0.04	0.00



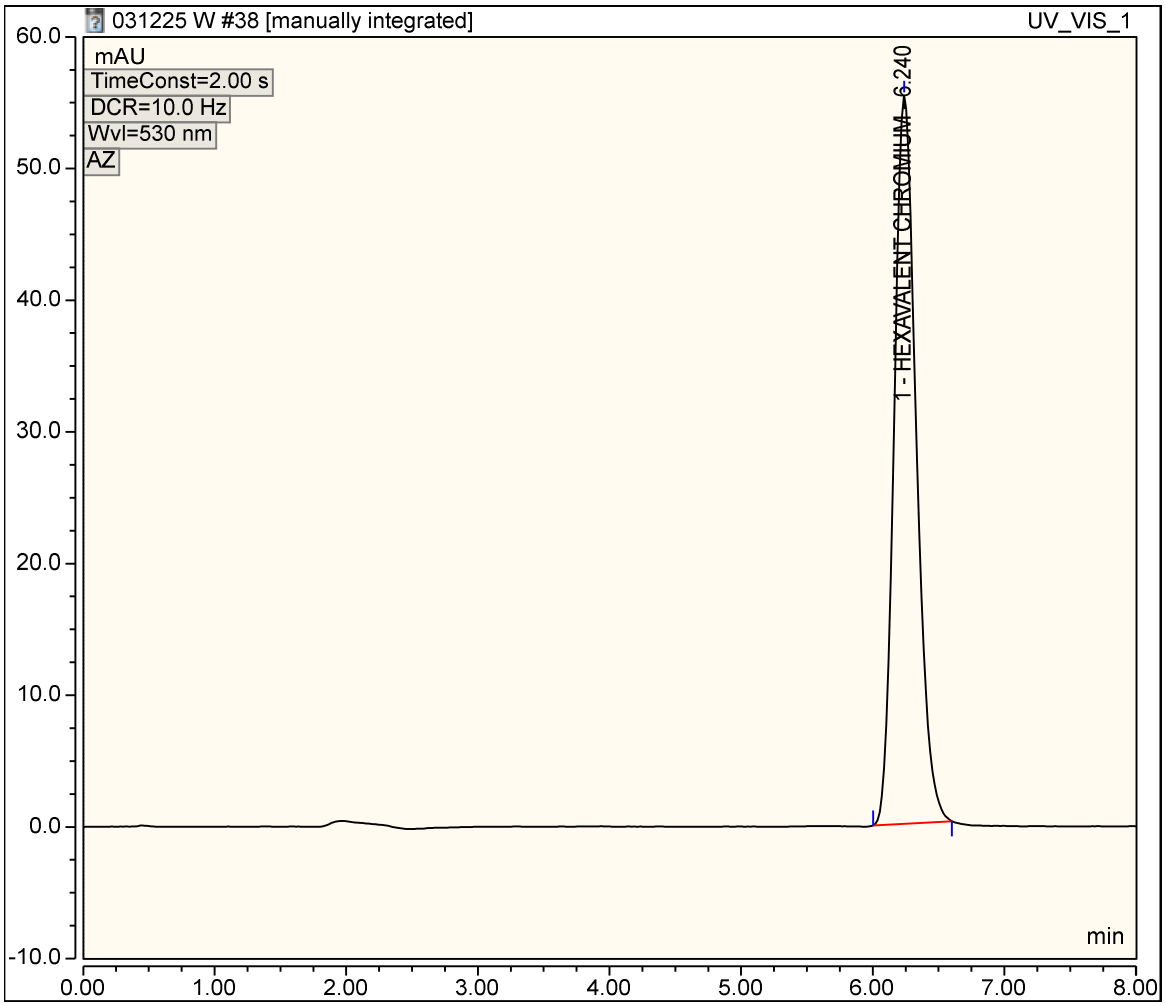
Sample Name:	**L1835142-07 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:03**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



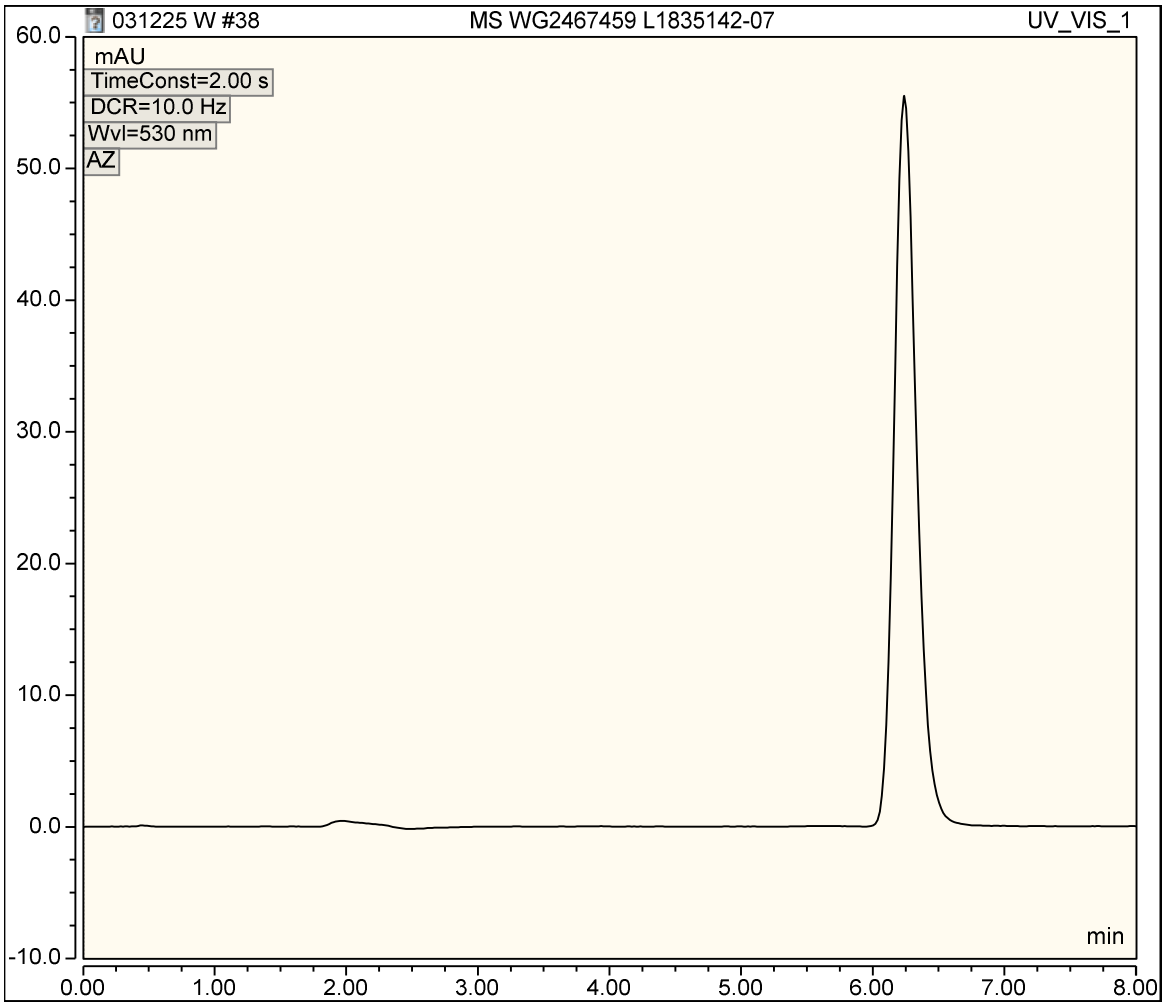
Sample Name:	**MS WG2467459 L1835142-07**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:14**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	HEXAVALENT CHROMIUM	BMB*	10.807	55.275	47.2288
		TOTAL:		10.81	55.28	47.23



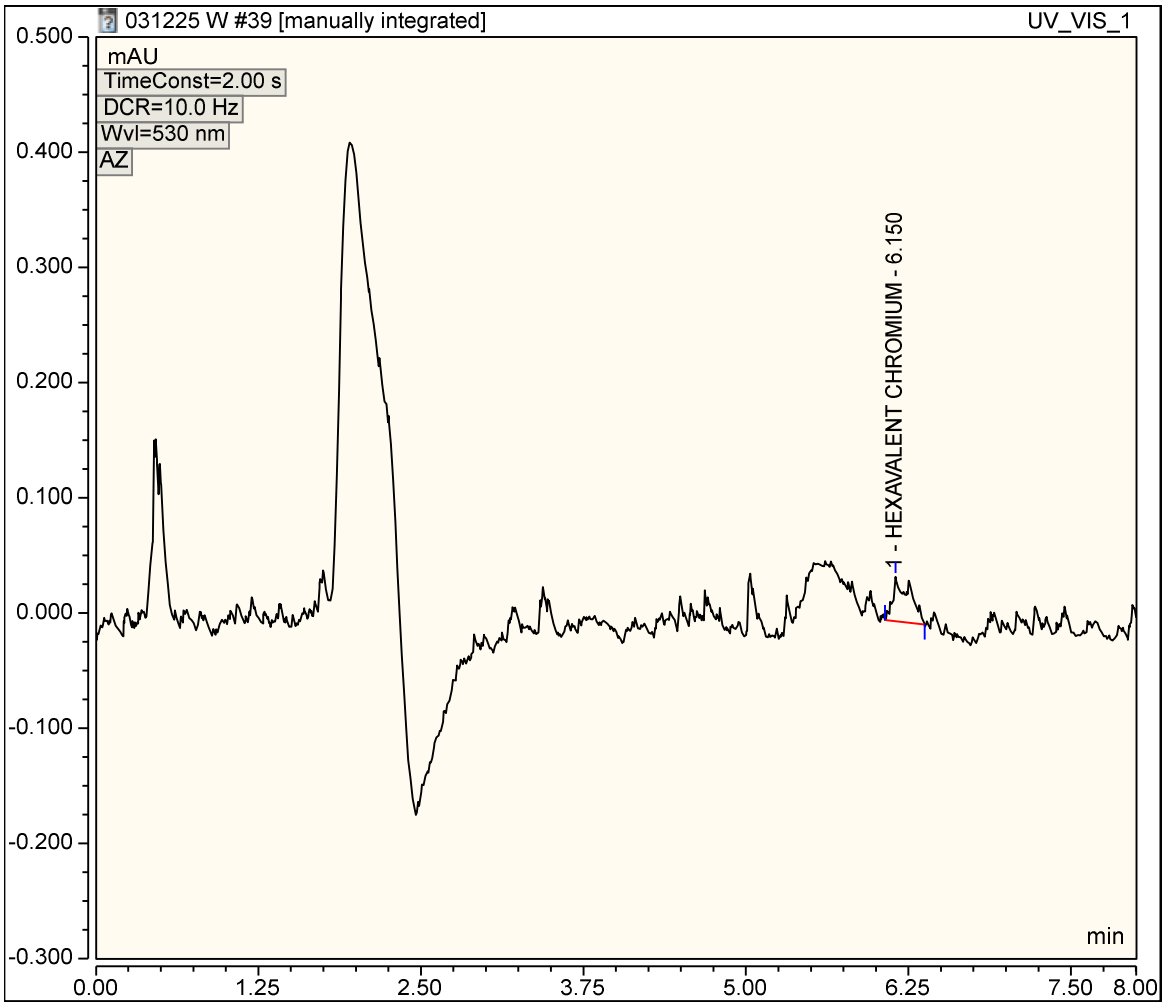
Sample Name:	**MS WG2467459 L1835142-07**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:14**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



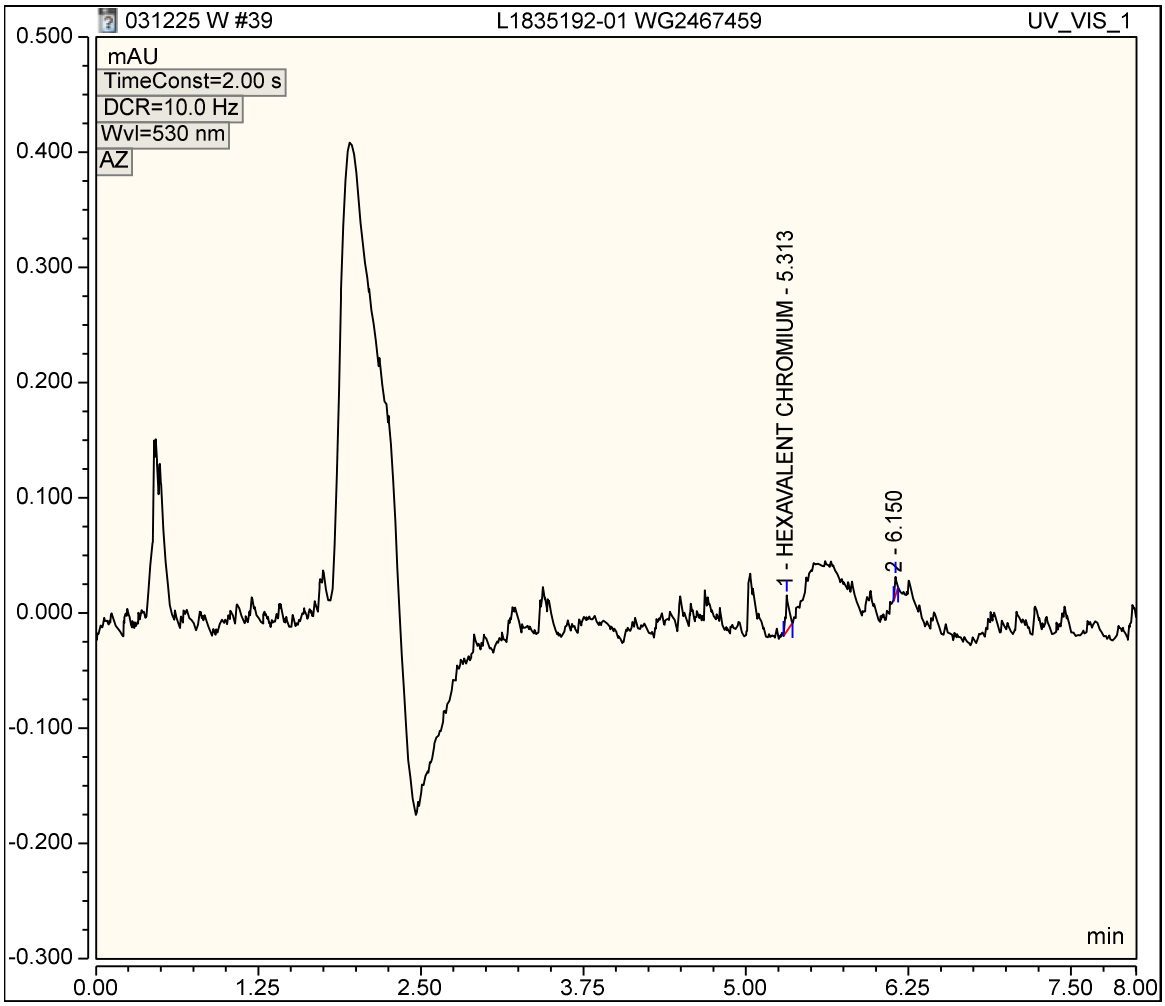
Sample Name:	**L1835192-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:25**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.15	HEXAVALENT CHROMIUM	BMB*	0.006	0.038	n.a.
		TOTAL:		0.01	0.04	0.00



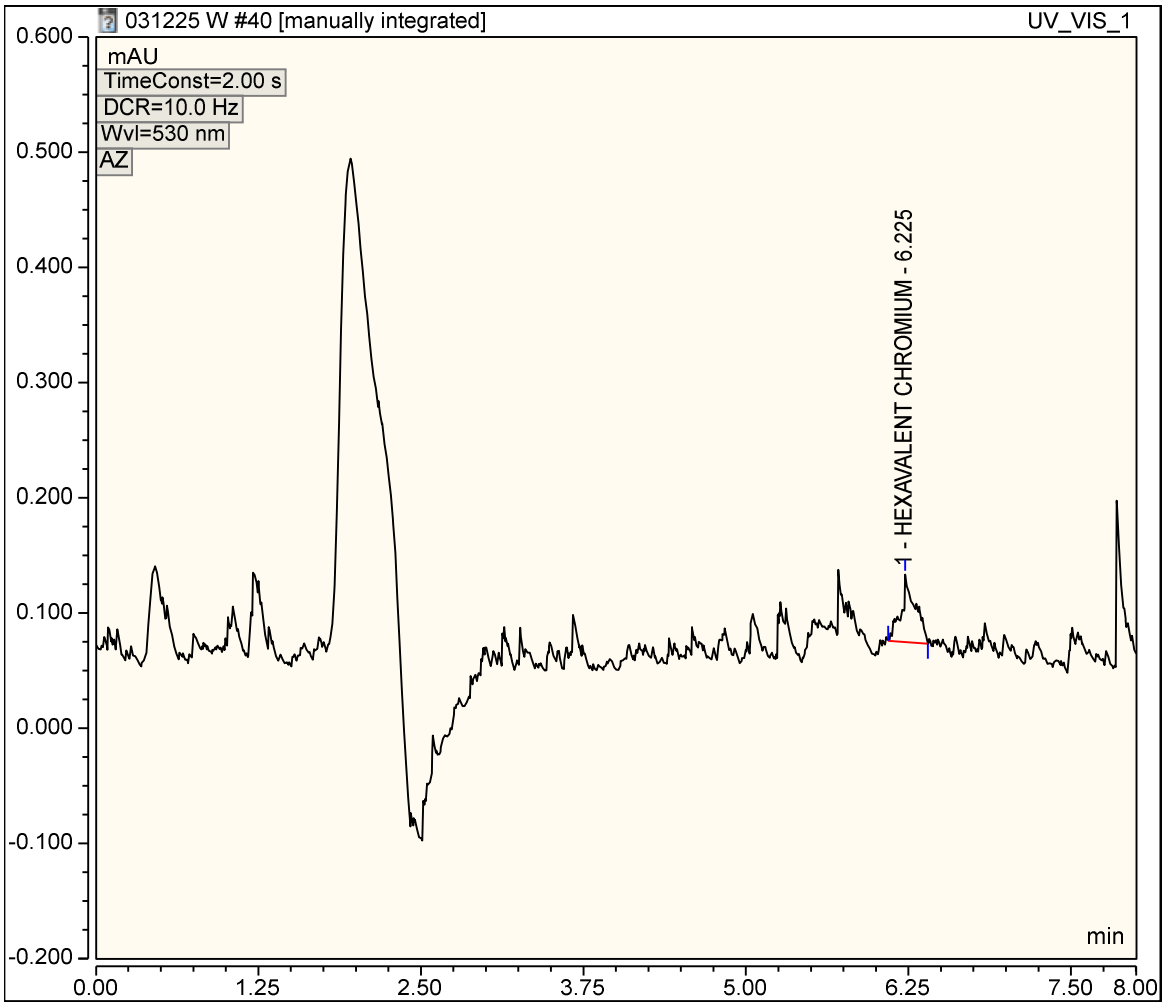
Sample Name:	**L1835192-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:25**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.31	HEXAVALENT CHROMIUM	BMB	0.001	0.031	0.4455
		TOTAL:		0.00	0.03	0.45



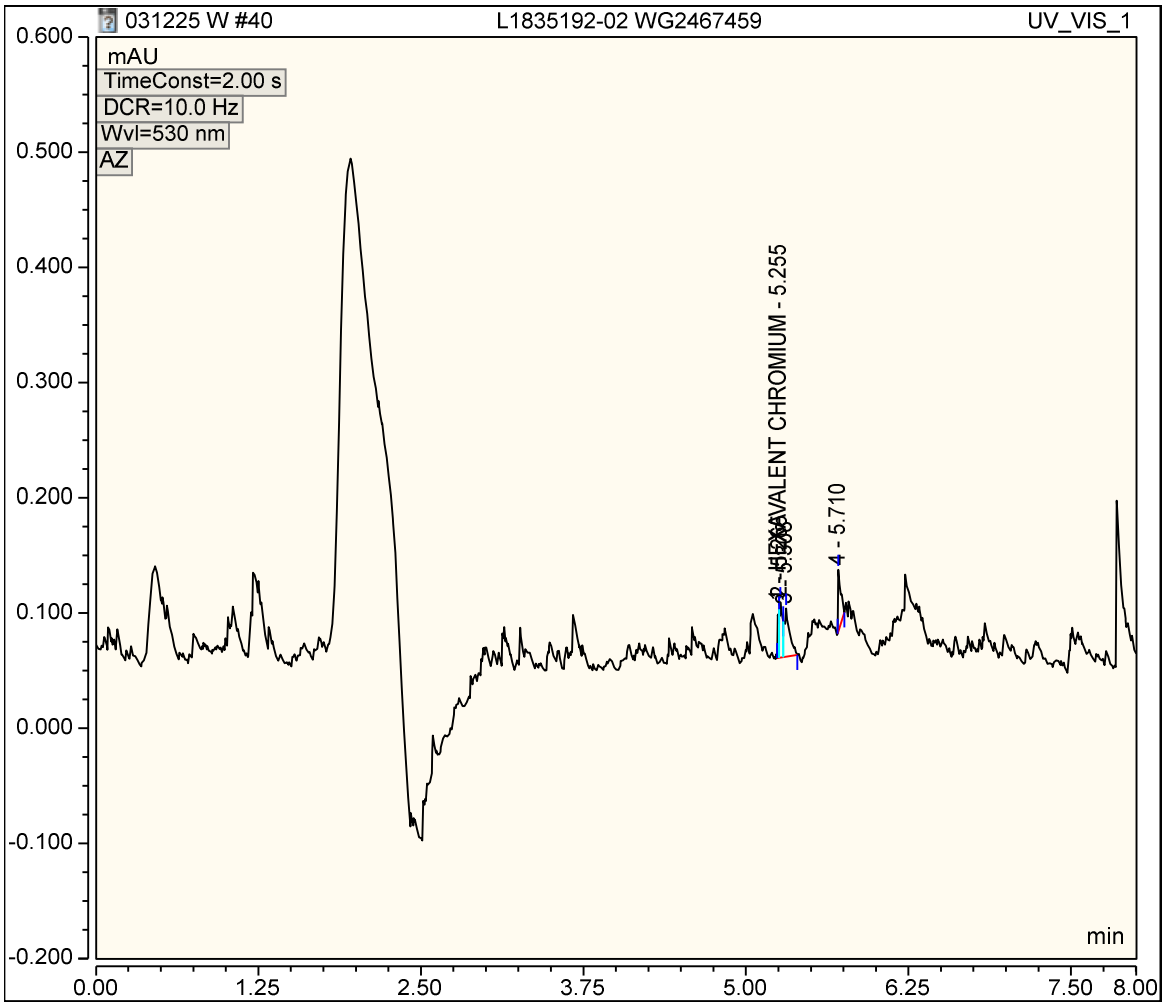
Sample Name:	**L1835192-02 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.22	HEXAVALENT CHROMIUM	BMB*	0.007	0.059	n.a.
		TOTAL:		0.01	0.06	0.00



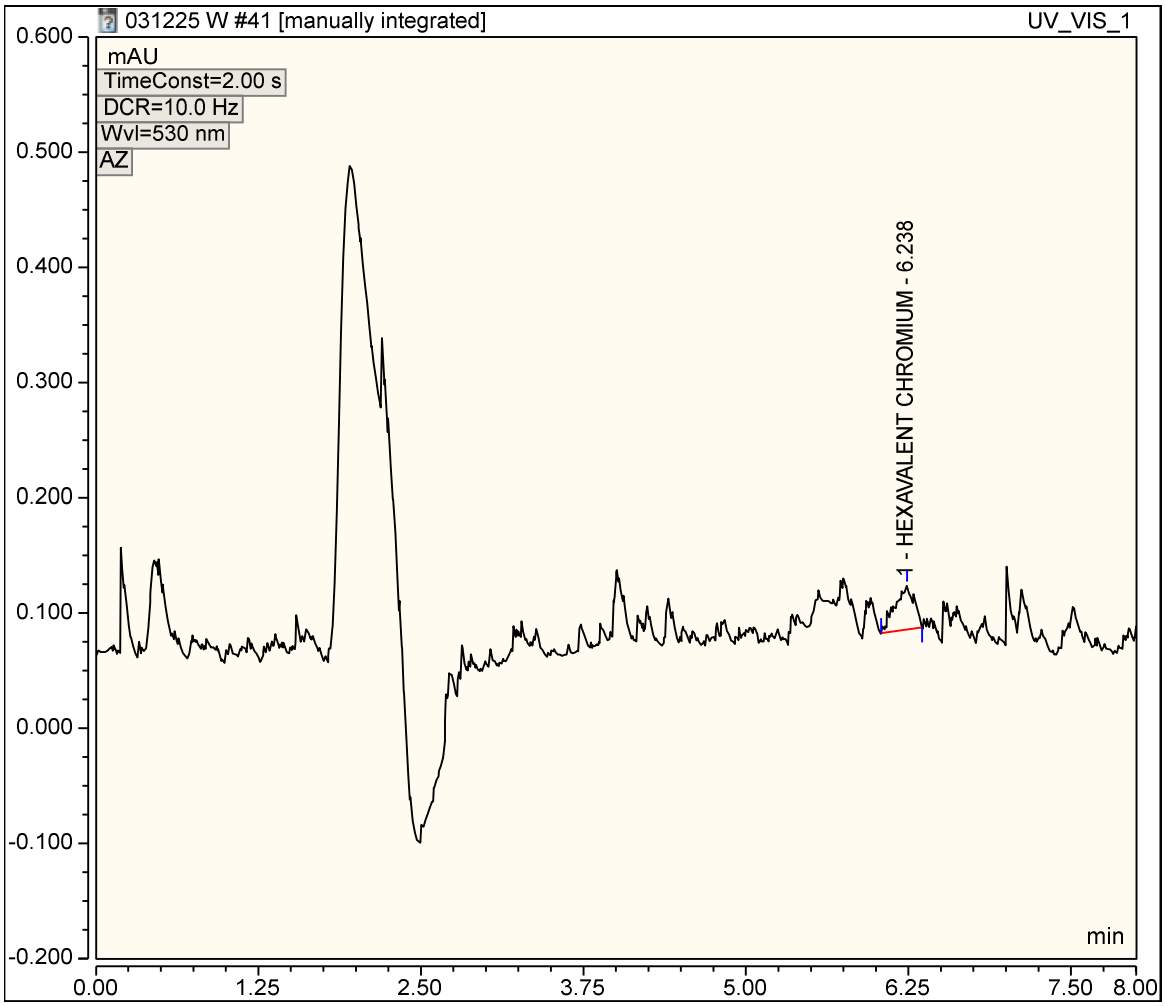
Sample Name:	**L1835192-02 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.25	HEXAVALENT CHROMIUM	BM	0.000	0.042	0.1282
		TOTAL:		0.00	0.04	0.13



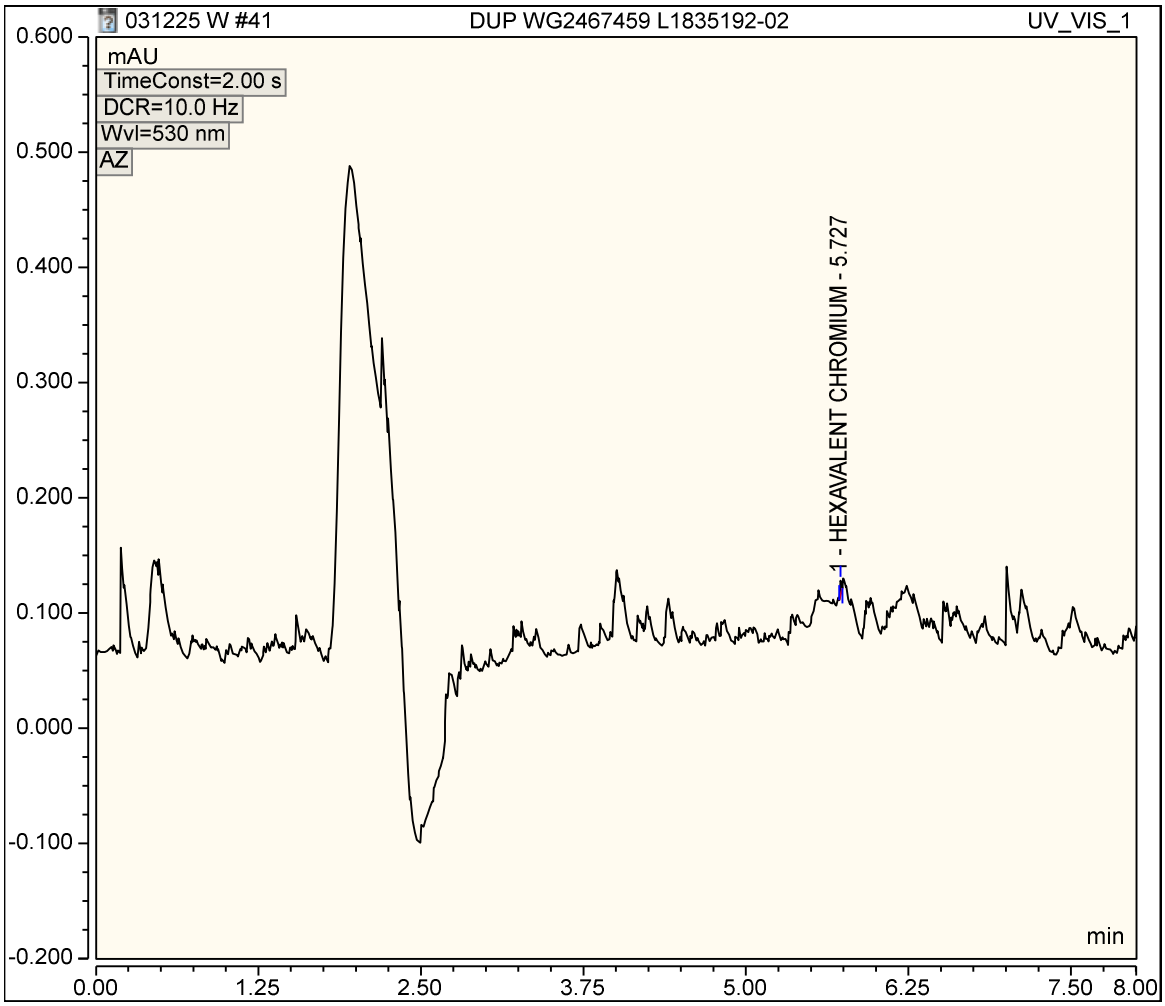
Sample Name:	**DUP WG2467459 L1835192-02**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:47**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	HEXAVALENT CHROMIUM	BMB*	0.006	0.038	n.a.
		TOTAL:		0.01	0.04	0.00



Sample Name:	**DUP WG2467459 L1835192-02**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:47**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.73	HEXAVALENT CHROMIUM	BMB	0.000	0.013	n.a.
		TOTAL:		0.00	0.01	0.00

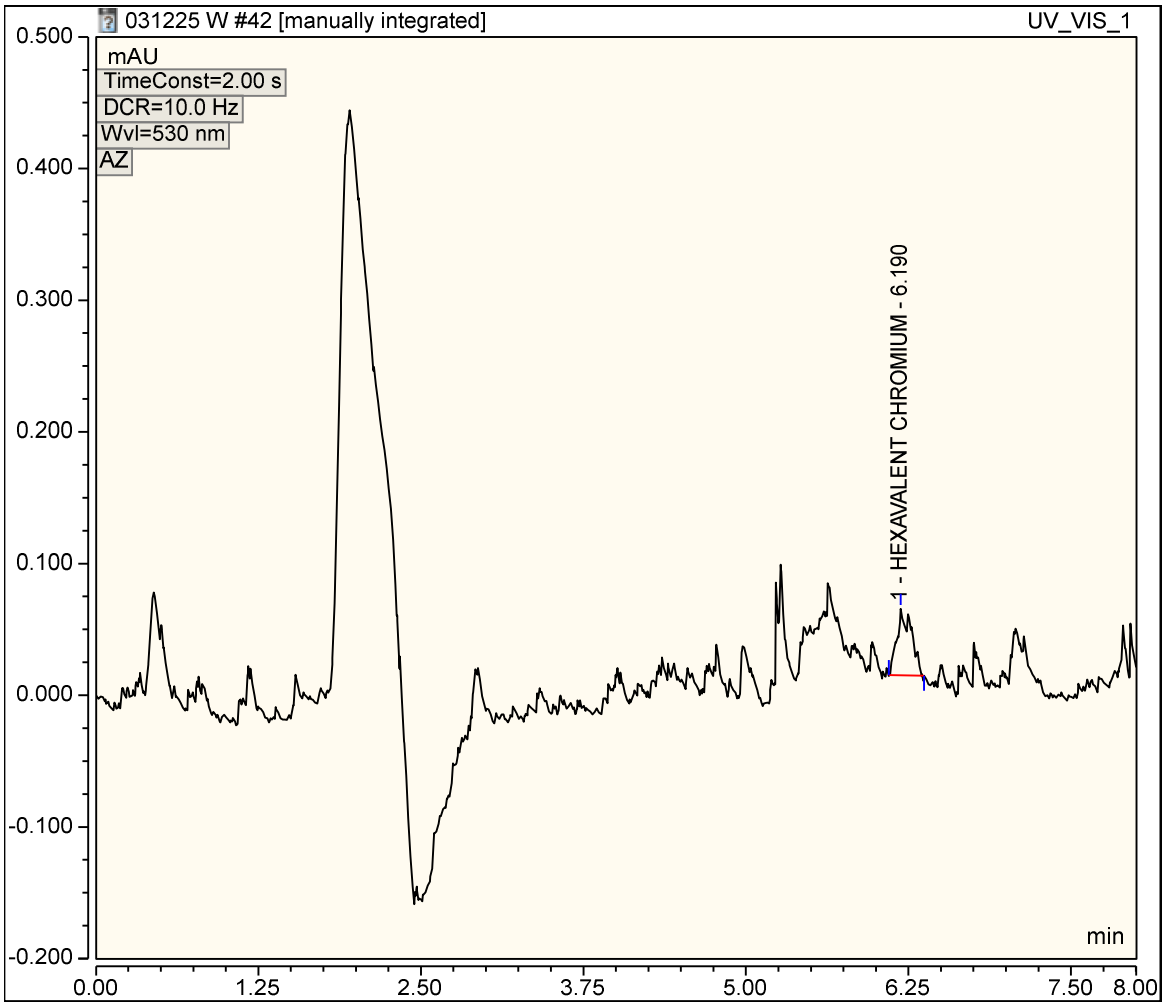


Export for Tree/Integration

PeakNet 6 (r) Dionex 2001
Version 7.3.1.6535

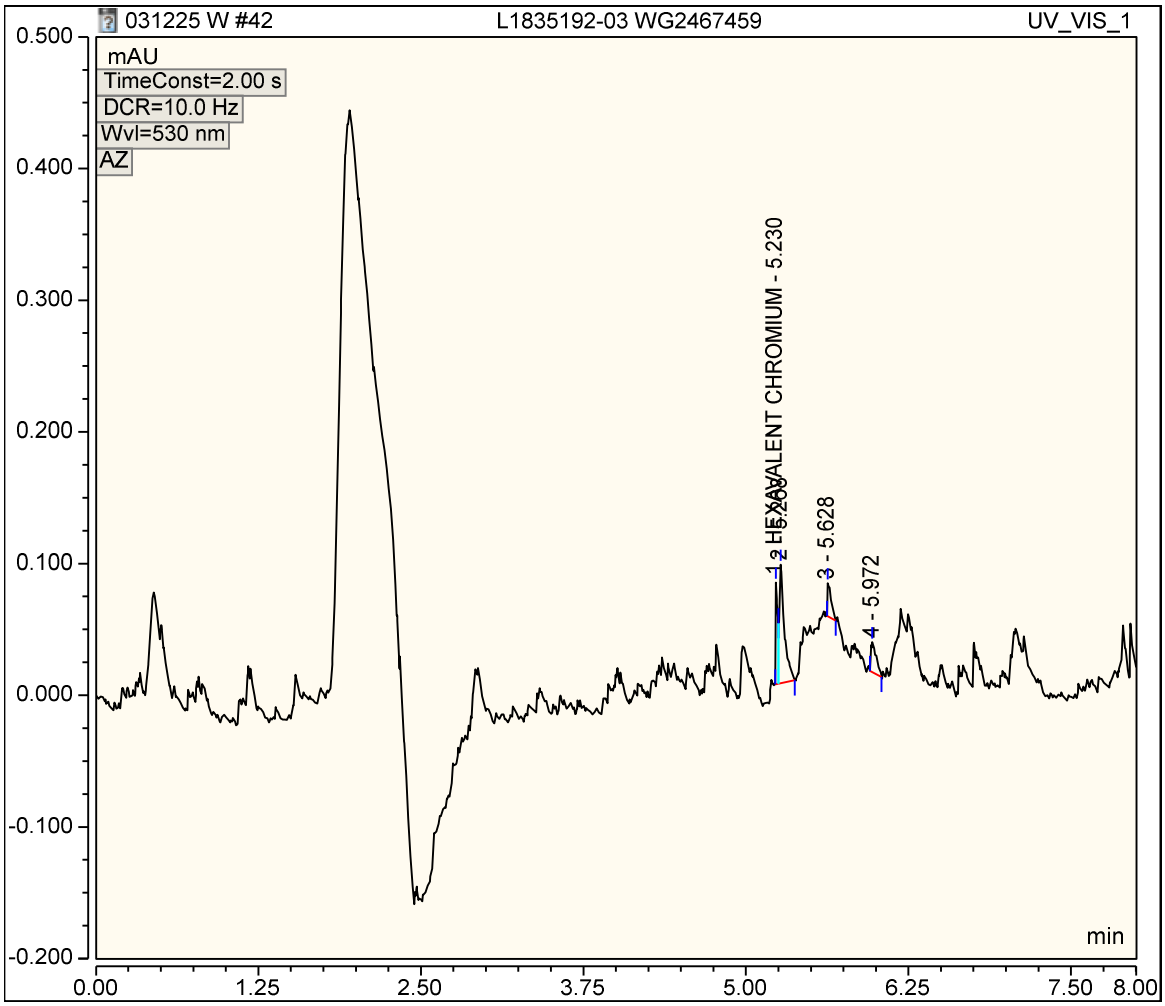
Sample Name:	**L1835192-03 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:58**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.19	HEXAVALENT CHROMIUM	BMB*	0.007	0.050	n.a.
		TOTAL:		0.01	0.05	0.00



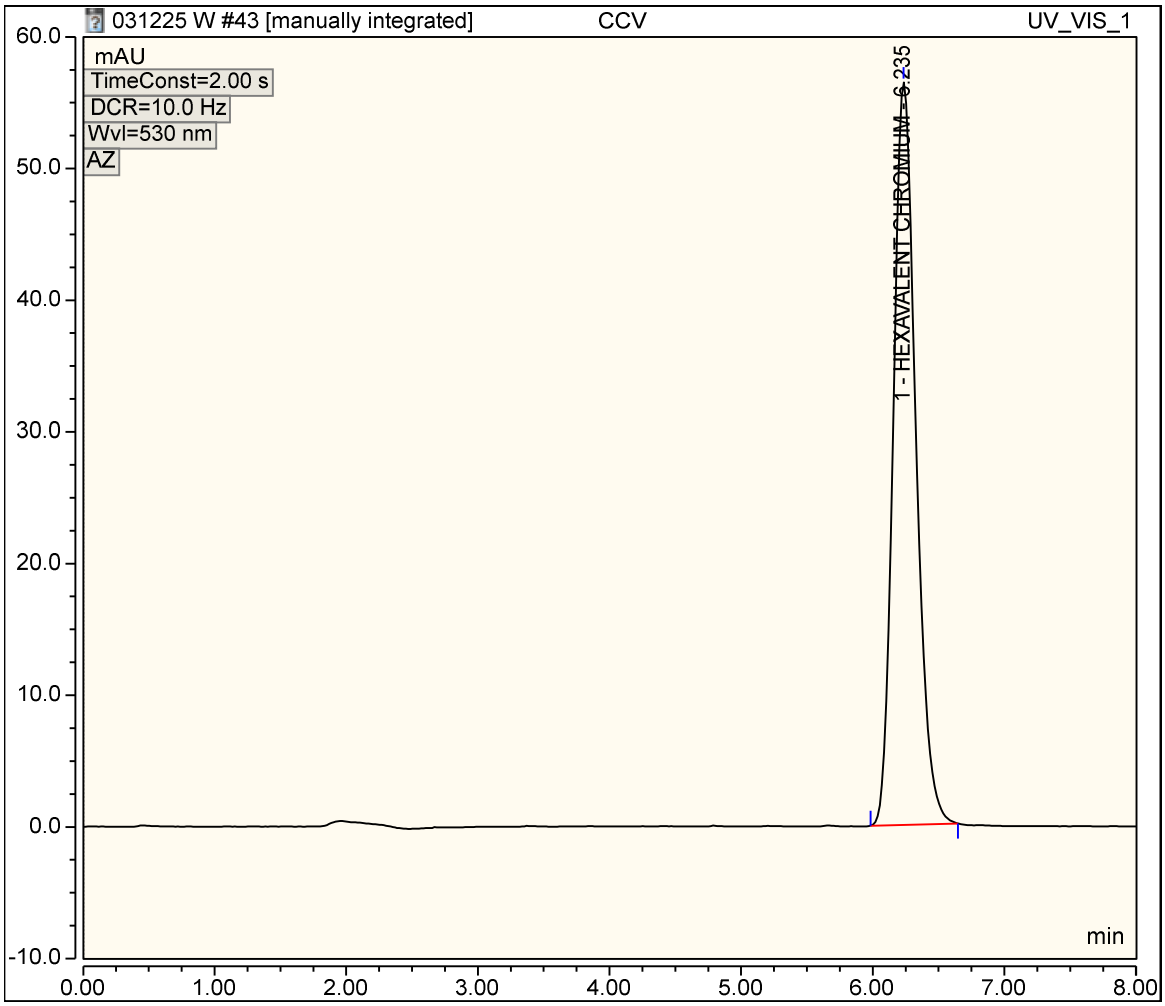
Sample Name:	**L1835192-03 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:58**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.23	HEXAVALENT CHROMIUM	BM	0.001	0.077	0.7451
		TOTAL:		0.00	0.08	0.75



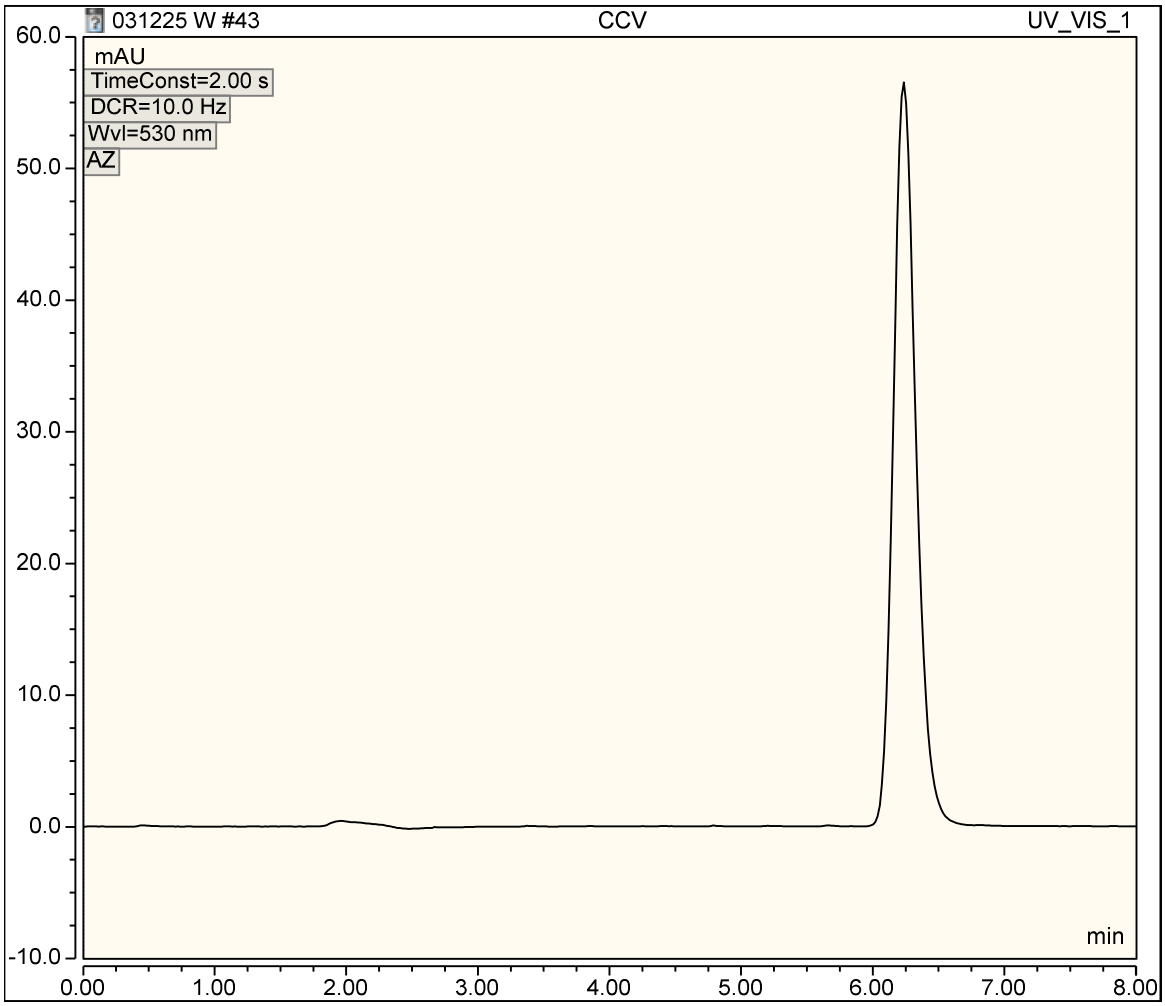
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 05:09**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	11.169	56.395	48.8157
		TOTAL:		11.17	56.39	48.82



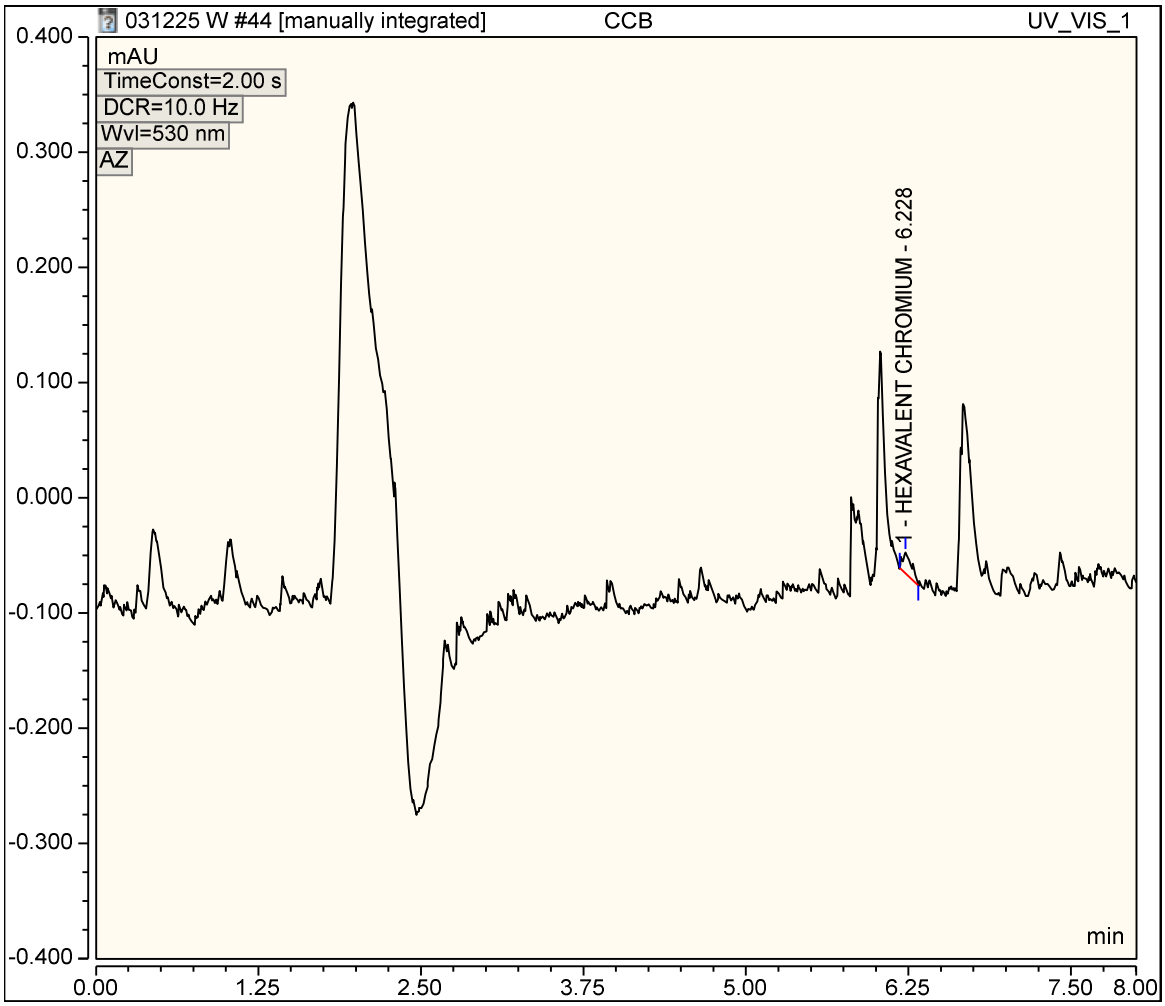
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 05:09**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



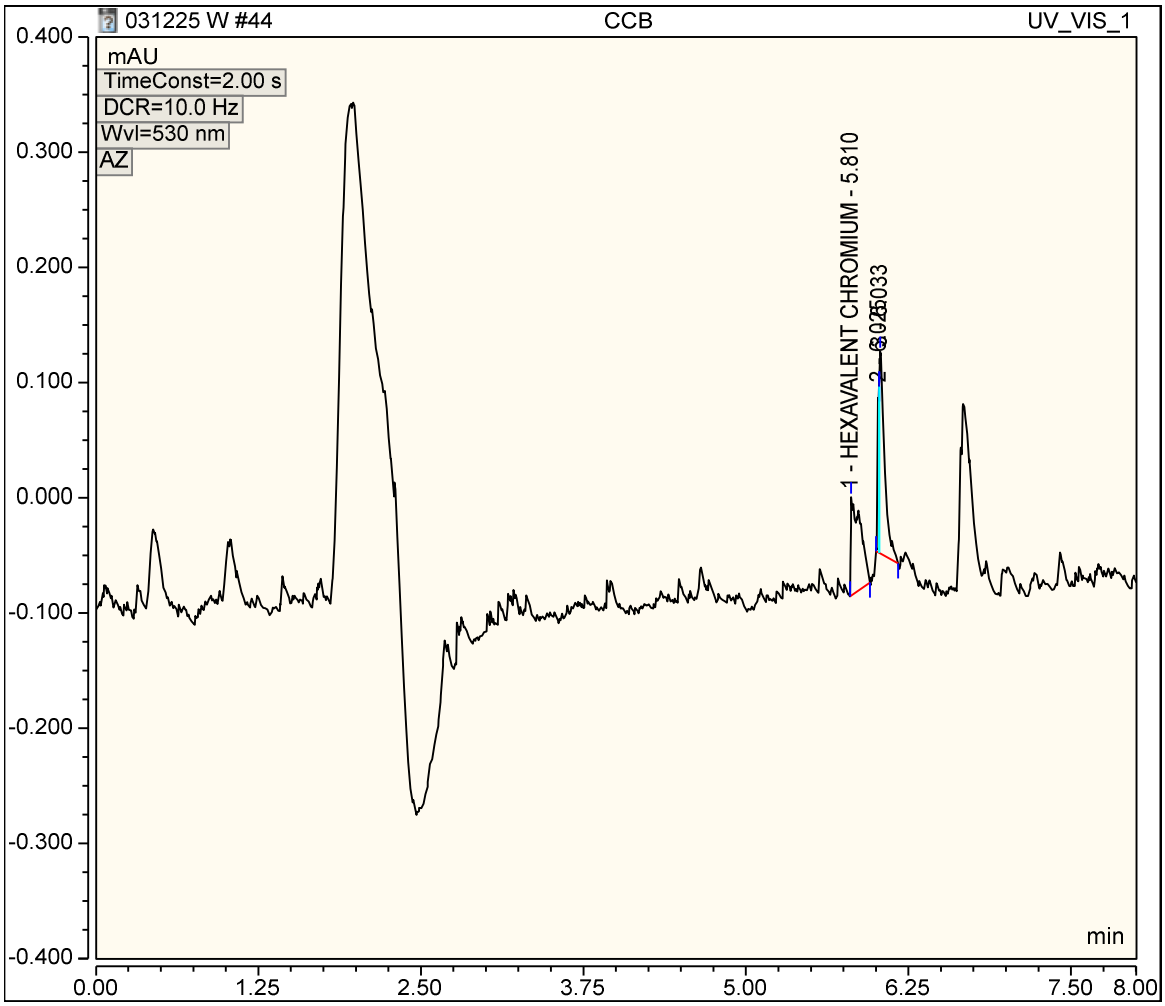
Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 05:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	0.001	0.018	n.a.
		TOTAL:		0.00	0.02	0.00



Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 05:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.81	HEXAVALENT CHROMIUM	BMB	0.007	0.085	4.4220
		TOTAL:		0.01	0.09	4.42



CR6IC Water Metals Prep Benchsheet

Batch: WG2467459

Analyst: VS117 **Analyst 2:** VS117 **Analyst 3:** VS117 **Batch Date/Time:** 03/12/25 14:34-19:47 **Prep End Date/Time:** 03/13/25 00:56 **SOP:** MTJL-0200
Method: 7199/3500Cr C **Syringe Lot#:** 241125 **0.45 PVDF Filter Lot#:** 329076081 **0.2 Nylon Fiilter Lot#:** 337019037 **10mL Pipette Lot#:** 101052037
5mL Pipette Lot#: NA **0.1mL Auto Pipette SN:** 100999742 **1mL Auto Pipette SN:** 101109405 **0.1mL Auto Pipette Tip Lot#:** 24400014
1mL Auto Pipette Tip Lot#: 24240064 **Digestion Tube Lot#:** LV24061004-F-4330-IJ **Filter/Plunger Lot#:** 237430-3293-AR/2206050-3275
IC Cap/Vial Lot#: 3250-18351/LV24071515-4339-4343 **pH Probe SN:** CV1-15153 **pH Meter:** V18914 **Cal Reference WG#:** NA

ICV Standard: 25C13898 Amt. Used: 6 mL Exp. Date:03/13/25 **LCS/D Standard:** 25C13893 Amt. Used: 6 mL Exp. Date:03/13/25
MS/D Standard: 25C13893 Amt. Used: 0.50 mL Exp. Date:03/13/25 **ALT Standard:** 25C13894 Amt. Used: 6 mL Exp. Date:03/13/25
RLV Standard: 25C13896 Amt. Used: 6 mL Exp. Date:03/13/25 **Calibration Standard:** 25C13902 Amt. Used: 6 mL Exp. Date:03/13/25
Eluent: 25C12696 Exp. Date:04/12/25 **Color Reagent:** 25C12695 Exp. Date:03/15/25 **Ammonium Hydroxide:** 24L11810 Exp. Date:07/08/26
Buffer: 25B07015 Exp. Date:08/07/25

Sample Number	Prep Flags	Matrix	Initial Sample Vol. (mL)	Method	Dilution Factor	Initial pH	Adjt pH Time/Date	Final Adjusted pH	Review Analyst	Review Date
BLANK			10		1	9.45	NA	NA	VSS117	03/13/25 00:57:36
LCS			10		1	9.53	NA	NA	VSS117	03/13/25 00:57:36
MS(L1834905-01)			10		1	NA	NA	NA	VSS117	03/13/25 00:57:36
MS(L1835142-07)			10		1	NA	NA	NA	VSS117	03/13/25 00:57:36
MSD(L1834905-01)			10		1	NA	NA	NA	VSS117	03/13/25 00:57:36
DUP(L1834999-01)			10		1	NA	NA	NA	VSS117	03/13/25 00:57:36
DUP(L1835192-02)			10		1	NA	NA	NA	VSS117	03/13/25 00:57:36
1. L1834905-01	T2	WW	10	3500Cr C-2011	1	9.27	031225 1417	9.45	VSS117	03/13/25 00:57:36
2. L1834920-01	T2	WW	10	3500Cr C-2011	1	9.28	031225 1417	9.69	VSS117	03/13/25 00:57:36
3. L1834924-01	T2	WW	10	3500Cr C-2011	1	9.10	031225 1417	9.45	VSS117	03/13/25 00:57:36
4. L1834936-01		WW	10	3500Cr C-2011	1	9.40	031225 1417	NA	VSS117	03/13/25 00:57:36
5. L1834940-01		WW	10	3500Cr C-2011	1	9.53	031225 1417	NA	VSS117	03/13/25 00:57:36
6. L1834951-01		WW	10	3500Cr C-2011	1	9.45	031225 1417	NA	VSS117	03/13/25 00:57:36
7. L1834957-01		WW	10	3500Cr C-2011	1	9.54	031225 1417	NA	VSS117	03/13/25 00:57:36
8. L1834992-01		WW	10	3500Cr C-2011	1	9.50	031225 1417	NA	VSS117	03/13/25 00:57:36
9. L1834999-01		WW	10	3500Cr C-2011	1	9.31	031225 1417	NA	VSS117	03/13/25 00:57:36
10. L1835142-01		WW	10	3500Cr C-2011	1	9.58	031225 1710	NA	VSS117	03/13/25 00:57:36
11. L1835142-02		WW	10	3500Cr C-2011	1	9.71	031225 1710	NA	VSS117	03/13/25 00:57:36
12. L1835142-03		WW	10	3500Cr C-2011	1	9.74	031225 1710	NA	VSS117	03/13/25 00:57:36
13. L1835142-04		WW	10	3500Cr C-2011	1	9.85	031225 1710	NA	VSS117	03/13/25 00:57:36
14. L1835142-05		WW	10	3500Cr C-2011	1	9.84	031225 1710	NA	VSS117	03/13/25 00:57:36
15. L1835142-06		WW	10	3500Cr C-2011	1	9.83	031225 1710	NA	VSS117	03/13/25 00:57:36
16. L1835142-07		WW	10	3500Cr C-2011	1	9.80	031225 1710	NA	VSS117	03/13/25 00:57:36
17. L1835192-01		WW	10	3500Cr C-2011	1	9.55	031225 2038	NA	VSS117	03/13/25 00:57:36
18. L1835192-02		WW	10	3500Cr C-2011	1	9.61	031225 2038	NA	VSS117	03/13/25 00:57:36
19. L1835192-03		WW	10	3500Cr C-2011	1	9.65	031225 2038	NA	VSS117	03/13/25 00:57:36

Comments:
L1835142-02 Time Added: 03/12/25 17:07:46
L1835142-06 Time Added: 03/12/25 17:07:46
L1835142-05 Time Added: 03/12/25 17:07:46
L1835142-01 Time Added: 03/12/25 17:07:46
L1835142-07 Time Added: 03/12/25 17:07:46
L1835142-03 Time Added: 03/12/25 17:07:46
L1835142-04 Time Added: 03/12/25 17:07:46
L1835192-03 Time Added: 03/12/25 19:47:34
L1835192-02 Time Added: 03/12/25 19:47:34
L1835192-01 Time Added: 03/12/25 19:47:34

Reviewed By: VSS117 on 03/13/25 00:57:36

245.1 Mercury

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-S-SW

Lab Sample ID:	L1835142-01	**SDG:**	L1835142
Client Sample ID:	MONTROSE-LAKE-S-SW	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250317161940	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 16:19
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE-LAKE-S-SW-FILTERED

Lab Sample ID:	L1835142-02	**SDG:**	L1835142
Client Sample ID:	MONTROSE-LAKE-S-SW-FILTERED	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250314193939	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:51
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:39
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DEEPWATER-S-SW

Lab Sample ID:	L1835142-03	**SDG:**	L1835142
Client Sample ID:	DEEPWATER-S-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	20250317162208	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 16:22
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DEEPWATER-S-SW-FILTERED

Lab Sample ID:	L1835142-04	**SDG:**	L1835142
Client Sample ID:	DEEPWATER-S-SW-FILTERED	**Collected Date/Time:**	03/11/25 16:10
Lab File ID:	20250314194221	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:51
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:42
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835142-05	**SDG:**	L1835142
Client Sample ID:	DUP3-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	20250317162435	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 16:24
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835142-06	**SDG:**	L1835142
Client Sample ID:	TRUMAN-S-SW	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	20250317162703	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 16:27
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
TRUMAN-S-SW-FILTERED

Lab Sample ID:	L1835142-07	**SDG:**	L1835142
Client Sample ID:	TRUMAN-S-SW-FILTERED	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	20250314192904	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:51
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:29
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186741-1	**SDG:**	L1835142
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250314192340	**Received Date/Time:**	
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:48
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:23
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):		**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-1	**SDG:**	L1835142
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250317151601	**Received Date/Time:**	
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 22:59
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 15:16
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):		**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186741-2	**SDG:**	L1835142
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250314192621	**Received Date/Time:**	
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:48
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:26
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):		**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	3.00		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-8	**SDG:**	L1835142
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250317165201	**Received Date/Time:**	
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 22:59
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 16:52
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):		**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	2.98		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186741-4	**SDG:**	L1835142
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	20250314193415	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:51
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:34
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	2.84		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-4	**SDG:**	L1835142
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 10:50
Lab File ID:	20250317154335	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 15:43
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	2.86		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-6	**SDG:**	L1835142
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 09:45
Lab File ID:	20250317155134	**Received Date/Time:**	03/12/25 09:10
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 15:51
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	2.90		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186741-5	**SDG:**	L1835142
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	20250314193657	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:51
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:36
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	2.99		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-5	**SDG:**	L1835142
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 10:50
Lab File ID:	20250317154615	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 15:46
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	3.01		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-7	**SDG:**	L1835142
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 09:45
Lab File ID:	20250317155413	**Received Date/Time:**	03/12/25 09:10
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 15:54
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	2.97		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186741-3	**SDG:**	L1835142
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	20250314193146	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:51
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:31
Dilution Factor:	5	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	U		0.650	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-3	**SDG:**	L1835142
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 10:50
Lab File ID:	20250317154108	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 15:41
Dilution Factor:	5	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	U		0.650	1.00

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W
Concentration Units:	mg/L		

	ICV				**ICVLL**				**CCV**			
Sample ID:	CVAA90314251128-3				CVAA90314251139-3				CVAA90314251915			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.005219315	104	2.250000	0.0002	0.0001602401	80.10	3.500000	0.0050	0.004805093	96.10	1.790000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W
Concentration Units:	mg/L		

CCV

Sample ID: CVAA90314251947

Analyte	True	Found	%R	%RSD
MERCURY	0.0050	0.004802564	96.10	1.580000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W
Concentration Units:	mg/L		

	ICV				**ICVLL**				**CCVLL**			
Sample ID:	CVAA90317251200-3				CVAA90317251211-3				CVAA90317251349-3			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.004993726	99.90	2.540000	0.0002	0.0001817068	90.90	0.826000	0.0002	0.0001680339	84	8.870000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W
Concentration Units:	mg/L		

		CCV				**CCV**				**CCVLL**			
Sample ID:		CVAA90317251447-2				CVAA90317251518-2				CVAA90317251523-2			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.004632348	92.60	3.040000	0.0050	0.00452595	90.50	2.870000	0.0002	0.0001573009	78.70	7.410000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W
Concentration Units:	mg/L		

		CCVLL				**CCV**				**CCV**			
Sample ID:		CVAA90317251532-2				CVAA90317251602				CVAA90317251631			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0002	0.0001550408	77.50	12.400000	0.0050	0.004920436	98.40	2.110000	0.0050	0.004927531	98.60	3.320000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W
Concentration Units:	mg/L		

		CCV				**CCVLL**		
Sample ID:		CVAA90317251705				CVAA90317251710		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.004942518	98.90	6.140000	0.0002	0.0001696656	84.80	8.240000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCVLL Limits: 70 - 130 CCV Limits: 90 - 110

SDG:	L1835142	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W

	Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**
	File ID:	20250314113113-3		20250314191823		20250314195023		20250314192340	
Analyte		mg/L		mg/L		mg/L		mg/l	
MERCURY		-0.00003376352	U	-0.00002052937	U	0.00001462153	U	U	

SDG:	L1835142	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250317120327-3		20250317145023-2		20250317151601		20250317152106-2	
Analyte	mg/L		mg/L		mg/l		mg/L	
MERCURY	0.00002651387	U	0.00004061941	U	U		0.00003170863	U

SDG:	L1835142	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250317160449		20250317163434		20250317170751	
Analyte	mg/L		mg/L		mg/L	
MERCURY	0.00009764157	U	0.0000590494	U	0.000111194	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835142-02,04,07

SAMPLE NO.:
R4186741-4
R4186741-5

MS Sample / File ID:	R4186741-4 / 20250314193415	**SDG:**	L1835142
MSD Sample / File ID:	R4186741-5 / 20250314193657	**Analytical Batch:**	WG2467784
OS Sample / File ID:	L1835142-07 / 20250314192904	**Matrix:**	WW
Instrument ID:	CVAA9		
Analytical Method:	245.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Mercury,Dissolved	3.00	U	2.84	2.99	94.7	99.6	1	70.0 - 130	5.02	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835142-01,03,05,06

SAMPLE NO.:
R4187386-4
R4187386-5

MS Sample / File ID:	R4187386-4 / 20250317154335	**SDG:**	L1835142
MSD Sample / File ID:	R4187386-5 / 20250317154615	**Analytical Batch:**	WG2467783
OS Sample / File ID:	L1835052-03 / 20250317153829	**Matrix:**	WW
Instrument ID:	CVAA9		
Analytical Method:	245.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Mercury	3.00	U	2.86	3.01	95.2	100	1	70.0 - 130	5.30	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835142-01,03,05,06

SAMPLE NO.:
R4187386-6
R4187386-7

MS Sample / File ID:	R4187386-6 / 20250317155134	**SDG:**	L1835142
MSD Sample / File ID:	R4187386-7 / 20250317155413	**Analytical Batch:**	WG2467783
OS Sample / File ID:	L1835053-06 / 20250317154854	**Matrix:**	WW
Instrument ID:	CVAA9		
Analytical Method:	245.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Mercury	3.00	U	2.90	2.97	96.8	99.0	1	70.0 - 130	2.28	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835142-02,04,07

SAMPLE NO.:
R4186741-2

LCS Sample / File ID:	R4186741-2 / 20250314192621	**SDG:**	L1835142
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467784
Instrument ID:	CVAA9	**Dilution Factor:**	1
Analytical Method:	245.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Mercury,Dissolved	3.00	3.00		100		85.0 - 115		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835142-01,03,05,06

SAMPLE NO.:
R4187386-8

LCS Sample / File ID:	R4187386-8 / 20250317165201	**SDG:**	L1835142
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467783
Instrument ID:	CVAA9	**Dilution Factor:**	1
Analytical Method:	245.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Mercury	3.00	2.98		99.2		85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4186741-3 / 20250314193146	**SDG:**	L1835142
OS Sample / File ID:	L1835142-07 / 20250314192904	**Analytical Batch:**	WG2467784
Lab File ID:	20250314193146	**Dilution Factor:**	5
Instrument ID:	CVAA9	**Matrix:**	WW
Analytical Method:	245.1		

Analyte	OS Result	SD Result	RPD	RPD Limits
	ug/l	*ug/l*	*%*	*%*
Mercury,Dissolved	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4187386-3 / 20250317154108	**SDG:**	L1835142
OS Sample / File ID:	L1835052-03 / 20250317153829	**Analytical Batch:**	WG2467783
Lab File ID:	20250317154108	**Dilution Factor:**	5
Instrument ID:	CVAA9	**Matrix:**	WW
Analytical Method:	245.1		

Analyte	OS Result	SD Result	RPD	RPD Limits
	ug/l	*ug/l*	*%*	*%*
Mercury	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835142-01,02,03,04,05,06,07 **Analytical Method:** 245.1

Matrix: WW **Prep Method:** 245.1

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/l	*mg/l*
Mercury	7439-97-6		253.70	0.000130	0.0002
Mercury,Dissolved	7439-97-6		253.70	0.000130	0.0002

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1835142	**Analytical Method:**	245.1
Instrument ID:	CVAA9	**Date:**	07/10/23 14:11

Analyte	LDR
	ppm
MERCURY	0.01

ANALYSIS LOG

SDG:	L1835142	**Analytical Method:**	245.1
Instrument ID:	CVAA9	**Calibration Start Date:**	03/14/25 11:00
Analytical Run:	031425CVAA9 W	**Calibration End Date:**	03/14/25 11:13

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	CVAA90314251058	20250314105806	03/14/25 10:58		
CAL	STD 0.2	20250314110042	03/14/25 11:00		
CAL	STD 0.4	20250314110319	03/14/25 11:03		
CAL	STD 1.0	20250314110556	03/14/25 11:05		
CAL	STD 2.0	20250314110834	03/14/25 11:08		
CAL	STD 5.0	20250314111114	03/14/25 11:11		
CAL	STD 10.0	20250314111351	03/14/25 11:13		
ICV	CVAA90314251128-3	20250314112835-3	03/14/25 11:28		
ICB	CVAA90314251131-3	20250314113113-3	03/14/25 11:31		
ICVLL	CVAA90314251139-3	20250314113902-3	03/14/25 11:39		
CCV	CVAA90314251915	20250314191546	03/14/25 19:15		
CCB	CVAA90314251918	20250314191823	03/14/25 19:18		
L1834725-03	L1834725-03	20250314192059	03/14/25 19:20	10	WG2466870
BLANK	R4186741-1	20250314192340	03/14/25 19:23	1	WG2467784
LCS	R4186741-2	20250314192621	03/14/25 19:26	1	WG2467784
TRUMAN-S-SW-FILTERED	L1835142-07	20250314192904	03/14/25 19:29	1	WG2467784
SD	R4186741-3	20250314193146	03/14/25 19:31	5	WG2467784
MS	R4186741-4	20250314193415	03/14/25 19:34	1	WG2467784
MSD	R4186741-5	20250314193657	03/14/25 19:36	1	WG2467784
MONTROSE-LAKE-S-SW-FILTERED	L1835142-02	20250314193939	03/14/25 19:39	1	WG2467784
DEEPWATER-S-SW-FILTERED	L1835142-04	20250314194221	03/14/25 19:42	1	WG2467784
L1835192-01	L1835192-01	20250314194504	03/14/25 19:45	1	WG2467784
CCV	CVAA90314251947	20250314194745	03/14/25 19:47		
CCB	CVAA90314251950	20250314195023	03/14/25 19:50		

ANALYSIS LOG

SDG:	L1835142	**Analytical Method:**	245.1
Instrument ID:	CVAA9	**Calibration Start Date:**	03/17/25 11:31
Analytical Run:	031725CVAA9 W	**Calibration End Date:**	03/17/25 11:44

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	CVAA90317251129	20250317112913	03/17/25 11:29		
CAL	STD 0.2	20250317113149	03/17/25 11:31		
CAL	STD 0.4	20250317113425	03/17/25 11:34		
CAL	STD 1.0	20250317113702	03/17/25 11:37		
CAL	STD 2.0	20250317113941	03/17/25 11:39		
CAL	STD 5.0	20250317114219	03/17/25 11:42		
CAL	STD 10.0	20250317114456	03/17/25 11:44		
ICV	CVAA90317251200-3	20250317120050-3	03/17/25 12:00		
ICB	CVAA90317251203-3	20250317120327-3	03/17/25 12:03		
ICVLL	CVAA90317251211-3	20250317121117-3	03/17/25 12:11		
CCVLL	CVAA90317251349-3	20250317134918-3	03/17/25 13:49		
CCV	CVAA90317251447-2	20250317144746-2	03/17/25 14:47		
CCB	CVAA90317251450-2	20250317145023-2	03/17/25 14:50		
BLANK	R4187326-1	20250317145753	03/17/25 14:57	1	WG2470224
LCS	R4187326-2	20250317150019	03/17/25 15:00	1	WG2470224
OS	L1835907-01	20250317150259	03/17/25 15:02		
L1835907-01	L1835907-01	20250317150259	03/17/25 15:02	1	WG2470224
SD	R4187326-3	20250317150538	03/17/25 15:05	5	WG2470224
MS	R4187326-4	20250317150804	03/17/25 15:08	1	WG2470224
MSD	R4187326-5	20250317151043	03/17/25 15:10	1	WG2470224
L1835907-02	L1835907-02	20250317151322	03/17/25 15:13	1	WG2470224
BLANK	R4187386-1	20250317151601	03/17/25 15:16	1	WG2467783
CCV	CVAA90317251518-2	20250317151829-2	03/17/25 15:18		
CCB	CVAA90317251521-2	20250317152106-2	03/17/25 15:21		
CCVLL	CVAA90317251523-2	20250317152341-2	03/17/25 15:23		
CCVLL	CVAA90317251532-2	20250317153203-2	03/17/25 15:32		
OS	L1835052-03	20250317153829	03/17/25 15:38		
L1835052-03	L1835052-03	20250317153829	03/17/25 15:38	1	WG2467783
SD	R4187386-3	20250317154108	03/17/25 15:41	5	WG2467783
MS	R4187386-4	20250317154335	03/17/25 15:43	1	WG2467783
MSD	R4187386-5	20250317154615	03/17/25 15:46	1	WG2467783
OS	L1835053-06	20250317154854	03/17/25 15:48		
L1835053-06	L1835053-06	20250317154854	03/17/25 15:48	1	WG2467783
MS	R4187386-6	20250317155134	03/17/25 15:51	1	WG2467783
MSD	R4187386-7	20250317155413	03/17/25 15:54	1	WG2467783
L1834826-01	L1834826-01	20250317155652	03/17/25 15:56	1	WG2467783
L1834838-01	L1834838-01	20250317155931	03/17/25 15:59	1	WG2467783
CCV	CVAA90317251602	20250317160211	03/17/25 16:02		
CCB	CVAA90317251604	20250317160449	03/17/25 16:04		
L1834847-01	L1834847-01	20250317160724	03/17/25 16:07	1	WG2467783
L1834972-01	L1834972-01	20250317160952	03/17/25 16:09	1	WG2467783
L1834974-01	L1834974-01	20250317161218	03/17/25 16:12	1	WG2467783
L1834976-01	L1834976-01	20250317161446	03/17/25 16:14	1	WG2467783
L1835004-01	L1835004-01	20250317161713	03/17/25 16:17	30	WG2467783
MONTROSE-LAKE-S-SW	L1835142-01	20250317161940	03/17/25 16:19	1	WG2467783
DEEPWATER-S-SW	L1835142-03	20250317162208	03/17/25 16:22	1	WG2467783
DUP3-SW	L1835142-05	20250317162435	03/17/25 16:24	1	WG2467783
TRUMAN-S-SW	L1835142-06	20250317162703	03/17/25 16:27	1	WG2467783
L1835192-01	L1835192-01	20250317162930	03/17/25 16:29	1	WG2467783
CCV	CVAA90317251631	20250317163156	03/17/25 16:31		

ANALYSIS LOG

SDG:	L1835142	**Analytical Method:**	245.1
Instrument ID:	CVAA9	**Calibration Start Date:**	03/17/25 11:31
Analytical Run:	031725CVAA9 W	**Calibration End Date:**	03/17/25 11:44

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CCB	CVAA90317251634	20250317163434	03/17/25 16:34		
L1835192-02	L1835192-02	20250317163711	03/17/25 16:37	1	WG2467783
L1835192-03	L1835192-03	20250317163938	03/17/25 16:39	1	WG2467783
L1835197-01	L1835197-01	20250317164206	03/17/25 16:42	1	WG2467783
LCS	R4187386-8	20250317165201	03/17/25 16:52	1	WG2467783
CCV	CVAA90317251705	20250317170514	03/17/25 17:05		
CCB	CVAA90317251707	20250317170751	03/17/25 17:07		
CCVLL	CVAA90317251710	20250317171027	03/17/25 17:10		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
MERCURY	0.0002	.00016436	82.20	0.0004	.0004141448	104
File ID:		20250314110042			20250314110319	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
MERCURY	0.0010	.001032995	103	0.0020	.001998152	99.90
File ID:		20250314110556			20250314110834	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
MERCURY	0.0050	.005071333	101	0.01	.009961549	99.60
File ID:		20250314111114			20250314111351	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
MERCURY	0.0002	.0001628834	81.40	0.0004	.0003988409	99.70
File ID:		20250317113149			20250317113425	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
MERCURY	0.0010	.0009676813	96.80	0.0020	.001976586	98.80
File ID:		20250317113702			20250317113941	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
MERCURY	0.0050	.005203708	104	0.01	.009906852	99.10
File ID:		20250317114219			20250317114456	

16A-IN

INITIAL CALIBRATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
MERCURY	253.7	0	5	0.999932	12.48397	0.000531

Calibration Type

0 = Linear Regression

Weightage

5 = None

16A-IN

INITIAL CALIBRATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
MERCURY	253.7	0	5	0.99967	11.49208	0.00019

Calibration Type

0 = Linear Regression

Weightage

5 = None

Sample ID: CALIBRATION BLANK Units: mg/L
Analyzed: 03/14/25 10:58 Sequence: 1 Standard ID:

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.0001000262	0.0001748243	0.00006075172	0.00006450269

Sample ID: STD 0.2 Units: mg/L
Analyzed: 03/14/25 11:00 Sequence: 2 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.002582881	0.002742259	0.002492923	0.002513462

Sample ID: STD 0.4 Units: mg/L
Analyzed: 03/14/25 11:03 Sequence: 3 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.005701187	0.005961145	0.005583155	0.005559261

Sample ID: STD 1.0 Units: mg/L
Analyzed: 03/14/25 11:05 Sequence: 4 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.01342689	0.01388519	0.01318926	0.01320621

Sample ID: STD 2.0 Units: mg/L
Analyzed: 03/14/25 11:08 Sequence: 5 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.02547589	0.02610824	0.02515833	0.02516111

Sample ID: STD 5.0 Units: mg/L
Analyzed: 03/14/25 11:11 Sequence: 6 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.06384139	0.06562882	0.06326591	0.06262944

Sample ID: STD 10.0 Units: mg/L
Analyzed: 03/14/25 11:13 Sequence: 7 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.1248907	0.1283053	0.1232495	0.1231172

Sample ID: ICV-3 Units: mg/L
Analyzed: 03/14/25 11:28 Sequence: 8 Standard ID: 25C07039

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06568877	0.005219315	0.005354635	0.005159866	0.005143444

Sample ID: ICB-3 Units: mg/L
Analyzed: 03/14/25 11:31 Sequence: 9

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001095163	-0.00003376352	-0.00003153861	-0.00003320018	-0.00003655177

Sample ID: ICVLL-3 Units: mg/L
Analyzed: 03/14/25 11:39 Sequence: 12 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002531451	0.0001602401	0.0001662400	0.0001593443	0.0001551361

Sample ID: CCV Units: mg/L
Analyzed: 03/14/25 19:15 Sequence: 179 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06051764	0.004805093	0.004903262	0.004770524	0.004741494

Sample ID: CCB Units: mg/L
Analyzed: 03/14/25 19:18 Sequence: 180

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002747309	-0.00002052937	0.00003669156	-0.00004824808	-0.00005003161

Sample ID: L1834725-03 DF: 1x bench / 10x total Batch: WG2466870 Units: mg/l
Analyzed: 03/14/25 19:20 Sequence: 181

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001356727	-0.00003166832	-0.00002790762	-0.00003416674	-0.00003293059

Sample ID: BLANK DF: 1x Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:23 Sequence: 182

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00006301901	-0.00003748808	-0.00003795936	-0.00003624655	-0.00003825832

Sample ID: LCS DF: 1x Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:26 Sequence: 183

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03800863	0.003002059	0.003073912	0.002960402	0.002971864

Sample ID: L1835142-07 DF: 1x Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:29 Sequence: 184

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0007491936	0.00001747640	0.0001153661	-0.00003055375	-0.00003238316

Sample ID: SD DF: 5x Ref Sample ID: L1835142-07 Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:31 Sequence: 185

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.00002940980	-0.00004489188	-0.0002149083	-0.0002246863	-0.0002337835

Sample ID: MS DF: 1x Ref Sample ID: L1835142-07 Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:34 Sequence: 186

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03599997	0.002841161	0.002919631	0.002818497	0.002785355

Sample ID: MSD DF: 1x Ref Sample ID: L1835142-07 Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:36 Sequence: 187

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03782485	0.002987338	0.003139349	0.002927511	0.002895155

Sample ID: L1835142-02 DF: 1x Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:39 Sequence: 188

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0006227812	0.000007350415	0.00009371715	-0.00003276568	-0.00003890023

Sample ID: L1835142-04 DF: 1x Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:42 Sequence: 189

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00007770840	-0.00003631142	-0.00003255337	-0.00003624392	-0.00004013697

Sample ID: L1835192-01 DF: 1x Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:45 Sequence: 190

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00006988437	-0.00003693814	-0.00003258464	-0.00004028452	-0.00003794527

Sample ID: CCV Units: mg/L
Analyzed: 03/14/25 19:47 Sequence: 191 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06048607	0.004802564	0.004889952	0.004764606	0.004753135

Sample ID: CCB Units: mg/L
Analyzed: 03/14/25 19:50 Sequence: 192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0007135535	0.00001462153	0.0001394170	-0.00004797211	-0.00004758031

Sample ID: CALIBRATION BLANK Units: mg/L
Analyzed: 03/17/25 11:29 Sequence: 1 Standard ID:

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.0004524961	0.0003720710	0.0002986945	0.0006867227

Sample ID: STD 0.2 Units: mg/L
Analyzed: 03/17/25 11:31 Sequence: 2 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.002062038	0.002238719	0.001967372	0.001980021

Sample ID: STD 0.4 Units: mg/L
Analyzed: 03/17/25 11:34 Sequence: 3 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.004773680	0.004971102	0.004691020	0.004658918

Sample ID: STD 1.0 Units: mg/L
Analyzed: 03/17/25 11:37 Sequence: 4 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.01131084	0.01171291	0.01109190	0.01112771

Sample ID: STD 2.0 Units: mg/L
Analyzed: 03/17/25 11:39 Sequence: 5 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.02290525	0.02359548	0.02249915	0.02262113

Sample ID: STD 5.0 Units: mg/L
Analyzed: 03/17/25 11:42 Sequence: 6 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.05999160	0.06153422	0.05924663	0.05919395

Sample ID: STD 10.0 Units: mg/L
Analyzed: 03/17/25 11:44 Sequence: 7 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.1140405	0.1175277	0.1123275	0.1122663

Sample ID: ICV-3 Units: mg/L
Analyzed: 03/17/25 12:00 Sequence: 8 Standard ID: 25C14191

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05757848	0.004993726	0.005139267	0.004907696	0.004934214

Sample ID: ICB-3 Units: mg/L
Analyzed: 03/17/25 12:03 Sequence: 9

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0004948678	0.00002651387	0.00004361459	0.00001953203	0.00001639499

Sample ID: ICVLL-3 Units: mg/L
Analyzed: 03/17/25 12:11 Sequence: 12 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002278357	0.0001817068	0.0001832507	0.0001816157	0.0001802539

Sample ID: CCVLL-3 Units: mg/L
Analyzed: 03/17/25 13:49 Sequence: 49 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002121227	0.0001680339	0.0001849771	0.0001569657	0.0001621587

Sample ID: CCV-2 Units: mg/L
Analyzed: 03/17/25 14:47 Sequence: 72 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05342549	0.004632348	0.004793187	0.004532266	0.004571590

Sample ID: CCB-2 Units: mg/L
Analyzed: 03/17/25 14:50 Sequence: 73

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0006569698	0.00004061941	0.0001510693	-0.00001319052	-0.00001602058

Sample ID: BLANK DF: 1x Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 14:57 Sequence: 76

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0002632282	-0.00003945294	-0.00003190752	-0.00004368874	-0.00004276255

Sample ID: LCS DF: 1x Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 15:00 Sequence: 77

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03069148	0.002654115	0.002743486	0.002599333	0.002619526

Sample ID: L1835907-01 DF: 1x Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 15:02 Sequence: 78

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002973965	0.000009330626	0.00009499925	-0.00003203672	-0.00003497065

Sample ID: SD DF: 5x Ref Sample ID: L1835907-01 Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 15:05 Sequence: 79

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0003769283	-0.00004934672	-0.0002252887	-0.0002600503	-0.0002548617

Sample ID: MS DF: 1x Ref Sample ID: L1835907-01 Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 15:08 Sequence: 80

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03186760	0.002756457	0.002884858	0.002690645	0.002693869

Sample ID: MSD DF: 1x Ref Sample ID: L1835907-01 Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 15:10 Sequence: 81

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03121675	0.002699823	0.002887040	0.002603423	0.002609005

Sample ID: L1835907-02 DF: 1x Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 15:13 Sequence: 82

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0005469567	0.00003104646	0.0001463900	-0.00002545387	-0.00002779676

Sample ID: BLANK DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:16 Sequence: 83

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0002073641	-0.00003459184	-0.00003371634	-0.00003492161	-0.00003513759

Sample ID: CCV-2 Units: mg/L
Analyzed: 03/17/25 15:18 Sequence: 84 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05220276	0.004525950	0.004673682	0.004428471	0.004475699

Sample ID: CCB-2 Units: mg/L
Analyzed: 03/17/25 15:21 Sequence: 85

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0005545664	0.00003170863	0.0001123539	-0.000002702000	-0.00001452597

Sample ID: CCVLL-2 Units: mg/L
Analyzed: 03/17/25 15:23 Sequence: 86 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001997883	0.0001573009	0.0001707387	0.0001512859	0.0001498780

Sample ID: CCVLL-2 Units: mg/L
Analyzed: 03/17/25 15:32 Sequence: 87 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001971910	0.0001550408	0.0001772213	0.0001436928	0.0001442083

Sample ID: L1835052-03 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:38 Sequence: 89

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0007817158	0.00005147436	0.0001999081	-0.00001470588	-0.00003077916

Sample ID: SD DF: 5x Ref Sample ID: L1835052-03 Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:41 Sequence: 90

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0003278904	-0.00004507961	-0.0001757897	-0.0002444048	-0.0002559996

Sample ID: MS DF: 1x Ref Sample ID: L1835052-03 Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:43 Sequence: 91

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03301685	0.002856461	0.003033938	0.002778399	0.002757045

Sample ID: MSD DF: 1x Ref Sample ID: L1835052-03 Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:46 Sequence: 92

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03480486	0.003012047	0.003224604	0.002898541	0.002912996

Sample ID: L1835053-06 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:48 Sequence: 93

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0004477901	0.00002241734	0.00008316212	-0.0000003927099	-0.00001551741

Sample ID: MS DF: 1x Ref Sample ID: L1835053-06 Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:51 Sequence: 94

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03356459	0.002904123	0.003004156	0.002839655	0.002868559

Sample ID: MSD DF: 1x Ref Sample ID: L1835053-06 Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:54 Sequence: 95

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03433355	0.002971035	0.003156847	0.002907616	0.002848643

Sample ID: L1834826-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:56 Sequence: 96

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0006873075	0.00004325929	0.0001829514	-0.00002337972	-0.00002979386

Sample ID: L1834838-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:59 Sequence: 97

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001643716	-0.000002244729	0.00001142388	-0.000007089727	-0.00001106834

Sample ID: CCV Units: mg/L
Analyzed: 03/17/25 16:02 Sequence: 98 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05673622	0.004920436	0.005039018	0.004846948	0.004875342

Sample ID: CCB Units: mg/L
Analyzed: 03/17/25 16:04 Sequence: 99

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001312273	0.00009764157	0.0002974370	-0.000002694069	-0.000001818215

Sample ID: L1834847-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:07 Sequence: 100

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0001012287	-0.00002535632	-0.00001855784	-0.00002611535	-0.00003139578

Sample ID: L1834972-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:09 Sequence: 101

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.00009091090	-0.00002445850	-0.00002421597	-0.00002460123	-0.00002455831

Sample ID: L1834974-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:12 Sequence: 102

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.00005819613	-0.00002161178	-0.00002222356	-0.00002033514	-0.00002227664

Sample ID: L1834976-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:14 Sequence: 103

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.00004599821	-0.00002055036	-0.000009408410	-0.00002499186	-0.00002725081

Sample ID: L1835004-01 DF: 1x bench / 30x total Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:17 Sequence: 104

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.00009402260	-0.00002472927	-0.00001718395	-0.00003169739	-0.00002530647

Sample ID: L1835142-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:19 Sequence: 105

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0002112345	-0.00003492863	-0.00003037177	-0.00003469711	-0.00003971701

Sample ID: L1835142-03 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:22 Sequence: 106

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0002125912	-0.00003504669	-0.00003232149	-0.00003722165	-0.00003559692

Sample ID: L1835142-05 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:24 Sequence: 107

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0001648672	-0.00003089391	-0.00002445788	-0.00003307804	-0.00003514582

Sample ID: L1835142-06 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:27 Sequence: 108

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0001729506	-0.00003159730	-0.00002800640	-0.00003400677	-0.00003277874

Sample ID: L1835192-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:29 Sequence: 109

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0001601698	-0.00003048516	-0.00002497521	-0.00003387014	-0.00003261014

Sample ID: CCV Units: mg/L
Analyzed: 03/17/25 16:31 Sequence: 110 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05681776	0.004927531	0.005115908	0.004819285	0.004847398

Sample ID: CCB Units: mg/L
Analyzed: 03/17/25 16:34 Sequence: 111

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0008687687	0.00005904940	0.0002114325	-0.00001739540	-0.00001688888

Sample ID: L1835192-02 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:37 Sequence: 112

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.00009231885	-0.00002458102	-0.00002358082	-0.00002553892	-0.00002462331

Sample ID: L1835192-03 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:39 Sequence: 113

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0001334137	-0.00002815695	-0.00002433294	-0.00002771681	-0.00003242109

Sample ID: L1835197-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:42 Sequence: 114

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0001166521	-0.00002669841	-0.00001865437	-0.00003108716	-0.00003035369

Sample ID: LCS DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:52 Sequence: 117

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03439426	0.002976318	0.003198333	0.002864911	0.002865708

Sample ID: CCV Units: mg/L
Analyzed: 03/17/25 17:05 Sequence: 122 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05698999	0.004942518	0.005283638	0.004841778	0.004702136

Sample ID: CCB Units: mg/L
Analyzed: 03/17/25 17:07 Sequence: 123

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001468019	0.0001111940	0.0003335773	0.000004368664	-0.000004363971

Sample ID: CCVLL Units: mg/L
Analyzed: 03/17/25 17:10 Sequence: 124 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002139979	0.0001696656	0.0001855310	0.0001591594	0.0001643063

245.1 WW HG Metals Prep Benchsheet

Batch: WG2466870

Analyst: NDL4057 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Hotblock ID:** MPN **15min KMNO4 HoldTime:** 03/13/25 18:01:44
Hotblock Time On: 03/13/25 18:16:44 **Uncorrected Temp On:** 92 **Corrected Temp On:** 93 **Hotblock Time Off:** 03/13/25 20:16:44 **Uncorrected Temp Off:** 94
Corrected Temp Off: 95 **Thermometer Correction Factor:** +1.0 **Filter Lot#:** NA **pH Lot #:** 10BDH40241 **Prep Date:** 03/13/25 16:38-16:42
Prep End Date/Time: 03/13/25 22:41 **Calibration and Instrument Stds:** 25C13019 **SOP:** ENV-SOP-MTJL-0212 **Method:** 245.1 **Thermometer ID#:** 918848
Pipette Tip Lot#: 24400014 **Cal and Stds Workgroup:** WG2468225 **Thermometer Location:** C6 **Pipette ID:** F13609441 **Repeat Pipette ID:** 24B38914
Repeat Pipette Tip Lot#: N215100J

LCS/MS Spike: 25C07039 Amt. Used: 90 uL Exp. Date:03/14/25 **HNO3:** 25C04557 Amt. Used: 0.75 mL Exp. Date:09/04/25
H2SO4: 25C04556 Amt. Used: 1.50 mL Exp. Date:09/04/25 **KMNO4:** 25C12810 Amt. Used: 5 mL Exp. Date:03/19/25
K2S2O8: 25C10323 Amt. Used: 2.50 mL Exp. Date:03/17/25 **H8N2O6S:** 25C12815 Amt. Used: 2 mL Exp. Date:03/19/25 **SnCl:** 25C13023 mL Exp. Date:03/13/25
HCl: 25C13024 mL Exp. Date:03/13/25

Sample ID	Sample Matrix	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK		30	30.0	DI WATER	~7	SDG4113	03/13/25 22:42:06
LCS		30	30.0	DI WATER	~7	SDG4113	03/13/25 22:42:06
MS(L1834323-01)		30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
MS(L1834451-01)		30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
MSD(L1834323-01)		30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
MSD(L1834451-01)		30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
1. L1834323-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
2. L1834368-01	WW	30	30.0	BROWN	<2	SDG4113	03/13/25 22:42:06
3. L1834393-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
4. L1834400-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
5. L1834428-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
6. L1834451-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
7. L1834455-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
8. L1834624-01	WW	30	30.0	YELLOW	<2	SDG4113	03/13/25 22:42:06
9. L1834629-01	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
10. L1834629-02	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
11. L1834640-01	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
12. L1834640-02	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
13. L1834640-03	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
14. L1834640-04	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
15. L1834640-05	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
16. L1834640-06	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
17. L1834701-01	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
18. L1834725-01	WW	3	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
19. L1834725-02	WW	3	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
20. L1834725-03	WW	3	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06

Comments:
L1834725-01, L1834725-02, & L1834725-03 prepped at 3mL due to low volume. -SDG4113

Reviewed By:SDG4113 on 03/13/25 22:42:06

245.1 WW HG Metals Prep Benchsheet

Batch: WG2467783

Analyst: SDG4113 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Hotblock ID:** MPC **15min KMNO4 HoldTime:** 03/16/25 20:45:42
Hotblock Time On: 03/16/25 21:00:42 **Uncorrected Temp On:** 94 **Corrected Temp On:** 94 **Hotblock Time Off:** 03/16/25 23:00:42 **Uncorrected Temp Off:** 98
Corrected Temp Off: 98 **Thermometer Correction Factor:** 0.0 **Filter Lot#:** NA **pH Lot #:** 10BDH40241 **Prep Date:** 03/14/25 22:59-23:14
Prep End Date/Time: 03/16/25 23:12 **Calibration and Instrument Stds:** 25C14197 **SOP:** ENV-SOP-MTJL-0212 **Method:** 245.1 **Thermometer ID#:** 6426746
Pipette Tip Lot#: 24400014 **Cal and Stds Workgroup:** WG2470117 **Thermometer Location:** D2 **Pipette ID:** F13609441 **Repeat Pipette ID:** 24B38914
Repeat Pipette Tip Lot#: N215100J

LCS/MS Spike: 25C14191 Amt. Used: 90 uL Exp. Date:03/21/25 **HNO3:** 25C04557 Amt. Used: 0.75 mL Exp. Date:09/04/25
H2SO4: 25C04556 Amt. Used: 1.50 mL Exp. Date:09/04/25 **KMNO4:** 25C13087 Amt. Used: 5 mL Exp. Date:03/20/25
K2S2O8: 25C10323 Amt. Used: 2.50 mL Exp. Date:03/17/25 **H8N2O6S:** 25C12815 Amt. Used: 2 mL Exp. Date:03/19/25 **SnCl:** 25C16369 mL Exp. Date:03/16/25
HCl: 25C16370 mL Exp. Date:03/16/25

Sample ID	Prep Flags	Sample Matrix	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK			30	30.0	DI WATER	~7	SDG4113	03/16/25 23:12:37
LCS			30	30.0	DI WATER	~7	SDG4113	03/16/25 23:12:37
MS(L1835052-03)			30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
MS(L1835053-06)			30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
MSD(L1835052-03)			30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
MSD(L1835053-06)			30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
1. L1834826-01		WW	30	30.0	GREY	<2	SDG4113	03/16/25 23:12:37
2. L1834838-01		WW	30	30.0	YELLOW	<2	SDG4113	03/16/25 23:12:37
3. L1834847-01		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
4. L1834972-01		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
5. L1834974-01		WW	30	30.0	BROWN	<2	SDG4113	03/16/25 23:12:37
6. L1834976-01		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
7. L1835004-01	T2	WW	1	30.0	DARK YELLOW	6	SDG4113	03/16/25 23:12:37
8. L1835052-03		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
9. L1835053-06		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
10. L1835142-01		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
11. L1835142-03		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
12. L1835142-05		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
13. L1835142-06		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
14. L1835192-01		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
15. L1835192-02		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
16. L1835192-03		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
17. L1835197-01		WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/16/25 23:12:37

Comments:
L1835004-01 prepped at 1mL due to reaction to KMNO4. -SDG4113

Reviewed By:SDG4113 on 03/16/25 23:12:37

245.1 WW HGD Metals Prep Benchsheet

Batch: WG2467784

Analyst: NDL4057 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Hotblock ID:** HG1 **15min KMNO4 HoldTime:** 03/13/25 18:01:54
Hotblock Time On: 03/13/25 18:16:54 **Uncorrected Temp On:** 96 **Corrected Temp On:** 96 **Hotblock Time Off:** 03/13/25 20:16:54 **Uncorrected Temp Off:** 98
Corrected Temp Off: 98 **Thermometer Correction Factor:** 0.0 **Filter Lot#:** NA **pH Lot #:** 10BDH40241 **Prep Date:** 03/13/25 16:48-16:51
Prep End Date/Time: 03/13/25 22:41 **Calibration and Instrument Stds:** 25C13019 **Method:** 245.1 **SOP:** ENV-SOP-MTJL-0212 **Thermometer ID#:** 1042439
Pipette Tip Lot#: 24400014 **Cal and Stds Workgroup:** WG2468225 **Thermometer Location:** C6 **Pipette ID:** F13609441 **Repeat Pipette ID:** 24B38914
Repeat Pipette Tip Lot#: N215100J

LCS/MS Spike: 25C07039 Amt. Used: 90 uL Exp. Date:03/14/25 **HNO3:** 25C04557 Amt. Used: 0.75 mL Exp. Date:09/04/25
H2SO4: 25C04556 Amt. Used: 1.50 mL Exp. Date:09/04/25 **KMNO4:** 25C12810 Amt. Used: 5 mL Exp. Date:03/19/25
K2S2O8: 25C10323 Amt. Used: 2.50 mL Exp. Date:03/17/25 **H8N2O6S:** 25C12815 Amt. Used: 2 mL Exp. Date:03/19/25 **SnCl:** 25C13023 mL Exp. Date:03/13/25
HCl: 25C13024 mL Exp. Date:03/13/25

Sample ID	Sample Matrix	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK		30	30.0	DI WATER	~7	SDG4113	03/13/25 22:41:35
LCS		30	30.0	DI WATER	~7	SDG4113	03/13/25 22:41:35
MS(L1835142-07)		30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35
MSD(L1835142-07)		30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35
1. L1835142-02	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35
2. L1835142-04	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35
3. L1835142-07	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35
4. L1835192-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35
5. L1835192-02	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35

Comments:

Reviewed By:SDG4113 on 03/13/25 22:41:35

245.1 WW HG Metals Prep Benchsheet

Batch: WG2470224

Analyst: SDG4113 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5017-IM **Hotblock ID:** MPC **15min KMNO4 HoldTime:** 03/16/25 20:45:35
Hotblock Time On: 03/16/25 21:00:40 **Uncorrected Temp On:** 94 **Corrected Temp On:** 94 **Hotblock Time Off:** 03/16/25 23:00:44 **Uncorrected Temp Off:** 98
Corrected Temp Off: 98 **Thermometer Correction Factor:** 0.0 **Filter Lot#:** NA **pH Lot #:** 10BDH40241 **Prep Date:** 03/16/25 19:47
Prep End Date/Time: 03/16/25 23:13 **Calibration and Instrument Stds:** 25C14197 **SOP:** ENV-SOP-MTJL-0212 **Method:** 245.1 **Thermometer ID#:** 6426746
Pipette Tip Lot#: 24400014 **Cal and Stds Workgroup:** WG2470117 **Thermometer Location:** D2 **Pipette ID:** F13609441 **Repeat Pipette ID:** 24B38914
Repeat Pipette Tip Lot#: N215100J

LCS/MS Spike: 25C14191 Amt. Used: 90 uL Exp. Date:03/21/25 **HNO3:** 25C04557 Amt. Used: 0.75 mL Exp. Date:09/04/25
H2SO4: 25C04556 Amt. Used: 1.50 mL Exp. Date:09/04/25 **KMNO4:** 25C13087 Amt. Used: 5 mL Exp. Date:03/20/25
K2S2O8: 25C10323 Amt. Used: 2.50 mL Exp. Date:03/17/25 **H8N2O6S:** 25C12815 Amt. Used: 2 mL Exp. Date:03/19/25 **SnCl:** 25C16369 mL Exp. Date:03/16/25
HCl: 25C16370 mL Exp. Date:03/16/25

Sample ID	Sample Matrix	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK		30	30.0	DI WATER	~7	SDG4113	03/16/25 23:14:03
LCS		30	30.0	DI WATER	~7	SDG4113	03/16/25 23:14:03
MS(L1835907-01)		30	30.0	CLEAR	<2	SDG4113	03/16/25 23:14:03
MSD(L1835907-01)		30	30.0	CLEAR	<2	SDG4113	03/16/25 23:14:03
1. L1835907-01	WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:14:03
2. L1835907-02	WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:14:03

Comments:

Reviewed By:SDG4113 on 03/16/25 23:14:03

9056A Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-S-SW

Lab Sample ID:	L1835142-01	**SDG:**	L1835142
Client Sample ID:	MONTROSE-LAKE-S-SW	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	43.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 19:43
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 19:43
Dilution Factor:	10	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	83600		6370	50000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: MONTROSE-LAKE-S-SW-FILTERED

Lab Sample ID:	L1835142-02	**SDG:**	L1835142
Client Sample ID:	MONTROSE-LAKE-S-SW-FILTERED	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	44.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 19:56
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 19:56
Dilution Factor:	10	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate, Dissolved	14808-79-8	87000		6370	50000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DEEPWATER-S-SW

Lab Sample ID:	L1835142-03	**SDG:**	L1835142
Client Sample ID:	DEEPWATER-S-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	47.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 20:36
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 20:36
Dilution Factor:	10	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	149000		6370	50000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DEEPWATER-S-SW-FILTERED

Lab Sample ID:	L1835142-04	**SDG:**	L1835142
Client Sample ID:	DEEPWATER-S-SW-FILTERED	**Collected Date/Time:**	03/11/25 16:10
Lab File ID:	48.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 20:50
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 20:50
Dilution Factor:	10	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate, Dissolved	14808-79-8	143000		6370	50000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835142-05	**SDG:**	L1835142
Client Sample ID:	DUP3-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	49.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 21:03
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 21:03
Dilution Factor:	10	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	141000		6370	50000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
TRUMAN-S-SW

Lab Sample ID:	L1835142-06	**SDG:**	L1835142
Client Sample ID:	TRUMAN-S-SW	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	50.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 21:16
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 21:16
Dilution Factor:	5	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	41500		3180	25000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
TRUMAN-S-SW-FILTERED

Lab Sample ID:	L1835142-07	**SDG:**	L1835142
Client Sample ID:	TRUMAN-S-SW-FILTERED	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	51.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 21:30
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 21:30
Dilution Factor:	1	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate, Dissolved	14808-79-8	44800		637	5000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186384-1	**SDG:**	L1835142
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	16.0000.txt	**Received Date/Time:**	
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 13:40
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 13:40
Dilution Factor:	1	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate, Dissolved	14808-79-8	U		637	5000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186384-3	**SDG:**	L1835142
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 11:21
Lab File ID:	19.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 14:21
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 14:21
Dilution Factor:	1	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate, Dissolved	14808-79-8	47000		637	5000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186384-2	**SDG:**	L1835142
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	17.0000.txt	**Received Date/Time:**	
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 13:54
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 13:54
Dilution Factor:	1	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate, Dissolved	14808-79-8	39100		637	5000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186384-6	**SDG:**	L1835142
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 11:20
Lab File ID:	35.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 17:55
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 17:55
Dilution Factor:	1	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate, Dissolved	14808-79-8	U		637	5000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186384-4	**SDG:**	L1835142
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 11:21
Lab File ID:	20.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 14:34
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 14:34
Dilution Factor:	1	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate, Dissolved	14808-79-8	76200	J6	637	5000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186384-7	**SDG:**	L1835142
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 11:20
Lab File ID:	36.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 18:09
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 18:09
Dilution Factor:	1	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate, Dissolved	14808-79-8	40300		637	5000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186384-5	**SDG:**	L1835142
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 11:21
Lab File ID:	21.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/13/25 14:47
Analytical Batch:	WG2468095	**Analysis Date/Time:**	03/13/25 14:47
Dilution Factor:	1	**Prep Method:**	9056A
Analytical Method:	9056A	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate, Dissolved	14808-79-8	77200	J6	637	5000

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056A	**Analytical Run:**	030825B
Concentration Units:	mg/l		

SSCV

Sample ID: IC-230309250106-2

Analyte	True	Found	%R	%RSD
BROMIDE	40	39.5295	98.80	
CHLORATE	2.50	2.2565	90.30	
CHLORIDE	40	39.8348	99.60	
FLUORIDE	8	8.0915	101	
NITRATE	8	8.1098	101	
NITRITE	8	8.1004	101	
SULFATE	40	40.3796	101	

SSCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056A	**Analytical Run:**	030925
Concentration Units:	mg/l		

SSCV

Sample ID: IC-230309250106

Analyte	True	Found	%R	%RSD
BROMIDE	40	39.5295	98.80	
CHLORATE	2.50	2.2565	90.30	
CHLORIDE	40	39.8348	99.60	
FLUORIDE	8	8.0915	101	
NITRATE	8	8.1098	101	
NITRITE	8	8.1004	101	
SULFATE	40	40.3796	101	

SSCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056A	**Analytical Run:**	031325
Concentration Units:	mg/l		

		ICV				CCV				CCV			
Sample ID:		IC-230313250827				IC-230313251702				IC-230313252009-2			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
SULFATE	50	49.3126	98.60		50	50.394	101		50	50.6972	101	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056A	**Analytical Run:**	031325
Concentration Units:	mg/l		

CCV

Sample ID: IC-230313252143

Analyte	True	Found	%R	%RSD
SULFATE	50	50.0069	100	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1835142	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056A	**Analytical Run:**	030925

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	11.0000.txt	
Analyte	mg/l	
BROMIDE	0.3836	U
CHLORATE	0.0000	U
CHLORIDE	0.1243	U
FLUORIDE	0.01880	U
NITRATE	0.05420	U
NITRITE	0.03280	U
SULFATE	0.2010	U

SDG:	L1835142	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056A	**Analytical Run:**	031725

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	11.0000.txt-2	
Analyte	mg/l	
BROMIDE	0.3836	U
CHLORATE	0.0000	U
CHLORIDE	0.1243	U
FLUORIDE	0.01880	U
NITRATE	0.05420	U
NITRITE	0.03280	U
SULFATE	0.2010	U

SDG:	L1835142	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056A	**Analytical Run:**	031325

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	16.0000.txt		32.0000.txt		46.0000.txt-2		53.0000.txt	
Analyte	mg/l		mg/l		mg/l		mg/l	
SULFATE	U		0.2102	U	0.2494	U	0.2031	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835142-01,02,03,04,05,06,07

SAMPLE NO.:
R4186384-4
R4186384-5

MS Sample / File ID:	R4186384-4 / 20.0000.txt	**SDG:**	L1835142
MSD Sample / File ID:	R4186384-5 / 21.0000.txt	**Analytical Batch:**	WG2468095
OS Sample / File ID:	L1834938-01 / 18.0000.txt	**Matrix:**	WW
Instrument ID:	IC-23		
Analytical Method:	9056A		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Sulfate, Dissolved	40000	46600	76200	77200	73.9*	76.5*	1	80.0 - 120	1.39	15

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835142-01,02,03,04,05,06,07

SAMPLE NO.: R4186384-7

MS Sample / File ID:	R4186384-7 / 36.0000.txt	**SDG:**	L1835142
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2468095
OS Sample / File ID:	L1834938-09 / 34.0000.txt	**Matrix:**	WW
Instrument ID:	IC-23		
Analytical Method:	9056A		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*		*%*	*%*		*%*	*%*	*%*
Sulfate, Dissolved	40000	U	40300		101		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4186384-3 / 19.0000.txt	**SDG:**	L1835142
OS Sample / File ID:	L1834938-01 / 18.0000.txt	**Analytical Batch:**	WG2468095
Instrument ID:	IC-23	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	ug/l	*ug/l*	*%*	*%*
Sulfate, Dissolved	46600	47000	0.814	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4186384-6 / 35.0000.txt	**SDG:**	L1835142
OS Sample / File ID:	L1834938-09 / 34.0000.txt	**Analytical Batch:**	WG2468095
Instrument ID:	IC-23	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	ug/l	*ug/l*	*%*	*%*
Sulfate, Dissolved	U	U	0.000	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835142-01,02,03,04,05,06,07

SAMPLE NO.:
R4186384-2

LCS Sample / File ID:	R4186384-2 / 17.0000.txt	**SDG:**	L1835142
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2468095
Instrument ID:	IC-23	**Dilution Factor:**	1
Analytical Method:	9056A	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Sulfate, Dissolved	40000	39100		97.7		80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835142-01,02,03,04,05,06,07 **Analytical Method:** 9056A

Matrix: WW **Prep Method:** 9056A

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/l	*mg/l*
Sulfate	14808-79-8			0.6370	5
Sulfate, Dissolved	14808-79-8			0.6370	5

ANALYSIS LOG

SDG:	L1835142	**Analytical Method:**	9056A
Instrument ID:	IC-23	**Calibration Start Date:**	_____
Analytical Run:	030825B	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	CAL 1	03.0000.TXT	03/08/25 23:32		
CAL	CAL 2	04.0000.TXT	03/08/25 23:46		
CAL	CAL 3	05.0000.TXT	03/08/25 23:59		
CAL	CAL 4	06.0000.TXT	03/09/25 00:13		
CAL	CAL 5	07.0000.TXT	03/09/25 00:26		
CAL	CAL 6	08.0000.TXT	03/09/25 00:39		
CAL	CAL 7	09.0000.TXT	03/09/25 00:53		
SSCV	IC-230309250106-2	10.0000.txt-2	03/09/25 01:06		

ANALYSIS LOG

SDG:	L1835142	**Analytical Method:**	9056A
Instrument ID:	IC-23	**Calibration Start Date:**	_____
Analytical Run:	030925	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
SSCV	IC-230309250106	10.0000.txt	03/09/25 01:06		
ICB	IC-230309250120	11.0000.txt	03/09/25 01:20		

ANALYSIS LOG

SDG:	L1835142	**Analytical Method:**	9056A
Instrument ID:	IC-23	**Calibration Start Date:**	_____
Analytical Run:	031725	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICB	IC-230309250120-2	11.0000.txt-2	03/09/25 01:20		

ANALYSIS LOG

SDG:	L1835142	**Analytical Method:**	9056A
Instrument ID:	IC-23	**Calibration Start Date:**	03/08/25 23:32
Analytical Run:	031325	**Calibration End Date:**	03/09/25 00:53

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	IC-230313250827	14.0000.txt	03/13/25 08:27		
RL	IC-230313250840	15.0000.txt	03/13/25 08:40		
BLANK	R4186384-1	16.0000.txt	03/13/25 13:40	1	WG2468095
LCS	R4186384-2	17.0000.txt	03/13/25 13:54	1	WG2468095
OS	L1834938-01	18.0000.txt	03/13/25 14:07		
DUP	R4186384-3	19.0000.txt	03/13/25 14:21	1	WG2468095
MS	R4186384-4	20.0000.txt	03/13/25 14:34	1	WG2468095
MSD	R4186384-5	21.0000.txt	03/13/25 14:47	1	WG2468095
CCV	IC-230313251702	31.0000.txt	03/13/25 17:02		
CCB	IC-230313251715	32.0000.txt	03/13/25 17:15		
OS	L1834938-09	34.0000.txt	03/13/25 17:42		
DUP	R4186384-6	35.0000.txt	03/13/25 17:55	1	WG2468095
MS	R4186384-7	36.0000.txt	03/13/25 18:09	1	WG2468095
L1835136-01	L1835136-01	37.0000.txt	03/13/25 18:22	1	WG2468095
L1835136-02	L1835136-02	39.0000.txt	03/13/25 18:49	5	WG2468095
L1835136-03	L1835136-03	41.0000.txt	03/13/25 19:16	1	WG2468095
L1835136-03	L1835136-03	42.0000.txt	03/13/25 19:29	10	WG2468095
MONTROSE-LAKE-S-SW	L1835142-01	43.0000.txt	03/13/25 19:43	10	WG2468095
MONTROSE-LAKE-S-SW-FILTERED	L1835142-02	44.0000.txt	03/13/25 19:56	10	WG2468095
CCV	IC-230313252009-2	45.0000.txt-2	03/13/25 20:09		
CCB	IC-230313252023-2	46.0000.txt-2	03/13/25 20:23		
DEEPWATER-S-SW	L1835142-03	47.0000.txt	03/13/25 20:36	10	WG2468095
DEEPWATER-S-SW-FILTERED	L1835142-04	48.0000.txt	03/13/25 20:50	10	WG2468095
DUP3-SW	L1835142-05	49.0000.txt	03/13/25 21:03	10	WG2468095
TRUMAN-S-SW	L1835142-06	50.0000.txt	03/13/25 21:16	5	WG2468095
TRUMAN-S-SW-FILTERED	L1835142-07	51.0000.txt	03/13/25 21:30	1	WG2468095
CCV	IC-230313252143	52.0000.txt	03/13/25 21:43		
CCB	IC-230313252157	53.0000.txt	03/13/25 21:57		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056A	**Analytical Run:**	031325

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	0	.1739		1	.9515	95.20
File ID:		03.0000.TXT			04.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056A	**Analytical Run:**	031325

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	5	4.6119	92.20	10	9.4823	94.80
File ID:		05.0000.TXT			06.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056A	**Analytical Run:**	031325

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	25	24.7862	99.10	50	50.0839	100
File ID:		07.0000.TXT			08.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835142	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056A	**Analytical Run:**	031325

Analyte	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%
SULFATE	100	101.0843	101
File ID:		09.0000.TXT	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1835142	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056A	**Analytical Run:**	031325

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
SULFATE	5	1	0.99971			0.073	-0.01	10.312

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

17-IN

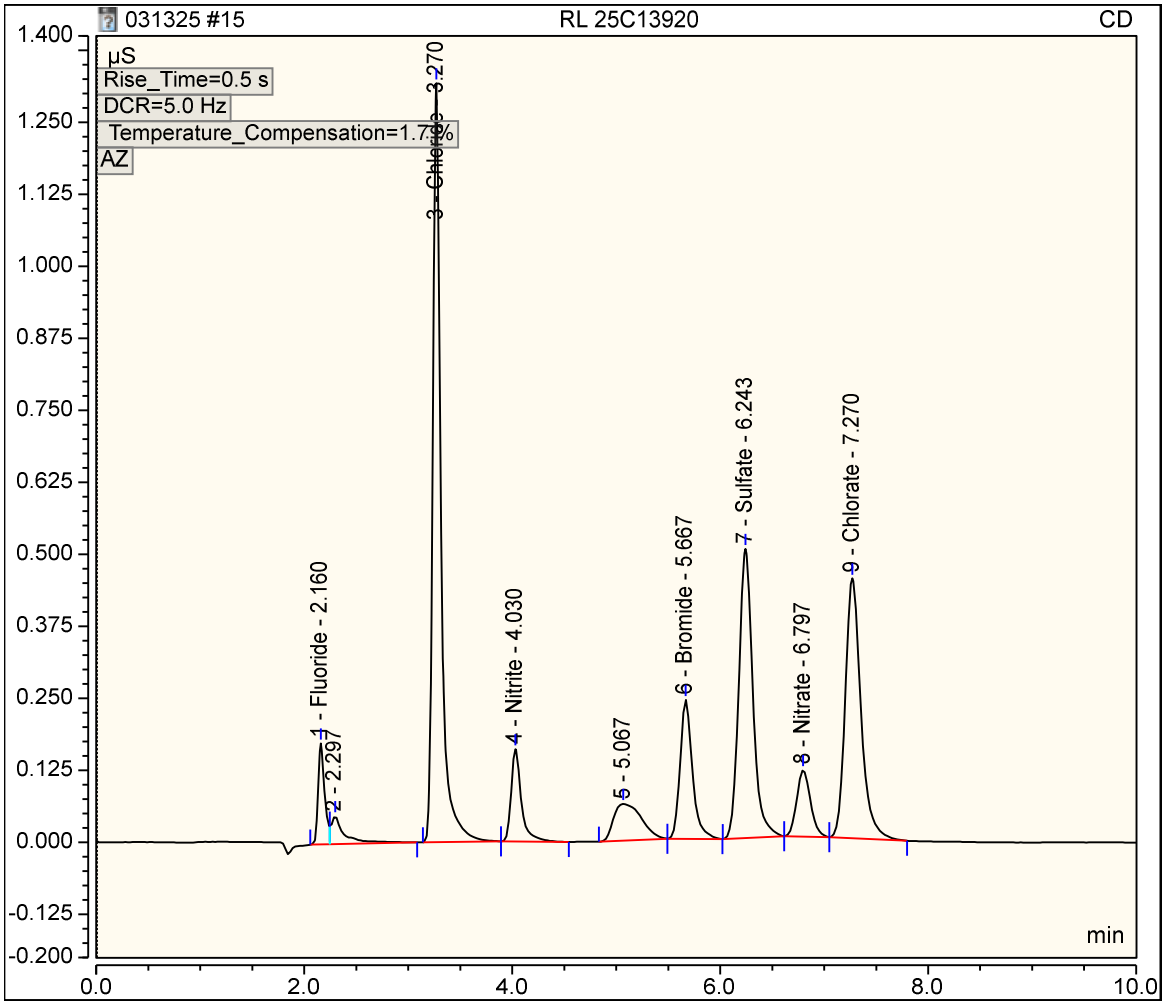
REPORTING LEVEL VERIFICATION
INORGANICS

SDG:	L1835142	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Lab File ID:	15.0000.txt	**Analysis date/time:**	03/13/25 08:40
Analytical Method:	9056A	**Sample ID:**	RL

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
SULFATE	1	1.2072	121	50 - 150

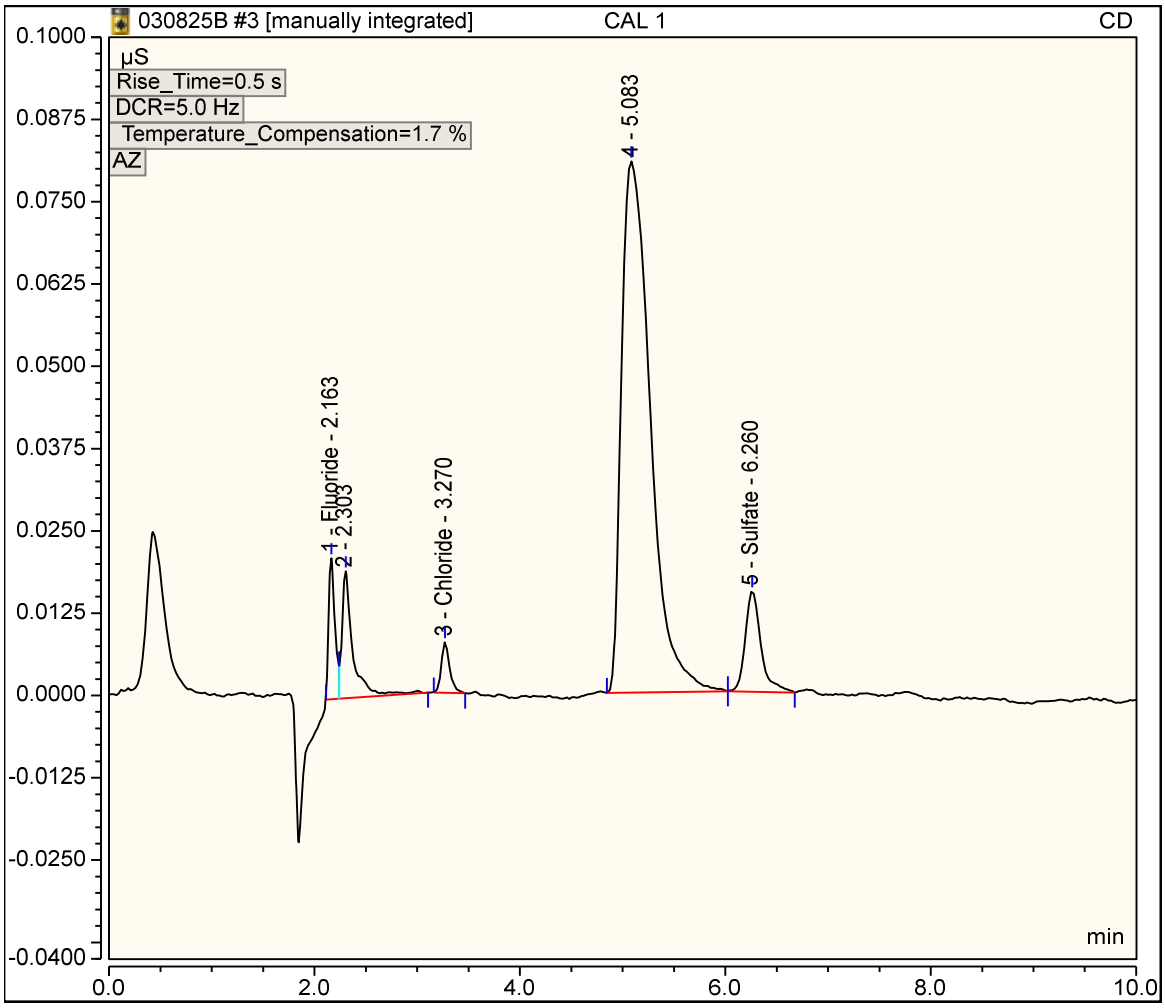
Sample Name:	**RL 25C13920**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 08:40**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.013	0.175	0.0805
3	3.27	Chloride	BMB	0.121	1.317	1.2541
4	4.03	Nitrite	BMB	0.018	0.160	0.1063
6	5.67	Bromide	BMB	0.033	0.241	1.1117
7	6.24	Sulfate	BMB	0.078	0.502	1.2072
8	6.80	Nitrate	BMB	0.018	0.115	0.1222
9	7.27	Chlorate	BMB	0.079	0.451	2.9393
		TOTAL:		0.36	2.96	6.82



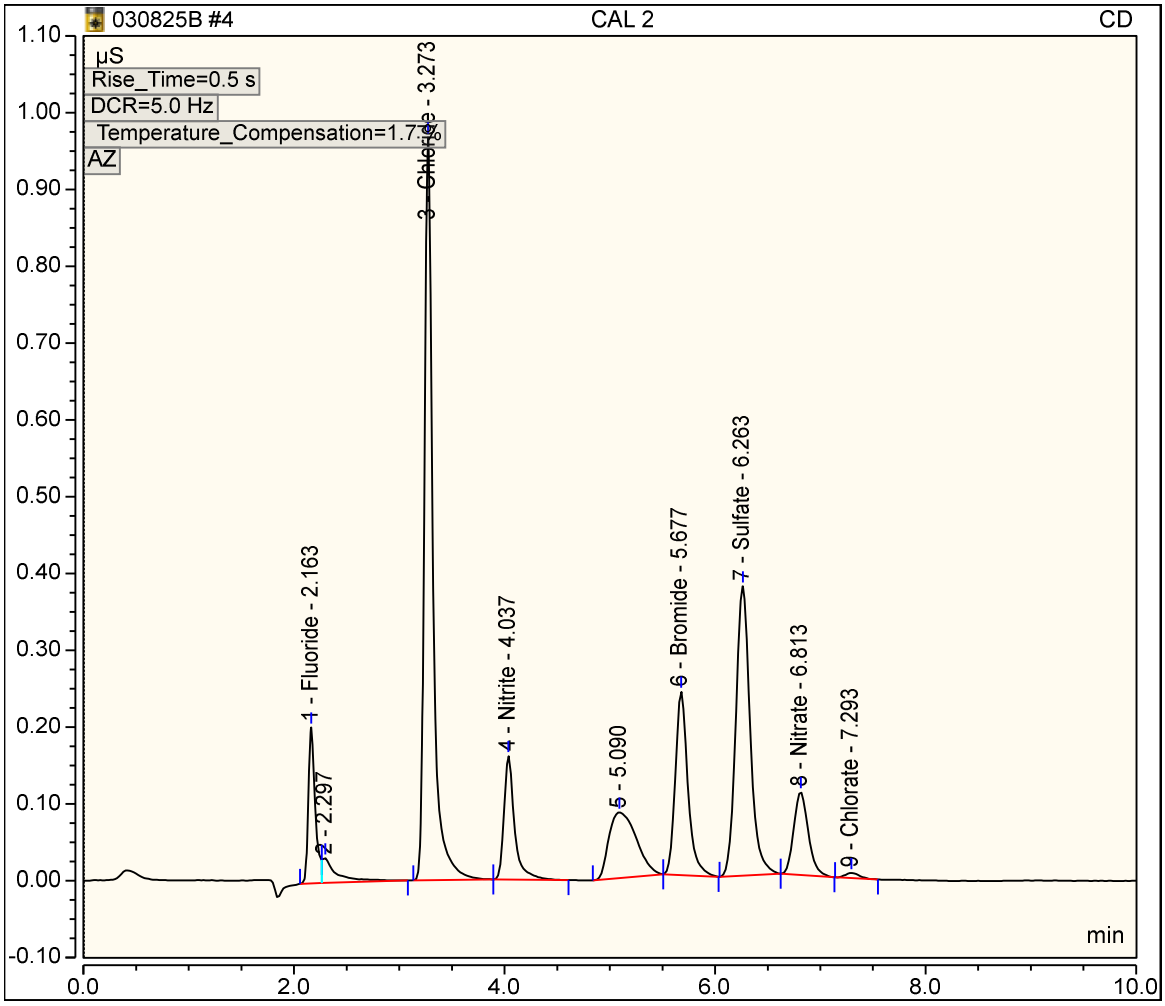
Sample Name:	**CAL 1**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	**25B27874 BA: MDM3917 03/09/25**
Inj. Date/Time:	**03/08/25 23:32**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM *	0.002	0.021	0.0127
3	3.27	Chloride	BMB	0.001	0.008	0.0967
5	6.26	Sulfate	BMB	0.003	0.015	0.1739
		TOTAL:		0.00	0.04	0.28



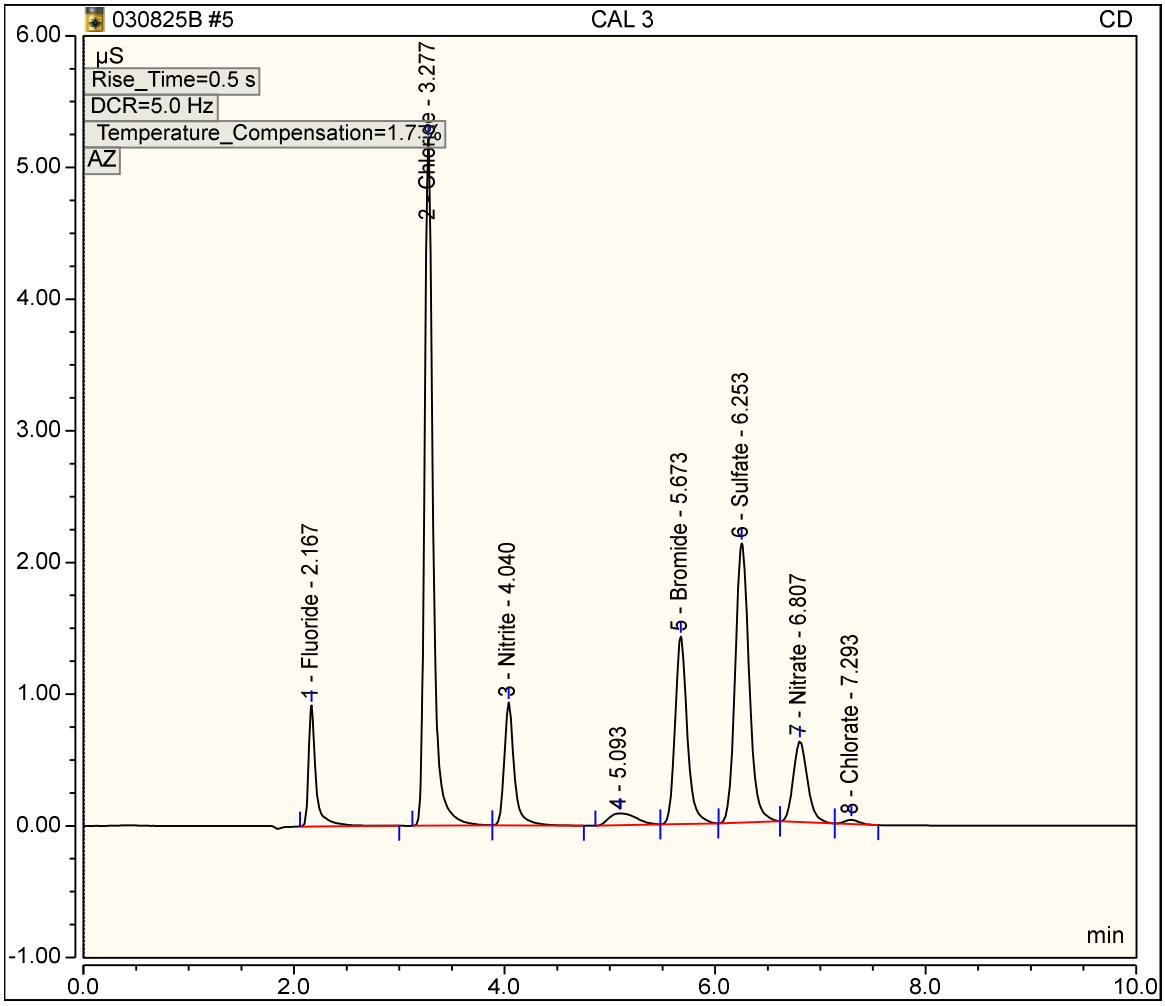
Sample Name:	**CAL 2**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/08/25 23:46**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.015	0.203	0.0969
3	3.27	Chloride	BMB	0.091	0.967	0.9678
4	4.04	Nitrite	BMB	0.019	0.161	0.1088
6	5.68	Bromide	BMB	0.033	0.239	1.1127
7	6.26	Sulfate	BMB	0.059	0.377	0.9515
8	6.81	Nitrate	BMB	0.017	0.108	0.1208
9	7.29	Chlorate	BMB	0.001	0.007	0.0683
		TOTAL:		0.24	2.06	3.43



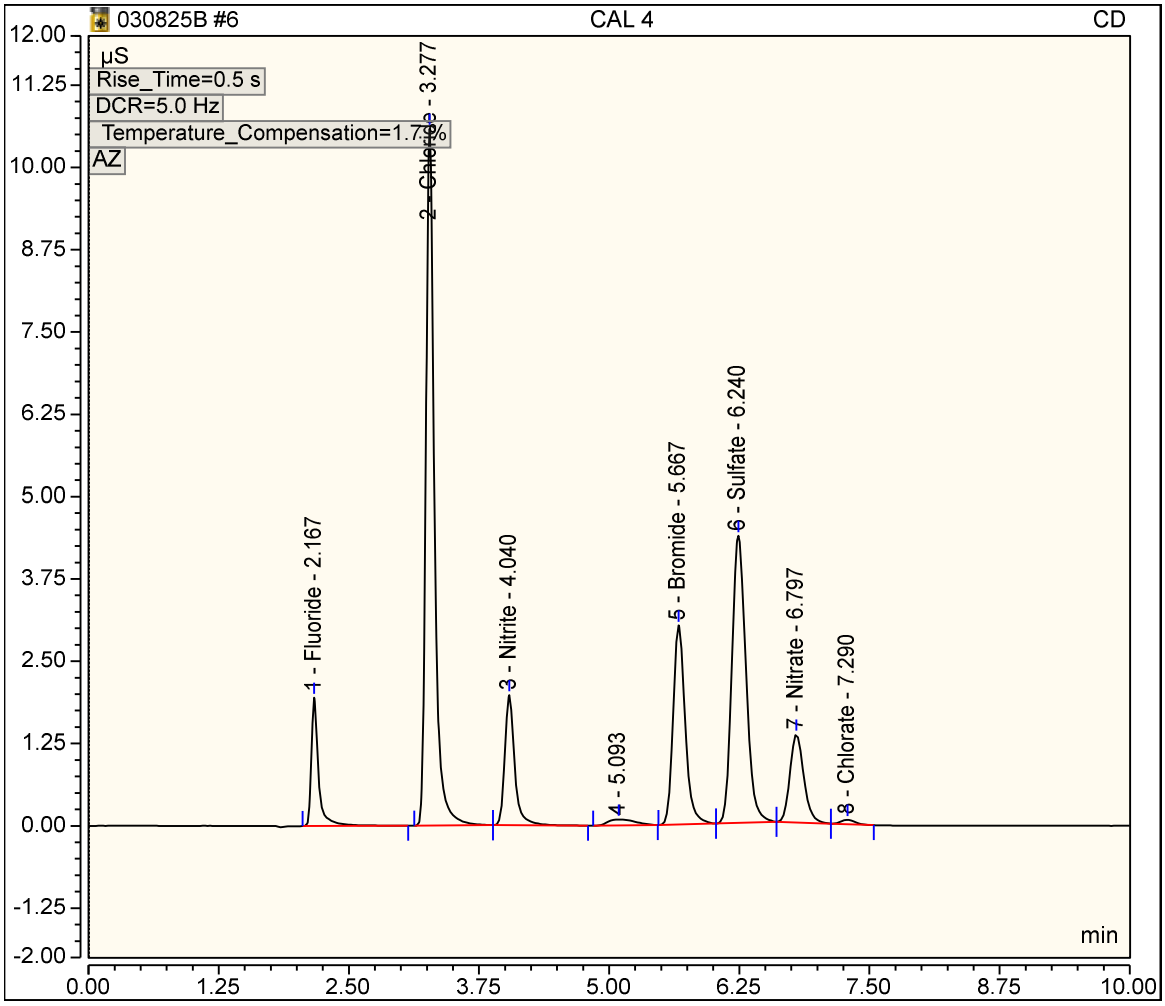
Sample Name:	**CAL 3**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/08/25 23:59**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.076	0.919	0.4662
2	3.28	Chloride	BMB	0.489	5.213	4.7954
3	4.04	Nitrite	BMB	0.103	0.932	0.4694
5	5.67	Bromide	BMB	0.191	1.425	4.6691
6	6.25	Sulfate	BMB	0.327	2.121	4.6119
7	6.81	Nitrate	BMB	0.096	0.616	0.4477
8	7.29	Chlorate	BMB	0.005	0.033	0.2212
		TOTAL:		1.29	11.26	15.68



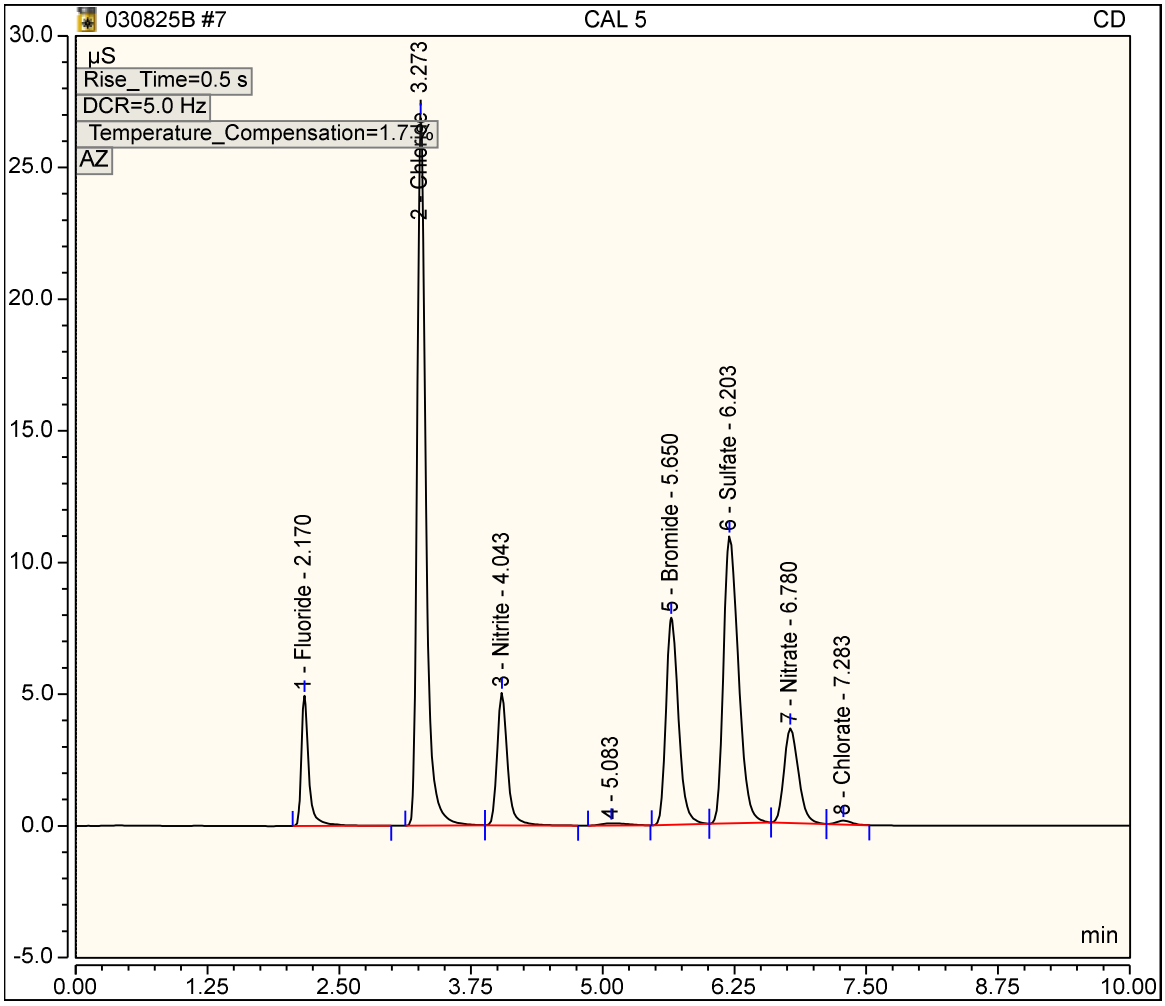
Sample Name:	**CAL 4**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/09/25 00:13**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.158	1.950	0.9682
2	3.28	Chloride	BMB	1.003	10.585	9.7363
3	4.04	Nitrite	BMB	0.218	1.978	0.9651
5	5.67	Bromide	BMB	0.407	3.023	9.5270
6	6.24	Sulfate	BMB	0.682	4.360	9.4823
7	6.80	Nitrate	BMB	0.207	1.335	0.9085
8	7.29	Chlorate	BMB	0.011	0.069	0.4284
		TOTAL:		2.69	23.30	32.02



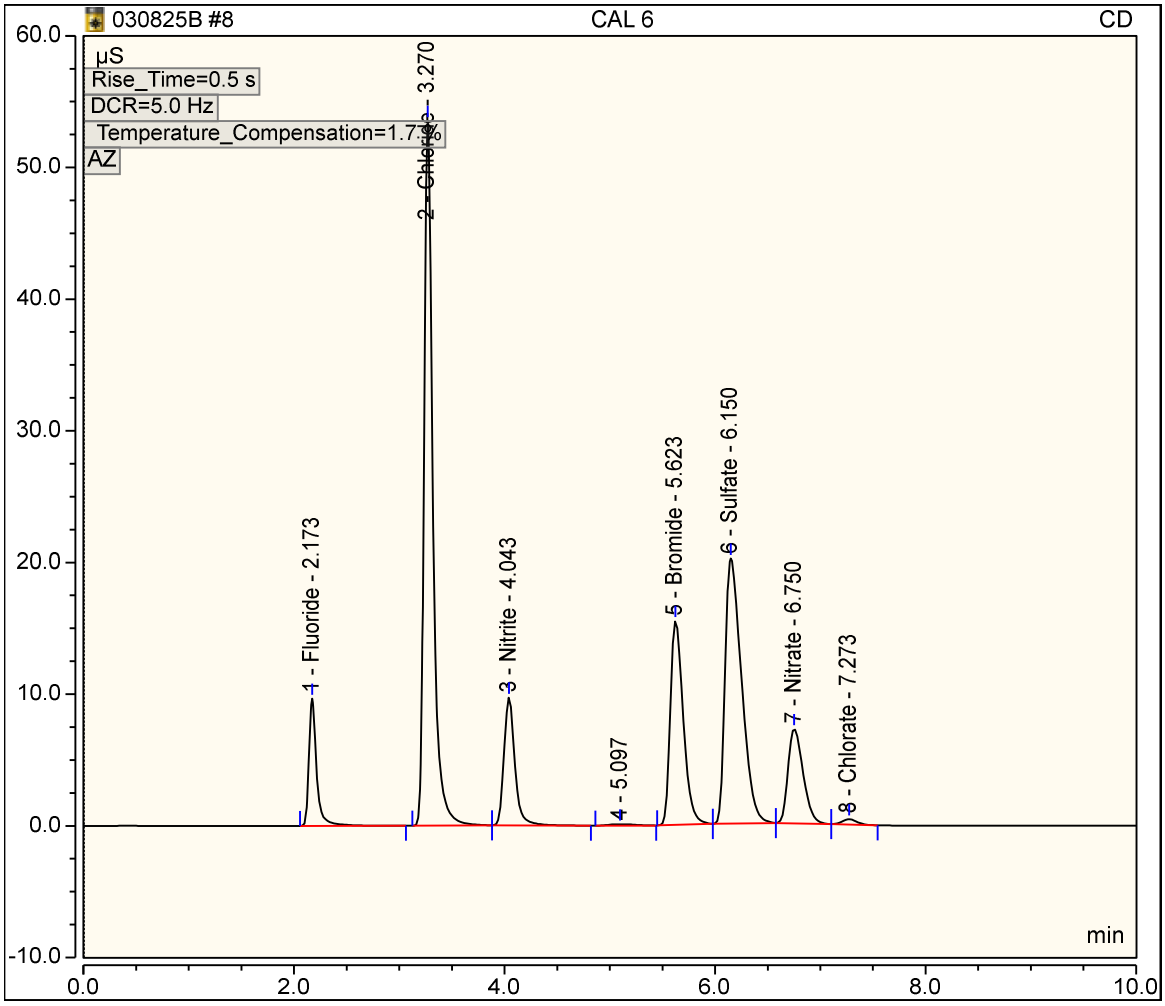
Sample Name:	**CAL 5**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/09/25 00:26**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.407	4.948	2.4812
2	3.27	Chloride	BMB	2.583	26.868	24.9242
3	4.04	Nitrite	BMB	0.574	5.036	2.4971
5	5.65	Bromide	BMB	1.084	7.869	24.7532
6	6.20	Sulfate	BMB	1.800	10.905	24.7862
7	6.78	Nitrate	BMB	0.572	3.588	2.4227
8	7.28	Chlorate	BMB	0.022	0.143	0.8608
		TOTAL:		7.04	59.36	82.73



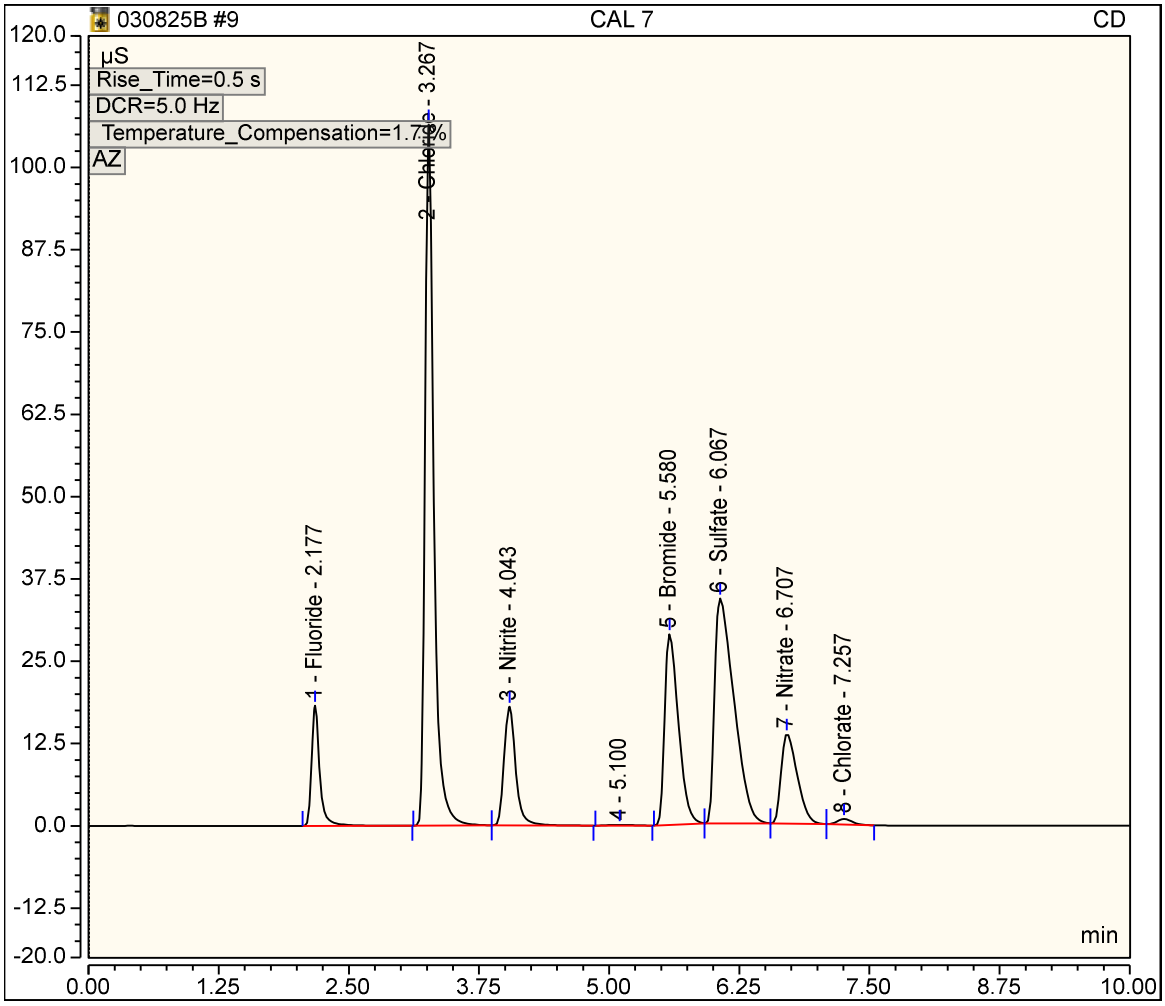
Sample Name:	**CAL 6**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/09/25 00:39**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.824	9.674	5.0232
2	3.27	Chloride	BMB	5.191	53.533	50.0031
3	4.04	Nitrite	BMB	1.162	9.709	5.0308
5	5.62	Bromide	BMB	2.212	15.500	50.1316
6	6.15	Sulfate	BMB	3.647	20.131	50.0839
7	6.75	Nitrate	BMB	1.191	7.171	4.9935
8	7.27	Chlorate	BMB	0.065	0.404	2.4358
		TOTAL:		14.29	116.12	167.70



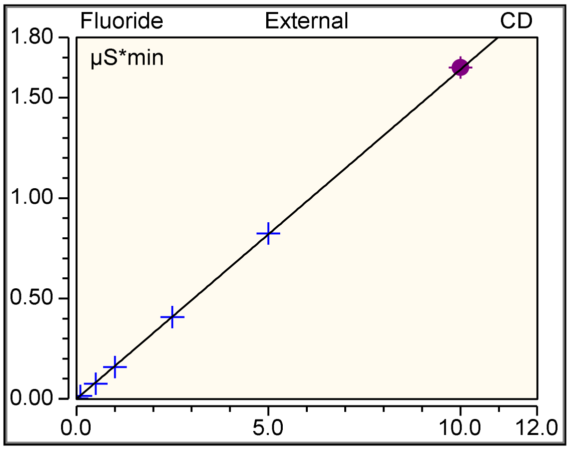
Sample Name:	**CAL 7**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/09/25 00:53**	*Run Time:*	**10.00**

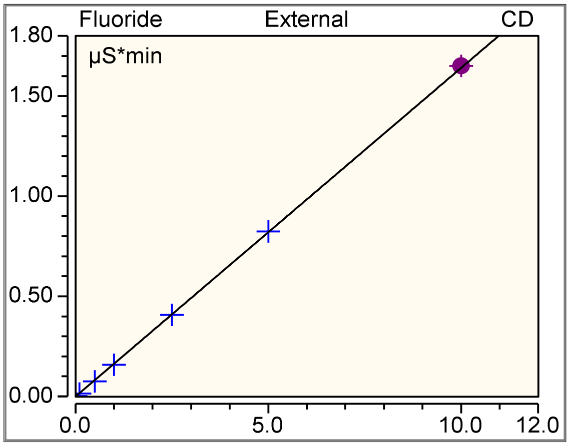
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.18	Fluoride	BMB	1.651	18.248	10.0643
2	3.27	Chloride	BMB	10.450	106.506	100.5731
3	4.04	Nitrite	BMB	2.324	18.024	10.0289
5	5.58	Bromide	BMB	4.465	28.993	100.8065
6	6.07	Sulfate	BMB	7.371	34.168	101.0843
7	6.71	Nitrate	BMB	2.446	13.608	10.2070
8	7.26	Chlorate	BMB	0.142	0.853	5.2855
		TOTAL:		28.85	220.40	338.05

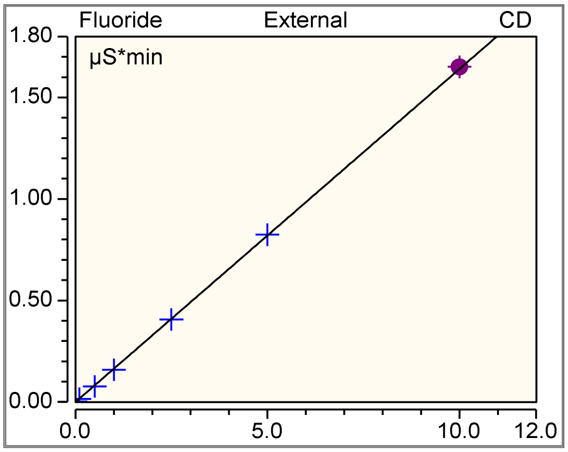


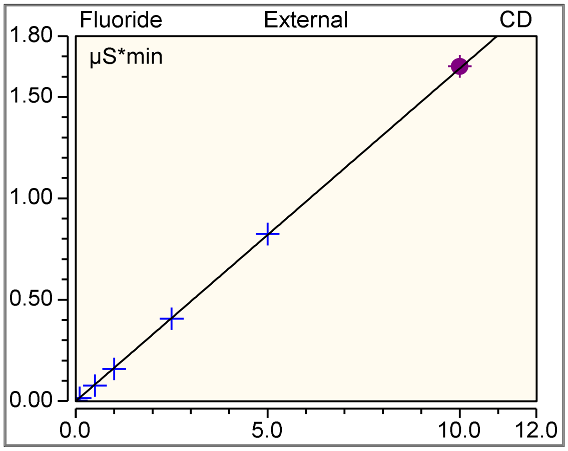
Calibration Batch Report

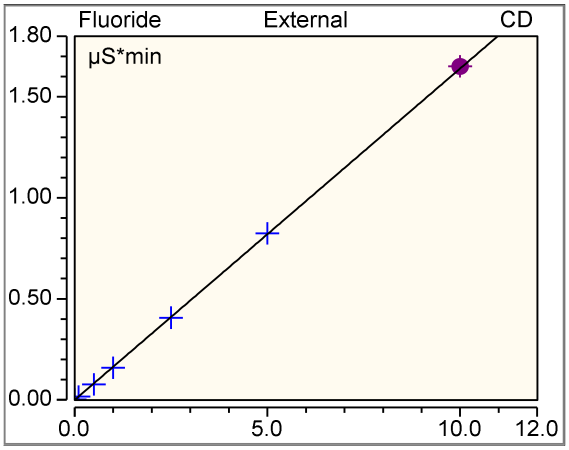
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Program:	**Anions - IC23**	Operator:	**WETLABIC23**
Inj. Date/Time:	**03/09/25 00:53**	Run Time:	**10.00**

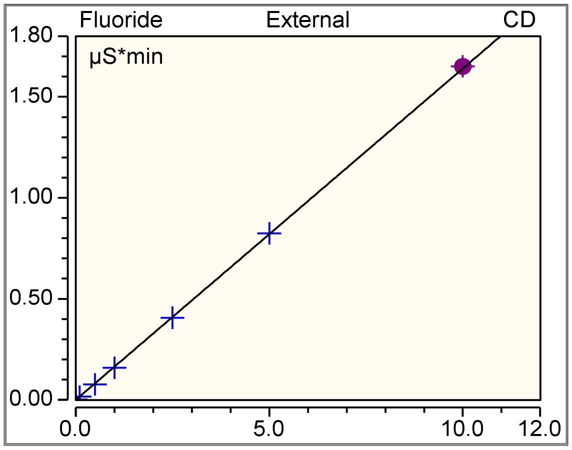




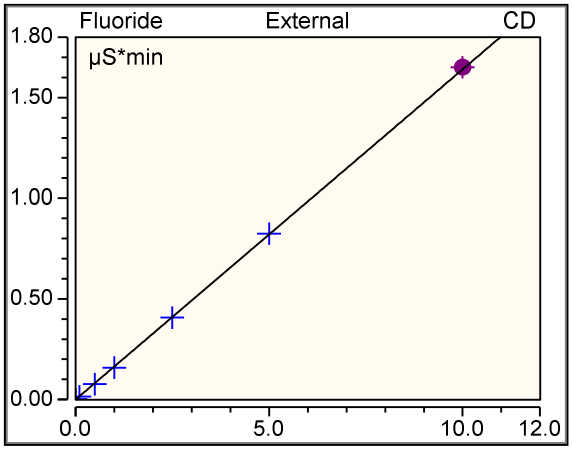








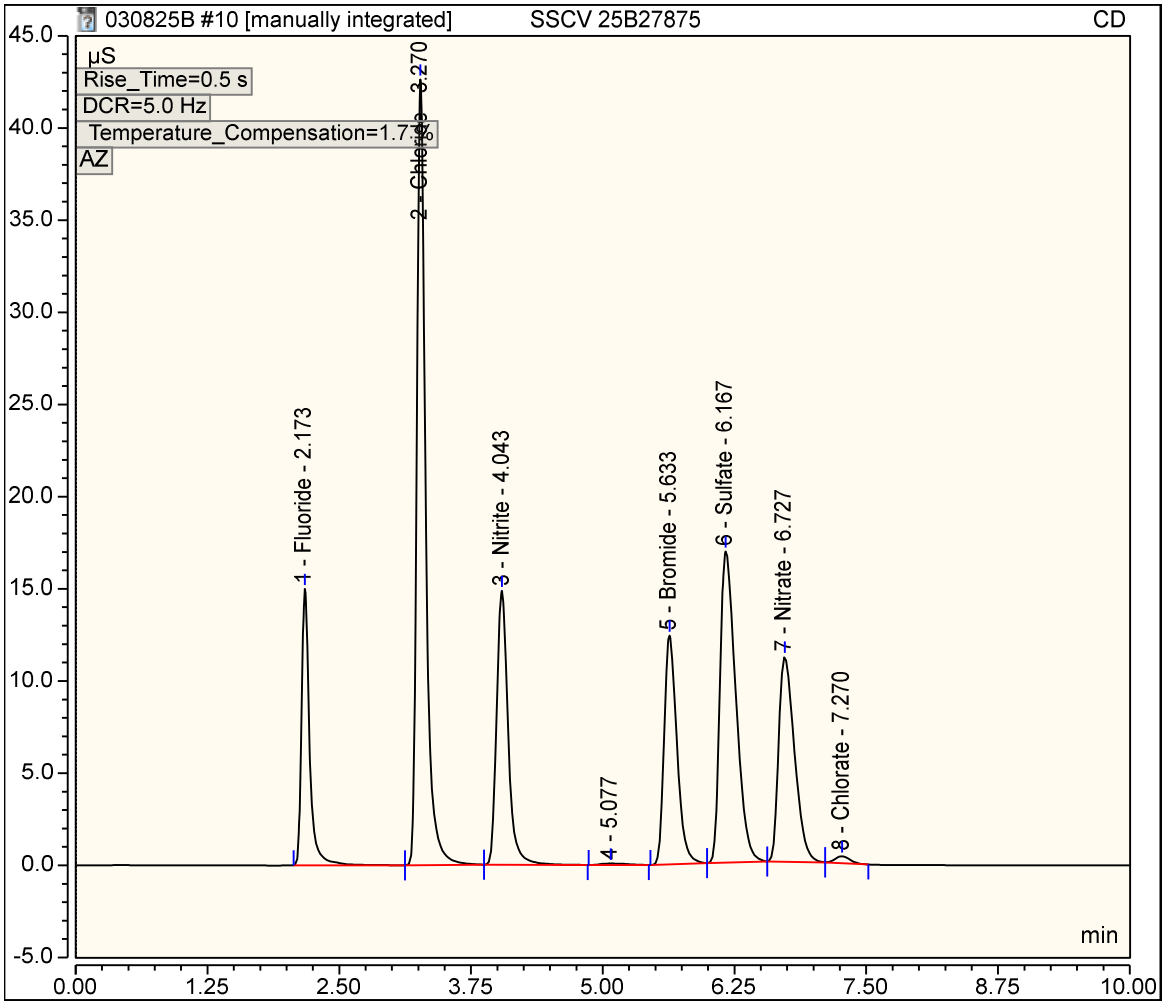
Sequence:	**030825B**	*Inj. Vol.:*	**10.0**
Program:	**Anions - IC23**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/09/25 00:53**	*Run Time:*	**10.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.18	Fluoride	, WithOffset,	7	-0.001	0.164	0.000	99.984
2	3.27	Chloride	, WithOffset,	7	-0.009	0.104	0.000	99.992
3	4.04	Nitrite	, WithOffset,	6	-0.007	0.232	0.000	99.987
5	5.58	Bromide	, WithOffset,	6	-0.016	0.044	0.000	99.980
6	6.07	Sulfate	, WithOffset,	7	-0.010	0.073	0.000	99.971
7	6.71	Nitrate	, WithOffset,	6	-0.012	0.241	0.000	99.925
8	7.26	Chlorate	, WithOffset,	6	-0.001	0.027	0.000	99.642
AVERAGE:					-0.0079	0.1265	0.0000	99.9257

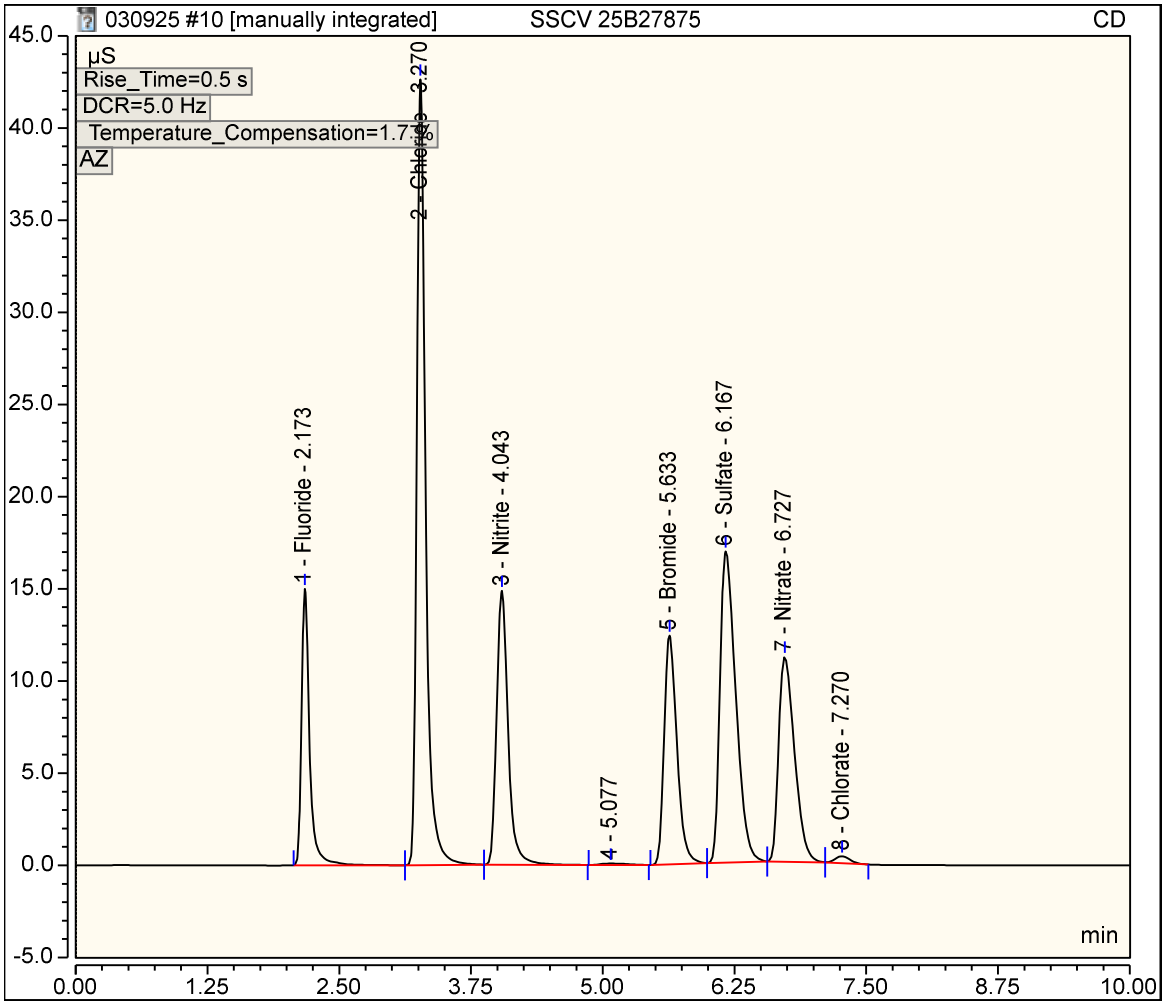
Sample Name:	**SSCV 25B27875**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	**BA: MDM3917 03/09/25**
Inj. Date/Time:	**03/09/25 01:06**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMb*	1.327	15.007	8.0915
2	3.27	Chloride	bMB*	4.133	42.621	39.8348
3	4.04	Nitrite	BMB	1.876	14.854	8.1004
5	5.63	Bromide	BMB	1.741	12.417	39.5295
6	6.17	Sulfate	BMB	2.939	16.878	40.3796
7	6.73	Nitrate	BMB	1.941	11.128	8.1098
8	7.27	Chlorate	BMB	0.060	0.378	2.2565
		TOTAL:		14.02	113.28	146.30



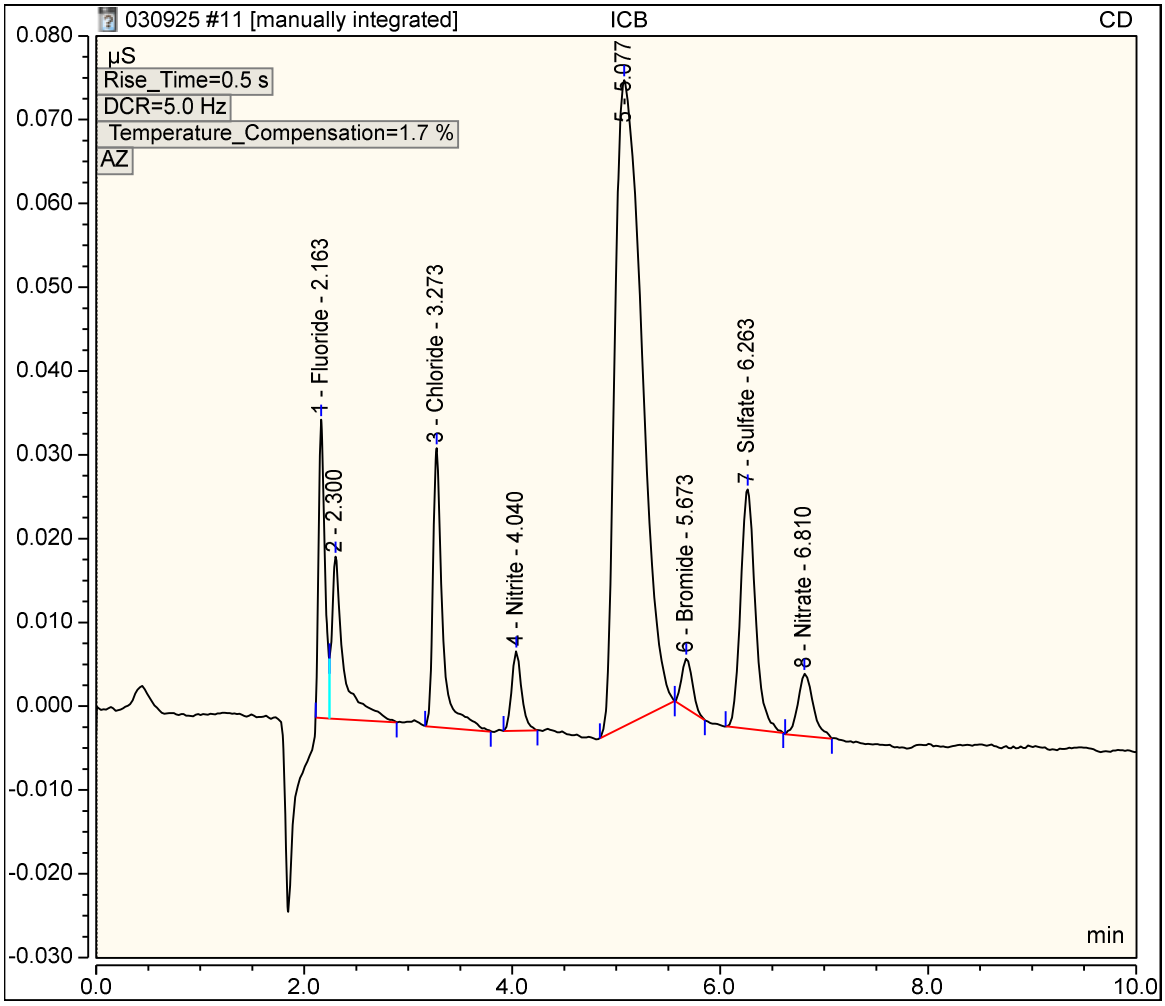
Sample Name:	**SSCV 25B27875**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	**BA: MDM3917 03/09/25**
Inj. Date/Time:	**03/09/25 01:06**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMb*	1.327	15.007	8.0915
2	3.27	Chloride	bMB*	4.133	42.621	39.8348
3	4.04	Nitrite	BMB	1.876	14.854	8.1004
5	5.63	Bromide	BMB	1.741	12.417	39.5295
6	6.17	Sulfate	BMB	2.939	16.878	40.3796
7	6.73	Nitrate	BMB	1.941	11.128	8.1098
8	7.27	Chlorate	BMB	0.060	0.378	2.2565
		TOTAL:		14.02	113.28	146.30



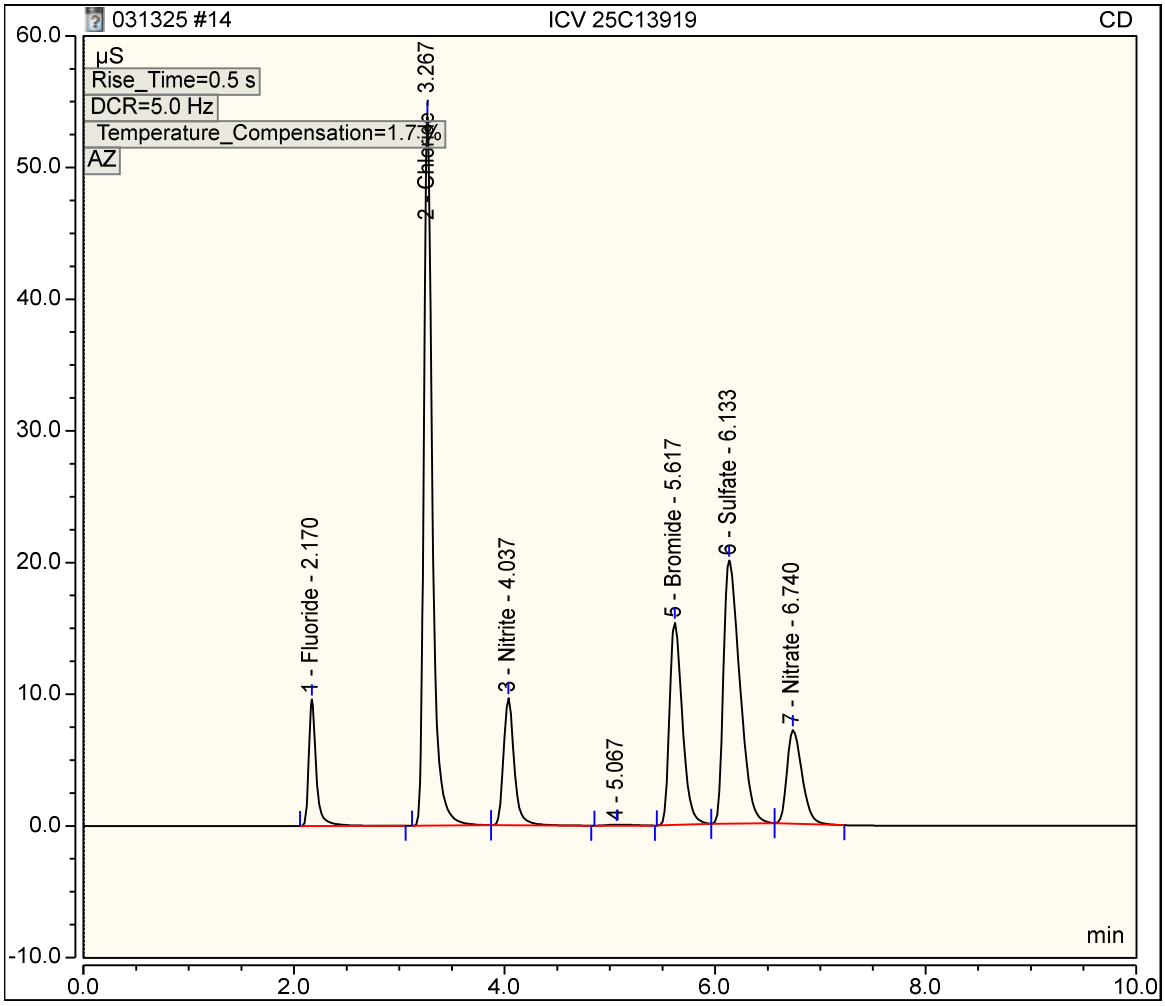
Sample Name:	**ICB**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	**BA: MDM3917 03/09/25**
Inj. Date/Time:	**03/09/25 01:20**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM *	0.003	0.036	0.0188
3	3.27	Chloride	BMB	0.004	0.033	0.1243
4	4.04	Nitrite	BMB	0.001	0.009	0.0328
6	5.67	Bromide	BMB	0.001	0.006	0.3836
7	6.26	Sulfate	BMB	0.005	0.029	0.2010
8	6.81	Nitrate	BMB*	0.001	0.007	0.0542
		TOTAL:		0.01	0.12	0.81



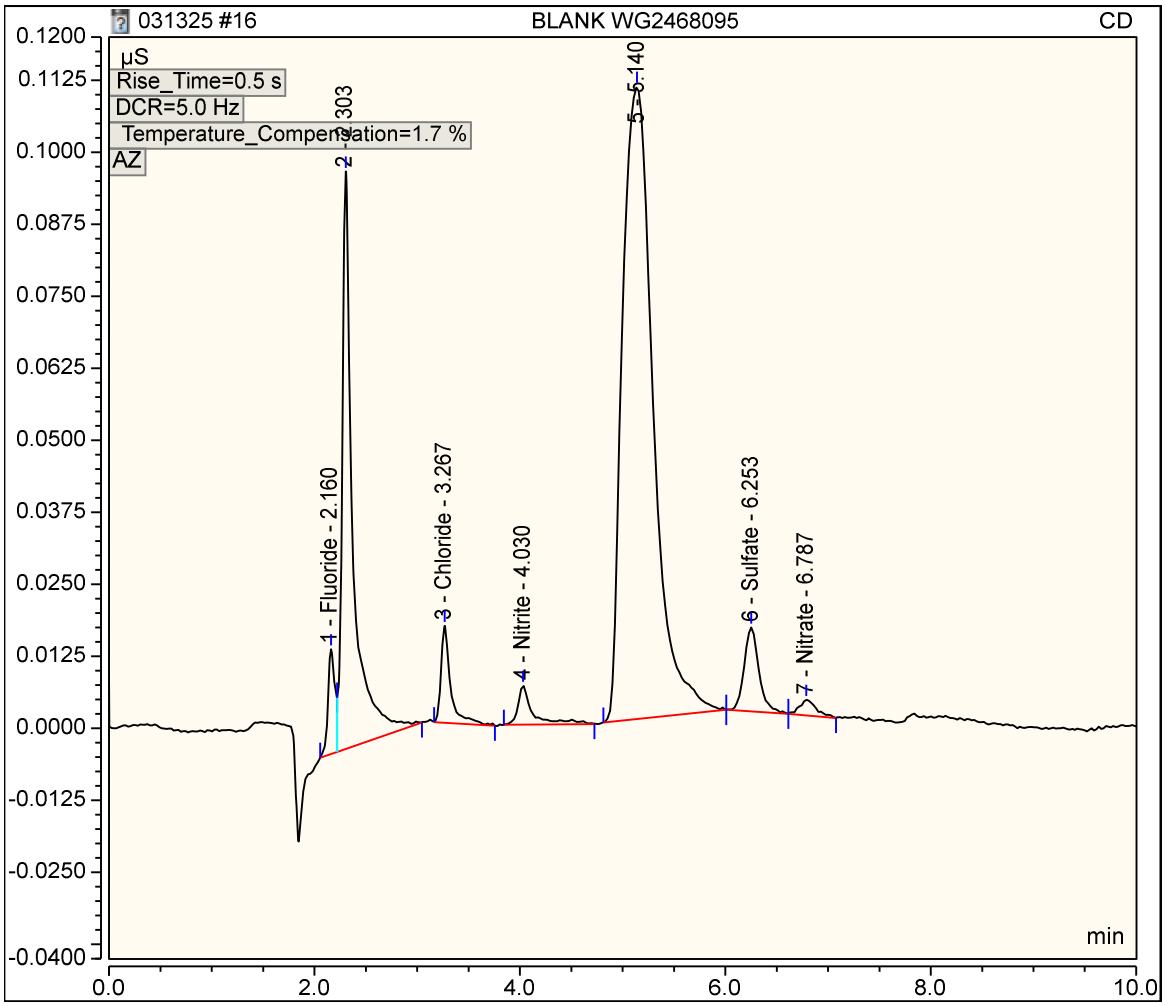
Sample Name:	**ICV 25C13919**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 08:27**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.797	9.625	4.8626
2	3.27	Chloride	BMB	5.125	53.793	49.3684
3	4.04	Nitrite	BMB	1.142	9.677	4.9411
5	5.62	Bromide	BMB	2.172	15.372	49.2178
6	6.13	Sulfate	BMB	3.591	19.979	49.3126
7	6.74	Nitrate	BMB	1.181	7.113	4.9545
		TOTAL:		14.01	115.56	162.66



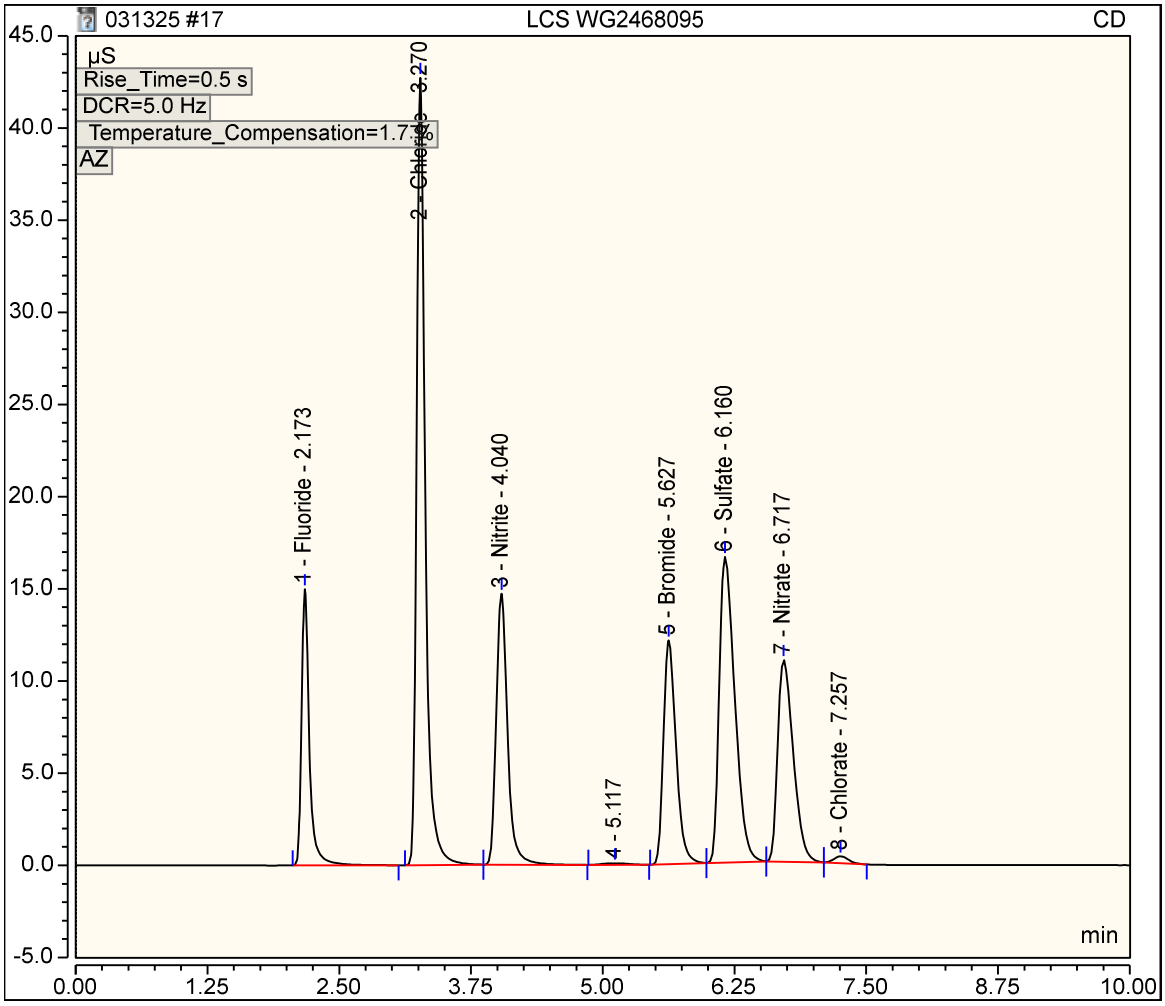
Sample Name:	**BLANK WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 13:40**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.001	0.018	0.0120
3	3.27	Chloride	BMB	0.002	0.017	0.1072
4	4.03	Nitrite	BMB	0.001	0.007	0.0333
6	6.25	Sulfate	BMB	0.002	0.015	0.1700
7	6.79	Nitrate	BMB	0.001	0.003	0.0510
		TOTAL:		0.01	0.06	0.37



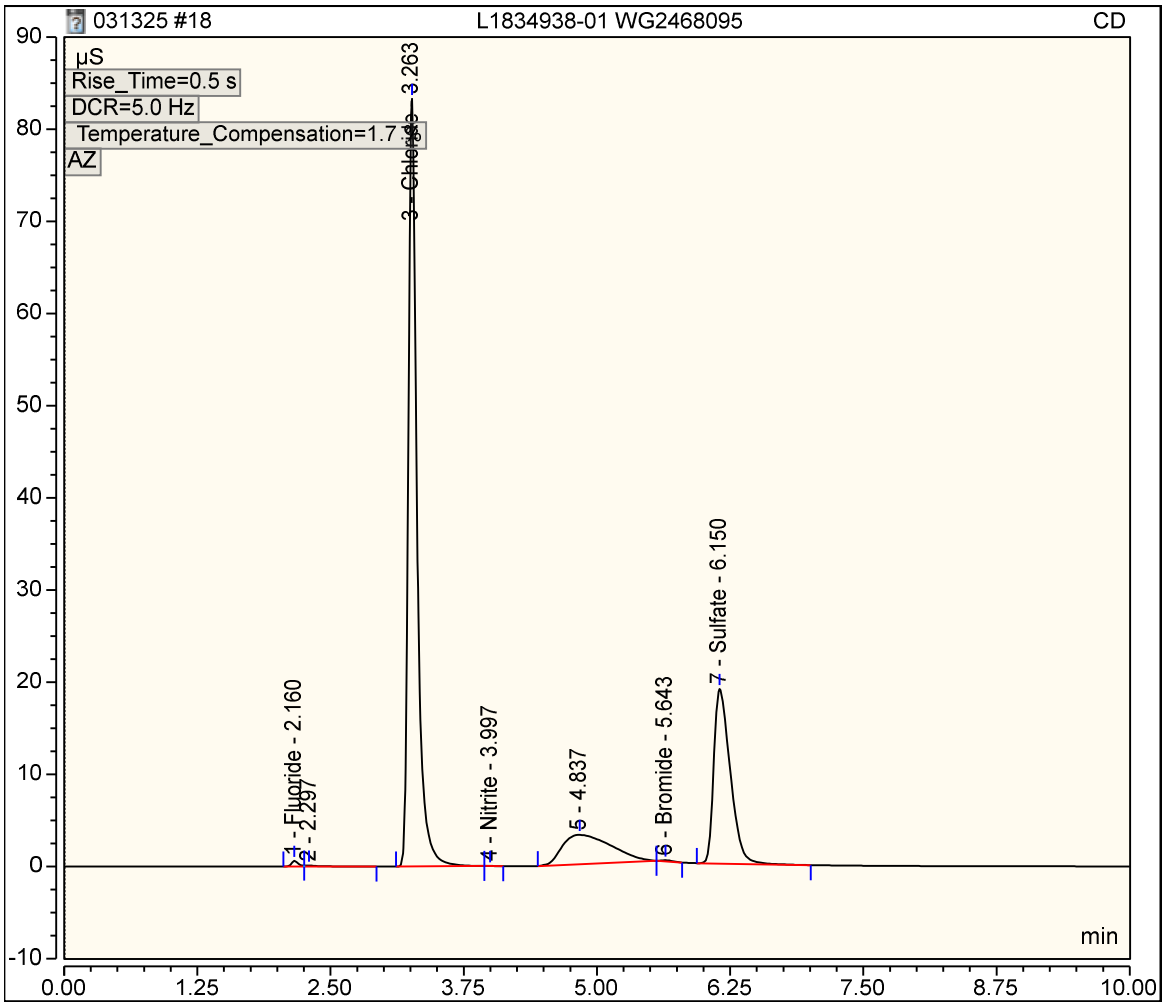
Sample Name:	**LCS WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 13:54**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	1.291	14.989	7.8690
2	3.27	Chloride	BMB	4.044	42.707	38.9810
3	4.04	Nitrite	BMB	1.830	14.695	7.9036
5	5.63	Bromide	BMB	1.679	12.141	38.1313
6	6.16	Sulfate	BMB	2.844	16.584	39.0899
7	6.72	Nitrate	BMB	1.877	10.943	7.8465
8	7.26	Chlorate	BMB	0.058	0.370	2.1778
		TOTAL:		13.62	112.43	142.00



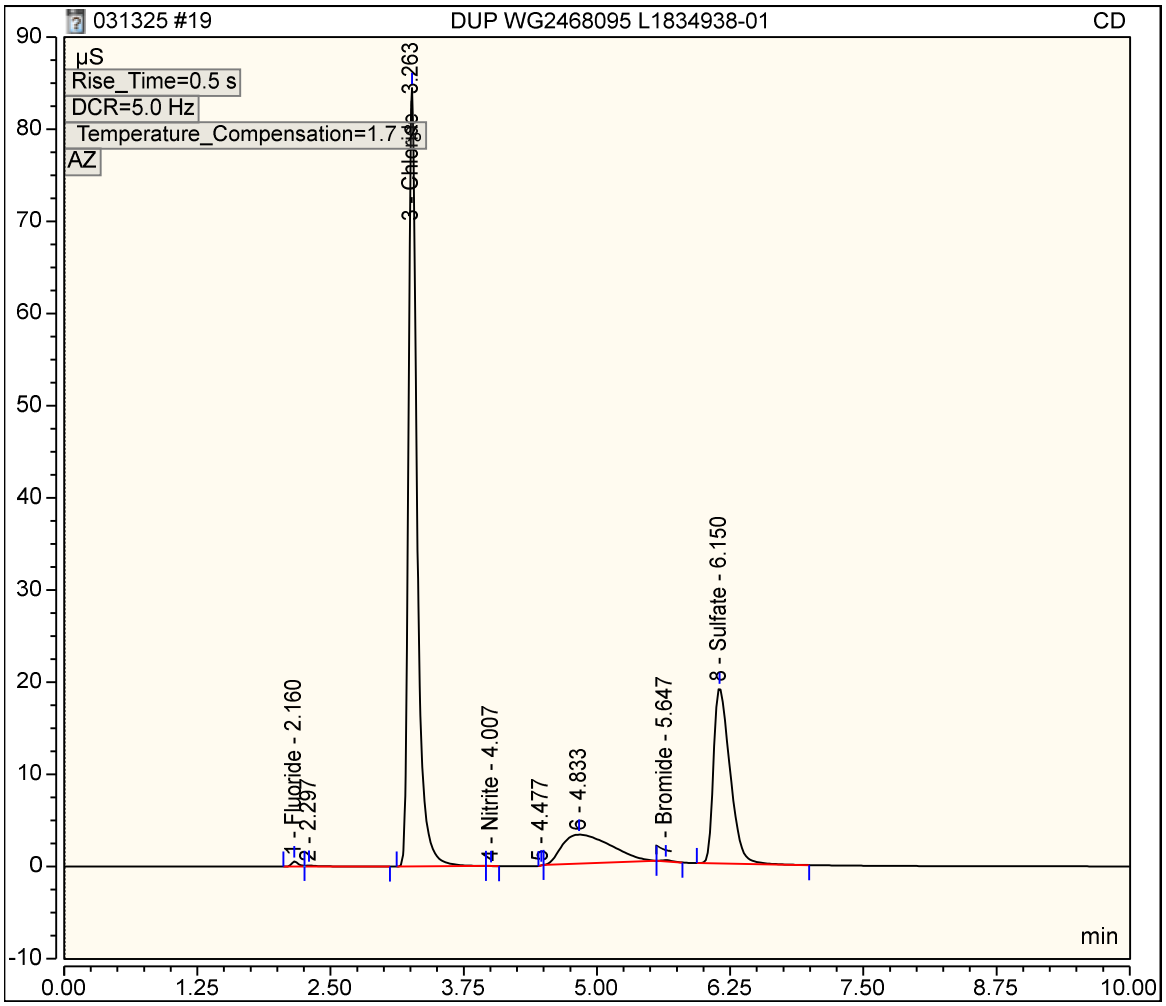
Sample Name:	**L1834938-01 WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 14:07**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.045	0.624	0.2795
3	3.26	Chloride	BMB	7.905	83.273	76.1040
4	4.00	Nitrite	BMB	0.001	0.010	0.0316
6	5.64	Bromide	BMB	0.015	0.130	0.6956
7	6.15	Sulfate	BMB	3.395	18.942	46.6302
		TOTAL:		11.36	102.98	123.74



Sample Name:	**DUP WG2468095 L1834938-01**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 14:21**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.042	0.576	0.2589
3	3.26	Chloride	BMB	7.978	84.460	76.8039
4	4.01	Nitrite	BMB	0.000	0.004	0.0295
7	5.65	Bromide	BMB	0.014	0.131	0.6929
8	6.15	Sulfate	BMB	3.423	19.097	47.0113
		TOTAL:		11.46	104.27	124.80

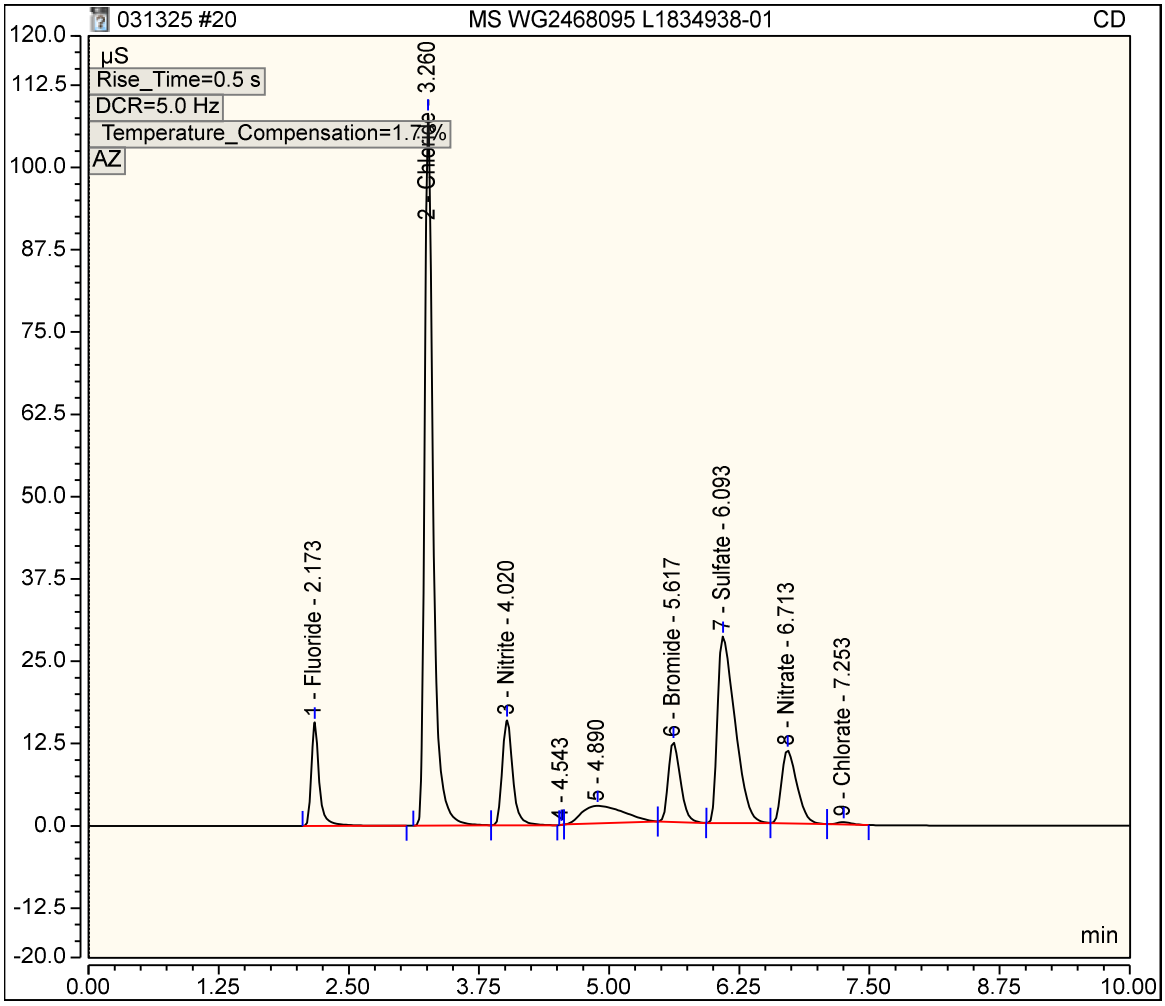


Export for Tree IC-23/Integration

PeakNet 6 (r) Dionex 2001
Version 7.2.9.11323

Sample Name:	**MS WG2468095 L1834938-01**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 14:34**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	1.384	15.708	8.4352
2	3.26	Chloride	BMB	10.260	108.059	98.7524
3	4.02	Nitrite	BMB	1.878	15.922	8.1112
6	5.62	Bromide	BMB	1.644	12.168	37.3538
7	6.09	Sulfate	BMB	5.553	28.331	76.1808
8	6.71	Nitrate	BMB	1.905	11.085	7.9606
9	7.25	Chlorate	BMB	0.057	0.364	2.1404
		TOTAL:		22.68	191.64	238.93

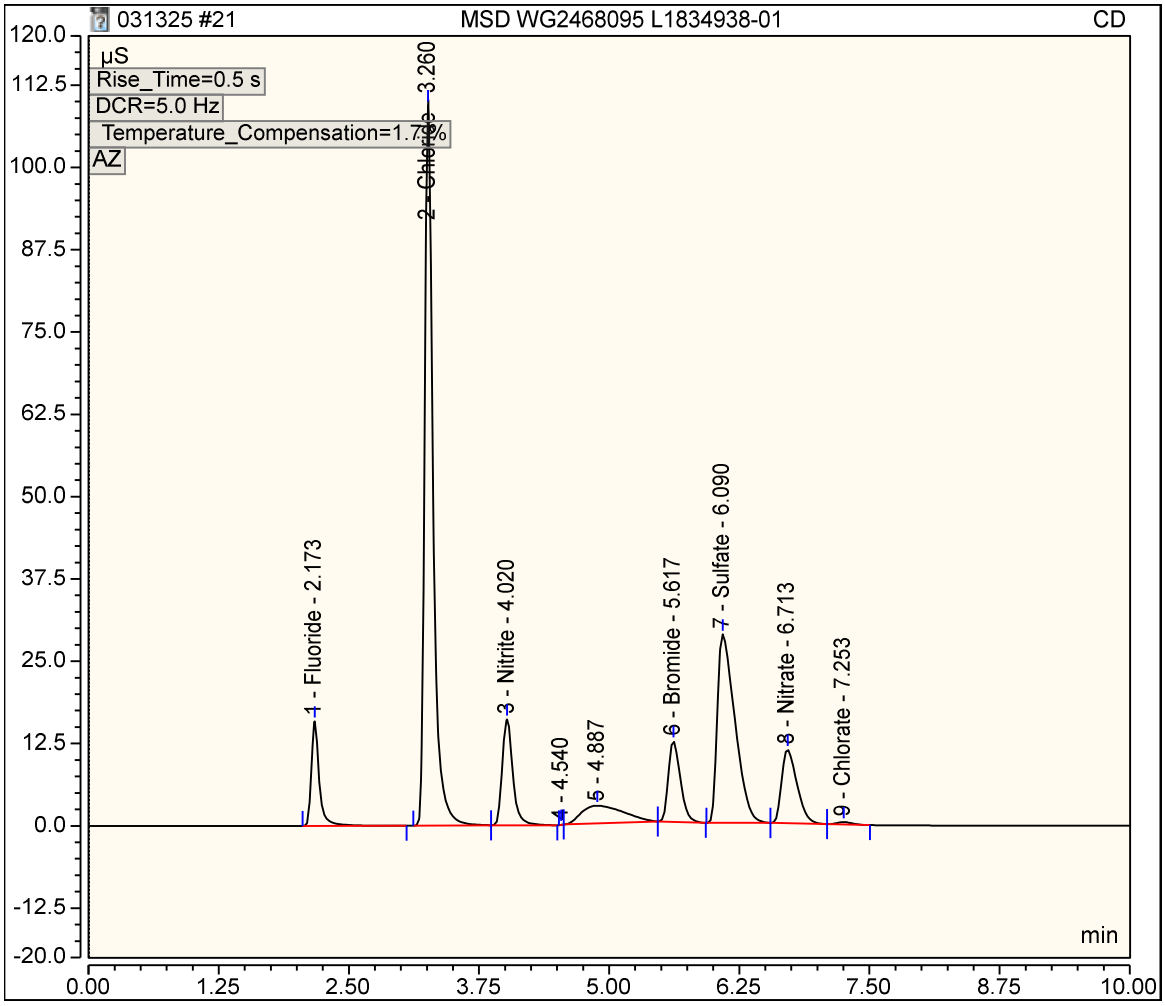


Export for Tree IC-23/Integration

PeakNet 6 (r) Dionex 2001
Version 7.2.9.11323

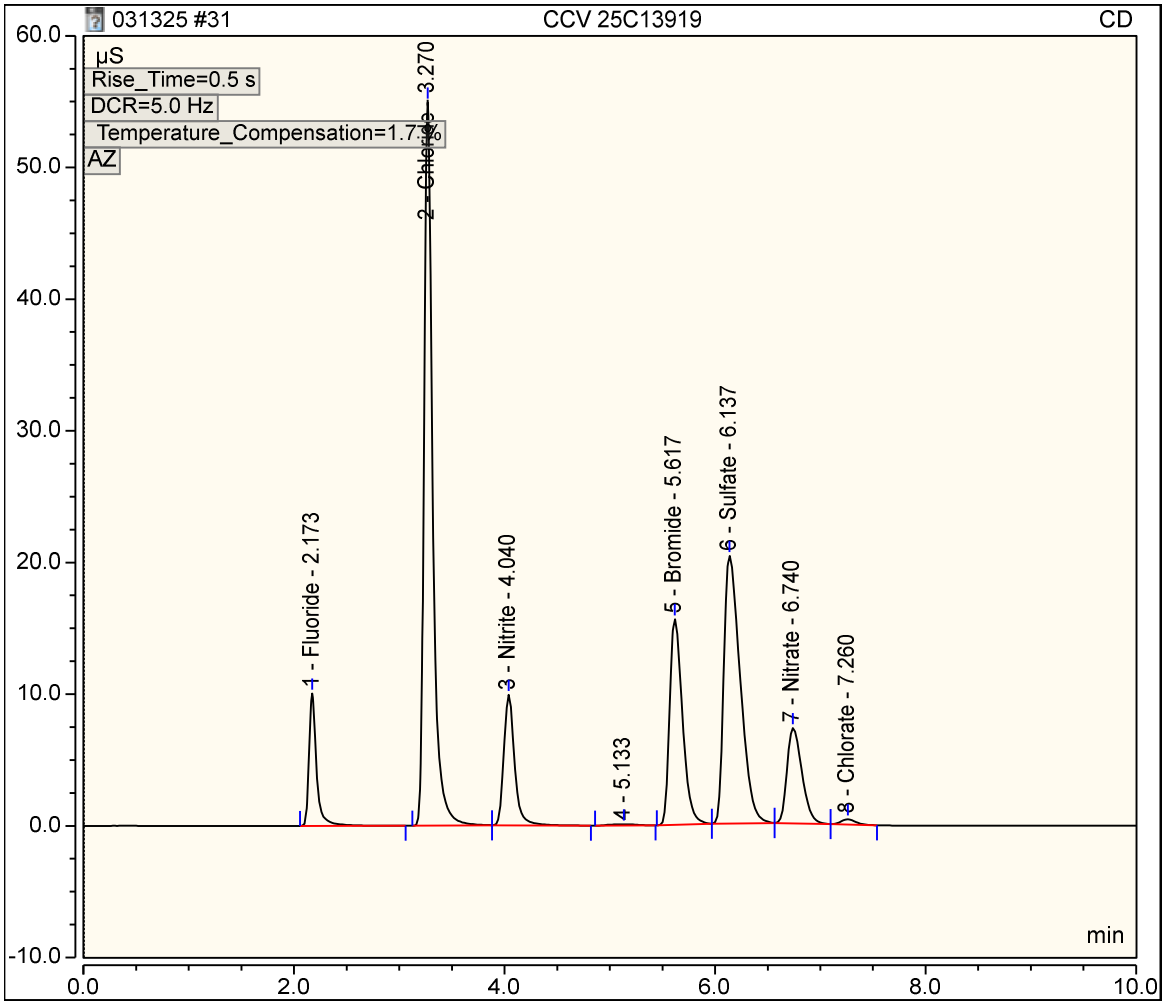
Sample Name:	**MSD WG2468095 L1834938-01**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 14:47**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	1.397	15.889	8.5144
2	3.26	Chloride	BMB	10.380	109.437	99.9061
3	4.02	Nitrite	BMB	1.898	16.079	8.1949
6	5.62	Bromide	BMB	1.662	12.291	37.7481
7	6.09	Sulfate	BMB	5.631	28.628	77.2457
8	6.71	Nitrate	BMB	1.921	11.191	8.0295
9	7.25	Chlorate	BMB	0.058	0.373	2.1928
		TOTAL:		22.95	193.89	241.83



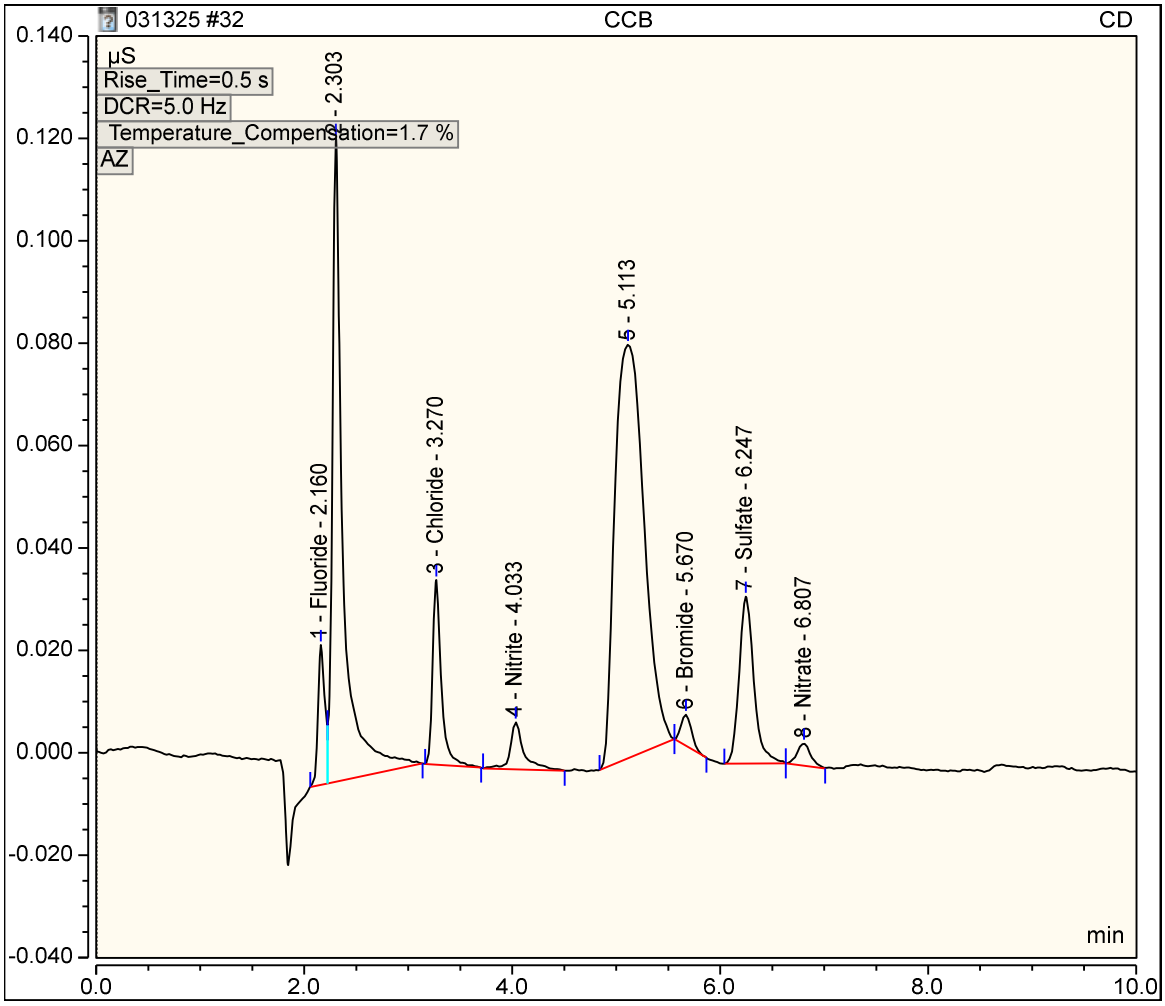
Sample Name:	**CCV 25C13919**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 17:02**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.838	10.057	5.1119
2	3.27	Chloride	BMB	5.239	54.929	50.4626
3	4.04	Nitrite	BMB	1.174	9.917	5.0807
5	5.62	Bromide	BMB	2.211	15.628	50.1092
6	6.14	Sulfate	BMB	3.670	20.328	50.3940
7	6.74	Nitrate	BMB	1.188	7.241	4.9848
8	7.26	Chlorate	BMB	0.062	0.393	2.3387
		TOTAL:		14.38	118.49	168.48



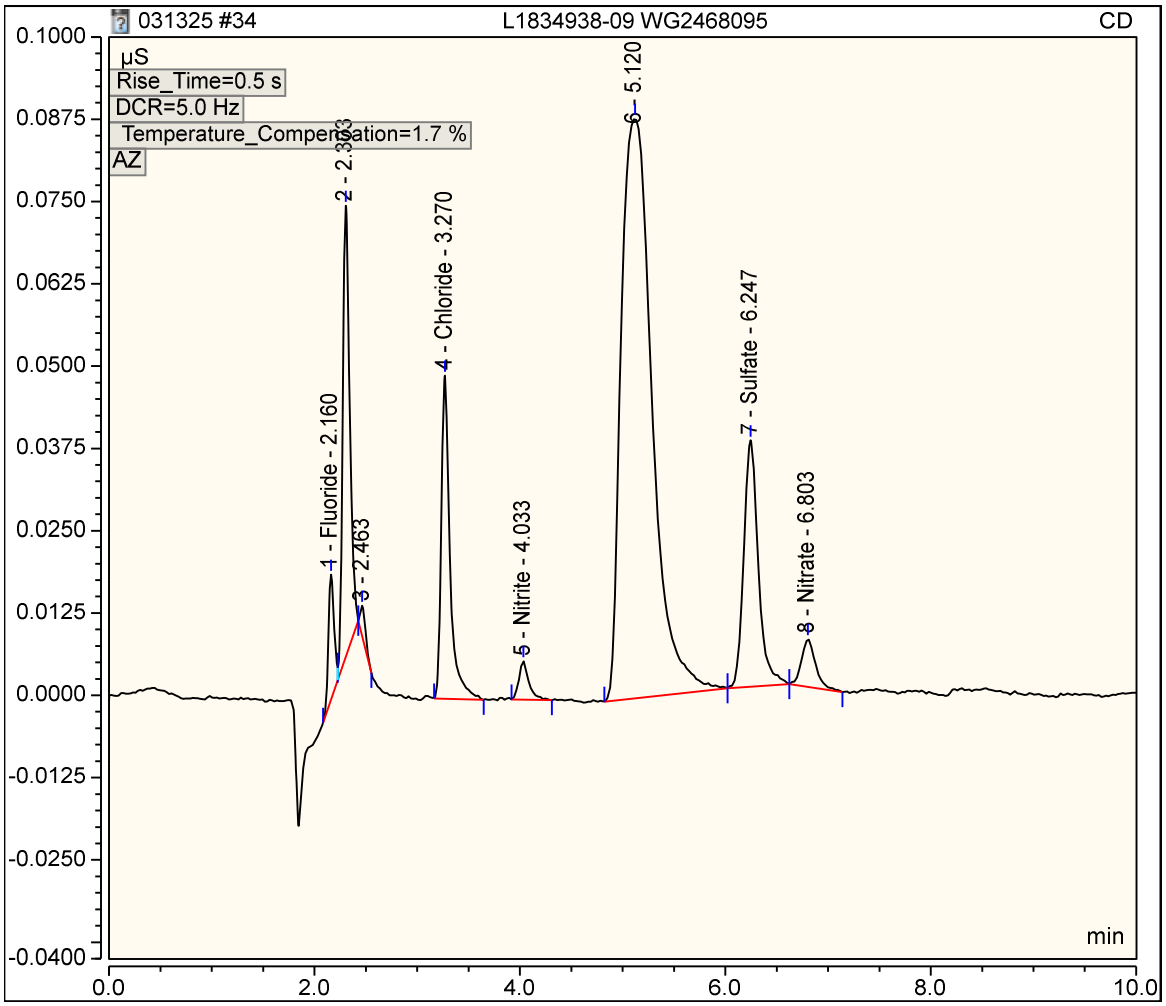
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 17:15**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.002	0.027	0.0159
3	3.27	Chloride	BMB	0.003	0.036	0.1233
4	4.03	Nitrite	BMB	0.001	0.009	0.0344
6	5.67	Bromide	BMB	0.001	0.006	0.3833
7	6.25	Sulfate	BMB	0.005	0.033	0.2102
8	6.81	Nitrate	BMB	0.001	0.004	0.0516
		TOTAL:		0.01	0.12	0.82



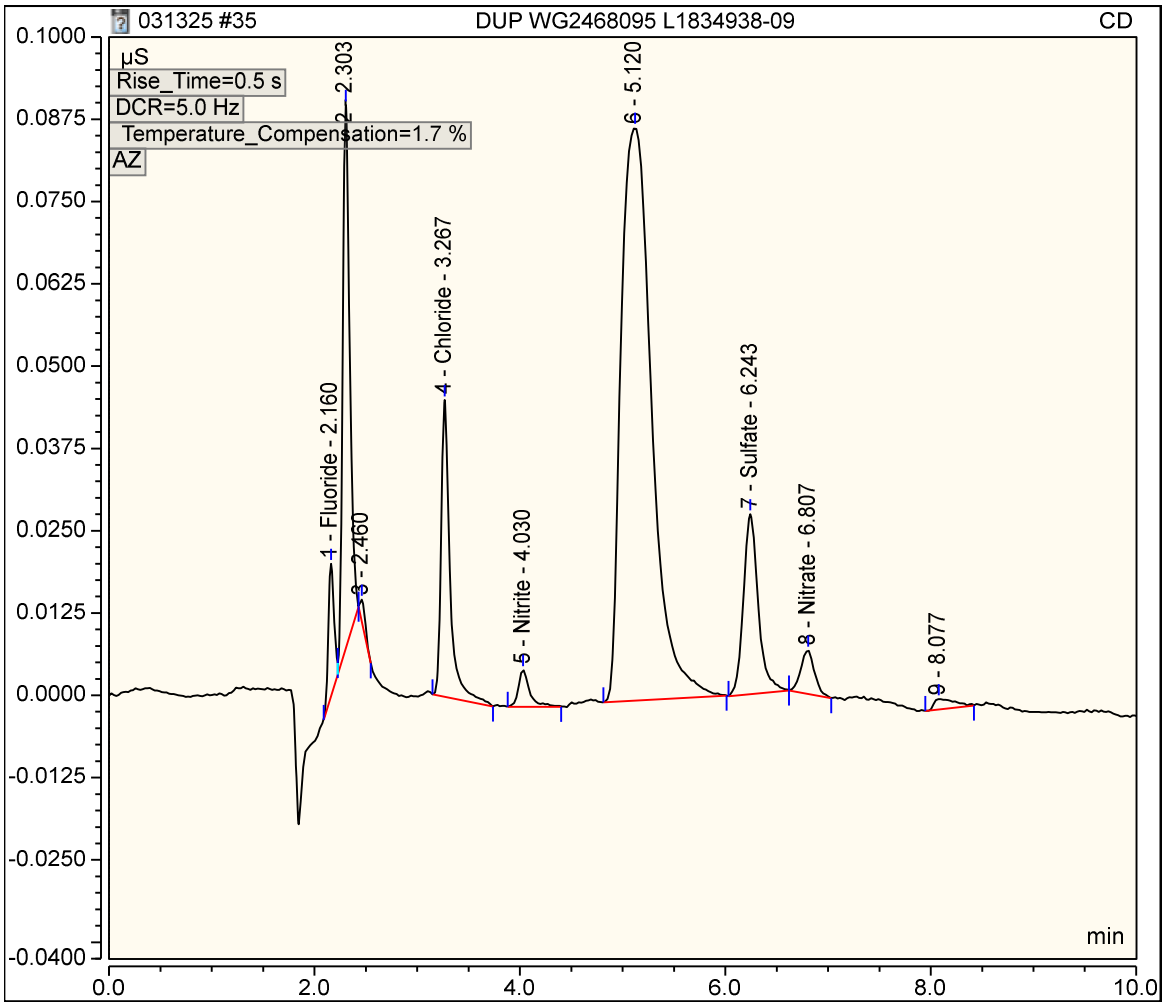
Sample Name:	**L1834938-09 WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 17:42**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.001	0.019	0.0107
4	3.27	Chloride	BMB	0.005	0.049	0.1361
5	4.03	Nitrite	BMB	0.001	0.006	0.0311
7	6.25	Sulfate	BMB	0.006	0.037	0.2210
8	6.80	Nitrate	BMB	0.001	0.007	0.0537
		TOTAL:		0.01	0.12	0.45



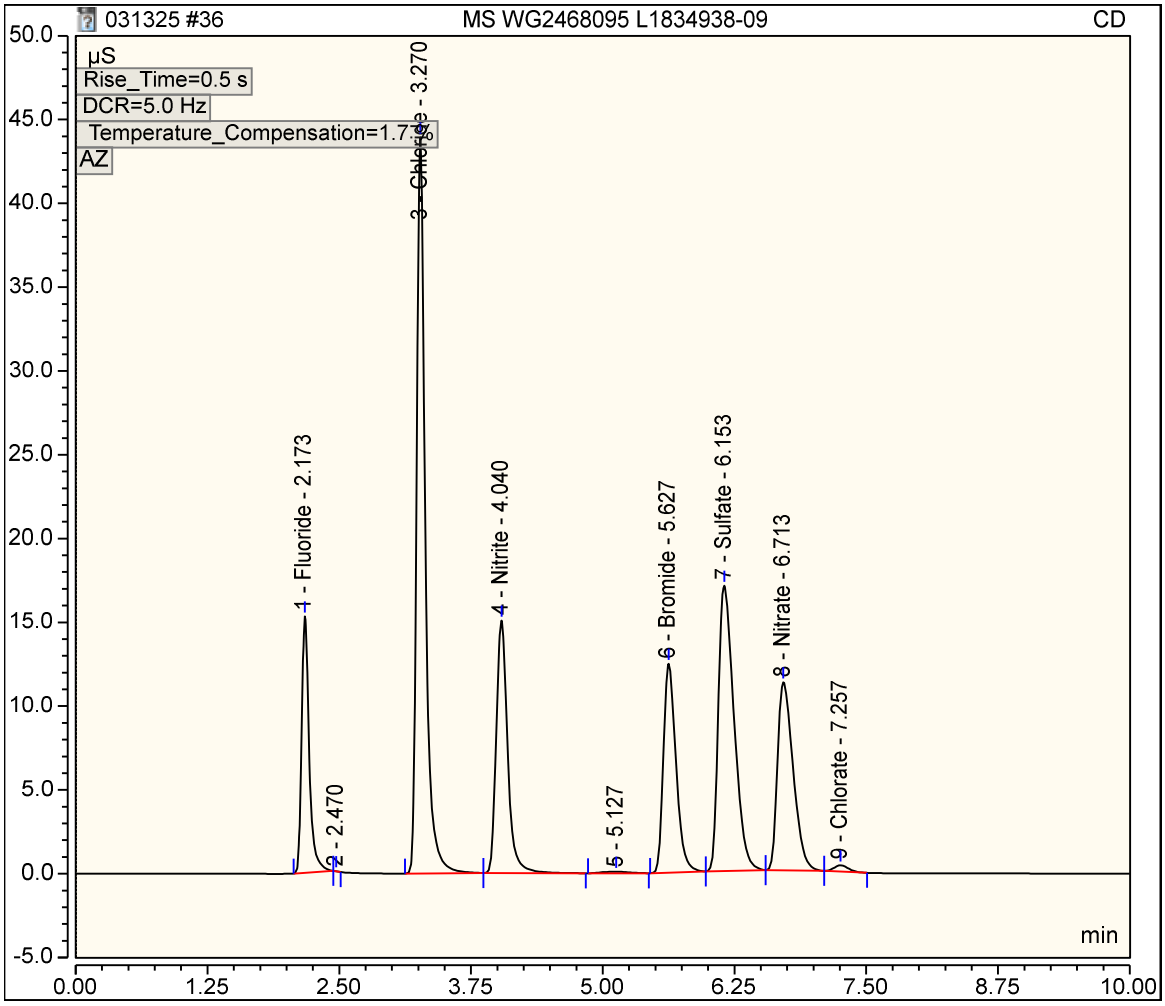
Sample Name:	**DUP WG2468095 L1834938-09**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 17:55**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.001	0.020	0.0112
4	3.27	Chloride	BMB	0.005	0.045	0.1332
5	4.03	Nitrite	BMB	0.001	0.006	0.0314
7	6.24	Sulfate	BMB	0.005	0.027	0.1995
8	6.81	Nitrate	BMB	0.001	0.007	0.0531
		TOTAL:		0.01	0.10	0.43



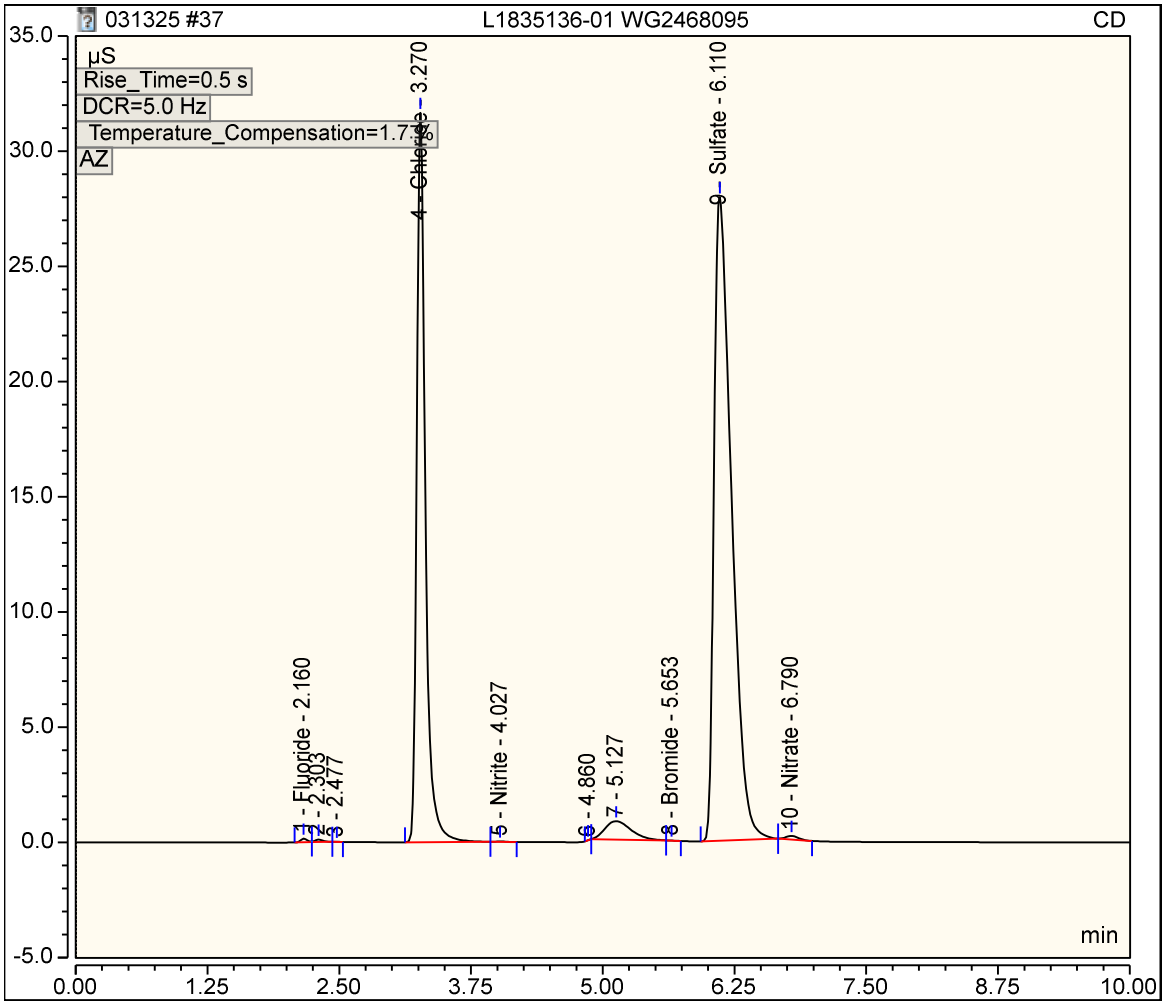
Sample Name:	**MS WG2468095 L1834938-09**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 18:09**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	1.272	15.308	7.7569
3	3.27	Chloride	BMB	4.159	43.916	40.0828
4	4.04	Nitrite	BMB	1.881	15.066	8.1222
6	5.63	Bromide	BMB	1.725	12.461	39.1696
7	6.15	Sulfate	BMB	2.932	17.029	40.2886
8	6.71	Nitrate	BMB	1.936	11.221	8.0887
9	7.26	Chlorate	BMB	0.059	0.379	2.2284
		TOTAL:		13.96	115.38	145.74



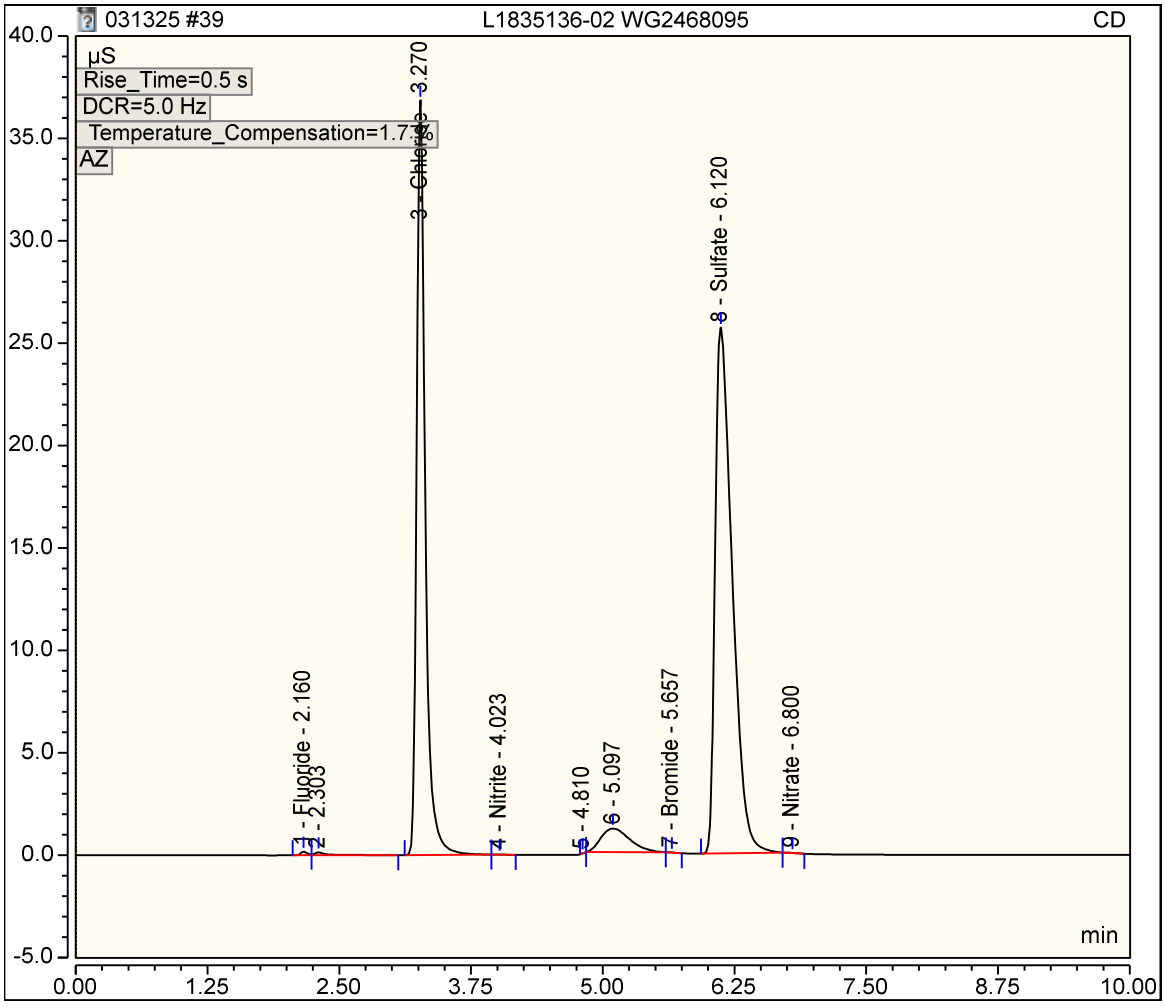
Sample Name:	**L1835136-01 WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 18:22**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.012	0.166	0.0735
4	3.27	Chloride	BMB	2.991	31.658	28.8473
5	4.03	Nitrite	BMB	0.002	0.022	0.0373
8	5.65	Bromide	BMB	0.000	0.004	0.3749
9	6.11	Sulfate	BMB	5.358	27.930	73.5177
10	6.79	Nitrate	BMB	0.022	0.166	0.1420
		TOTAL:		8.39	59.95	102.99



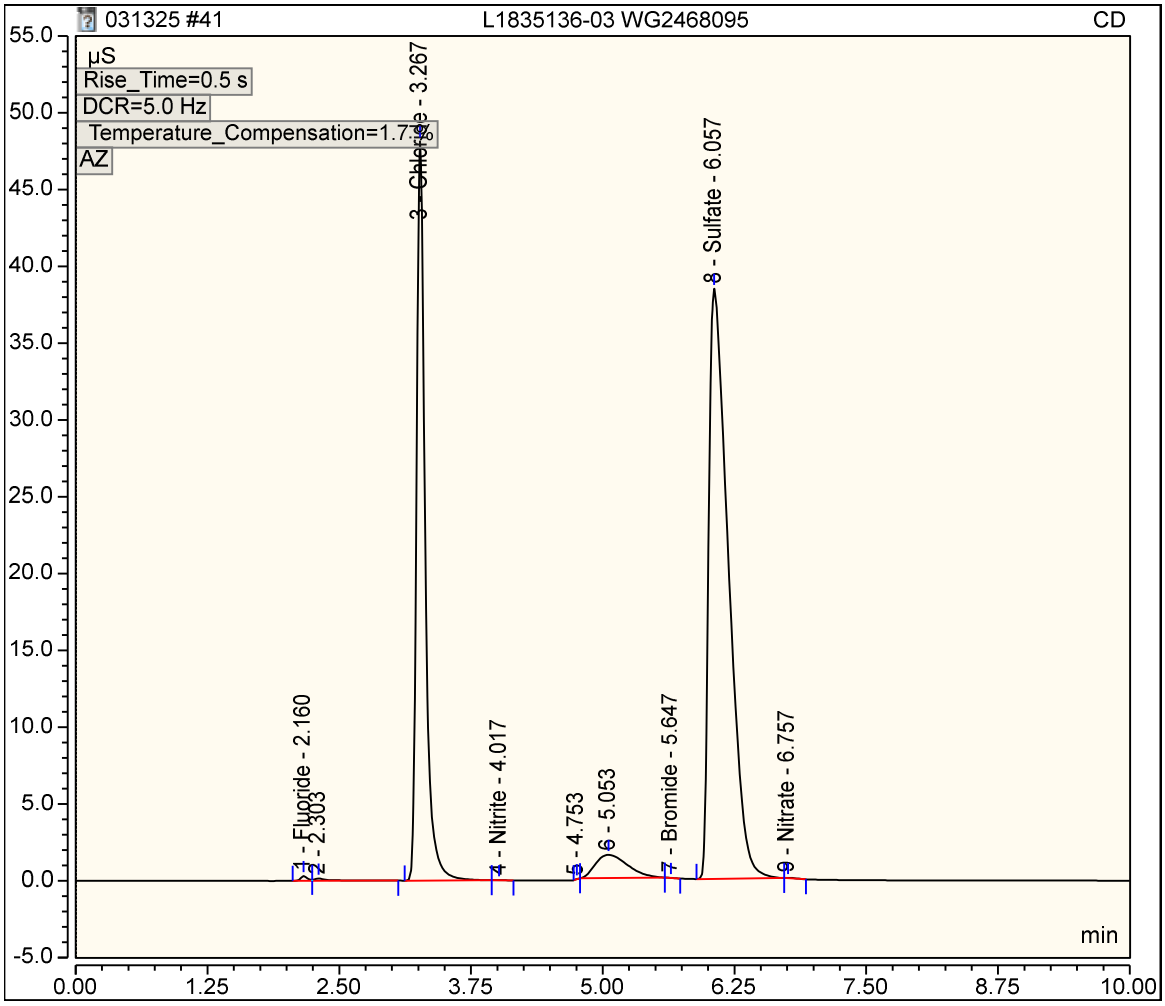
Sample Name:	**L1835136-02 WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**5.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 18:49**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.013	0.176	0.4042
3	3.27	Chloride	BMB	3.485	36.836	168.0162
4	4.02	Nitrite	BMB	0.001	0.015	0.1699
7	5.66	Bromide	BMB	0.001	0.009	1.9198
8	6.12	Sulfate	BMB	4.820	25.672	330.7249
9	6.80	Nitrate	BMB	0.001	0.012	0.2684
TOTAL:				8.32	62.72	501.50



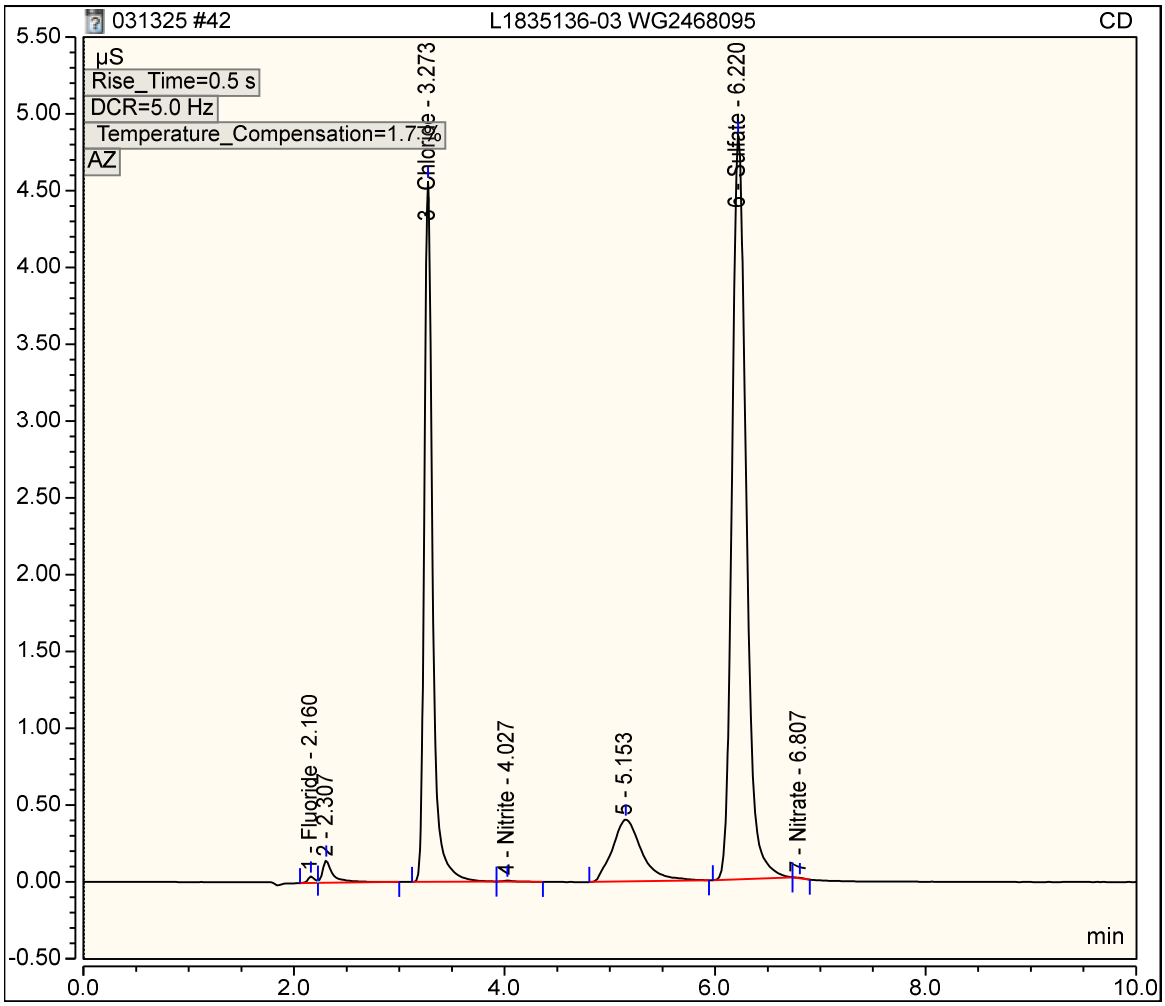
Sample Name:	**L1835136-03 WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 19:16**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.023	0.312	0.1426
3	3.27	Chloride	BMB	4.553	48.129	43.8755
4	4.02	Nitrite	BMB	0.001	0.012	0.0329
7	5.65	Bromide	BMB	0.001	0.009	0.3816
8	6.06	Sulfate	BMB	8.254	38.414	113.1678
9	6.76	Nitrate	BMB	0.003	0.016	0.0606
		TOTAL:		12.83	86.89	157.66



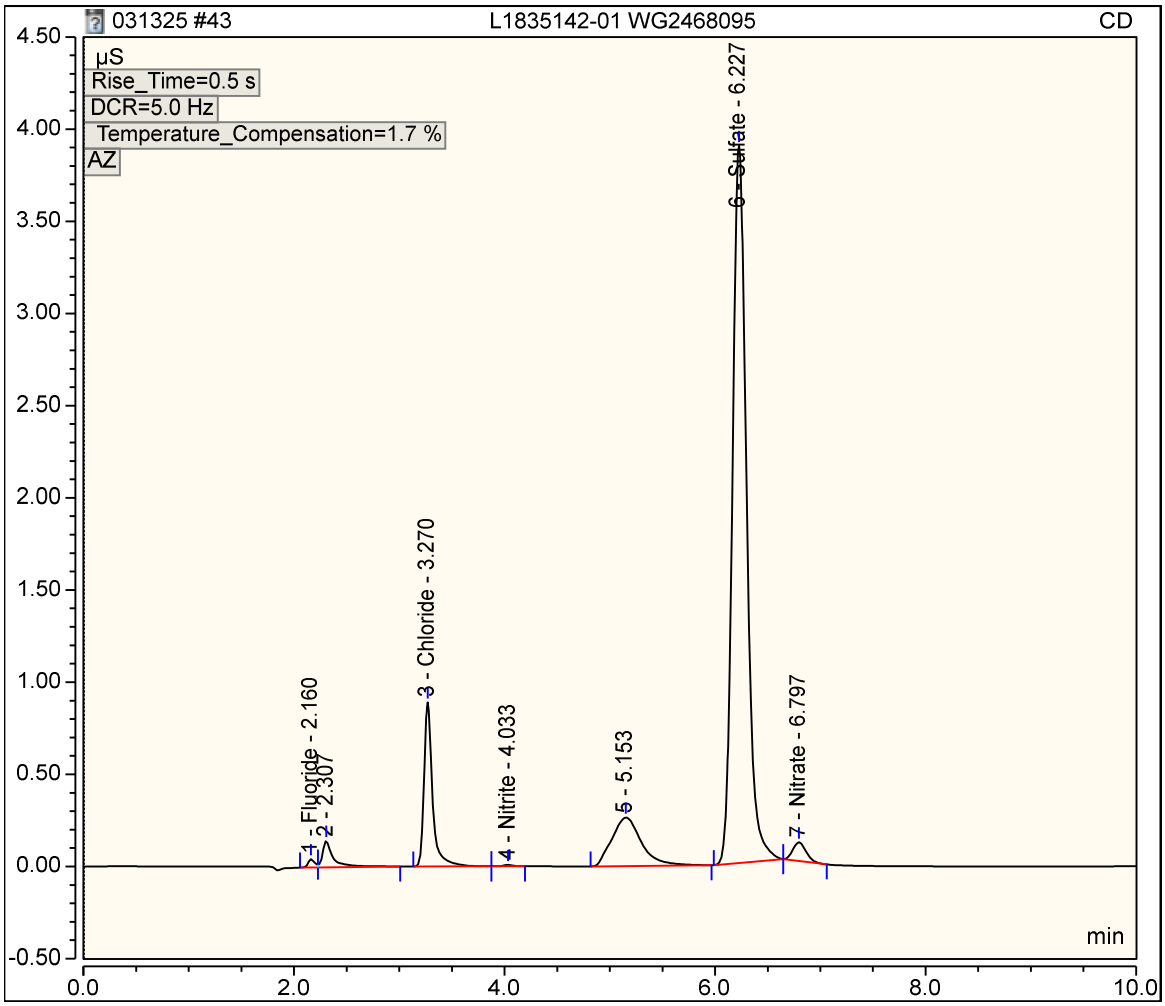
Sample Name:	**L1835136-03 WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 19:29**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.003	0.043	0.2253
3	3.27	Chloride	BMB	0.418	4.559	41.1256
4	4.03	Nitrite	BMB	0.001	0.007	0.3189
6	6.22	Sulfate	BMB	0.760	4.838	105.4582
7	6.81	Nitrate	BMB	0.000	0.002	0.4973
		TOTAL:		1.18	9.45	147.63



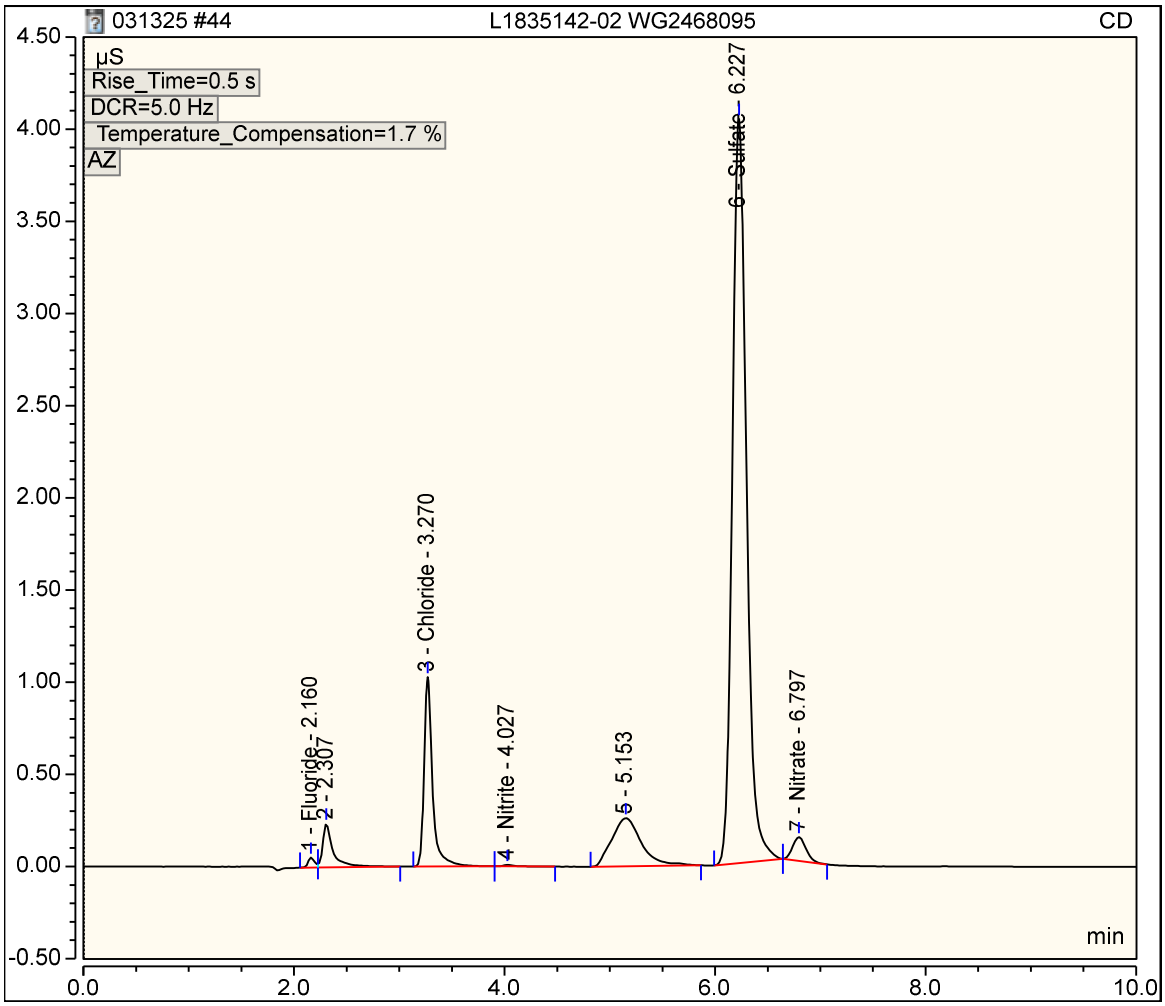
Sample Name:	**L1835142-01 WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 19:43**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.003	0.045	0.2348
3	3.27	Chloride	BMB	0.083	0.890	8.8355
4	4.03	Nitrite	BMB	0.001	0.008	0.3201
6	6.23	Sulfate	BMB	0.601	3.890	83.6092
7	6.80	Nitrate	BMB	0.015	0.102	1.1085
		TOTAL:		0.70	4.94	94.11



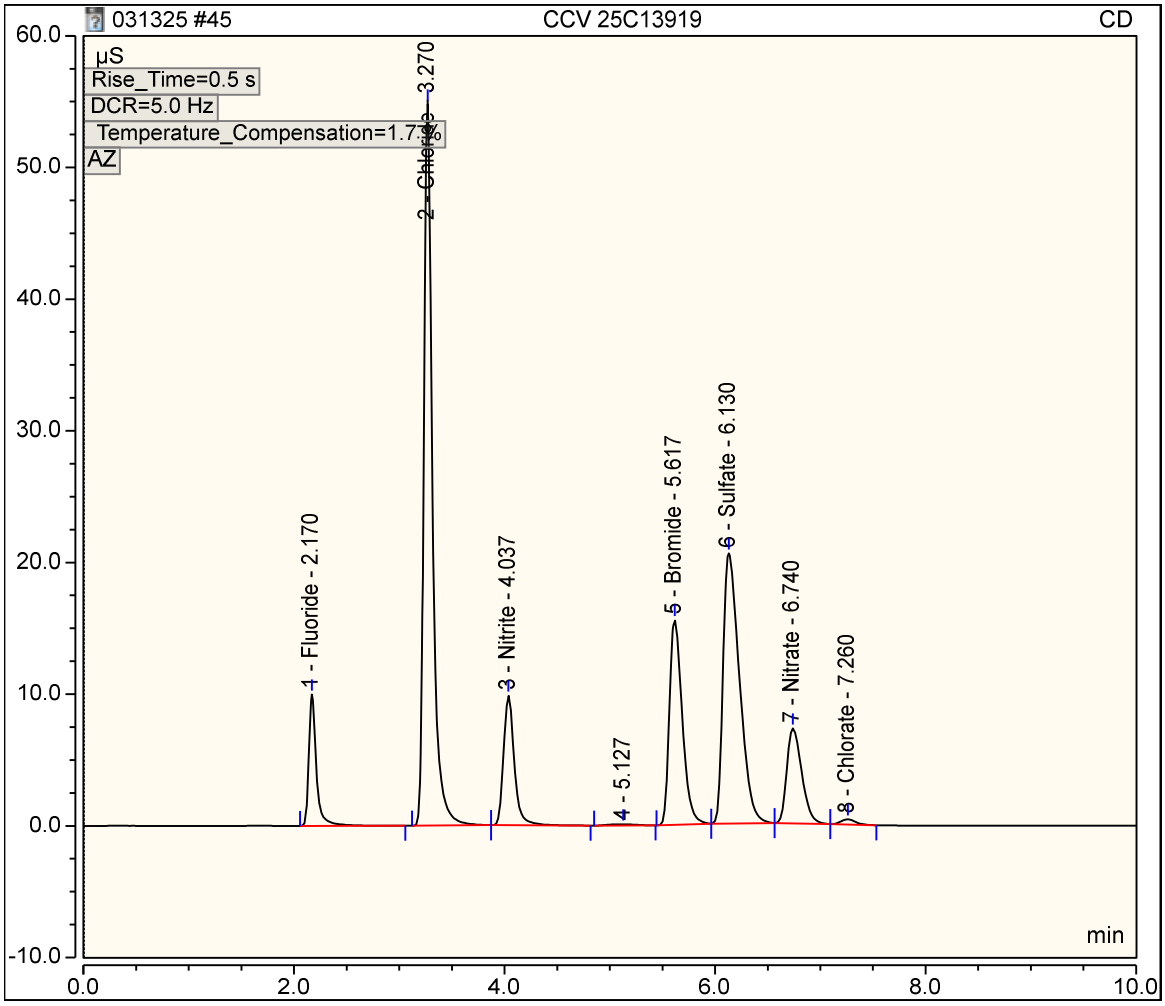
Sample Name:	**L1835142-02 WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 19:56**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.004	0.055	0.2746
3	3.27	Chloride	BMB	0.095	1.027	10.0462
4	4.03	Nitrite	BMB	0.001	0.008	0.3260
6	6.23	Sulfate	BMB	0.626	4.037	87.0385
7	6.80	Nitrate	BMB	0.019	0.129	1.2769
		TOTAL:		0.74	5.26	98.96



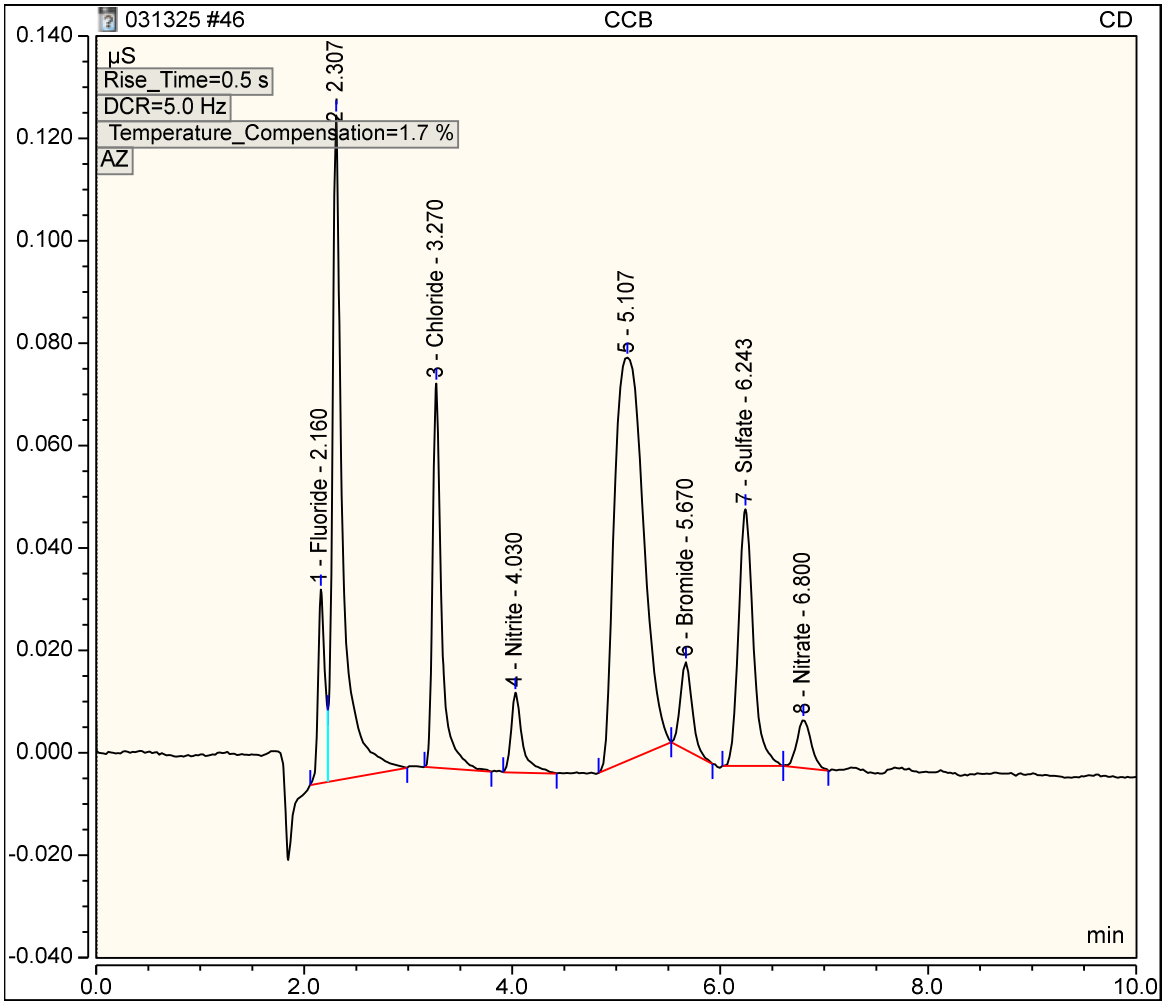
Sample Name:	**CCV 25C13919**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 20:09**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.833	9.980	5.0809
2	3.27	Chloride	BMB	5.225	54.778	50.3337
3	4.04	Nitrite	BMB	1.168	9.853	5.0560
5	5.62	Bromide	BMB	2.200	15.574	49.8616
6	6.13	Sulfate	BMB	3.692	20.517	50.6972
7	6.74	Nitrate	BMB	1.186	7.221	4.9753
8	7.26	Chlorate	BMB	0.062	0.392	2.3322
		TOTAL:		14.37	118.32	168.34



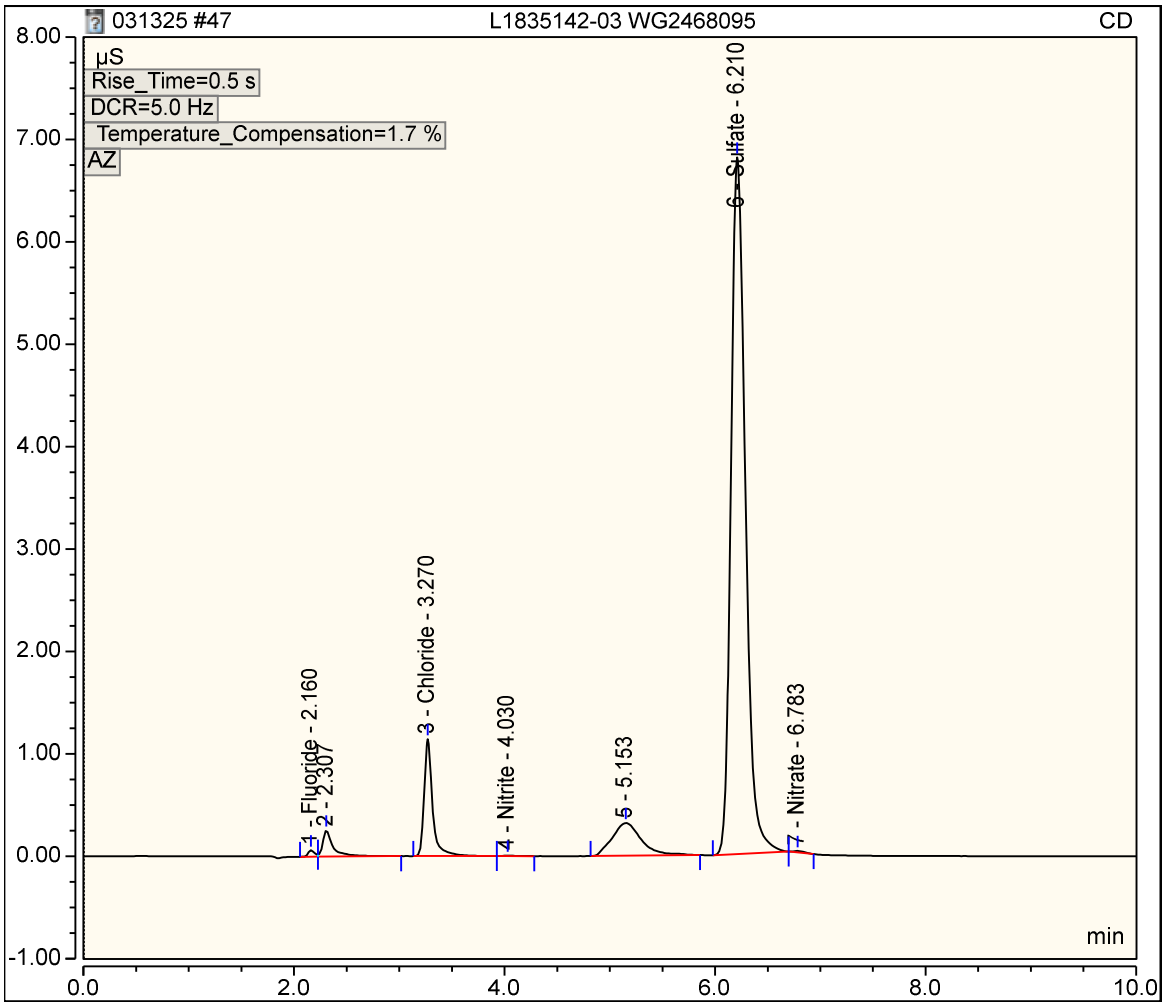
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 20:23**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.003	0.038	0.0206
3	3.27	Chloride	BMB	0.008	0.075	0.1628
4	4.03	Nitrite	BMB	0.002	0.016	0.0367
6	5.67	Bromide	BMB	0.002	0.017	0.4178
7	6.24	Sulfate	BMB	0.008	0.050	0.2494
8	6.80	Nitrate	BMB	0.002	0.009	0.0551
		TOTAL:		0.02	0.21	0.94



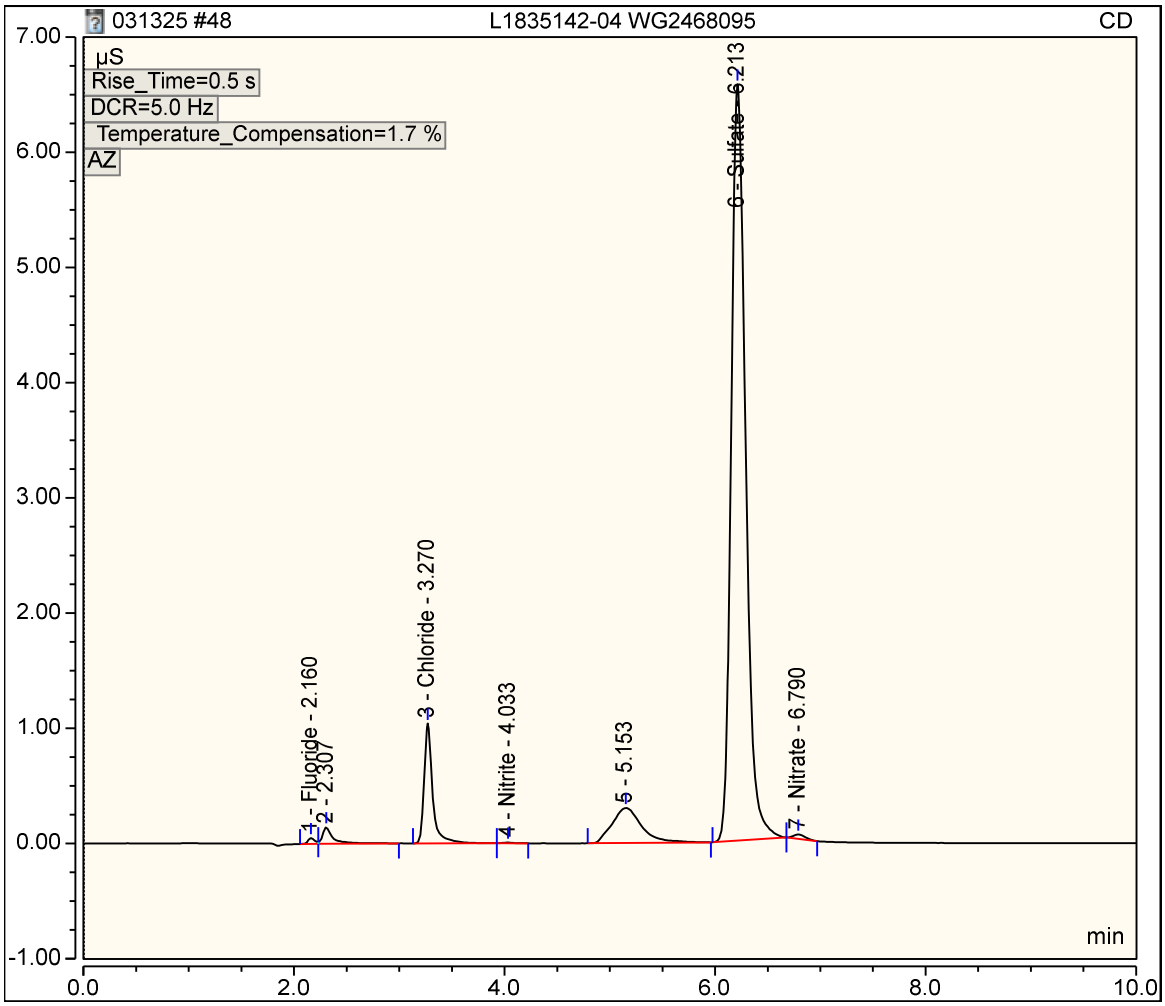
Sample Name:	**L1835142-03 WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 20:36**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.004	0.063	0.3058
3	3.27	Chloride	BMB	0.105	1.143	11.0277
4	4.03	Nitrite	BMB	0.001	0.005	0.3090
6	6.21	Sulfate	BMB	1.077	6.804	148.9127
7	6.78	Nitrate	BMB	0.002	0.015	0.5671
		TOTAL:		1.19	8.03	161.12



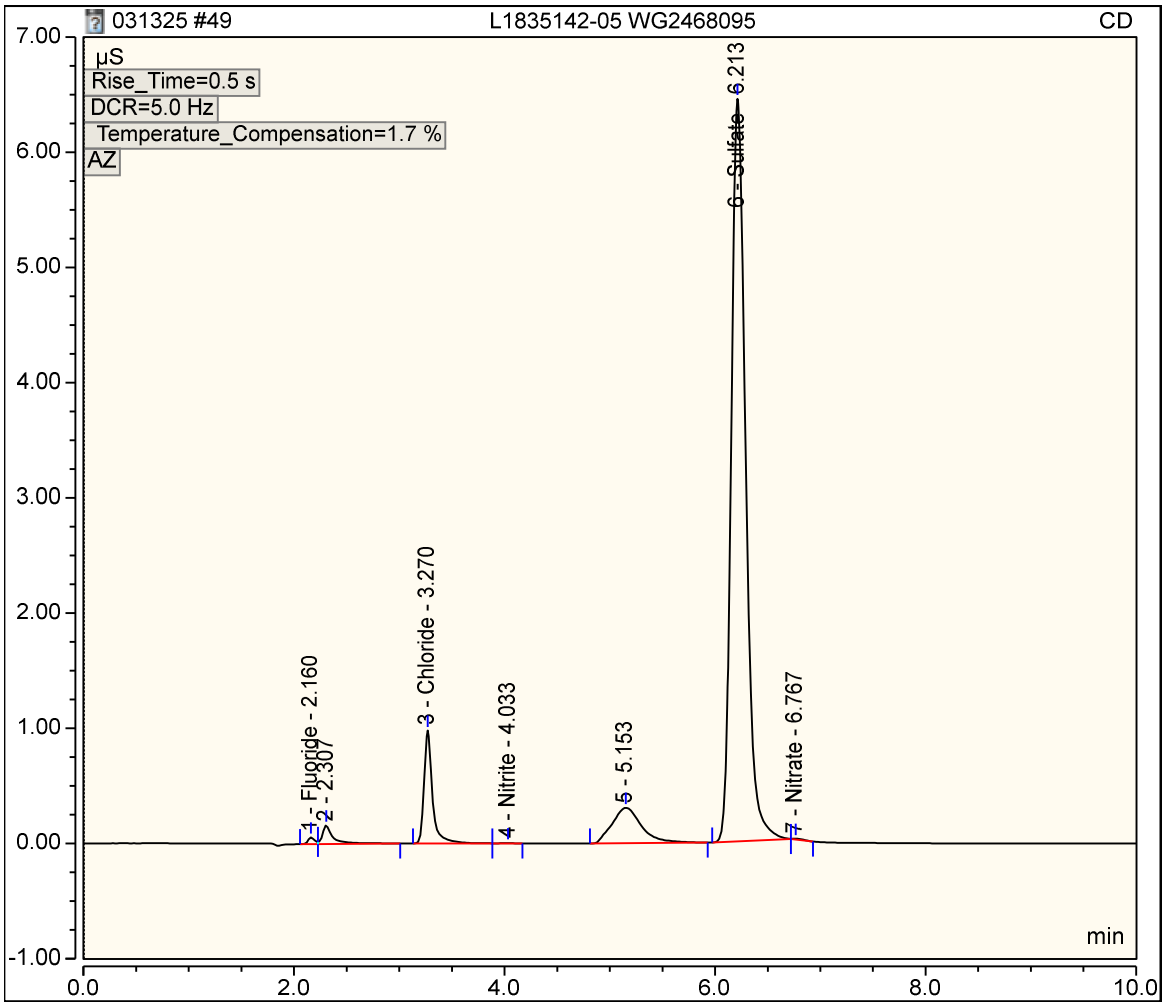
Sample Name:	**L1835142-04 WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 20:50**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.004	0.052	0.2666
3	3.27	Chloride	BMB	0.096	1.039	10.1448
4	4.03	Nitrite	BMB	0.001	0.006	0.3101
6	6.21	Sulfate	BMB	1.037	6.564	143.3711
7	6.79	Nitrate	BMB	0.005	0.038	0.6991
		TOTAL:		1.14	7.70	154.79



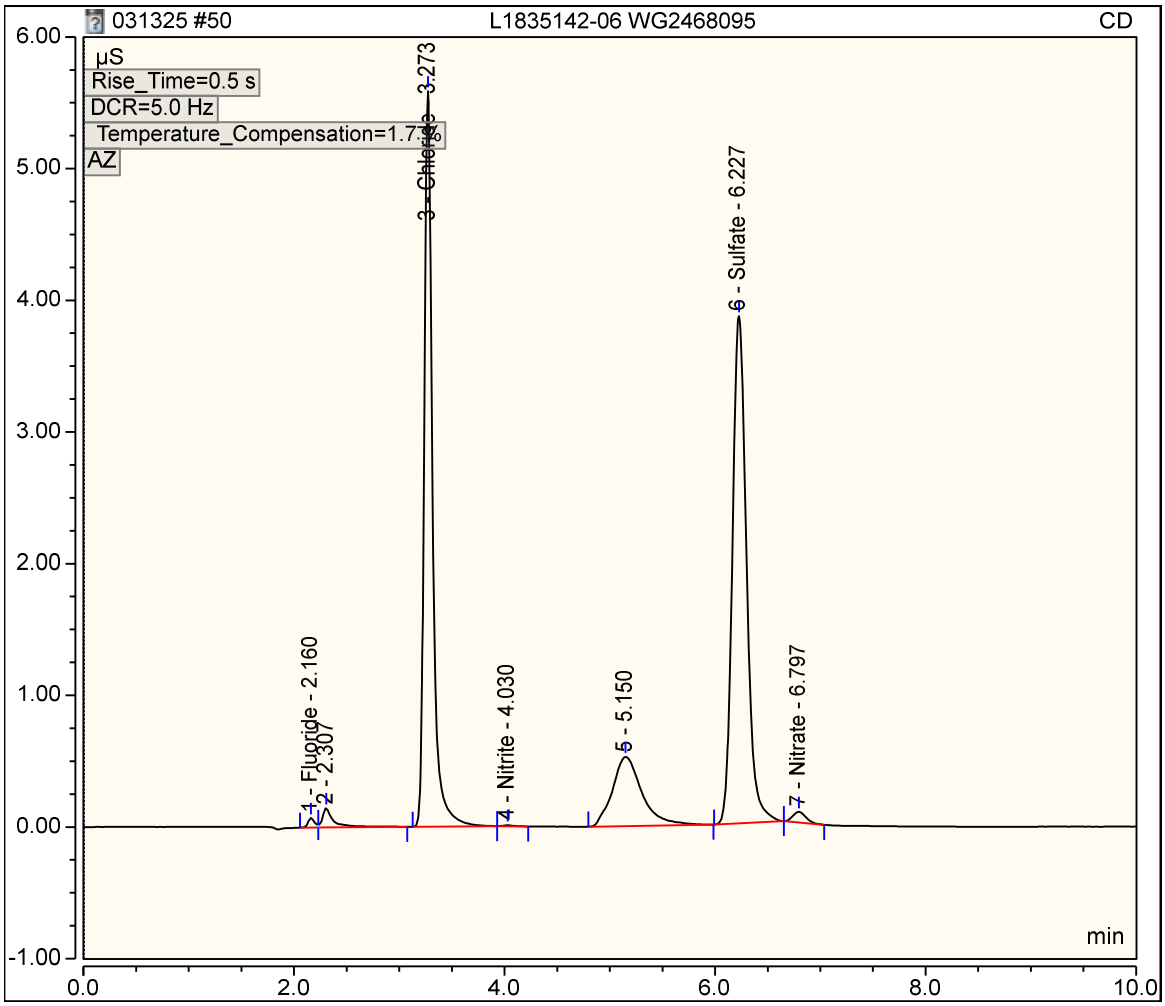
Sample Name:	**L1835142-05 WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 21:03**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.004	0.058	0.2875
3	3.27	Chloride	BMB	0.090	0.979	9.5919
4	4.03	Nitrite	BMB	0.000	0.003	0.2982
6	6.21	Sulfate	BMB	1.018	6.445	140.7653
7	6.77	Nitrate	BMB	0.001	0.006	0.5234
		TOTAL:		1.11	7.49	151.47



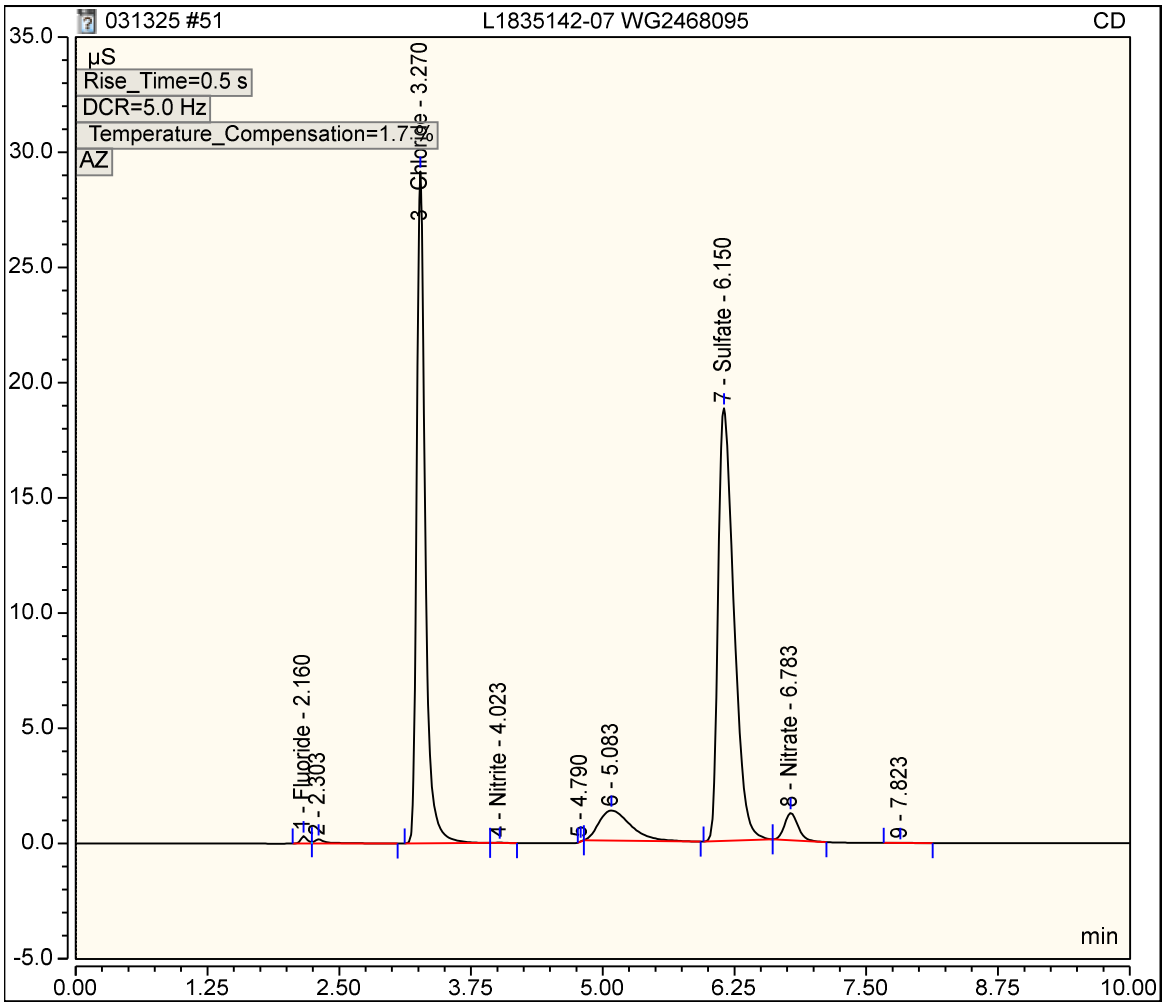
Sample Name:	**L1835142-06 WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**5.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 21:16**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.005	0.073	0.1755
3	3.27	Chloride	BMB	0.514	5.585	25.1394
4	4.03	Nitrite	BMB	0.001	0.008	0.1582
6	6.23	Sulfate	BMB	0.597	3.854	41.5361
7	6.80	Nitrate	BMB	0.012	0.081	0.4859
		TOTAL:		1.13	9.60	67.50



Sample Name:	**L1835142-07 WG2468095**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 21:30**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.023	0.319	0.1409
3	3.27	Chloride	BMB	2.740	29.156	26.4410
4	4.02	Nitrite	BMB	0.002	0.022	0.0372
7	6.15	Sulfate	BMB	3.259	18.780	44.7625
8	6.78	Nitrate	BMB	0.178	1.189	0.7884
		TOTAL:		6.20	49.47	72.17

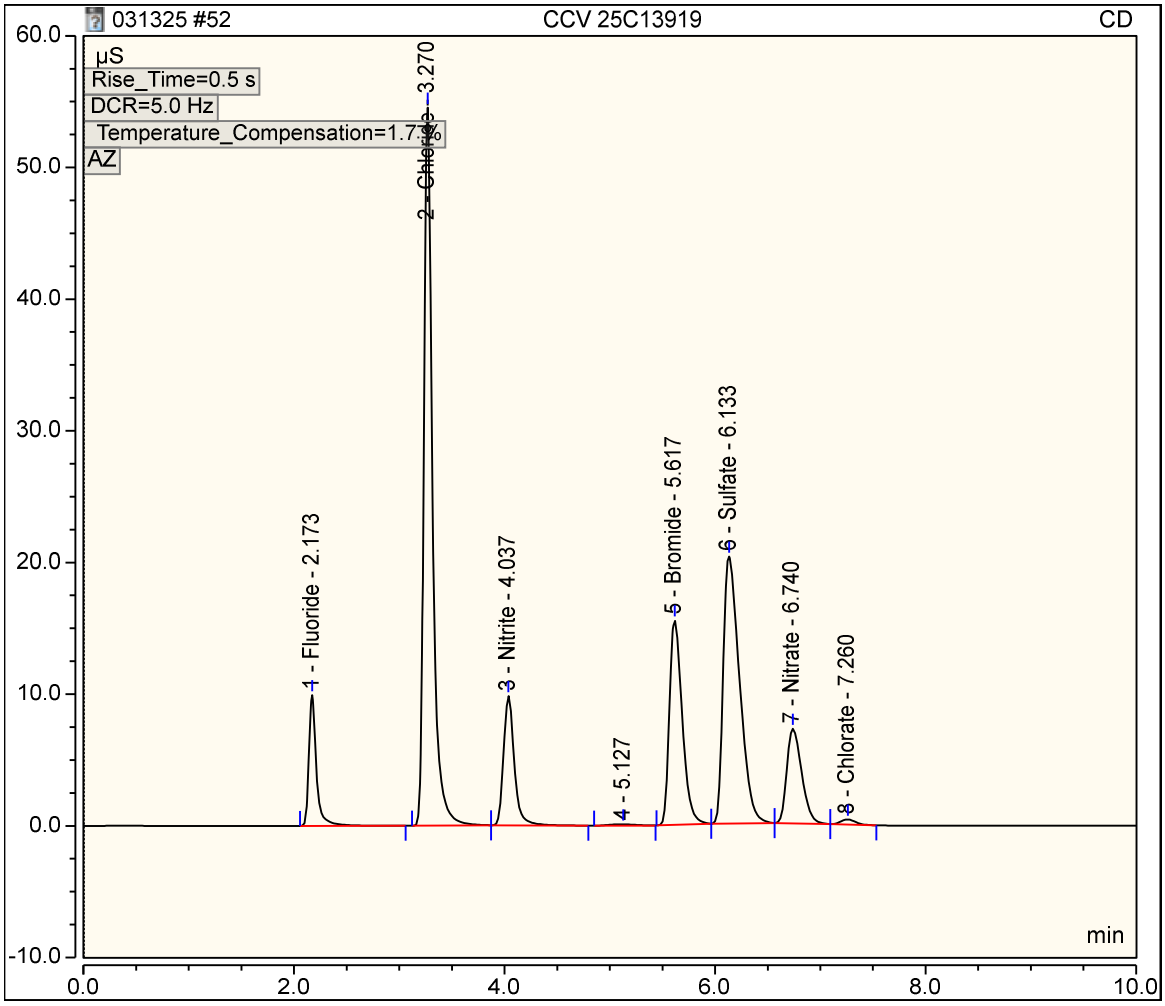


Export for Tree IC-23/Integration

PeakNet 6 (r) Dionex 2001
Version 7.2.9.11323

Sample Name:	**CCV 25C13919**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 21:43**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.830	9.934	5.0629
2	3.27	Chloride	BMB	5.198	54.527	50.0739
3	4.04	Nitrite	BMB	1.163	9.818	5.0332
5	5.62	Bromide	BMB	2.194	15.547	49.7259
6	6.13	Sulfate	BMB	3.642	20.279	50.0069
7	6.74	Nitrate	BMB	1.180	7.194	4.9488
8	7.26	Chlorate	BMB	0.062	0.390	2.3196
		TOTAL:		14.27	117.69	167.17

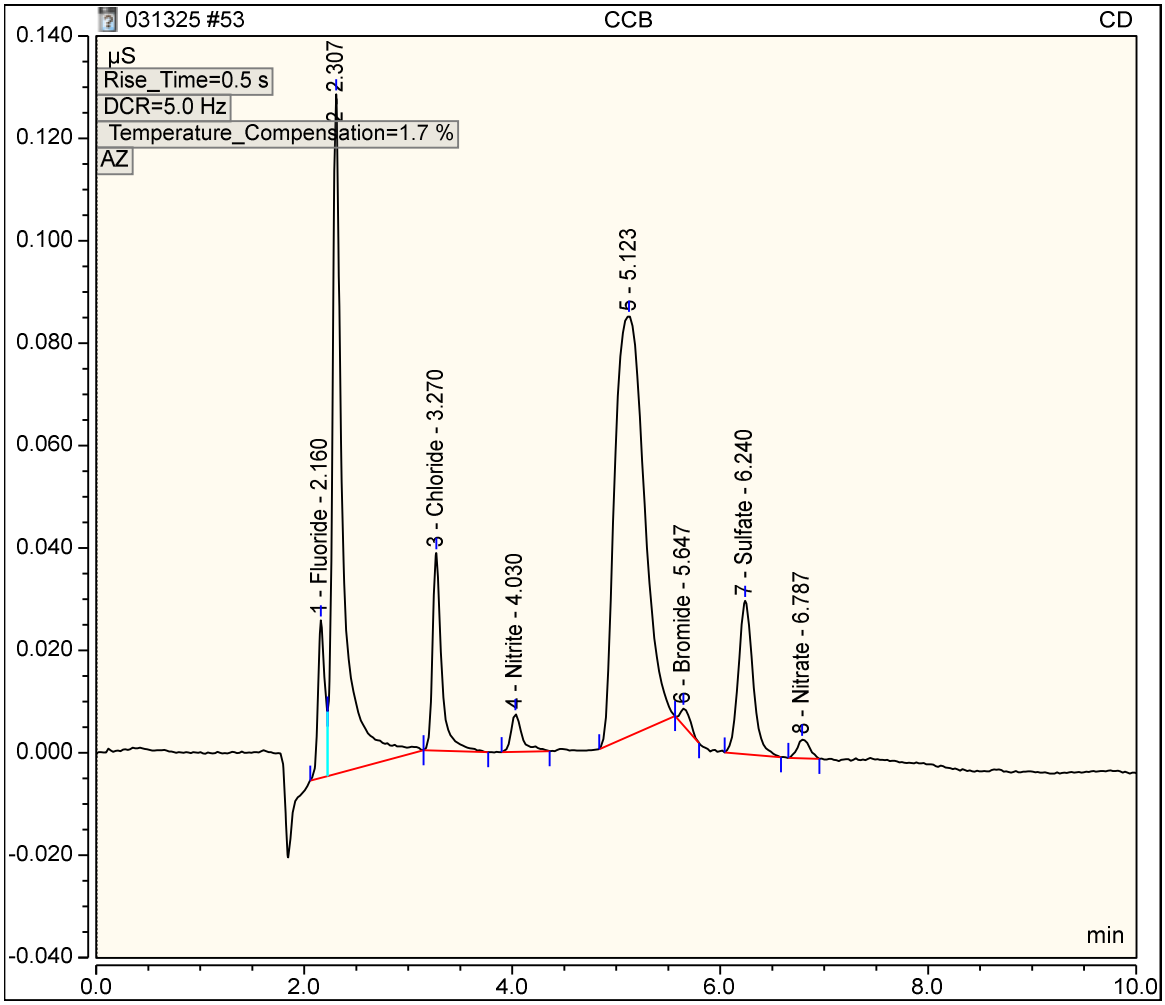


Export for Tree IC-23/Integration

PeakNet 6 (r) Dionex 2001
Version 7.2.9.11323

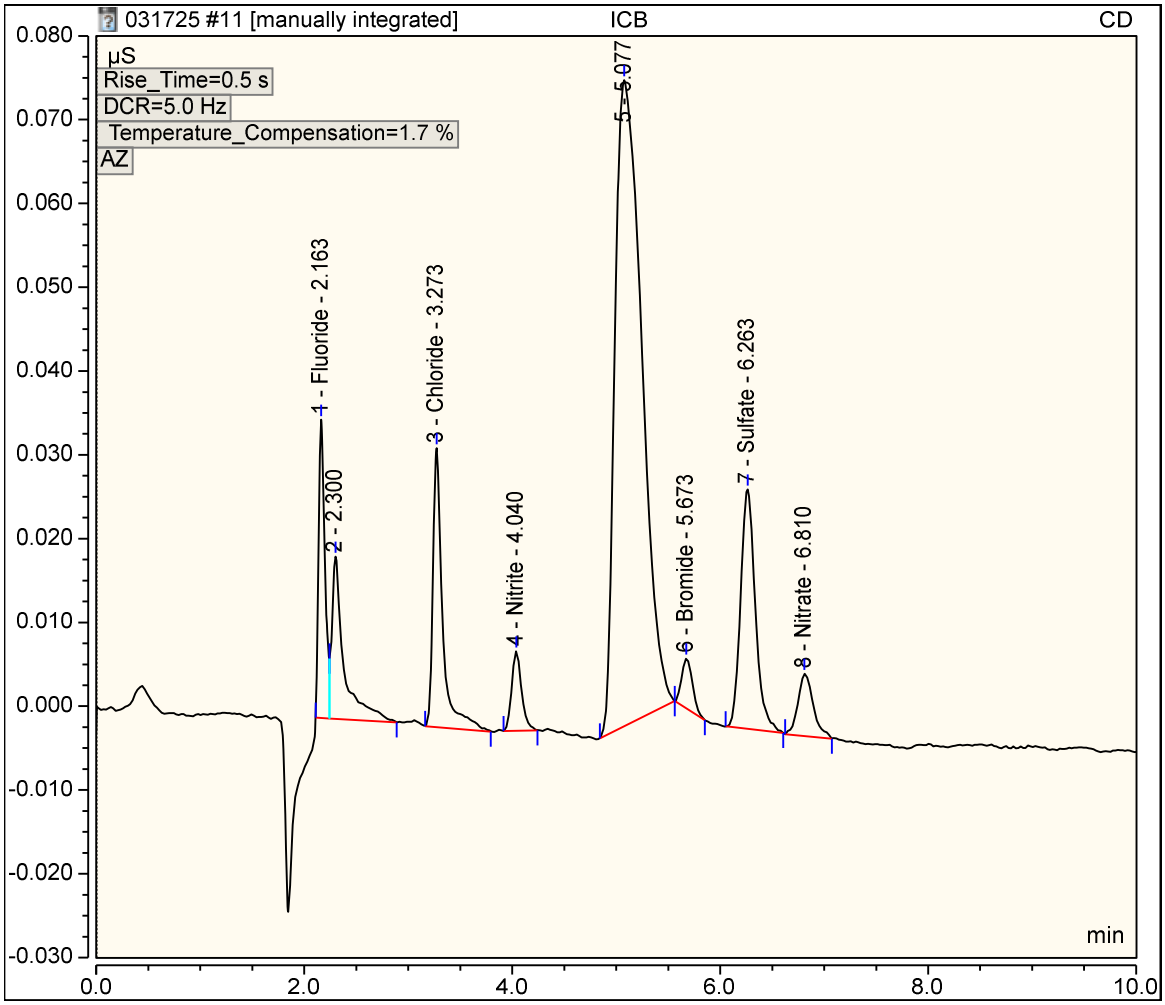
Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/13/25 21:57**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.002	0.031	0.0175
3	3.27	Chloride	BMB	0.004	0.039	0.1275
4	4.03	Nitrite	BMB	0.001	0.007	0.0324
6	5.65	Bromide	BMB	0.000	0.003	0.3760
7	6.24	Sulfate	BMB	0.005	0.030	0.2031
8	6.79	Nitrate	BMB	0.001	0.004	0.0510
		TOTAL:		0.01	0.11	0.81



Sample Name:	**ICB**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	**BA: MDM3917 03/09/25**
Inj. Date/Time:	**03/09/25 01:20**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM *	0.003	0.036	0.0188
3	3.27	Chloride	BMB	0.004	0.033	0.1243
4	4.04	Nitrite	BMB	0.001	0.009	0.0328
6	5.67	Bromide	BMB	0.001	0.006	0.3836
7	6.26	Sulfate	BMB	0.005	0.029	0.2010
8	6.81	Nitrate	BMB*	0.001	0.007	0.0542
		TOTAL:		0.01	0.12	0.81



ANION Waters WetChem Prep Benchsheet

Batch: WG2468095

Analyst: TRL4278 **Analyst 2:** NA___ **Analyst 3:** NA___ **Batch Date/Time:** 03/13/25 11:27-11:28 **Prep End Date/Time:** 03/13/25 13:04 **SOP:** MTJL-0155
Method: 9056/9056A/300.0/300.1/4110B **Eluent ID:** NA **0.2 Filter Lot#:** 00376291 **Syringe Lot#:** 241125 **1mL Auto Pipette SN:** SU31260
1mL Auto Pipette Tip Lot#: 25010027 **5mL Pipette Lot#:** NA **10mL Pipette Lot#:** CC75G **Dilution Tube Lot#:** LV24080204-5003-MI **Chloride Strip Lot#:** 4290A
Sulfate Strip Lot#: 012P421-DD **NO2/NO3 Strip Lot#:** NA **IC Cap/Vial Lot#:** 272627/307241016 **0.1mL Auto Pipette SN:** NA **0.1mL Auto Pipette Tip Lot#:** NA
pH Lot #: 10BDH2741

LCS/D Standard: 25C07132 Amt. Used: 2 mL Exp. Date:09/07/25 **Anion Standard (MS/MSD):** 25C07132 Amt. Used: 2 mL Exp. Date:09/07/25
Chlorate (MS/MSD): 25C12882 Amt. Used: 0.50 mL Exp. Date:04/12/25

Sample Number	Matrix	Method	Sample Vol. Used (mL)	Dilution Factor	Surrogate Multiplier	Chloride Strip Dil.	NO2/NO3 Strip Dil.	Sulfate Strip Dil.	Sample pH	pH Dilution	Review Analyst	Review Date
BLANK			10	1	1	1x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56
LCS			10	1	1	1x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56
DUP(L1834938-01)			10	1	1	1x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56
DUP(L1834938-09)			10	1	1	1x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56
MS(L1834938-01)			10	1	1	1x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56
MS(L1834938-09)			10	1	1	1x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56
MSD(L1834938-01)			10	1	1	1x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56
1. L1834938-01	WW	300.0	10	1	1	1x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56
2. L1834938-02	WW	300.0	10	1	1	5x	1x	5x	7	1x	TRL4278	03/13/25 13:04:56
3. L1834938-03	WW	300.0	10	1	1	5x	1x	10x	7	1x	TRL4278	03/13/25 13:04:56
4. L1834938-04	WW	300.0	10	1	1	5x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56
5. L1834938-05	WW	300.0	10	1	1	1x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56
6. L1834938-06	WW	300.0	10	1	1	1x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56
7. L1834938-07	WW	300.0	10	1	1	1x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56
8. L1834938-08	WW	300.0	10	1	1	5x	1x	10x	7	1x	TRL4278	03/13/25 13:04:56
9. L1834938-09	WW	300.0	10	1	1	1x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56
10. L1835136-01	GW	9056A	10	1	1	1x	1x	10x	7	1x	TRL4278	03/13/25 13:04:56
11. L1835136-02	GW	9056A	10	1	1	5x	1x	10x	8	1x	TRL4278	03/13/25 13:04:56
12. L1835136-03	GW	9056A	10	1	1	1x	1x	10x	7	1x	TRL4278	03/13/25 13:04:56
13. L1835142-01	GW	9056A	10	1	1	1x	1x	10x	7	1x	TRL4278	03/13/25 13:04:56
14. L1835142-02	GW	9056A	10	1	1	1x	1x	10x	7	1x	TRL4278	03/13/25 13:04:56
15. L1835142-03	GW	9056A	10	1	1	1x	1x	10x	7	1x	TRL4278	03/13/25 13:04:56
16. L1835142-04	GW	9056A	10	1	1	1x	1x	10x	7	1x	TRL4278	03/13/25 13:04:56
17. L1835142-05	GW	9056A	10	1	1	1x	1x	10x	7	1x	TRL4278	03/13/25 13:04:56
18. L1835142-06	GW	9056A	10	1	1	1x	1x	5x	7	1x	TRL4278	03/13/25 13:04:56
19. L1835142-07	GW	9056A	10	1	1	1x	1x	1x	7	1x	TRL4278	03/13/25 13:04:56

Comments:
PREPPED 031325

Reviewed By: TRL4278 on 03/13/25 13:04:56

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Coef1	First Order Coefficient.
Coef2	Second Order Coefficient.
Corr.	Correlation Coefficient.
Incpt	Intercept.
Mass	Mass of parameter.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RSD	Relative Standard Deviation.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Wavelength	Wavelength of parameter.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

GLOSSARY OF TERMS

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

5

Company Name/Address:	Billing Information:
Haley & Aldrich-Phoenix 400 E. Van Buren St #545 Phoenix, AZ 85004	Attn: Accounts Payable 70 Blanchard Rd Suite 204 Burlington, MA 01803

Report to:	Email To:
Samantha Karey 602-760-2441	skarey@haleyaldrich.com

Project Description:	City/State Collected:	Please Circle:
ESI - Env. Sampling	Missouri	PT MT (CT) ET

Phone:	Client Project #	Lab Project #
	0213103-000	

Collected by (print):	Site/Facility ID #	P.O. #
S. Karey		

Collected by (signature):	Rush? (Lab MUST Be Notified)	Quote #
	___ Same Day X Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day	Date Results Needed

Immediately Packed on Ice N ___ Y X

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace® PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1035142

E133

Acctnum:
Template:
Prelogin:
PM:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Hexavalent Chromium-M3500-Cr B	Total Mercury - EPA E245.1	Dissolved Mercury - EPA E245.1 Field Filtered	Total Metals 200.7	Dissolved Metals 200.7 Field Filtered	Radium 226/228 EPA 903.1/904	Radium 226/228 EPA 903.1/904 Dissolved	Sulfate Anions - SW 9056A	Sulfate Anions-SW9056A Field Filtered	Remarks	Sample # (lab only)
Montrose_Lake_S_SW	Grab	SW	-	3/11/25	1240	5	X	X		X		X		X			01
Montrose_Lake_S_SW_Filtered	Grab	SW	-	3/11/25	1240	5	X		X		X		X		X		02
Deepwater_S_SW	Grab	SW	-	3/11/25	1545	5	X	X		X		X		X		limited sulfate	03
Deepwater_S_SW_filtered	Grab	SW	-	3/11/25	1610	5	X		X		X		X		X	limited Sulfate	04
Dup 3_SW	Grab	SW	-	3/11/25	1545	5	X	X		X		X		X		limited Sulfate	05
Truman_S_SW	Grab	SW	-	3/11/25	1734	5	X	X		X		X		X			06
Truman_S_SW_filtered	Grab	SW	-	3/11/25	1734	5	X		X		X		X		X		07

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other SW surface water

Remarks: (splits) ~~Dissolved filtered, please preserve at lab~~ - no rush on rad -

pH ___ Temp ___
Flow ___ Other ___

Samples returned via:
__ UPS X FedEx __ Courier __ ____

Tracking # multi

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	3/11/25	1745	Fed Ex
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) 17
			E. Doran

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: multi °C Bottles Received: 35

Date: 3-12-25 Time: 0800

If preservation required by Login: Date/Time

Hold:

Condition: (NCF) / OK

Sample Receipt Checklist

COC Seal Present/Intact:	V NP	__Y __N
COC Signed/Accurate:		__Y X N
Bottles arrive intact:		X Y __N
Correct bottles used:		X Y __N
Sufficient volume sent:		X Y __N
If Applicable		
VOA Zero Headspace:		__Y __N
Preservation Correct/Checked:		X Y __N
RAD Screen <0.5 mR/hr:		X Y __N

DC#_Title: Excel Form Template
Effective Date:

Multiple Parcel Form L# L1835142

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
4359 9290 8213	~~0.5~~ CGA9	0.5	+0.4	= 0.9	Yes / No / Not Present
4359 9290 8224	CGA9	3.2	+0.4	= 3.6	Yes / No / Not Present
4359 9290 8207	CGA9	4.1	+0.4	= 4.5	Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

E. Dossett '17 / Eli Dossett
Name

3-12-25
Date

3/12 L1835142 HALALDPAZ

R5

Time estimate: oh **Time spent:** oh

Members

MS Matthew Shacklock (responsible) DR Daphne Richards

- [ ] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Custody seal not intact
- [x] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Matthew Shacklock — *12 March 2025 3:43 PM*

Please clarify total and dissolved metals.

Daphne Richards — *12 March 2025 4:01 PM*

Hg 245.1, 200.7 lead, arsenic, boron, cobalt, barium, cadmium, chromium, lithium, silver, and selenium

Matthew Shacklock — *12 March 2025 5:54 PM*

Done

ANALYTICAL REPORT

April 16, 2025

Revised Report

Haley & Aldrich-Phoenix, AZ

Sample Delivery Group:	L1835187
Samples Received:	03/12/2025
Project Number:	0213103-000
Description:	ESI_ENV_Sampling

Report To:

Samantha Kaney
201 E. Washington Street
Ste 1795
Phoenix, AZ 85004

Entire Report Reviewed By:

Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MONTROSE-LAKE-S-SW L1835187-01 Non-Potable Water

Collected by: S. Kaney | Collected date/time: 03/11/25 12:40 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2470430	1	03/17/25 14:28	03/20/25 18:53	ASN	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2470390	1	03/17/25 10:10	03/20/25 18:27	DDD	Mt. Juliet, TN

MONTROSE-LAKE-S-SW-FILTERED L1835187-02 Non-Potable Water

Collected by: S. Kaney | Collected date/time: 03/11/25 12:40 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2470961	1	03/19/25 13:21	03/25/25 18:28	ASN	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2470402	1	03/17/25 14:44	03/25/25 22:10	DDD	Mt. Juliet, TN

DEEPWATER-S-SW L1835187-03 Non-Potable Water

Collected by: S. Kaney | Collected date/time: 03/11/25 15:45 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2470430	1	03/17/25 14:28	03/20/25 19:53	ASN	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2470390	1	03/17/25 10:10	03/20/25 18:27	DDD	Mt. Juliet, TN

DEEPWATER-S-SW-FILTERED L1835187-04 Non-Potable Water

Collected by: S. Kaney | Collected date/time: 03/11/25 16:10 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2470961	1	03/19/25 13:21	03/25/25 18:28	ASN	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2470402	1	03/17/25 14:44	03/25/25 22:10	DDD	Mt. Juliet, TN

DUP3-SW L1835187-05 Non-Potable Water

Collected by: S. Kaney | Collected date/time: 03/11/25 15:45 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2470430	1	03/17/25 14:28	03/20/25 19:53	ASN	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2470390	1	03/17/25 10:10	03/20/25 18:27	DDD	Mt. Juliet, TN

TRUMAN-S-SW L1835187-06 Non-Potable Water

Collected by: S. Kaney | Collected date/time: 03/11/25 17:34 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2470430	1	03/17/25 14:28	03/20/25 19:53	ASN	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2470390	1	03/17/25 10:10	03/20/25 18:27	DDD	Mt. Juliet, TN

TRUMAN-S-SW-FILTERED L1835187-07 Non-Potable Water

Collected by: S. Kaney | Collected date/time: 03/11/25 17:34 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2470961	1	03/19/25 13:21	03/25/25 18:28	ASN	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2470402	1	03/17/25 14:44	03/25/25 22:10	DDD	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager

Report Revision History

Level II Report - Version 1: 04/10/25 10:59
Level IV Report - Version 2: 04/10/25 12:02
Level II Report - Version 3: 04/16/25 16:10

Project Narrative

Removed COMB Ra per customer request

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.201	U	0.279	0.425	0.482	0.166	03/20/2025 18:53	WG2470430
(T) Barium	*88.4*					*30.0-143*	*03/20/2025 18:53*	WG2470430

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.19		0.447	0.774	0.832	0.436	03/20/2025 18:27	WG2470390
(T) Barium	*84.3*					*30.0-143*	*03/20/2025 18:27*	WG2470390
(T) Yttrium	*85.3*					*30.0-136*	*03/20/2025 18:27*	WG2470390

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226, Dissolved	0.000	U	0.252	0.391	0.560	0.212	03/25/2025 18:28	WG2470961
(T) Barium	*97.3*					*30.0-143*	*03/25/2025 18:28*	WG2470961

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-228, Dissolved	0.675		0.327	0.630	0.600	0.317	03/25/2025 22:10	WG2470402
(T) Barium	*89.2*					*30.0-143*	*03/25/2025 22:10*	WG2470402
(T) Yttrium	*94.3*					*30.0-136*	*03/25/2025 22:10*	WG2470402

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.574		0.369	0.519	0.399	0.122	03/20/2025 19:53	WG2470430
(T) Barium	*84.1*					*30.0-143*	*03/20/2025 19:53*	WG2470430

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.0350	U	0.356	0.656	0.695	0.363	03/20/2025 18:27	WG2470390
(T) Barium	*101*					*30.0-143*	*03/20/2025 18:27*	WG2470390
(T) Yttrium	*86.2*					*30.0-136*	*03/20/2025 18:27*	WG2470390

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Su
8 Gl
9 Al
10 Sc

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226, Dissolved	0.139	U	0.239	0.379	0.442	0.152	03/25/2025 18:28	WG2470961
(T) Barium	*96.9*					*30.0-143*	*03/25/2025 18:28*	WG2470961

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-228, Dissolved	0.473	J	0.451	0.769	0.839	0.438	03/25/2025 22:10	WG2470402
(T) Barium	*80.3*					*30.0-143*	*03/25/2025 22:10*	WG2470402
(T) Yttrium	*95.7*					*30.0-136*	*03/25/2025 22:10*	WG2470402

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.352	J	0.430	0.577	0.724	0.287	03/20/2025 19:53	WG2470430
(T) Barium	*88.1*					*30.0-143*	*03/20/2025 19:53*	WG2470430

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.442	J	0.337	0.635	0.642	0.337	03/20/2025 18:27	WG2470390
(T) Barium	*96.0*					*30.0-143*	*03/20/2025 18:27*	WG2470390
(T) Yttrium	*90.0*					*30.0-136*	*03/20/2025 18:27*	WG2470390

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.255	J	0.300	0.448	0.489	0.168	03/20/2025 19:53	WG2470430
(T) Barium	*86.5*					*30.0-143*	*03/20/2025 19:53*	WG2470430

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.107	U	0.297	0.610	0.582	0.308	03/20/2025 18:27	WG2470390
(T) Barium	*87.5*					*30.0-143*	*03/20/2025 18:27*	WG2470390
(T) Yttrium	*89.8*					*30.0-136*	*03/20/2025 18:27*	WG2470390

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226, Dissolved	0.0965	U	0.299	0.442	0.594	0.225	03/25/2025 18:28	WG2470961
(T) Barium	*92.3*					*30.0-143*	*03/25/2025 18:28*	WG2470961

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-228, Dissolved	-0.100	U	0.302	0.580	0.579	0.304	03/25/2025 22:10	WG2470402
(T) Barium	*101*					*30.0-143*	*03/25/2025 22:10*	WG2470402
(T) Yttrium	*105*					*30.0-136*	*03/25/2025 22:10*	WG2470402

Method Blank (MB)

(MB) R4196036-1 03/20/25 14:51

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.319		0.186	0.188	0.0572
(T) Barium	*94.7*		*94.7*		

L1835187-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1835187-06 03/20/25 19:53 • (DUP) R4196036-3 03/20/25 15:52

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.255	0.300	0.489	0.168	1.26	0.735	0.741	0.226	133	1.26		20	3
(T) Barium	*86.5*				*94.7*	*94.7*							

Laboratory Control Sample (LCS)

(LCS) R4196036-2 03/20/25 14:51

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.90	118	80.0-120	
(T) Barium			*95.7*		

L1835110-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1835110-03 04/04/25 13:32 • (MS) R4196036-4 04/04/25 13:32 • (MSD) R4196036-5 04/04/25 13:32

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.565	18.6	24.5	90.3	120	1	75.0-125		J3	27.2		20
(T) Barium		*91.3*			*91.4*	*84.0*							

QUALITY CONTROL SUMMARY

L1835187-02,04,07

Method Blank (MB)

(MB) R4191047-1 03/25/25 14:27

Analyte	MB Result	MB Qualifier	MB 2 sigma CE	MB MDA	MB Lc
	pCi/l		+ / -	pCi/l	pCi/l
Radium-226	0.0463	U	0.144	0.285	0.108
(T) Barium	*101*		*101*		

L1835200-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1835200-02 03/25/25 19:28 • (DUP) R4191047-5 03/25/25 15:27

Analyte	Original Result	Original 2 sigma CE	Original MDA	Original Lc	DUP Result	DUP 2 sigma CE	DUP MDA	DUP Lc	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	pCi/l	+ / -	pCi/l	pCi/l	%			%	
Radium-226	0.226	0.319	0.556	0.211	0.000	0.536	1.19	0.451	200	0.362	U	20	3
(T) Barium	*96.9*				*94.7*	*94.7*							

Laboratory Control Sample (LCS)

(LCS) R4191047-2 03/25/25 14:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.00	5.22	104	80.0-120	
(T) Barium			*101*		

L1834569-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1834569-04 03/25/25 16:27 • (MS) R4191047-3 03/25/25 14:27 • (MSD) R4191047-4 03/25/25 14:27

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	-0.0951	19.6	19.9	98.1	99.7	1	75.0-125			1.67		20
(T) Barium		*95.2*			*99.3*	*98.3*							

Method Blank (MB)

(MB) R4189148-1 03/20/25 18:27

Analyte	MB Result	MB Qualifier	MB 2 sigma CE	MB MDA	MB Lc
	pCi/l		+ / -	pCi/l	pCi/l
Radium-228	0.0951	U	0.146	0.283	0.149
(T) Barium	*103*		*103*		
(T) Yttrium	*88.7*		*88.7*		

L1836138-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1836138-02 03/20/25 18:27 • (DUP) R4189148-5 03/20/25 18:27

Analyte	Original Result	Original 2 sigma CE	Original MDA	Original Lc	DUP Result	DUP 2 sigma CE	DUP MDA	DUP Lc	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	pCi/l	+ / -	pCi/l	pCi/l	%			%	
Radium-228	0.0758	0.358	0.698	0.366	-0.329	0.388	0.764	0.398	200	0.767	U	20	3
(T) Barium	*88.8*				*94.4*	*94.4*							
(T) Yttrium	*92.6*				*88.7*	*88.7*							

Laboratory Control Sample (LCS)

(LCS) R4189148-2 03/20/25 18:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-228	5.00	4.22	84.5	80.0-120	
(T) Barium			*102*		
(T) Yttrium			*96.3*		

L1835110-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1835110-03 03/20/25 18:27 • (MS) R4189148-3 03/20/25 18:27 • (MSD) R4189148-4 03/20/25 18:27

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-228	16.7	1.06	17.5	17.0	98.2	95.5	1	70.0-130			2.61		20
(T) Barium		*92.6*			*102*	*94.0*							
(T) Yttrium		*85.0*			*88.4*	*89.1*							

Method Blank (MB)

(MB) R4192571-1 03/25/25 22:10

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.375	U	0.184	0.362	0.189
(T) Barium	*92.0*		*92.0*		
(T) Yttrium	*97.3*		*97.3*		

L1835703-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1835703-03 03/25/25 22:10 • (DUP) R4192571-5 03/25/25 22:10

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.629	0.399	0.736	0.383	0.932	0.554	1.02	0.541	38.8	0.443	J	20	3
(T) Barium	*101*				*83.2*	*83.2*							
(T) Yttrium	*92.1*				*101*	*101*							

Laboratory Control Sample (LCS)

(LCS) R4192571-2 03/25/25 22:10

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.52	90.5	80.0-120	
(T) Barium			*103*		
(T) Yttrium			*100*		

L1834569-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1834569-04 03/25/25 22:10 • (MS) R4192571-3 03/25/25 22:10 • (MSD) R4192571-4 03/25/25 22:10

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	-0.545	15.8	15.6	94.6	93.6	1	70.0-130			1.02		20
(T) Barium		*102*			*100*	*99.1*							
(T) Yttrium		*97.1*			*86.3*	*96.0*							

903.0/9315 Radiochemistry

Radiochemistry Raw Data

RADIUM-226

SDG: WG2470430
METHOD: EPA 903.0/9315
ANALYST: ASN4036

	Ra226	2σCE	TPU	SDWA DL	Lc	mda	Units	date prep	date analysis	Analyst	
BACKGROUND DET A	0.000	0.101		0.172	0.085	0.279	pCi/l	3/17/2025	3/20/2025	ASN4036	
BACKGROUND DET B	0.000	0.250		0.266	0.210	0.530	pCi/l	3/17/2025	3/20/2025	ASN4036	
BACKGROUND DET C	0.000	0.144		0.197	0.121	0.351	pCi/l	3/17/2025	3/20/2025	ASN4036	
BACKGROUND DET D	0.000	0.143		0.196	0.121	0.350	pCi/l	3/17/2025	3/20/2025	ASN4036	
RA-0070-WS-903-1	572.74	11.043		0.222	0.053	0.272	pCi/l	3/17/2025	3/20/2025	ASN4036	**98.6%**
RA-0070-WS-903-2	558.07	10.883		0.257	0.129	0.423	pCi/l	3/17/2025	3/20/2025	ASN4036	**96.1%**
RA-0070-WS-903-3	579.99	11.069		0.223	0.074	0.313	pCi/l	3/17/2025	3/20/2025	ASN4036	**99.9%**
RA-0070-WS-903-4	583.85	11.166		0.231	0.075	0.316	pCi/l	3/17/2025	3/20/2025	ASN4036	**100.5%**
[redacted]								3/17/2025	[redacted]	ASN4036	
BLANK WG2470430	0.319	0.186	0.327	0.115	0.057	0.188	pCi/l	3/17/2025	3/20/2025	ASN4036	
LCS WG2470430	5.903	0.764	0.904	0.177	0.140	0.353	pCi/l	3/17/2025	3/20/2025	ASN4036	
MS L1835110-03 WG2470430	18.620	1.728	1.872	0.196	0.097	0.318	pCi/l	3/17/2025	4/4/2025	ASN4036	
MSD L1835110-03 WG2470430	24.477	2.095	2.246	0.330	0.261	0.657	pCi/l	3/17/2025	4/4/2025	ASN4036	
DUP L1835187-06 WG2470430	1.259	0.735	0.876	0.456	0.226	0.741	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1834622-05 WG2470430	3.800	0.881	1.018	0.335	0.265	0.667	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1834622-06 WG2470430	3.045	0.757	0.894	0.247	0.152	0.442	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1834622-07 WG2470430	1.150	0.485	0.622	0.247	0.152	0.441	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1834622-08 WG2470430	0.323	0.271	0.409	0.217	0.108	0.353	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1834625-01 WG2470430	0.000	0.311	0.448	0.331	0.262	0.660	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1834625-02 WG2470430	0.775	0.410	0.547	0.245	0.151	0.437	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1834625-03 WG2470430	0.364	0.309	0.446	0.244	0.150	0.436	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1834625-04 WG2470430	0.448	0.304	0.441	0.211	0.105	0.343	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1834625-05 WG2470430	0.000	0.308	0.445	0.327	0.259	0.652	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1835110-01 WG2470430	2.567	0.717	0.859	0.260	0.160	0.464	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1835110-03 WG2470430	0.565	0.228	0.372	0.112	0.069	0.200	pCi/l	3/17/2025	4/4/2025	ASN4036	
L1835110-05 WG2470430	3.239	0.764	0.903	0.215	0.106	0.349	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1835110-07 WG2470430	2.151	0.680	0.818	0.324	0.256	0.645	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1835110-09 WG2470430	3.524	0.797	0.934	0.239	0.147	0.427	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1835187-01 WG2470430	0.201	0.279	0.425	0.270	0.166	0.482	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1835187-03 WG2470430	0.574	0.369	0.519	0.246	0.122	0.399	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1835187-05 WG2470430	0.352	0.430	0.577	0.363	0.287	0.724	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1835187-06 WG2470430	0.255	0.300	0.448	0.273	0.168	0.489	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1835276-01 WG2470430	0.184	0.255	0.396	0.247	0.152	0.441	pCi/l	3/17/2025	3/20/2025	ASN4036	
L1835496-01 WG2470430	0.912	0.408	0.545	0.204	0.101	0.332	pCi/l	3/17/2025	3/20/2025	ASN4036	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#####	pCi/l	3/17/2025	1/0/1900	ASN4036	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#####	pCi/l	3/17/2025	1/0/1900	ASN4036	
RA-0070-WS-903-1	553.235	10.853	10.990	0.222	0.053	0.272	pCi/l	3/17/2025	4/4/2025	ASN4036	**95.3%**
RA-0070-WS-903-2	551.274	10.816	10.954	0.258	0.129	0.423	pCi/l	3/17/2025	4/4/2025	ASN4036	**94.9%**
RA-0070-WS-903-3	569.432	10.968	11.105	0.228	0.074	0.313	pCi/l	3/17/2025	4/4/2025	ASN4036	**98.1%**
RA-0070-WS-903-4	561.616	10.951		0.231	0.075	0.316	pCi/l	3/17/2025	4/4/2025	ASN4036	**96.7%**
BACKGROUND DET A	0.146	0.175		0.000	0.085	0.279	pCi/l	3/17/2025	4/4/2025	ASN4036	
BACKGROUND DET B	-0.037	0.239		0.000	0.210	0.530	pCi/l	3/17/2025	4/4/2025	ASN4036	
BACKGROUND DET C	0.000	0.144		0.000	0.121	0.351	pCi/l	3/17/2025	4/4/2025	ASN4036	
BACKGROUND DET D	-0.037	0.124		0.000	0.121	0.350	pCi/l	3/17/2025	4/4/2025	ASN4036	

Radium EPA 903.0/9315
SDG: WG2470430
METHOD: EPA 903.0/9315
ANALYST: ASN4036
Prep Date: 03/17/25

Detector	EFF	BKG COUNTS	COUNT TIME	BKG CPM
Detector A	20.6%	1	60	0.017
Detector B	20.4%	6	60	0.100
Detector C	20.5%	2	60	0.033
Detector D	20.5%	2	60	0.033

If Background is 0 use 1.

Ba Carrier ID: 25C14200
Standardization Date 3/17/2025 8:25

planchet tare	planchet gross	net weight
0.08280	0.13658	0.05378
0.08291	0.13688	0.05397
0.08295	0.13678	0.05383
	ave =	0.05386

id	sample size	alpha counts	count time	ppt time	time count end		igf	Detector #	CPM back	Bkg Counts	eff	planchet tare (g)	planchet gross (g)	net weight(g)	ba rec	Ba Rec use	
BACKGROUND DET A	1.000	1	60	3/20/25 11:03	3/20/25 11:03	0	1.000	A	0.017	1.0	20.6%			0.00000	100.0%	100.0%	BACKGROUND DET A
BACKGROUND DET B	1.000	6	60	3/20/25 11:03	3/20/25 11:03	0	1.000	B	0.100	6.0	20.4%			0.00000	100.0%	100.0%	BACKGROUND DET B
BACKGROUND DET C	1.000	2	60	3/20/25 11:03	3/20/25 11:03	0	1.000	C	0.033	2.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET C
BACKGROUND DET D	1.000	2	60	3/20/25 11:03	3/20/25 11:03	0	1.000	D	0.033	2.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET D
RA-0070-WS-903-1	1.000	10335	10	4/6/21 14:15	3/20/25 13:41	34655	4.000	A	0.017	0.2	20.6%			0.00000	98.6%	98.6%	RA-0070-WS-903-1
RA-0070-WS-903-2	1.000	10105	10	4/6/21 14:15	3/20/25 13:41	34655	4.000	B	0.100	1.0	20.4%			0.00000	100.6%	100.0%	RA-0070-WS-903-2
RA-0070-WS-903-3	1.000	10548	10	4/6/21 14:15	3/20/25 13:41	34655	4.000	C	0.033	0.3	20.5%			0.00000	102.2%	100.0%	RA-0070-WS-903-3
RA-0070-WS-903-4	1.000	10505	10	4/6/21 14:15	3/20/25 13:41	34655	4.000	D	0.033	0.3	20.5%			0.00000	98.6%	98.6%	RA-0070-WS-903-4
						0	1.000								0.0%		
BLANK WG2470430	1.000	14	60	3/19/25 10:55	3/20/25 14:51	28	1.571	A	0.017	1.0	20.6%	0.08364	0.13463	0.05099	94.7%	94.7%	BLANK WG2470430
LCS WG2470430	1.000	247	60	3/19/25 10:55	3/20/25 14:51	28	1.571	B	0.100	6.0	20.4%	0.08363	0.13518	0.05155	95.7%	95.7%	LCS WG2470430
MS L1835110-03 WG2470430	0.250	449	60	3/19/25 10:55	4/4/25 13:32	387	3.838	A	0.017	1.0	20.6%	0.08372	0.13293	0.04921	91.4%	91.4%	MS L1835110-03 WG2470430
MSD L1835110-03 WG2470430	0.250	542	60	3/19/25 10:55	4/4/25 13:32	387	3.838	B	0.100	6.0	20.4%	0.08378	0.12904	0.04526	84.0%	84.0%	MSD L1835110-03 WG2470430
DUP L1835187-06 WG2470430	0.250	14	60	3/19/25 10:55	3/20/25 15:52	29	1.589	A	0.017	1.0	20.6%	0.08362	0.13463	0.05101	94.7%	94.7%	DUP L1835187-06 WG2470430
L1834622-05 WG2470430	0.500	88	60	3/19/25 10:55	3/20/25 15:52	29	1.589	B	0.100	6.0	20.4%	0.08368	0.1547	0.07102	131.9%	100.0%	L1834622-05 WG2470430
L1834622-06 WG2470430	0.500	68	60	3/19/25 10:55	3/20/25 15:52	29	1.589	C	0.033	2.0	20.5%	0.08394	0.15012	0.06618	122.9%	100.0%	L1834622-06 WG2470430
L1834622-07 WG2470430	0.500	27	60	3/19/25 10:55	3/20/25 15:52	29	1.589	D	0.033	2.0	20.5%	0.08367	0.13955	0.05588	103.8%	100.0%	L1834622-07 WG2470430
L1834622-08 WG2470430	0.500	8	60	3/19/25 10:55	3/20/25 16:52	30	1.607	A	0.017	1.0	20.6%	0.08381	0.13675	0.05294	98.3%	98.3%	L1834622-08 WG2470430
L1834625-01 WG2470430	0.500	6	60	3/19/25 10:55	3/20/25 16:52	30	1.607	B	0.100	6.0	20.4%	0.08379	0.13765	0.05386	100.0%	100.0%	L1834625-01 WG2470430
L1834625-02 WG2470430	0.500	19	60	3/19/25 10:55	3/20/25 16:52	30	1.607	C	0.033	2.0	20.5%	0.08371	0.13886	0.05515	102.4%	100.0%	L1834625-02 WG2470430
L1834625-03 WG2470430	0.500	10	60	3/19/25 10:55	3/20/25 16:52	30	1.607	D	0.033	2.0	20.5%	0.08354	0.19317	0.10963	203.5%	100.0%	L1834625-03 WG2470430
L1834625-04 WG2470430	0.500	11	60	3/19/25 10:55	3/20/25 17:52	31	1.625	A	0.017	1.0	20.6%	0.08356	0.20896	0.12540	232.8%	100.0%	L1834625-04 WG2470430
L1834625-05 WG2470430	0.500	6	60	3/19/25 10:55	3/20/25 17:52	31	1.625	B	0.100	6.0	20.4%	0.08377	0.21585	0.13208	245.2%	100.0%	L1834625-05 WG2470430
L1835110-01 WG2470430	0.500	55	60	3/19/25 10:55	3/20/25 17:52	31	1.625	C	0.033	2.0	20.5%	0.08364	0.1338	0.05016	93.1%	93.1%	L1835110-01 WG2470430
L1835110-03 WG2470430	0.500	29	60	3/19/25 10:55	4/4/25 13:32	387	3.838	C	0.033	2.0	20.5%	0.08385	0.13304	0.04919	91.3%	91.3%	L1835110-03 WG2470430
L1835110-05 WG2470430	0.500	72	60	3/19/25 10:55	3/20/25 18:53	32	1.643	A	0.017	1.0	20.6%	0.08363	0.13598	0.05235	97.2%	97.2%	L1835110-05 WG2470430
L1835110-07 WG2470430	0.500	54	60	3/19/25 10:55	3/20/25 18:53	32	1.643	B	0.100	6.0	20.4%	0.08395	0.14157	0.05762	107.0%	100.0%	L1835110-07 WG2470430
L1835110-09 WG2470430	0.500	81	60	3/19/25 10:55	3/20/25 18:53	32	1.643	C	0.033	2.0	20.5%	0.08395	0.13868	0.05473	101.6%	100.0%	L1835110-09 WG2470430
L1835187-01 WG2470430	0.500	6	60	3/19/25 10:55	3/20/25 18:53	32	1.643	D	0.033	2.0	20.5%	0.08382	0.13143	0.04761	88.4%	88.4%	L1835187-01 WG2470430
L1835187-03 WG2470430	0.500	12	60	3/19/25 10:55	3/20/25 19:53	33	1.661	A	0.017	1.0	20.6%	0.08374	0.12902	0.04528	84.1%	84.1%	L1835187-03 WG2470430
L1835187-05 WG2470430	0.500	13	60	3/19/25 10:55	3/20/25 19:53	33	1.661	B	0.100	6.0	20.4%	0.08384	0.13131	0.04747	88.1%	88.1%	L1835187-05 WG2470430
L1835187-06 WG2470430	0.500	7	60	3/19/25 10:55	3/20/25 19:53	33	1.661	C	0.033	2.0	20.5%	0.0836	0.1302	0.04660	86.5%	86.5%	L1835187-06 WG2470430
L1835276-01 WG2470430	0.500	6	60	3/19/2025 10:55	03/20/2025 19:53	33	1.661	D	0.033	2.0	20.5%	0.08398	0.13542	0.05144	95.5%	95.5%	L1835276-01 WG2470430
L1835496-01 WG2470430	0.500	22	60	3/19/2025 10:55	03/20/2025 20:53	34	1.679	A	0.017	1.0	20.6%	0.08385	0.14127	0.05742	106.6%	100.0%	L1835496-01 WG2470430
						0	1.000		FALSE	0.0	FALSE			0.00000	0.0%	0.0%	0
						0	1.000		FALSE	0.0	FALSE			0.00000	0.0%	0.0%	0
RA-0070-WS-903-1	1.000	9983	10	4/6/21 14:15	4/4/25 14:54	35017	4.000	A	0.017	0.2	20.6%			0.00000	98.6%	98.6%	RA-0070-WS-903-1
RA-0070-WS-903-2	1.000	9982	10	4/6/21 14:15	4/4/25 14:54	35017	4.000	B	0.100	1.0	20.4%			0.00000	100.6%	100.0%	RA-0070-WS-903-2
RA-0070-WS-903-3	1.000	10356	10	4/6/21 14:15	4/4/25 14:54	35017	4.000	C	0.033	0.3	20.5%			0.00000	102.2%	100.0%	RA-0070-WS-903-3
RA-0070-WS-903-4	1.000	10105	10	4/6/21 14:15	4/4/25 14:54	35017	4.000	D	0.033	0.3	20.5%			0.00000	98.6%	98.6%	RA-0070-WS-903-4
BACKGROUND DET A	1.000	5	60	4/4/25 14:33	4/4/25 14:33	0	1.000	A	0.017	1.0	20.6%			0.00000	100.0%	100.0%	BACKGROUND DET A
BACKGROUND DET B	1.000	5	60	4/4/25 14:33	4/4/25 14:33	0	1.000	B	0.100	6.0	20.4%			0.00000	100.0%	100.0%	BACKGROUND DET B
BACKGROUND DET C	1.000	2	60	4/4/25 14:33	4/4/25 14:33	0	1.000	C	0.033	2.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET C
BACKGROUND DET D	1.000	1	60	4/4/25 14:33	4/4/25 14:33	0	1.000	D	0.033	2.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET D
																	0

QC REPORT

ANALYTE: **Ra226**
METHOD: **EPA 903.0/9315**
SDG: **WG2470430**
UNITS: **pCi/L**
STD ID: **24D09038** Vol. **1** ml

	Ra226	2σCE	TPU	SDWA DL	Lc	mda	known	%REC	LIMITS LOW	LIMITS HIGH	RPD	LIMITS	RER	LIMITS
BLANK WG2470430	0.319	0.186	0.327	0.115	0.057	0.188								
LCS WG2470430	5.903	0.764	0.904	0.177	0.140	0.353	**5.00**	**118.0%**	80%	120%				
L1835187-06 WG2470430	0.255	0.300	0.448	0.273	0.168	0.489								
DUP L1835187-06 WG2470430	1.259	0.735	0.876	0.456	0.226	0.741					NC	20%	**1.264**	3
L1835110-03 WG2470430	0.565	0.228	0.372	0.112	0.069	0.200								
MS L1835110-03 WG2470430	18.620	1.728	1.872	0.196	0.097	0.318	**20.0**	**90.2%**	75%	125%				
MSD L1835110-03 WG2470430	24.477	2.095	2.246	0.330	0.261	0.657	**20.0**	**119.5%**	75%	125%	27.18%			

*** - Outside Control Limits**

DECAY CALCUALTION

Ra226 Source
No.3613
ml HCl 41.66667
24D09038

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 08-Apr-24
DATE OF CALIBRATION 17-Mar-25

Ao =	588.69	pCi/ml
N =	0.00	
T(1/2) =	1600.00	years
T =	0.94	years
Standard Volume	8.50	
Final Volume =	1000.00	
dilution =	117.65	
A =	588.454	pCi/ml
A =	11.104	dpm/ml
A =	5.00	pCi/ml

A = 5.00 pCi/ml

Uncertainty	3.70%
Weight	0.00%
Volume (1000 ml	0.03%
Volume (100 ml /	0.40%
Volume (1000 ml	0.03%
CSU	3.72%

Activity 5.00 +/- 0.186 pCi/ml

Amersham International

ESC37429

Certificate of calibration of radioactive reference solution

M 29913

NAMAS CALIBRATION No. 0110

Description	Principal radionuclide:	Radium 226	Product code: RAY 94
			Solution number: R/013/127
Measurement	Reference time:	1200 GMT on 19 February 1998	
	Radioactive concentration of radium-226:	4.37n	kilobecquerels per gram of solution
	which is equivalent to:	118.3	nanocuries per gram of solution
	Mass of solution:	5.0345	grams
	Total activity of radium-226:	22.03	kilobecquerels
	which is equivalent to:	595.4	nanocuries
	Recommended half life:	1600.00	years

Method of measurement:
The activity of the solution was measured in a high pressure re-entrant ionisation chamber calibrated with a large number of absolutely standardised solutions.

Accuracy: Overall uncertainty in the radioactive concentration quoted above: ± 3.7 %

Random uncertainty: ± 0.7 % Systematic uncertainty: ± 3.0 %

The limits of overall uncertainty were taken as the arithmetic sum of the uncertainty due to random variations, calculated at the 99.7% confidence level, and the estimated systematic uncertainties in the measurement.

Radionuclidic Purity: The estimated activities of any radioactive impurities found by high-resolution gamma ray spectrometry, or in any other examination of the solution, are listed below expressed as percentages of the activity of the principal radionuclide at the reference time.

Chemical Composition: Carrier free in 0.5M HCl

Remarks: At the reference date radium 226 was shown to be in radioactive equilibrium with its daughter nuclides down the decay chain to polonium-214 and thallium-210, the precursors of lead-210. The ionisation chamber was calibrated using a standard supplied by the National Institute of Standards and Technology, Washington DC, U.S.A.

This product meets the quality assurance requirements of the NRC Regulatory Guide 4.15 for achieving implicit NIST traceability as defined in NCRP 58 (1985).

Issuer Signatory

B D D Singleton

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APR 0 2 1998

Amersham
The Health Science Group

Calibration Data EPA 903/9315

id	sample size	counts	time	ppt time	count time	Hours	igf	det	BKG	planchet tare	planchet gross	ba rec	eff		
RA-0070-WS-903-1	1	16166	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	A	0.083	7.85288	7.91579	98.6%	20.9%	0.06291	
RA-0070-WS-903-4	1	15891	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	A	0.083	7.85288	7.91579	98.6%	20.5%	0.06291	
RA-0070-WS-903-3	1	15850	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	A	0.083	7.86129	7.92648	102.2%	20.5%	0.06519	Avg
RA-0070-WS-903-2	1	15849	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	A	0.083	7.84269	7.90683	100.6%	20.5%	0.06414	
												100.0%	**20.6%**	0.06379	
RA-0070-WS-903-2	1	15429	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	B	0.017				19.9%		
RA-0070-WS-903-1	1	15805	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	B	0.017				20.4%		
RA-0070-WS-903-4	1	15893	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	B	0.017				20.5%		
RA-0070-WS-903-3	1	15960	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	B	0.017				20.6%		
													20.4%		
RA-0070-WS-903-3	1	16033	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	C	0.033				20.7%		
RA-0070-WS-903-2	1	15587	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	C	0.033				20.1%		
RA-0070-WS-903-1	1	15727	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	C	0.033				20.3%		
RA-0070-WS-903-4	1	16022	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	C	0.033				20.7%		
													20.5%		
RA-0070-WS-903-4	1	16034	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	D	0.017				20.7%		
RA-0070-WS-903-3	1	15985	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	D	0.017				20.7%		
RA-0070-WS-903-2	1	15668	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	D	0.017				20.3%		
RA-0070-WS-903-1	1	15880	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	D	0.017				20.5%		
													20.5%		

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Source: Ra-226
Lot No. R4/131/35
ID: **RA-0070-WS1**
19L06745

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 01-Nov-16
DATE OF CALIBRATION 30-Jan-25

Ao =	58.28	nCi
N =	0.00	
T(1/2) =	1600.00	years
T =	8.25	years
VOLUME OF STD	1.00	
FINAL VOL	100.00	
dilution =	100.00	

A =	58.07	nCi
A =	1289.22	dpm/ml
A =	**581**	pCi/ml

Uncertainty 3.70%

Volume 0.04%

CSU 3.70%

Activity 581 +/- 21 pCi/ml

1 AD 1 x 5mL

RH-0065-V5

Amersham International plc
Amersham Laboratories

Certificate of calibration of radioactive reference solution

M 28796

NAMAS
CALIBRATION
No. 0144

ESC38625

Description	Principal radionuclide:	Radium-226	Product code: RAY.44
			Solution number: R4/131/35
Measurement	Reference time:		1200 GMT on 2 September 1936
	Radioactive concentration of radium-226:	43.80	kilobecquerels per gram of solution
	which is equivalent to:	1.184	microcuries per gram of solution
	Mass of solution:	5.0330	grams
	Total activity of radium-226:	220.5	kilobecquerels
	which is equivalent to:	5.959	microcuries
	Recommended half life:	1600	years

Method of measurement used:
The activity of the solution was measured in a high pressure re-entrant ionisation chamber calibrated with a large number of absolutely standardised solutions.

ENVIRONMENTAL

Accuracy: Overall uncertainty in the radioactive concentration quoted above: ± 3.7 %

Random uncertainty: ± 0.7 % Systematic uncertainty: ± 3.0 %

The limits of overall uncertainty were taken as the arithmetic sum of the uncertainty due to random variations, calculated at the 99.7% confidence level, and the estimated systematic uncertainties in the measurement.

Radionuclidic Purity: The estimated activities of any radioactive impurities found by high resolution gamma ray spectrometry, or in any other examination of the solution, are listed below expressed as percentages of the activity of the principal radionuclide at the reference time.

Chemical Composition: Carrier free in 0.5M HCl

Remarks: At the reference time radium-226 was shown to be in radioactive equilibrium with its daughter nuclides down the decay chain to polonium-214 and thallium 210, the precursors of lead-210. The ionisation chamber was calibrated using a standard supplied by the National Institute of Standards and Technology, Washington DC, USA.

This product meets the quality assurance requirements of the NRC Regulatory Guide 4.15 for achieving implicit NIST traceability as defined in NCRP 58 (1985).

Approved Signatory:

W F Case

W F Case

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Amersham
The Health Science Group

View as PDF (CreatePDF?batchnum=WG2470430)

RA-226 903.0 Radiochemistry Prep Benchsheet

Batch: WG2470430

Analyst: LAG4246 Prep Start Date/Time: 03/17/25 14:27-14:29 Prep End Date/Time: 03/19/25 14:37 Method: EPA 903.0 SOP: ENV-SOP-MTJL-0353/0370 Pipet ID: E-11, E-22, E-14 Bal ID: RADBAL6
Stirrer ID's: St38, St45, St46 Hot Plate ID: HP19, St40,St41 Centrifuge ID: C6 Centrifuge Tube Lot: 920142 Transfer Pipette Lot: 24180063 1mL e-Pipet Tip Log: 2243 2mL e-Pipet Tip Lot: 2418 10mL e-Pipet Tip Lot: 2332
10mL Manual Pipet Lot: P7601073 pH Lot: 10BDH3921 Filter Lot#: F4KB68830 Filter Lot#: na Oven ID: Ra-226

LCS/D Standard: 24D09038 Amt. Used: 1 mL Exp. Date:04/09/25 MS/D Standard: 24D09038 Amt. Used: 1 mL Exp. Date:04/09/25 16 mg/mL Barium Carrier: 25C14200 Amt. Used: 2 Exp. Date:05/31/25
Lead Nitrate Carrier: 24J25400 Amt. Used: 1 Exp. Date:10/25/25 Citric Acid: 25C17500 Amt. Used: 5 Exp. Date:09/30/25 1:1 H2SO4: 25C11576 Amt. Used: 20 Exp. Date:03/11/26 Methyl Orange: 24L05047 Amt. Used: 0.50 Exp. Date:12/05/25
0.25M EDTA: 25C18611 Amt. Used: 15 Exp. Date:03/18/26 200 mg/mL Ammonium Sulfate: 24K06043 Amt. Used: 1 Exp. Date:11/06/25 Bromocresol Green: 24L05046 Amt. Used: 0.50 Exp. Date:12/05/25
Acetic Acid: 25A06030 Amt. Used: 3 Exp. Date:06/19/26 HNO3: 25C12757 Amt. Used: 20 Exp. Date:09/30/29 5N Ammonium Hydroxide: 25C12721 Amt. Used: 3 Exp. Date:03/12/26

Sample Number	Collect Date	Sample Volume (mL)	Precipitation Time	Tare Wt (g)	Gross Wt (g)	Final Wt (g)	Review Analyst	Review Date
BLANK		1000	3/19/2025 10:55	0.08364	0.13463	0.05099	ASN4036	03/21/25 14:20:47
LCS		1000	3/19/2025 10:55	0.08363	0.13518	0.05155	ASN4036	03/21/25 14:20:47
MS(L1835110-03)		250	3/19/2025 10:55	0.08372	0.13293	0.04921	ASN4036	03/21/25 14:20:47
MSD(L1835110-03)		250	3/19/2025 10:55	0.08378	0.12904	0.04526	ASN4036	03/21/25 14:20:47
DUP(L1835187-06)		250	3/19/2025 10:55	0.08362	0.13463	0.05101	ASN4036	03/21/25 14:20:47
1. L1834622-05	03/05/25 10:30	500	3/19/2025 10:55	0.08368	0.15470	0.07102	ASN4036	03/21/25 14:20:47
2. L1834622-06	03/05/25 09:50	500	3/19/2025 10:55	0.08394	0.15012	0.06618	ASN4036	03/21/25 14:20:47
3. L1834622-07	03/05/25 09:00	500	3/19/2025 10:55	0.08367	0.13955	0.05588	ASN4036	03/21/25 14:20:47
4. L1834622-08	03/05/25 08:20	500	3/19/2025 10:55	0.08381	0.13675	0.05294	ASN4036	03/21/25 14:20:47
5. L1834625-01	03/06/25 07:55	500	3/19/2025 10:55	0.08379	0.13765	0.05386	ASN4036	03/21/25 14:20:47
6. L1834625-02	03/06/25 08:35	500	3/19/2025 10:55	0.08371	0.13886	0.05515	ASN4036	03/21/25 14:20:47
7. L1834625-03	03/06/25 09:25	500	3/19/2025 10:55	0.08354	0.19317	0.10963	ASN4036	03/21/25 14:20:47
8. L1834625-04	03/06/25 10:30	500	3/19/2025 10:55	0.08356	0.20896	0.1254	ASN4036	03/21/25 14:20:47
9. L1834625-05	03/06/25 12:10	500	3/19/2025 10:55	0.08377	0.21585	0.13208	ASN4036	03/21/25 14:20:47
10. L1835110-01	03/11/25 11:15	500	3/19/2025 10:55	0.08364	0.13380	0.05016	ASN4036	03/21/25 14:20:47
11. L1835110-03	03/11/25 12:45	500	3/19/2025 10:55	0.08385	0.13304	0.04919	ASN4036	03/21/25 14:20:47
12. L1835110-05	03/11/25 11:00	500	3/19/2025 10:55	0.08363	0.13598	0.05235	ASN4036	03/21/25 14:20:47
13. L1835110-07	03/11/25 12:25	500	3/19/2025 10:55	0.08395	0.14157	0.05762	ASN4036	03/21/25 14:20:47
14. L1835110-09	03/11/25 11:15	500	3/19/2025 10:55	0.08395	0.13868	0.05473	ASN4036	03/21/25 14:20:47
15. L1835187-01	03/11/25 12:40	500	3/19/2025 10:55	0.08382	0.13143	0.04761	ASN4036	03/21/25 14:20:47
16. L1835187-03	03/11/25 15:45	500	3/19/2025 10:55	0.08374	0.12902	0.04528	ASN4036	03/21/25 14:20:47
17. L1835187-05	03/11/25 15:45	500	3/19/2025 10:55	0.08384	0.13131	0.04747	ASN4036	03/21/25 14:20:47
18. L1835187-06	03/11/25 17:34	500	3/19/2025 10:55	0.08360	0.13020	0.0466	ASN4036	03/21/25 14:20:47
19. L1835276-01	03/06/25 09:30	500	3/19/2025 10:55	0.08398	0.13542	0.05144	ASN4036	03/21/25 14:20:47
20. L1835496-01	03/11/25 11:40	500	3/19/2025 10:55	0.08385	0.14127	0.05742	ASN4036	03/21/25 14:20:47

Comments:Reviewed By:ASN4036 on 03/21/25 14:20:47

G5020 Run Log Ra-226 Waters by 903.0 WG2470430

Sample Order Verified by ASN4036

Sample ID	Det	Alpha	LT	Analyst	Start	End	Notes
RA_BKG	A	1	60	ASN4036	3/20/2025 10:03	3/20/2025 11:03	
RA_BKG	B	6	60	ASN4036	3/20/2025 10:03	3/20/2025 11:03	
RA_BKG	C	2	60	ASN4036	3/20/2025 10:03	3/20/2025 11:03	
RA_BKG	D	2	60	ASN4036	3/20/2025 10:03	3/20/2025 11:03	
21E226752	A	10335	10	ASN4036	3/20/2025 13:31	3/20/2025 13:41	
21E226753	B	10105	10	ASN4036	3/20/2025 13:31	3/20/2025 13:41	
21E226754	C	10548	10	ASN4036	3/20/2025 13:31	3/20/2025 13:41	
21E226751	D	10505	10	ASN4036	3/20/2025 13:31	3/20/2025 13:41	
BLANK WG2470430	A	14	60	ASN4036	3/20/2025 13:51	3/20/2025 14:51	
LCS WG2470430	B	247	60	ASN4036	3/20/2025 13:51	3/20/2025 14:51	
DNR MS L1835110-03 WG2470430	C	191	60	ASN4036	3/20/2025 13:51	3/20/2025 14:51	
DNR MSD L1835110-03 WG2470430	D	217	60	ASN4036	3/20/2025 13:51	3/20/2025 14:51	
DUP L1835187-06 WG2470430	A	14	60	ASN4036	3/20/2025 14:52	3/20/2025 15:52	
L1834622-05 WG2470430	B	88	60	ASN4036	3/20/2025 14:52	3/20/2025 15:52	
L1834622-06 WG2470430	C	68	60	ASN4036	3/20/2025 14:52	3/20/2025 15:52	
L1834622-07 WG2470430	D	27	60	ASN4036	3/20/2025 14:52	3/20/2025 15:52	
L1834622-08 WG2470430	A	8	60	ASN4036	3/20/2025 15:52	3/20/2025 16:52	
L1834625-01 WG2470430	B	6	60	ASN4036	3/20/2025 15:52	3/20/2025 16:52	
L1834625-02 WG2470430	C	19	60	ASN4036	3/20/2025 15:52	3/20/2025 16:52	
L1834625-03 WG2470430	D	10	60	ASN4036	3/20/2025 15:52	3/20/2025 16:52	
L1834625-04 WG2470430	A	11	60	ASN4036	3/20/2025 16:52	3/20/2025 17:52	
L1834625-05 WG2470430	B	6	60	ASN4036	3/20/2025 16:52	3/20/2025 17:52	
L1835110-01 WG2470430	C	55	60	ASN4036	3/20/2025 16:52	3/20/2025 17:52	
DNR L1835110-03 WG2470430	D	109	60	ASN4036	3/20/2025 16:52	3/20/2025 17:52	14 Days
L1835110-05 WG2470430	A	72	60	ASN4036	3/20/2025 17:53	3/20/2025 18:53	
L1835110-07 WG2470430	B	54	60	ASN4036	3/20/2025 17:53	3/20/2025 18:53	
L1835110-09 WG2470430	C	81	60	ASN4036	3/20/2025 17:53	3/20/2025 18:53	
L1835187-01 WG2470430	D	6	60	ASN4036	3/20/2025 17:53	3/20/2025 18:53	
L1835187-03 WG2470430	A	12	60	ASN4036	3/20/2025 18:53	3/20/2025 19:53	
L1835187-05 WG2470430	B	13	60	ASN4036	3/20/2025 18:53	3/20/2025 19:53	
L1835187-06 WG2470430	C	7	60	ASN4036	3/20/2025 18:53	3/20/2025 19:53	
L1835276-01 WG2470430	D	6	60	ASN4036	3/20/2025 18:53	3/20/2025 19:53	
L1835496-01 WG2470430	A	22	60	ASN4036	3/20/2025 19:53	3/20/2025 20:53	
RA_BKG	A	2	60	ASN4036	3/20/2025 20:54	3/20/2025 21:54	
RA_BKG	B	5	60	ASN4036	3/20/2025 20:54	3/20/2025 21:54	
RA_BKG	C	0	60	ASN4036	3/20/2025 20:54	3/20/2025 21:54	
RA_BKG	D	3	60	ASN4036	3/20/2025 20:54	3/20/2025 21:54	
21E226752	A	10385	10	ASN4036	3/20/2025 22:05	3/20/2025 22:15	
21E226753	B	10262	10	ASN4036	3/20/2025 22:05	3/20/2025 22:15	
21E226754	C	10348	10	ASN4036	3/20/2025 22:05	3/20/2025 22:15	
21E226751	D	10316	10	ASN4036	3/20/2025 22:05	3/20/2025 22:15	
RA_BKG	A	4	60	ASN4036	4/2/2025 9:25	4/2/2025 10:25	
RA_BKG	B	7	60	ASN4036	4/2/2025 9:25	4/2/2025 10:25	
RA_BKG	C	2	60	ASN4036	4/2/2025 9:25	4/2/2025 10:25	
RA_BKG	D	3	60	ASN4036	4/2/2025 9:25	4/2/2025 10:25	
21E226752	A	10262	10	ASN4036	4/2/2025 11:11	4/2/2025 11:21	
21E226753	B	10078	10	ASN4036	4/2/2025 11:11	4/2/2025 11:21	
21E226754	C	10321	10	ASN4036	4/2/2025 11:11	4/2/2025 11:21	
21E226751	D	10427	10	ASN4036	4/2/2025 11:11	4/2/2025 11:21	
DNR MS L1835110-03 WG2470430	A	437	60	ASN4036	4/2/2025 11:23	4/2/2025 12:23	
DNR MSD L1835110-03 WG2470430	B	597	60	ASN4036	4/2/2025 11:23	4/2/2025 12:23	Rerun to Verify
DNR L1835110-03 WG2470430	C	1	60	ASN4036	4/2/2025 11:23	4/2/2025 12:23	
RA_BKG	A	3	60	ASN4036	4/2/2025 12:24	4/2/2025 13:24	
RA_BKG	B	3	60	ASN4036	4/2/2025 12:24	4/2/2025 13:24	
RA_BKG	C	2	60	ASN4036	4/2/2025 12:24	4/2/2025 13:24	
RA_BKG	D	2	60	ASN4036	4/2/2025 12:24	4/2/2025 13:24	
21E226752	A	10254	10	ASN4036	4/2/2025 13:35	4/2/2025 13:45	
21E226753	B	9874	10	ASN4036	4/2/2025 13:35	4/2/2025 13:45	
21E226754	C	10332	10	ASN4036	4/2/2025 13:35	4/2/2025 13:45	
21E226751	D	10137	10	ASN4036	4/2/2025 13:35	4/2/2025 13:45	
RA_BKG	A	3	60	ASN4036	4/4/2025 9:48	4/4/2025 10:48	
RA_BKG	B	4	60	ASN4036	4/4/2025 9:48	4/4/2025 10:48	
RA_BKG	C	2	60	ASN4036	4/4/2025 9:48	4/4/2025 10:48	
RA_BKG	D	1	60	ASN4036	4/4/2025 9:48	4/4/2025 10:48	
21E226752	A	9987	10	ASN4036	4/4/2025 12:21	4/4/2025 12:31	
21E226753	B	9937	10	ASN4036	4/4/2025 12:21	4/4/2025 12:31	
21E226754	C	10075	10	ASN4036	4/4/2025 12:21	4/4/2025 12:31	
21E226751	D	10282	10	ASN4036	4/4/2025 12:21	4/4/2025 12:31	
MS L1835110-03 WG2470430	A	449	60	ASN4036	4/4/2025 12:32	4/4/2025 13:32	
MSD L1835110-03 WG2470430	B	542	60	ASN4036	4/4/2025 12:32	4/4/2025 13:32	
L1835110-03 WG2470430	C	29	60	ASN4036	4/4/2025 12:32	4/4/2025 13:32	
RA_BKG	A	5	60	ASN4036	4/4/2025 13:33	4/4/2025 14:33	
RA_BKG	B	5	60	ASN4036	4/4/2025 13:33	4/4/2025 14:33	
RA_BKG	C	2	60	ASN4036	4/4/2025 13:33	4/4/2025 14:33	
RA_BKG	D	1	60	ASN4036	4/4/2025 13:33	4/4/2025 14:33	
21E226752	A	9983	10	ASN4036	4/4/2025 14:44	4/4/2025 14:54	
21E226753	B	9982	10	ASN4036	4/4/2025 14:44	4/4/2025 14:54	
21E226754	C	10356	10	ASN4036	4/4/2025 14:44	4/4/2025 14:54	
21E226751	D	10105	10	ASN4036	4/4/2025 14:44	4/4/2025 14:54	

G5020
Calibration 01/29

	High Voltage	Changed?	Chi Sq Passed?	Notes
Det A	1760	N	Y	
Det B	1760	N	Y	
Det C	1760	N	Y	
Det D	1760	N	Y	

Comments:

Det C and D brought back into service after maintenance 01/27/25

Collected by: _____ Date: ~~1/29/25~~ 1/29/25 1/29/2025

Approved by: _____ Date: 1/29/25

Detector Names G5020

Numerical:	Instrument:
1	1A
2	1B
3	1C
4	1D
5	2A
6	2B
7	2C
8	2D
9	3A
10	3B
11	3C
12	3D
13	4A
14	4B
15	4C
16	4D

Standards Used:
92SR4702137
92SR4702139
92SR4702136

High Voltage Plateau and Slope Calculation G5020

1/29/2025

Det1= 1A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	3070	3068	2	
1520	3472	3468	4	
1540	4012	4010	2	
1560	4349	4347	2	
1580	4885	4882	3	
1600	5124	5123	1	
1620	5531	5523	8	
1640	5737	5731	6	
1660	5781	5772	9	
1680	5821	5817	4	
1700	5992	5989	3	
1720	5891	5888	3	
1740	6067	6056	11	0.18%
1760	6162	6134	28	0.46%
1780	5962	5894	68	1.15%
1800	6214	6077	137	2.25%
1820	6044	5880	164	
1840	6196	6038	158	
1860	6106	5961	145	
1880	6198	6053	144	
1900	6297	6116	181	
1920	6108	5931	177	
1940	6258	6099	159	
1960	6264	6084	180	
1980	6058	5861	197	
2000	6067	5914	153	

	1740	1.47%	88
Slope Calc:	1760	0.13%	8
	1780	0.30%	18
	1800	2.88%	173

Det2= 1B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2152	2150	2	
1520	2596	2595	1	
1540	3027	3025	2	
1560	3491	3490	1	
1580	3954	3948	6	
1600	4332	4328	4	
1620	4639	4635	4	
1640	4959	4952	7	
1660	5304	5296	8	
1680	5541	5534	7	
1700	5387	5378	9	
1720	5397	5389	8	
1740	5665	5655	10	0.18%
1760	5614	5589	25	0.45%
1780	5723	5656	67	1.18%
1800	5874	5750	124	2.16%
1820	5814	5653	161	
1840	5826	5652	174	
1860	5704	5555	149	
1880	5745	5586	159	
1900	5813	5683	130	
1920	5793	5649	144	
1940	5771	5624	147	
1960	5709	5528	181	
1980	5801	5667	134	
2000	5827	5672	155	

	1740	6.68%	372
	1760	4.70%	264
	1780	0.05%	3
	1800	0.60%	34

Det3= 1C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2474	2471	3	
1520	2879	2876	3	
1540	3308	3307	1	
1560	3791	3789	2	
1580	4308	4302	6	
1600	4507	4501	6	
1620	4824	4814	10	
1640	5167	5160	7	
1660	5226	5221	5	
1680	5357	5350	7	
1700	5456	5451	5	
1720	5528	5524	4	
1740	5671	5658	13	0.23%
1760	5536	5501	35	0.64%
1780	5663	5597	66	1.18%
1800	5755	5608	147	2.62%
1820	5810	5633	177	
1840	5775	5609	166	
1860	5643	5458	185	
1880	5681	5507	174	
1900	5715	5523	192	
1920	5739	5540	199	
1940	5686	5507	179	
1960	5793	5626	167	
1980	5670	5500	170	
2000	5719	5522	197	

	1740	2.83%	157
	1760	1.95%	109
	1780	0.87%	49
	1800	0.77%	43

Det4= 1D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2322	2320	2	
1520	2689	2686	3	
1540	3201	3201	0	
1560	3550	3550	0	
1580	4161	4154	7	
1600	4386	4384	2	
1620	4707	4704	3	
1640	5047	5043	4	
1660	5368	5360	8	
1680	5379	5374	5	
1700	5530	5525	5	
1720	5696	5688	8	
1740	5762	5746	16	0.28%
1760	5639	5626	13	0.23%
1780	5820	5761	59	1.02%
1800	5751	5581	170	3.05%
1820	5750	5573	177	
1840	5798	5622	176	
1860	5980	5801	179	
1880	5890	5707	183	
1900	5879	5708	171	
1920	5824	5644	180	
1940	5849	5674	175	
1960	5841	5663	178	
1980	5710	5527	182	
2000	5792	5628	164	

	1740	0.99%	56
	1760	2.03%	115
	1780	2.19%	124
	1800	3.09%	175

DECAY CALCUALTION

Sr-90/Y90
No. 92SR470-2137

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 11-May-92
DATE OF CALIBRATION 29-Jan-25

			uncert	
Ao =	23800	dpm	1190	dpm
N =	0.02		0.02	
T(1/2) =	28.60	years	28.60	years
T =	32.74	years	32.74	years
dilution =	1.00		1.00	
A =	10765.11	dpm	538.26	dpm

CPM Acceptance Range

2368.3	118.42	
2131.5	**2013**	**Low**
2605.2	**2724**	**High**

Approval: _____ Date:_____

DECAY CALCUALTION

Sr-90/Y90
No. 92SR470-2139

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 03-Jun-92
DATE OF CALIBRATION 29-Jan-25

			uncert	
Ao =	20700	dpm	1040	dpm
N =	0.02		0.02	
T(1/2) =	28.60	years	28.60	years
T =	32.68	years	32.68	years
dilution =	1.00		1.00	
A =	9377.24	dpm	471.13	dpm

CPM Acceptance Range

2063	103.65	
1856.7	**1753**	**Low**
2269.3	**2373**	**High**

DECAY CALCUALTION

Sr-90/Y90
No. 92SR470-2136

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 11-May-92
DATE OF CALIBRATION 29-Jan-25

			uncert	
Ao =	16100	dpm	805	dpm
N =	0.02		0.02	
T(1/2) =	28.60	years	28.60	years
T =	32.74	years	32.74	years
dilution =	1.00		1.00	
A =	7282.28	dpm	364.11	dpm

CPM Acceptance Range

1602.1	80.105
1441.9	**1362 Low**
1762.3	**1842 High**

Approval: _____ Date:_____

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:05
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	3070	3068	2
1520	3472	3468	4
1540	4012	4010	2
1560	4349	4347	2
1580	4885	4882	3
1600	5124	5123	1
1620	5531	5523	8
1640	5737	5731	6
1660	5781	5772	9
1680	5821	5817	4
1700	5992	5989	3
1720	5891	5888	3
1740	6067	6056	11
1760	6162	6134	28
1780	5962	5894	68
1800	6214	6077	137
1820	6044	5880	164
1840	6196	6038	158
1860	6106	5961	145
1880	6198	6053	144
1900	6297	6116	181
1920	6108	5931	177
1940	6258	6099	159
1960	6264	6084	180
1980	6058	5861	197

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:05
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	6067	5914	153

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

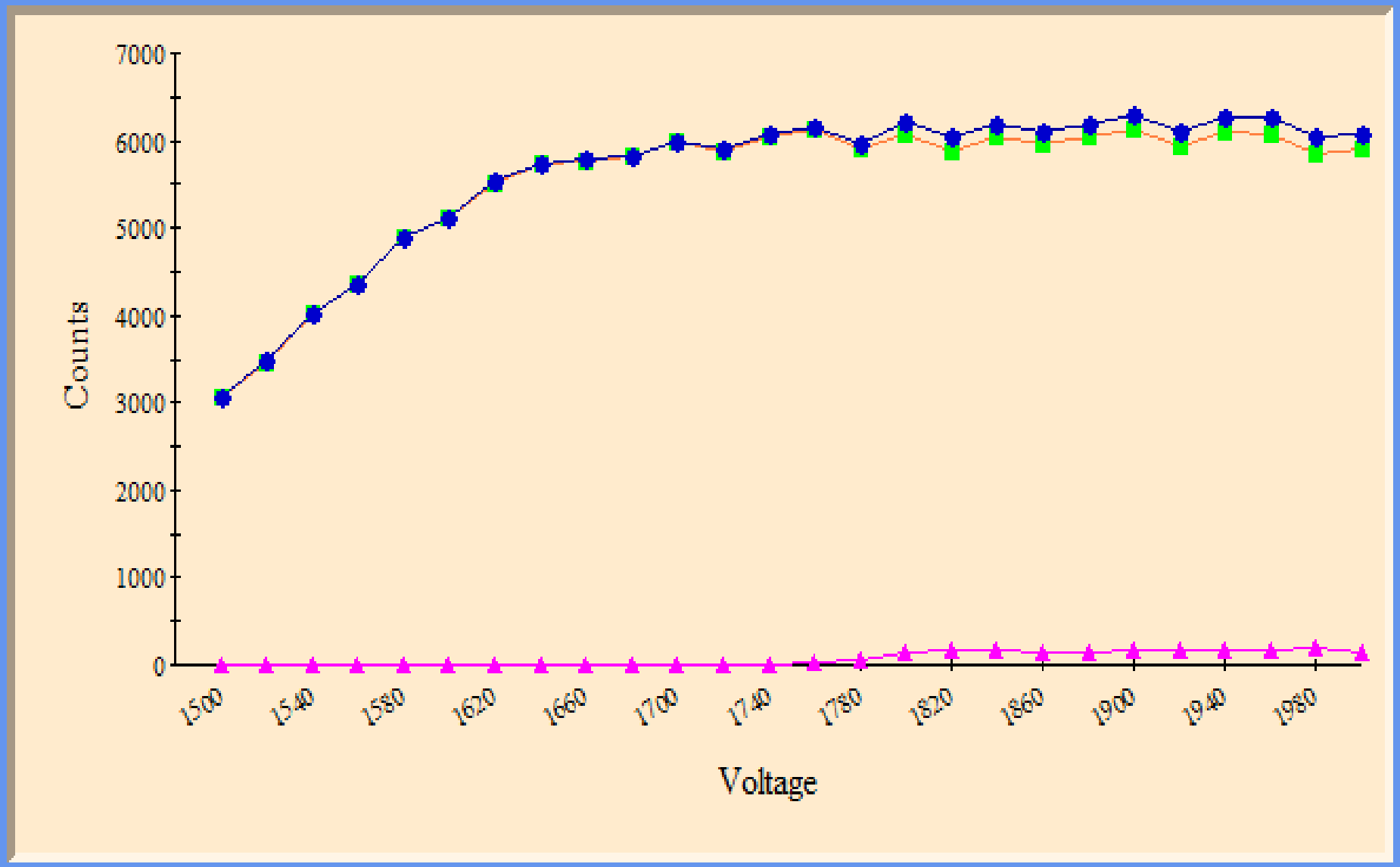
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

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High Voltage Plateau Plot



Source Certificate - 92SR4702137 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 01/29/2025 10:05:00 AM Detector - A

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:45
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** B **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2152	2150	2
1520	2596	2595	1
1540	3027	3025	2
1560	3491	3490	1
1580	3954	3948	6
1600	4332	4328	4
1620	4639	4635	4
1640	4959	4952	7
1660	5304	5296	8
1680	5541	5534	7
1700	5387	5378	9
1720	5397	5389	8
1740	5665	5655	10
1760	5614	5589	25
1780	5723	5656	67
1800	5874	5750	124
1820	5814	5653	161
1840	5826	5652	174
1860	5704	5555	149
1880	5745	5586	159
1900	5813	5683	130
1920	5793	5649	144
1940	5771	5624	147
1960	5709	5528	181
1980	5801	5667	134

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:45
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** B **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	5827	5672	155

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

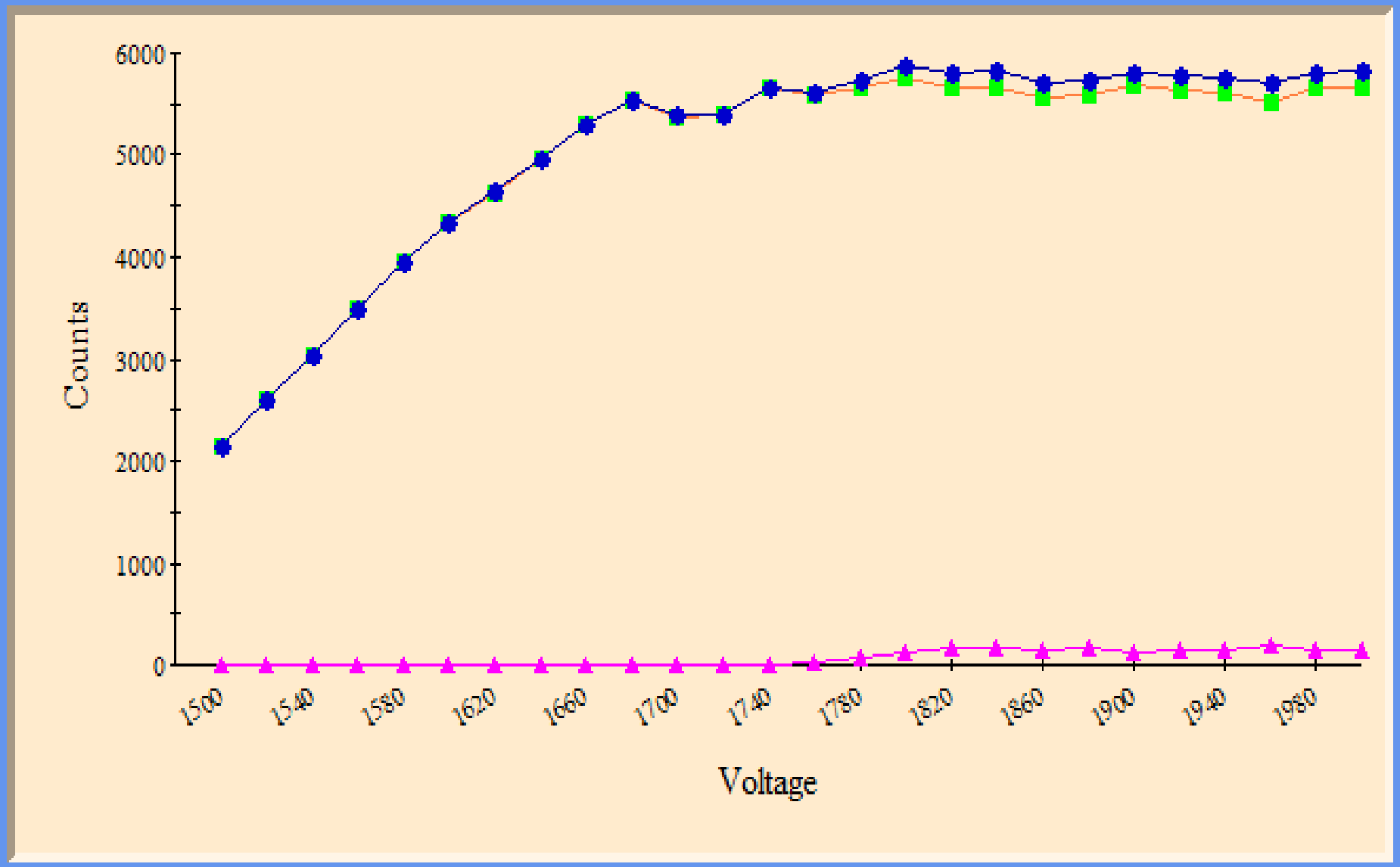
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

PDF created with pdfFactory trial version www.pdffactory.com

High Voltage Plateau Plot



Source Certificate - 92SR4702137 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 01/29/2025 10:45:09 AM Detector - B

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 11:24
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2474	2471	3
1520	2879	2876	3
1540	3308	3307	1
1560	3791	3789	2
1580	4308	4302	6
1600	4507	4501	6
1620	4824	4814	10
1640	5167	5160	7
1660	5226	5221	5
1680	5357	5350	7
1700	5456	5451	5
1720	5528	5524	4
1740	5671	5658	13
1760	5536	5501	35
1780	5663	5597	66
1800	5755	5608	147
1820	5810	5633	177
1840	5775	5609	166
1860	5643	5458	185
1880	5681	5507	174
1900	5715	5523	192
1920	5739	5540	199
1940	5686	5507	179
1960	5793	5626	167
1980	5670	5500	170

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Test Date: 01/29/2025 11:24
System Serial #: 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 92SR4702137
Isotope Name: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	5719	5522	197

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

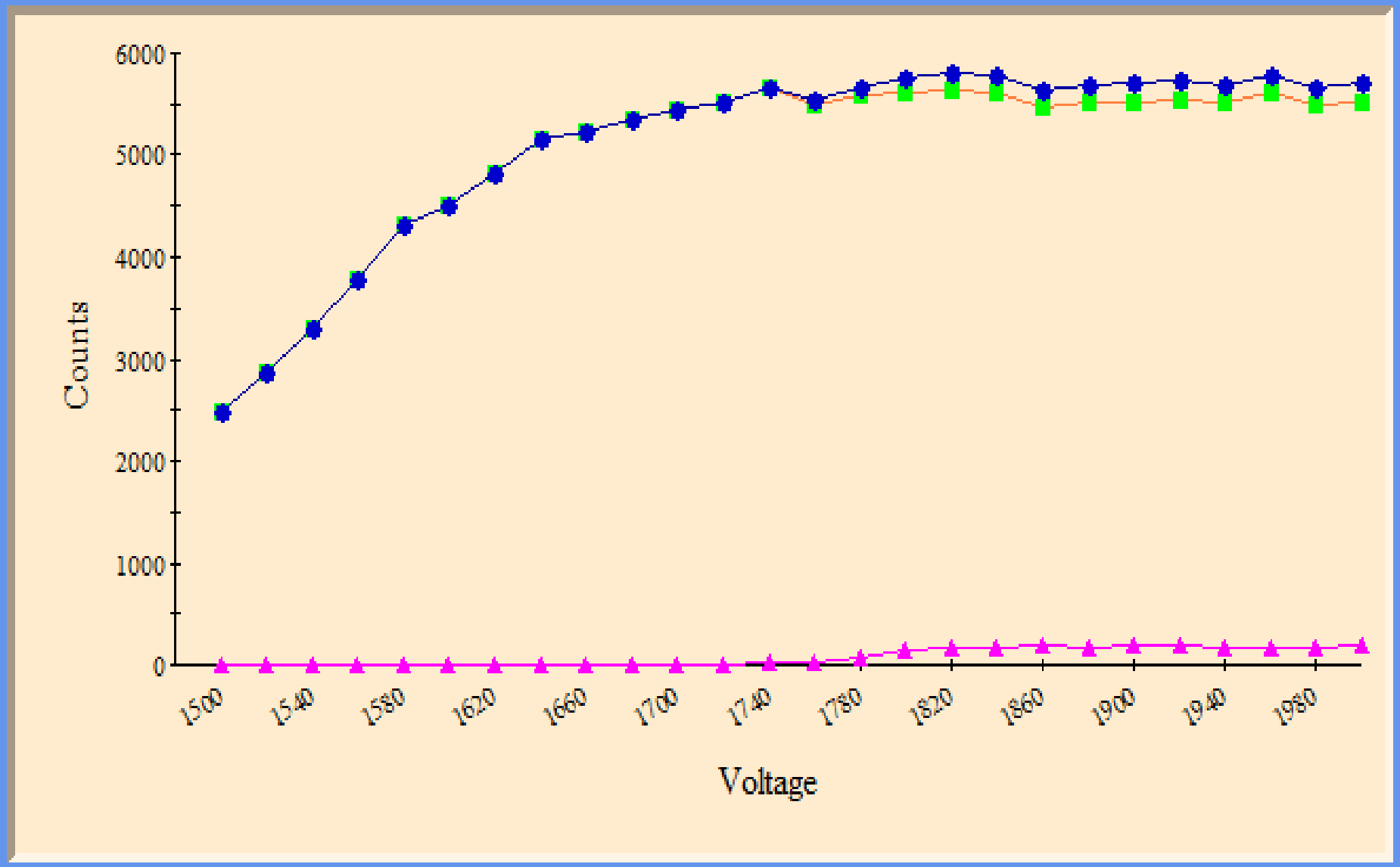
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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High Voltage Plateau Plot



Source Certificate - 92SR4702137 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 01/29/2025 11:24:24 AM Detector - C

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 11:55
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** D **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2322	2320	2
1520	2689	2686	3
1540	3201	3201	0
1560	3550	3550	0
1580	4161	4154	7
1600	4386	4384	2
1620	4707	4704	3
1640	5047	5043	4
1660	5368	5360	8
1680	5379	5374	5
1700	5530	5525	5
1720	5696	5688	8
1740	5762	5746	16
1760	5639	5626	13
1780	5820	5761	59
1800	5751	5581	170
1820	5750	5573	177
1840	5798	5622	176
1860	5980	5801	179
1880	5890	5707	183
1900	5879	5708	171
1920	5824	5644	180
1940	5849	5674	175
1960	5841	5663	178
1980	5710	5527	182

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Test Date: 01/29/2025 11:55
System Serial #: 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 92SR4702137
Isotope Name: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	5792	5628	164

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

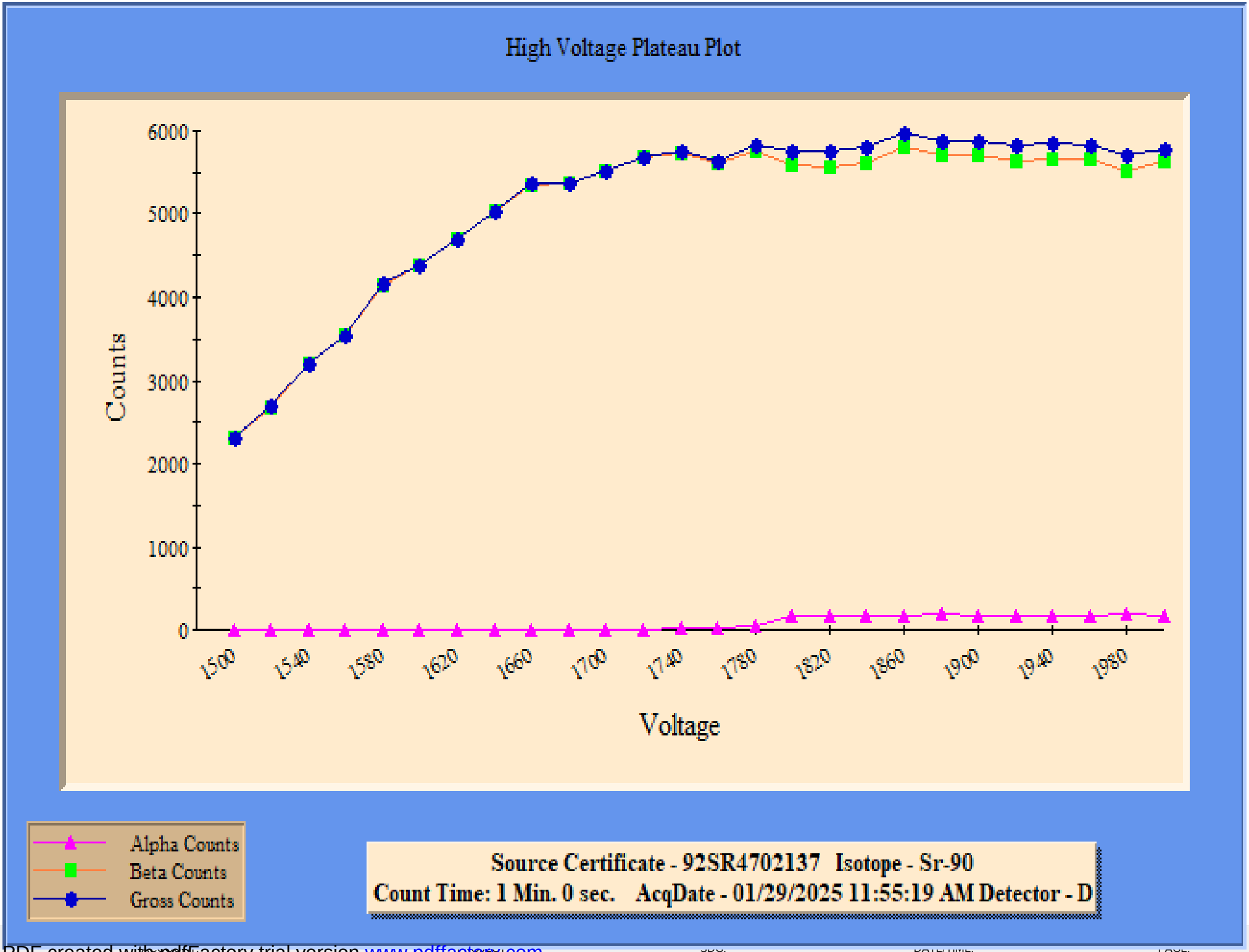
Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 15:11
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702139
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	4890	40
2	5083	29
3	4955	24
4	4983	30
5	4922	22
6	4971	16
7	5075	22
8	4929	25
9	5005	22
10	4941	21
11	5057	27
12	4961	28
13	4985	23
14	5016	26
15	5122	25
16	5053	28
17	5015	14
18	4930	15
19	4916	14
20	4957	22

(Xbar) Mean:	4988.30	23.65
Calculated Chi-Sqr Value:	15.36	30.97

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** B
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 13:20
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702136
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	3680	15
2	3908	19
3	3816	14
4	3810	12
5	3728	15
6	3912	13
7	3780	14
8	3793	10
9	3762	13
10	3769	19
11	3793	22
12	3752	16
13	3848	15
14	3707	21
15	3807	15
16	3710	11
17	3688	17
18	3721	12
19	3829	12
20	3776	15

(Xbar) Mean:	3779.45	15.00
Calculated Chi-Sqr Value:	21.22	13.33

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** C
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 13:57
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702136
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	3602	25
2	3704	22
3	3654	21
4	3720	25
5	3720	15
6	3691	14
7	3751	19
8	3773	15
9	3706	7
10	3718	16
11	3726	23
12	3675	21
13	3740	18
14	3795	18
15	3767	19
16	3729	17
17	3688	18
18	3644	22
19	3722	23
20	3782	17

(Xbar) Mean:	3715.35	18.75
Calculated Chi-Sqr Value:	11.83	18.65

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** D
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 14:21
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702136
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	3765	23
2	3785	24
3	3785	12
4	3842	14
5	3836	25
6	3881	9
7	3733	21
8	3783	21
9	3746	18
10	3854	19
11	3849	12
12	3699	15
13	3796	16
14	3742	14
15	3793	21
16	3745	16
17	3716	14
18	3756	15
19	3675	32
20	3762	22

(Xbar) Mean:	3777.15	18.15
Calculated Chi-Sqr Value:	14.98	31.77

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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RADIUM-226

SDG: WG2470961
METHOD: EPA 903.0/9315
ANALYST: ASN4036

	Ra226	2σCE	TPU	SDWA DL	Lc	mda	Units	date prep	date analysis	Analyst	
BACKGROUND DET A	0.000	0.202		0.233	0.170	0.448	pCi/l	3/19/2025	3/25/2025	ASN4036	
BACKGROUND DET B	0.000	0.144		0.197	0.122	0.353	pCi/l	3/19/2025	3/25/2025	ASN4036	
BACKGROUND DET C	0.000	0.203		0.234	0.171	0.451	pCi/l	3/19/2025	3/25/2025	ASN4036	
BACKGROUND DET D	0.000	0.175		0.216	0.148	0.404	pCi/l	3/19/2025	3/25/2025	ASN4036	
RA-0070-WS-903-1	563.85	10.957		0.245	0.106	0.377	pCi/l	3/19/2025	3/25/2025	ASN4036	**97.1%**
RA-0070-WS-903-2	554.46	10.847		0.228	0.074	0.314	pCi/l	3/19/2025	3/25/2025	ASN4036	**95.5%**
RA-0070-WS-903-3	572.00	10.993		0.238	0.105	0.374	pCi/l	3/19/2025	3/25/2025	ASN4036	**98.5%**
RA-0070-WS-903-4	583.89	11.166		0.239	0.092	0.350	pCi/l	3/19/2025	3/25/2025	ASN4036	**100.5%**
[redacted]								3/19/2025	[redacted]	ASN4036	
BLANK WG2470961	0.046	0.144	0.280	0.148	0.108	0.285	pCi/l	3/19/2025	3/25/2025	ASN4036	
LCS WG2470961	5.218	0.691	0.828	0.125	0.077	0.224	pCi/l	3/19/2025	3/25/2025	ASN4036	
MS L1834569-04 WG2470961	19.610	2.709	2.847	0.600	0.438	1.155	pCi/l	3/19/2025	3/25/2025	ASN4036	
MSD L1834569-04 WG2470961	19.945	2.729	2.867	0.559	0.382	1.045	pCi/l	3/19/2025	3/25/2025	ASN4036	
DUP L1835200-02 WG2470961	0.000	0.536	0.677	0.618	0.451	1.190	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-01 WG2470961	0.379	0.321	0.460	0.254	0.156	0.453	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-02 WG2470961	0.333	0.361	0.500	0.304	0.222	0.585	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-03 WG2470961	0.048	0.249	0.389	0.284	0.194	0.531	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-04 WG2470961	-0.095	0.228	0.368	0.304	0.222	0.585	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-09 WG2470961	0.097	0.233	0.375	0.260	0.160	0.465	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-11 WG2470961	0.094	0.293	0.432	0.302	0.220	0.581	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-13 WG2470961	1.279	0.522	0.659	0.270	0.185	0.505	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835110-01 WG2470961	1.119	0.504	0.641	0.286	0.209	0.551	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835110-05 WG2470961	2.421	0.676	0.814	0.245	0.151	0.438	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835110-07 WG2470961	0.676	0.424	0.561	0.288	0.210	0.554	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835110-09 WG2470961	2.612	0.706	0.843	0.266	0.182	0.498	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835187-02 WG2470961	0.000	0.252	0.391	0.291	0.212	0.560	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835187-04 WG2470961	0.139	0.239	0.379	0.248	0.152	0.442	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835187-07 WG2470961	0.096	0.299	0.442	0.308	0.225	0.594	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835200-01 WG2470961	0.097	0.269	0.412	0.286	0.196	0.536	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835200-02 WG2470961	0.226	0.319	0.458	0.289	0.211	0.556	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835703-01 WG2470961	0.415	0.352	0.502	0.278	0.171	0.497	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835703-02 WG2470961	0.223	0.316	0.454	0.286	0.209	0.550	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835703-03 WG2470961	0.571	0.375	0.512	0.260	0.178	0.486	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835703-04 WG2470961	1.430	0.544	0.680	0.277	0.202	0.533	pCi/l	3/19/2025	3/25/2025	ASN4036	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#####	pCi/l	3/19/2025	1/0/1900	ASN4036	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#####	pCi/l	3/19/2025	1/0/1900	ASN4036	
RA-0070-WS-903-1	575.929	11.074	11.211	0.245	0.106	0.377	pCi/l	3/19/2025	3/26/2025	ASN4036	**99.2%**
RA-0070-WS-903-2	553.465	10.837	10.974	0.229	0.074	0.314	pCi/l	3/19/2025	3/26/2025	ASN4036	**95.3%**
RA-0070-WS-903-3	576.507	11.036	11.173	0.243	0.105	0.374	pCi/l	3/19/2025	3/26/2025	ASN4036	**99.3%**
RA-0070-WS-903-4	575.835	11.089		0.239	0.092	0.350	pCi/l	3/19/2025	3/26/2025	ASN4036	**99.2%**
BACKGROUND DET A	-0.109	0.160		0.000	0.170	0.448	pCi/l	3/19/2025	3/26/2025	ASN4036	
BACKGROUND DET B	0.000	0.144		0.000	0.122	0.353	pCi/l	3/19/2025	3/26/2025	ASN4036	
BACKGROUND DET C	-0.073	0.176		0.000	0.171	0.451	pCi/l	3/19/2025	3/26/2025	ASN4036	
BACKGROUND DET D	-0.037	0.160		0.000	0.148	0.404	pCi/l	3/19/2025	3/26/2025	ASN4036	

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Radium EPA 903.0/9315
SDG: WG2470961
METHOD: EPA 903.0/9315
ANALYST: ASN4036
Prep Date: 03/19/25

Detector	EFF	BKG COUNTS	COUNT TIME	BKG CPM
Detector A	20.6%	4	60	0.067
Detector B	20.4%	2	60	0.033
Detector C	20.5%	4	60	0.067
Detector D	20.5%	3	60	0.050

If Background is 0 use 1.

Ba Carrier ID: 25C14200
Standardization Date 3/17/2025 8:25

planchet tare	planchet gross	net weight
0.08280	0.13658	0.05378
0.08291	0.13688	0.05397
0.08295	0.13678	0.05383

ave = **0.05386**

id	sample size	alpha counts	count time	ppt time	time count end		igf	Detector #	CPM back	Bkg Counts	eff	planchet tare (g)	planchet gross (g)	net weight(g)	ba rec	Ba Rec use	
BACKGROUND DET A	1.000	4	60	3/25/25 12:11	3/25/25 12:11	0	1.000	A	0.067	4.0	20.6%			0.00000	100.0%	100.0%	BACKGROUND DET A
BACKGROUND DET B	1.000	2	60	3/25/25 12:11	3/25/25 12:11	0	1.000	B	0.033	2.0	20.4%			0.00000	100.0%	100.0%	BACKGROUND DET B
BACKGROUND DET C	1.000	4	60	3/25/25 12:11	3/25/25 12:11	0	1.000	C	0.067	4.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET C
BACKGROUND DET D	1.000	3	60	3/25/25 12:11	3/25/25 12:11	0	1.000	D	0.050	3.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET D
RA-0070-WS-903-1	1.000	10175	10	4/6/21 14:15	3/25/25 12:46	34775	4.000	A	0.067	0.7	20.6%			0.00000	98.6%	98.6%	RA-0070-WS-903-1
RA-0070-WS-903-2	1.000	10039	10	4/6/21 14:15	3/25/25 12:46	34775	4.000	B	0.033	0.3	20.4%			0.00000	100.6%	100.0%	RA-0070-WS-903-2
RA-0070-WS-903-3	1.000	10403	10	4/6/21 14:15	3/25/25 12:46	34775	4.000	C	0.067	0.7	20.5%			0.00000	102.2%	100.0%	RA-0070-WS-903-3
RA-0070-WS-903-4	1.000	10506	10	4/6/21 14:15	3/25/25 12:46	34775	4.000	D	0.050	0.5	20.5%			0.00000	98.6%	98.6%	RA-0070-WS-903-4
						0	1.000								0.0%		
BLANK WG2470961	1.000	6	60	3/24/25 10:21	3/25/25 14:27	28	1.574	A	0.067	4.0	20.6%	0.08483	0.13934	0.05451	101.2%	100.0%	BLANK WG2470961
LCS WG2470961	1.000	225	60	3/24/25 10:21	3/25/25 14:27	28	1.574	B	0.033	2.0	20.4%	0.0846	0.13898	0.05438	101.0%	100.0%	LCS WG2470961
MS L1834569-04 WG2470961	0.250	213	60	3/24/25 10:21	3/25/25 14:27	28	1.574	C	0.067	4.0	20.5%	0.08452	0.13801	0.05349	99.3%	99.3%	MS L1834569-04 WG2470961
MSD L1834569-04 WG2470961	0.250	214	60	3/24/25 10:21	3/25/25 14:27	28	1.574	D	0.050	3.0	20.5%	0.08466	0.13759	0.05293	98.3%	98.3%	MSD L1834569-04 WG2470961
DUP L1835200-02 WG2470961	0.250	4	60	3/24/25 10:21	3/25/25 15:27	29	1.592	A	0.067	4.0	20.6%	0.08459	0.1356	0.05101	94.7%	94.7%	DUP L1835200-02 WG2470961
L1834569-01 WG2470961	0.500	10	60	3/24/25 10:21	3/25/25 15:27	29	1.592	B	0.033	2.0	20.4%	0.08435	0.137	0.05265	97.8%	97.8%	L1834569-01 WG2470961
L1834569-02 WG2470961	0.500	11	60	3/24/25 10:21	3/25/25 15:27	29	1.592	C	0.067	4.0	20.5%	0.08433	0.13653	0.05220	96.9%	96.9%	L1834569-02 WG2470961
L1834569-03 WG2470961	0.500	4	60	3/24/25 10:21	3/25/25 15:27	29	1.592	D	0.050	3.0	20.5%	0.08444	0.13595	0.05151	95.6%	95.6%	L1834569-03 WG2470961
L1834569-04 WG2470961	0.500	2	60	3/24/25 10:21	3/25/25 16:27	30	1.610	A	0.067	4.0	20.6%	0.08465	0.13594	0.05129	95.2%	95.2%	L1834569-04 WG2470961
L1834569-09 WG2470961	0.500	4	60	3/24/25 10:21	3/25/25 16:27	30	1.610	B	0.033	2.0	20.4%	0.08461	0.13531	0.05070	94.1%	94.1%	L1834569-09 WG2470961
L1834569-11 WG2470961	0.500	6	60	3/24/25 10:21	3/25/25 16:27	30	1.610	C	0.067	4.0	20.5%	0.08464	0.1366	0.05196	96.5%	96.5%	L1834569-11 WG2470961
L1834569-13 WG2470961	0.500	31	60	3/24/25 10:21	3/25/25 16:27	30	1.610	D	0.050	3.0	20.5%	0.08463	0.13817	0.05354	99.4%	99.4%	L1834569-13 WG2470961
L1835110-01 WG2470961	0.500	29	60	3/24/25 10:21	3/25/25 17:28	31	1.628	A	0.067	4.0	20.6%	0.08448	0.13914	0.05466	101.5%	100.0%	L1835110-01 WG2470961
L1835110-05 WG2470961	0.500	55	60	3/24/25 10:21	3/25/25 17:28	31	1.628	B	0.033	2.0	20.4%	0.08437	0.13769	0.05332	99.0%	99.0%	L1835110-05 WG2470961
L1835110-07 WG2470961	0.500	19	60	3/24/25 10:21	3/25/25 17:28	31	1.628	C	0.067	4.0	20.5%	0.0846	0.13843	0.05383	99.9%	99.9%	L1835110-07 WG2470961
L1835110-09 WG2470961	0.500	61	60	3/24/25 10:21	3/25/25 17:28	31	1.628	D	0.050	3.0	20.5%	0.08435	0.13804	0.05369	99.7%	99.7%	L1835110-09 WG2470961
L1835187-02 WG2470961	0.500	4	60	3/24/25 10:21	3/25/25 18:28	32	1.646	A	0.067	4.0	20.6%	0.08439	0.13678	0.05239	97.3%	97.3%	L1835187-02 WG2470961
L1835187-04 WG2470961	0.500	5	60	3/24/25 10:21	3/25/25 18:28	32	1.646	B	0.033	2.0	20.4%	0.08457	0.13675	0.05218	96.9%	96.9%	L1835187-04 WG2470961
L1835187-07 WG2470961	0.500	6	60	3/24/25 10:21	3/25/25 18:28	32	1.646	C	0.067	4.0	20.5%	0.08472	0.13444	0.04972	92.3%	92.3%	L1835187-07 WG2470961
L1835200-01 WG2470961	0.500	5	60	3/24/25 10:21	3/25/25 18:28	32	1.646	D	0.050	3.0	20.5%	0.08452	0.13388	0.04936	91.6%	91.6%	L1835200-01 WG2470961
L1835200-02 WG2470961	0.500	9	60	3/24/25 10:21	3/25/25 19:28	33	1.664	A	0.067	4.0	20.6%	0.08425	0.13644	0.05219	96.9%	96.9%	L1835200-02 WG2470961
L1835703-01 WG2470961	0.500	10	60	3/24/25 10:21	3/25/25 19:28	33	1.664	B	0.033	2.0	20.4%	0.08424	0.13019	0.04595	85.3%	85.3%	L1835703-01 WG2470961
L1835703-02 WG2470961	0.500	9	60	3/24/25 10:21	3/25/25 19:28	33	1.664	C	0.067	4.0	20.5%	0.0846	0.13772	0.05312	98.6%	98.6%	L1835703-02 WG2470961
L1835703-03 WG2470961	0.500	16	60	3/24/2025 10:21	03/25/2025 19:28	33	1.664	D	0.050	3.0	20.5%	0.08451	0.13838	0.05387	100.0%	100.0%	L1835703-03 WG2470961
L1835703-04 WG2470961	0.500	37	60	3/24/2025 10:21	03/25/2025 20:28	34	1.682	A	0.067	4.0	20.6%	0.08414	0.13837	0.05423	100.7%	100.0%	L1835703-04 WG2470961
						0	1.000		FALSE	0.0	FALSE			0.00000	0.0%	0.0%	0
						0	1.000		FALSE	0.0	FALSE			0.00000	0.0%	0.0%	0
RA-0070-WS-903-1	1.000	10393	10	4/6/21 14:15	3/26/25 2:51	34789	4.000	A	0.067	0.7	20.6%			0.00000	98.6%	98.6%	RA-0070-WS-903-1
RA-0070-WS-903-2	1.000	10021	10	4/6/21 14:15	3/26/25 2:51	34789	4.000	B	0.033	0.3	20.4%			0.00000	100.6%	100.0%	RA-0070-WS-903-2
RA-0070-WS-903-3	1.000	10485	10	4/6/21 14:15	3/26/25 2:51	34789	4.000	C	0.067	0.7	20.5%			0.00000	102.2%	100.0%	RA-0070-WS-903-3
RA-0070-WS-903-4	1.000	10361	10	4/6/21 14:15	3/26/25 2:51	34789	4.000	D	0.050	0.5	20.5%			0.00000	98.6%	98.6%	RA-0070-WS-903-4
BACKGROUND DET A	1.000	1	60	3/26/25 2:30	3/26/25 2:30	0	1.000	A	0.067	4.0	20.6%			0.00000	100.0%	100.0%	BACKGROUND DET A
BACKGROUND DET B	1.000	2	60	3/26/25 2:30	3/26/25 2:30	0	1.000	B	0.033	2.0	20.4%			0.00000	100.0%	100.0%	BACKGROUND DET B
BACKGROUND DET C	1.000	2	60	3/26/25 2:30	3/26/25 2:30	0	1.000	C	0.067	4.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET C
BACKGROUND DET D	1.000	2	60	3/26/25 2:30	3/26/25 2:30	0	1.000	D	0.050	3.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET D
																	0

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QC REPORT

ANALYTE: **Ra226**
METHOD: **EPA 903.0/9315**
SDG: **WG2470961**
UNITS: **pCi/L**
STD ID: **25B04944** Vol. **1** ml

	Ra226	2σCE	TPU	SDWA DL	Lc	mda	known	%REC	LIMITS LOW	LIMITS HIGH	RPD	LIMITS	RER	LIMITS
BLANK WG2470961	0.046	0.144	0.280	0.148	0.108	0.285								
LCS WG2470961	5.218	0.691	0.828	0.125	0.077	0.224	**5.00**	**104.3%**	80%	120%				
L1835200-02 WG2470961	0.226	0.319	0.458	0.289	0.211	0.556								
DUP L1835200-02 WG2470961	0.000	0.536	0.677	0.618	0.451	1.190					NC	20%	**0.362**	3
L1834569-04 WG2470961	-0.095	0.228	0.368	0.304	0.222	0.585								
MS L1834569-04 WG2470961	19.610	2.709	2.847	0.600	0.438	1.155	**20.0**	**98.5%**	75%	125%				
MSD L1834569-04 WG2470961	19.945	2.729	2.867	0.559	0.382	1.045	**20.0**	**100.2%**	75%	125%	1.69%			

*** - Outside Control Limits**

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DECAY CALCUALTION

Ra226 Source
No.3613
ml HCl 41.66667
25B04944

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 08-Apr-24
DATE OF CALIBRATION 19-Mar-25

Ao =	588.69	pCi/ml
N =	0.00	
T(1/2) =	1600.00	years
T =	0.95	years
Standard Volume	8.50	
Final Volume =	1000.00	
dilution =	117.65	
A =	588.453	pCi/ml
A =	11.104	dpm/ml
A =	5.00	pCi/ml

A = 5.00 pCi/ml

Uncertainty	3.70%
Weight	0.00%
Volume (1000 ml	0.03%
Volume (100 ml /	0.40%
Volume (1000 ml	0.03%
CSU	3.72%

Activity 5.00 +/- 0.186 pCi/ml

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R.A.D 1 x 5ML

Amersham International
Amersham Laboratories

ESC37429

B&T ff 3613
Rec'd 11-11-98

NAMAS
CALIBRATION
No. 0146

Certificate of calibration of radioactive reference solution

M 29913

Description	Principal radionuclide:	Radium-226	Product code: RAY.24
			Solution number: R4/131/127
Measurement	Reference time:	1200 GMT on 19 February 1998	
	Radioactive concentration of radium-226:	4.376	kilobecquerels per gram of solution
	which is equivalent to:	118.3	nanocuries per gram of solution
	Mass of solution:	5.0345	grams
	Total activity of radium-226:	22.03	kilobecquerels
	which is equivalent to:	595.4	nanocuries
	Recommended half life:	1600.00	years

Method of measurement:
The activity of the solution was measured in a high pressure re-entrant ionisation chamber calibrated with a large number of absolutely standardised solutions.

Accuracy: Overall uncertainty in the radioactive concentration quoted above: ± 3.7 %

Random uncertainty: ± 0.7 % Systematic uncertainty: ± 3.0 %

The limits of overall uncertainty were taken as the arithmetic sum of the uncertainty due to random variations, calculated at the 99.7% confidence level, and the estimated systematic uncertainties in the measurement.

Radionuclide Purity: The estimated activities of any radioactive impurities found by high-resolution gamma ray spectrometry, or in any other examination of the solution, are listed below expressed as percentages of the activity of the principal radionuclide at the reference time.

ENVIRONMENT & SCIENCE GROUP

Chemical Composition: Carrier free in 0.5M HCl

Remarks: At the reference date radium-226 was shown to be in radioactive equilibrium with its daughter nuclides down the decay chain to polonium-214 and thallium-210, the precursors of lead-210. The ionisation chamber was calibrated using a standard supplied by the National Institute of Standards and Technology, Washington DC, USA.

This product meets the quality assurance requirements of the NRC Regulatory Guide 4.15 for achieving implicit NIST traceability as defined in NCRP 58 (1985).

Approved Signatory

B D D Singleton

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Amersham
The Health Science Group

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Calibration Data EPA 903/9315

id	sample size	counts	time	ppt time	count time	Hours	igf	det	BKG	planchet tare	planchet gross	ba rec	eff		
RA-0070-WS-903-1	1	16166	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	A	0.083	7.85288	7.91579	98.6%	20.9%	0.06291	
RA-0070-WS-903-4	1	15891	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	A	0.083	7.85288	7.91579	98.6%	20.5%	0.06291	
RA-0070-WS-903-3	1	15850	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	A	0.083	7.86129	7.92648	102.2%	20.5%	0.06519	Avg
RA-0070-WS-903-2	1	15849	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	A	0.083	7.84269	7.90683	100.6%	20.5%	0.06414	
												100.0%	**20.6%**	0.06379	
RA-0070-WS-903-2	1	15429	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	B	0.017				19.9%		
RA-0070-WS-903-1	1	15805	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	B	0.017				20.4%		
RA-0070-WS-903-4	1	15893	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	B	0.017				20.5%		
RA-0070-WS-903-3	1	15960	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	B	0.017				20.6%		
													20.4%		
RA-0070-WS-903-3	1	16033	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	C	0.033				20.7%		
RA-0070-WS-903-2	1	15587	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	C	0.033				20.1%		
RA-0070-WS-903-1	1	15727	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	C	0.033				20.3%		
RA-0070-WS-903-4	1	16022	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	C	0.033				20.7%		
													20.5%		
RA-0070-WS-903-4	1	16034	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	D	0.017				20.7%		
RA-0070-WS-903-3	1	15985	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	D	0.017				20.7%		
RA-0070-WS-903-2	1	15668	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	D	0.017				20.3%		
RA-0070-WS-903-1	1	15880	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	D	0.017				20.5%		
													20.5%		

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DECAY CALCUALTION

Source:	Ra-226
Lot No.	R4/131/35
ID:	**RA-0070-WS1**
	19L06745

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 01-Nov-16
DATE OF CALIBRATION 30-Jan-25

Ao =	58.28	nCi
N =	0.00	
T(1/2) =	1600.00	years
T =	8.25	years
VOLUME OF STD	1.00	
FINAL VOL	100.00	
dilution =	100.00	
A =	58.07	nCi
A =	1289.22	dpm/ml
A =	**581**	pCi/ml

Uncertainty 3.70%

Volume 0.04%

CSU 3.70%

Activity 581 +/- 21 pCi/ml

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RAD 1x5mL

RH-0065-V5

Amersham International p
Amersham Laboratories

NAMAS
CALIBRATION
No. 0146

Certificate of calibration of radioactive reference solution

M 28796

ESC38625

Description	Principal radionuclide:	Radium-226	Product code: RAY.44
			Solution number: R4/131/35
Measurement	Reference time:		1200 GMT on 2 September 1996
	Radioactive concentration of radium-226:	43.80	kilobecquerels per gram of solution
	which is equivalent to:	1.184	microcuries per gram of solution
	Mass of solution:	5.0330	grams
	Total activity of radium-226:	220.5	kilobecquerels
	which is equivalent to:	5.959	microcuries
	Recommended half life:	1600	years

Method of measurement used:
The activity of the solution was measured in a high pressure re-entrant ionisation chamber calibrated with a large number of absolutely standardised solutions.

ENVIRONMENTAL CHEMISTRY GROUP

Accuracy: Overall uncertainty in the radioactive concentration quoted above: ± 3.7 %

Random uncertainty: ± 0.7 % Systematic uncertainty: ± 3.0 %

The limits of overall uncertainty were taken as the arithmetic sum of the uncertainty due to random variations, calculated at the 99.7% confidence level, and the estimated systematic uncertainties in the measurement.

Radionuclidic Purity: The estimated activities of any radioactive impurities found by high resolution gamma ray spectrometry, or in any other examination of the solution, are listed below expressed as percentages of the activity of the principal radionuclide at the reference time.

Chemical Composition: Carrier free in 0.5M HCl

Remarks: At the reference time radium-226 was shown to be in radioactive equilibrium with its daughter nuclides down the decay chain to polonium-214 and thallium-210, the precursors of lead-210. The ionisation chamber was calibrated using a standard supplied by the National Institute of Standards and Technology, Washington DC, USA.

This product meets the quality assurance requirements of the NRC Regulatory Guide 4.15 for achieving implicit NIST traceability as defined in NCRP 58 (1985).

Approved Signatory

W. F. Case

W F Case

Amersham
The Health Science Group

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RA-226 903.0 Radiochemistry Prep Benchsheet

Batch: WG2470961

Analyst: ASN4036 Prep Start Date/Time: 03/19/25 13:21 Prep End Date/Time: 03/25/25 10:51 Method: EPA 903.0 SOP: ENV-SOP-MTJL-0353/0370 Pipet ID: E11,E22,E14 Bal ID: RADBAL6 Stirrer ID's: St38,St45,St46

Hot Plate ID: HP20,HP21 Centrifuge ID: C7 Centrifuge Tube Lot: 920142 Transfer Pipette Lot: 24180063 1mL e-Pipet Tip Log: 2243 2mL e-Pipet Tip Lot: 2418 10mL e-Pipet Tip Lot: 2332 10mL Manual Pipet Lot: P7601073

pH Lot: 10BDH3921 Filter Lot#: F4KB68830 Filter Lot#: na Oven ID: Ra-226 Oven

LCS/D Standard: 25B04944 Amt. Used: 1 mL Exp. Date:04/09/25 MS/D Standard: 25B04944 Amt. Used: 1 mL Exp. Date:04/09/25 16 mg/mL Barium Carrier: 25C14200 Amt. Used: 2 Exp. Date:05/31/25

Lead Nitrate Carrier: 24J25400 Amt. Used: 1 Exp. Date:10/25/25 Citric Acid: 25C17500 Amt. Used: 5 Exp. Date:09/30/25 1:1 H2SO4: 25C11576 Amt. Used: 20 Exp. Date:03/11/26 0.25M EDTA: 25C18611 Amt. Used: 15 Exp. Date:03/18/26

200 mg/mL Ammonium Sulfate: 24K06043 Amt. Used: 1 Exp. Date:11/06/25 Bromocresol Green: 24L05046 Amt. Used: 0.50 Exp. Date:12/05/25 Acetic Acid: 25A06030 Amt. Used: 3 Exp. Date:06/19/26

HNO3: 25C12757 Amt. Used: 20 Exp. Date:09/30/29 5N Ammonium Hydroxide: 25C12721 Amt. Used: 3 Exp. Date:03/12/26

Sample Number	Collect Date	Sample Volume (mL)	Precipitation Time	Tare Wt (g)	Gross Wt (g)	Final Wt (g)	Review Analyst	Review Date
BLANK		1000	03/24/2025 10:21	0.08483	0.13934	0.05451	ASN4036	03/26/25 08:48:05
LCS		1000	03/24/2025 10:21	0.08460	0.13898	0.05438	ASN4036	03/26/25 08:48:05
MS(L1834569-04)		250	03/24/2025 10:21	0.08452	0.13801	0.05349	ASN4036	03/26/25 08:48:05
MSD(L1834569-04)		250	03/24/2025 10:21	0.08466	0.13759	0.05293	ASN4036	03/26/25 08:48:05
DUP(L1835200-02)		250	03/24/2025 10:21	0.08459	0.13560	0.05101	ASN4036	03/26/25 08:48:05
1. L1834569-01	03/10/25 13:20	500	03/24/2025 10:21	0.08435	0.13700	0.05265	ASN4036	03/26/25 08:48:05
2. L1834569-02	03/10/25 09:45	500	03/24/2025 10:21	0.08433	0.13653	0.0522	ASN4036	03/26/25 08:48:05
3. L1834569-03	03/10/25 10:35	500	03/24/2025 10:21	0.08444	0.13595	0.05151	ASN4036	03/26/25 08:48:05
4. L1834569-04	03/10/25 11:55	500	03/24/2025 10:21	0.08465	0.13594	0.05129	ASN4036	03/26/25 08:48:05
5. L1834569-09	03/10/25 13:40	500	03/24/2025 10:21	0.08461	0.13531	0.0507	ASN4036	03/26/25 08:48:05
6. L1834569-11	03/10/25 10:45	500	03/24/2025 10:21	0.08464	0.13660	0.05196	ASN4036	03/26/25 08:48:05
7. L1834569-13	03/10/25 08:25	500	03/24/2025 10:21	0.08463	0.13817	0.05354	ASN4036	03/26/25 08:48:05
8. L1835110-01	03/11/25 11:15	500	03/24/2025 10:21	0.08448	0.13914	0.05466	ASN4036	03/26/25 08:48:05
9. L1835110-05	03/11/25 11:00	500	03/24/2025 10:21	0.08437	0.13769	0.05332	ASN4036	03/26/25 08:48:05
10. L1835110-07	03/11/25 12:25	500	03/24/2025 10:21	0.08460	0.13843	0.05383	ASN4036	03/26/25 08:48:05
11. L1835110-09	03/11/25 11:15	500	03/24/2025 10:21	0.08435	0.13804	0.05369	ASN4036	03/26/25 08:48:05
12. L1835187-02	03/11/25 12:40	500	03/24/2025 10:21	0.08439	0.13678	0.05239	ASN4036	03/26/25 08:48:05
13. L1835187-04	03/11/25 16:10	500	03/24/2025 10:21	0.08457	0.13675	0.05218	ASN4036	03/26/25 08:48:05
14. L1835187-07	03/11/25 17:34	500	03/24/2025 10:21	0.08472	0.13444	0.04972	ASN4036	03/26/25 08:48:05
15. L1835200-01	03/11/25 12:40	500	03/24/2025 10:21	0.08452	0.13388	0.04936	ASN4036	03/26/25 08:48:05
16. L1835200-02	03/11/25 15:45	500	03/24/2025 10:21	0.08425	0.13644	0.05219	ASN4036	03/26/25 08:48:05
17. L1835703-01	03/12/25 08:20	500	03/24/2025 10:21	0.08424	0.13019	0.04595	ASN4036	03/26/25 08:48:05
18. L1835703-02	03/12/25 09:35	500	03/24/2025 10:21	0.08460	0.13772	0.05312	ASN4036	03/26/25 08:48:05
19. L1835703-03	03/12/25 08:20	500	03/24/2025 10:21	0.08451	0.13838	0.05387	ASN4036	03/26/25 08:48:05
20. L1835703-04	03/12/25 09:30	500	03/24/2025 10:21	0.08414	0.13837	0.05423	ASN4036	03/26/25 08:48:05

Comments:Reviewed By:ASN4036 on 03/26/25 08:48:05

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G5020 Run Log Ra-226 Waters by 903.0 WG2470961

Sample Order Verified by ASN4036

Sample ID	Det	Alpha	LT	Analyst	Start	End
RA_BKG	A	4	60	ASN4036	3/25/2025 11:11	3/25/2025 12:11
RA_BKG	B	2	60	ASN4036	3/25/2025 11:11	3/25/2025 12:11
RA_BKG	C	4	60	ASN4036	3/25/2025 11:11	3/25/2025 12:11
RA_BKG	D	3	60	ASN4036	3/25/2025 11:11	3/25/2025 12:11
21E226752	A	10175	10	ASN4036	3/25/2025 12:36	3/25/2025 12:46
21E226753	B	10039	10	ASN4036	3/25/2025 12:36	3/25/2025 12:46
21E226754	C	10403	10	ASN4036	3/25/2025 12:36	3/25/2025 12:46
21E226751	D	10506	10	ASN4036	3/25/2025 12:36	3/25/2025 12:46
BLANK WG2470961	A	6	60	ASN4036	3/25/2025 13:27	3/25/2025 14:27
LCS WG2470961	B	225	60	ASN4036	3/25/2025 13:27	3/25/2025 14:27
MS L1834569-04 WG2470961	C	213	60	ASN4036	3/25/2025 13:27	3/25/2025 14:27
MSD L1834569-04 WG2470961	D	214	60	ASN4036	3/25/2025 13:27	3/25/2025 14:27
DUP L1835200-02 WG2470961	A	4	60	ASN4036	3/25/2025 14:27	3/25/2025 15:27
L1834569-01 WG2470961	B	10	60	ASN4036	3/25/2025 14:27	3/25/2025 15:27
L1834569-02 WG2470961	C	11	60	ASN4036	3/25/2025 14:27	3/25/2025 15:27
L1834569-03 WG2470961	D	4	60	ASN4036	3/25/2025 14:27	3/25/2025 15:27
L1834569-04 WG2470961	A	2	60	ASN4036	3/25/2025 15:27	3/25/2025 16:27
L1834569-09 WG2470961	B	4	60	ASN4036	3/25/2025 15:27	3/25/2025 16:27
L1834569-11 WG2470961	C	6	60	ASN4036	3/25/2025 15:27	3/25/2025 16:27
L1834569-13 WG2470961	D	31	60	ASN4036	3/25/2025 15:27	3/25/2025 16:27
L1835110-01 WG2470961	A	29	60	ASN4036	3/25/2025 16:28	3/25/2025 17:28
L1835110-05 WG2470961	B	55	60	ASN4036	3/25/2025 16:28	3/25/2025 17:28
L1835110-07 WG2470961	C	19	60	ASN4036	3/25/2025 16:28	3/25/2025 17:28
L1835110-09 WG2470961	D	61	60	ASN4036	3/25/2025 16:28	3/25/2025 17:28
L1835187-02 WG2470961	A	4	60	ASN4036	3/25/2025 17:28	3/25/2025 18:28
L1835187-04 WG2470961	B	5	60	ASN4036	3/25/2025 17:28	3/25/2025 18:28
L1835187-07 WG2470961	C	6	60	ASN4036	3/25/2025 17:28	3/25/2025 18:28
L1835200-01 WG2470961	D	5	60	ASN4036	3/25/2025 17:28	3/25/2025 18:28
L1835200-02 WG2470961	A	9	60	ASN4036	3/25/2025 18:28	3/25/2025 19:28
L1835703-01 WG2470961	B	10	60	ASN4036	3/25/2025 18:28	3/25/2025 19:28
L1835703-02 WG2470961	C	9	60	ASN4036	3/25/2025 18:28	3/25/2025 19:28
L1835703-03 WG2470961	D	16	60	ASN4036	3/25/2025 18:28	3/25/2025 19:28
L1835703-04 WG2470961	A	37	60	ASN4036	3/25/2025 19:28	3/25/2025 20:28
RA_BKG	A	1	60	ASN4036	3/26/2025 1:30	3/26/2025 2:30
RA_BKG	B	2	60	ASN4036	3/26/2025 1:30	3/26/2025 2:30
RA_BKG	C	2	60	ASN4036	3/26/2025 1:30	3/26/2025 2:30
RA_BKG	D	2	60	ASN4036	3/26/2025 1:30	3/26/2025 2:30
21E226752	A	10393	10	ASN4036	3/26/2025 2:41	3/26/2025 2:51
21E226753	B	10021	10	ASN4036	3/26/2025 2:41	3/26/2025 2:51
21E226754	C	10485	10	ASN4036	3/26/2025 2:41	3/26/2025 2:51
21E226751	D	10361	10	ASN4036	3/26/2025 2:41	3/26/2025 2:51

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G5020
Calibration 01/29

	High Voltage	Changed?	Chi Sq Passed?	Notes
Det A	1760	N	Y	
Det B	1760	N	Y	
Det C	1760	N	Y	
Det D	1760	N	Y	

Comments:

Det C and D brought back into service after maintenance 01/27/25

Collected by: _____ Date: ~~1/29/25~~ 1/29/25 1/29/2025

Approved by: _____ Date: 1/29/25

Detector Names G5020

Numerical:	Instrument:
1	1A
2	1B
3	1C
4	1D
5	2A
6	2B
7	2C
8	2D
9	3A
10	3B
11	3C
12	3D
13	4A
14	4B
15	4C
16	4D

Standards Used:
92SR4702137
92SR4702139
92SR4702136

High Voltage Plateau and Slope Calculation G5020

1/29/2025

Det1= 1A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	3070	3068	2	
1520	3472	3468	4	
1540	4012	4010	2	
1560	4349	4347	2	
1580	4885	4882	3	
1600	5124	5123	1	
1620	5531	5523	8	
1640	5737	5731	6	
1660	5781	5772	9	
1680	5821	5817	4	
1700	5992	5989	3	
1720	5891	5888	3	
1740	6067	6056	11	0.18%
1760	6162	6134	28	0.46%
1780	5962	5894	68	1.15%
1800	6214	6077	137	2.25%
1820	6044	5880	164	
1840	6196	6038	158	
1860	6106	5961	145	
1880	6198	6053	144	
1900	6297	6116	181	
1920	6108	5931	177	
1940	6258	6099	159	
1960	6264	6084	180	
1980	6058	5861	197	
2000	6067	5914	153	

	1740	1.47%	88
Slope Calc:	1760	0.13%	8
	1780	0.30%	18
	1800	2.88%	173

Det2= 1B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2152	2150	2	
1520	2596	2595	1	
1540	3027	3025	2	
1560	3491	3490	1	
1580	3954	3948	6	
1600	4332	4328	4	
1620	4639	4635	4	
1640	4959	4952	7	
1660	5304	5296	8	
1680	5541	5534	7	
1700	5387	5378	9	
1720	5397	5389	8	
1740	5665	5655	10	0.18%
1760	5614	5589	25	0.45%
1780	5723	5656	67	1.18%
1800	5874	5750	124	2.16%
1820	5814	5653	161	
1840	5826	5652	174	
1860	5704	5555	149	
1880	5745	5586	159	
1900	5813	5683	130	
1920	5793	5649	144	
1940	5771	5624	147	
1960	5709	5528	181	
1980	5801	5667	134	
2000	5827	5672	155	

	1740	6.68%	372
	1760	4.70%	264
	1780	0.05%	3
	1800	0.60%	34

Det3= 1C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2474	2471	3	
1520	2879	2876	3	
1540	3308	3307	1	
1560	3791	3789	2	
1580	4308	4302	6	
1600	4507	4501	6	
1620	4824	4814	10	
1640	5167	5160	7	
1660	5226	5221	5	
1680	5357	5350	7	
1700	5456	5451	5	
1720	5528	5524	4	
1740	5671	5658	13	0.23%
1760	5536	5501	35	0.64%
1780	5663	5597	66	1.18%
1800	5755	5608	147	2.62%
1820	5810	5633	177	
1840	5775	5609	166	
1860	5643	5458	185	
1880	5681	5507	174	
1900	5715	5523	192	
1920	5739	5540	199	
1940	5686	5507	179	
1960	5793	5626	167	
1980	5670	5500	170	
2000	5719	5522	197	

	1740	2.83%	157
	1760	1.95%	109
	1780	0.87%	49
	1800	0.77%	43

Det4= 1D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2322	2320	2	
1520	2689	2686	3	
1540	3201	3201	0	
1560	3550	3550	0	
1580	4161	4154	7	
1600	4386	4384	2	
1620	4707	4704	3	
1640	5047	5043	4	
1660	5368	5360	8	
1680	5379	5374	5	
1700	5530	5525	5	
1720	5696	5688	8	
1740	5762	5746	16	0.28%
1760	5639	5626	13	0.23%
1780	5820	5761	59	1.02%
1800	5751	5581	170	3.05%
1820	5750	5573	177	
1840	5798	5622	176	
1860	5980	5801	179	
1880	5890	5707	183	
1900	5879	5708	171	
1920	5824	5644	180	
1940	5849	5674	175	
1960	5841	5663	178	
1980	5710	5527	182	
2000	5792	5628	164	

	1740	0.99%	56
	1760	2.03%	115
	1780	2.19%	124
	1800	3.09%	175

DECAY CALCUALTION

Sr-90/Y90
No. 92SR470-2137

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 11-May-92
DATE OF CALIBRATION 29-Jan-25

			uncert	
Ao =	23800	dpm	1190	dpm
N =	0.02		0.02	
T(1/2) =	28.60	years	28.60	years
T =	32.74	years	32.74	years
dilution =	1.00		1.00	
A =	10765.11	dpm	538.26	dpm

CPM Acceptance Range

2368.3	118.42	
2131.5	**2013**	**Low**
2605.2	**2724**	**High**

Approval: _____ Date:_____

DECAY CALCUALTION

Sr-90/Y90
No. 92SR470-2139

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 03-Jun-92
DATE OF CALIBRATION 29-Jan-25

			uncert	
Ao =	20700	dpm	1040	dpm
N =	0.02		0.02	
T(1/2) =	28.60	years	28.60	years
T =	32.68	years	32.68	years
dilution =	1.00		1.00	
A =	9377.24	dpm	471.13	dpm

CPM Acceptance Range

2063	103.65	
1856.7	**1753**	**Low**
2269.3	**2373**	**High**

DECAY CALCUALTION

Sr-90/Y90
No. 92SR470-2136

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 11-May-92
DATE OF CALIBRATION 29-Jan-25

			uncert	
Ao =	16100	dpm	805	dpm
N =	0.02		0.02	
T(1/2) =	28.60	years	28.60	years
T =	32.74	years	32.74	years
dilution =	1.00		1.00	
A =	7282.28	dpm	364.11	dpm

CPM Acceptance Range

1602.1	80.105
1441.9	**1362 Low**
1762.3	**1842 High**

Approval: _____ Date:_____

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:05
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	3070	3068	2
1520	3472	3468	4
1540	4012	4010	2
1560	4349	4347	2
1580	4885	4882	3
1600	5124	5123	1
1620	5531	5523	8
1640	5737	5731	6
1660	5781	5772	9
1680	5821	5817	4
1700	5992	5989	3
1720	5891	5888	3
1740	6067	6056	11
1760	6162	6134	28
1780	5962	5894	68
1800	6214	6077	137
1820	6044	5880	164
1840	6196	6038	158
1860	6106	5961	145
1880	6198	6053	144
1900	6297	6116	181
1920	6108	5931	177
1940	6258	6099	159
1960	6264	6084	180
1980	6058	5861	197

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:05
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	6067	5914	153

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

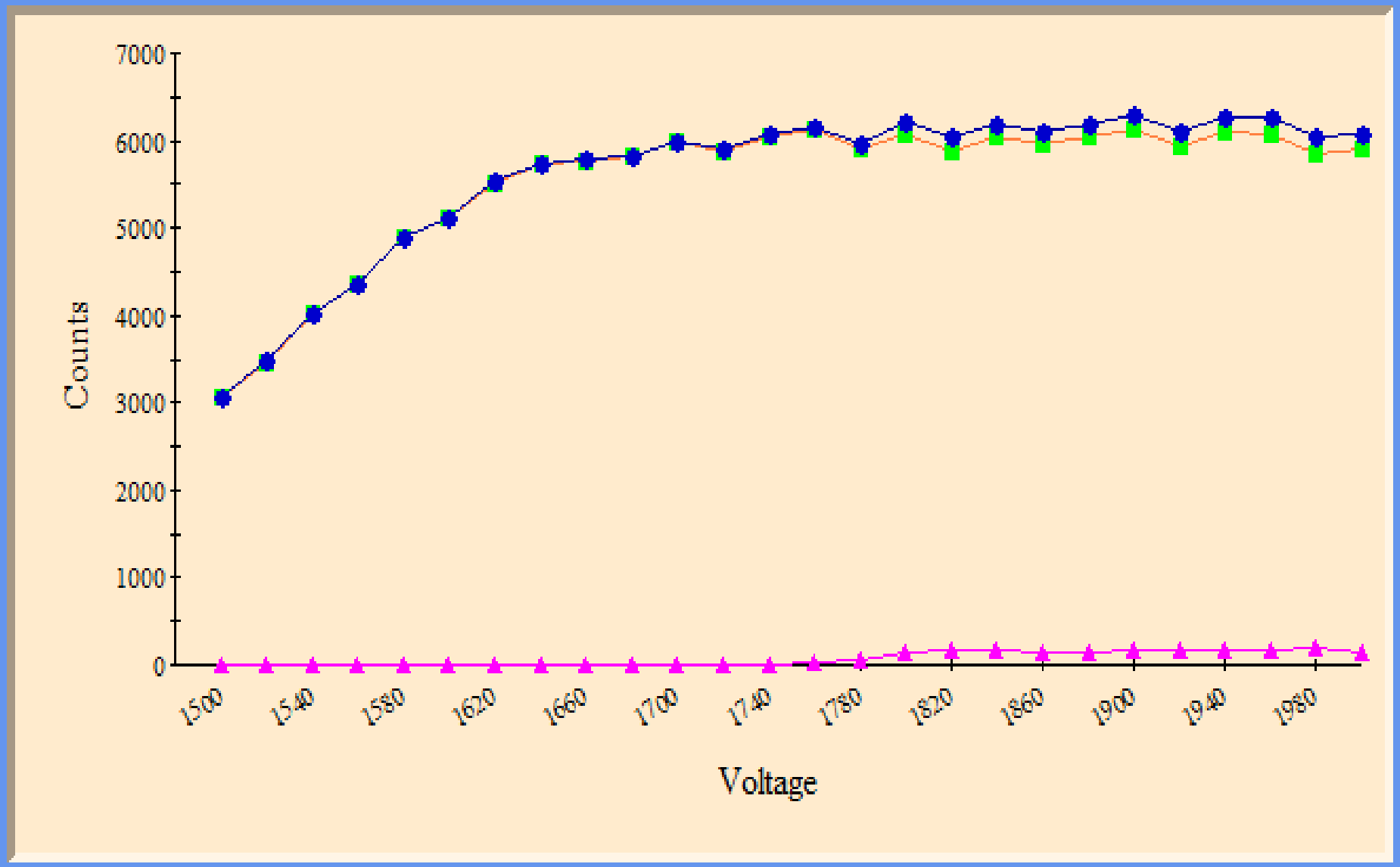
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

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High Voltage Plateau Plot



Source Certificate - 92SR4702137 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 01/29/2025 10:05:00 AM Detector - A

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:45
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** B **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2152	2150	2
1520	2596	2595	1
1540	3027	3025	2
1560	3491	3490	1
1580	3954	3948	6
1600	4332	4328	4
1620	4639	4635	4
1640	4959	4952	7
1660	5304	5296	8
1680	5541	5534	7
1700	5387	5378	9
1720	5397	5389	8
1740	5665	5655	10
1760	5614	5589	25
1780	5723	5656	67
1800	5874	5750	124
1820	5814	5653	161
1840	5826	5652	174
1860	5704	5555	149
1880	5745	5586	159
1900	5813	5683	130
1920	5793	5649	144
1940	5771	5624	147
1960	5709	5528	181
1980	5801	5667	134

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:45
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** B **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	5827	5672	155

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

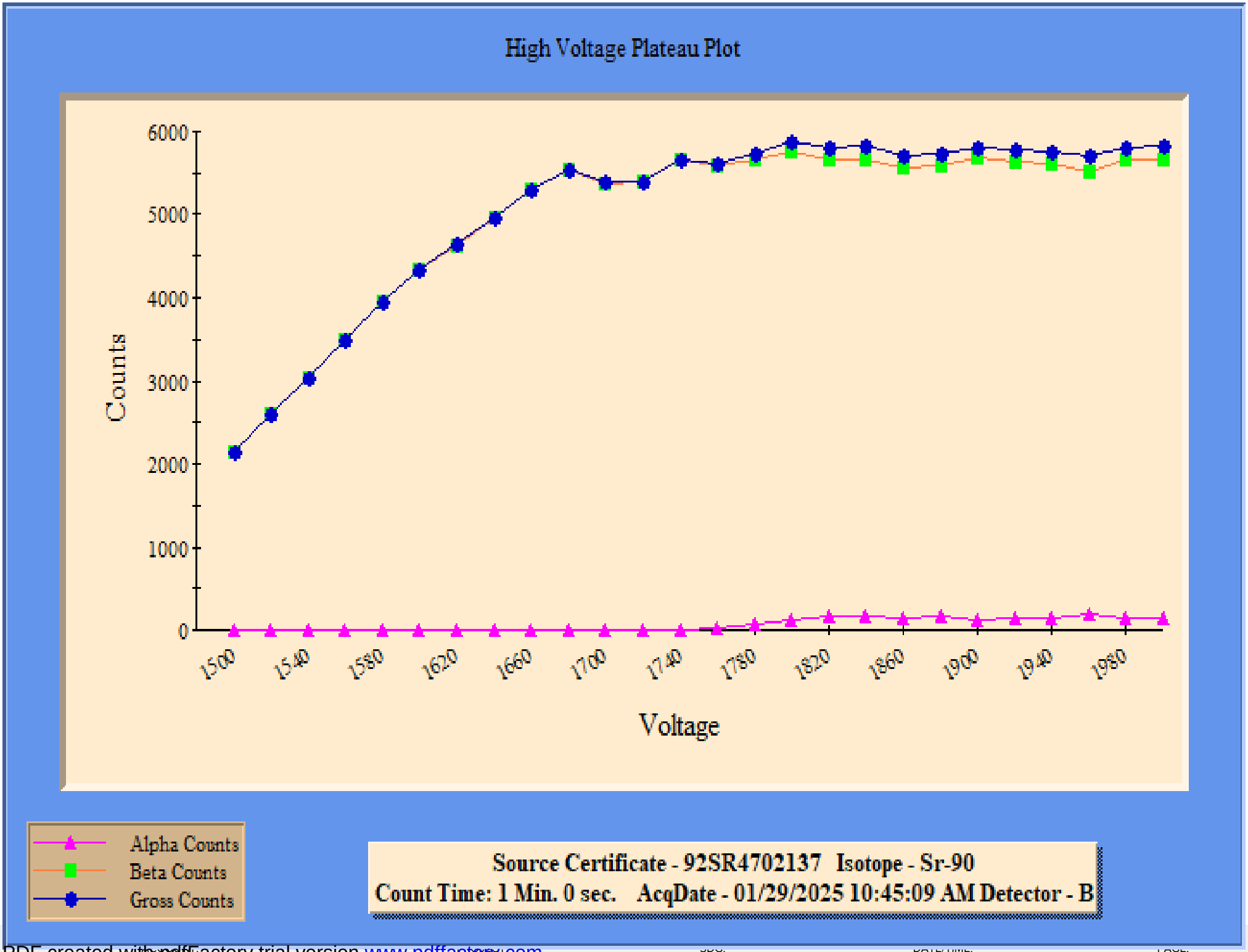
Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 11:24
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2474	2471	3
1520	2879	2876	3
1540	3308	3307	1
1560	3791	3789	2
1580	4308	4302	6
1600	4507	4501	6
1620	4824	4814	10
1640	5167	5160	7
1660	5226	5221	5
1680	5357	5350	7
1700	5456	5451	5
1720	5528	5524	4
1740	5671	5658	13
1760	5536	5501	35
1780	5663	5597	66
1800	5755	5608	147
1820	5810	5633	177
1840	5775	5609	166
1860	5643	5458	185
1880	5681	5507	174
1900	5715	5523	192
1920	5739	5540	199
1940	5686	5507	179
1960	5793	5626	167
1980	5670	5500	170

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 11:24
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	5719	5522	197

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

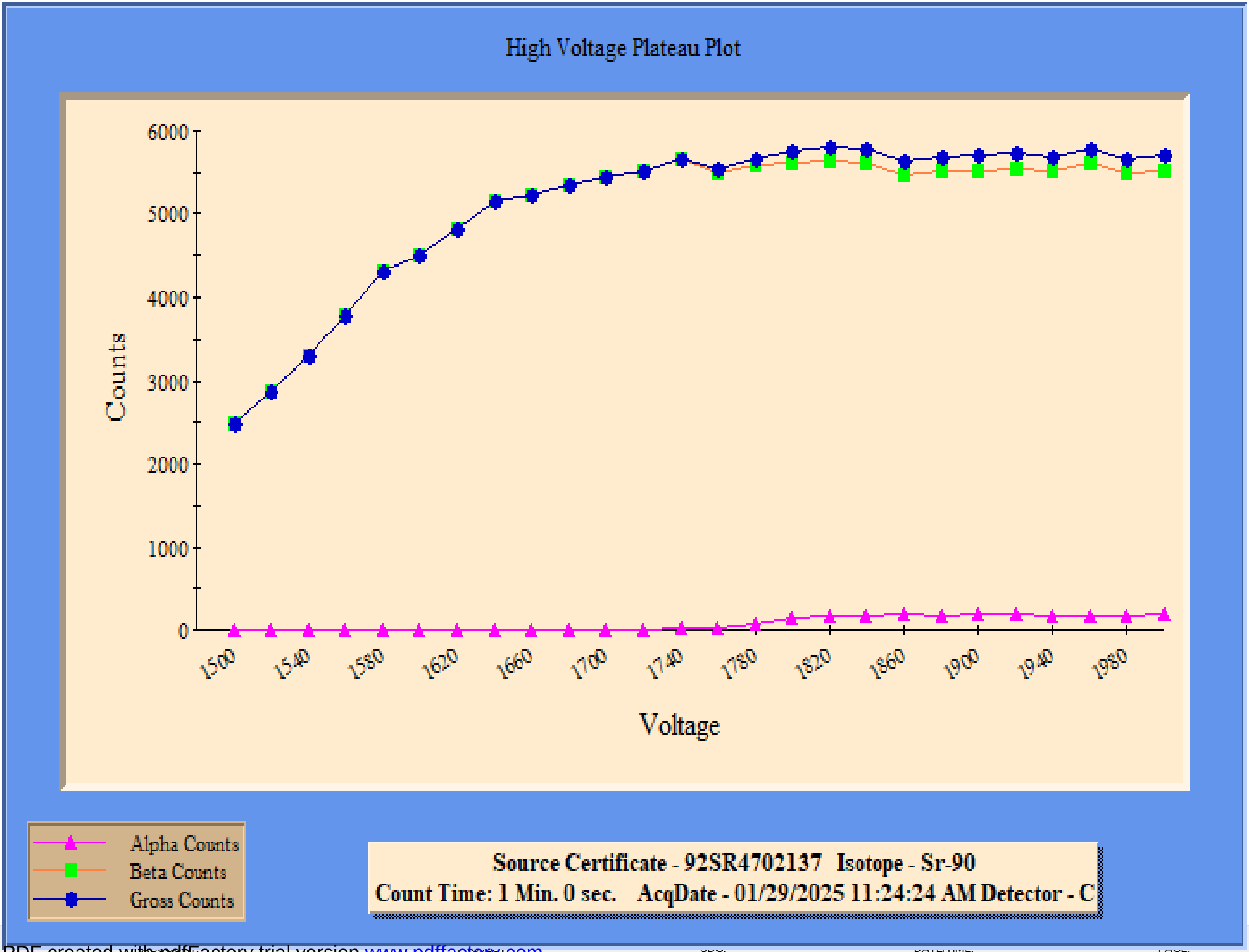
Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 11:55
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** D **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2322	2320	2
1520	2689	2686	3
1540	3201	3201	0
1560	3550	3550	0
1580	4161	4154	7
1600	4386	4384	2
1620	4707	4704	3
1640	5047	5043	4
1660	5368	5360	8
1680	5379	5374	5
1700	5530	5525	5
1720	5696	5688	8
1740	5762	5746	16
1760	5639	5626	13
1780	5820	5761	59
1800	5751	5581	170
1820	5750	5573	177
1840	5798	5622	176
1860	5980	5801	179
1880	5890	5707	183
1900	5879	5708	171
1920	5824	5644	180
1940	5849	5674	175
1960	5841	5663	178
1980	5710	5527	182

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Test Date: 01/29/2025 11:55
System Serial #: 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 92SR4702137
Isotope Name: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	5792	5628	164

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

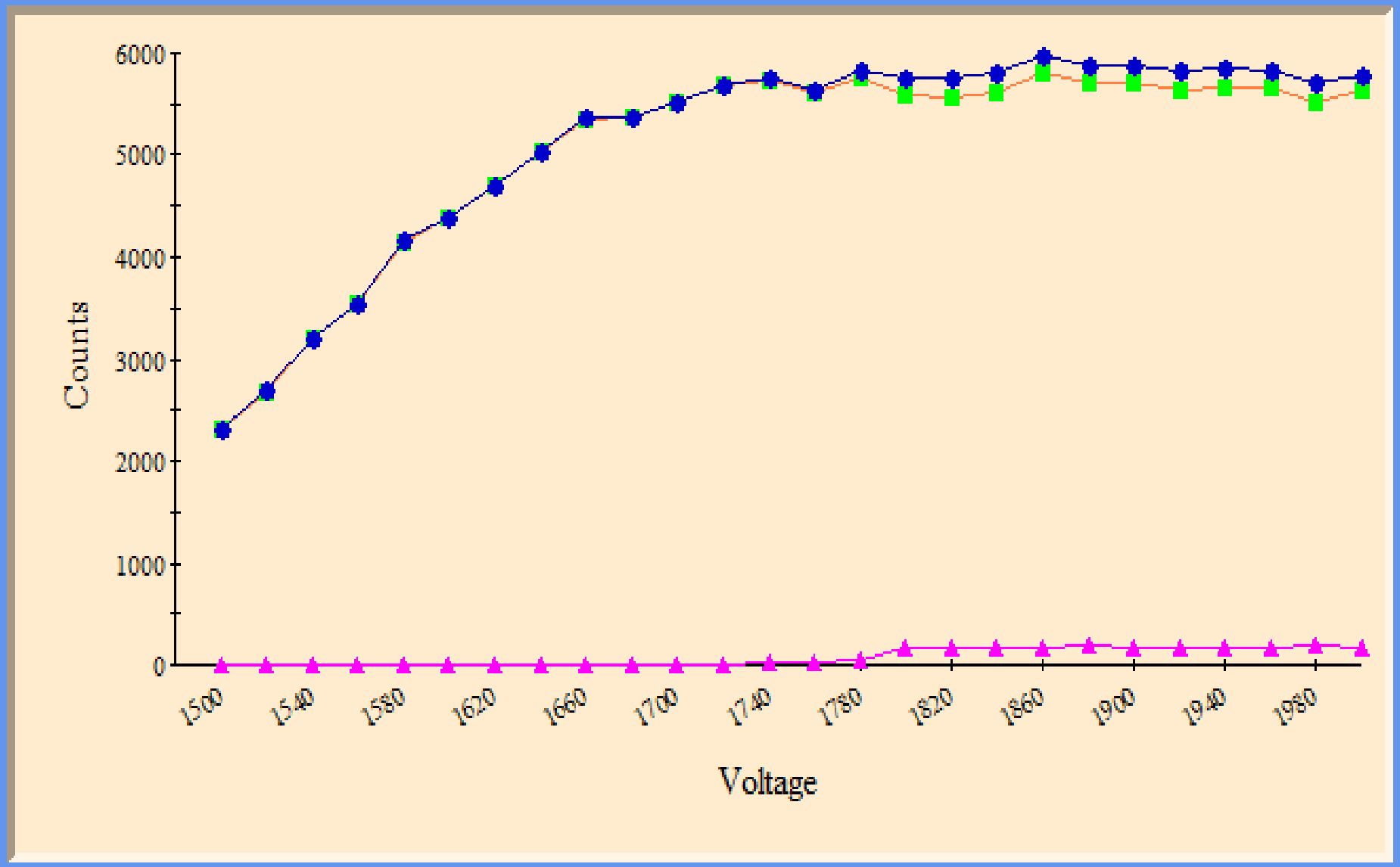
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

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High Voltage Plateau Plot



Source Certificate - 92SR4702137 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 01/29/2025 11:55:19 AM Detector - D

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 15:11
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702139
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	4890	40
2	5083	29
3	4955	24
4	4983	30
5	4922	22
6	4971	16
7	5075	22
8	4929	25
9	5005	22
10	4941	21
11	5057	27
12	4961	28
13	4985	23
14	5016	26
15	5122	25
16	5053	28
17	5015	14
18	4930	15
19	4916	14
20	4957	22

(Xbar) Mean:	4988.30	23.65
Calculated Chi-Sqr Value:	15.36	30.97

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** B
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 13:20
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702136
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	3680	15
2	3908	19
3	3816	14
4	3810	12
5	3728	15
6	3912	13
7	3780	14
8	3793	10
9	3762	13
10	3769	19
11	3793	22
12	3752	16
13	3848	15
14	3707	21
15	3807	15
16	3710	11
17	3688	17
18	3721	12
19	3829	12
20	3776	15

(Xbar) Mean:	3779.45	15.00
Calculated Chi-Sqr Value:	21.22	13.33

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** C
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 13:57
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702136
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	3602	25
2	3704	22
3	3654	21
4	3720	25
5	3720	15
6	3691	14
7	3751	19
8	3773	15
9	3706	7
10	3718	16
11	3726	23
12	3675	21
13	3740	18
14	3795	18
15	3767	19
16	3729	17
17	3688	18
18	3644	22
19	3722	23
20	3782	17

(Xbar) Mean:	3715.35	18.75
Calculated Chi-Sqr Value:	11.83	18.65

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** D
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 14:21
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702136
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	3765	23
2	3785	24
3	3785	12
4	3842	14
5	3836	25
6	3881	9
7	3733	21
8	3783	21
9	3746	18
10	3854	19
11	3849	12
12	3699	15
13	3796	16
14	3742	14
15	3793	21
16	3745	16
17	3716	14
18	3756	15
19	3675	32
20	3762	22

(Xbar) Mean:	3777.15	18.15
Calculated Chi-Sqr Value:	14.98	31.77

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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904/9320 Radiochemistry

Radiochemistry Raw Data

RADIUM-228
METHOD: **EPA 904/9320**
SDG# WG2470390

Lab ID	Result	2σ CE	2σTPU	SDWA DL	Lc	MDA	UNITS	PREP DATE	ANALYSIS DATE	ANALYST
BLANK WG2470390	0.095	0.146	0.294	0.264	0.149	0.283	pCi/l	3/17/2025	3/20/2025	DDD3903
LCS WG2470390	4.224	0.230	0.371	0.312	0.175	0.334	pCi/l	3/17/2025	3/20/2025	DDD3903
MS L1835110-03 WG2470390	17.454	0.812	1.305	1.010	0.569	1.085	pCi/l	3/17/2025	3/20/2025	DDD3903
MSD L1835110-03 WG2470390	17.000	0.858	1.363	1.126	0.632	1.210	pCi/l	3/17/2025	3/20/2025	DDD3903
DUP L1836138-02 WG2470390	-0.329	0.388	0.692	0.711	0.398	0.764	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835110-03 WG2470390	1.057	0.418	0.731	0.725	0.407	0.779	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835110-05 WG2470390	2.424	0.409	0.713	0.671	0.377	0.721	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835110-07 WG2470390	1.375	0.323	0.543	0.546	0.305	0.587	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835110-09 WG2470390	1.893	0.323	0.541	0.532	0.298	0.572	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835187-01 WG2470390	1.189	0.447	0.774	0.774	0.436	0.832	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835187-03 WG2470390	-0.035	0.356	0.656	0.647	0.363	0.695	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835187-05 WG2470390	0.442	0.337	0.635	0.599	0.337	0.642	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835187-06 WG2470390	0.107	0.297	0.610	0.543	0.308	0.582	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835200-01 WG2470390	-0.874	0.384	0.692	0.724	0.407	0.778	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835200-02 WG2470390	0.151	0.347	0.591	0.625	0.351	0.671	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835200-03 WG2470390	0.367	0.385	0.708	0.690	0.390	0.740	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835489-01 WG2470390	1.474	0.279	0.486	0.463	0.260	0.498	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835496-01 WG2470390	0.349	0.477	0.960	0.861	0.488	0.923	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835679-01 WG2470390	0.768	0.205	0.416	0.347	0.197	0.373	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835680-01 WG2470390	0.486	0.277	0.570	0.489	0.278	0.525	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835703-01 WG2470390	-0.204	0.443	0.757	0.805	0.451	0.865	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835703-02 WG2470390	0.031	0.248	0.472	0.453	0.256	0.486	pCi/l	3/17/2025	3/20/2025	DDD3903
L1836138-01 WG2470390	-0.349	0.281	0.506	0.523	0.294	0.560	pCi/l	3/17/2025	3/20/2025	DDD3903
L1836138-02 WG2470390	0.076	0.358	0.664	0.651	0.366	0.698	pCi/l	3/17/2025	3/20/2025	DDD3903
L1836138-03 WG2470390	0.210	0.229	0.446	0.412	0.233	0.442	pCi/l	3/17/2025	3/20/2025	DDD3903
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/l	3/17/2025	1/0/1900	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/l	3/17/2025	1/0/1900	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/l	3/17/2025	1/0/1900	

RADIUM-228

METHOD: EPA 904/9320
SDG# WG2470390
ANALYST: DDD3903
PREP DATE: 3/17/25 10:10

Matrix: NPW/DW

LAB ID	sample date	sample size (L)	ingrowth start	decay start	t3 min	count date/end time	counts	UNIT/DET no.	UNIT	DET no.	back CPM	COUNTER EFF	SAMPLE DECAY DAYS	SAMPLE DECAY FACTOR	t1 min	Count Time t2 min	λt_2 $(1-e^{-\lambda t}2)$	1 $(1-e^{-\lambda t}3)$	1 $e^{-\lambda t}1$	Ba % rec	Y %rec	Ra228 pCi/l
BLANK WG2470390	**3/17/25 10:10**	1.000	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	242	4A-1	4	1	1.15	47.27	0.01	1.00	91	200	1.200	1.002	1.186	100.0%	88.7%	0.095
LCS WG2470390	**3/17/25 10:10**	1.000	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	965	4A-2	4	2	1.88	46.61	0.01	1.00	91	200	1.200	1.002	1.186	100.0%	96.3%	4.224
MS L1835110-03 WG2470390	3/11/2025 12:30	0.300	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	962	4A-3	4	3	1.47	46.51	0.03	1.00	91	200	1.200	1.002	1.186	100.0%	88.4%	17.454
MSD L1835110-03 WG2470390	3/11/2025 12:30	0.300	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	987	4A-4	4	4	1.76	47.93	0.03	1.00	91	200	1.200	1.002	1.186	94.0%	89.1%	17.000
DUP L1836138-02 WG2470390	3/13/2025 11:00	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	374	4B-1	4	5	1.97	48.13	0.02	1.00	91	200	1.200	1.002	1.186	94.4%	88.7%	-0.329
L1835110-03 WG2470390	3/11/2025 12:30	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	421	4B-2	4	6	1.80	48.01	0.03	1.00	91	200	1.200	1.002	1.186	92.6%	85.0%	1.057
L1835110-05 WG2470390	3/11/2025 11:00	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	501	4B-3	4	7	1.75	48.05	0.03	1.00	91	200	1.200	1.002	1.186	97.7%	85.9%	2.424
L1835110-07 WG2470390	3/11/2025 12:25	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	544	4B-4	4	8	2.14	47.46	0.03	1.00	91	200	1.200	1.002	1.186	100.0%	82.1%	1.375
L1835110-09 WG2470390	3/11/2025 11:15	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	539	4C-1	4	9	1.92	45.46	0.03	1.00	91	200	1.200	1.002	1.186	98.3%	84.9%	1.893
L1835187-01 WG2470390	3/11/2025 12:40	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	377	4C-2	4	10	1.58	46.30	0.03	1.00	91	200	1.200	1.002	1.186	84.3%	85.3%	1.189
L1835187-03 WG2470390	3/11/2025 15:45	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	324	4C-3	4	11	1.63	46.97	0.03	1.00	91	200	1.200	1.002	1.186	100.0%	86.2%	-0.035
L1835187-05 WG2470390	3/11/2025 15:45	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	301	4C-4	4	12	1.37	46.58	0.03	1.00	91	200	1.200	1.002	1.186	96.0%	90.0%	0.442
L1835187-06 WG2470390	3/11/2025 17:34	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	197	4D-1	4	13	0.95	47.64	0.03	1.00	91	200	1.200	1.002	1.187	87.5%	89.8%	0.107
L1835200-01 WG2470390	3/11/2025 12:40	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	282	3A-1	3	1	1.66	43.98	0.03	1.00	91	200	1.200	1.002	1.187	100.0%	82.8%	-0.874
L1835200-02 WG2470390	3/11/2025 15:45	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	348	3A-2	3	2	1.69	45.68	0.03	1.00	91	200	1.200	1.002	1.187	76.6%	87.0%	0.151
L1835200-03 WG2470390	3/11/2025 17:34	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	262	3A-3	3	3	1.22	44.70	0.03	1.00	91	200	1.200	1.002	1.187	90.7%	81.5%	0.367
L1835489-01 WG2470390	3/11/2025 7:30	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	472	3A-4	3	4	1.70	44.74	0.03	1.00	91	200	1.200	1.002	1.187	95.7%	96.2%	1.474
L1835496-01 WG2470390	3/11/2025 11:40	0.300	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	224	3B-1	3	5	1.05	44.86	0.03	1.00	91	200	1.200	1.002	1.187	100.0%	91.9%	0.349
L1835679-01 WG2470390	3/6/2025 8:10	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	270	3B-2	3	6	1.00	47.94	0.04	1.00	91	200	1.200	1.002	1.187	100.0%	89.0%	0.768
L1835680-01 WG2470390	3/6/2025 9:20	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	215	3B-3	3	7	0.92	45.40	0.04	1.00	91	200	1.200	1.002	1.187	100.0%	90.1%	0.486
L1835703-01 WG2470390	3/12/2025 8:20	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	380	3B-4	3	8	1.96	44.39	0.02	1.00	91	200	1.200	1.002	1.187	100.0%	79.9%	-0.204
L1835703-02 WG2470390	3/12/2025 9:35	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	245	3C-1	3	9	1.21	45.35	0.02	1.00	91	200	1.200	1.002	1.187	94.5%	83.8%	0.031
L1836138-01 WG2470390	3/13/2025 11:00	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	285	3C-2	3	10	1.56	44.92	0.02	1.00	91	200	1.200	1.002	1.187	87.8%	88.9%	-0.349
L1836138-02 WG2470390	3/13/2025 11:00	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	284	3C-3	3	11	1.40	45.54	0.02	1.00	91	200	1.200	1.002	1.187	88.8%	92.6%	0.076
L1836138-03 WG2470390	3/13/2025 11:00	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	232	3C-4	3	12	1.08	44.85	0.02	1.00	91	200	1.200	1.002	1.187	90.3%	92.0%	0.210
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!

=Daily backgrounds used

RADIUM 228 QC REPORT

METHOD: EPA 904/9320
SDG# WG2470390
ANALYST: DDD3903

QC SPIKE INFORMATION
VOLUME USED: **0.5**
QC ID: 24H07307
ACTIVITY: 10.0 pCi/ml

Analyte **Ra228** units pCi/L
Matrix
Sample 336138-02 WG2470390

	RESULT	ERROR	2σTPU	SDWA DL	Lc	MDA	known	%REC	LIMITS LOW	LIMITS HIGH	RPD	LIMITS	RER	LIMITS
BLANK WG2470390	0.095	0.146	0.294	0.264	0.149	0.283								
LCS WG2470390	4.224	0.230	0.371	0.312	0.175	0.334	5.0	**84.5%**	80%	120%				
L1836138-02 WG2470390	0.076	0.358	0.664	0.651	0.366	0.698								
DUP L1836138-02 WG2470390	-0.329	0.388	0.692	0.711	0.398	0.764					**NC**	20%	**0.766**	3
L1835110-03 WG2470390	1.057	0.418	0.731	0.725	0.407	0.779								
MS L1835110-03 WG2470390	17.45	0.81	1.31	1.01	0.57	1.09	16.7	**98.4%**	70%	130%				
MSD L1835110-03 WG2470390	17.00	0.86	1.36	1.13	0.63	1.21	16.7	**95.7%**	70%	130%	**2.6%**	20%	**0.38**	3

*** - Outside Control Limits**

SAMPLES:

BLANK WG2470390	L1835187-05 WG24	L1836138-01 WG2470390
LCS WG2470390	L1835187-06 WG24	L1836138-02 WG2470390
MS L1835110-03 WG2470390	L1835200-01 WG24	L1836138-03 WG2470390
MSD L1835110-03 WG2470390	L1835200-02 WG2470390	
DUP L1836138-02 WG2470390	L1835200-03 WG2470390	
L1835110-03 WG2470390	L1835489-01 WG2470390	
L1835110-05 WG2470390	L1835496-01 WG2470390	
L1835110-07 WG2470390	L1835679-01 WG2470390	
L1835110-09 WG2470390	L1835680-01 WG2470390	
L1835187-01 WG2470390	L1835703-01 WG2470390	
L1835187-03 WG2470390	L1835703-02 WG2470390	

3/20/2025

DECAY CALCUALTION

Th-232 Source
Source No. 2471-55
ESC58532
Pace No. 24H07307

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 07-Aug-24
DATE OF CALIBRATION 17-Mar-25

Ao =	1.03	nCi
N =	0.00	
T(1/2) =	1.41E+10	years
T =	0.00	years
dilution =	1.00	
A =	1.03	nCi
A =	2288.82	dpm/ml
A =	1031.00	pCi/ml
Stock =	1031	pCi/ml
Stock	9.7	ml
DI	1000	pCi/ml
A =	10.0 +/-	0.30013432 pCi/ml

Pace Analytical

View as PDF (CreatePDF?batchnum=WG2470390)

RA-228 Aqueous Radiochemistry Prep Benchsheet

Batch: WG2470390

Analyst: TBP4289 Prep Start Date/Time: 03/17/25 10:10 Prep End Date/Time: 03/20/25 23:53 Method: 904 SOP: ENV-SOP-MTJL-0300/0322 Pipet ID: E-24, E-21, E-12 Balance ID: RADBAL3
Stirrer ID: ST 15, 34, 42, 43, 44 Hotplate ID: HP 20, 21 Centrifuge ID: C 5, C 6 Centrifuge Tube Lot: 920142 Transfer Pipet Lot: 24450561 1mL e-Pipet Tip Lot: 2243 2mL e-Pipet Tip Lot: 2418
10mL e-Pipet Tip Lot: 2332 10mL Manual Pipet Tip Lot: p7601073 pH Lot: 10BDH3921 Filter Lot#: N/A Filter Lot#: N/A

LCS/MS Spike: 24H07307 Amt. Used: 0.50 mL Exp. Date:08/07/25 16 mg/mL Barium Carrier: 25A31529 Amt. Used: 2 mL Exp. Date:05/31/25 1M Citric Acid: 25A24419 Amt. Used: 5 mL Exp. Date:09/30/25
Methyl Orange: 25A24421 Amt. Used: 0.20 mL Exp. Date:01/24/26 15 mg/mL Lead Carrier: 25C12783 Amt. Used: 10 mL Exp. Date:03/12/26 10 mg/mL Strontium Carrier: 25C04631 Amt. Used: 2 mL Exp. Date:03/31/25
18 mg/mL Yttrium Carrier: 25A09528 Amt. Used: 1 mL Exp. Date:01/09/26 Ammonium Hydroxide: 25B25404 Amt. Used: 10 mL Exp. Date:07/08/25 1:1 H2SO4: 25C13088 Amt. Used: 10 mL Exp. Date:03/13/26
200 mg/mL Ammonium Sulfate: 25C03355 Amt. Used: 16 mL Exp. Date:03/03/26 Nitric Acid: 25B18381 Amt. Used: 34 mL Exp. Date:09/30/29 0.25N Basic EDTA: 24K23552 Amt. Used: 85 mL Exp. Date:11/23/25
0.9mg/mL each Sr/Y Carrier: 25A20695 Amt. Used: 2 mL Exp. Date:03/31/25 Acetic Acid: 24H09546 Amt. Used: 20 mL Exp. Date:02/28/26 1.5mg/mL Lead Carrier: 25B27873 Amt. Used: 2 mL Exp. Date:02/21/26
2% NH4 Sulfide: 25C13070 Amt. Used: 0.50 mL Exp. Date:03/13/26 9 mg/mL Yttrium Carrier: 25A21880 Amt. Used: 1 mL Exp. Date:01/21/26 18N NaOH: 25B27930 Amt. Used: 5 mL Exp. Date:02/27/26
6N Nitric Acid: 25C14182 Amt. Used: 2 mL Exp. Date:03/14/26 10N NaOH: 25B27929 Amt. Used: 4 mL Exp. Date:02/27/26 1N Nitric Acid: 24K20078 Amt. Used: 3.50 mL Exp. Date:11/20/25
5% Ammonium Oxalate: 25C07143 Amt. Used: 3.50 mL Exp. Date:03/07/28

Sample Number	Collect Date	Sample Vol. (L or filt)	Ac-228 Ingrowth Time	Ac-228 Decay Time	Y Planchet Tare (g)	Y Planchet Gross (g)	Y Planchet Net (g)	Ba Planchet Tare (g)	Ba Planchet Gross (g)	Ba Planchet Net (g)	Review Analyst	Review Date
BLANK		1.000	03/18/25 10:27:22	03/20/25 18:27:00	7.56636	7.59602	0.02966	7.49474	7.55265	0.05791	DDD3903	03/20/25 23:53:53
LCS		1.000	03/18/25 10:27:22	03/20/25 18:27:00	7.55494	7.58714	0.0322	7.49686	7.55418	0.05732	DDD3903	03/20/25 23:53:53
MS(L1835110-03)		0.300	03/18/25 10:27:22	03/20/25 18:27:00	7.54682	7.57637	0.02955	7.50715	7.56472	0.05757	DDD3903	03/20/25 23:53:53
MSD(L1835110-03)		0.300	03/18/25 10:27:22	03/20/25 18:27:00	7.63762	7.66742	0.0298	7.49698	7.54988	0.0529	DDD3903	03/20/25 23:53:53
DUP(L1836138-02)		0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.57163	7.60130	0.02967	7.52610	7.57922	0.05312	DDD3903	03/20/25 23:53:53
1. L1835110-03	03/11/25 12:30	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.56530	7.59371	0.02841	7.49537	7.54751	0.05214	DDD3903	03/20/25 23:53:53
2. L1835110-05	03/11/25 11:00	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.76237	7.79108	0.02871	7.49769	7.55268	0.05499	DDD3903	03/20/25 23:53:53
3. L1835110-07	03/11/25 12:25	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.65631	7.68377	0.02746	7.49010	7.54729	0.05719	DDD3903	03/20/25 23:53:53
4. L1835110-09	03/11/25 11:15	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.68049	7.70888	0.02839	7.52222	7.57755	0.05533	DDD3903	03/20/25 23:53:53
5. L1835187-01	03/11/25 12:40	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.64908	7.67759	0.02851	7.47690	7.52435	0.04745	DDD3903	03/20/25 23:53:53
6. L1835187-03	03/11/25 15:45	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.68617	7.71499	0.02882	7.51089	7.56755	0.05666	DDD3903	03/20/25 23:53:53
7. L1835187-05	03/11/25 15:45	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.57704	7.60712	0.03008	7.49722	7.55126	0.05404	DDD3903	03/20/25 23:53:53
8. L1835187-06	03/11/25 17:34	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.50235	7.53236	0.03001	7.48431	7.53358	0.04927	DDD3903	03/20/25 23:53:53
9. L1835200-01	03/11/25 12:40	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.44179	7.46948	0.02769	7.49512	7.55325	0.05813	DDD3903	03/20/25 23:53:53
10. L1835200-02	03/11/25 15:45	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.73900	7.76808	0.02908	7.51463	7.55776	0.04313	DDD3903	03/20/25 23:53:53
11. L1835200-03	03/11/25 17:34	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.58149	7.60872	0.02723	7.51501	7.56606	0.05105	DDD3903	03/20/25 23:53:53
12. L1835489-01	03/11/25 07:30	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.58669	7.61885	0.03216	7.50048	7.55436	0.05388	DDD3903	03/20/25 23:53:53
13. L1835496-01	03/11/25 11:40	0.300	03/18/25 10:27:22	03/20/25 18:27:00	7.59853	7.62925	0.03072	7.50358	7.56693	0.06335	DDD3903	03/20/25 23:53:53
14. L1835679-01	03/06/25 08:10	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.57743	7.60719	0.02976	7.50556	7.57147	0.06591	DDD3903	03/20/25 23:53:53
15. L1835680-01	03/06/25 09:20	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.60122	7.63134	0.03012	7.50005	7.56465	0.0646	DDD3903	03/20/25 23:53:53
16. L1835703-01	03/12/25 08:20	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.55595	7.58266	0.02671	7.49624	7.55927	0.06303	DDD3903	03/20/25 23:53:53
17. L1835703-02	03/12/25 09:35	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.61489	7.64289	0.028	7.50348	7.55667	0.05319	DDD3903	03/20/25 23:53:53
18. L1836138-01	03/13/25 11:00	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.56760	7.59731	0.02971	7.48221	7.53162	0.04941	DDD3903	03/20/25 23:53:53
19. L1836138-02	03/13/25 11:00	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.63399	7.66494	0.03095	7.50040	7.55037	0.04997	DDD3903	03/20/25 23:53:53
20. L1836138-03	03/13/25 11:00	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.56783	7.59860	0.03077	7.51657	7.56738	0.05081	DDD3903	03/20/25 23:53:53

Comments:Reviewed By:DDD3903 on 03/20/25 23:53:53

Yttrium Recovery

9 mg/ml(Y)

Known $Y_2(C_2O_4)_3 \cdot 9H_2O$

Standardized Value	9.84	mg/ml	Y_2	177.8 g/mol
Volume Added	1.00	mL	$Y_2(C_2O_4)_3.9H_2O$	603.8 g/mol
Mass Added	33.43	mg		

LAB ID	TARE(g)	GROSS(g)	NET(g)	Y %rec
BLANK WG2470390	7.56636	7.59602	0.0297	**89%**
LCS WG2470390	7.55494	7.58714	0.0322	**96.3%**
MS L1835110-03 WG2470390	7.54682	7.57637	0.0295	**88.4%**
MSD L1835110-03 WG2470390	7.63762	7.66742	0.0298	**89.1%**
DUP L1836138-02 WG2470390	7.57163	7.6013	0.0297	**89%**
L1835110-03 WG2470390	7.5653	7.59371	0.0284	**85.0%**
L1835110-05 WG2470390	7.76237	7.79108	0.0287	**85.9%**
L1835110-07 WG2470390	7.65631	7.68377	0.0275	**82.1%**
L1835110-09 WG2470390	7.68049	7.70888	0.0284	**84.9%**
L1835187-01 WG2470390	7.64908	7.67759	0.0285	**85.3%**
L1835187-03 WG2470390	7.68617	7.71499	0.0288	**86.2%**
L1835187-05 WG2470390	7.57704	7.60712	0.0301	**90%**
L1835187-06 WG2470390	7.50235	7.53236	0.0300	**89.8%**
L1835200-01 WG2470390	7.44179	7.46948	0.0277	**82.8%**
L1835200-02 WG2470390	7.739	7.76808	0.0291	**87.0%**
L1835200-03 WG2470390	7.58149	7.60872	0.0272	**81.5%**
L1835489-01 WG2470390	7.58669	7.61885	0.0322	**96.2%**
L1835496-01 WG2470390	7.59853	7.62925	0.0307	**91.9%**
L1835679-01 WG2470390	7.57743	7.60719	0.0298	**89.0%**
L1835680-01 WG2470390	7.60122	7.63134	0.0301	**90.1%**
L1835703-01 WG2470390	7.55595	7.58266	0.0267	**79.9%**
L1835703-02 WG2470390	7.61489	7.64289	0.0280	**83.8%**
L1836138-01 WG2470390	7.5676	7.59731	0.0297	**88.9%**
L1836138-02 WG2470390	7.63399	7.66494	0.0309	**92.6%**
L1836138-03 WG2470390	7.56783	7.5986	0.0308	**92.0%**
0			0.0000	**0.0%**
0			0.0000	**0.0%**
0			0.0000	**0.0%**

25A21880 Standardization Date: 01/21/25

		Y2(C2O4)3.9H2O	Y g/mL	Y mg/mL
Tare (g)	Gross (g)	Net (g)		
0.08112	0.41313	0.33201	0.00978	9.7766
0.08088	0.41708	0.33620	0.00990	9.9000
0.08230	0.41703	0.33473	0.00986	9.8567

Avg. Y mg/mL

9.8445 ± 0.64%

Barium Recovery

16 mg/ml(Ba)

Known $BaSO_4$

Standardized Value	16.55	mg/ml	Ba	137	g/mol
volume added	2.00	ml			
	56.29	mg	$BaSO_4$	233	g/mol

25A31529 Standardization Date: 2/3/25				
T	G	N		
7.55195	7.60790	0.05595	0.02798	0.0164
7.56393	7.61980	0.05587	0.02793	0.0164
7.55326	7.61030	0.05704	0.02852	0.0168

16.55 +/- 1.2%

LAB ID	TARE(g)	GROSS(g)	NET(g)	%rec
BLANK WG2470390	7.49474	7.55265	0.0579	**103%**
LCS WG2470390	7.49686	7.55418	0.0573	**102%**
MS L1835110-03 WG2470390	7.50715	7.56472	0.0576	**102%**
MSD L1835110-03 WG2470390	7.49698	7.54988	0.0529	**94%**
DUP L1836138-02 WG2470390	7.5261	7.57922	0.0531	**94%**
L1835110-03 WG2470390	7.49537	7.54751	0.0521	**93%**
L1835110-05 WG2470390	7.49769	7.55268	0.0550	**98%**
L1835110-07 WG2470390	7.4901	7.54729	0.0572	**102%**
L1835110-09 WG2470390	7.52222	7.57755	0.0553	**98%**
L1835187-01 WG2470390	7.4769	7.52435	0.0475	**84%**
L1835187-03 WG2470390	7.51089	7.56755	0.0567	**101%**
L1835187-05 WG2470390	7.49722	7.55126	0.0540	**96%**
L1835187-06 WG2470390	7.48431	7.53358	0.0493	**88%**
L1835200-01 WG2470390	7.49512	7.55325	0.0581	**103%**
L1835200-02 WG2470390	7.51463	7.55776	0.0431	**77%**
L1835200-03 WG2470390	7.51501	7.56606	0.0511	**91%**
L1835489-01 WG2470390	7.50048	7.55436	0.0539	**96%**
L1835496-01 WG2470390	7.50358	7.56693	0.0633	**113%**
L1835679-01 WG2470390	7.50556	7.57147	0.0659	**117%**
L1835680-01 WG2470390	7.50005	7.56465	0.0646	**115%**
L1835703-01 WG2470390	7.49624	7.55927	0.0630	**112%**
L1835703-02 WG2470390	7.50348	7.55667	0.0532	**94%**
L1836138-01 WG2470390	7.48221	7.53162	0.0494	**88%**
L1836138-02 WG2470390	7.5004	7.55037	0.0500	**89%**
L1836138-03 WG2470390	7.51657	7.56738	0.0508	**90%**
0			0.0000	**0%**
0			0.0000	**0%**
0			0.0000	**0%**

G542 Runlog RA-228 Waters WG2470390

Sample order verified by DDD3903

Sample ID	Beta	LT	Det	Analyst	Start	End
BLANK WG2470390	242	200	4A-1	DDD3903	3/20/2025 19:57	3/20/2025 23:17
LCS WG2470390	965	200	4A-2	DDD3903	3/20/2025 19:57	3/20/2025 23:17
MS L1835110-03 WG2470390	962	200	4A-3	DDD3903	3/20/2025 19:57	3/20/2025 23:17
MSD L1835110-03 WG2470390	987	200	4A-4	DDD3903	3/20/2025 19:57	3/20/2025 23:17
DUP L1836138-02 WG2470390	374	200	4B-1	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835110-03 WG2470390	421	200	4B-2	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835110-05 WG2470390	501	200	4B-3	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835110-07 WG2470390	544	200	4B-4	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835110-09 WG2470390	539	200	4C-1	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835187-01 WG2470390	377	200	4C-2	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835187-03 WG2470390	324	200	4C-3	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835187-05 WG2470390	301	200	4C-4	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835187-06 WG2470390	197	200	4D-1	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835200-01 WG2470390	282	200	3A-1	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835200-02 WG2470390	348	200	3A-2	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835200-03 WG2470390	262	200	3A-3	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835489-01 WG2470390	472	200	3A-4	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835496-01 WG2470390	224	200	3B-1	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1835679-01 WG2470390	270	200	3B-2	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1835680-01 WG2470390	215	200	3B-3	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1835703-01 WG2470390	380	200	3B-4	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1835703-02 WG2470390	245	200	3C-1	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1836138-01 WG2470390	285	200	3C-2	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1836138-02 WG2470390	284	200	3C-3	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1836138-03 WG2470390	232	200	3C-4	DDD3903	3/20/2025 19:58	3/20/2025 23:18

Unit 3 Beta Efficiencies Det 1-8

		DET1	DET2	DET3	DET 4	DET 5	DET 6	DET 7	DET 8
		y = -0.00006x2 - 0.059x + 45.664	y = -0.0002x2 - 0.0408x + 47.033	y = -0.00004x2 - 0.0505x + 46.152	y = 0.00006x2 - 0.0538x + 46.412	y =- 0.00002x2 - 0.06x + 46.723	y = 0.00004x2 - 0.0598x + 46.129	y = -0.00007x2 - 0.0532x + 47.067	y = 0.00005x2 - 0.0635x + 46.051
	A	-0.00006	-0.0002	-0.0001	0.00006	-0.00002	0.00004	-0.00007	0.00005
	B	-0.059	-0.0408	-0.0505	-0.0538	-0.06	0.0598	-0.0532	-0.0635
	C	45.664	47.033	46.152	46.412	46.723	46.129	47.067	46.051
SAMPLE ID	NET WT. mg	**3A-1** BETA EFF	**3A-2** BETA EFF	**3A-3** BETA EFF	**3A-4** BETA EFF	**3B-1** BETA EFF	**3B-2** BETA EFF	**3B-3** BETA EFF	**3B-4** BETA EFF
BLANK WG2470390	29.66	43.9	45.6	44.6	44.9	44.9	47.9	45.4	44.2
LCS WG2470390	32.2	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.1
MS L1835110-03 WG2470390	29.55	43.9	45.7	44.6	44.9	44.9	47.9	45.4	44.2
MSD L1835110-03 WG2470390	29.8	43.9	45.6	44.6	44.9	44.9	47.9	45.4	44.2
DUP L1836138-02 WG2470390	29.67	43.9	45.6	44.6	44.9	44.9	47.9	45.4	44.2
L1835110-03 WG2470390	28.41	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
L1835110-05 WG2470390	28.71	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
L1835110-07 WG2470390	27.46	44.0	45.8	44.7	45.0	45.1	47.8	45.6	44.3
L1835110-09 WG2470390	28.39	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
L1835187-01 WG2470390	28.51	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
L1835187-03 WG2470390	28.82	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
L1835187-05 WG2470390	30.08	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.2
L1835187-06 WG2470390	30.01	43.8	45.6	44.5	44.9	44.9	48.0	45.4	44.2
L1835200-01 WG2470390	27.69	44.0	45.7	44.7	45.0	45.0	47.8	45.5	44.3
L1835200-02 WG2470390	29.08	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.2
L1835200-03 WG2470390	27.23	44.0	45.8	44.7	45.0	45.1	47.8	45.6	44.4
L1835489-01 WG2470390	32.16	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.1
L1835496-01 WG2470390	30.72	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.1
L1835679-01 WG2470390	29.76	43.9	45.6	44.6	44.9	44.9	47.9	45.4	44.2
L1835680-01 WG2470390	30.12	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.2
L1835703-01 WG2470390	26.71	44.0	45.8	44.7	45.0	45.1	47.8	45.6	44.4
L1835703-02 WG2470390	28	44.0	45.7	44.7	45.0	45.0	47.8	45.5	44.3
L1836138-01 WG2470390	29.71	43.9	45.6	44.6	44.9	44.9	47.9	45.4	44.2
L1836138-02 WG2470390	30.95	43.8	45.6	44.5	44.8	44.8	48.0	45.4	44.1
L1836138-03 WG2470390	30.77	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.1
0	0	45.7	47.0	46.2	46.4	46.7	46.1	47.1	46.1
0	0	45.7	47.0	46.2	46.4	46.7	46.1	47.1	46.1
0	0	45.7	47.0	46.2	46.4	46.7	46.1	47.1	46.1

Unit 3 Beta Efficiencies Det 9-16

		DET9	DET10	DET11	DET 12	DET 13	DET 14	DET 15	DET 16
		y = -0.00001x2 - 0.0623x +47.103	y = -0.00004x2 - 0.0573x + 46.66	y = 0.000002x2 - 0.0628x + 47.482	y = -0.00005x2 - 0.0534x + 46.539	y = 0.00004x2 - 0.0691x + 47.134	y = 0.00007x2 - 0.062x + 46.722	y = 0.0002x2 - 0.0656x + 46.404	y = -0.0001x2 - 0.0477x + 46.461
	A	-0.00001	-0.00004	0.000002	-0.00005	0.00004	0.00007	0.00002	-0.0001
	B	-0.0623	-0.0573	-0.0628	-0.0534	-0.0691	-0.062	-0.0656	-0.0477
	C	47.103	46.66	47.482	46.539	47.134	46.722	46.404	46.461
SAMPLE ID	NET WT. mg	**3C-1** BETA EFF	**3C-2** BETA EFF	**3C-3** BETA EFF	**3C-4** BETA EFF	**3D-1** BETA EFF	**3D-2** BETA EFF	**3D-3** BETA EFF	**3D-4** BETA EFF
BLANK WG2470390	29.66	45.2	44.9	45.6	44.9	45.1	44.9	44.5	45.0
LCS WG2470390	32.2	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
MS L1835110-03 WG2470390	29.55	45.3	44.9	45.6	44.9	45.1	45.0	44.5	45.0
MSD L1835110-03 WG2470390	29.8	45.2	44.9	45.6	44.9	45.1	44.9	44.5	45.0
DUP L1836138-02 WG2470390	29.67	45.2	44.9	45.6	44.9	45.1	44.9	44.5	45.0
L1835110-03 WG2470390	28.41	45.3	45.0	45.7	45.0	45.2	45.0	44.6	45.0
L1835110-05 WG2470390	28.71	45.3	45.0	45.7	45.0	45.2	45.0	44.5	45.0
L1835110-07 WG2470390	27.46	45.4	45.1	45.8	45.0	45.3	45.1	44.6	45.1
L1835110-09 WG2470390	28.39	45.3	45.0	45.7	45.0	45.2	45.0	44.6	45.0
L1835187-01 WG2470390	28.51	45.3	45.0	45.7	45.0	45.2	45.0	44.6	45.0
L1835187-03 WG2470390	28.82	45.3	45.0	45.7	45.0	45.2	45.0	44.5	45.0
L1835187-05 WG2470390	30.08	45.2	44.9	45.6	44.9	45.1	44.9	44.4	44.9
L1835187-06 WG2470390	30.01	45.2	44.9	45.6	44.9	45.1	44.9	44.5	44.9
L1835200-01 WG2470390	27.69	45.4	45.0	45.7	45.0	45.3	45.1	44.6	45.1
L1835200-02 WG2470390	29.08	45.3	45.0	45.7	44.9	45.2	45.0	44.5	45.0
L1835200-03 WG2470390	27.23	45.4	45.1	45.8	45.0	45.3	45.1	44.6	45.1
L1835489-01 WG2470390	32.16	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
L1835496-01 WG2470390	30.72	45.2	44.9	45.6	44.9	45.0	44.9	44.4	44.9
L1835679-01 WG2470390	29.76	45.2	44.9	45.6	44.9	45.1	44.9	44.5	45.0
L1835680-01 WG2470390	30.12	45.2	44.9	45.6	44.9	45.1	44.9	44.4	44.9
L1835703-01 WG2470390	26.71	45.4	45.1	45.8	45.1	45.3	45.1	44.7	45.1
L1835703-02 WG2470390	28	45.4	45.0	45.7	45.0	45.2	45.0	44.6	45.0
L1836138-01 WG2470390	29.71	45.2	44.9	45.6	44.9	45.1	44.9	44.5	45.0
L1836138-02 WG2470390	30.95	45.2	44.8	45.5	44.8	45.0	44.9	44.4	44.9
L1836138-03 WG2470390	30.77	45.2	44.9	45.6	44.8	45.0	44.9	44.4	44.9
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5

Unit 4 Beta Efficiencies Det 1-8

y = 0.000003x2 - 0.066x y = 0.0001x2 - 0.0498x + y = 0.00007x2 - 0.0559x y = 0.0001x2 - 0.0501x + y = 0.0006x2 - 0.0004x + y = 0.0002x2 - 0.0367x + y = 0.00004x2 - 0.0695x y = 0.000008x2 - 0.0632x +49.191

A	0.000003	0.0001	0.00007	0.0001	0.0006	0.0002	0.00004	0.000008
B	-0.066	-0.0498	-0.0559	-0.0501	-0.0004	-0.0367	-0.0695	-0.0632
C	49.22	48.106	48.098	49.339	47.611	48.89	50.012	49.191

SAMPLE ID	NET WT. mg	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF
=======	=====	=====	=====	=====	=====	=====	=====	=====	=====
BLANK WG2470390	29.66	47.3	46.7	46.5	47.9	48.1	48.0	48.0	47.3
LCS WG2470390	32.2	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
MS L1835110-03 WG2470390	29.55	47.3	46.7	46.5	47.9	48.1	48.0	48.0	47.3
MSD L1835110-03 WG2470390	29.8	47.3	46.7	46.5	47.9	48.1	48.0	48.0	47.3
DUP L1836138-02 WG2470390	29.67	47.3	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1835110-03 WG2470390	28.41	47.3	46.8	46.6	48.0	48.1	48.0	48.1	47.4
L1835110-05 WG2470390	28.71	47.3	46.8	46.6	48.0	48.1	48.0	48.0	47.4
L1835110-07 WG2470390	27.46	47.4	46.8	46.6	48.0	48.1	48.0	48.1	47.5
L1835110-09 WG2470390	28.39	47.3	46.8	46.6	48.0	48.1	48.0	48.1	47.4
L1835187-01 WG2470390	28.51	47.3	46.8	46.6	48.0	48.1	48.0	48.1	47.4
L1835187-03 WG2470390	28.82	47.3	46.8	46.5	48.0	48.1	48.0	48.0	47.4
L1835187-05 WG2470390	30.08	47.2	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1835187-06 WG2470390	30.01	47.2	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1835200-01 WG2470390	27.69	47.4	46.8	46.6	48.0	48.1	48.0	48.1	47.4
L1835200-02 WG2470390	29.08	47.3	46.7	46.5	48.0	48.1	48.0	48.0	47.4
L1835200-03 WG2470390	27.23	47.4	46.8	46.6	48.0	48.0	48.0	48.1	47.5
L1835489-01 WG2470390	32.16	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
L1835496-01 WG2470390	30.72	47.2	46.7	46.4	47.9	48.2	48.0	47.9	47.3
L1835679-01 WG2470390	29.76	47.3	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1835680-01 WG2470390	30.12	47.2	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1835703-01 WG2470390	26.71	47.5	46.8	46.7	48.1	48.0	48.1	48.2	47.5
L1835703-02 WG2470390	28	47.4	46.8	46.6	48.0	48.1	48.0	48.1	47.4
L1836138-01 WG2470390	29.71	47.3	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1836138-02 WG2470390	30.95	47.2	46.7	46.4	47.9	48.2	47.9	47.9	47.2
L1836138-03 WG2470390	30.77	47.2	46.7	46.4	47.9	48.2	48.0	47.9	47.3
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2

Unit 4 Beta Efficiencies Det 9-16

	y = 0.0001x2 - 0.0881x +	y = 0.000009x2 - 0.0693	y = 0.00006x2 - 0.077x +	y = 0.00001x2 - 0.064x +	y = 0.00008x2 - 0.0606x	y = 0.0001x2 - 0.0548x +	y = 0.00002x2 - 0.0667x	y = 0.0004x2 - 0.1078x +50.001
A	0.0001	0.000009	0.00006	0.00001	0.00008	0.0001	0.00002	0.0004
B	-0.0881	-0.0693	-0.077	-0.064	-0.0606	-0.0548	-0.0667	-0.1078
C	47.883	48.266	49.14	48.492	49.387	49.512	48.519	50.001

SAMPLE ID	WT. mg	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF
BLANK WG2470390	29.66	45.4	46.2	46.9	46.6	47.7	48.0	46.6	47.2
LCS WG2470390	32.2	45.1	46.0	46.7	46.4	47.5	47.9	46.4	46.9
MS L1835110-03 WG2470390	29.55	45.4	46.2	46.9	46.6	47.7	48.0	46.6	47.2
MSD L1835110-03 WG2470390	29.8	45.3	46.2	46.9	46.6	47.7	48.0	46.5	47.1
DUP L1836138-02 WG2470390	29.67	45.4	46.2	46.9	46.6	47.7	48.0	46.6	47.2
L1835110-03 WG2470390	28.41	45.5	46.3	47.0	46.7	47.7	48.0	46.6	47.3
L1835110-05 WG2470390	28.71	45.4	46.3	47.0	46.7	47.7	48.0	46.6	47.2
L1835110-07 WG2470390	27.46	45.5	46.4	47.1	46.7	47.8	48.1	46.7	47.3
L1835110-09 WG2470390	28.39	45.5	46.3	47.0	46.7	47.7	48.0	46.6	47.3
L1835187-01 WG2470390	28.51	45.5	46.3	47.0	46.7	47.7	48.0	46.6	47.3
L1835187-03 WG2470390	28.82	45.4	46.3	47.0	46.7	47.7	48.0	46.6	47.2
L1835187-05 WG2470390	30.08	45.3	46.2	46.9	46.6	47.6	48.0	46.5	47.1
L1835187-06 WG2470390	30.01	45.3	46.2	46.9	46.6	47.6	48.0	46.5	47.1
L1835200-01 WG2470390	27.69	45.5	46.4	47.1	46.7	47.8	48.1	46.7	47.3
L1835200-02 WG2470390	29.08	45.4	46.3	47.0	46.6	47.7	48.0	46.6	47.2
L1835200-03 WG2470390	27.23	45.6	46.4	47.1	46.8	47.8	48.1	46.7	47.4
L1835489-01 WG2470390	32.16	45.2	46.0	46.7	46.4	47.5	47.9	46.4	46.9
L1835496-01 WG2470390	30.72	45.3	46.1	46.8	46.5	47.6	47.9	46.5	47.1
L1835679-01 WG2470390	29.76	45.3	46.2	46.9	46.6	47.7	48.0	46.6	47.1
L1835680-01 WG2470390	30.12	45.3	46.2	46.9	46.6	47.6	48.0	46.5	47.1
L1835703-01 WG2470390	26.71	45.6	46.4	47.1	46.8	47.8	48.1	46.8	47.4
L1835703-02 WG2470390	28	45.5	46.3	47.0	46.7	47.8	48.1	46.7	47.3
L1836138-01 WG2470390	29.71	45.4	46.2	46.9	46.6	47.7	48.0	46.6	47.2
L1836138-02 WG2470390	30.95	45.3	46.1	46.8	46.5	47.6	47.9	46.5	47.0
L1836138-03 WG2470390	30.77	45.3	46.1	46.8	46.5	47.6	47.9	46.5	47.1
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0

Monthly Backgrounds 03/25 for G542 Unit 3

Sample ID	Alpha	Beta	LT	Det	Analyst	Start	End	ALPHA CPM	BETA CPM
BG01	85	1657	1000	3A-1		3/1/2025 1:01	3/1/2025 17:41	0.085	1.657
BG02	92	1690	1000	3A-2		3/1/2025 1:01	3/1/2025 17:41	0.092	1.69
BG03	68	1216	1000	3A-3		3/1/2025 1:01	3/1/2025 17:41	0.068	1.216
BG04	62	1701	1000	3A-4		3/1/2025 1:01	3/1/2025 17:41	0.062	1.701
BG05	82	1053	1000	3B-1		3/1/2025 1:01	3/1/2025 17:41	0.082	1.053
BG06	64	995	1000	3B-2		3/1/2025 1:01	3/1/2025 17:41	0.064	0.995
BG07	54	921	1000	3B-3		3/1/2025 1:01	3/1/2025 17:41	0.054	0.921
BG08	94	1956	1000	3B-4		3/1/2025 1:01	3/1/2025 17:41	0.094	1.956
BG09	101	1213	1000	3C-1		3/1/2025 1:01	3/1/2025 17:41	0.101	1.213
BG10	60	1558	1000	3C-2		3/1/2025 1:01	3/1/2025 17:41	0.06	1.558
BG11	62	1398	1000	3C-3		3/1/2025 1:01	3/1/2025 17:41	0.062	1.398
BG12	88	1075	1000	3C-4		3/1/2025 1:01	3/1/2025 17:41	0.088	1.075
BG13	162	1127	1000	3D-1		3/1/2025 1:01	3/1/2025 17:41	0.162	1.127
BG14	69	971	1000	3D-2		3/1/2025 1:01	3/1/2025 17:41	0.069	0.971
BG15	86	1054	1000	3D-3		3/1/2025 1:01	3/1/2025 17:41	0.086	1.054
BG16	159	1215	1000	3D-4		3/1/2025 1:01	3/1/2025 17:41	0.159	1.215

GAS COUNTER G542 Unit: 3 MONTH: Mar-25 BETA BACKGROUND
Beta Background

1 Count Time: 100 min

DATE	3A-1		3A-2		3A-3		3A-4		3B-1		3B-2		3B-3		3B-4		3C-1		3C-2		3C-3		3C-4		3D-1		3D-2		3D-3		3D-4	
	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM
1	165.7	**1.66**	169	**1.69**	121.6	**1.22**	170.1	**1.70**	105.3	**1.05**	99.5	**1.00**	92.1	**0.92**	195.6	**1.96**	121.3	**1.21**	155.8	**1.56**	139.8	**1.40**	107.5	**1.08**	112.7	**1.13**	97.1	**0.97**	105.4	**1.05**	121.5	**1.22**
2																																
3	154	**1.54**	161	**1.61**	94	**0.94**	159	**1.59**	93	**0.93**	78	**0.78**	77	**0.77**	158	**1.58**	102	**1.02**	143	**1.43**	161	**1.61**	115	**1.15**	124	**1.24**	92	**0.92**	106	**1.06**	102	**1.02**
4	170	**1.70**	165	**1.65**	122	**1.22**	137	**1.37**	102	**1.02**	107	**1.07**	98	**0.98**	174	**1.74**	122	**1.22**	161	**1.61**	141	**1.41**	103	**1.03**	104	**1.04**	98	**0.98**	102	**1.02**	106	**1.06**
5	164	**1.64**	156	**1.56**	168	**1.68**	147	**1.47**	94	**0.94**	98	**0.98**	91	**0.91**	185	**1.85**	106	**1.06**	166	**1.66**	182	**1.82**	108	**1.08**	96	**0.96**	95	**0.95**	114	**1.14**	122	**1.22**
6	141	**1.41**	155	**1.55**	116	**1.16**	147	**1.47**	81	**0.81**	86	**0.86**	69	**0.69**	181	**1.81**	117	**1.17**	158	**1.58**	159	**1.59**	96	**0.96**	116	**1.16**	90	**0.90**	100	**1.00**	106	**1.06**
7	161	**1.61**	173	**1.73**	121	**1.21**	167	**1.67**	90	**0.90**	105	**1.05**	97	**0.97**	153	**1.53**	142	**1.42**	146	**1.46**	154	**1.54**	96	**0.96**	81	**0.81**	92	**0.92**	117	**1.17**	115	**1.15**
8																																
9																																
10	131	**1.31**	177	**1.77**	113	**1.13**	147	**1.47**	101	**1.01**	121	**1.21**	79	**0.79**	154	**1.54**	103	**1.03**	169	**1.69**	135	**1.35**	90	**0.90**	100	**1.00**	102	**1.02**	99	**0.99**	127	**1.27**
11	137	**1.37**	144	**1.44**	107	**1.07**	148	**1.48**	104	**1.04**	102	**1.02**	95	**0.95**	185	**1.85**	107	**1.07**	184	**1.84**	148	**1.48**	83	**0.83**	109	**1.09**	105	**1.05**	100	**1.00**	127	**1.27**
12	194	**1.94**	159	**1.59**	130	**1.30**	170	**1.70**	107	**1.07**	108	**1.08**	113	**1.13**	189	**1.89**	145	**1.45**	161	**1.61**	155	**1.55**	94	**0.94**	130	**1.30**	130	**1.30**	106	**1.06**	126	**1.26**
13	177	**1.77**	156	**1.56**	168	**1.68**	170	**1.70**	78	**0.78**	102	**1.02**	97	**0.97**	168	**1.68**	115	**1.15**	159	**1.59**	166	**1.66**	114	**1.14**	115	**1.15**	90	**0.90**	110	**1.10**	105	**1.05**
14	166	**1.66**	175	**1.75**	223	**2.23**	142	**1.42**	117	**1.17**	133	**1.33**	95	**0.95**	209	**2.09**	160	**1.60**	159	**1.59**	150	**1.50**	112	**1.12**	100	**1.00**	123	**1.23**	108	**1.08**	129	**1.29**
15																																
16																																
17	159	**1.59**	146	**1.46**	108	**1.08**	142	**1.42**	102	**1.02**	103	**1.03**	81	**0.81**	156	**1.56**	92	**0.92**	137	**1.37**	144	**1.44**	87	**0.87**	119	**1.19**	111	**1.11**	106	**1.06**	120	**1.20**
18	142	**1.42**	180	**1.80**	132	**1.32**	159	**1.59**	82	**0.82**	109	**1.09**	89	**0.89**	187	**1.87**	106	**1.06**	157	**1.57**	140	**1.40**	87	**0.87**	101	**1.01**	109	**1.09**	93	**0.93**	134	**1.34**
19	163	**1.63**	173	**1.73**	137	**1.37**	151	**1.51**	96	**0.96**	112	**1.12**	92	**0.92**	196	**1.96**	124	**1.24**	143	**1.43**	133	**1.33**	105	**1.05**	109	**1.09**	100	**1.00**	100	**1.00**	93	**0.93**
20	145	**1.45**	182	**1.82**	135	**1.35**	145	**1.45**	94	**0.94**	97	**0.97**	98	**0.98**	184	**1.84**	125	**1.25**	156	**1.56**	136	**1.36**	100	**1.00**	134	**1.34**	118	**1.18**	118	**1.18**	132	**1.32**
21																																
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average	**158**	**1.58**	**165**	**1.65**	**133**	**1.33**	**153**	**1.53**	**96**	**0.96**	**104**	**1.04**	**91**	**0.91**	**178**	**1.78**	**119**	**1.19**	**157**	**1.57**	**150**	**1.50**	**100**	**1.00**	**110**	**1.10**	**103**	**1.03**	**106**	**1.06**	**118**	**1.18**
std dev	17	0.17	12	0.12	32	0.32	11	0.11	11	0.11	13	0.13	11	0.11	17	0.17	18	0.18	12	0.12	14	0.14	10	0.10	14	0.14	12	0.12	7	0.07	12	0.12
UCL	**208**	**2.08**	**201**	**2.01**	**230**	**2.30**	**188**	**1.88**	**129**	**1.29**	**143**	**1.43**	**123**	**1.23**	**230**	**2.30**	**174**	**1.74**	**192**	**1.92**	**190**	**1.90**	**131**	**1.31**	**152**	**1.52**	**141**	**1.41**	**127**	**1.27**	**155**	**1.55**
UWL	**191**	**1.91**	**189**	**1.89**	**197**	**1.97**	**176**	**1.76**	**118**	**1.18**	**130**	**1.30**	**112**	**1.12**	**213**	**2.13**	**156**	**1.56**	**180**	**1.80**	**177**	**1.77**	**121**	**1.21**	**138**	**1.38**	**128**	**1.28**	**120**	**1.20**	**143**	**1.43**
LWL	**125**	**1.25**	**141**	**1.41**	**69**	**0.69**	**131**	**1.31**	**75**	**0.75**	**78**	**0.78**	**69**	**0.69**	**144**	**1.44**	**82**	**0.82**	**134**	**1.34**	**123**	**1.23**	**79**	**0.79**	**82**	**0.82**	**79**	**0.79**	**92**	**0.92**	**93**	**0.93**
LCL	**108**	**1.08**	**129**	**1.29**	**37**	**0.37**	**119**	**1.19**	**64**	**0.64**	**65**	**0.65**	**59**	**0.59**	**127**	**1.27**	**64**	**0.64**	**122**	**1.22**	**109**	**1.09**	**69**	**0.69**	**69**	**0.69**	**66**	**0.66**	**85**	**0.85**	**80**	**0.80**

Data From Previous Month

average	**164.062**	**1.641**	**164.605**	**1.646**	**145.748**	**1.457**	**150.876**	**1.509**	**95.686**	**0.957**	**94.919**	**0.949**	**94.857**	**0.949**	**173.057**	**1.731**	**112.657**	**1.127**	**151.819**	**1.518**	**142.524**	**1.425**	**102.038**	**1.020**	**102.619**	**1.026**	**100.029**	**1.000**	**107.238**	**1.072**	**112.357**	**1.124**
std dev	**14.454**	**0.145**	**14.718**	**0.147**	**41.007**	**0.410**	**15.785**	**0.158**	**10.130**	**0.101**	**14.482**	**0.145**	**9.977**	**0.100**	**17.627**	**0.176**	**11.150**	**0.111**	**16.027**	**0.160**	**13.845**	**0.138**	**11.389**	**0.114**	**11.805**	**0.118**	**13.853**	**0.139**	**14.650**	**0.146**	**13.670**	**0.137**
UCL	**207.424**	**2.074**	**208.758**	**2.088**	**268.769**	**2.688**	**198.230**	**1.982**	**126.075**	**1.261**	**138.365**	**1.384**	**124.789**	**1.248**	**225.939**	**2.259**	**146.106**	**1.461**	**199.899**	**1.999**	**184.058**	**1.841**	**136.206**	**1.362**	**138.035**	**1.380**	**141.586**	**1.416**	**151.187**	**1.512**	**153.367**	**1.534**
UWL	**192.970**	**1.930**	**194.040**	**1.940**	**227.762**	**2.278**	**182.445**	**1.824**	**115.945**	**1.159**	**123.883**	**1.239**	**114.812**	**1.148**	**208.311**	**2.083**	**134.956**	**1.350**	**183.873**	**1.839**	**170.213**	**1.702**	**124.817**	**1.248**	**126.230**	**1.262**	**127.734**	**1.277**	**136.538**	**1.365**	**139.697**	**1.397**
LWL	**135.154**	**1.352**	**135.169**	**1.352**	**63.733**	**0.637**	**119.307**	**1.193**	**75.426**	**0.754**	**65.955**	**0.660**	**74.903**	**0.749**	**137.803**	**1.378**	**90.358**	**0.904**	**119.766**	**1.198**	**114.835**	**1.148**	**79.259**	**0.793**	**79.008**	**0.790**	**72.323**	**0.723**	**77.939**	**0.779**	**85.017**	**0.850**
LCL	**120.700**	**1.207**	**120.452**	**1.205**	**22.726**	**0.227**	**103.522**	**1.035**	**65.296**	**0.653**	**51.473**	**0.515**	**64.926**	**0.649**	**120.176**	**1.202**	**79.208**	**0.792**	**103.739**	**1.037**	**100.990**	**1.010**	**67.870**	**0.679**	**67.203**	**0.672**	**58.471**	**0.585**	**63.289**	**0.633**	**71.348**	**0.713**

GAS COUNTER G542 Unit: 3 MONTH: March-25
Beta Source Check
23F05880

BETA Activity: **7861.05** **dpm** Count Time: **5** **min**

	3A-1		3A-2		3A-3		3A-4		3B-1		3B-2		3B-3		3B-4		3C-1		3C-2		3C-3		3C-4		3D-1		3D-2		3D-3		3D-4	
DATE	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF
1																																
2																																
3	17400	**44.3%**	18066	**46.0%**	17705	**45.0%**	17916	**45.6%**	18175	**46.2%**	16169	**41.1%**	17792	**45.3%**	17796	**45.3%**	16520	**42.0%**	17333	**44.1%**	18382	**46.8%**	16197	**41.2%**	18315	**46.6%**	17874	**45.5%**	18108	**46.1%**	18310	**46.6%**
4	16711	**42.5%**	18134	**46.1%**	16457	**41.9%**	17358	**44.2%**	16176	**41.2%**	18079	**46.0%**	18471	**47.0%**	17214	**43.8%**	17884	**45.5%**	18095	**46.0%**	16972	**43.2%**	18145	**46.2%**	17870	**45.5%**	18013	**45.8%**	17800	**45.3%**	16262	**41.4%**
5	17702	**45.0%**	18398	**46.8%**	16811	**42.8%**	16027	**40.8%**	18250	**46.4%**	17971	**45.7%**	16148	**41.1%**	17001	**43.3%**	16200	**41.2%**	17777	**45.2%**	17856	**45.4%**	18188	**46.3%**	18060	**45.9%**	15882	**40.4%**	16668	**42.4%**	18293	**46.5%**
6	16353	**41.6%**	18166	**46.2%**	16044	**40.8%**	17409	**44.3%**	16065	**40.9%**	17770	**45.2%**	17585	**44.7%**	17556	**44.7%**	18024	**45.9%**	16405	**41.7%**	18278	**46.5%**	17615	**44.8%**	17821	**45.3%**	17770	**45.2%**	16877	**42.9%**	17793	**45.3%**
7	17158	**43.7%**	18321	**46.6%**	16186	**41.2%**	16253	**41.4%**	18142	**46.2%**	18219	**46.4%**	18124	**46.1%**	16722	**42.5%**	18004	**45.8%**	18314	**46.6%**	16659	**42.4%**	17730	**45.1%**	16177	**41.2%**	16360	**41.6%**	17120	**43.6%**	17962	**45.7%**
8																																
9																																
10	17098	**43.5%**	18098	**46.0%**	16085	**40.9%**	18259	**46.5%**	16463	**41.9%**	17980	**45.7%**	16959	**43.1%**	17934	**45.6%**	16168	**41.1%**	18591	**47.3%**	18102	**46.1%**	18014	**45.8%**	16823	**42.8%**	16536	**42.1%**	17904	**45.6%**	17669	**45.0%**
11	16025	**40.8%**	18238	**46.4%**	15702	**39.9%**	16467	**41.9%**	17485	**44.5%**	18042	**45.9%**	17728	**45.1%**	17748	**45.2%**	17818	**45.3%**	18048	**45.9%**	16612	**42.3%**	17916	**45.6%**	17728	**45.1%**	18030	**45.9%**	15893	**40.4%**	17770	**45.2%**
12	15750	**40.1%**	16496	**42.0%**	17599	**44.8%**	16738	**42.6%**	18477	**47.0%**	17818	**45.3%**	17808	**45.3%**	17638	**44.9%**	16202	**41.2%**	18015	**45.8%**	18214	**46.3%**	18233	**46.4%**	18154	**46.2%**	16736	**42.6%**	16053	**40.8%**	16387	**41.7%**
13	17543	**44.6%**	18117	**46.1%**	17885	**45.5%**	16261	**41.4%**	17881	**45.5%**	17109	**43.5%**	18095	**46.0%**	16091	**40.9%**	18340	**46.7%**	16161	**41.1%**	18486	**47.0%**	17546	**44.6%**	17948	**45.7%**	16598	**42.2%**	17559	**44.7%**	17768	**45.2%**
14	16850	**42.9%**	18343	**46.7%**	15932	**40.5%**	18034	**45.9%**	16774	**42.7%**	17899	**45.5%**	17166	**43.7%**	17767	**45.2%**	18013	**45.8%**	17626	**44.8%**	16674	**42.4%**	18212	**46.3%**	15922	**40.5%**	18034	**45.9%**	17041	**43.4%**	16805	**42.8%**
15																																
16																																
17	17111	**43.5%**	18232	**46.4%**	17346	**44.1%**	17623	**44.8%**	18032	**45.9%**	17234	**43.8%**	16502	**42.0%**	17587	**44.7%**	17951	**45.7%**	17643	**44.9%**	18221	**46.4%**	18112	**46.1%**	16149	**41.1%**	18126	**46.1%**	15950	**40.6%**	17761	**45.2%**
18	17561	**44.7%**	18649	**47.4%**	16026	**40.8%**	17487	**44.5%**	18435	**46.9%**	16493	**42.0%**	18170	**46.2%**	17396	**44.3%**	17853	**45.4%**	16733	**42.6%**	17437	**44.4%**	17792	**45.3%**	16813	**42.8%**	18060	**45.9%**	15951	**40.6%**	18316	**46.6%**
19	17473	**44.5%**	18074	**46.0%**	16306	**41.5%**	18035	**45.9%**	17961	**45.7%**	16277	**41.4%**	18105	**46.1%**	17723	**45.1%**	18667	**47.5%**	16514	**42.0%**	17028	**43.3%**	18359	**46.7%**	18184	**46.3%**	17836	**45.4%**	17921	**45.6%**	16297	**41.5%**
20	17645	**44.9%**	16607	**42.3%**	16006	**40.7%**	17692	**45.0%**	16262	**41.4%**	17812	**45.3%**	17762	**45.2%**	16726	**42.6%**	18318	**46.6%**	18462	**47.0%**	18169	**46.2%**	17798	**45.3%**	18117	**46.1%**	16787	**42.7%**	17653	**44.9%**	16668	**42.4%**
21																																
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average	**17027**	**43.3%**	**17996**	**45.8%**	**16578**	**42.2%**	**17254.2**	**43.9%**	**17469.9**	**44.4%**	**17490.9**	**44.5%**	**17601.1**	**44.8%**	**17350**	**44.1%**	**17569**	**44.7%**	**17551**	**44.7%**	**17649**	**44.9%**	**17847**	**45.4%**	**17434**	**44.4%**	**17332**	**44.1%**	**17036**	**43.3%**	**17433**	**44.4%**
std dev	619	1.57%	632	0.02	747	0.02	758	0.02	913	0.02	709	0.02	673	0.02	534	0.01	884	2.25%	802	0.02	718	0.02	536	0.01	863	2.20%	795	0.02	819	0.021	776	0.020
UCL	**18883**	**48.0%**	**19891**	**50.6%**	**18819**	**47.9%**	**19527**	**49.7%**	**20209**	**51.4%**	**19617**	**49.9%**	**19621**	**49.9%**	**18951**	**48.2%**	**20219**	**51.4%**	**19956**	**50.8%**	**19802**	**50.4%**	**19456**	**49.5%**	**20023**	**50.9%**	**19716**	**50.2%**	**19493**	**49.6%**	**19760**	**50.3%**
UWL	**18265**	**46.5%**	**19260**	**49.0%**	**18072**	**46.0%**	**18770**	**47.8%**	**19296**	**49.1%**	**18909**	**48.1%**	**18948**	**48.2%**	**18418**	**46.9%**	**19336**	**49.2%**	**19155**	**48.7%**	**19084**	**48.6%**	**18919**	**48.1%**	**19160**	**48.7%**	**18922**	**48.1%**	**18674**	**47.5%**	**18984**	**48.3%**
LWL	**15790**	**40.2%**	**16732**	**42.6%**	**15084**	**38.4%**	**15739**	**40.0%**	**15644**	**39.8%**	**16073**	**40.9%**	**16254**	**41.4%**	**16282**	**41.4%**	**15802**	**40.2%**	**15948**	**40.6%**	**16214**	**41.3%**	**16774**	**42.7%**	**15708**	**40.0%**	**15742**	**40.0%**	**15397**	**39.2%**	**15882**	**40.4%**
LCL	**15171**	**38.6%**	**16100**	**41.0%**	**14337**	**36.5%**	**14981**	**38.1%**	**14731**	**37.5%**	**15364**	**39.1%**	**15581**	**39.6%**	**15749**	**40.1%**	**14918**	**38.0%**	**15146**	**38.5%**	**15497**	**39.4%**	**16238**	**41.3%**	**14845**	**37.8%**	**14947**	**38.0%**	**14578**	**37.1%**	**15106**	**38.4%**

Data From Previous Month

average	########	**43.06%**	########	**46.09%**	########	**42.43%**	########	**44.14%**	########	**44.46%**	########	**44.02%**	########	**43.88%**	########	**43.81%**	########	**45.04%**	########	**44.65%**	########	**45.60%**	########	**44.69%**	########	**44.22%**	########	**44.08%**	########	**43.28%**	########	**43.95%**
std dev	########	**1.89%**	########	**1.47%**	########	**1.97%**	########	**1.84%**	########	**1.75%**	########	**2.23%**	########	**2.17%**	########	**1.84%**	########	**1.65%**	########	**1.89%**	########	**1.47%**	########	**1.79%**	########	**1.71%**	########	**1.69%**	########	**1.62%**	########	**1.85%**
UCL	########	**48.73%**	########	**50.51%**	########	**48.33%**	########	**49.67%**	########	**49.72%**	########	**50.70%**	########	**50.39%**	########	**49.34%**	########	**49.98%**	########	**50.31%**	########	**50.00%**	########	**50.06%**	########	**49.35%**	########	**49.15%**	########	**48.14%**	########	**49.48%**
UWL	########	**46.84%**	########	**49.04%**	########	**46.37%**	########	**47.82%**	########	**47.96%**	########	**48.48%**	########	**48.22%**	########	**47.50%**	########	**48.34%**	########	**48.42%**	########	**48.53%**	########	**48.27%**	########	**47.64%**	########	**47.46%**	########	**46.52%**	########	**47.64%**
LWL	########	**39.27%**	########	**43.14%**	########	**38.50%**	########	**40.46%**	########	**40.95%**	########	**39.57%**	########	**39.55%**	########	**40.13%**	########	**41.75%**	########	**40.88%**	########	**42.67%**	########	**41.12%**	########	**40.79%**	########	**40.71%**	########	**40.04%**	########	**40.26%**
LCL	########	**37.38%**	########	**41.66%**	########	**36.53%**	########	**38.61%**	########	**39.19%**	########	**37.34%**	########	**37.38%**	########	**38.29%**	########	**40.10%**	########	**38.99%**	########	**41.20%**	########	**39.33%**	########	**39.08%**	########	**39.02%**	########	**38.42%**	########	**38.41%**

Monthly Backgrounds 03/01/25 for G542 Unit 4

Sample ID	Alpha	Beta	LT	Det Analyst	Start	End	ALPHA CPM	BETA CPM
BK01	175	1148	1000	4A-1	2/28/2025 23:15	3/1/2025 15:55	0.175	1.148
BK02	129	1877	1000	4A-2	2/28/2025 23:15	3/1/2025 15:55	0.129	1.877
BK03	58	1470	1000	4A-3	2/28/2025 23:15	3/1/2025 15:55	0.058	1.47
BK04	46	1757	1000	4A-4	2/28/2025 23:15	3/1/2025 15:55	0.046	1.757
BK05	140	1973	1000	4B-1	2/28/2025 23:15	3/1/2025 15:55	0.14	1.973
BK06	74	1795	1000	4B-2	2/28/2025 23:15	3/1/2025 15:55	0.074	1.795
BK07	156	1747	1000	4B-3	2/28/2025 23:15	3/1/2025 15:55	0.156	1.747
BK08	78	2138	1000	4B-4	2/28/2025 23:15	3/1/2025 15:55	0.078	2.138
BK09	97	1915	1000	4C-1	2/28/2025 23:15	3/1/2025 15:55	0.097	1.915
BK10	169	1578	1000	4C-2	2/28/2025 23:15	3/1/2025 15:55	0.169	1.578
BK11	133	1631	1000	4C-3	2/28/2025 23:15	3/1/2025 15:55	0.133	1.631
BK12	43	1367	1000	4C-4	2/28/2025 23:15	3/1/2025 15:55	0.043	1.367
BK13	91	954	1000	4D-1	2/28/2025 23:15	3/1/2025 15:55	0.091	0.954
BK14	30	885	1000	4D-2	2/28/2025 23:15	3/1/2025 15:55	0.03	0.885
BK15	32	854	1000	4D-3	2/28/2025 23:15	3/1/2025 15:55	0.032	0.854
BK16	33	889	1000	4D-4	2/28/2025 23:15	3/1/2025 15:55	0.033	0.889

GAS COUNTER G542 Unit: 4 MONTH: Mar-25 BETA BACKGROUND
Beta Background

1 Count Time: 100 min

	4A-1		4A-2		4A-3		4A-4		4B-1		4B-2		4B-3		4B-4		4C-1		4C-2		4C-3		4C-4		4D-1		4D-2		4D-3		4D-4	
DATE	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM
1	114.8	**1.15**	187.7	**1.88**	147	**1.47**	175.7	**1.76**	197.3	**1.97**	179.5	**1.80**	174.7	**1.75**	213.8	**2.14**	191.5	**1.92**	157.8	**1.58**	163.1	**1.63**	136.7	**1.37**	95.4	**0.95**	88.5	**0.89**	85.4	**0.85**	88.9	**0.89**
2																																
3	106	**1.06**	178	**1.78**	120	**1.20**	178	**1.78**	186	**1.86**	177	**1.77**	191	**1.91**	213	**2.13**	178	**1.78**	179	**1.79**	161	**1.61**	156	**1.56**	94	**0.94**	81	**0.81**	71	**0.71**	93	**0.93**
4	98	**0.98**	201	**2.01**	140	**1.40**	157	**1.57**	183	**1.83**	170	**1.70**	186	**1.86**	213	**2.13**	219	**2.19**	169	**1.69**	161	**1.61**	136	**1.36**	89	**0.89**	125	**1.25**	87	**0.87**	77	**0.77**
5	121	**1.21**	210	**2.10**	155	**1.55**	182	**1.82**	208	**2.08**	173	**1.73**	191	**1.91**	224	**2.24**	211	**2.11**	177	**1.77**	169	**1.69**	166	**1.66**	93	**0.93**	95	**0.95**	108	**1.08**	87	**0.87**
6	121	**1.21**	163	**1.63**	133	**1.33**	170	**1.70**	185	**1.85**	163	**1.63**	197	**1.97**	188	**1.88**	192	**1.92**	174	**1.74**	182	**1.82**	132	**1.32**	106	**1.06**	80	**0.80**	87	**0.87**	95	**0.95**
7	137	**1.37**	179	**1.79**	138	**1.38**	174	**1.74**	200	**2.00**	198	**1.98**	190	**1.90**	232	**2.32**	195	**1.95**	184	**1.84**	151	**1.51**	156	**1.56**	124	**1.24**	102	**1.02**	93	**0.93**	91	**0.91**
8																																
9																																
10	98	**0.98**	186	**1.86**	132	**1.32**	197	**1.97**	163	**1.63**	172	**1.72**	171	**1.71**	220	**2.20**	196	**1.96**	177	**1.77**	174	**1.74**	107	**1.07**	109	**1.09**	86	**0.86**	73	**0.73**	87	**0.87**
11	131	**1.31**	185	**1.85**	146	**1.46**	156	**1.56**	177	**1.77**	165	**1.65**	194	**1.94**	225	**2.25**	200	**2.00**	166	**1.66**	178	**1.78**	156	**1.56**	123	**1.23**	102	**1.02**	96	**0.96**	86	**0.86**
12	117	**1.17**	177	**1.77**	128	**1.28**	162	**1.62**	182	**1.82**	194	**1.94**	203	**2.03**	183	**1.83**	203	**2.03**	166	**1.66**	169	**1.69**	165	**1.65**	126	**1.26**	103	**1.03**	116	**1.16**	103	**1.03**
13	132	**1.32**	213	**2.13**	121	**1.21**	197	**1.97**	180	**1.80**	207	**2.07**	186	**1.86**	206	**2.06**	209	**2.09**	203	**2.03**	157	**1.57**	136	**1.36**	112	**1.12**	93	**0.93**	89	**0.89**	99	**0.99**
14	145	**1.45**	198	**1.98**	173	**1.73**	168	**1.68**	202	**2.02**	186	**1.86**	192	**1.92**	228	**2.28**	213	**2.13**	189	**1.89**	164	**1.64**	150	**1.50**	113	**1.13**	96	**0.96**	101	**1.01**	109	**1.09**
15																																
16																																
17	111	**1.11**	190	**1.90**	133	**1.33**	172	**1.72**	173	**1.73**	200	**2.00**	175	**1.75**	208	**2.08**	176	**1.76**	184	**1.84**	156	**1.56**	141	**1.41**	97	**0.97**	111	**1.11**	100	**1.00**	95	**0.95**
18	122	**1.22**	172	**1.72**	133	**1.33**	182	**1.82**	179	**1.79**	185	**1.85**	179	**1.79**	189	**1.89**	178	**1.78**	183	**1.83**	184	**1.84**	156	**1.56**	115	**1.15**	82	**0.82**	79	**0.79**	91	**0.91**
19	126	**1.26**	167	**1.67**	145	**1.45**	159	**1.59**	183	**1.83**	163	**1.63**	186	**1.86**	186	**1.86**	236	**2.36**	169	**1.69**	154	**1.54**	149	**1.49**	98	**0.98**	97	**0.97**	74	**0.74**	109	**1.09**
20	135	**1.35**	179	**1.79**	158	**1.58**	179	**1.79**	200	**2.00**	168	**1.68**	168	**1.68**	189	**1.89**	194	**1.94**	173	**1.73**	176	**1.76**	161	**1.61**	114	**1.14**	84	**0.84**	105	**1.05**	99	**0.99**
21																																
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30																																
31																																
average	**121**	1.21	**186**	1.86	**140**	1.40	**174**	1.74	**187**	1.87	**180**	1.80	**186**	1.86	**208**	2.08	**199**	1.99	**177**	1.77	**167**	1.67	**147**	1.47	**107**	1.07	**95**	0.95	**91**	0.91	**94**	0.94
std dev	14	0.14	15	0.15	14	0.14	13	0.13	12	0.12	14	0.14	10	0.10	17	0.17	16	0.16	11	0.11	10	0.10	16	0.16	12	0.12	12	0.12	13	0.13	9	0.09
UCL	**163**	1.63	**230**	2.30	**183**	1.83	**212**	2.12	**224**	2.24	**223**	2.23	**216**	2.16	**258**	2.58	**249**	2.49	**210**	2.10	**198**	1.98	**194**	1.94	**144**	1.44	**132**	1.32	**131**	1.31	**120**	1.20
UWL	**149**	1.49	**215**	2.15	**169**	1.69	**199**	1.99	**211**	2.11	**209**	2.09	**206**	2.06	**242**	2.42	**232**	2.32	**199**	1.99	**187**	1.87	**178**	1.78	**132**	1.32	**120**	1.20	**118**	1.18	**112**	1.12
LWL	**93**	0.93	**156**	1.56	**112**	1.12	**148**	1.48	**162**	1.62	**151**	1.51	**165**	1.65	**174**	1.74	**167**	1.67	**155**	1.55	**146**	1.46	**116**	1.16	**83**	0.83	**70**	0.70	**64**	0.64	**76**	0.76
LCL	**79**	0.79	**142**	1.42	**97**	0.97	**136**	1.36	**149**	1.49	**137**	1.37	**155**	1.55	**157**	1.57	**150**	1.50	**143**	1.43	**135**	1.35	**100**	1.00	**71**	0.71	**58**	0.58	**51**	0.51	**68**	0.68

Data From Previous Month

average	**121**	**1.212**	**176**	**1.760**	**139**	**1.390**	**167**	**1.665**	**191**	**1.911**	**170**	**1.696**	**182**	**1.818**	**207**	**2.071**	**196**	**1.955**	**169**	**1.689**	**161**	**1.611**	**140**	**1.397**	**100**	**1.004**	**96**	**0.956**	**92**	**0.917**	**92**	**0.918**
std dev	**11**	**0.112**	**15**	**0.151**	**12**	**0.124**	**16**	**0.155**	**16**	**0.157**	**14**	**0.135**	**18**	**0.179**	**16**	**0.165**	**17**	**0.173**	**13**	**0.128**	**12**	**0.123**	**12**	**0.122**	**15**	**0.152**	**13**	**0.132**	**15**	**0.149**	**12**	**0.116**
UCL	**155**	**1.549**	**221**	**2.212**	**176**	**1.763**	**213**	**2.131**	**238**	**2.382**	**210**	**2.102**	**236**	**2.356**	**257**	**2.565**	**247**	**2.473**	**207**	**2.072**	**198**	**1.979**	**176**	**1.764**	**146**	**1.462**	**135**	**1.352**	**136**	**1.364**	**127**	**1.266**
UWL	**144**	**1.437**	**206**	**2.061**	**164**	**1.638**	**198**	**1.976**	**223**	**2.225**	**197**	**1.967**	**218**	**2.176**	**240**	**2.401**	**230**	**2.301**	**194**	**1.944**	**186**	**1.856**	**164**	**1.642**	**131**	**1.309**	**122**	**1.220**	**122**	**1.215**	**115**	**1.150**
LWL	**99**	**0.988**	**146**	**1.458**	**114**	**1.142**	**135**	**1.354**	**160**	**1.597**	**143**	**1.425**	**146**	**1.460**	**174**	**1.741**	**161**	**1.610**	**143**	**1.433**	**137**	**1.366**	**115**	**1.152**	**70**	**0.699**	**69**	**0.692**	**62**	**0.619**	**69**	**0.687**
LCL	**88**	**0.876**	**131**	**1.307**	**102**	**1.017**	**120**	**1.199**	**144**	**1.440**	**129**	**1.290**	**128**	**1.281**	**158**	**1.576**	**144**	**1.437**	**130**	**1.305**	**124**	**1.244**	**103**	**1.029**	**55**	**0.547**	**56**	**0.560**	**47**	**0.470**	**57**	**0.571**

GAS COUNTER G542 Unit: 4 MONTH: March-25
Beta Source Check
23F05880

BETA Activity: **7861.05** **dpm** Count Time: **5** **min**

	4A-1		4A-2		4A-3		4A-4		4B-1		4B-2		4B-3		4B-4		4C-1		4C-2		4C-3		4C-4		4D-1		4D-2		4D-3		4D-4	
DATE	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF
1																																
2																																
3	16118	**41.0%**	17790	**45.3%**	15980	**40.7%**	16945	**43.1%**	16156	**41.1%**	18079	**46.0%**	18024	**45.9%**	17471	**44.4%**	16792	**42.7%**	17356	**44.2%**	17050	**43.4%**	17348	**44.1%**	16425	**41.8%**	18115	**46.1%**	16412	**41.8%**	16868	**42.9%**
4	16239	**41.3%**	17927	**45.6%**	17361	**44.2%**	16541	**42.1%**	17511	**44.6%**	18213	**46.3%**	18026	**45.9%**	17211	**43.8%**	16899	**43.0%**	16864	**42.9%**	15979	**40.7%**	17652	**44.9%**	17523	**44.6%**	17117	**43.5%**	17851	**45.4%**	17828	**45.4%**
5	16276	**41.4%**	17371	**44.2%**	17489	**44.5%**	18321	**46.6%**	16849	**42.9%**	16500	**42.0%**	18316	**46.6%**	17902	**45.5%**	15853	**40.3%**	17447	**44.4%**	17851	**45.4%**	17761	**45.2%**	17239	**43.9%**	18213	**46.3%**	16151	**41.1%**	17462	**44.4%**
6	16009	**40.7%**	16597	**42.2%**	17519	**44.6%**	16390	**41.7%**	16125	**41.0%**	18384	**46.8%**	18504	**47.1%**	17834	**45.4%**	16382	**41.7%**	17125	**43.6%**	17446	**44.4%**	17691	**45.0%**	17934	**45.6%**	18211	**46.3%**	16255	**41.4%**	17391	**44.2%**
7	17441	**44.4%**	18153	**46.2%**	16185	**41.2%**	18539	**47.2%**	16458	**41.9%**	18387	**46.8%**	18133	**46.1%**	17672	**45.0%**	15432	**39.3%**	17180	**43.7%**	15745	**40.1%**	17559	**44.7%**	16114	**41.0%**	17910	**45.6%**	17738	**45.1%**	17791	**45.3%**
8																																
9																																
10	17457	**44.4%**	15856	**40.3%**	17593	**44.8%**	18328	**46.6%**	17939	**45.6%**	17768	**45.2%**	16777	**42.7%**	17109	**43.5%**	16324	**41.5%**	16913	**43.0%**	15674	**39.9%**	18048	**45.9%**	16022	**40.8%**	17123	**43.6%**	17474	**44.5%**	17930	**45.6%**
11	17418	**44.3%**	17351	**44.1%**	17418	**44.3%**	17703	**45.0%**	17798	**45.3%**	18058	**45.9%**	16378	**41.7%**	18144	**46.2%**	16514	**42.0%**	17194	**43.7%**	17270	**43.9%**	17576	**44.7%**	15983	**40.7%**	16094	**40.9%**	16610	**42.3%**	17317	**44.1%**
12	17221	**43.8%**	17910	**45.6%**	15701	**39.9%**	18433	**46.9%**	17378	**44.2%**	17802	**45.3%**	18569	**47.2%**	17624	**44.8%**	15763	**40.1%**	15674	**39.9%**	15988	**40.7%**	18067	**46.0%**	17265	**43.9%**	16310	**41.5%**	18178	**46.2%**	17895	**45.5%**
13	17647	**44.9%**	17579	**44.7%**	17378	**44.2%**	16308	**41.5%**	17264	**43.9%**	16469	**41.9%**	17845	**45.4%**	17037	**43.3%**	16794	**42.7%**	15765	**40.1%**	17508	**44.5%**	17926	**45.6%**	17635	**44.9%**	17927	**45.6%**	17976	**45.7%**	16244	**41.3%**
14	17668	**45.0%**	17673	**45.0%**	17310	**44.0%**	16501	**42.0%**	17887	**45.5%**	18417	**46.9%**	16491	**42.0%**	17906	**45.6%**	15366	**39.1%**	15748	**40.1%**	17538	**44.6%**	17551	**44.7%**	17681	**45.0%**	16693	**42.5%**	17913	**45.6%**	17489	**44.5%**
15																																
16																																
17	15928	**40.5%**	16544	**42.1%**	16148	**41.1%**	18223	**46.4%**	17593	**44.8%**	17765	**45.2%**	17816	**45.3%**	17784	**45.2%**	16603	**42.2%**	15660	**39.8%**	17653	**44.9%**	17290	**44.0%**	17347	**44.1%**	16319	**41.5%**	16042	**40.8%**	17081	**43.5%**
18	17253	**43.9%**	15736	**40.0%**	15718	**40.0%**	17789	**45.3%**	18027	**45.9%**	16419	**41.8%**	17259	**43.9%**	17366	**44.2%**	17171	**43.7%**	16951	**43.1%**	17666	**44.9%**	17581	**44.7%**	16202	**41.2%**	18323	**46.6%**	17676	**45.0%**	16041	**40.8%**
19	17687	**45.0%**	16418	**41.8%**	15980	**40.7%**	16550	**42.1%**	17490	**44.5%**	17963	**45.7%**	17669	**45.0%**	18212	**46.3%**	17118	**43.6%**	17009	**43.3%**	15612	**39.7%**	17743	**45.1%**	17293	**44.0%**	18267	**46.5%**	17762	**45.2%**	17748	**45.2%**
20	15825	**40.3%**	17499	**44.5%**	16102	**41.0%**	18057	**45.9%**	17678	**45.0%**	18453	**46.9%**	18020	**45.8%**	18131	**46.1%**	15169	**38.6%**	16220	**41.3%**	17386	**44.2%**	17157	**43.7%**	16946	**43.1%**	17974	**45.7%**	17730	**45.1%**	18083	**46.0%**
21																																
22																																
23																																
24																																
25																																
26																																
27																																
28																																
29																																
30																																
31																																
average	**16871**	**42.9%**	**17172**	**43.7%**	**16706**	**42.5%**	**17473.4**	**44.5%**	**17296.6**	**44.0%**	**17762.6**	**45.2%**	**17701.9**	**45.0%**	**17672**	**45.0%**	**16299**	**41.5%**	**16650**	**42.4%**	**16883**	**43.0%**	**17639**	**44.9%**	**16972**	**43.2%**	**17471**	**44.4%**	**17269**	**43.9%**	**17369**	**44.2%**
std dev	743	1.89%	791	0.02	775	0.02	879	0.02	647	0.02	743	0.02	711	0.02	386	0.01	669	1.70%	679	0.02	864	0.02	266	0.01	684	1.74%	830	0.02	780	0.020	622	0.016
UCL	**19101**	**48.6%**	**19546**	**49.7%**	**19030**	**48.4%**	**20110**	**51.2%**	**19239**	**48.9%**	**19993**	**50.9%**	**19835**	**50.5%**	**18831**	**47.9%**	**18304**	**46.6%**	**18686**	**47.5%**	**19475**	**49.5%**	**18438**	**46.9%**	**19024**	**48.4%**	**19960**	**50.8%**	**19610**	**49.9%**	**19234**	**48.9%**
UWL	**18357**	**46.7%**	**18754**	**47.7%**	**18255**	**46.4%**	**19231**	**48.9%**	**18591**	**47.3%**	**19250**	**49.0%**	**19124**	**48.7%**	**18444**	**46.9%**	**17636**	**44.9%**	**18007**	**45.8%**	**18611**	**47.3%**	**18172**	**46.2%**	**18340**	**46.7%**	**19131**	**48.7%**	**18830**	**47.9%**	**18612**	**47.4%**
LWL	**15384**	**39.1%**	**15589**	**39.7%**	**15157**	**38.6%**	**15716**	**40.0%**	**16002**	**40.7%**	**16276**	**41.4%**	**16280**	**41.4%**	**16899**	**43.0%**	**14961**	**38.1%**	**15293**	**38.9%**	**15156**	**38.6%**	**17107**	**43.5%**	**15604**	**39.7%**	**15812**	**40.2%**	**15709**	**40.0%**	**16126**	**41.0%**
LCL	**14640**	**37.2%**	**14798**	**37.6%**	**14382**	**36.6%**	**14837**	**37.7%**	**15355**	**39.1%**	**15532**	**39.5%**	**15569**	**39.6%**	**16513**	**42.0%**	**14293**	**36.4%**	**14615**	**37.2%**	**14292**	**36.4%**	**16840**	**42.8%**	**14920**	**38.0%**	**14982**	**38.1%**	**14928**	**38.0%**	**15504**	**39.4%**

Data From Previous Month

average	**16832**	**42.74%**	**17313**	**43.96%**	**17196**	**43.67%**	**17610**	**44.72%**	**17356**	**44.08%**	**17633**	**44.78%**	**17473**	**44.37%**	**17523**	**44.50%**	**16578**	**42.10%**	**16676**	**42.35%**	**16847**	**42.78%**	**17726**	**45.01%**	**17166**	**43.59%**	**17425**	**44.25%**	**17333**	**44.02%**	**17428**	**44.26%**
std dev	**804**	**2.04%**	**552**	**1.40%**	**490**	**1.24%**	**773**	**1.96%**	**667**	**1.69%**	**831**	**2.11%**	**860**	**2.18%**	**685**	**1.74%**	**604**	**1.53%**	**826**	**2.10%**	**792**	**2.01%**	**668**	**1.70%**	**670**	**1.70%**	**693**	**1.76%**	**787**	**2.00%**	**779**	**1.98%**
UCL	**19244**	**48.87%**	**18967**	**48.17%**	**18666**	**47.40%**	**19928**	**50.61%**	**19356**	**49.15%**	**20126**	**51.11%**	**20052**	**50.92%**	**19578**	**49.72%**	**18389**	**46.70%**	**19152**	**48.64%**	**19222**	**48.81%**	**19729**	**50.10%**	**19177**	**48.70%**	**19504**	**49.53%**	**19694**	**50.01%**	**19765**	**50.19%**
UWL	**18440**	**46.83%**	**18416**	**46.77%**	**18176**	**46.16%**	**19155**	**48.64%**	**18690**	**47.46%**	**19295**	**49.00%**	**19192**	**48.74%**	**18893**	**47.98%**	**17785**	**45.17%**	**18327**	**46.54%**	**18431**	**46.80%**	**19061**	**48.41%**	**18507**	**47.00%**	**18811**	**47.77%**	**18907**	**48.01%**	**18986**	**48.21%**
LWL	**15225**	**38.66%**	**16210**	**41.16%**	**16215**	**41.18%**	**16065**	**40.80%**	**16023**	**40.69%**	**15971**	**40.56%**	**15754**	**40.01%**	**16153**	**41.02%**	**15370**	**39.03%**	**15025**	**38.15%**	**15264**	**38.76%**	**16390**	**41.62%**	**15826**	**40.19%**	**16039**	**40.73%**	**15759**	**40.02%**	**15870**	**40.30%**
LCL	**14421**	**36.62%**	**15658**	**39.76%**	**15725**	**39.93%**	**15293**	**38.83%**	**15357**	**39.00%**	**15140**	**38.45%**	**14894**	**37.82%**	**15468**	**39.28%**	**14766**	**37.50%**	**14199**	**36.06%**	**14473**	**36.75%**	**15723**	**39.93%**	**15155**	**38.49%**	**15346**	**38.97%**	**14971**	**38.02%**	**15092**	**38.32%**

G542 Unit 3
Calibration 02/03/25

	High Voltage	Changed?	Chi Sq Passed?	Notes
A Drawer	1780	Y	Y	
B Drawer	1780	Y	Y	
C Drawer	1760	Y	Y	
D Drawer	1780	Y	Y	

Comments:

After initial High Voltage(HV) run, windows changed and HV rerun. HV and Chi Squared data shown is from after window change.

Collected by: _____ Date: 2/10/25

Approved by: _____ Date: 2/10/25

OOS= Detector taken Out of Service

Detector Names Unit 3:

Numerical:	Instrument:	PACE:
1	1A	3A-1
2	1B	3A-2
3	1C	3A-3
4	1D	3A-4
5	2A	3B-1
6	2B	3B-2
7	2C	3B-3
8	2D	3B-4
9	3A	3C-1
10	3B	3C-2
11	3C	3C-3
12	3D	3C-4
13	4A	3D-1
14	4B	3D-2
15	4C	3D-3
16	4D	3D-4

Standards Used: 23F04831 23F04839
23F04841 23F04832
24B19729 24B19731
24B19730 24B19732

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Sr-90
124007
ESC51613
22J11029

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	01-Jul-24
PREP:	13-Sep-22

Ao =	940.91	nCi				
N =	0.02					
T(1/2) =	28.60	years				
T =	1.85	years				
dilution =	1000.00					
A =	899.65	nCi	SR90/Y90			
A =	1997.22	dpm/ml	3994.4459	399.4446		
A =	899.65	pCi/ml	1799.3			
A =	899.65	+/-	16.207189	pCi/ml	3994.445911	
						11983.33773

Uncertainty	0.0173
Weight	0.05%
Volume (1000 ml)	0.50%

CSU 1.80%

DECAY CALCUALTION

Th230 Source
124007
ESC51614
22I13361

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 25-Aug-22
DATE OF CALIBRATION 01-Feb-25

Ao	=	1011.73	nCi	
N	=	0.00		
T(1/2)	=	77000.00	years	28105000
T	=	2.44	years	
dilution	=	1000.00		
A	=	1011.71	nCi	
A	=	2246.00	dpm/ml	22459.977
A	**=**	1011.71	pCi/ml	

Uncertainty	3.16%
Weight	0.05%
Volume	0.03%
CSU	3.16%

					pCi/l
Activity	**1011.7**	**+/-**	**32.0**	**pCi/ml**	1011711

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Sr-90
124007
ESC51613
22J11029

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	01-Jul-24
PREP:	13-Sep-22

Ao =	940.91	nCi				
N =	0.02					
T(1/2) =	28.60	years				
T =	1.85	years				
dilution =	1000.00					
A =	899.65	nCi	SR90/Y90			
A =	1997.22	dpm/ml	3994.4459	399.4446		
A =	899.65	pCi/ml	1799.3			
A =	899.65	+/-	16.207189	pCi/ml	3994.445911	
						11983.33773

Uncertainty	0.0173
Weight	0.05%
Volume (1000 ml)	0.50%

CSU 1.80%

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer A

2/3/2025

3A-1=	Det1=	1A				3A-2=	Det2=	1B				3A-3=	Det3=	1C				3A-4=	Det4=	1D			
	Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
	1500	873	872	1			1500	2043	2043	0			1500	1037	1037	0			1500	1115	1115	0	
	1520	1038	1038	0			1520	2258	2257	1			1520	1293	1293	0			1520	1318	1318	0	
	1540	1340	1340	0			1540	2588	2587	1			1540	1548	1548	0			1540	1501	1501	0	
	1560	1559	1558	1			1560	2798	2797	1			1560	1776	1775	1			1560	1818	1816	2	
	1580	1788	1788	0			1580	2992	2992	0			1580	2099	2098	1			1580	2047	2047	0	
	1600	2067	2066	1			1600	3165	3165	0			1600	2261	2261	0			1600	2160	2160	0	
	1620	2282	2281	1			1620	3233	3231	2			1620	2610	2608	2			1620	2418	2418	0	
	1640	2610	2608	2			1640	3232	3231	1			1640	2768	2767	1			1640	2656	2655	1	
	1660	2812	2811	1			1660	3342	3341	1			1660	2953	2953	0			1660	2794	2794	0	
	1680	3010	3009	1			1680	3564	3563	1			1680	3112	3112	0			1680	2989	2988	1	
	1700	3244	3244	0			1700	3312	3312	0			1700	3235	3234	1			1700	3037	3036	1	
	1720	3265	3264	1			1720	3451	3448	3			1720	3367	3367	0			1720	3135	3133	2	
	1740	3348	3346	2			1740	3533	3531	2			1740	3502	3498	4			1740	3215	3211	4	
	1760	3369	3369	0	0.00%		1760	3514	3501	13	0.37%		1760	3581	3579	2	0.06%		1760	3102	3100	2	0.06%
	1780	3492	3491	1	0.03%		1780	3500	3482	18	0.52%		1780	3447	3445	2	0.06%		1780	3294	3293	1	0.03%
	1800	3513	3507	6	0.17%		1800	3547	3488	59	1.69%		1800	3579	3560	19	0.53%		1800	3314	3313	1	0.03%
	1820	3427	3417	10			1820	3528	3439	89			1820	3601	3570	31			1820	3340	3339	1	
	1840	3469	3459	10			1840	3564	3479	85			1840	3505	3480	25			1840	3268	3268	0	
	1860	3553	3546	7			1860	3561	3487	74			1860	3498	3478	20			1860	3295	3291	4	
	1880	3583	3576	7			1880	3627	3533	94			1880	3614	3595	19			1880	3368	3368	0	
	1900	3452	3442	10			1900	3590	3499	91			1900	3566	3544	22			1900	3260	3254	6	
	1920	3479	3469	10			1920	3558	3476	82			1920	3483	3462	21			1920	3169	3167	2	
	1940	3493	3487	6			1940	3509	3435	74			1940	3694	3671	23			1940	3368	3366	2	
	1960	3584	3576	8			1960	3465	3394	71			1960	3583	3563	20			1960	3341	3338	3	
	1980	3471	3458	13			1980	3477	3394	83			1980	3561	3543	18			1980	3277	3274	3	
	2000	3584	3575	9			2000	3497	3425	72			2000	3604	3575	29			2000	3307	3304	3	
	1740	7.80%	263				1740	5.09%	176				1740	9.46%	326				1740	8.71%	277		
Slope Calc:	1760	4.50%	153				1760	0.26%	9				1760	5.79%	203				1760	6.37%	206		
	1780	3.29%	113				1780	1.49%	52				1780	0.51%	18				1780	1.75%	57		
	1800	5.11%	177				1800	0.40%	14				1800	2.87%	101				1800	5.85%	191		

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer B

2/3/2025

3B-1=	Det5=	2A				3B-2=	Det6=	2B				3B-3=	Det7=	2C				3B-4=	Det8=	2D			
	Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
	1500	1694	1693	1			1500	1556	1556	0			1500	1880	1880	0			1500	1353	1353	0	
	1520	1907	1907	0			1520	1748	1748	0			1520	2172	2172	0			1520	1608	1608	0	
	1540	2148	2147	1			1540	2121	2121	0			1540	2501	2501	0			1540	1823	1821	2	
	1560	2514	2513	1			1560	2269	2269	0			1560	2740	2739	1			1560	2099	2098	1	
	1580	2720	2720	0			1580	2616	2615	1			1580	2867	2867	0			1580	2441	2441	0	
	1600	2985	2984	1			1600	2751	2751	0			1600	3012	3012	0			1600	2473	2472	1	
	1620	3162	3161	1			1620	3019	3019	0			1620	3238	3236	2			1620	2689	2688	1	
	1640	3251	3249	2			1640	2966	2965	1			1640	3322	3321	1			1640	2933	2932	1	
	1660	3399	3398	1			1660	3061	3061	0			1660	3405	3404	1			1660	2993	2992	1	
	1680	3480	3480	0			1680	3257	3255	2			1680	3424	3422	2			1680	3141	3141	0	
	1700	3507	3505	2			1700	3299	3298	1			1700	3526	3526	0			1700	3103	3103	0	
	1720	3721	3719	2			1720	3285	3284	1			1720	3508	3507	1			1720	3142	3141	1	
	1740	3637	3636	1			1740	3386	3385	1			1740	3557	3552	5			1740	3174	3172	2	
	1760	3719	3704	15	0.42%		1760	3425	3424	1	0.03%		1760	3530	3525	5	0.14%		1760	3243	3241	2	0.06%
	1780	3643	3613	30	0.83%		1780	3475	3472	3	0.09%		1780	3598	3583	15	0.42%		1780	3348	3339	9	0.27%
	1800	3672	3613	59			1800	3416	3397	19			1800	3685	3635	50			1800	3206	3187	19	
	1820	3697	3619	78			1820	3460	3439	21			1820	3753	3697	56			1820	3385	3365	20	
	1840	3801	3719	82			1840	3367	3357	10			1840	3606	3552	54			1840	3282	3253	29	
	1860	3752	3686	66			1860	3472	3454	18			1860	3744	3697	47			1860	3288	3255	33	
	1880	3804	3701	103			1880	3548	3532	16			1880	3722	3669	52			1880	3238	3222	16	
	1900	3737	3666	71			1900	3488	3466	22			1900	3705	3651	54			1900	3263	3239	24	
	1920	3849	3766	83			1920	3436	3420	16			1920	3691	3646	45			1920	3252	3228	24	
	1940	3700	3622	78			1940	3553	3540	13			1940	3710	3655	55			1940	3277	3248	29	
	1960	3805	3731	74			1960	3368	3353	15			1960	3708	3656	52			1960	3406	3386	20	
	1980	3821	3740	81			1980	3495	3471	24			1980	3724	3675	49			1980	3287	3260	27	
	2000	3798	3716	82			2000	3415	3397	18			2000	3757	3696	61			2000	3213	3193	20	
Slope Calc:	1760	2.27%	83				1760	4.56%	155				1760	5.30%	190				1760	6.91%	224		
	1780	0.49%	18				1780	0.82%	28				1780	0.00%	0				1780	2.49%	81		
	1800	2.41%	88				1800	0.88%	30				1800	4.76%	172				1800	0.43%	14		
	1820	1.45%	53				1820	1.74%	60				1820	2.36%	86				1820	3.58%	117		

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer C

2/3/2025

3C-1= Det9= 3A

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1721	1720	1	
1520	2063	2063	0	
1540	2349	2349	0	
1560	2662	2661	1	
1580	2835	2835	0	
1600	3055	3054	1	
1620	3243	3243	0	
1640	3320	3319	1	
1660	3529	3529	0	
1680	3460	3459	1	
1700	3586	3584	2	
1720	3712	3708	4	
1740	3677	3677	0	
1760	3616	3609	7	0.19%
1780	3809	3788	21	0.55%
1800	3798	3758	40	1.06%
1820	3814	3750	64	
1840	3632	3571	61	
1860	3859	3796	63	
1880	3712	3669	43	
1900	3596	3552	44	
1920	3707	3663	44	
1940	3688	3638	50	
1960	3771	3718	53	
1980	3766	3721	45	
2000	3670	3633	37	1.02%

Slope Calc:

1740	4.49%	166	
1760	3.71%	137	
1780	3.21%	119	
1800	1.62%	60	
1820	6.38%	236	
1840	2.58%	95	

3C-2= Det10= 3B

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1566	1565	1	
1520	1866	1865	1	
1540	2101	2101	0	
1560	2425	2425	0	
1580	2651	2649	2	
1600	2709	2707	2	
1620	2958	2958	0	
1640	3114	3112	2	
1660	3216	3216	0	
1680	3251	3251	0	
1700	3243	3242	1	
1720	3433	3432	1	
1740	3481	3480	1	
1760	3317	3310	7	0.21%
1780	3339	3318	21	0.63%
1800	3498	3448	50	1.45%
1820	3490	3431	59	1.72%
1840	3488	3435	53	
1860	3572	3503	69	
1880	3485	3412	73	
1900	3488	3444	44	
1920	3413	3352	61	
1940	3393	3339	54	
1960	3501	3443	58	
1980	3392	3336	56	
2000	3471	3418	53	

1740	5.59%	189	
1760	0.09%	3	
1780	0.67%	23	
1800	2.99%	102	
1820	3.68%	126	
1840	2.80%	96	

3C-3= Det11= 3C

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1943	1942	1	
1520	2322	2322	0	
1540	2596	2596	0	
1560	2881	2879	2	
1580	3123	3121	2	
1600	3154	3153	1	
1620	3375	3375	0	
1640	3337	3334	3	
1660	3515	3514	1	
1680	3571	3570	1	
1700	3559	3558	1	
1720	3495	3493	2	
1740	3624	3621	3	
1760	3664	3649	15	0.41%
1780	3633	3606	27	0.75%
1800	3769	3706	63	1.70%
1820	3773	3701	72	1.95%
1840	3633	3551	82	
1860	3673	3599	74	
1880	3615	3534	81	
1900	3596	3527	69	
1920	3633	3567	66	
1940	3665	3582	83	
1960	3748	3678	70	
1980	3680	3597	83	
2000	3753	3665	88	

1740	3.95%	143	
1760	1.60%	58	
1780	0.61%	22	
1800	3.18%	115	
1820	2.19%	79	
1840	3.86%	139	

3C-4= Det12= 3D

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1405	1405	0	
1520	1737	1737	0	
1540	2027	2027	0	
1560	2352	2350	2	
1580	2489	2485	4	
1600	2667	2667	0	
1620	2896	2894	2	
1640	3066	3064	2	
1660	3148	3146	2	
1680	3135	3134	1	
1700	3289	3288	1	
1720	3226	3224	2	
1740	3228	3224	4	
1760	3281	3273	8	0.24%
1780	3292	3274	18	0.55%
1800	3351	3303	48	1.45%
1820	3246	3176	70	2.20%
1840	3420	3340	80	
1860	3445	3362	83	
1880	3342	3268	74	
1900	3337	3256	81	
1920	3366	3302	64	
1940	3282	3205	77	
1960	3308	3249	59	
1980	3376	3288	88	
2000	3446	3376	70	

1740	3.44%	112	
1760	3.56%	116	
1780	4.21%	138	
1800	0.15%	5	
1820	0.55%	18	
1840	0.03%	1	

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer D

2/3/2025

3D-1= Det13= 4A

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1473	1473	0	
1520	1740	1740	0	
1540	2173	2172	1	
1560	2323	2323	0	
1580	2748	2747	1	
1600	2856	2855	1	
1620	2997	2997	0	
1640	3197	3197	0	
1660	3447	3446	1	
1680	3605	3605	0	
1700	3502	3502	0	
1720	3604	3601	3	
1740	3608	3607	1	
1760	3727	3725	2	0.05%
1780	3697	3690	7	0.19%
1800	3759	3737	22	0.59%
1820	3677	3657	20	
1840	3605	3580	25	
1860	3765	3741	24	
1880	3790	3765	25	
1900	3760	3740	20	
1920	3750	3721	29	
1940	3756	3727	29	
1960	3772	3755	17	
1980	3845	3832	13	
2000	3782	3752	30	

1740	6.4%	235
1760	1.5%	56
1780	0.7%	27
1800	0.4%	16
1820	2.0%	75

3D-2= Det14= 4B

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1503	1503	0	
1520	1876	1876	0	
1540	2016	2015	1	
1560	2215	2215	0	
1580	2559	2559	0	
1600	2711	2709	2	
1620	2877	2875	2	
1640	3042	3042	0	
1660	3188	3188	0	
1680	3233	3232	1	
1700	3344	3344	0	
1720	3269	3268	1	
1740	3427	3425	2	
1760	3350	3344	6	0.18%
1780	3469	3456	13	0.38%
1800	3461	3421	40	1.17%
1820	3502	3456	46	
1840	3440	3395	45	
1860	3436	3378	58	
1880	3448	3396	52	
1900	3538	3490	48	
1920	3422	3384	38	
1940	3530	3479	51	
1960	3445	3389	56	
1980	3432	3375	57	
2000	3502	3452	50	

1740	2.3%	77
1760	5.5%	188
1780	0.9%	30
1800	1.0%	34
1820	1.8%	60

3D-3= Det15= 4C

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1452	1452	0	
1520	1673	1672	1	
1540	1902	1902	0	
1560	2293	2292	1	
1580	2446	2445	1	
1600	2606	2606	0	
1620	2848	2848	0	
1640	3084	3083	1	
1660	3206	3204	2	
1680	3387	3387	0	
1700	3325	3324	1	
1720	3304	3303	1	
1740	3509	3509	0	
1760	3536	3534	2	0.06%
1780	3518	3510	8	0.23%
1800	3509	3483	26	0.75%
1820	3507	3481	26	
1840	3552	3528	24	
1860	3718	3692	26	
1880	3681	3650	31	
1900	3554	3525	29	
1920	3527	3497	30	
1940	3512	3488	24	
1960	3591	3568	23	
1980	3581	3554	27	
2000	3614	3586	28	

1740	4.6%	159
1760	5.1%	178
1780	0.5%	19
1800	4.4%	158
1820	3.9%	140

3D-4= Det16= 4D

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1309	1309	0	
1520	1630	1629	1	
1540	1832	1829	3	
1560	2042	2042	0	
1580	2471	2469	2	
1600	2558	2558	0	
1620	2679	2677	2	
1640	2907	2906	1	
1660	2965	2964	1	
1680	3149	3146	3	
1700	3070	3069	1	
1720	3199	3198	1	
1740	3258	3256	2	
1760	3284	3281	3	0.09%
1780	3266	3256	10	0.31%
1800	3256	3222	34	1.06%
1820	3320	3273	47	
1840	3365	3320	45	
1860	3443	3381	62	
1880	3350	3299	51	
1900	3318	3269	49	
1920	3305	3257	48	
1940	3379	3330	49	
1960	3316	3266	50	
1980	3366	3318	48	
2000	3348	3305	43	

1740	4.7%	153
1760	2.3%	75
1780	1.9%	64
1800	3.0%	100
1820	1.3%	43

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 22:31
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	873	872	1
1520	1038	1038	0
1540	1340	1340	0
1560	1559	1558	1
1580	1788	1788	0
1600	2067	2066	1
1620	2282	2281	1
1640	2610	2608	2
1660	2812	2811	1
1680	3010	3009	1
1700	3244	3244	0
1720	3265	3264	1
1740	3348	3346	2
1760	3369	3369	0
1780	3492	3491	1
1800	3513	3507	6
1820	3427	3417	10
1840	3469	3459	10
1860	3553	3546	7
1880	3583	3576	7
1900	3452	3442	10
1920	3479	3469	10
1940	3493	3487	6
1960	3584	3576	8
1980	3471	3458	13
2000	3584	3575	9

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 17:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2043	2043	0
1520	2258	2257	1
1540	2588	2587	1
1560	2798	2797	1
1580	2992	2992	0
1600	3165	3165	0
1620	3233	3231	2
1640	3232	3231	1
1660	3342	3341	1
1680	3564	3563	1
1700	3312	3312	0
1720	3451	3448	3
1740	3533	3531	2
1760	3514	3501	13
1780	3500	3482	18
1800	3547	3488	59
1820	3528	3439	89
1840	3564	3479	85
1860	3561	3487	74
1880	3627	3533	94
1900	3590	3499	91
1920	3558	3476	82
1940	3509	3435	74
1960	3465	3394	71
1980	3477	3394	83
2000	3497	3425	72

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 17:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1037	1037	0
1520	1293	1293	0
1540	1548	1548	0
1560	1776	1775	1
1580	2099	2098	1
1600	2261	2261	0
1620	2610	2608	2
1640	2768	2767	1
1660	2953	2953	0
1680	3112	3112	0
1700	3235	3234	1
1720	3367	3367	0
1740	3502	3498	4
1760	3581	3579	2
1780	3447	3445	2
1800	3579	3560	19
1820	3601	3570	31
1840	3505	3480	25
1860	3498	3478	20
1880	3614	3595	19
1900	3566	3544	22
1920	3483	3462	21
1940	3694	3671	23
1960	3583	3563	20
1980	3561	3543	18
2000	3604	3575	29

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 17:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1115	1115	0
1520	1318	1318	0
1540	1501	1501	0
1560	1818	1816	2
1580	2047	2047	0
1600	2160	2160	0
1620	2418	2418	0
1640	2656	2655	1
1660	2794	2794	0
1680	2989	2988	1
1700	3037	3036	1
1720	3135	3133	2
1740	3215	3211	4
1760	3102	3100	2
1780	3294	3293	1
1800	3314	3313	1
1820	3340	3339	1
1840	3268	3268	0
1860	3295	3291	4
1880	3368	3368	0
1900	3260	3254	6
1920	3169	3167	2
1940	3368	3366	2
1960	3341	3338	3
1980	3277	3274	3
2000	3307	3304	3

Special Notes:

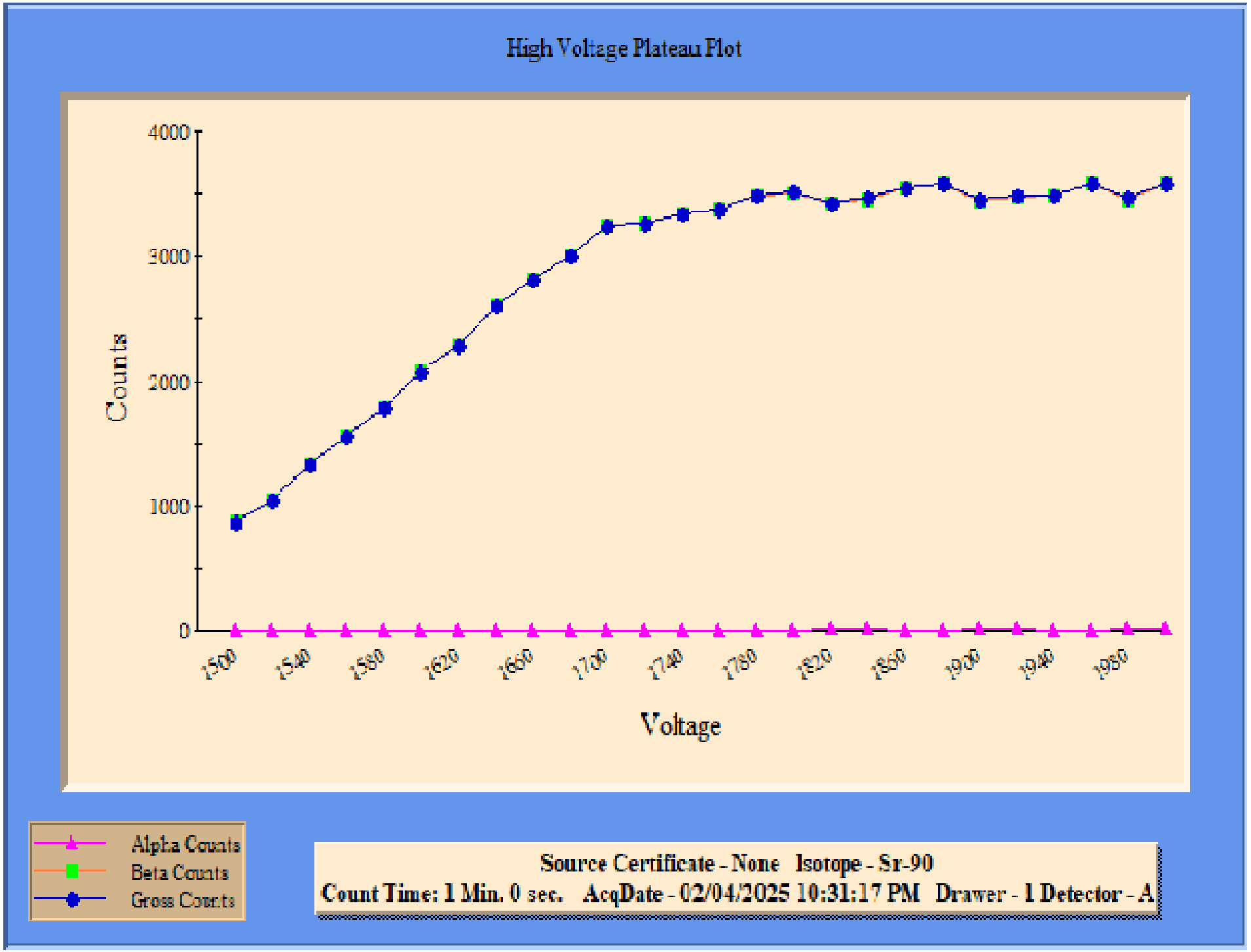
Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

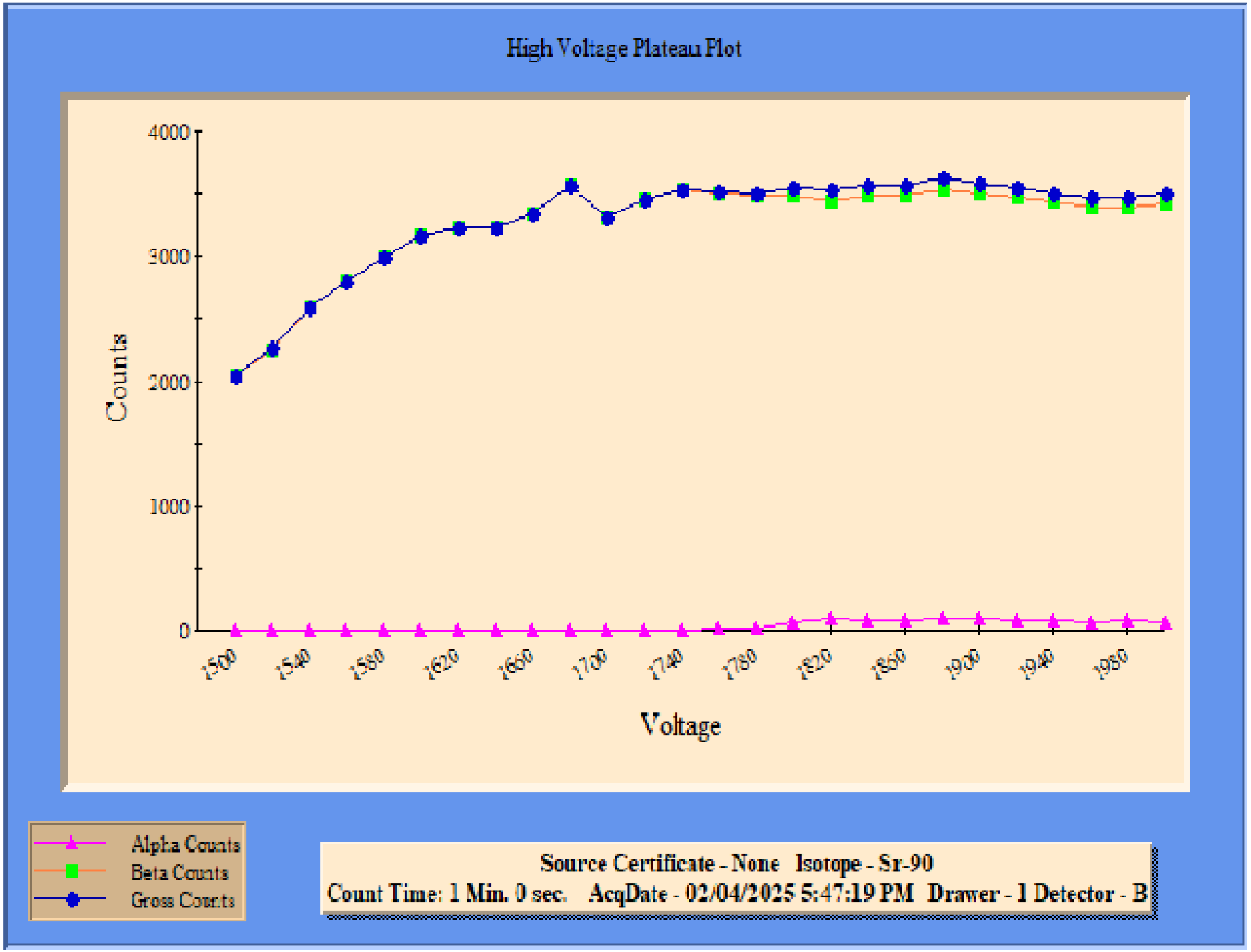
Collected By: _____ **Date:** _____

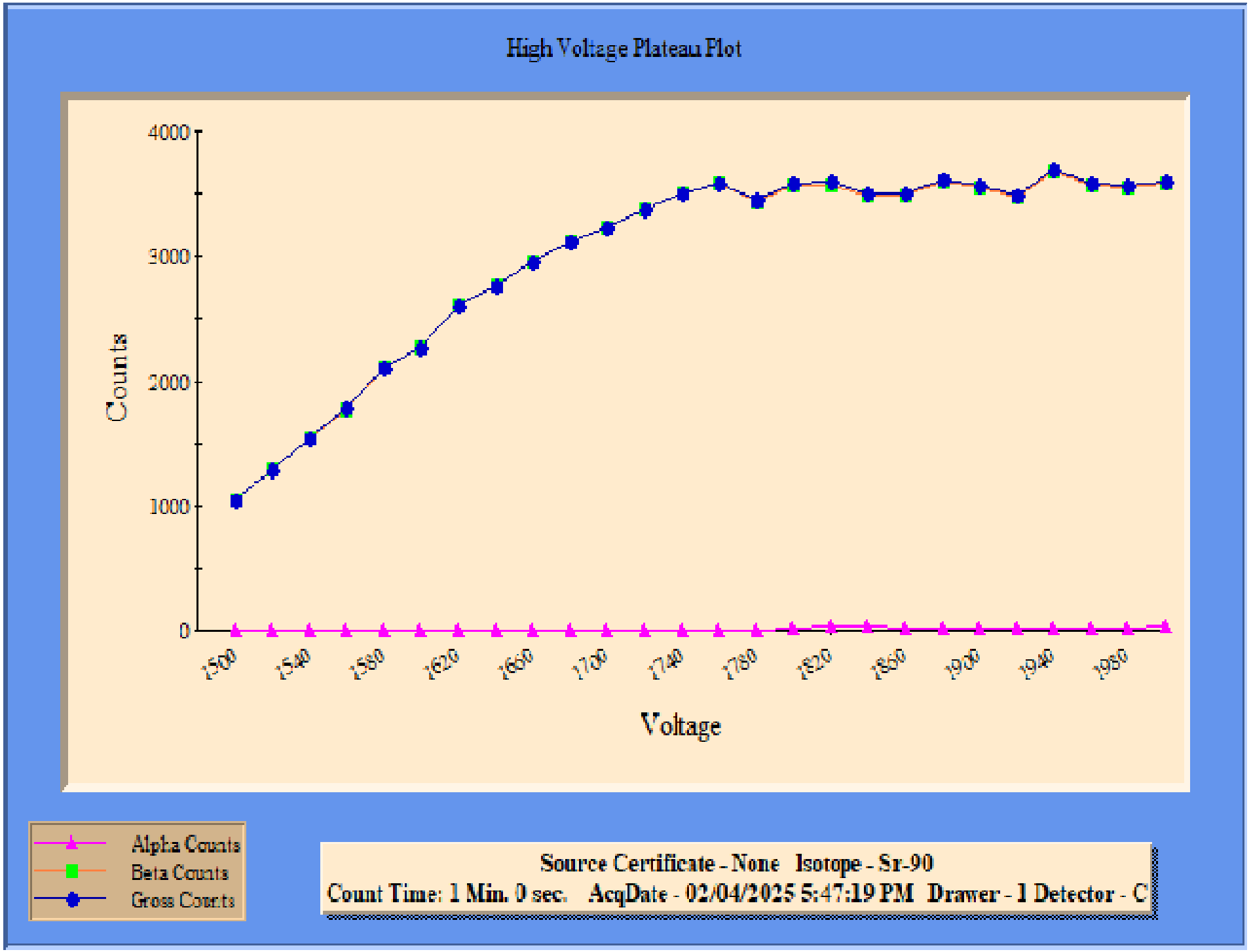
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

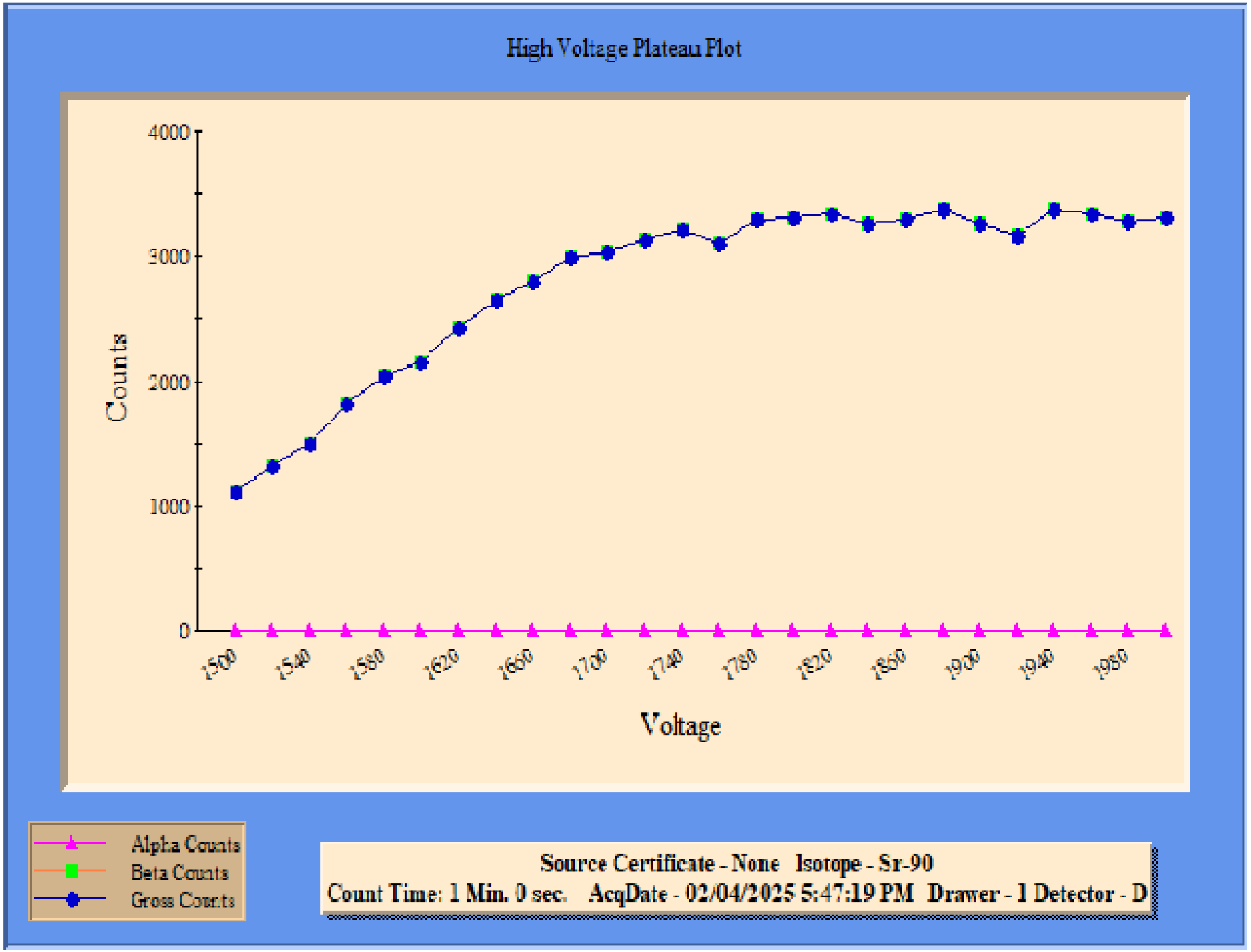
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 10:31:17 PM Drawer - 1 Detector - A


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 5:47:19 PM Drawer - 1 Detector - B


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 5:47:19 PM Drawer - 1 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 5:47:19 PM Drawer - 1 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1694	1693	1
1520	1907	1907	0
1540	2148	2147	1
1560	2514	2513	1
1580	2720	2720	0
1600	2985	2984	1
1620	3162	3161	1
1640	3251	3249	2
1660	3399	3398	1
1680	3480	3480	0
1700	3507	3505	2
1720	3721	3719	2
1740	3637	3636	1
1760	3719	3704	15
1780	3643	3613	30
1800	3672	3613	59
1820	3697	3619	78
1840	3801	3719	82
1860	3752	3686	66
1880	3804	3701	103
1900	3737	3666	71
1920	3849	3766	83
1940	3700	3622	78
1960	3805	3731	74
1980	3821	3740	81
2000	3798	3716	82

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1556	1556	0
1520	1748	1748	0
1540	2121	2121	0
1560	2269	2269	0
1580	2616	2615	1
1600	2751	2751	0
1620	3019	3019	0
1640	2966	2965	1
1660	3061	3061	0
1680	3257	3255	2
1700	3299	3298	1
1720	3285	3284	1
1740	3386	3385	1
1760	3425	3424	1
1780	3475	3472	3
1800	3416	3397	19
1820	3460	3439	21
1840	3367	3357	10
1860	3472	3454	18
1880	3548	3532	16
1900	3488	3466	22
1920	3436	3420	16
1940	3553	3540	13
1960	3368	3353	15
1980	3495	3471	24
2000	3415	3397	18

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1880	1880	0
1520	2172	2172	0
1540	2501	2501	0
1560	2740	2739	1
1580	2867	2867	0
1600	3012	3012	0
1620	3238	3236	2
1640	3322	3321	1
1660	3405	3404	1
1680	3424	3422	2
1700	3526	3526	0
1720	3508	3507	1
1740	3557	3552	5
1760	3530	3525	5
1780	3598	3583	15
1800	3685	3635	50
1820	3753	3697	56
1840	3606	3552	54
1860	3744	3697	47
1880	3722	3669	52
1900	3705	3651	54
1920	3691	3646	45
1940	3710	3655	55
1960	3708	3656	52
1980	3724	3675	49
2000	3757	3696	61

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1353	1353	0
1520	1608	1608	0
1540	1823	1821	2
1560	2099	2098	1
1580	2441	2441	0
1600	2473	2472	1
1620	2689	2688	1
1640	2933	2932	1
1660	2993	2992	1
1680	3141	3141	0
1700	3103	3103	0
1720	3142	3141	1
1740	3174	3172	2
1760	3243	3241	2
1780	3348	3339	9
1800	3206	3187	19
1820	3385	3365	20
1840	3282	3253	29
1860	3288	3255	33
1880	3238	3222	16
1900	3263	3239	24
1920	3252	3228	24
1940	3277	3248	29
1960	3406	3386	20
1980	3287	3260	27
2000	3213	3193	20

Special Notes:

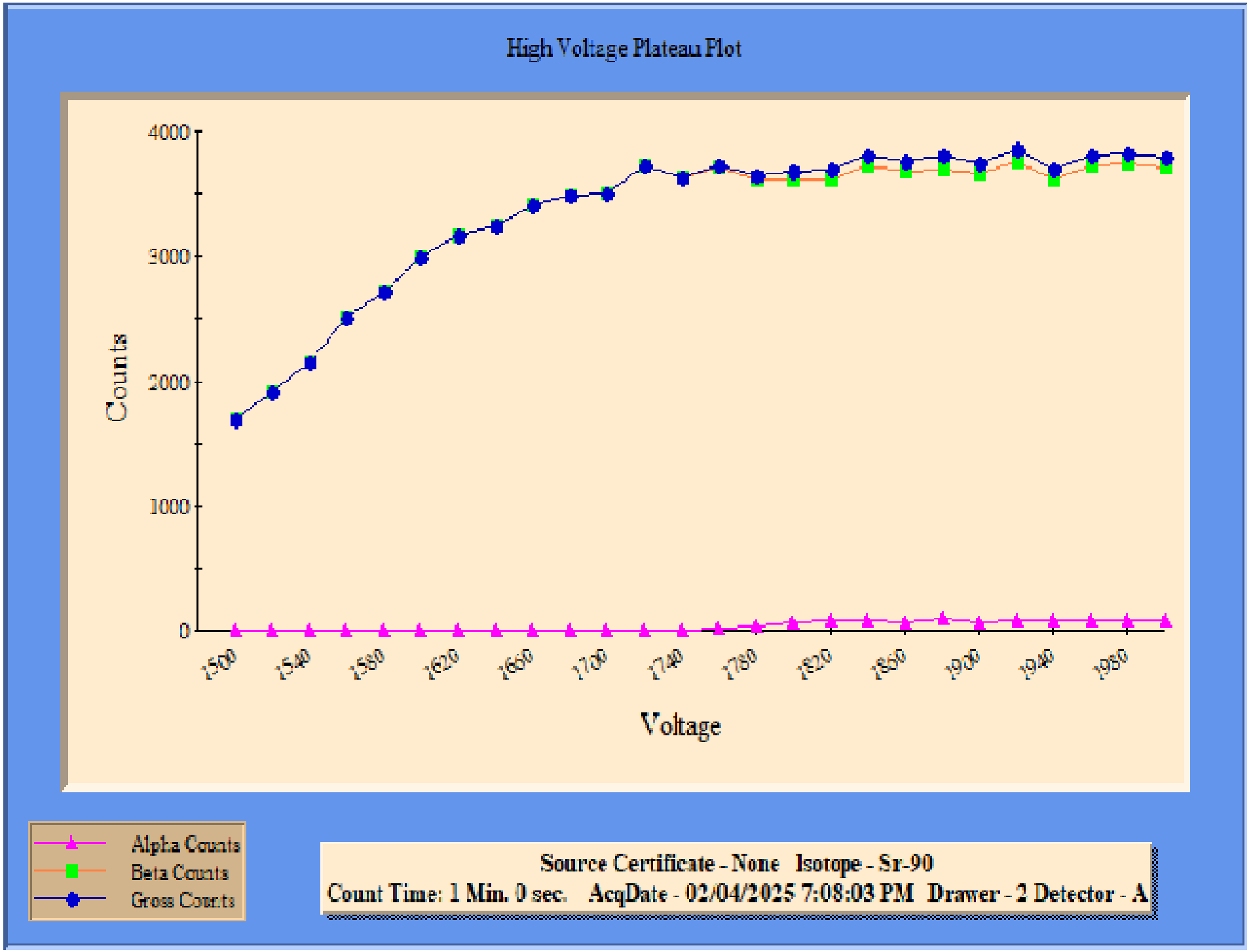
Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

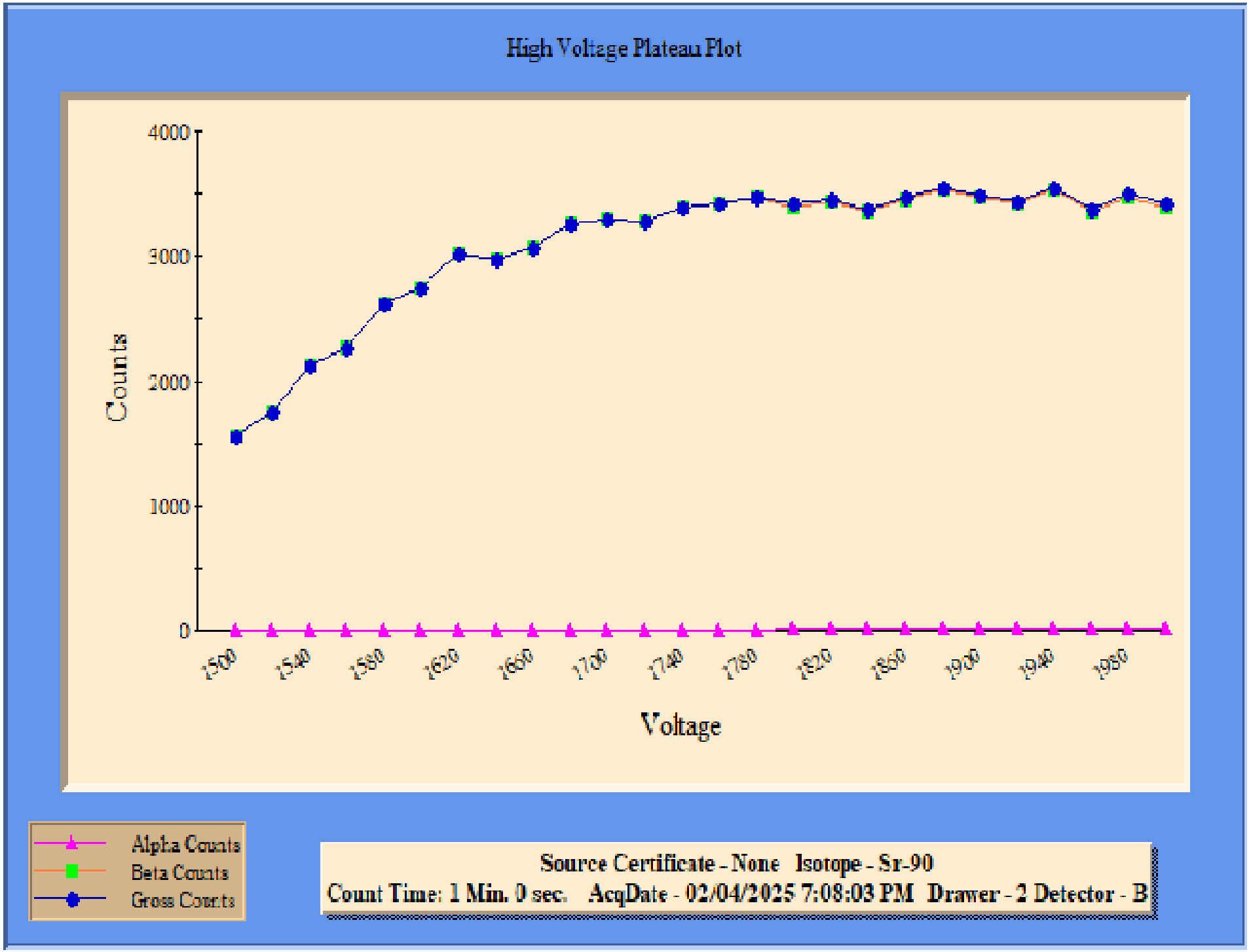
Collected By: _____ **Date:** _____

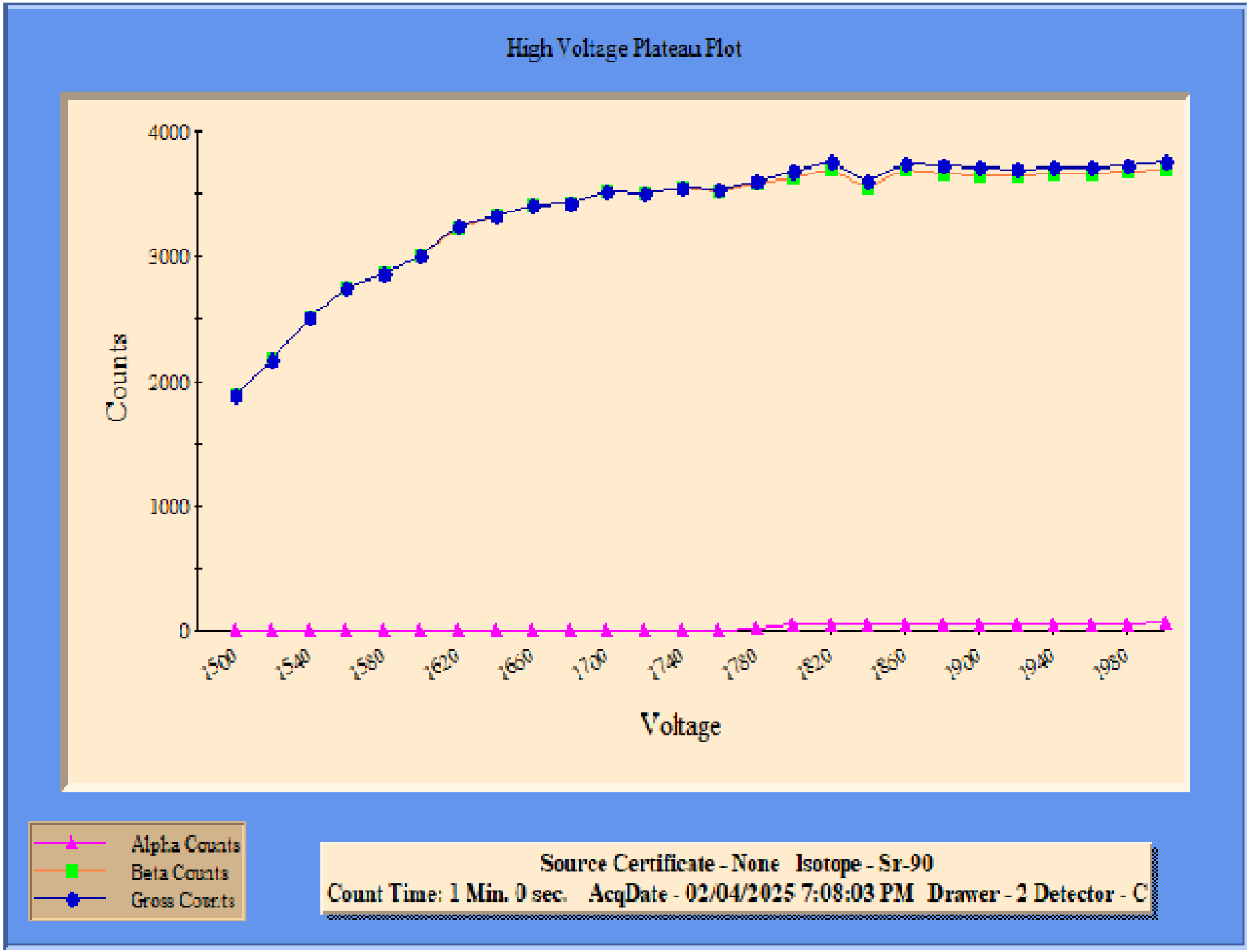
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

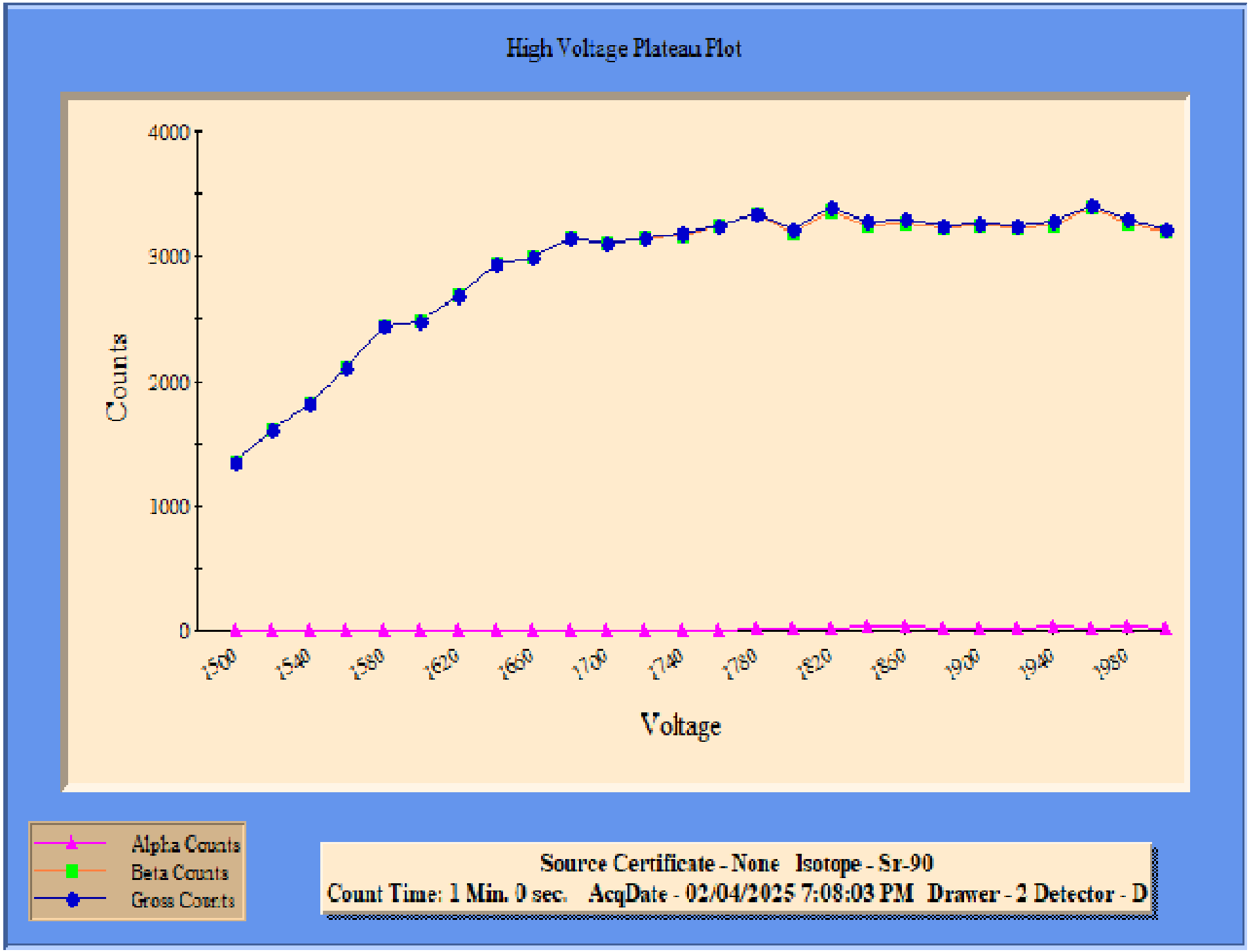
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - A


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - B


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1721	1720	1
1520	2063	2063	0
1540	2349	2349	0
1560	2662	2661	1
1580	2835	2835	0
1600	3055	3054	1
1620	3243	3243	0
1640	3320	3319	1
1660	3529	3529	0
1680	3460	3459	1
1700	3586	3584	2
1720	3712	3708	4
1740	3677	3677	0
1760	3616	3609	7
1780	3809	3788	21
1800	3798	3758	40
1820	3814	3750	64
1840	3632	3571	61
1860	3859	3796	63
1880	3712	3669	43
1900	3596	3552	44
1920	3707	3663	44
1940	3688	3638	50
1960	3771	3718	53
1980	3766	3721	45
2000	3670	3633	37

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1566	1565	1
1520	1866	1865	1
1540	2101	2101	0
1560	2425	2425	0
1580	2651	2649	2
1600	2709	2707	2
1620	2958	2958	0
1640	3114	3112	2
1660	3216	3216	0
1680	3251	3251	0
1700	3243	3242	1
1720	3433	3432	1
1740	3481	3480	1
1760	3317	3310	7
1780	3339	3318	21
1800	3498	3448	50
1820	3490	3431	59
1840	3488	3435	53
1860	3572	3503	69
1880	3485	3412	73
1900	3488	3444	44
1920	3413	3352	61
1940	3393	3339	54
1960	3501	3443	58
1980	3392	3336	56
2000	3471	3418	53

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1943	1942	1
1520	2322	2322	0
1540	2596	2596	0
1560	2881	2879	2
1580	3123	3121	2
1600	3154	3153	1
1620	3375	3375	0
1640	3337	3334	3
1660	3515	3514	1
1680	3571	3570	1
1700	3559	3558	1
1720	3495	3493	2
1740	3624	3621	3
1760	3664	3649	15
1780	3633	3606	27
1800	3769	3706	63
1820	3773	3701	72
1840	3633	3551	82
1860	3673	3599	74
1880	3615	3534	81
1900	3596	3527	69
1920	3633	3567	66
1940	3665	3582	83
1960	3748	3678	70
1980	3680	3597	83
2000	3753	3665	88

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1405	1405	0
1520	1737	1737	0
1540	2027	2027	0
1560	2352	2350	2
1580	2489	2485	4
1600	2667	2667	0
1620	2896	2894	2
1640	3066	3064	2
1660	3148	3146	2
1680	3135	3134	1
1700	3289	3288	1
1720	3226	3224	2
1740	3228	3224	4
1760	3281	3273	8
1780	3292	3274	18
1800	3351	3303	48
1820	3246	3176	70
1840	3420	3340	80
1860	3445	3362	83
1880	3342	3268	74
1900	3337	3256	81
1920	3366	3302	64
1940	3282	3205	77
1960	3308	3249	59
1980	3376	3288	88
2000	3446	3376	70

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1473	1473	0
1520	1740	1740	0
1540	2173	2172	1
1560	2323	2323	0
1580	2748	2747	1
1600	2856	2855	1
1620	2997	2997	0
1640	3197	3197	0
1660	3447	3446	1
1680	3605	3605	0
1700	3502	3502	0
1720	3604	3601	3
1740	3608	3607	1
1760	3727	3725	2
1780	3697	3690	7
1800	3759	3737	22
1820	3677	3657	20
1840	3605	3580	25
1860	3765	3741	24
1880	3790	3765	25
1900	3760	3740	20
1920	3750	3721	29
1940	3756	3727	29
1960	3772	3755	17
1980	3845	3832	13
2000	3782	3752	30

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1503	1503	0
1520	1876	1876	0
1540	2016	2015	1
1560	2215	2215	0
1580	2559	2559	0
1600	2711	2709	2
1620	2877	2875	2
1640	3042	3042	0
1660	3188	3188	0
1680	3233	3232	1
1700	3344	3344	0
1720	3269	3268	1
1740	3427	3425	2
1760	3350	3344	6
1780	3469	3456	13
1800	3461	3421	40
1820	3502	3456	46
1840	3440	3395	45
1860	3436	3378	58
1880	3448	3396	52
1900	3538	3490	48
1920	3422	3384	38
1940	3530	3479	51
1960	3445	3389	56
1980	3432	3375	57
2000	3502	3452	50

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1452	1452	0
1520	1673	1672	1
1540	1902	1902	0
1560	2293	2292	1
1580	2446	2445	1
1600	2606	2606	0
1620	2848	2848	0
1640	3084	3083	1
1660	3206	3204	2
1680	3387	3387	0
1700	3325	3324	1
1720	3304	3303	1
1740	3509	3509	0
1760	3536	3534	2
1780	3518	3510	8
1800	3509	3483	26
1820	3507	3481	26
1840	3552	3528	24
1860	3718	3692	26
1880	3681	3650	31
1900	3554	3525	29
1920	3527	3497	30
1940	3512	3488	24
1960	3591	3568	23
1980	3581	3554	27
2000	3614	3586	28

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1309	1309	0
1520	1630	1629	1
1540	1832	1829	3
1560	2042	2042	0
1580	2471	2469	2
1600	2558	2558	0
1620	2679	2677	2
1640	2907	2906	1
1660	2965	2964	1
1680	3149	3146	3
1700	3070	3069	1
1720	3199	3198	1
1740	3258	3256	2
1760	3284	3281	3
1780	3266	3256	10
1800	3256	3222	34
1820	3320	3273	47
1840	3365	3320	45
1860	3443	3381	62
1880	3350	3299	51
1900	3318	3269	49
1920	3305	3257	48
1940	3379	3330	49
1960	3316	3266	50
1980	3366	3318	48
2000	3348	3305	43

Special Notes:

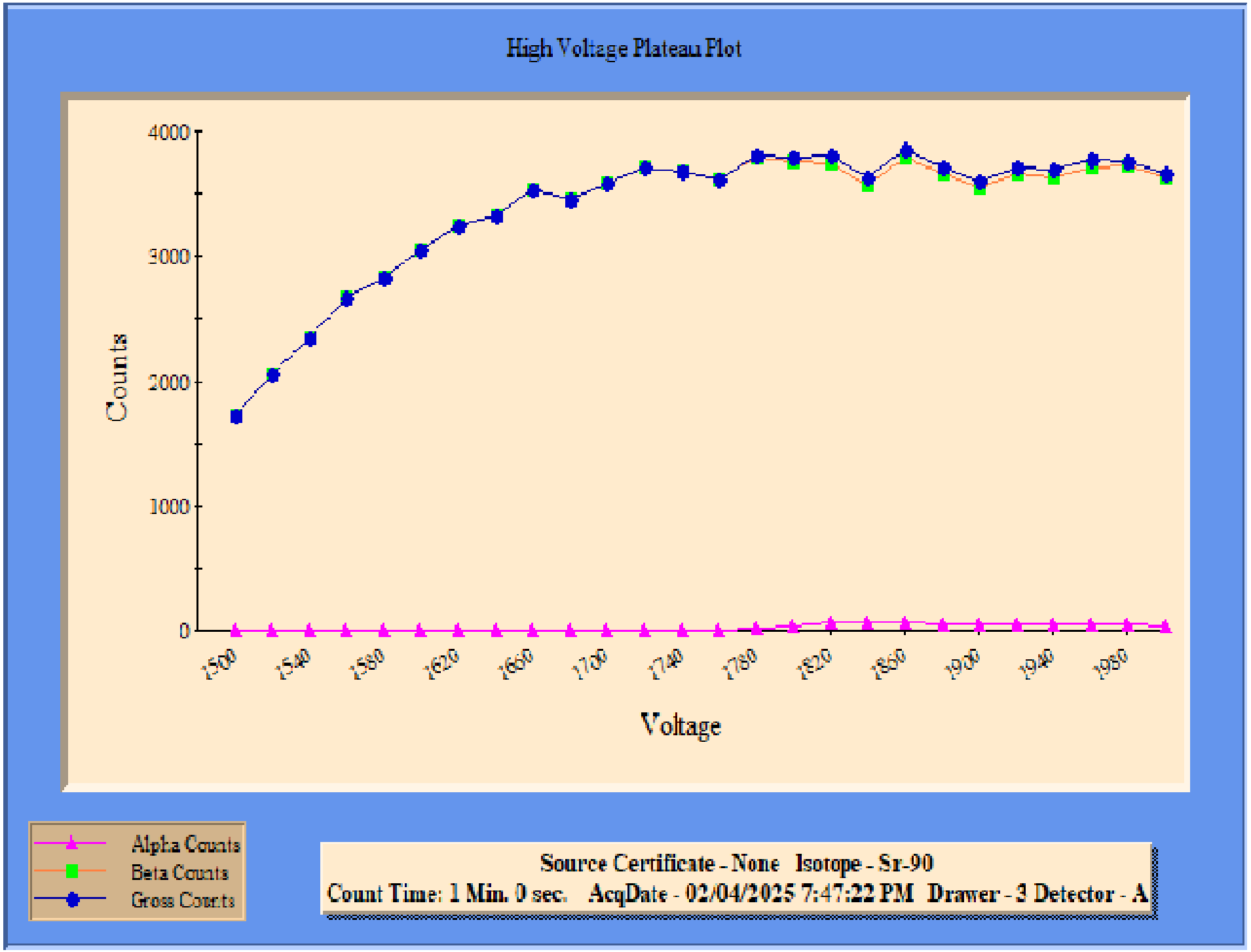
Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

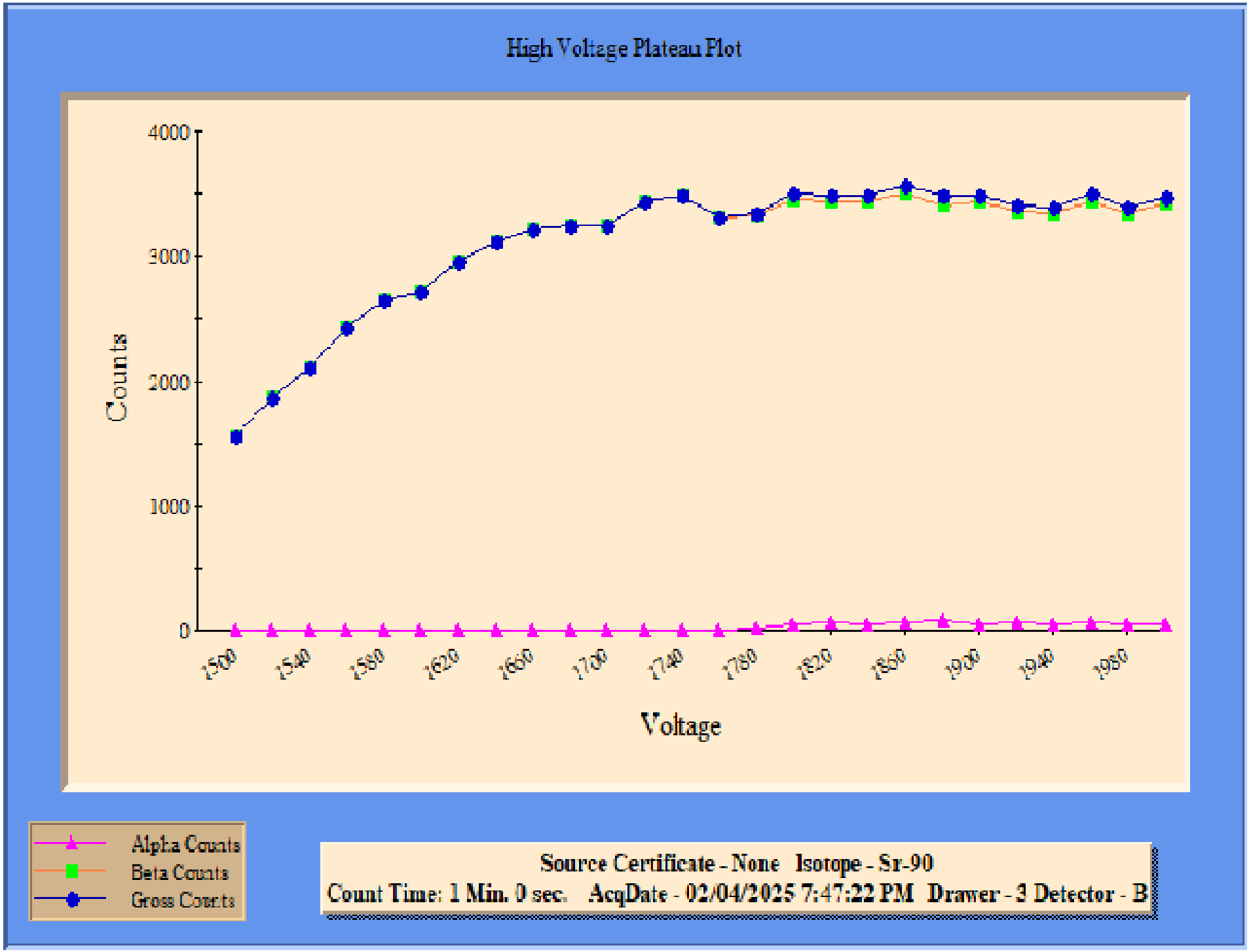
Collected By: _____ **Date:** _____

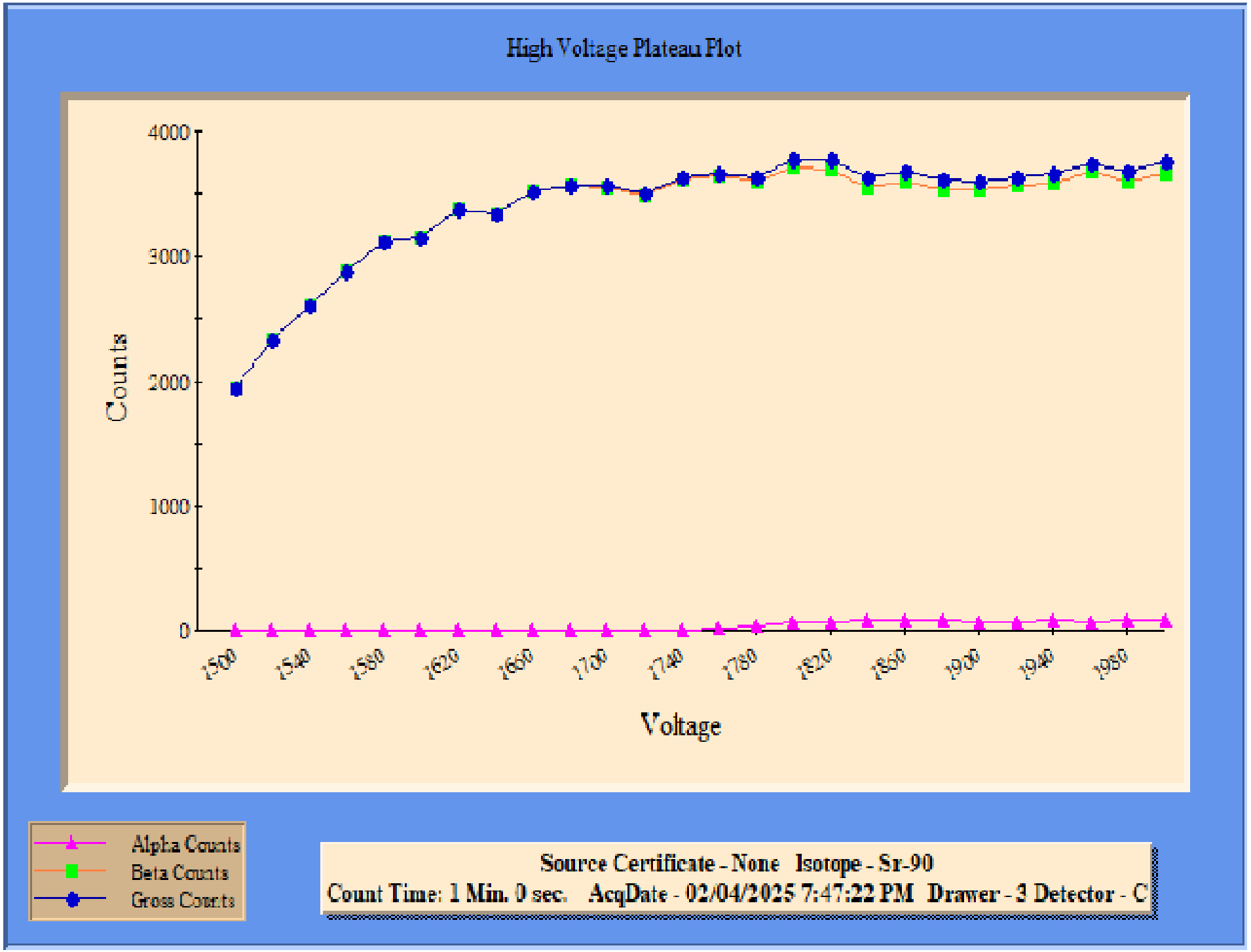
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

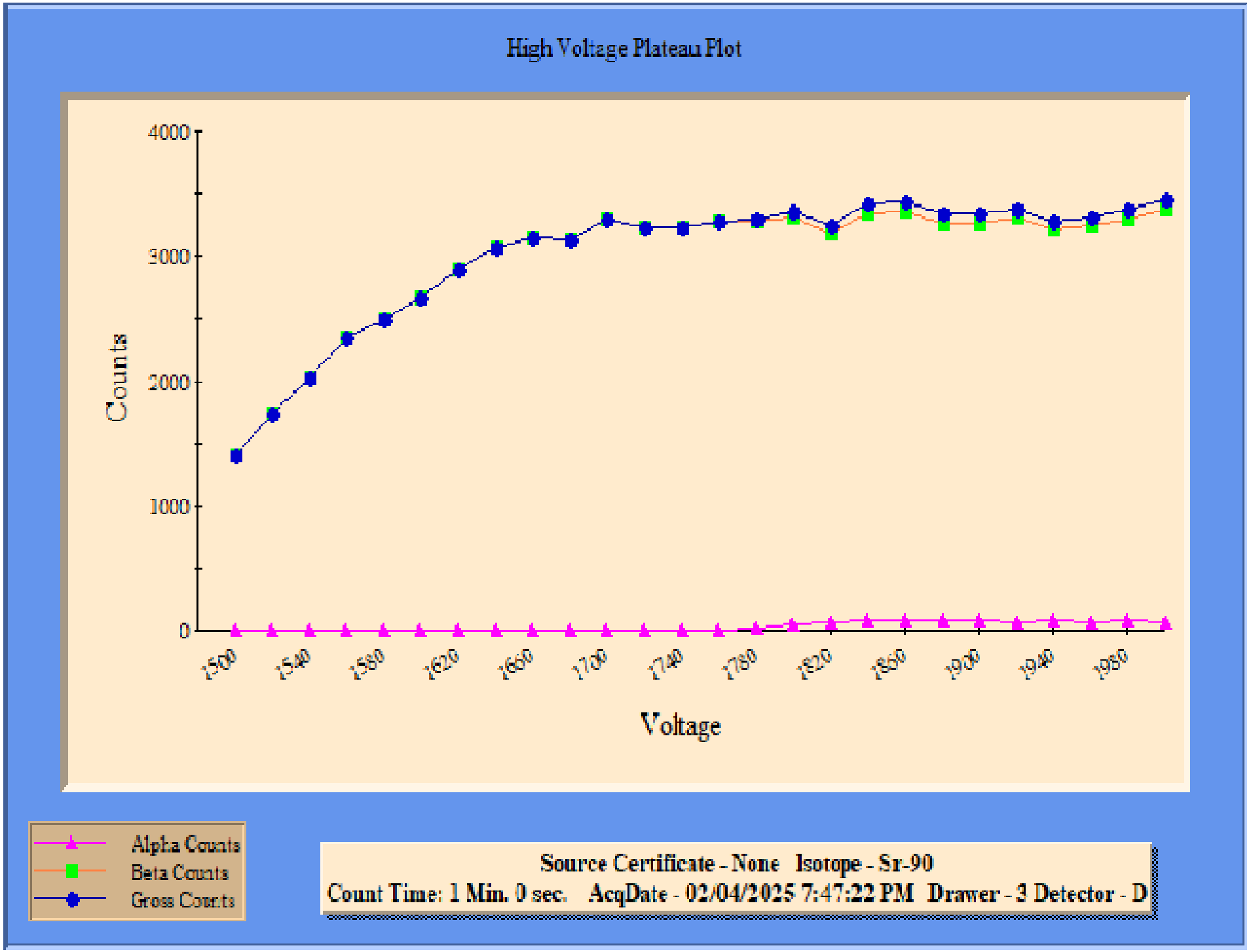
Approved By: _____ **Date:** _____

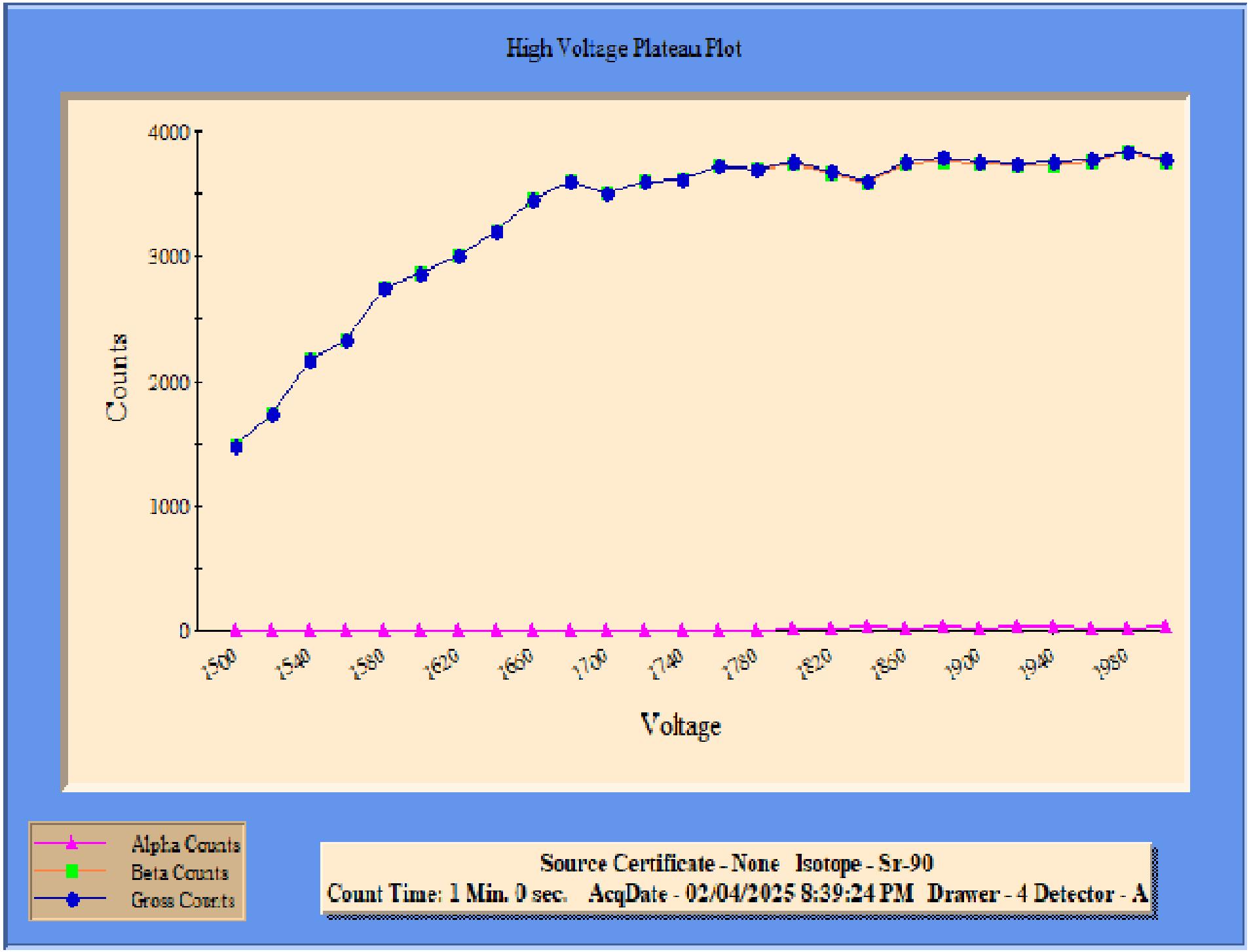
Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

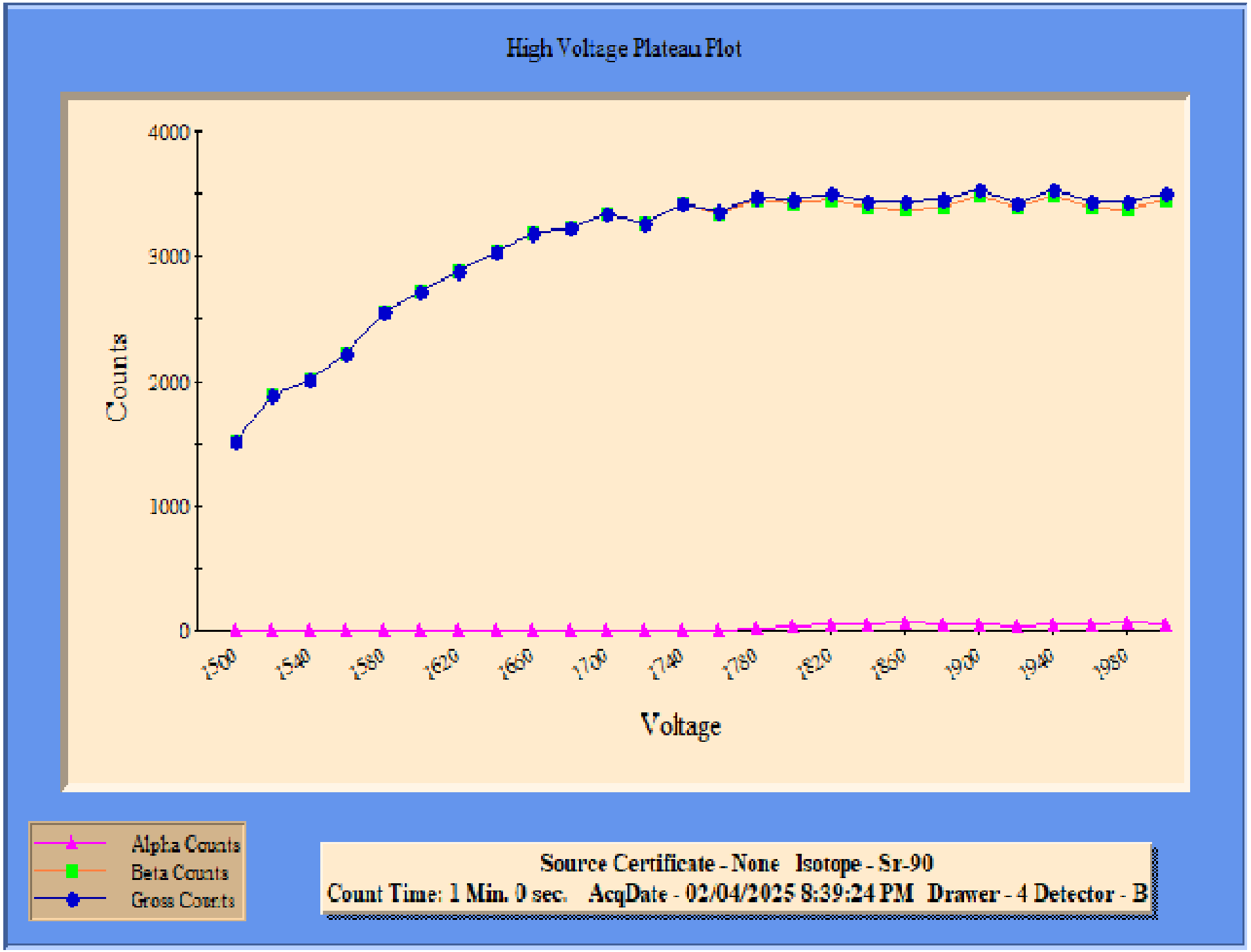

High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - A

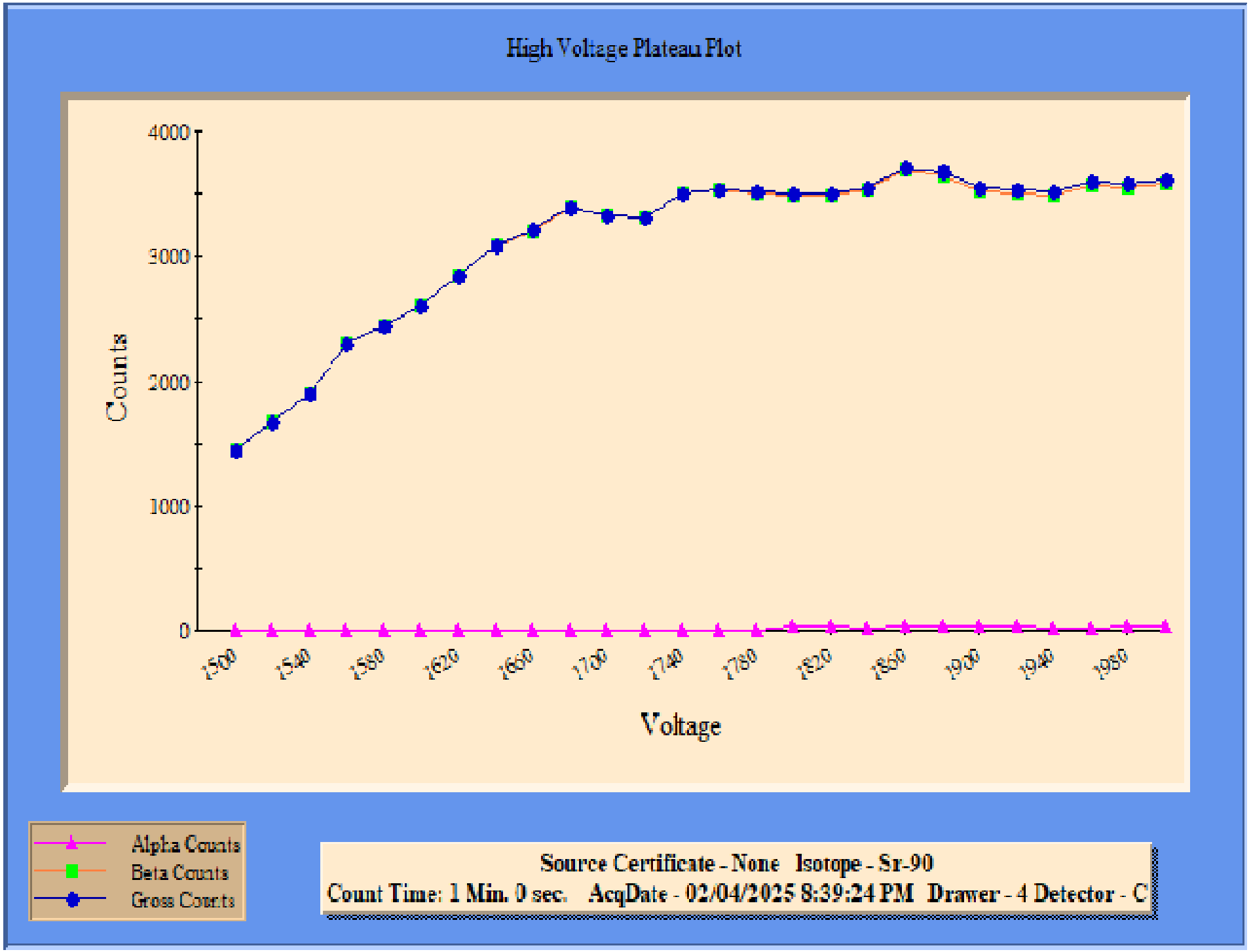

High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - B

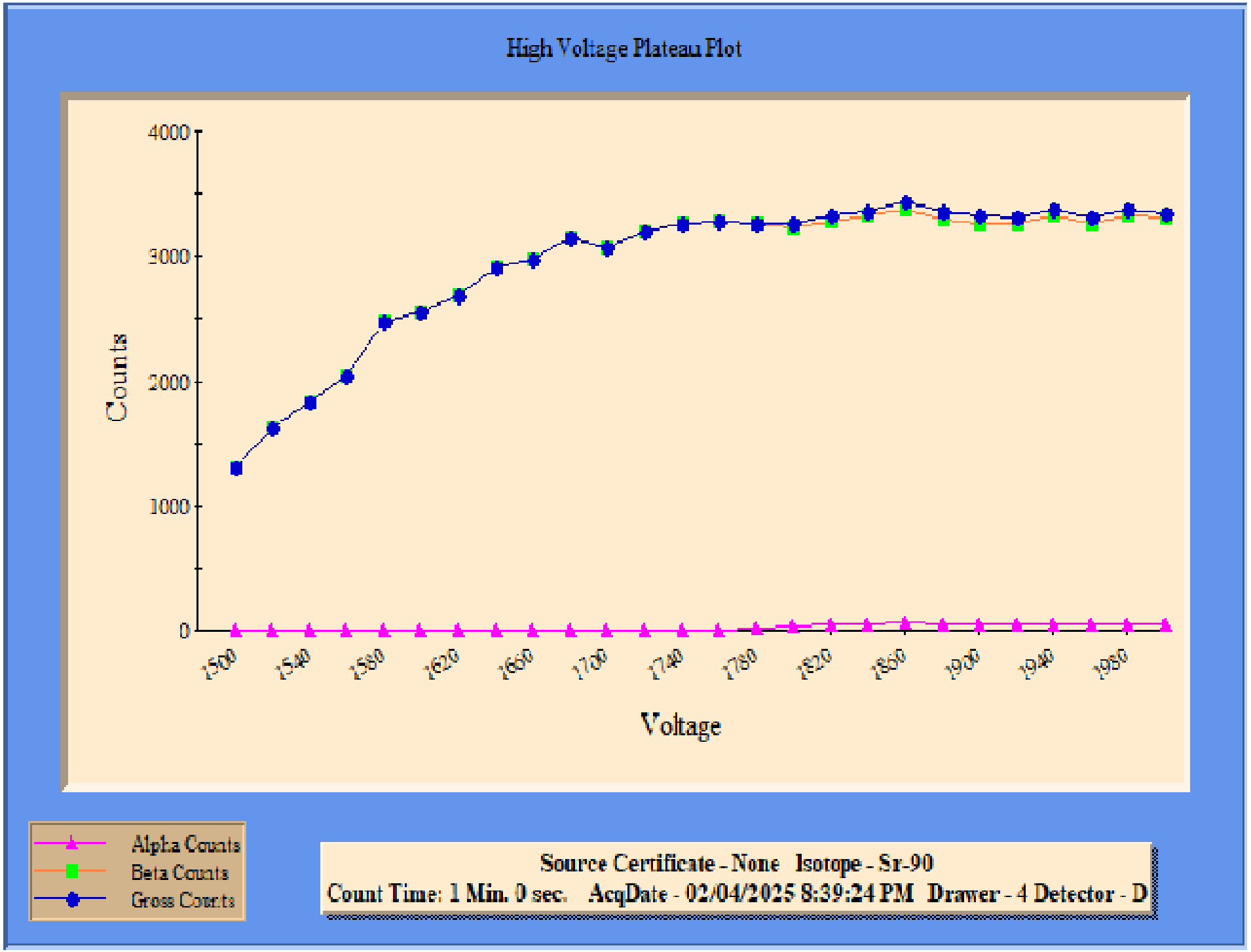

High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - D


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - A


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - B


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - D

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:19
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	1	**Detector:**	A	**Source Certificate:**	23A16260
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Gamma

Count	Beta ROI Counts	Alpha ROI Counts
#	**Chn 1- 899**	**Chn 900 - 1023**
1	3420	3
2	3471	2
3	3488	1
4	3521	1
5	3407	0
6	3542	3
7	3430	3
8	3445	2
9	3520	0
10	3391	1
11	3563	5
12	3421	0
13	3495	2
14	3522	0
15	3443	3
16	3525	2
17	3467	5
18	3474	3
19	3505	5
20	3440	1

(Xbar) Mean:	3474.50	2.10
Calculated Chi-Sqr Value:	13.07	24.67

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: B
Voltage: 1780
Conf Level: 95.0 %
Test Date: 02/04/2025 23:19
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3457	29
2	3352	25
3	3334	18
4	3518	26
5	3381	26
6	3313	29
7	3466	24
8	3450	22
9	3453	23
10	3365	24
11	3479	17
12	3340	32
13	3462	25
14	3413	34
15	3290	25
16	3370	21
17	3392	20
18	3382	24
19	3407	22
20	3384	30

(Xbar) Mean:	3400.40	24.80
Calculated Chi-Sqr Value:	20.64	14.81

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:19
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	1	**Detector:**	C	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3569	3
2	3618	7
3	3684	8
4	3665	11
5	3478	7
6	3504	7
7	3542	12
8	3587	7
9	3657	4
10	3671	9
11	3575	5
12	3618	16
13	3589	1
14	3659	6
15	3542	8
16	3571	9
17	3595	3
18	3643	4
19	3613	10
20	3491	12

(Xbar) Mean:	3593.55	7.45
Calculated Chi-Sqr Value:	19.57	33.95

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:19
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	1	**Detector:**	D	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3397	2
2	3317	1
3	3497	3
4	3363	1
5	3412	4
6	3441	4
7	3392	1
8	3330	0
9	3317	4
10	3320	0
11	3428	0
12	3416	1
13	3432	2
14	3340	0
15	3499	1
16	3339	1
17	3358	2
18	3385	3
19	3424	1
20	3422	1

(Xbar) Mean:	3391.45	1.60
Calculated Chi-Sqr Value:	17.26	21.75

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: A
Voltage: 1780
Conf Level: 95.0 %

Test Date: 02/04/2025 23:52
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: 23A16260
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3516	31
2	3578	23
3	3641	19
4	3669	22
5	3514	29
6	3657	24
7	3657	24
8	3542	22
9	3575	28
10	3659	28
11	3539	21
12	3575	28
13	3609	24
14	3593	39
15	3577	15
16	3560	44
17	3664	22
18	3589	17
19	3600	28
20	3605	29

(Xbar) Mean:	3595.95	25.85
Calculated Chi-Sqr Value:	12.75	34.68

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:52
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	2	**Detector:**	B	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	**Chn 1- 899**	**Chn 900 - 1023**
1	3210	0
2	3214	4
3	3368	3
4	3272	3
5	3219	2
6	3222	2
7	3281	6
8	3315	4
9	3316	1
10	3255	2
11	3252	1
12	3315	4
13	3355	2
14	3350	1
15	3264	7
16	3226	4
17	3341	3
18	3295	1
19	3218	7
20	3275	3

(Xbar) Mean:	3278.15	3.00
Calculated Chi-Sqr Value:	15.48	24.67

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: C
Voltage: 1780
Conf Level: 95.0 %

Test Date: 02/04/2025 23:52
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3630	15
2	3646	14
3	3679	12
4	3585	21
5	3609	17
6	3618	15
7	3618	9
8	3553	13
9	3730	14
10	3659	15
11	3742	10
12	3739	19
13	3636	15
14	3763	16
15	3635	20
16	3696	16
17	3656	12
18	3651	16
19	3566	21
20	3755	19

(Xbar) Mean:	3658.30	15.45
Calculated Chi-Sqr Value:	20.10	14.04

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: D
Voltage: 1780
Conf Level: 95.0 %

Test Date: 02/04/2025 23:52
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3384	1
2	3335	3
3	3518	8
4	3369	4
5	3354	5
6	3344	2
7	3464	11
8	3304	11
9	3483	7
10	3422	3
11	3444	3
12	3372	3
13	3495	5
14	3430	10
15	3347	5
16	3340	3
17	3438	4
18	3467	8
19	3361	5
20	3431	9

(Xbar) Mean:	3405.10	5.50
Calculated Chi-Sqr Value:	21.22	32.18

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: 23A16260
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3568	5
2	3607	3
3	3542	2
4	3630	1
5	3609	8
6	3624	3
7	3631	4
8	3591	4
9	3528	4
10	3714	7
11	3610	5
12	3700	6
13	3603	6
14	3589	3
15	3461	4
16	3599	3
17	3652	8
18	3558	4
19	3618	3
20	3625	1

(Xbar) Mean:	3602.95	4.20
Calculated Chi-Sqr Value:	16.66	18.38

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: B
Voltage: 1760
Conf Level: 95.0 %
Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3312	4
2	3305	3
3	3410	4
4	3345	2
5	3335	8
6	3314	5
7	3256	8
8	3278	5
9	3326	2
10	3333	4
11	3258	7
12	3334	4
13	3324	9
14	3333	4
15	3277	7
16	3394	7
17	3345	6
18	3195	5
19	3353	4
20	3276	6

(Xbar) Mean:	3315.15	5.20
Calculated Chi-Sqr Value:	13.78	14.46

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: C
Voltage: 1760
Conf Level: 95.0 %

Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3615	10
2	3681	8
3	3674	10
4	3604	11
5	3756	8
6	3682	9
7	3688	8
8	3671	12
9	3759	8
10	3814	7
11	3640	11
12	3671	17
13	3761	11
14	3748	10
15	3713	8
16	3696	12
17	3657	14
18	3680	11
19	3646	12
20	3687	6

(Xbar) Mean:	3692.15	10.15
Calculated Chi-Sqr Value:	14.40	12.47

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: D
Voltage: 1760
Conf Level: 95.0 %

Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3427	7
2	3512	7
3	3432	10
4	3474	8
5	3507	9
6	3484	19
7	3491	10
8	3436	9
9	3494	10
10	3418	12
11	3446	5
12	3363	7
13	3428	10
14	3388	3
15	3357	7
16	3443	9
17	3495	12
18	3456	7
19	3373	2
20	3457	8

(Xbar) Mean:	3444.05	8.55
Calculated Chi-Sqr Value:	12.33	28.18

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/05/2025 15:35
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	4	**Detector:**	A	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3523	8
2	3647	10
3	3651	13
4	3734	14
5	3569	9
6	3576	15
7	3523	19
8	3680	16
9	3630	18
10	3593	9
11	3626	10
12	3647	15
13	3622	12
14	3696	7
15	3520	14
16	3471	16
17	3485	17
18	3504	12
19	3597	15
20	3531	21

(Xbar) Mean:	3591.25	13.50
Calculated Chi-Sqr Value:	29.19	20.81

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** B
Counting Time: 1 min 0 sec **Voltage:** 1780
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 02/05/2025 15:35
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3331	34
2	3331	32
3	3324	30
4	3456	41
5	3219	37
6	3261	31
7	3286	25
8	3360	36
9	3304	30
10	3291	38
11	3247	30
12	3386	43
13	3378	35
14	3363	44
15	3335	25
16	3236	49
17	3326	32
18	3385	33
19	3316	35
20	3455	34

(Xbar) Mean:	3329.50	34.70
Calculated Chi-Sqr Value:	23.78	20.29

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** C
Counting Time: 1 min 0 sec **Voltage:** 1780
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 02/05/2025 15:35
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3653	28
2	3536	20
3	3612	30
4	3468	38
5	3580	16
6	3557	29
7	3580	23
8	3554	28
9	3531	30
10	3564	36
11	3541	36
12	3572	36
13	3489	28
14	3551	24
15	3541	25
16	3530	34
17	3405	33
18	3546	32
19	3525	18
20	3529	19

(Xbar) Mean:	3543.20	28.15
Calculated Chi-Sqr Value:	14.04	29.01

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1780
Conf Level: 95.0 %
Test Date: 02/05/2025 15:35
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3347	27
2	3380	31
3	3385	41
4	3362	33
5	3426	41
6	3380	33
7	3333	42
8	3328	43
9	3398	38
10	3495	50
11	3554	28
12	3448	39
13	3476	35
14	3450	43
15	3452	44
16	3538	38
17	3333	33
18	3444	34
19	3396	37
20	3421	36

(Xbar) Mean:	3417.30	37.30
Calculated Chi-Sqr Value:	23.88	16.90

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

SGD GROUP:
METHOD EPA 900/9310
PREP DATE: 2/7/2025 0:00

PREP: CAB4242
ANALYST: ALG3788

BACKGROUNI	CPM	ALPHA	BETA
3A-1	DET1	0.071	1.51
3A-2	DET2	0.075	1.66
3A-3	DET3	0.043	1.44
3A-4	DET4	0.056	1.52
3B-1	DET5	0.040	0.98
3B-2	DET6	0.033	0.96
3B-3	DET7	0.097	0.93
3B-4	DET8	0.051	1.78
3C-1	DET9	0.057	1.09
3C-2	DET10	0.038	1.57
3C-3	DET11	0.051	1.37
3C-4	DET12	0.043	1.05
3D-1	DET13	0.122	1.03
3D-2	DET14	0.060	1.03
3D-3	DET15	0.073	1.06
3D-4	DET16	0.110	1.21

COUNT DATE/TIME	SAMPLE ID	SAMPLI VOL(mL	TARE WEIGHT GRAMS	GROSS WEIGHT GRAMS	NET WT. mg	ALPHA EFF	BETA EFF	DET NO.	ALPHA BKG	BETA BKG	ALPHA COUNTS	BETA COUNTS	COUNT TIME	ALPHA Lc	BETA Lc	ALPHA MDA	BETA MDA	Th-230 Std Xtalk	DET (1-8) Th-230 Std Xtalk	DET (9-16) Th-230 Std Xtalk
=======	=======	======	=======	=======	=====	=====	=====	======	======	======	=====	======	======	======	======	======	======	======		
2/7/25 12:01	ALPHA ICV	1000			0.0	28.6	45.7	1	0.071	1.51	31046	14705	5	0.311	0.897	1.566	2.380	0.437	0.437	NA
2/7/25 12:01	ALPHA ICV	1000			0.0	30.7	47.0	2	0.075	1.66	32059	13943	5	0.297	0.912	**1.474**	**2.393**	0.370	0.370	NA
2/7/25 12:01	ALPHA ICV	1000			0.0	29.5	46.2	3	0.043	1.44	30886	14057	5	0.234	0.867	**1.382**	**2.315**	0.403	0.403	NA
2/7/25 12:01	ALPHA ICV	1000			0.0	28.2	46.4	4	0.056	1.52	29925	16652	5	0.280	0.885	**1.517**	**2.346**	0.471	0.471	NA
2/7/25 12:07	ALPHA ICV	1000			0.0	30.2	46.7	5	0.040	0.98	32677	13395	5	0.221	0.706	**1.334**	**1.986**	0.372	0.372	NA
2/7/25 23:32	ALPHA ICV	1000			0.0	29.1	46.1	6	0.033	0.96	29873	14441	5	0.208	0.709	**1.344**	**1.999**	0.403	0.403	NA
2/7/25 12:07	ALPHA ICV	1000			0.0	30.5	47.1	7	0.097	0.93	30919	14100	5	0.340	0.681	**1.563**	**1.933**	0.363	0.363	NA
2/7/25 12:07	ALPHA ICV	1000			0.0	29.1	46.1	8	0.051	1.78	30492	14903	5	0.258	0.965	**1.442**	**2.511**	0.391	0.391	NA
2/7/25 12:13	ALPHA ICV	1000			0.0	29.5	47.1	9	0.057	1.09	31176	14006	5	0.270	0.740	**1.455**	**2.049**	0.400	NA	0.400
2/7/25 12:13	ALPHA ICV	1000			0.0	29.7	46.7	10	0.038	1.57	31862	13815	5	0.218	0.895	**1.345**	**2.364**	0.402	NA	0.402
2/7/25 12:13	ALPHA ICV	1000			0.0	29.8	47.5	11	0.051	1.37	32180	14145	5	0.252	0.822	**1.408**	**2.208**	0.397	NA	0.397
2/7/25 12:13	ALPHA ICV	1000			0.0	29.7	46.5	12	0.043	1.05	31243	13907	5	0.233	0.732	**1.375**	**2.041**	0.396	NA	0.396
2/7/25 23:32	ALPHA ICV	1000			0.0	30.2	47.1	13	0.122	1.03	30635	14466	5	0.386	0.716	**1.665**	**2.002**	0.363	NA	0.363
2/7/25 12:22	ALPHA ICV	1000			0.0	30.4	46.7	14	0.060	1.03	31692	13763	5	0.269	0.723	**1.427**	**2.021**	0.366	NA	0.366
2/7/25 12:22	ALPHA ICV	1000			0.0	30.4	46.4	15	0.073	1.06	31462	14081	5	0.296	0.739	**1.480**	**2.055**	0.356	NA	0.356
2/7/25 12:22	ALPHA ICV	1000			0.0	30.3	46.5	16	0.110	1.21	32377	13598	5	0.364	0.790	**1.618**	**2.157**	0.359	NA	0.359
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA

GROSS ALPHA AND GROSS BETA DATA REPORT
EPA 900/9310
0

SAMPLE ID	GROSS ALPHA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	GROSS BETA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	PREP DATE	ANALYSIS DATE	True Value: 10117 % Recov:
ALPHA ICV	9792.742	108.934	#DIV/0!	0.311	1.566	1.315	224.229	46.903	#DIV/0!	0.897	2.380	1.510	2/7/25 0:00	2/7/25 12:01	0.96795
ALPHA ICV	9412.607	103.038	#DIV/0!	0.297	1.474	1.229	397.054	44.344	#DIV/0!	0.912	2.393	1.512	2/7/25 0:00	2/7/25 12:01	0.93038
ALPHA ICV	9422.632	105.088	#DIV/0!	0.234	1.382	1.235	311.651	45.373	#DIV/0!	0.867	2.315	1.471	2/7/25 0:00	2/7/25 12:01	0.93137
ALPHA ICV	9563.733	108.361	#DIV/0!	0.280	1.517	1.312	497.832	49.106	#DIV/0!	0.885	2.346	1.488	2/7/25 0:00	2/7/25 12:01	0.94531
ALPHA ICV	9742.383	105.634	#DIV/0!	0.221	1.334	1.202	236.096	43.747	#DIV/0!	0.706	1.986	1.287	2/7/25 0:00	2/7/25 12:07	0.96297
ALPHA ICV	9248.905	104.884	#DIV/0!	0.208	1.344	1.239	467.623	46.008	#DIV/0!	0.709	1.999	1.297	2/7/25 0:00	2/7/25 23:32	0.91419
ALPHA ICV	9122.758	101.690	#DIV/0!	0.340	1.563	1.263	550.864	44.555	#DIV/0!	0.681	1.933	1.257	2/7/25 0:00	2/7/25 12:07	0.90173
ALPHA ICV	9425.948	105.802	#DIV/0!	0.258	1.442	1.262	578.978	46.823	#DIV/0!	0.965	2.511	1.582	2/7/25 0:00	2/7/25 12:07	0.93169
ALPHA ICV	9528.185	105.770	#DIV/0!	0.270	1.455	1.256	290.270	44.374	#DIV/0!	0.740	2.049	1.320	2/7/25 0:00	2/7/25 12:13	0.9418
ALPHA ICV	9655.331	106.021	#DIV/0!	0.218	1.345	1.219	191.581	44.493	#DIV/0!	0.895	2.364	1.497	2/7/25 0:00	2/7/25 12:13	0.95437
ALPHA ICV	9714.100	106.138	#DIV/0!	0.252	1.408	1.232	256.718	44.240	#DIV/0!	0.822	2.208	1.406	2/7/25 0:00	2/7/25 12:13	0.96018
ALPHA ICV	9484.013	105.166	#DIV/0!	0.233	1.375	1.228	294.879	44.752	#DIV/0!	0.732	2.041	1.318	2/7/25 0:00	2/7/25 12:13	0.93743
ALPHA ICV	9146.164	102.423	#DIV/0!	0.386	1.665	1.307	638.463	45.066	#DIV/0!	0.716	2.002	1.294	2/7/25 0:00	2/7/25 23:32	0.90404
ALPHA ICV	9406.036	103.560	#DIV/0!	0.269	1.427	1.224	414.999	44.345	#DIV/0!	0.723	2.021	1.306	2/7/25 0:00	2/7/25 12:22	0.92973
ALPHA ICV	9323.930	103.031	#DIV/0!	0.296	1.480	1.238	556.375	45.162	#DIV/0!	0.739	2.055	1.326	2/7/25 0:00	2/7/25 12:22	0.92161
ALPHA ICV	9616.238	104.750	#DIV/0!	0.364	1.618	1.287	384.230	44.328	#DIV/0!	0.790	2.157	1.382	2/7/25 0:00	2/7/25 12:22	0.9505
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	

SGD GROUP:
METHOD EPA 900/9310
PREP DATE: 2/7/2025 0:00

PREP: CAB4242
ANALYST: ALG3788

BACKGROUNI	CPM	ALPHA	BETA
3A-1	DET1	0.071	1.51
3A-2	DET2	0.075	1.66
3A-3	DET3	0.043	1.44
3A-4	DET4	0.056	1.52
3B-1	DET5	0.040	0.98
3B-2	DET6	0.033	0.96
3B-3	DET7	0.097	0.93
3B-4	DET8	0.051	1.78
3C-1	DET9	0.057	1.09
3C-2	DET10	0.038	1.57
3C-3	DET11	0.051	1.37
3C-4	DET12	0.043	1.05
3D-1	DET13	0.122	1.03
3D-2	DET14	0.060	1.03
3D-3	DET15	0.073	1.06
3D-4	DET16	0.110	1.21

COUNT DATE/TIME	SAMPLE ID	SAMPLI VOL(mL	TARE WEIGHT GRAMS	GROSS WEIGHT GRAMS	NET WT. mg	ALPHA EFF	BETA EFF	DET NO.	ALPHA BKG	BETA BKG	ALPHA COUNTS	BETA COUNTS	COUNT TIME	ALPHA Lc	BETA Lc	ALPHA MDA	BETA MDA	Th-230 Std Xtalk	DET (1-8) Th-230 Std Xtalk	DET (9-16) Th-230 Std Xtalk
=======	=======	======	=======	=======	=====	=====	=====	======	======	======	=====	======	======	======	======	======	======	======		
2/7/25 23:54	BETA ICV	1000			0.0	28.6	45.7	1	0.071	1.51	13	17789	5	0.311	0.897	1.566	2.380	0.437	0.437	NA
2/7/25 15:51	BETA ICV	1000			0.0	30.7	47.0	2	0.075	1.66	125	18376	5	0.297	0.912	**1.474**	**2.393**	0.370	0.370	NA
2/7/25 15:51	BETA ICV	1000			0.0	29.5	46.2	3	0.043	1.44	8	17713	5	0.234	0.867	**1.382**	**2.315**	0.403	0.403	NA
2/7/25 15:51	BETA ICV	1000			0.0	28.2	46.4	4	0.056	1.52	9	18117	5	0.280	0.885	**1.517**	**2.346**	0.471	0.471	NA
2/7/25 23:54	BETA ICV	1000			0.0	30.2	46.7	5	0.040	0.98	104	17980	5	0.221	0.706	**1.334**	**1.986**	0.372	0.372	NA
2/7/25 23:00	BETA ICV	1000			0.0	29.1	46.1	6	0.033	0.96	5	16379	5	0.208	0.709	**1.344**	**1.999**	0.403	0.403	NA
2/7/25 15:51	BETA ICV	1000			0.0	30.5	47.1	7	0.097	0.93	30	18538	5	0.340	0.681	**1.563**	**1.933**	0.363	0.363	NA
2/7/25 15:51	BETA ICV	1000			0.0	29.1	46.1	8	0.051	1.78	12	18208	5	0.258	0.965	**1.442**	**2.511**	0.391	0.391	NA
2/7/25 15:52	BETA ICV	1000			0.0	29.5	47.1	9	0.057	1.09	13	17522	5	0.270	0.740	**1.455**	**2.049**	0.400	NA	0.400
2/7/25 15:52	BETA ICV	1000			0.0	29.7	46.7	10	0.038	1.57	15	17298	5	0.218	0.895	**1.345**	**2.364**	0.402	NA	0.402
2/7/25 15:52	BETA ICV	1000			0.0	29.8	47.5	11	0.051	1.37	29	18336	5	0.252	0.822	**1.408**	**2.208**	0.397	NA	0.397
2/7/25 23:00	BETA ICV	1000			0.0	29.7	46.5	12	0.043	1.05	51	17115	5	0.233	0.732	**1.375**	**2.041**	0.396	NA	0.396
2/7/25 23:01	BETA ICV	1000			0.0	30.2	47.1	13	0.122	1.03	15	17705	5	0.386	0.716	**1.665**	**2.002**	0.363	NA	0.363
2/7/25 15:57	BETA ICV	1000			0.0	30.4	46.7	14	0.060	1.03	105	17926	5	0.269	0.723	**1.427**	**2.021**	0.366	NA	0.366
2/7/25 15:57	BETA ICV	1000			0.0	30.4	46.4	15	0.073	1.06	25	17634	5	0.296	0.739	**1.480**	**2.055**	0.356	NA	0.356
2/7/25 15:57	BETA ICV	1000			0.0	30.3	46.5	16	0.110	1.21	118	18174	5	0.364	0.790	**1.618**	**2.157**	0.359	NA	0.359
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA

GROSS ALPHA AND GROSS BETA DATA REPORT
EPA 900/9310
0

SAMPLE ID	GROSS ALPHA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	GROSS BETA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	PREP DATE	ANALYSIS DATE	True Value: 3547.52 % Recov:
BETA ICV	3.989	2.259	#DIV/0!	0.311	1.566	1.315	3506.965	51.585	#DIV/0!	0.897	2.380	1.510	2/7/25 0:00	2/7/25 23:54	0.98857
BETA ICV	36.591	6.444	#DIV/0!	0.297	1.474	1.229	3509.413	50.904	#DIV/0!	0.912	2.393	1.512	2/7/25 0:00	2/7/25 15:51	0.98926
BETA ICV	2.375	1.714	#DIV/0!	0.234	1.382	1.235	3455.593	50.930	#DIV/0!	0.867	2.315	1.471	2/7/25 0:00	2/7/25 15:51	0.97409
BETA ICV	2.787	1.908	#DIV/0!	0.280	1.517	1.312	3514.386	51.220	#DIV/0!	0.885	2.346	1.488	2/7/25 0:00	2/7/25 15:51	0.99066
BETA ICV	30.947	5.965	#DIV/0!	0.221	1.334	1.202	3458.447	50.682	#DIV/0!	0.706	1.986	1.287	2/7/25 0:00	2/7/25 23:54	0.97489
BETA ICV	1.497	1.379	#DIV/0!	0.208	1.344	1.239	3197.490	48.997	#DIV/0!	0.709	1.999	1.297	2/7/25 0:00	2/7/25 23:00	0.90133
BETA ICV	8.709	3.193	#DIV/0!	0.340	1.563	1.263	3545.355	51.086	#DIV/0!	0.681	1.933	1.257	2/7/25 0:00	2/7/25 15:51	0.99939
BETA ICV	3.631	2.121	#DIV/0!	0.258	1.442	1.262	3559.394	51.752	#DIV/0!	0.965	2.511	1.582	2/7/25 0:00	2/7/25 15:51	1.00335
BETA ICV	3.886	2.183	#DIV/0!	0.270	1.455	1.256	3349.249	49.630	#DIV/0!	0.740	2.049	1.320	2/7/25 0:00	2/7/25 15:52	0.94411
BETA ICV	4.488	2.315	#DIV/0!	0.218	1.345	1.219	3337.178	49.783	#DIV/0!	0.895	2.364	1.497	2/7/25 0:00	2/7/25 15:52	0.94071
BETA ICV	8.677	3.200	#DIV/0!	0.252	1.408	1.232	3475.499	50.366	#DIV/0!	0.822	2.208	1.406	2/7/25 0:00	2/7/25 15:52	0.9797
BETA ICV	15.416	4.258	#DIV/0!	0.233	1.375	1.228	3308.194	49.644	#DIV/0!	0.732	2.041	1.318	2/7/25 0:00	2/7/25 23:00	0.93254
BETA ICV	4.296	2.312	#DIV/0!	0.386	1.665	1.307	3382.042	49.855	#DIV/0!	0.716	2.002	1.294	2/7/25 0:00	2/7/25 23:01	0.95335
BETA ICV	31.075	5.969	#DIV/0!	0.269	1.427	1.224	3448.113	50.608	#DIV/0!	0.723	2.021	1.306	2/7/25 0:00	2/7/25 15:57	0.97198
BETA ICV	7.301	2.925	#DIV/0!	0.296	1.480	1.238	3420.760	50.538	#DIV/0!	0.739	2.055	1.326	2/7/25 0:00	2/7/25 15:57	0.96427
BETA ICV	34.884	6.338	#DIV/0!	0.364	1.618	1.287	3514.643	51.244	#DIV/0!	0.790	2.157	1.382	2/7/25 0:00	2/7/25 15:57	0.99073
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	

G542 Unit 4
Calibration 07/24

	High Voltage	Changed?	Chi Sq Passed?	Notes
A Drawer	1760	(Y)/N	(Y)/N	
B Drawer	1760	(Y)/N	(Y)/N	
C Drawer	1780	(Y)/N	(Y)/N	
D Drawer	1760	(Y)/N	(Y)/N	4D-4 OOS

Comments:

Collected by: _____ Date: 7/26/24

Approved by: _____ Date: 7/29/24

Detector Names Unit 4:

Numerical:	Instrument:	PACE:
1	1A	4A-1
2	1B	4A-2
3	1C	4A-3
4	1D	4A-4
5	2A	4B-1
6	2B	4B-2
7	2C	4B-3
8	2D	4B-4
9	3A	4C-1
10	3B	4C-2
11	3C	4C-3
12	3D	4C-4
13	4A	4D-1
14	4B	4D-2
15	4C	4D-3
16	4D	4D-4

Standards Used:

23F04840	23F04832	23F04838	23F04831
23F04828	23F04839	23F04841	23F04834
23F04836	23F04835		23F04827

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer A

7/8/2024

4A-1=	Det1=	1A				4A-2=	Det2=	1B			
	Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
	1500	1336	1336	0			1500	1467	1467	0	
	1520	1697	1696	1			1520	1677	1675	2	
	1540	1834	1833	1			1540	1971	1967	4	
	1560	2130	2128	2			1560	2312	2307	5	
	1580	2358	2355	3			1580	2613	2611	2	
	1600	2553	2551	2			1600	2756	2754	2	
	1620	2828	2827	1			1620	3014	3012	2	
	1640	2960	2956	4			1640	3181	3180	1	
	1660	3156	3154	2			1660	3370	3369	1	
	1680	3252	3248	4			1680	3546	3545	1	
	1700	3283	3282	1			1700	3567	3566	1	
	1720	3321	3318	3			1720	3594	3591	3	
	1740	3391	3388	3			1740	3623	3617	6	
	1760	3443	3426	17	0.50%		1760	3716	3697	19	0.51%
	1780	3441	3411	30	0.88%		1780	3799	3754	45	1.20%
	1800	3397	3308	89			1800	3707	3614	93	
	1820	3471	3367	104			1820	3722	3601	121	
	1840	3408	3305	103			1840	3780	3681	99	
	1860	3422	3317	105			1860	3778	3655	123	
	1880	3549	3418	131			1880	3707	3605	102	
	1900	3442	3338	104			1900	3886	3766	120	
	1920	3430	3322	108			1920	3874	3739	135	
	1940	3353	3262	90			1940	3806	3687	119	
	1960	3472	3372	100			1960	3739	3620	119	
	1980	3432	3320	112			1980	3679	3576	103	
	2000	3473	3367	106			2000	3717	3584	133	
	1740	0.77%	26				1740	1.32%	48		
Slope Calc:	1760	1.45%	49				1760	0.27%	10		
	1780	2.46%	83				1780	1.75%	64		
	1800	3.25%	109				1800	1.15%	42		

4A-3=	Det3=	1C				4A-4=	Det4=	1D			
	Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
	1500	1704	1704	0			1500	1860	4860	0	
	1520	2030	2027	3			1520	2095	2094	1	
	1540	2260	2259	1			1540	2468	2468	0	
	1560	2549	2548	1			1560	2644	2644	0	
	1580	2870	2870	0			1580	2968	2968	0	
	1600	2809	2808	1			1600	3123	3121	2	
	1620	3254	3251	3			1620	3186	3185	1	
	1640	3340	3338	2			1640	3448	3448	0	
	1660	3406	3404	2			1660	3501	3501	0	
	1680	3535	3532	3			1680	3578	3577	1	
	1700	3525	3522	3			1700	3638	3636	2	
	1720	3625	3620	5			1720	3666	3664	2	
	1740	3652	3647	5			1740	3672	3670	2	
	1760	3709	3678	31	0.84%		1760	3835	3827	8	0.21%
	1780	3736	3674	62	1.69%		1780	3793	3771	22	0.58%
	1800	3746	3624	122			1800	3898	3858	40	
	1820	3725	3600	125			1820	3756	3691	65	
	1840	3662	3529	133			1840	3759	3696	63	
	1860	3816	3680	136			1860	3899	3827	72	
	1880	3921	3777	144			1880	3800	3729	71	
	1900	3782	3633	149			1900	3877	3811	66	
	1920	3803	3674	129			1920	3803	3723	80	
	1940	3848	3713	135			1940	3768	3714	54	
	1960	3653	3506	147			1960	3699	3625	74	
	1980	3697	3552	144			1980	3776	3714	62	
	2000	3785	3617	168			2000	3749	3690	59	
	1740	2.81%	102				1740	5.94%	222		
Slope Calc:	1760	0.55%	20				1760	0.72%	27		
	1780	3.25%	118				1780	0.69%	26		
	1800	0.06%	2				1800	0.00%	0		

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer B

7/8/2024

4B-1=	Det5=	2A				4B-2=	Det6=	2B				4B-3=	Det7=	2C				4B-4=	Det8=	2D			
	Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
	1500	1299	1299	0			1500	1750	1750	0			1500	2332	2331	1			1500	1889	1889	0	
	1520	1515	1513	2			1520	1997	1996	1			1520	2596	2594	2			1520	2196	2196	0	
	1540	1675	1673	2			1540	2351	2351	0			1540	2973	2971	2			1540	2391	2390	1	
	1560	1965	1964	1			1560	2654	2652	2			1560	3164	3164	0			1560	2690	2689	1	
	1580	2414	2413	1			1580	2897	2896	1			1580	3349	3348	1			1580	2790	2789	1	
	1600	2395	2394	1			1600	3146	3143	3			1600	3462	3460	2			1600	2991	2991	0	
	1620	2795	2795	0			1620	3228	3226	2			1620	3508	3506	2			1620	2117	3114	3	
	1640	3041	3041	0			1640	3449	3448	1			1640	3512	3510	2			1640	2140	3139	1	
	1660	3324	3321	3			1660	3371	3370	1			1660	3679	3676	3			1660	3223	3221	2	
	1680	3414	3412	2			1680	3636	3635	1			1680	3705	3705	0			1680	3376	3374	2	
	1700	3425	3423	2			1700	3602	3599	3			1700	3658	3652	6			1700	3257	3255	2	
	1720	3565	3564	1			1720	3702	3701	1			1720	3793	3790	3			1720	3346	3335	11	
	1740	3630	3629	1			1740	3639	3636	3			1740	3761	3742	19			1740	3428	3410	18	
	1760	3548	3544	4	0.11%		1760	3679	3675	4	0.11%		1760	3860	3791	69	1.82%		1760	3405	3366	39	1.16%
	1780	3707	3696	11	0.30%		1780	3753	3740	13	0.35%		1780	3873	3768	105	2.79%		1780	3394	3301	93	2.82%
	1800	3658	3633	25			1800	3815	3778	37			1800	3819	3651	168			1800	3539	3385	153	
	1820	3652	3617	35			1820	3802	3766	36			1820	3869	3654	215			1820	3475	3296	179	
	1840	3786	3753	33			1840	3842	3798	44			1840	3828	3605	223			1840	3395	3234	161	
	1860	3621	3588	33			1860	3774	3736	38			1860	3884	3687	197			1860	3312	3133	178	
	1880	3606	3575	31			1880	3851	3806	45			1880	3898	3670	228			1880	3457	3275	181	
	1900	3692	3654	38			1900	3862	3810	52			1900	3896	3726	169			1900	3401	3236	165	
	1920	3745	3712	33			1920	3769	3735	34			1920	3793	3626	167			1920	3484	3305	179	
	1940	3704	3670	34			1940	3822	3777	45			1940	3961	3756	205			1940	3396	3202	193	
	1960	3802	3768	34			1960	3744	3696	48			1960	3814	3628	185			1960	3585	3387	198	
	1980	3729	3696	33			1980	3968	3925	43			1980	3845	3638	207			1980	3491	3319	172	
	2000	3644	3614	30			2000	3765	3724	41			2000	3847	3669	178			2000	3391	3216	175	
Slope Calc:	1760	1.47%	53				1760	1.75%	65				1760	3.64%	136				1760	1.16%	39		
	1780	3.40%	124				1780	4.34%	162				1780	3.70%	137				1780	5.28%	176		
	1800	1.21%	44				1800	1.63%	61				1800	2.82%	104				1800	7.09%	233		
	1820	3.32%	121				1820	1.75%	66				1820	2.67%	98				1820	0.79%	26		

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer C

7/8/2024

4C-1= Det9= 3A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	754	754	0	
1520	952	952	0	
1540	1206	1206	0	
1560	1415	1414	1	
1580	1643	1643	0	
1600	1835	1835	0	
1620	2197	2193	4	
1640	2385	2385	0	
1660	2566	2566	0	
1680	2789	2787	2	
1700	2837	2835	2	
1720	2882	2881	1	
1740	3144	3142	2	
1760	3290	3286	4	0.12%
1780	3183	3181	2	0.06%
1800	3151	3146	5	
1820	3295	3288	7	
1840	3358	3344	14	
1860	3185	3170	15	
1880	3225	3214	11	
1900	3241	3228	13	
1920	3277	3266	11	
1940	3384	3374	10	
1960	3428	3419	9	
1980	3319	3310	9	
2000	3284	3276	8	

	1740	14.57%	453	
	1760	14.55%	463	
Slope Calc:	1780	0.87%	28	
	1800	2.23%	72	
	1820	1.46%	47	
	1840	3.71%	120	

4C-2= Det10= 3B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1273	1273	0	
1520	1519	1519	0	
1540	1856	1856	0	
1560	2167	2166	1	
1580	2332	2330	2	
1600	2527	2527	0	
1620	2853	2852	1	
1640	2981	2980	1	
1660	3165	3162	3	
1680	3302	3300	2	
1700	3413	3411	2	
1720	3431	3428	3	
1740	3578	3573	5	
1760	3579	3571	8	0.22%
1780	3608	3579	29	0.81%
1800	3679	3613	66	
1820	3634	3563	71	
1840	3677	3597	80	
1860	3655	3581	74	
1880	3551	3478	73	
1900	3807	3728	79	
1920	3630	3565	65	
1940	3606	3549	57	
1960	3631	3554	77	
1980	3728	3664	64	
2000	3811	3744	67	

	1740	4.30%	152	
	1760	4.75%	169	
Slope Calc:	1780	0.22%	8	
	1800	2.61%	93	
	1820	4.15%	149	
	1840	1.34%	48	

4C-3= Det11= 3C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1365	1363	2	
1520	1608	1606	2	
1540	1897	1896	1	
1560	2182	2182	0	
1580	2496	2495	1	
1600	2604	2603	1	
1620	2792	2789	3	
1640	3135	3135	0	
1660	3276	3274	2	
1680	3434	3429	5	
1700	3562	3559	3	
1720	3460	3456	4	
1740	3628	3620	8	
1760	3625	3610	15	0.42%
1780	3662	3635	27	0.74%
1800	3680	3622	58	
1820	3653	3563	90	
1840	3607	3528	79	
1860	3705	3611	94	
1880	3646	3563	83	
1900	3697	3626	71	
1920	3713	3638	75	
1940	3709	3620	89	
1960	3681	3618	63	
1980	3648	3569	79	
2000	3649	3582	67	

	1740	0.11%	4	
	1760	2.01%	72	
Slope Calc:	1780	0.25%	9	
	1800	1.31%	47	
	1820	0.25%	9	
	1840	0.45%	16	

4C-4= Det12= 3D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1435	1435	0	
1520	1685	1682	3	
1540	1870	1870	0	
1560	2204	2204	0	
1580	2516	2515	1	
1600	2767	2766	1	
1620	2954	2953	1	
1640	3097	3096	1	
1660	3337	3334	3	
1680	3411	3405	6	
1700	3485	3483	2	
1720	3548	3545	3	
1740	3629	3625	4	
1760	3562	3553	9	0.25%
1780	3650	3607	43	1.19%
1800	3660	3581	79	
1820	3654	3541	113	
1840	3673	3566	107	
1860	3614	3507	107	
1880	3810	3705	105	
1900	3558	3473	85	
1920	3709	3604	105	
1940	3688	3584	104	
1960	3693	3596	97	
1980	3518	3425	93	
2000	3671	3555	116	

	1740	1.63%	58	
	1760	0.59%	21	
Slope Calc:	1780	3.31%	118	
	1800	4.25%	152	
	1820	3.76%	134	
	1840	0.64%	23	

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer D

7/8/2024

4D-1= Det13= 4A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1897	1896	1	
1520	2136	2136	0	
1540	2462	2460	2	
1560	2698	2698	0	
1580	2958	2958	0	
1600	3107	3106	1	
1620	3250	3247	3	
1640	3353	3349	4	
1660	3472	3471	1	
1680	3517	3514	3	
1700	3561	3559	2	
1720	3496	3493	3	
1740	3642	3629	13	
1760	3789	3764	25	0.66%
1780	3656	3578	78	2.18%
1800	3735	3608	127	3.52%
1820	3689	3529	160	4.53%
1840	3656	3493	163	
1860	3797	3623	174	
1880	3792	3611	181	
1900	3877	3715	162	
1920	3765	3612	153	
1940	3729	3556	173	
1960	3800	3617	183	
1980	3664	3489	175	
2000	3808	3634	174	

1740	1.4%	49	
1760	1.0%	36	
1780	3.8%	136	
1800	3.9%	141	
1820	0.9%	33	

4D-2= Det14= 4B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2096	2095	1	
1520	2391	2390	1	
1540	2719	2717	2	
1560	2989	2987	2	
1580	3092	3090	2	
1600	3234	3233	1	
1620	3313	3312	1	
1640	3557	3555	2	
1660	3596	3595	1	
1680	3634	3631	3	
1700	3809	3806	3	
1720	3630	3630	0	
1740	3778	3772	6	
1760	3724	3707	17	0.46%
1780	3803	3770	33	0.88%
1800	3818	3735	83	2.22%
1820	3819	3733	86	2.30%
1840	3696	3598	98	
1860	3848	3776	72	
1880	3788	3683	105	
1900	3860	3780	80	
1920	3799	3712	87	
1940	3845	3770	75	
1960	3773	3683	90	
1980	3901	3812	89	
2000	3842	3749	93	

1740	1.9%	71	
1760	2.8%	103	
1780	4.7%	174	
1800	1.9%	69	
1820	2.3%	87	

4D-3= Det15= 4C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1493	1492	1	
1520	1702	1700	2	
1540	1975	1975	0	
1560	2257	2253	4	
1580	2523	2523	0	
1600	2755	2754	1	
1620	3046	3044	2	
1640	3158	3158	0	
1660	3442	3441	1	
1680	3476	3474	2	
1700	3402	3401	1	
1720	3574	3573	1	
1740	3664	3663	1	
1760	3563	3558	5	0.14%
1780	3708	3706	2	0.05%
1800	3735	3709	26	0.70%
1820	3768	3726	42	1.13%
1840	3818	3789	29	
1860	3777	3746	31	
1880	3822	3788	34	
1900	3773	3749	24	
1920	3713	3678	35	
1940	3703	3672	31	
1960	3722	3708	14	
1980	3695	3664	31	
2000	3706	3681	25	

1740	8.5%	308	
1760	4.2%	153	
1780	3.4%	126	
1800	5.1%	188	
1820	2.2%	82	

4D-4= Det16= 4D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	582	582	0	
1520	770	769	1	
1540	936	935	1	
1560	1205	1205	0	
1580	1398	1396	2	
1600	1576	1576	0	
1620	1732	1732	0	
1640	2073	2071	2	
1660	2339	2338	1	
1680	2576	2575	1	
1700	2719	2718	1	
1720	2868	2867	1	
1740	3051	3048	3	
1760	3223	3220	3	0.09%
1780	3258	3253	5	0.15%
1800	3307	3303	4	0.12%
1820	3243	3240	3	0.09%
1840	3348	3345	3	
1860	3358	3355	3	
1880	3310	3307	3	
1900	3351	3346	5	
1920	3311	3305	6	
1940	3275	3268	7	
1960	3268	3265	3	
1980	3271	3269	2	
2000	3396	3393	3	

1740	18.9%	585	
1760	11.7%	373	
1780	9.1%	297	
1800	4.1%	135	
1820	1.6%	54	

NOT IN SERVICE

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Sr-90
124007
ESC51613
22J11029

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	01-Jul-24
PREP:	13-Sep-22

Ao =	940.91	nCi				
N =	0.02					
T(1/2) =	28.60	years				
T =	1.85	years				
dilution =	1000.00					
A =	899.65	nCi	SR90/Y90			
A =	1997.22	dpm/ml	3994.4459	399.4446		
A =	899.65	pCi/ml	1799.3			
A =	899.65	+/-	16.207189	pCi/ml	3994.445911	
						11983.33773

Uncertainty	0.0173
Weight	0.05%
Volume (1000 ml)	0.50%

CSU 1.80%

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 14:29
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1336	1336	0
1520	1697	1696	1
1540	1834	1833	1
1560	2130	2128	2
1580	2358	2355	3
1600	2553	2551	2
1620	2828	2827	1
1640	2960	2956	4
1660	3156	3154	2
1680	3252	3248	4
1700	3283	3282	1
1720	3321	3318	3
1740	3391	3388	3
1760	3443	3426	17
1780	3441	3411	30
1800	3397	3308	89
1820	3471	3367	104
1840	3408	3305	103
1860	3422	3317	105
1880	3549	3418	131
1900	3442	3338	104
1920	3430	3322	108
1940	3353	3262	90
1960	3472	3372	100
1980	3432	3320	112
2000	3473	3367	106

Special Notes:

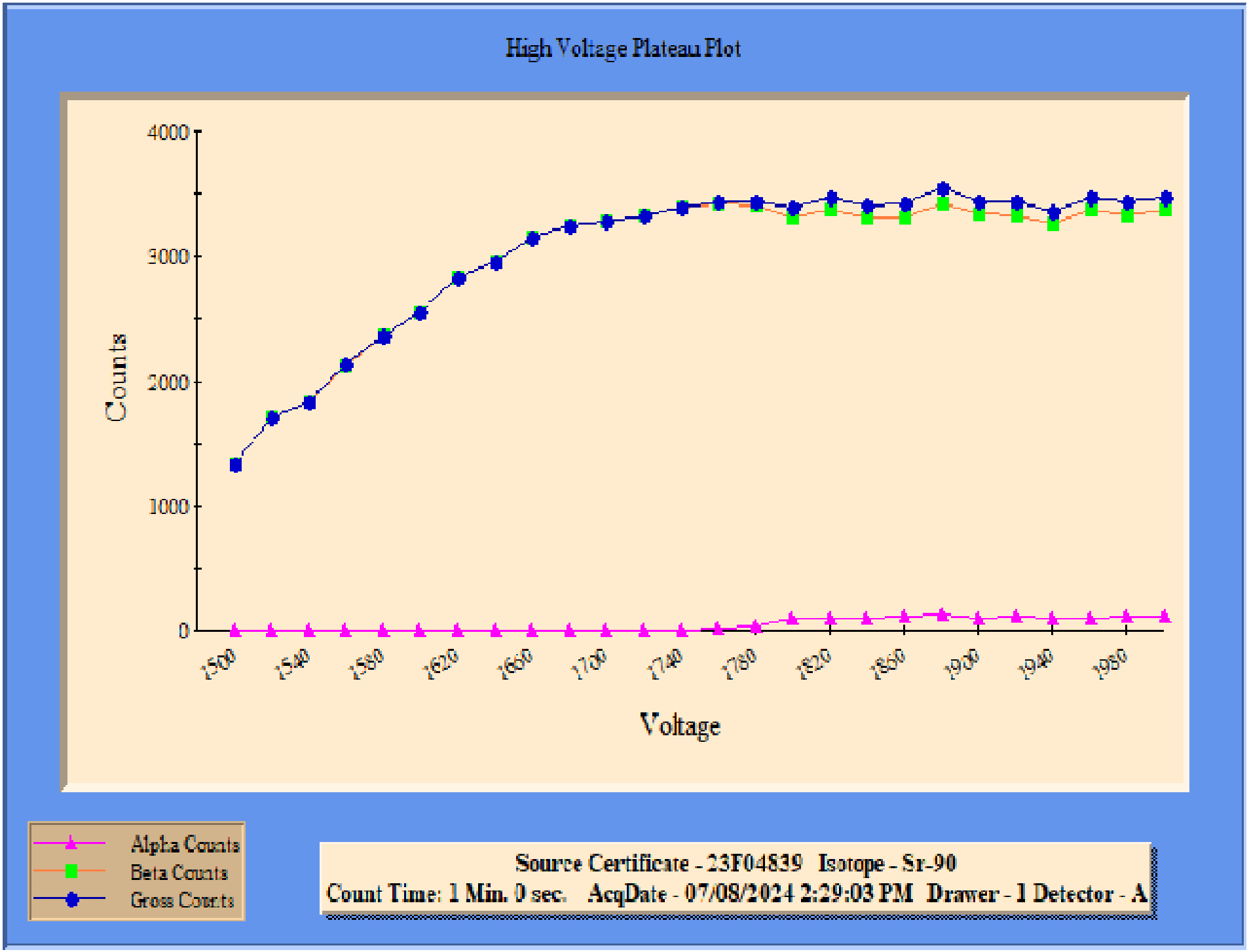
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 2:29:03 PM Drawer - 1 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 15:50
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** B **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1467	1467	0
1520	1677	1675	2
1540	1971	1967	4
1560	2312	2307	5
1580	2613	2611	2
1600	2756	2754	2
1620	3014	3012	2
1640	3181	3180	1
1660	3370	3369	1
1680	3546	3545	1
1700	3567	3566	1
1720	3594	3591	3
1740	3623	3617	6
1760	3716	3697	19
1780	3799	3754	45
1800	3707	3614	93
1820	3722	3601	121
1840	3780	3681	99
1860	3778	3655	123
1880	3707	3605	102
1900	3886	3766	120
1920	3874	3739	135
1940	3806	3687	119
1960	3739	3620	119
1980	3679	3576	103
2000	3717	3584	133

Special Notes:

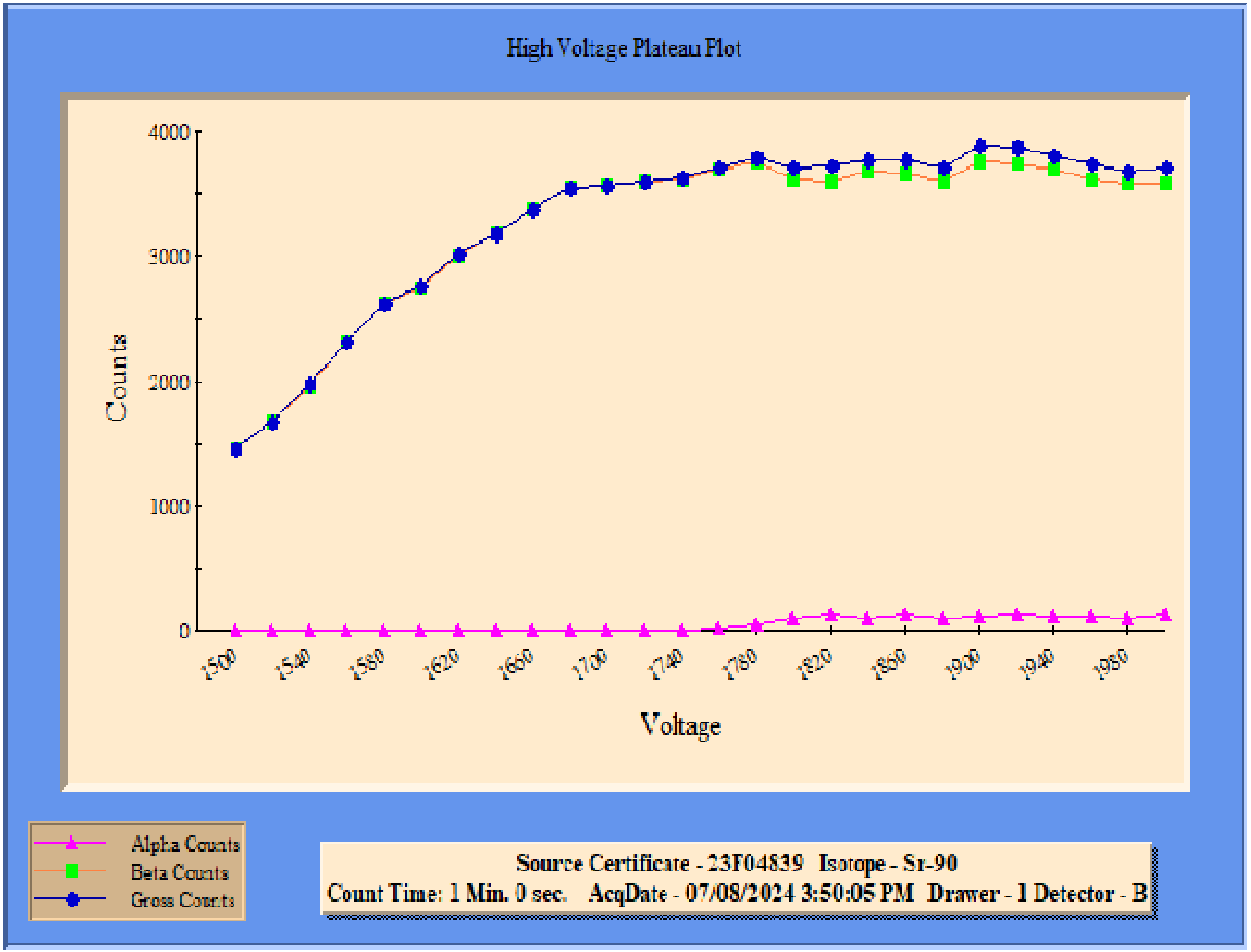
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 3:50:05 PM Drawer - 1 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 16:21
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1704	1704	0
1520	2030	2027	3
1540	2260	2259	1
1560	2549	2548	1
1580	2870	2870	0
1600	2809	2808	1
1620	3254	3251	3
1640	3340	3338	2
1660	3406	3404	2
1680	3535	3532	3
1700	3525	3522	3
1720	3625	3620	5
1740	3652	3647	5
1760	3709	3678	31
1780	3736	3674	62
1800	3746	3624	122
1820	3725	3600	125
1840	3662	3529	133
1860	3816	3680	136
1880	3921	3777	144
1900	3782	3633	149
1920	3803	3674	129
1940	3848	3713	135
1960	3653	3506	147
1980	3697	3552	144
2000	3785	3617	168

Special Notes:

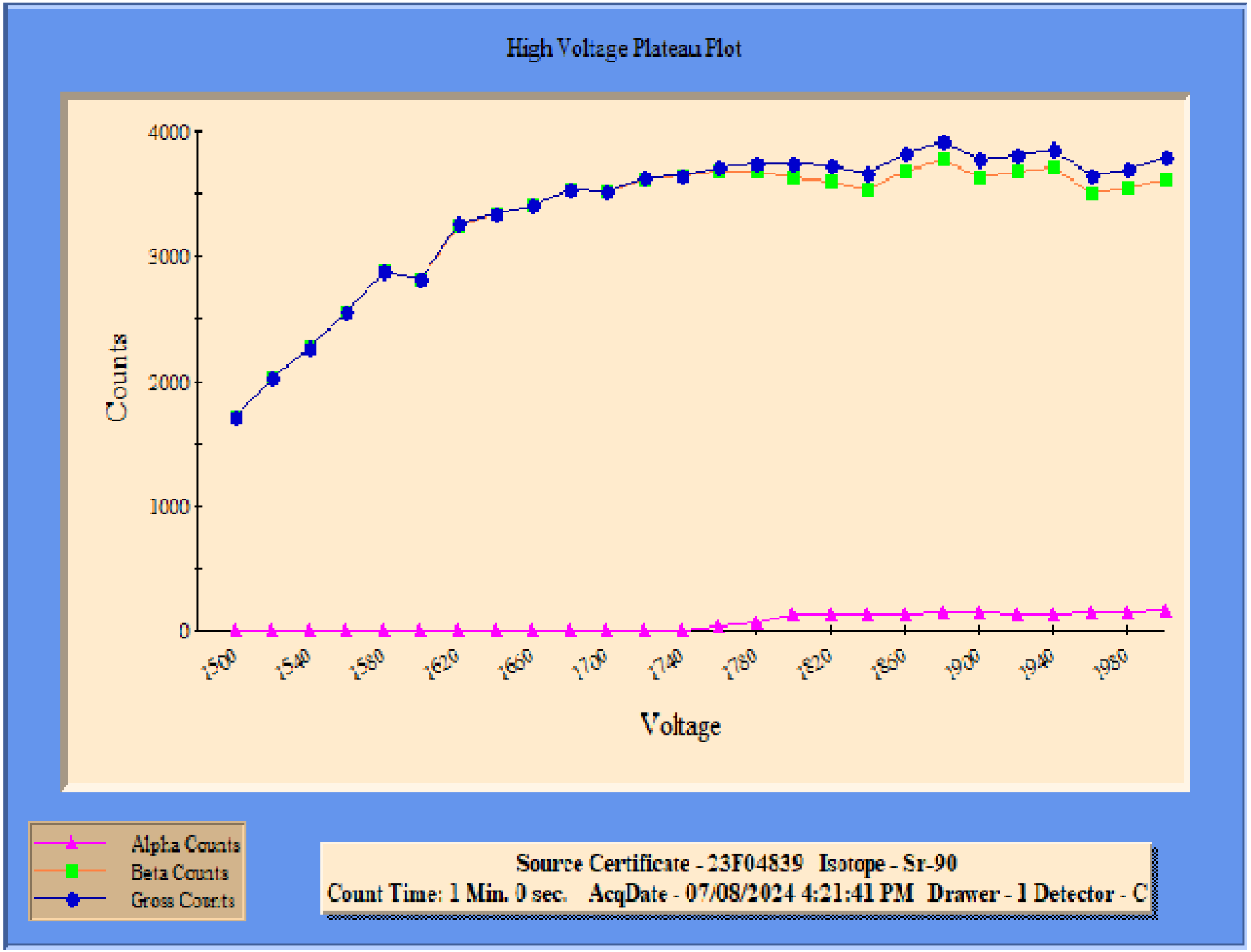
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 4:21:41 PM Drawer - 1 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 16:59
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1860	1860	0
1520	2095	2094	1
1540	2468	2468	0
1560	2644	2644	0
1580	2968	2968	0
1600	3123	3121	2
1620	3186	3185	1
1640	3448	3448	0
1660	3501	3501	0
1680	3578	3577	1
1700	3638	3636	2
1720	3666	3664	2
1740	3672	3670	2
1760	3835	3827	8
1780	3793	3771	22
1800	3898	3858	40
1820	3756	3691	65
1840	3759	3696	63
1860	3899	3827	72
1880	3800	3729	71
1900	3877	3811	66
1920	3803	3723	80
1940	3768	3714	54
1960	3699	3625	74
1980	3776	3714	62
2000	3749	3690	59

Special Notes:

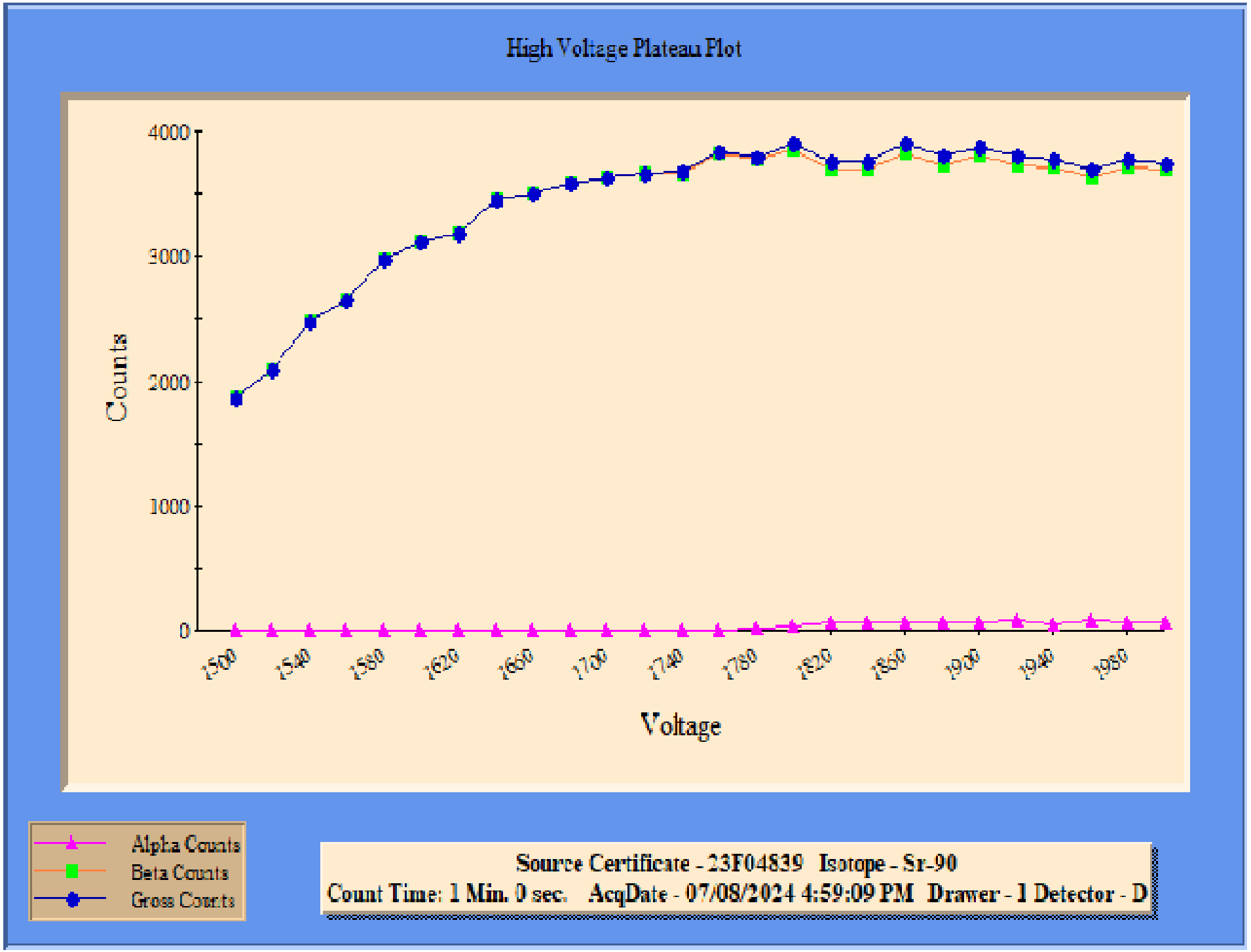
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 4:59:09 PM Drawer - 1 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 17:59
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1299	1299	0
1520	1515	1513	2
1540	1675	1673	2
1560	1965	1964	1
1580	2414	2413	1
1600	2395	2394	1
1620	2795	2795	0
1640	3041	3041	0
1660	3324	3321	3
1680	3414	3412	2
1700	3425	3423	2
1720	3565	3564	1
1740	3630	3629	1
1760	3548	3544	4
1780	3707	3696	11
1800	3658	3633	25
1820	3652	3617	35
1840	3786	3753	33
1860	3621	3588	33
1880	3606	3575	31
1900	3692	3654	38
1920	3745	3712	33
1940	3704	3670	34
1960	3802	3768	34
1980	3729	3696	33
2000	3644	3614	30

Special Notes:

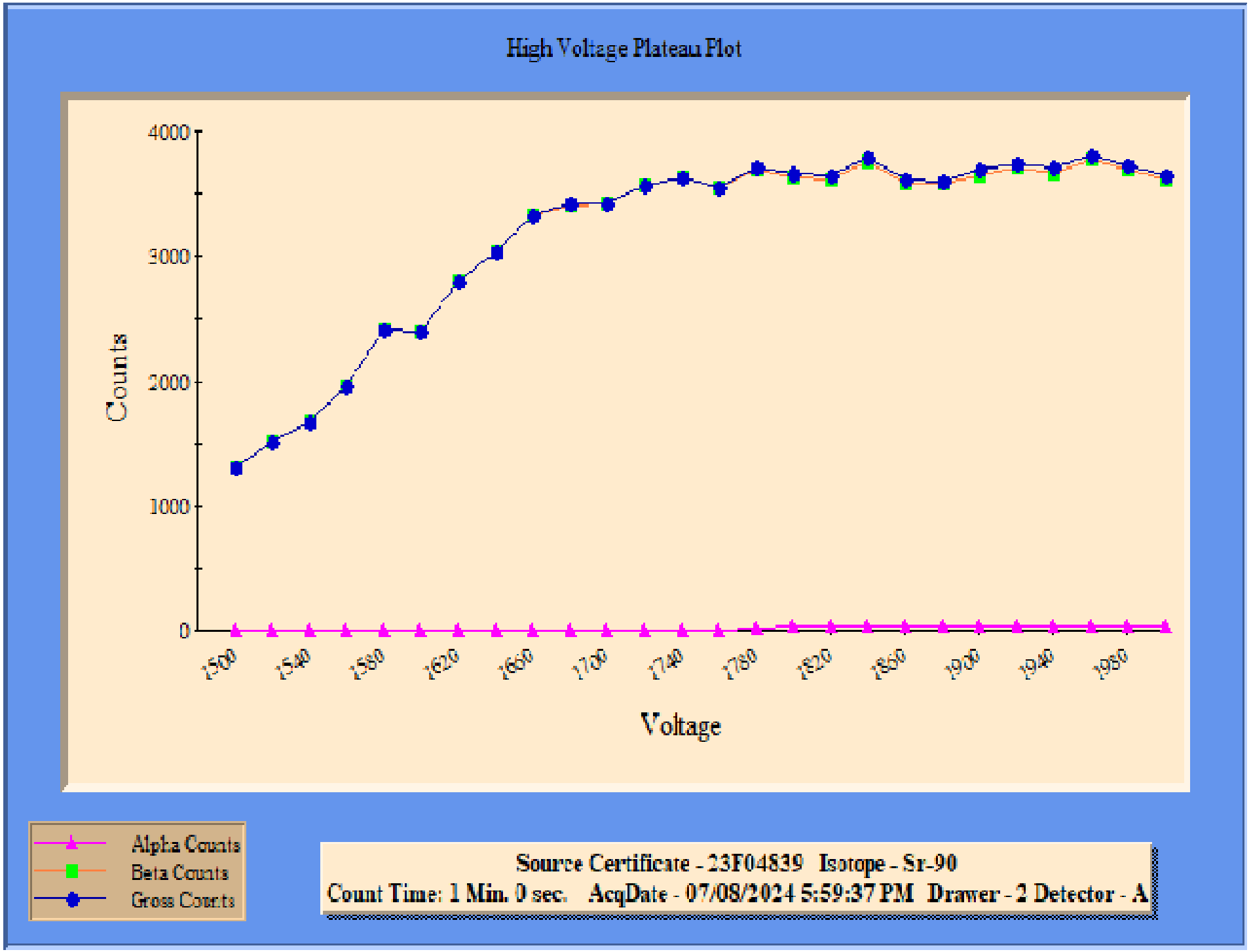
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 5:59:37 PM Drawer - 2 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 18:30
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000

Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1750	1750	0
1520	1997	1996	1
1540	2351	2351	0
1560	2654	2652	2
1580	2897	2896	1
1600	3146	3143	3
1620	3228	3226	2
1640	3449	3448	1
1660	3371	3370	1
1680	3636	3635	1
1700	3602	3599	3
1720	3702	3701	1
1740	3639	3636	3
1760	3679	3675	4
1780	3753	3740	13
1800	3815	3778	37
1820	3802	3766	36
1840	3842	3798	44
1860	3774	3736	38
1880	3851	3806	45
1900	3862	3810	52
1920	3769	3735	34
1940	3822	3777	45
1960	3744	3696	48
1980	3968	3925	43
2000	3765	3724	41

Special Notes:

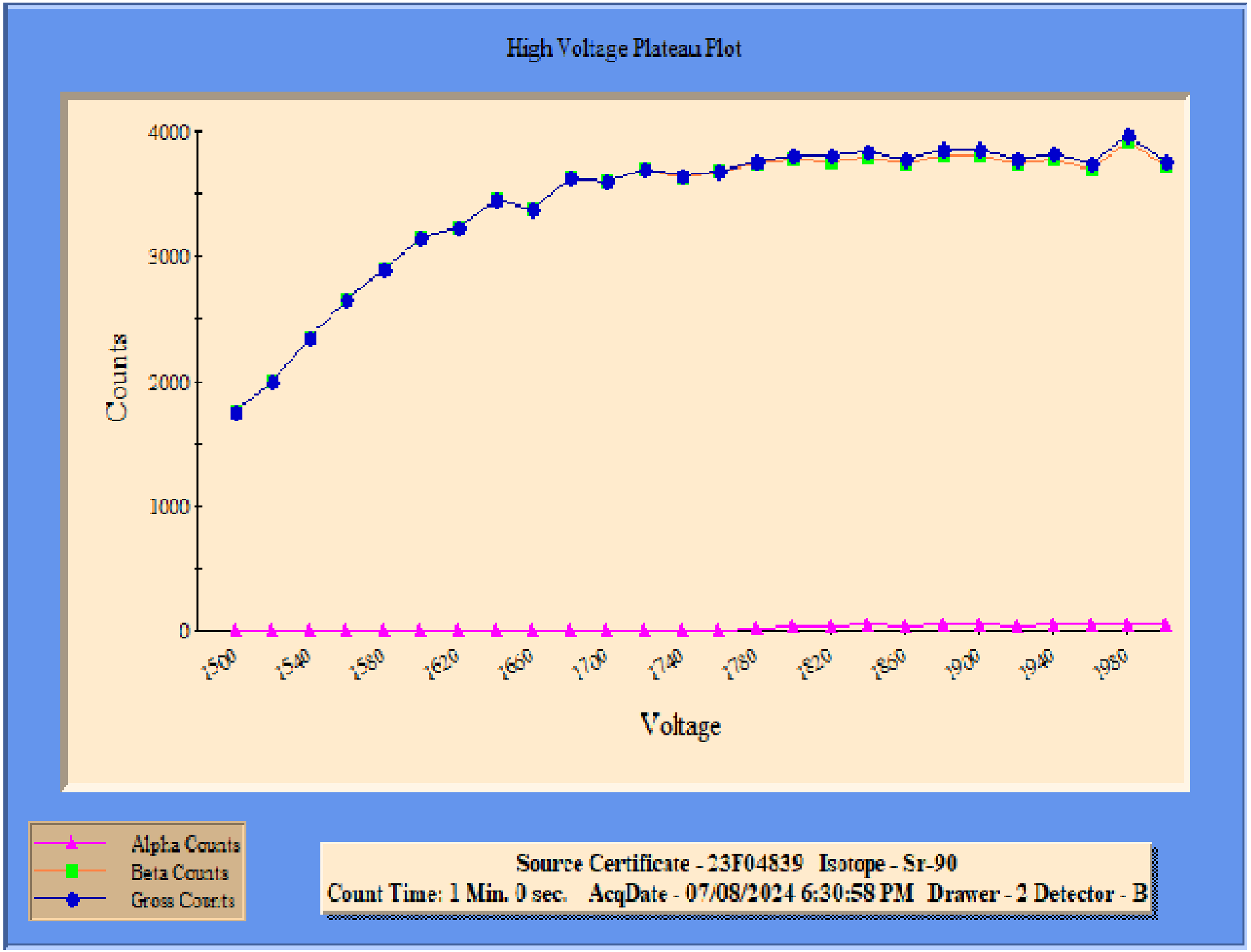
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 6:30:58 PM Drawer - 2 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 18:58
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2332	2331	1
1520	2596	2594	2
1540	2973	2971	2
1560	3164	3164	0
1580	3349	3348	1
1600	3462	3460	2
1620	3508	3506	2
1640	3512	3510	2
1660	3679	3676	3
1680	3705	3705	0
1700	3658	3652	6
1720	3793	3790	3
1740	3761	3742	19
1760	3860	3791	69
1780	3873	3768	105
1800	3819	3651	168
1820	3869	3654	215
1840	3828	3605	223
1860	3884	3687	197
1880	3898	3670	228
1900	3895	3726	169
1920	3793	3626	167
1940	3961	3756	205
1960	3814	3628	185
1980	3845	3638	207
2000	3847	3669	178

Special Notes:

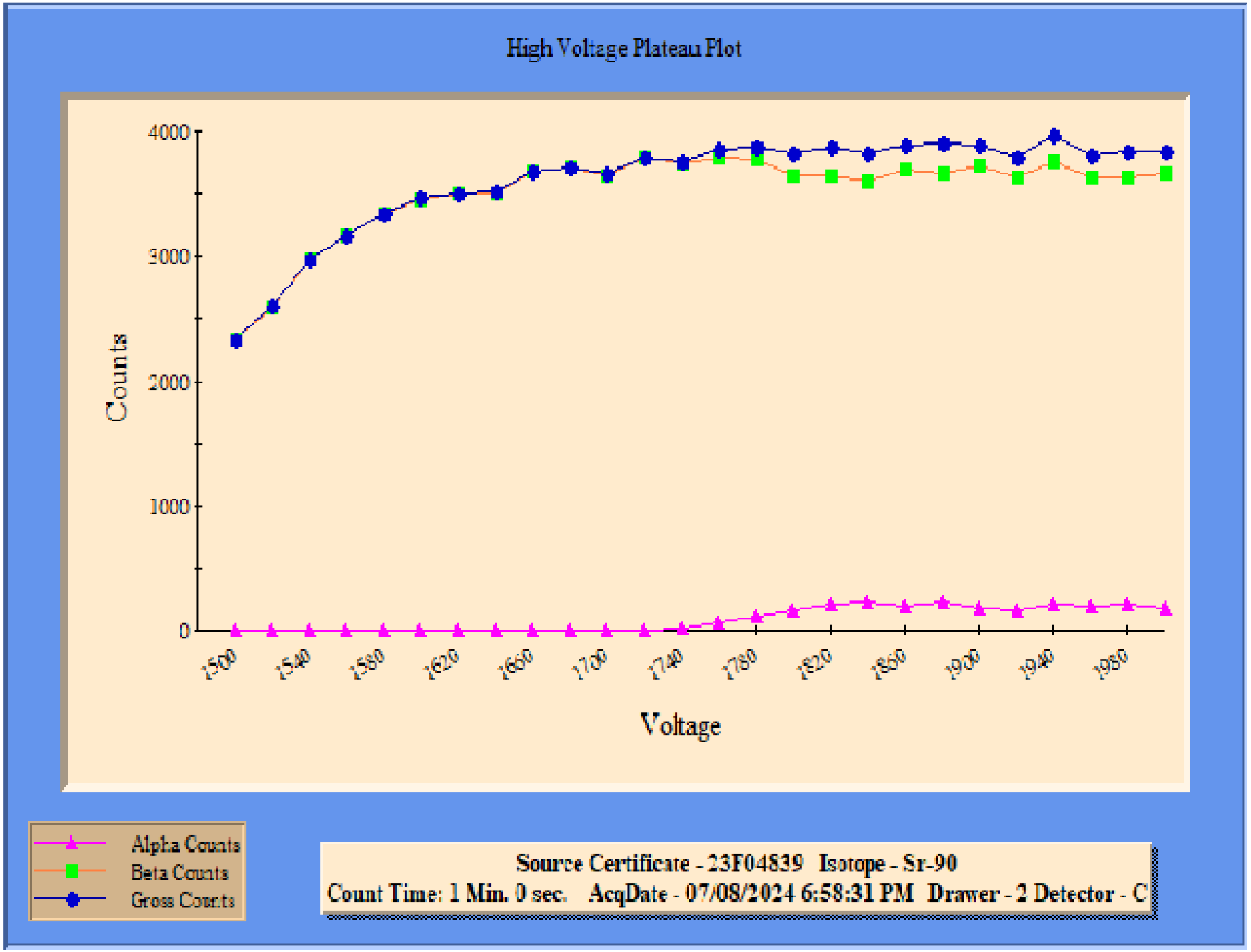
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 6:58:31 PM Drawer - 2 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 19:29
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1889	1889	0
1520	2196	2196	0
1540	2391	2390	1
1560	2690	2689	1
1580	2790	2789	1
1600	2991	2991	0
1620	3117	3114	3
1640	3140	3139	1
1660	3223	3221	2
1680	3376	3374	2
1700	3257	3255	2
1720	3346	3335	11
1740	3428	3410	18
1760	3405	3366	39
1780	3394	3301	93
1800	3539	3385	153
1820	3475	3296	179
1840	3395	3234	161
1860	3312	3133	178
1880	3457	3275	181
1900	3401	3236	165
1920	3484	3305	179
1940	3396	3202	193
1960	3585	3387	198
1980	3491	3319	172
2000	3391	3216	175

Special Notes:

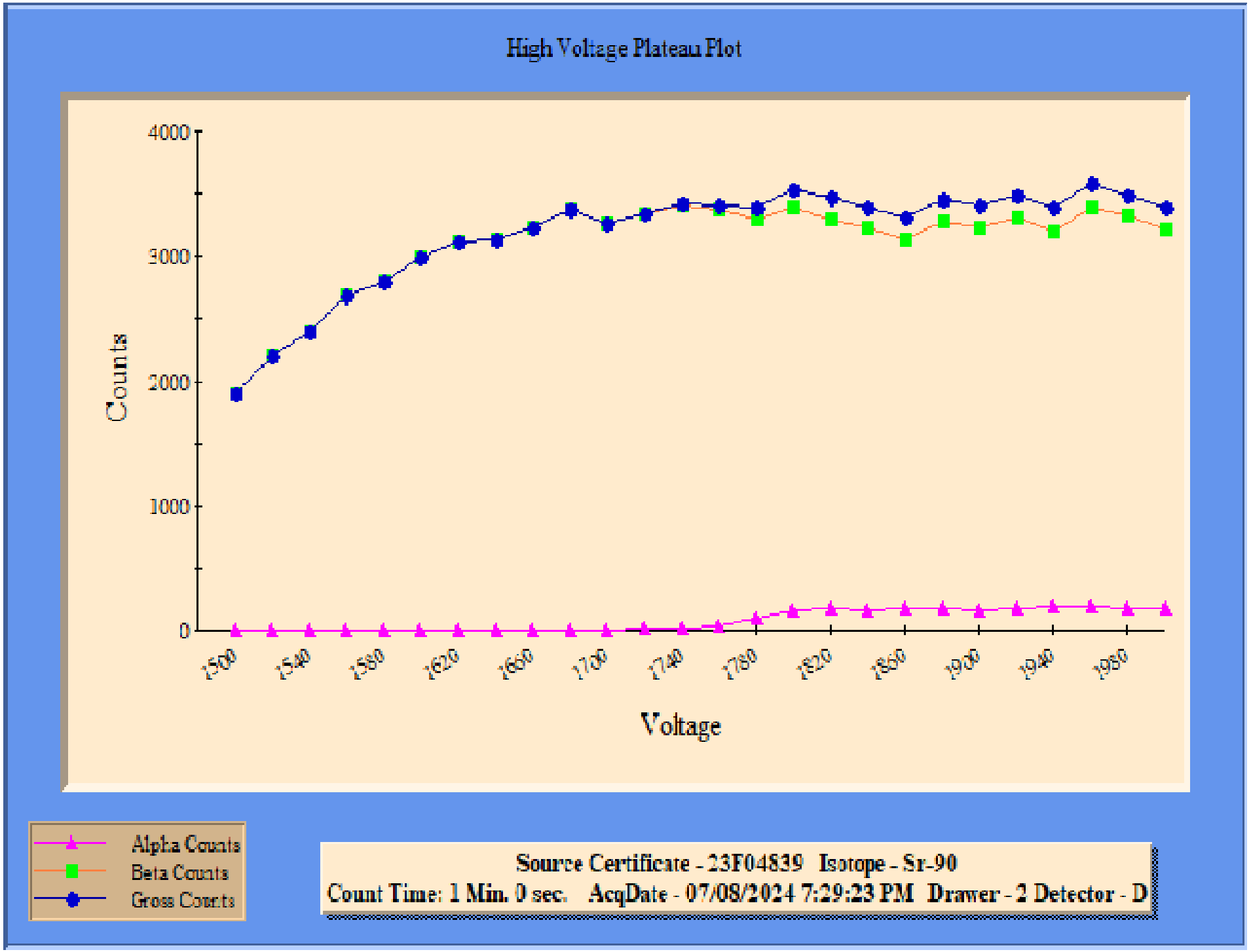
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 7:29:23 PM Drawer - 2 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 20:25
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	754	754	0
1520	952	952	0
1540	1206	1206	0
1560	1415	1414	1
1580	1643	1643	0
1600	1835	1835	0
1620	2197	2193	4
1640	2385	2385	0
1660	2566	2566	0
1680	2789	2787	2
1700	2837	2835	2
1720	2882	2881	1
1740	3144	3142	2
1760	3290	3286	4
1780	3183	3181	2
1800	3151	3146	5
1820	3295	3288	7
1840	3358	3344	14
1860	3185	3170	15
1880	3225	3214	11
1900	3241	3228	13
1920	3277	3266	11
1940	3384	3374	10
1960	3428	3419	9
1980	3319	3310	9
2000	3284	3276	8

Special Notes:

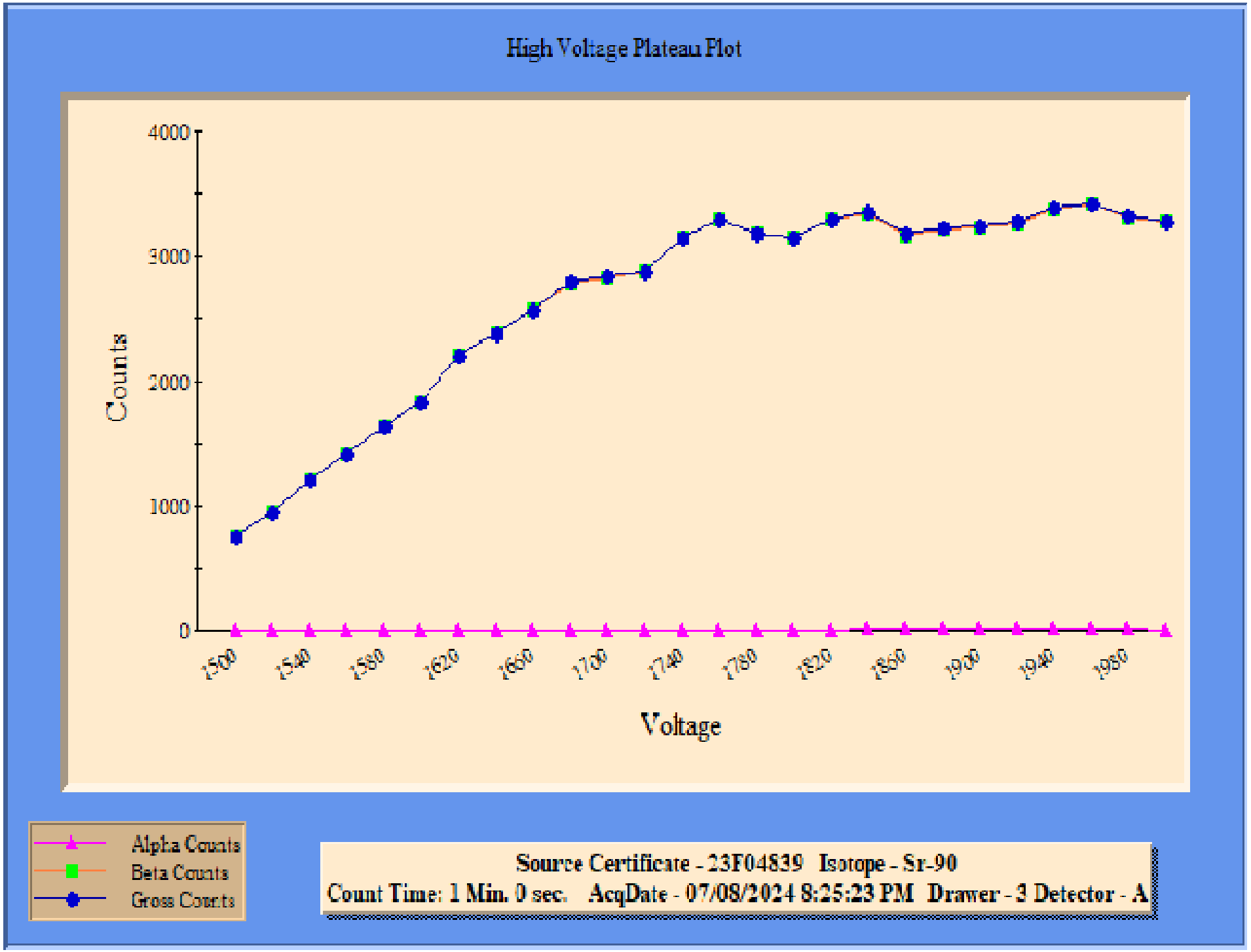
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 8:25:23 PM Drawer - 3 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 20:58
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1273	1273	0
1520	1519	1519	0
1540	1856	1856	0
1560	2167	2166	1
1580	2332	2330	2
1600	2527	2527	0
1620	2853	2852	1
1640	2981	2980	1
1660	3165	3162	3
1680	3302	3300	2
1700	3413	3411	2
1720	3431	3428	3
1740	3578	3573	5
1760	3579	3571	8
1780	3608	3579	29
1800	3679	3613	66
1820	3634	3563	71
1840	3677	3597	80
1860	3655	3581	74
1880	3551	3478	73
1900	3807	3728	79
1920	3630	3565	65
1940	3606	3549	57
1960	3631	3554	77
1980	3728	3664	64
2000	3811	3744	67

Special Notes:

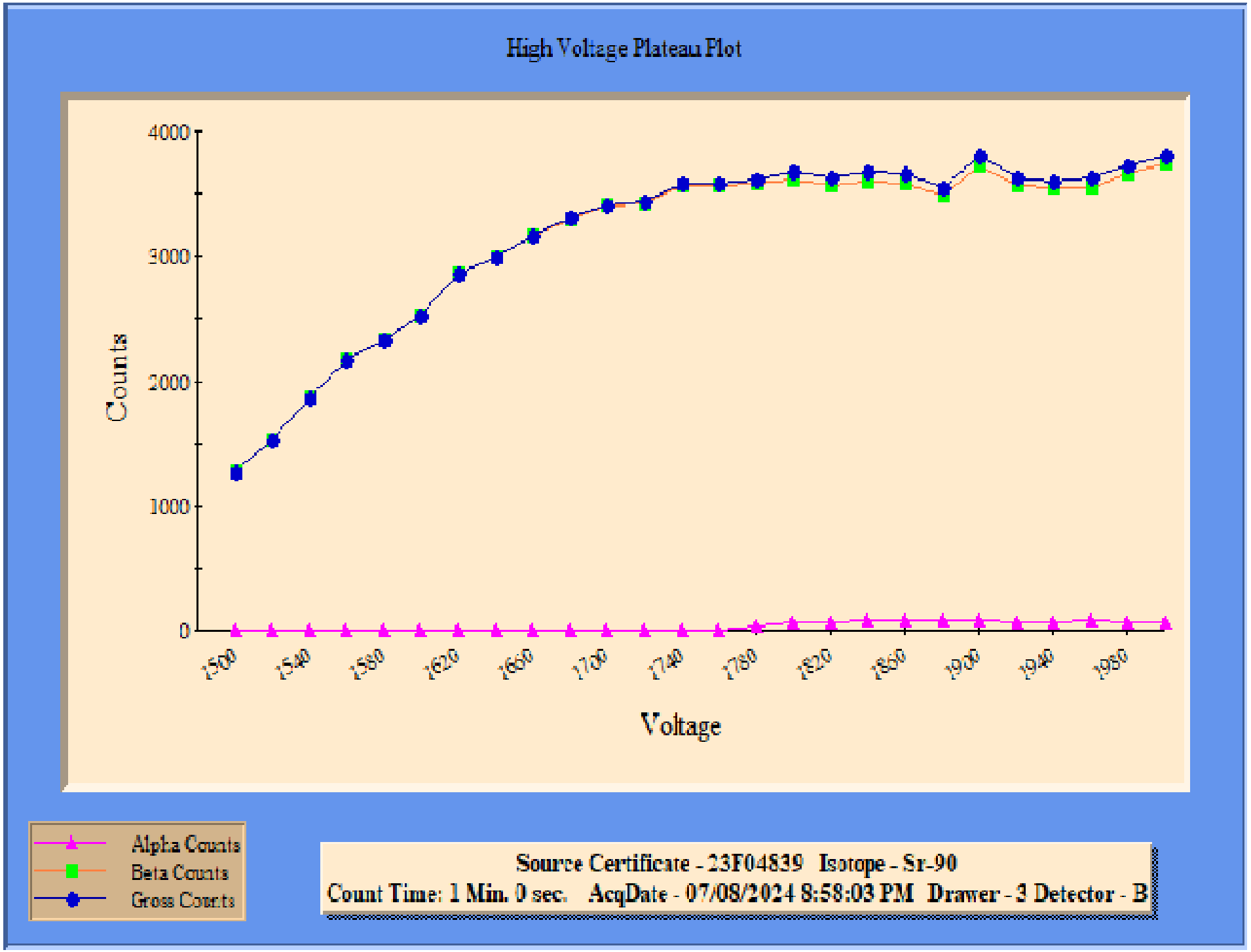
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 8:58:03 PM Drawer - 3 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 21:25
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1365	1363	2
1520	1608	1606	2
1540	1897	1896	1
1560	2182	2182	0
1580	2496	2495	1
1600	2604	2603	1
1620	2792	2789	3
1640	3135	3135	0
1660	3276	3274	2
1680	3434	3429	5
1700	3562	3559	3
1720	3460	3456	4
1740	3628	3620	8
1760	3625	3610	15
1780	3662	3635	27
1800	3680	3622	58
1820	3653	3563	90
1840	3607	3528	79
1860	3705	3611	94
1880	3646	3563	83
1900	3697	3626	71
1920	3713	3638	75
1940	3709	3620	89
1960	3681	3618	63
1980	3648	3569	79
2000	3649	3582	67

Special Notes:

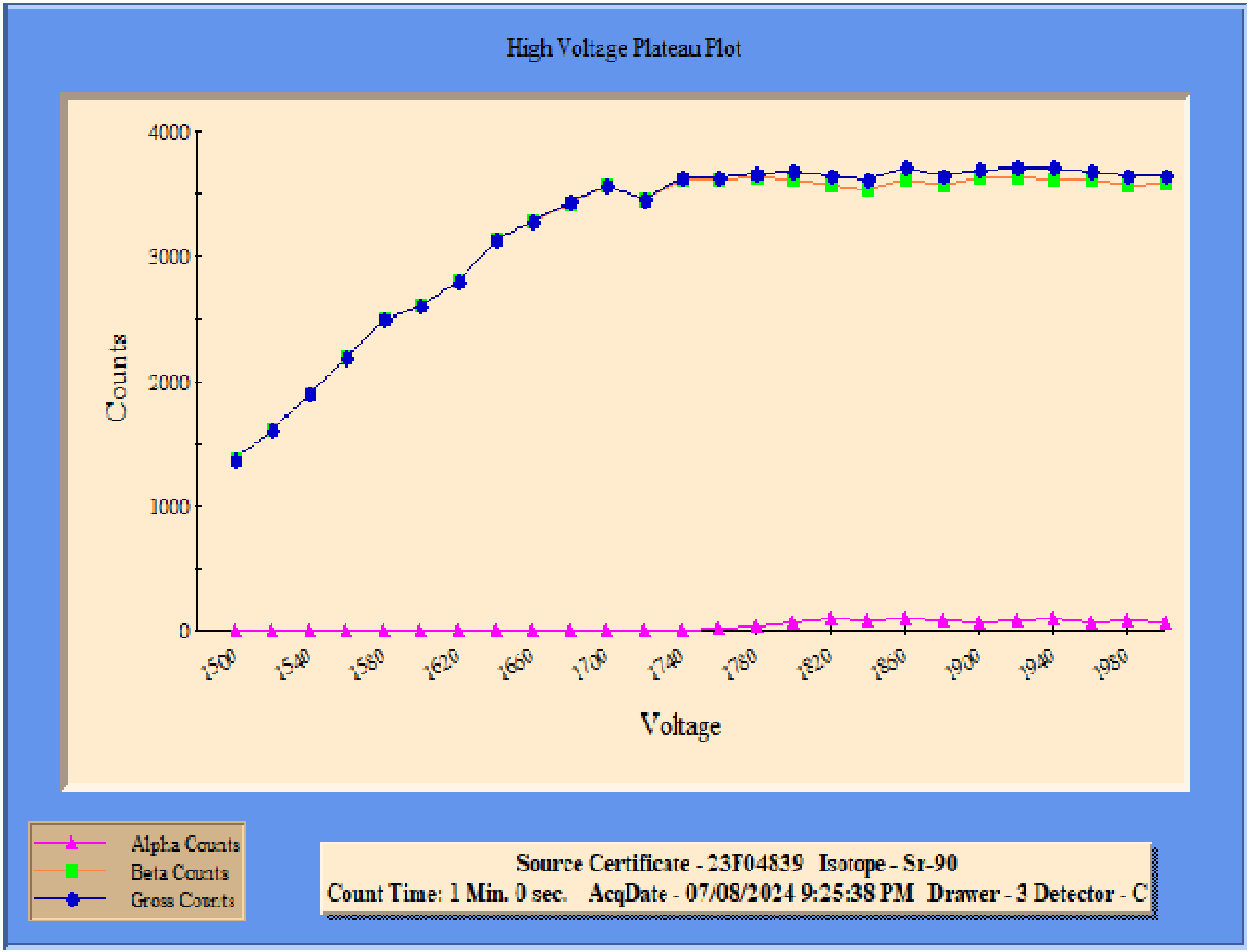
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 9:25:38 PM Drawer - 3 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 22:01
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1435	1435	0
1520	1685	1682	3
1540	1870	1870	0
1560	2204	2204	0
1580	2516	2515	1
1600	2767	2766	1
1620	2954	2953	1
1640	3097	3096	1
1660	3337	3334	3
1680	3411	3405	6
1700	3485	3483	2
1720	3548	3545	3
1740	3629	3625	4
1760	3562	3553	9
1780	3650	3607	43
1800	3660	3581	79
1820	3654	3541	113
1840	3673	3566	107
1860	3614	3507	107
1880	3810	3705	105
1900	3558	3473	85
1920	3709	3604	105
1940	3688	3584	104
1960	3693	3596	97
1980	3518	3425	93
2000	3671	3555	116

Special Notes:

Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

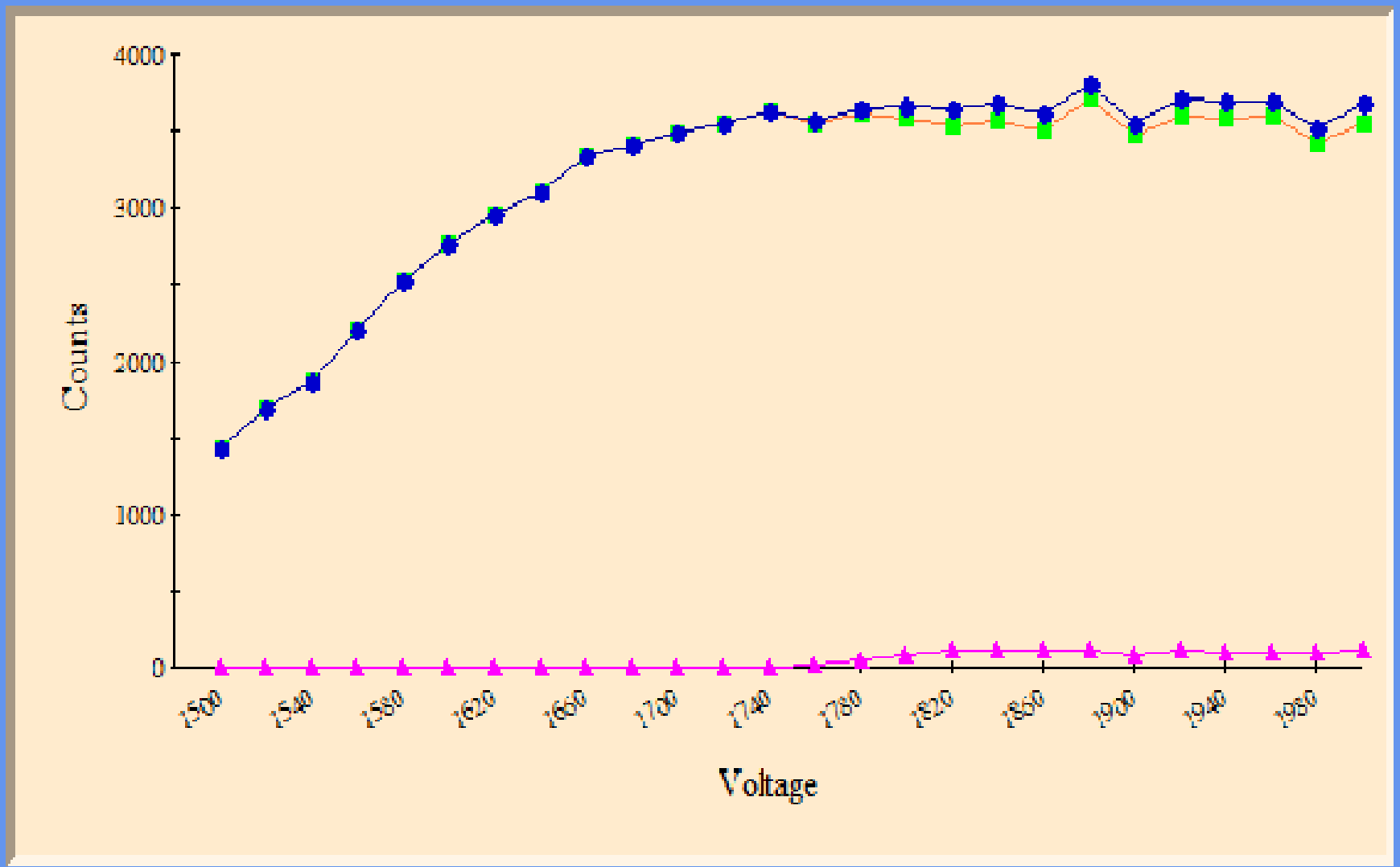
Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

High Voltage Plateau Plot



Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 10:01:42 PM Drawer - 3 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 22:31
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1897	1896	1
1520	2136	2136	0
1540	2462	2460	2
1560	2698	2698	0
1580	2958	2958	0
1600	3107	3106	1
1620	3250	3247	3
1640	3353	3349	4
1660	3472	3471	1
1680	3517	3514	3
1700	3561	3559	2
1720	3496	3493	3
1740	3642	3629	13
1760	3789	3764	25
1780	3656	3578	78
1800	3735	3608	127
1820	3689	3529	160
1840	3656	3493	163
1860	3797	3623	174
1880	3792	3611	181
1900	3877	3715	162
1920	3765	3612	153
1940	3729	3556	173
1960	3800	3617	183
1980	3664	3489	175
2000	3808	3634	174

Special Notes:

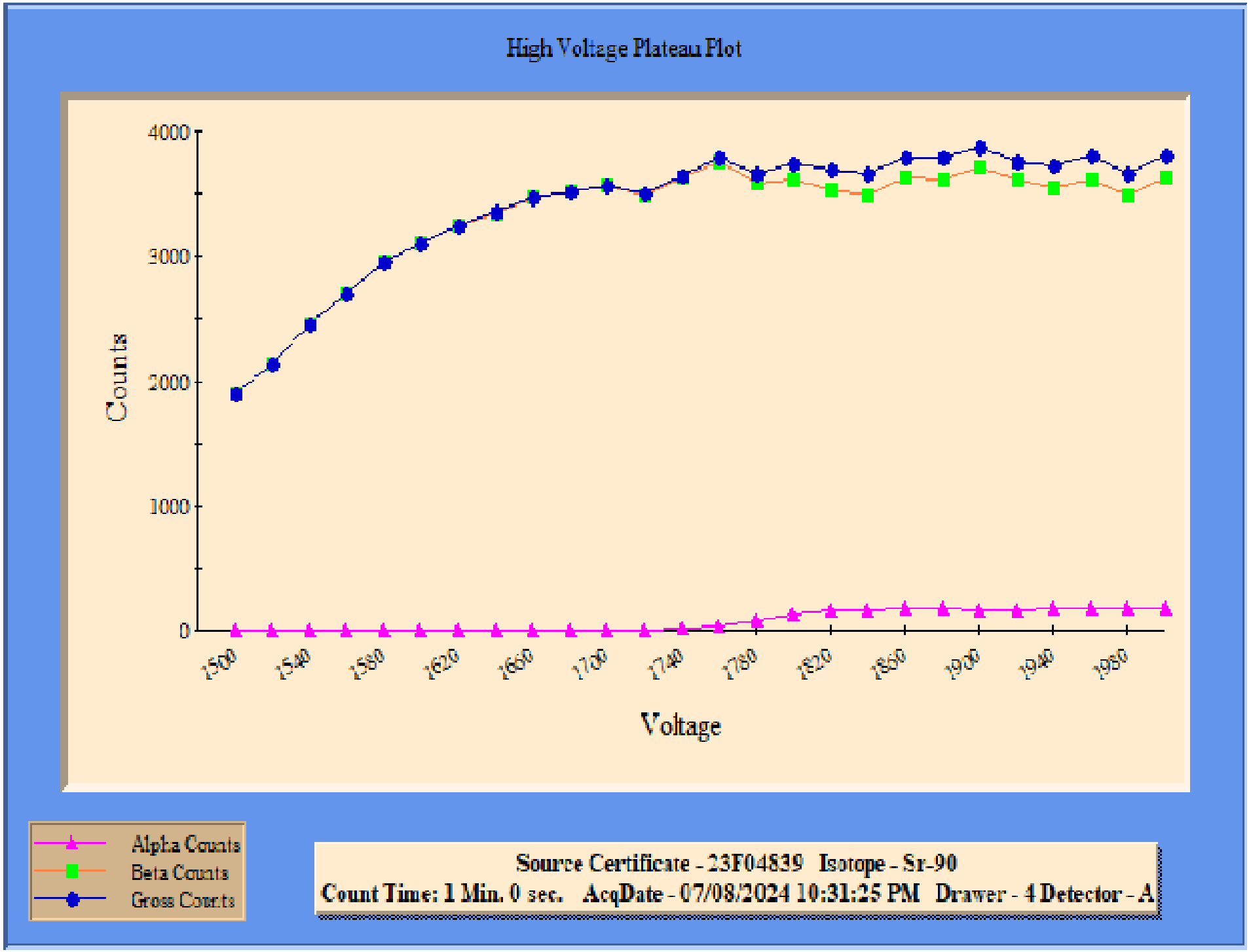
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 10:31:25 PM Drawer - 4 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 23:05
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2096	2095	1
1520	2391	2390	1
1540	2719	2717	2
1560	2989	2987	2
1580	3092	3090	2
1600	3234	3233	1
1620	3313	3312	1
1640	3557	3555	2
1660	3596	3595	1
1680	3634	3631	3
1700	3809	3806	3
1720	3630	3630	0
1740	3778	3772	6
1760	3724	3707	17
1780	3803	3770	33
1800	3818	3735	83
1820	3819	3733	86
1840	3696	3598	98
1860	3848	3776	72
1880	3788	3683	105
1900	3860	3780	80
1920	3799	3712	87
1940	3845	3770	75
1960	3773	3683	90
1980	3901	3812	89
2000	3842	3749	93

Special Notes:

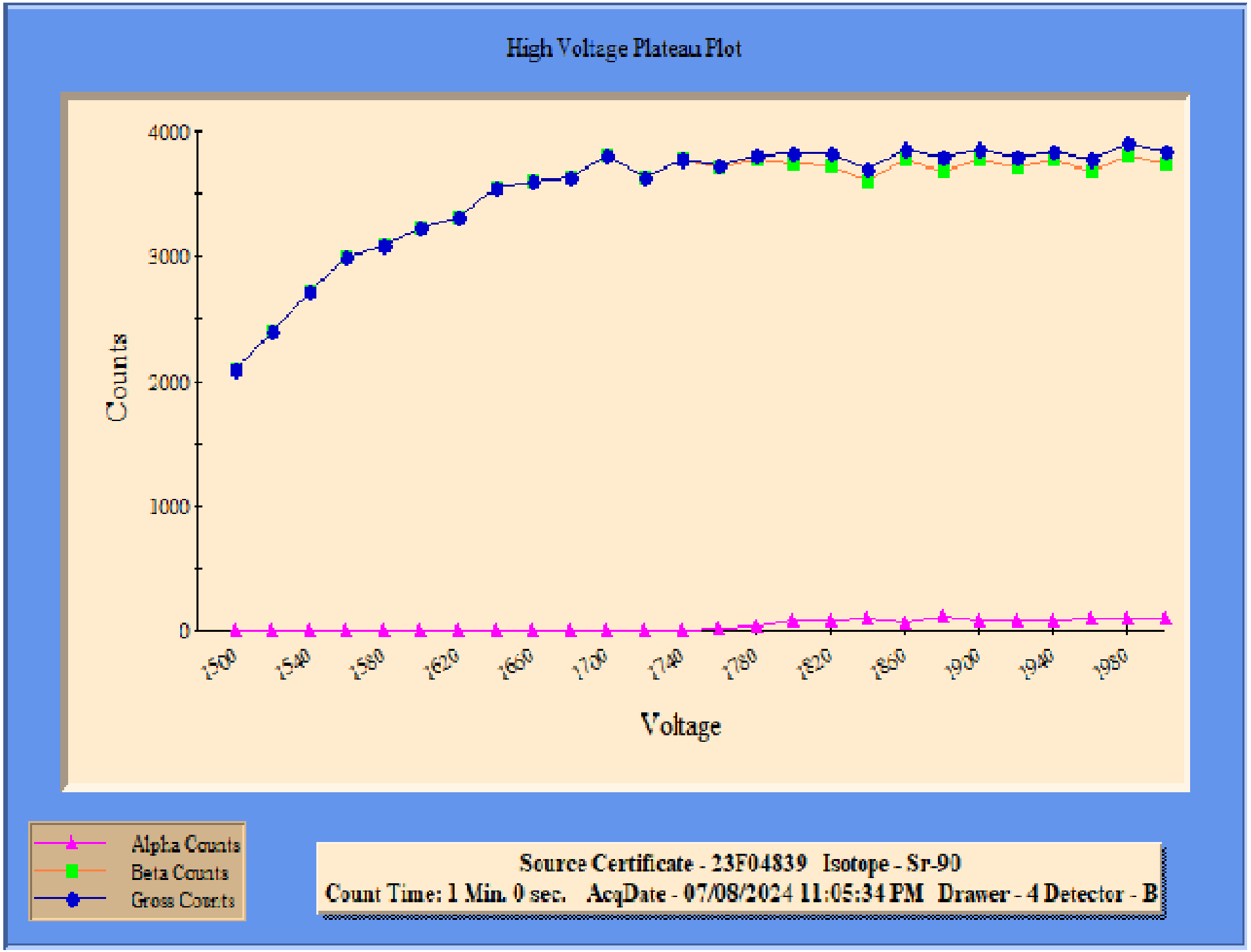
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 11:05:34 PM Drawer - 4 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 23:40
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1493	1492	1
1520	1702	1700	2
1540	1975	1975	0
1560	2257	2253	4
1580	2523	2523	0
1600	2755	2754	1
1620	3046	3044	2
1640	3158	3158	0
1660	3442	3441	1
1680	3476	3474	2
1700	3402	3401	1
1720	3574	3573	1
1740	3664	3663	1
1760	3563	3558	5
1780	3708	3706	2
1800	3735	3709	26
1820	3768	3726	42
1840	3818	3789	29
1860	3777	3746	31
1880	3822	3788	34
1900	3773	3749	24
1920	3713	3678	35
1940	3703	3672	31
1960	3722	3708	14
1980	3695	3664	31
2000	3706	3681	25

Special Notes:

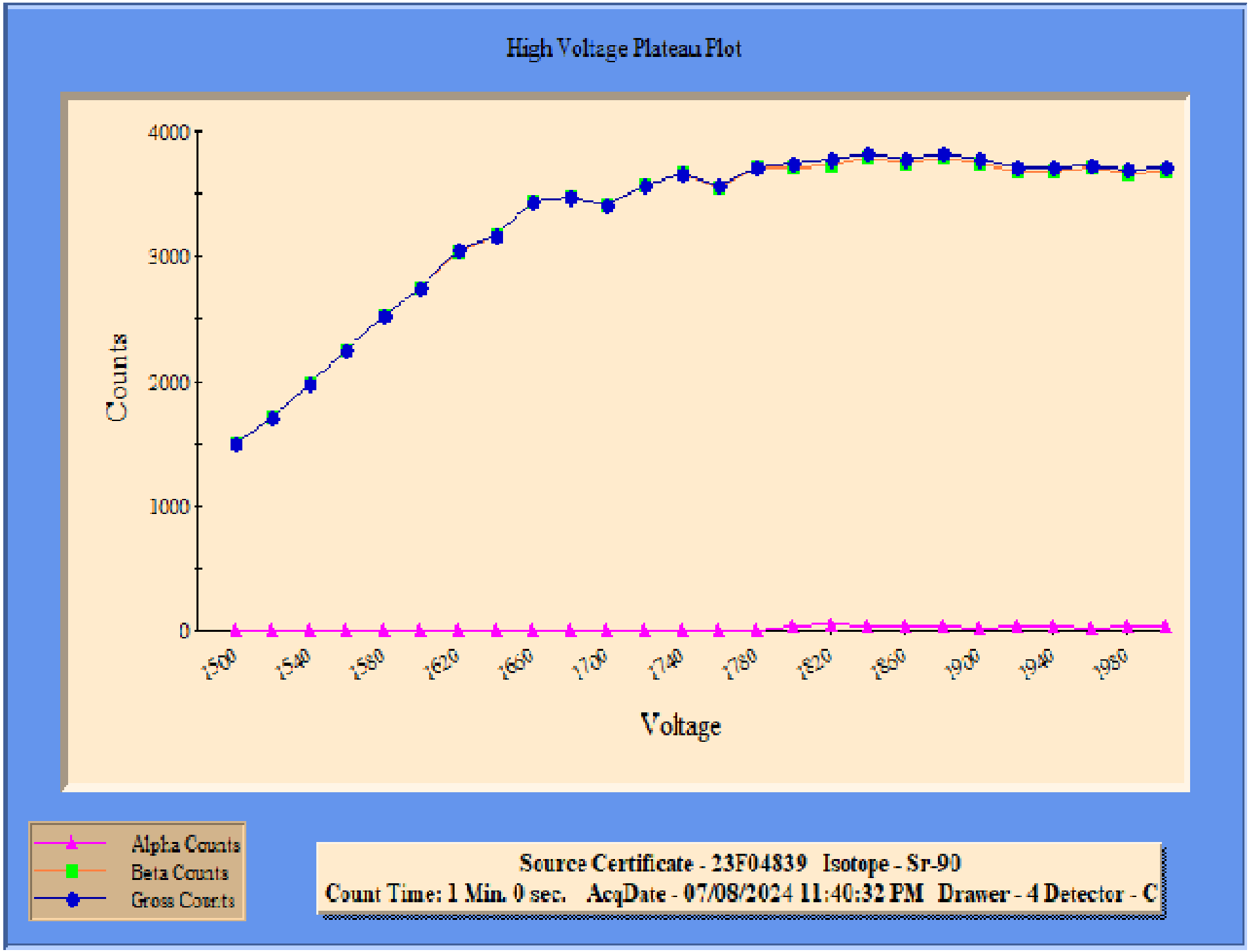
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 11:40:32 PM Drawer - 4 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/09/2024 00:10
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	582	582	0
1520	770	769	1
1540	936	935	1
1560	1205	1205	0
1580	1398	1396	2
1600	1576	1576	0
1620	1732	1732	0
1640	2073	2071	2
1660	2339	2338	1
1680	2576	2575	1
1700	2719	2718	1
1720	2868	2867	1
1740	3051	3048	3
1760	3223	3220	3
1780	3258	3253	5
1800	3307	3303	4
1820	3243	3240	3
1840	3348	3345	3
1860	3358	3355	3
1880	3310	3307	3
1900	3351	3346	5
1920	3311	3305	6
1940	3275	3268	7
1960	3268	3265	3
1980	3271	3269	2
2000	3396	3393	3

Special Notes:

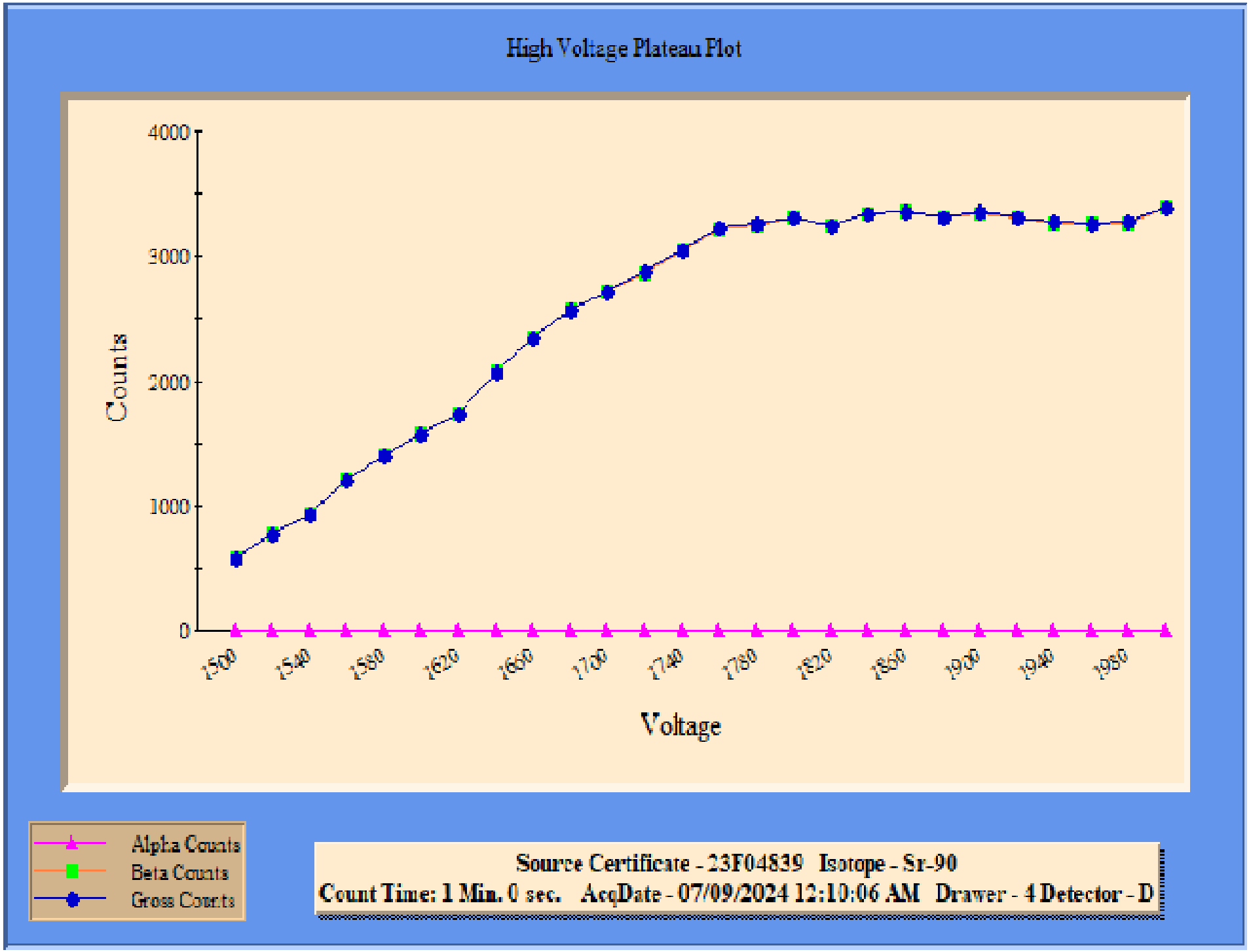
Report Generated: 07/09/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/09/2024 12:10:06 AM Drawer - 4 Detector - D

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL 2			**Test Date:**	07/09/2024 16:14
USER ID:	Meier			**System Serial #:**	062201
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	1	**Detector:**	A	**Source Certificate:**	23F04839
Counting Time:	1 min 0 sec	**Voltage:**	1760	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Gamma

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 1- 899	Chn 900 - 1023
1	3671	10
2	3702	14
3	3738	20
4	3692	15
5	3776	19
6	3652	17
7	3653	12
8	3592	13
9	3685	19
10	3602	17
11	3750	17
12	3719	31
13	3680	23
14	3800	24
15	3683	20
16	3641	23
17	3757	21
18	3645	33
19	3611	25
20	3694	19

(Xbar) Mean:	3687.15	19.60
Calculated Chi-Sqr Value:	16.84	33.20

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: B
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3199	7
2	3296	10
3	3343	15
4	3428	15
5	3294	13
6	3306	12
7	3147	8
8	3260	17
9	3228	15
10	3348	22
11	3295	18
12	3337	21
13	3320	18
14	3269	15
15	3200	26
16	3195	10
17	3287	9
18	3232	11
19	3315	15
20	3190	15

(Xbar) Mean:	3274.45	14.60
Calculated Chi-Sqr Value:	27.14	31.01

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: C
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3462	1
2	3669	10
3	3607	18
4	3585	19
5	3647	22
6	3625	32
7	3623	25
8	3546	22
9	3528	22
10	3629	22
11	3499	17
12	3661	38
13	3652	21
14	3610	26
15	3616	34
16	3695	20
17	3730	26
18	3562	35
19	3540	34
20	3558	34

(Xbar) Mean:	3602.20	23.90
Calculated Chi-Sqr Value:	23.87	65.51

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3820	4
2	3737	7
3	3803	4
4	3756	5
5	3803	5
6	3812	5
7	3728	5
8	3730	4
9	3745	6
10	3692	6
11	3694	6
12	3787	4
13	3655	9
14	3764	4
15	3767	5
16	3644	6
17	3781	10
18	3700	8
19	3722	6
20	3668	5

(Xbar) Mean:	3740.40	5.70
Calculated Chi-Sqr Value:	14.23	9.51

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 16:53
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3537	1
2	3556	3
3	3589	6
4	3635	3
5	3698	1
6	3620	2
7	3628	5
8	3645	2
9	3581	0
10	3583	4
11	3588	2
12	3573	6
13	3693	1
14	3555	1
15	3626	4
16	3626	3
17	3600	4
18	3710	4
19	3568	3
20	3654	3

(Xbar) Mean:	3613.25	2.90
Calculated Chi-Sqr Value:	12.77	18.55

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: B
Voltage: 1760
Conf Level: 95.0 %

Test Date: 07/09/2024 16:53
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3732	3
2	3605	3
3	3689	0
4	3735	6
5	3785	3
6	3692	4
7	3812	1
8	3741	4
9	3708	4
10	3727	2
11	3740	1
12	3653	8
13	3637	3
14	3664	2
15	3773	3
16	3656	2
17	3726	1
18	3653	5
19	3760	7
20	3573	4

(Xbar) Mean:	3703.05	3.30
Calculated Chi-Sqr Value:	19.57	24.30

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL 2			**Test Date:**	07/09/2024 16:53
USER ID:	Meier			**System Serial #:**	062201
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	2	**Detector:**	C	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1760	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 1- 899	Chn 900 - 1023
1	3424	23
2	3463	50
3	3323	35
4	3400	36
5	3390	31
6	3385	26
7	3341	34
8	3403	44
9	3472	38
10	3487	27
11	3399	38
12	3343	38
13	3463	29
14	3404	29
15	3383	36
16	3423	31
17	3432	38
18	3338	34
19	3382	22
20	3373	32

(Xbar) Mean:	3401.40	33.55
Calculated Chi-Sqr Value:	12.05	26.08

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: D
Voltage: 1760
Conf Level: 95.0 %

Test Date: 07/09/2024 16:53
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3780	24
2	3739	34
3	3646	31
4	3742	37
5	3598	32
6	3715	41
7	3594	43
8	3742	31
9	3759	34
10	3658	31
11	3767	40
12	3672	37
13	3662	29
14	3680	35
15	3782	27
16	3665	27
17	3616	39
18	3697	44
19	3693	30
20	3848	25

(Xbar) Mean:	3702.75	33.55
Calculated Chi-Sqr Value:	23.07	19.58

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL 2			**Test Date:**	07/09/2024 17:20
USER ID:	Meier			**System Serial #:**	062201
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	3	**Detector:**	A	**Source Certificate:**	23F04839
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Gamma

Count	Beta ROI Counts	Alpha ROI Counts
#	**Chn 1- 899**	**Chn 900 - 1023**
1	3451	2
2	3421	3
3	3457	1
4	3528	1
5	3477	3
6	3495	3
7	3505	6
8	3453	3
9	3482	4
10	3511	6
11	3487	4
12	3462	2
13	3413	5
14	3458	5
15	3463	2
16	3501	3
17	3349	2
18	3423	5
19	3498	3
20	3464	3

(Xbar) Mean:	3464.90	3.30
Calculated Chi-Sqr Value:	9.30	12.79

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: B
Voltage: 1780
Conf Level: 95.0 %
Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3259	5
2	3286	7
3	3232	13
4	3270	12
5	3271	19
6	3277	22
7	3306	22
8	3287	12
9	3328	21
10	3313	13
11	3297	18
12	3263	14
13	3304	22
14	3279	16
15	3198	20
16	3273	28
17	3242	12
18	3219	28
19	3312	15
20	3245	24

(Xbar) Mean:	3273.05	17.15
Calculated Chi-Sqr Value:	6.56	44.35

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL 2			**Test Date:**	07/09/2024 17:20
USER ID:	Meier			**System Serial #:**	062201
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	3	**Detector:**	C	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	**Chn 1- 899**	**Chn 900 - 1023**
1	3620	28
2	3580	22
3	3586	23
4	3676	31
5	3706	30
6	3670	34
7	3612	27
8	3563	13
9	3676	19
10	3619	21
11	3556	24
12	3581	23
13	3650	29
14	3788	25
15	3555	28
16	3598	36
17	3593	29
18	3539	24
19	3540	28
20	3563	21

(Xbar) Mean:	3613.55	25.75
Calculated Chi-Sqr Value:	21.53	21.19

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: D
Voltage: 1780
Conf Level: 95.0 %

Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3698	24
2	3648	19
3	3639	31
4	3719	19
5	3587	25
6	3612	33
7	3667	44
8	3667	26
9	3663	32
10	3550	36
11	3594	27
12	3661	35
13	3655	35
14	3713	29
15	3595	24
16	3623	37
17	3559	32
18	3624	30
19	3588	32
20	3547	37

(Xbar) Mean:	3630.45	30.35
Calculated Chi-Sqr Value:	13.81	25.19

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL 2			**Test Date:**	07/09/2024 17:46
USER ID:	Meier			**System Serial #:**	062201
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	4	**Detector:**	A	**Source Certificate:**	23F04839
Counting Time:	1 min 0 sec	**Voltage:**	1760	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Gamma

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 1- 900	Chn 900 - 1023
1	3337	21
2	3333	29
3	3373	21
4	3377	25
5	3381	27
6	3353	29
7	3376	22
8	3284	27
9	3382	33
10	3263	29
11	3280	23
12	3273	25
13	3381	21
14	3309	34
15	3360	24
16	3342	25
17	3415	28
18	3338	29
19	3303	26
20	3255	32

(Xbar) Mean:	3335.75	26.50
Calculated Chi-Sqr Value:	12.44	11.06

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL 2			**Test Date:**	07/09/2024 17:46
USER ID:	Meier			**System Serial #:**	062201
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	4	**Detector:**	B	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1760	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count	**Beta ROI Counts**	**Alpha ROI Counts**
#	**Chn 1- 900**	**Chn 900 - 1023**
1	3708	8
2	3751	7
3	3731	15
4	3620	8
5	3681	6
6	3781	6
7	3685	5
8	3638	4
9	3648	7
10	3604	14
11	3650	8
12	3691	8
13	3609	11
14	3796	5
15	3767	6
16	3623	7
17	3702	7
18	3564	8
19	3716	9
20	3524	11

(Xbar) Mean:	3674.45	8.00
Calculated Chi-Sqr Value:	27.24	19.25

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** C
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 17:46
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 1- 900	Chn 900 - 1023
1	3637	2
2	3637	1
3	3609	2
4	3697	1
5	3731	2
6	3687	5
7	3626	7
8	3659	2
9	3693	3
10	3610	3
11	3716	2
12	3691	2
13	3720	3
14	3647	3
15	3665	7
16	3677	1
17	3726	5
18	3844	3
19	3679	3
20	3678	9

(Xbar) Mean:	3681.45	3.30
Calculated Chi-Sqr Value:	14.51	27.94

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 17:46
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 900	Alpha ROI Counts Chn 900 - 1023
1	3438	3
2	3330	3
3	3504	0
4	3600	1
5	3557	2
6	3494	2
7	3499	1
8	3508	1
9	3579	3
10	3596	3
11	3545	3
12	3516	3
13	3453	0
14	3456	3
15	3581	2
16	3532	0
17	3612	2
18	3556	4
19	3597	1
20	3566	1

(Xbar) Mean:	3525.95	1.90
Calculated Chi-Sqr Value:	25.97	14.63

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

RADIUM-228
METHOD: **EPA 904/9320**
SDG# WG2470402

Lab ID	Result	2σ CE	2σTPU	SDWA DL	Lc	MDA	UNITS	PREP DATE	ANALYSIS DATE	ANALYST
BLANK WG2470402	-0.375	0.184	0.331	0.346	0.189	0.362	pCi/l	3/17/2025	3/25/2025	DDD3903
LCS WG2470402	4.523	0.230	0.368	0.301	0.164	0.314	pCi/l	3/17/2025	3/25/2025	DDD3903
MS L1834569-04 WG2470402	15.788	0.809	1.310	1.011	0.557	1.058	pCi/l	3/17/2025	3/25/2025	DDD3903
MSD L1834569-04 WG2470402	15.626	0.814	1.288	1.072	0.587	1.123	pCi/l	3/17/2025	3/25/2025	DDD3903
DUP L1835703-03 WG2470402	0.932	0.554	1.065	0.979	0.541	1.024	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-01 WG2470402	0.099	0.251	0.532	0.456	0.252	0.477	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-02 WG2470402	0.512	0.291	0.587	0.515	0.285	0.538	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-03 WG2470402	-0.216	0.370	0.648	0.672	0.368	0.705	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-04 WG2470402	-0.545	0.476	0.946	0.889	0.490	0.930	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-09 WG2470402	0.036	0.325	0.602	0.588	0.323	0.616	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-11 WG2470402	0.556	0.327	0.611	0.576	0.316	0.603	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-13 WG2470402	2.126	0.359	0.660	0.580	0.320	0.607	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835110-01 WG2470402	1.900	0.348	0.642	0.569	0.310	0.588	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835110-05 WG2470402	1.939	0.313	0.598	0.501	0.274	0.518	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835110-07 WG2470402	1.495	0.230	0.431	0.368	0.200	0.380	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835110-09 WG2470402	1.953	0.415	0.724	0.694	0.381	0.727	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835187-02 WG2470402	0.675	0.327	0.630	0.574	0.317	0.600	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835187-04 WG2470402	0.472	0.451	0.769	0.800	0.438	0.839	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835187-07 WG2470402	-0.100	0.302	0.580	0.553	0.304	0.579	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835200-01 WG2470402	0.362	0.290	0.512	0.514	0.282	0.539	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835200-02 WG2470402	0.234	0.335	0.567	0.597	0.326	0.626	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835703-01 WG2470402	0.000	0.351	0.641	0.635	0.348	0.665	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835703-02 WG2470402	1.379	0.456	0.780	0.785	0.430	0.823	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835703-03 WG2470402	0.629	0.399	0.688	0.702	0.383	0.736	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835703-04 WG2470402	2.321	0.459	0.761	0.764	0.418	0.801	pCi/l	3/17/2025	3/25/2025	DDD3903
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/l	3/17/2025	1/0/1900	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/l	3/17/2025	1/0/1900	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/l	3/17/2025	1/0/1900	

RADIUM-228

METHOD: EPA 904/9320
SDG# WG2470402
ANALYST: DDD3903
PREP DATE: 3/17/25 14:44

Matrix: NPW/DW

LAB ID	sample date	sample size (L)	ingrowth start	decay start	t3 min	count date/end time	counts	UNIT/DET no.	UNIT	DET no.	back CPM	COUNTER EFF	SAMPLE DECAY DAYS	SAMPLE DECAY FACTOR	t1 min	Count Time t2 min	λt_2 / $(1-e^{-\lambda t}2)$	1 / $(1-e^{-\lambda t}3)$	1 / $e^{-\lambda t}1$	Ba % rec	Y %rec	Ra228 pCi/l
BLANK WG2470402	**3/17/25 14:44**	1.000	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	287	3A-1	3	1	1.66	43.68	0.02	1.00	105	200	1.200	1.000	1.219	92.0%	97.3%	-0.375
LCS WG2470402	**3/17/25 14:44**	1.000	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	960	3A-2	3	2	1.69	45.45	0.02	1.00	105	200	1.200	1.000	1.219	100.0%	100.0%	4.523
MS L1834569-04 WG2470402	3/10/2025 11:55	0.300	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	794	3A-3	3	3	1.22	44.61	0.04	1.01	105	200	1.200	1.000	1.219	100.0%	86.3%	15.788
MSD L1834569-04 WG2470402	3/10/2025 11:55	0.300	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	943	3A-4	3	4	1.70	44.75	0.04	1.01	105	200	1.200	1.000	1.219	99.1%	96.0%	15.626
DUP L1835703-03 WG2470402	3/12/2025 8:20	0.300	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	242	3B-1	3	5	1.05	44.67	0.04	1.00	105	200	1.200	1.000	1.219	83.2%	100.0%	0.932
L1834569-01 WG2470402	3/10/2025 13:20	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	206	3B-2	3	6	1.00	48.11	0.04	1.01	105	200	1.200	1.000	1.219	100.0%	96.9%	0.099
L1834569-02 WG2470402	3/10/2025 9:45	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	215	3B-3	3	7	0.92	45.37	0.04	1.01	105	200	1.200	1.000	1.219	95.7%	91.9%	0.512
L1834569-03 WG2470402	3/10/2025 10:35	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	377	3B-4	3	8	1.96	44.01	0.04	1.01	105	200	1.200	1.000	1.219	100.0%	98.9%	-0.216
L1834569-04 WG2470402	3/10/2025 11:55	0.300	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	221	3C-1	3	9	1.21	45.07	0.04	1.01	105	200	1.200	1.000	1.219	100.0%	97.1%	-0.545
L1834569-09 WG2470402	3/10/2025 13:40	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	314	3C-2	3	10	1.56	44.67	0.04	1.01	105	200	1.200	1.000	1.219	100.0%	100.0%	0.036
L1834569-11 WG2470402	3/10/2025 10:45	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	316	3C-3	3	11	1.40	45.48	0.04	1.01	105	200	1.200	1.000	1.219	100.0%	95.3%	0.556
L1834569-13 WG2470402	3/10/2025 8:25	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	337	3C-4	3	12	1.08	44.90	0.04	1.01	105	200	1.200	1.000	1.219	94.6%	89.6%	2.126
L1835110-01 WG2470402	3/11/2025 11:15	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:21	339	3D-1	3	13	1.13	44.96	0.04	1.00	112	200	1.200	1.000	1.235	92.9%	96.0%	1.900
L1835110-05 WG2470402	3/11/2025 11:00	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:21	317	3D-2	3	14	0.97	44.83	0.04	1.00	112	200	1.200	1.000	1.235	100.0%	94.7%	1.939
L1835110-07 WG2470402	3/11/2025 12:25	0.700	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:21	345	3D-3	3	15	1.05	44.28	0.04	1.00	112	200	1.200	1.000	1.235	99.5%	97.6%	1.495
L1835110-09 WG2470402	3/11/2025 11:15	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	428	4C-2	4	10	1.58	46.37	0.04	1.00	105	200	1.200	1.000	1.218	100.0%	82.1%	1.953
L1835187-02 WG2470402	3/11/2025 12:40	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	270	4A-1	4	1	1.15	47.14	0.04	1.00	105	200	1.200	1.000	1.218	89.2%	94.3%	0.675
L1835187-04 WG2470402	3/11/2025 16:10	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	401	4A-2	4	2	1.88	46.61	0.04	1.00	105	200	1.200	1.000	1.218	80.3%	95.7%	0.472
L1835187-07 WG2470402	3/11/2025 17:34	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	287	4A-3	4	3	1.47	46.23	0.04	1.00	105	200	1.200	1.000	1.218	100.0%	100.0%	-0.100
L1835200-01 WG2470402	3/11/2025 12:40	0.700	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	381	4A-4	4	4	1.76	47.85	0.04	1.00	105	200	1.200	1.000	1.218	85.0%	94.9%	0.362
L1835200-02 WG2470402	3/11/2025 15:45	0.700	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	412	4B-1	4	5	1.97	48.15	0.04	1.00	105	200	1.200	1.000	1.218	80.3%	90.9%	0.234
L1835703-01 WG2470402	3/12/2025 8:20	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	359	4B-2	4	6	1.80	47.95	0.04	1.00	105	200	1.200	1.000	1.218	100.0%	92.2%	0.000
L1835703-02 WG2470402	3/12/2025 9:35	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	423	4B-3	4	7	1.75	48.08	0.04	1.00	105	200	1.200	1.000	1.218	86.8%	84.6%	1.379
L1835703-03 WG2470402	3/12/2025 8:20	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	469	4B-4	4	8	2.14	47.25	0.04	1.00	105	200	1.200	1.000	1.218	100.0%	92.1%	0.629
L1835703-04 WG2470402	3/12/2025 9:30	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	516	4C-1	4	9	1.92	45.24	0.04	1.00	105	200	1.200	1.000	1.218	90.3%	92.9%	2.321
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!

=Daily backgrounds used

RADIUM 228 QC REPORT

METHOD: EPA 904/9320
SDG# WG2470402
ANALYST: DDD3903

QC SPIKE INFORMATION
VOLUME USED: **0.5**
QC ID: 24H07307
ACTIVITY: 10.0 pCi/ml

Analyte **Ra228** units pCi/L
Matrix
Sample 335703-03 WG2470402

	RESULT	ERROR	2σTPU	SDWA DL	Lc	MDA	known	%REC	LIMITS LOW	LIMITS HIGH	RPD	LIMITS	RER	LIMITS
BLANK WG2470402	-0.375	0.184	0.331	0.346	0.189	0.362								
LCS WG2470402	4.523	0.230	0.368	0.301	0.164	0.314	5.0	**90.5%**	80%	120%				
L1835703-03 WG2470402	0.629	0.399	0.688	0.702	0.383	0.736								
DUP L1835703-03 WG2470402	0.932	0.554	1.065	0.979	0.541	1.024					**NC**	20%	**0.444**	3
L1834569-04 WG2470402	-0.545	0.476	0.946	0.889	0.490	0.930								
MS L1834569-04 WG2470402	15.79	0.81	1.31	1.01	0.56	1.06	16.7	**98.0%**	70%	130%				
MSD L1834569-04 WG2470402	15.63	0.81	1.29	1.07	0.59	1.12	16.7	**97.0%**	70%	130%	**1.0%**	20%	**0.14**	3

*** - Outside Control Limits**

SAMPLES:

BLANK WG2470402	L1834569-13 WG24	L1835703-02 WG2470402
LCS WG2470402	L1835110-01 WG24	L1835703-03 WG2470402
MS L1834569-04 WG2470402	L1835110-05 WG24	L1835703-04 WG2470402
MSD L1834569-04 WG2470402	L1835110-07 WG2470402	
DUP L1835703-03 WG2470402	L1835110-09 WG2470402	
L1834569-01 WG2470402	L1835187-02 WG2470402	
L1834569-02 WG2470402	L1835187-04 WG2470402	
L1834569-03 WG2470402	L1835187-07 WG2470402	
L1834569-04 WG2470402	L1835200-01 WG2470402	
L1834569-09 WG2470402	L1835200-02 WG2470402	
L1834569-11 WG2470402	L1835703-01 WG2470402	

3/28/2025

DECAY CALCUALTION

Th-232 Source
Source No. 2471-55
ESC58532
Pace No. 24H07307

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 07-Aug-24
DATE OF CALIBRATION 17-Mar-25

Ao =	1.03	nCi
N =	0.00	
T(1/2) =	1.41E+10	years
T =	0.00	years
dilution =	1.00	
A =	1.03	nCi
A =	2288.82	dpm/ml
A =	1031.00	pCi/ml
Stock =	1031	pCi/ml
Stock	9.7	ml
DI	1000	pCi/ml
A =	10.0 +/-	0.30013432 pCi/ml

Pace Analytical

View as PDF (CreatePDF?batchnum=WG2470402)

RA-228 Aqueous Radiochemistry Prep Benchsheet

Batch: WG2470402

Analyst: TBP4289 Prep Start Date/Time: 03/17/25 14:44-16:57 Prep End Date/Time: 03/28/25 22:49-22:52 Method: 904 SOP: ENV-SOP-MTJL-0300/0322 Pipet ID: E-21, E-24, E-12 Balance ID: RADBAL3
Stirrer ID: ST 15, 34, 43, 44 Hotplate ID: HP 20, 21 Centrifuge ID: C5, C6 Centrifuge Tube Lot: 920138 Transfer Pipet Lot: 24450561 1mL e-Pipet Tip Lot: 2243 2mL e-Pipet Tip Lot: 2418
10mL e-Pipet Tip Lot: 2332 10mL Manual Pipet Tip Lot: p7601073 pH Lot: 10BDH3921 Filter Lot#: N/A Filter Lot#: N/A

LCS/MS Spike: 24H07307 Amt. Used: 0.50 mL Exp. Date:08/07/25 16 mg/mL Barium Carrier: 25A31529 Amt. Used: 2 mL Exp. Date:05/31/25 1M Citric Acid: 25A24419 Amt. Used: 5 mL Exp. Date:09/30/25
Methyl Orange: 25A24421 Amt. Used: 0.20 mL Exp. Date:01/24/26 15 mg/mL Lead Carrier: 25C12783 Amt. Used: 10 mL Exp. Date:03/12/26 10 mg/mL Strontium Carrier: 25C04631 Amt. Used: 2 mL Exp. Date:03/31/26
18 mg/mL Yttrium Carrier: 25A09528 Amt. Used: 1 mL Exp. Date:01/09/26 Ammonium Hydroxide: 25B25401 Amt. Used: 10 mL Exp. Date:08/06/26 1:1 H2SO4: 25C13088 Amt. Used: 10 mL Exp. Date:03/13/26
200 mg/mL Ammonium Sulfate: 25C03355 Amt. Used: 16 mL Exp. Date:03/03/26 Nitric Acid: 25C19808 Amt. Used: 34 mL Exp. Date:09/19/29 0.25N Basic EDTA: 24K23552 Amt. Used: 85 mL Exp. Date:11/23/25
0.9mg/mL each Sr/Y Carrier: 25A20695 Amt. Used: 2 mL Exp. Date:03/31/25 Acetic Acid: 24H09546 Amt. Used: 20 mL Exp. Date:02/28/26 1.5mg/mL Lead Carrier: 25B27873 Amt. Used: 2 mL Exp. Date:02/21/26
2% NH4 Sulfide: 25C13070 Amt. Used: 0.50 mL Exp. Date:03/13/26 9 mg/mL Yttrium Carrier: 25A21880 Amt. Used: 1 mL Exp. Date:01/21/26 18N NaOH: 25B27930 Amt. Used: 5 mL Exp. Date:02/27/26
6N Nitric Acid: 25C14182 Amt. Used: 2 mL Exp. Date:03/14/26 10N NaOH: 25C18779 Amt. Used: 4 mL Exp. Date:03/18/26 1N Nitric Acid: 25C18776 Amt. Used: 3.50 mL Exp. Date:03/18/26
5% Ammonium Oxalate: 25C07143 Amt. Used: 3.50 mL Exp. Date:03/07/28

Sample Number	Collect Date	Sample Vol. (L or filt)	Ac-228 Ingrowth Time	Ac-228 Decay Time	Y Planchet Tare (g)	Y Planchet Gross (g)	Y Planchet Net (g)	Ba Planchet Tare (g)	Ba Planchet Gross (g)	Ba Planchet Net (g)	Review Analyst	Review Date
BLANK		1.00	03/19/25 13:28:00	03/25/25 22:10:00	7.46157	7.49409	0.03252	7.50816	7.55996	0.0518	DDD3903	03/28/25 22:52:47
LCS		1.00	03/19/25 13:28:00	03/25/25 22:10:00	7.61772	7.65114	0.03342	7.50296	7.56073	0.05777	DDD3903	03/28/25 22:52:47
MS(L1834569-04)		0.300	03/19/25 13:28:00	03/25/25 22:10:00	7.64650	7.67536	0.02886	7.48809	7.54444	0.05635	DDD3903	03/28/25 22:52:47
MSD(L1834569-04)		0.300	03/19/25 13:28:00	03/25/25 22:10:00	7.60340	7.63551	0.03211	7.50819	7.56396	0.05577	DDD3903	03/28/25 22:52:47
DUP(L1835703-03)		0.300	03/19/25 13:28:00	03/25/25 22:10:00	7.66963	7.70347	0.03384	7.49662	7.54346	0.04684	DDD3903	03/28/25 22:52:47
1. L1834569-01	03/10/25 13:20	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.53891	7.57130	0.03239	7.49502	7.55524	0.06022	DDD3903	03/28/25 22:52:47
2. L1834569-02	03/10/25 09:45	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.61615	7.64686	0.03071	7.47716	7.53100	0.05384	DDD3903	03/28/25 22:52:47
3. L1834569-03	03/10/25 10:35	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.66307	7.69615	0.03308	7.48244	7.54123	0.05879	DDD3903	03/28/25 22:52:47
4. L1834569-04	03/10/25 11:55	0.300	03/19/25 13:28:00	03/25/25 22:10:00	7.56887	7.60133	0.03246	7.51698	7.57414	0.05716	DDD3903	03/28/25 22:52:47
5. L1834569-09	03/10/25 13:40	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.56301	7.59691	0.0339	7.50459	7.56407	0.05948	DDD3903	03/28/25 22:52:47
6. L1834569-11	03/10/25 10:45	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.58570	7.61757	0.03187	7.52698	7.58473	0.05775	DDD3903	03/28/25 22:52:47
7. L1834569-13	03/10/25 08:25	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.59412	7.62406	0.02994	7.52502	7.57825	0.05323	DDD3903	03/28/25 22:52:47
8. L1835110-01	03/11/25 11:15	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.48618	7.51829	0.03211	7.50171	7.55398	0.05227	DDD3903	03/28/25 22:52:47
9. L1835110-05	03/11/25 11:00	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.65322	7.68489	0.03167	7.50217	7.56032	0.05815	DDD3903	03/28/25 22:52:47
10. L1835110-07	03/11/25 12:25	0.700	03/19/25 13:28:00	03/25/25 22:10:00	7.68997	7.72261	0.03264	7.49951	7.55549	0.05598	DDD3903	03/28/25 22:52:47
11. L1835110-09	03/11/25 11:15	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.59091	7.61837	0.02746	7.49267	7.55256	0.05989	DDD3903	03/28/25 22:52:47
12. L1835187-02	03/11/25 12:40	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.66255	7.69407	0.03152	7.51822	7.56840	0.05018	DDD3903	03/28/25 22:52:47
13. L1835187-04	03/11/25 16:10	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.58792	7.61993	0.03201	7.47785	7.52306	0.04521	DDD3903	03/28/25 22:52:47
14. L1835187-07	03/11/25 17:34	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.60351	7.63850	0.03499	7.52058	7.57739	0.05681	DDD3903	03/28/25 22:52:47
15. L1835200-01	03/11/25 12:40	0.700	03/19/25 13:28:00	03/25/25 22:10:00	7.56205	7.59376	0.03171	7.49654	7.54441	0.04787	DDD3903	03/28/25 22:52:47
16. L1835200-02	03/11/25 15:45	0.700	03/19/25 13:28:00	03/25/25 22:10:00	7.65028	7.68067	0.03039	7.47979	7.52501	0.04522	DDD3903	03/28/25 22:52:47
17. L1835703-01	03/12/25 08:20	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.55633	7.58717	0.03084	7.50011	7.55914	0.05903	DDD3903	03/28/25 22:52:47
18. L1835703-02	03/12/25 09:35	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.59955	7.62783	0.02828	7.52142	7.57029	0.04887	DDD3903	03/28/25 22:52:47
19. L1835703-03	03/12/25 08:20	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.53341	7.56420	0.03079	7.48806	7.54472	0.05666	DDD3903	03/28/25 22:52:47
20. L1835703-04	03/12/25 09:30	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.66067	7.69172	0.03105	7.50053	7.55133	0.0508	DDD3903	03/28/25 22:52:47

Comments:Reviewed By:DDD3903 on 03/28/25 22:52:47

Yttrium Recovery

9 mg/ml(Y)

Known $Y_2(C_2O_4)_3 \cdot 9H_2O$

Standardized Value	9.84	mg/ml	Y_2	177.8 g/mol
Volume Added	1.00	mL	$Y_2(C_2O_4)_3.9H_2O$	603.8 g/mol
Mass Added	33.43	mg		

LAB ID	TARE(g)	GROSS(g)	NET(g)	Y %rec
BLANK WG2470402	7.46157	7.49409	0.0325	**97%**
LCS WG2470402	7.61772	7.65114	0.0334	**100.0%**
MS L1834569-04 WG2470402	7.6465	7.67536	0.0289	**86.3%**
MSD L1834569-04 WG2470402	7.6034	7.63551	0.0321	**96.0%**
DUP L1835703-03 WG2470402	7.66963	7.70347	0.0338	**101%**
L1834569-01 WG2470402	7.53891	7.5713	0.0324	**96.9%**
L1834569-02 WG2470402	7.61615	7.64686	0.0307	**91.9%**
L1834569-03 WG2470402	7.66307	7.69615	0.0331	**98.9%**
L1834569-04 WG2470402	7.56887	7.60133	0.0325	**97.1%**
L1834569-09 WG2470402	7.56301	7.59691	0.0339	**101.4%**
L1834569-11 WG2470402	7.5857	7.61757	0.0319	**95.3%**
L1834569-13 WG2470402	7.59412	7.62406	0.0299	**90%**
L1835110-01 WG2470402	7.48618	7.51829	0.0321	**96.0%**
L1835110-05 WG2470402	7.65322	7.68489	0.0317	**94.7%**
L1835110-07 WG2470402	7.68997	7.72261	0.0326	**97.6%**
L1835110-09 WG2470402	7.59091	7.61837	0.0275	**82.1%**
L1835187-02 WG2470402	7.66255	7.69407	0.0315	**94.3%**
L1835187-04 WG2470402	7.58792	7.61993	0.0320	**95.7%**
L1835187-07 WG2470402	7.60351	7.6385	0.0350	**104.7%**
L1835200-01 WG2470402	7.56205	7.59376	0.0317	**94.9%**
L1835200-02 WG2470402	7.65028	7.68067	0.0304	**90.9%**
L1835703-01 WG2470402	7.55633	7.58717	0.0308	**92.2%**
L1835703-02 WG2470402	7.59955	7.62783	0.0283	**84.6%**
L1835703-03 WG2470402	7.53341	7.5642	0.0308	**92.1%**
L1835703-04 WG2470402	7.66067	7.69172	0.0311	**92.9%**
0			0.0000	**0.0%**
0			0.0000	**0.0%**
0			0.0000	**0.0%**

25A21880 Standardization Date: 01/21/25

		Y2(C2O4)3.9H2O	Y g/mL	Y mg/mL
Tare (g)	Gross (g)	Net (g)		
0.08112	0.41313	0.33201	0.00978	9.7766
0.08088	0.41708	0.33620	0.00990	9.9000
0.08230	0.41703	0.33473	0.00986	9.8567

Avg. Y mg/mL

9.8445 ± 0.64%

Barium Recovery

16 mg/ml(Ba)

Known $BaSO_4$

Standardized Value	16.55	mg/ml	Ba	137	g/mol
volume added	2.00	ml			
	56.29	mg	$BaSO_4$	233	g/mol

25A31529 Standardization Date: 2/3/25				
T	G	N		
7.55195	7.60790	0.05595	0.02798	0.0164
7.56393	7.61980	0.05587	0.02793	0.0164
7.55326	7.61030	0.05704	0.02852	0.0168

16.55 +/- 1.2%

LAB ID	TARE(g)	GROSS(g)	NET(g)	%rec
BLANK WG2470402	7.50816	7.55996	0.0518	**92%**
LCS WG2470402	7.50296	7.56073	0.0578	**103%**
MS L1834569-04 WG2470402	7.48809	7.54444	0.0564	**100%**
MSD L1834569-04 WG2470402	7.50819	7.56396	0.0558	**99%**
DUP L1835703-03 WG2470402	7.49662	7.54346	0.0468	**83%**
L1834569-01 WG2470402	7.49502	7.55524	0.0602	**107%**
L1834569-02 WG2470402	7.47716	7.531	0.0538	**96%**
L1834569-03 WG2470402	7.48244	7.54123	0.0588	**104%**
L1834569-04 WG2470402	7.51698	7.57414	0.0572	**102%**
L1834569-09 WG2470402	7.50459	7.56407	0.0595	**106%**
L1834569-11 WG2470402	7.52698	7.58473	0.0578	**103%**
L1834569-13 WG2470402	7.52502	7.57825	0.0532	**95%**
L1835110-01 WG2470402	7.50171	7.55398	0.0523	**93%**
L1835110-05 WG2470402	7.50217	7.56032	0.0582	**103%**
L1835110-07 WG2470402	7.49951	7.55549	0.0560	**99%**
L1835110-09 WG2470402	7.49267	7.55256	0.0599	**106%**
L1835187-02 WG2470402	7.51822	7.5684	0.0502	**89%**
L1835187-04 WG2470402	7.47785	7.52306	0.0452	**80%**
L1835187-07 WG2470402	7.52058	7.57739	0.0568	**101%**
L1835200-01 WG2470402	7.49654	7.54441	0.0479	**85%**
L1835200-02 WG2470402	7.47979	7.52501	0.0452	**80%**
L1835703-01 WG2470402	7.50011	7.55914	0.0590	**105%**
L1835703-02 WG2470402	7.52142	7.57029	0.0489	**87%**
L1835703-03 WG2470402	7.48806	7.54472	0.0567	**101%**
L1835703-04 WG2470402	7.50053	7.55133	0.0508	**90%**
0			0.0000	**0%**
0			0.0000	**0%**
0			0.0000	**0%**

G542 Runlog RA-228 Waters WG2470402

Sample order verified by DDD3903

Sample ID	Beta	LT	Det	Analyst	Start	End
BLANK WG2470402	287	200	3A-1	ALG3788	3/25/2025 23:55	3/26/2025 3:15
LCS WG2470402	960	200	3A-2	ALG3788	3/25/2025 23:55	3/26/2025 3:15
MS L1834569-04 WG2470402	794	200	3A-3	ALG3788	3/25/2025 23:55	3/26/2025 3:15
MSD L1834569-04 WG2470402	943	200	3A-4	ALG3788	3/25/2025 23:55	3/26/2025 3:15
DUP L1835703-03 WG2470402	242	200	3B-1	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-01 WG2470402	206	200	3B-2	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-02 WG2470402	215	200	3B-3	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-03 WG2470402	377	200	3B-4	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-04 WG2470402	221	200	3C-1	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-09 WG2470402	314	200	3C-2	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-11 WG2470402	316	200	3C-3	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-13 WG2470402	337	200	3C-4	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1835110-01 WG2470402	339	200	3D-1	ALG3788	3/26/2025 0:01	3/26/2025 3:21
L1835110-05 WG2470402	317	200	3D-2	ALG3788	3/26/2025 0:01	3/26/2025 3:21
L1835110-07 WG2470402	345	200	3D-3	ALG3788	3/26/2025 0:01	3/26/2025 3:21
L1835110-09 WG2470402	428	200	4C-2	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835187-02 WG2470402	270	200	4A-1	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835187-04 WG2470402	401	200	4A-2	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835187-07 WG2470402	287	200	4A-3	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835200-01 WG2470402	381	200	4A-4	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835200-02 WG2470402	412	200	4B-1	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835703-01 WG2470402	359	200	4B-2	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835703-02 WG2470402	423	200	4B-3	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835703-03 WG2470402	469	200	4B-4	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835703-04 WG2470402	516	200	4C-1	ALG3788	3/25/2025 23:54	3/26/2025 3:14

Unit 3 Beta Efficiencies Det 1-8

		DET1	DET2	DET3	DET 4	DET 5	DET 6	DET 7	DET 8
		y = -0.00006x2 - 0.059x + 45.664	y = -0.0002x2 - 0.0408x + 47.033	y = -0.00004x2 - 0.0505x + 46.152	y = 0.00006x2 - 0.0538x + 46.412	y =- 0.00002x2 - 0.06x + 46.723	y = 0.00004x2 - 0.0598x + 46.129	y = -0.00007x2 - 0.0532x + 47.067	y = 0.00005x2 - 0.0635x + 46.051
	A	-0.00006	-0.0002	-0.0001	0.00006	-0.00002	0.00004	-0.00007	0.00005
	B	-0.059	-0.0408	-0.0505	-0.0538	-0.06	0.0598	-0.0532	-0.0635
	C	45.664	47.033	46.152	46.412	46.723	46.129	47.067	46.051
SAMPLE ID	NET WT. mg	**3A-1** BETA EFF	**3A-2** BETA EFF	**3A-3** BETA EFF	**3A-4** BETA EFF	**3B-1** BETA EFF	**3B-2** BETA EFF	**3B-3** BETA EFF	**3B-4** BETA EFF
BLANK WG2470402	32.52	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.0
LCS WG2470402	33.42	43.6	45.4	44.4	44.7	44.7	48.2	45.2	44.0
MS L1834569-04 WG2470402	28.86	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
MSD L1834569-04 WG2470402	32.11	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.1
DUP L1835703-03 WG2470402	33.84	43.6	45.4	44.3	44.7	44.7	48.2	45.2	44.0
L1834569-01 WG2470402	32.39	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.0
L1834569-02 WG2470402	30.71	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.1
L1834569-03 WG2470402	33.08	43.6	45.5	44.4	44.7	44.7	48.2	45.2	44.0
L1834569-04 WG2470402	32.46	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.0
L1834569-09 WG2470402	33.9	43.6	45.4	44.3	44.7	44.7	48.2	45.2	44.0
L1834569-11 WG2470402	31.87	43.7	45.5	44.4	44.8	44.8	48.1	45.3	44.1
L1834569-13 WG2470402	29.94	43.8	45.6	44.6	44.9	44.9	48.0	45.4	44.2
L1835110-01 WG2470402	32.11	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.1
L1835110-05 WG2470402	31.67	43.7	45.5	44.5	44.8	44.8	48.1	45.3	44.1
L1835110-07 WG2470402	32.64	43.7	45.5	44.4	44.7	44.7	48.1	45.3	44.0
L1835110-09 WG2470402	27.46	44.0	45.8	44.7	45.0	45.1	47.8	45.6	44.3
L1835187-02 WG2470402	31.52	43.7	45.5	44.5	44.8	44.8	48.1	45.3	44.1
L1835187-04 WG2470402	32.01	43.7	45.5	44.4	44.8	44.8	48.1	45.3	44.1
L1835187-07 WG2470402	34.99	43.5	45.4	44.3	44.6	44.6	48.3	45.1	43.9
L1835200-01 WG2470402	31.71	43.7	45.5	44.5	44.8	44.8	48.1	45.3	44.1
L1835200-02 WG2470402	30.39	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.2
L1835703-01 WG2470402	30.84	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.1
L1835703-02 WG2470402	28.28	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
L1835703-03 WG2470402	30.79	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.1
L1835703-04 WG2470402	31.05	43.8	45.6	44.5	44.8	44.8	48.0	45.3	44.1
0	0	45.7	47.0	46.2	46.4	46.7	46.1	47.1	46.1
0	0	45.7	47.0	46.2	46.4	46.7	46.1	47.1	46.1
0	0	45.7	47.0	46.2	46.4	46.7	46.1	47.1	46.1

Unit 3 Beta Efficiencies Det 9-16

		DET9	DET10	DET11	DET 12	DET 13	DET 14	DET 15	DET 16
		y = -0.00001x2 - 0.0623x +47.103	y = -0.00004x2 - 0.0573x + 46.66	y = 0.000002x2 - 0.0628x + 47.482	y = -0.00005x2 - 0.0534x + 46.539	y = 0.00004x2 - 0.0691x + 47.134	y = 0.00007x2 - 0.062x + 46.722	y = 0.0002x2 - 0.0656x + 46.404	y = -0.0001x2 - 0.0477x + 46.461
	A	-0.00001	-0.00004	0.000002	-0.00005	0.00004	0.00007	0.00002	-0.0001
	B	-0.0623	-0.0573	-0.0628	-0.0534	-0.0691	-0.062	-0.0656	-0.0477
	C	47.103	46.66	47.482	46.539	47.134	46.722	46.404	46.461
SAMPLE ID	NET WT. mg	**3C-1** BETA EFF	**3C-2** BETA EFF	**3C-3** BETA EFF	**3C-4** BETA EFF	**3D-1** BETA EFF	**3D-2** BETA EFF	**3D-3** BETA EFF	**3D-4** BETA EFF
BLANK WG2470402	32.52	45.1	44.8	45.4	44.7	44.9	44.8	44.3	44.8
LCS WG2470402	33.42	45.0	44.7	45.4	44.7	44.9	44.7	44.2	44.8
MS L1834569-04 WG2470402	28.86	45.3	45.0	45.7	45.0	45.2	45.0	44.5	45.0
MSD L1834569-04 WG2470402	32.11	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
DUP L1835703-03 WG2470402	33.84	45.0	44.7	45.4	44.7	44.8	44.7	44.2	44.7
L1834569-01 WG2470402	32.39	45.1	44.8	45.5	44.8	44.9	44.8	44.3	44.8
L1834569-02 WG2470402	30.71	45.2	44.9	45.6	44.9	45.0	44.9	44.4	44.9
L1834569-03 WG2470402	33.08	45.0	44.7	45.4	44.7	44.9	44.7	44.3	44.8
L1834569-04 WG2470402	32.46	45.1	44.8	45.4	44.8	44.9	44.8	44.3	44.8
L1834569-09 WG2470402	33.9	45.0	44.7	45.4	44.7	44.8	44.7	44.2	44.7
L1834569-11 WG2470402	31.87	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
L1834569-13 WG2470402	29.94	45.2	44.9	45.6	44.9	45.1	44.9	44.5	44.9
L1835110-01 WG2470402	32.11	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
L1835110-05 WG2470402	31.67	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.9
L1835110-07 WG2470402	32.64	45.1	44.7	45.4	44.7	44.9	44.8	44.3	44.8
L1835110-09 WG2470402	27.46	45.4	45.1	45.8	45.0	45.3	45.1	44.6	45.1
L1835187-02 WG2470402	31.52	45.1	44.8	45.5	44.8	45.0	44.8	44.4	44.9
L1835187-04 WG2470402	32.01	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
L1835187-07 WG2470402	34.99	44.9	44.6	45.3	44.6	44.8	44.6	44.1	44.7
L1835200-01 WG2470402	31.71	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
L1835200-02 WG2470402	30.39	45.2	44.9	45.6	44.9	45.1	44.9	44.4	44.9
L1835703-01 WG2470402	30.84	45.2	44.9	45.5	44.8	45.0	44.9	44.4	44.9
L1835703-02 WG2470402	28.28	45.3	45.0	45.7	45.0	45.2	45.0	44.6	45.0
L1835703-03 WG2470402	30.79	45.2	44.9	45.6	44.8	45.0	44.9	44.4	44.9
L1835703-04 WG2470402	31.05	45.2	44.8	45.5	44.8	45.0	44.9	44.4	44.9
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5

Unit 4 Beta Efficiencies Det 1-8

		y = 0.000003x2 - 0.066x	y = 0.0001x2 - 0.0498x +	y = 0.00007x2 - 0.0559x	y = 0.0001x2 - 0.0501x +	y = 0.0006x2 - 0.0004x +	y = 0.0002x2 - 0.0367x +	y = 0.00004x2 - 0.0695x	y = 0.000008x2 - 0.0632x +49.191
	A	0.000003	0.0001	0.00007	0.0001	0.0006	0.0002	0.00004	0.000008
	B	-0.066	-0.0498	-0.0559	-0.0501	-0.0004	-0.0367	-0.0695	-0.0632
	C	49.22	48.106	48.098	49.339	47.611	48.89	50.012	49.191
SAMPLE ID	NET WT. mg	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF
=======	=====	=====	=====	=====	=====	=====	=====	=====	=====
BLANK WG2470402	32.52	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.1
LCS WG2470402	33.42	47.0	46.6	46.3	47.8	48.3	47.9	47.7	47.1
MS L1834569-04 WG2470402	28.86	47.3	46.8	46.5	48.0	48.1	48.0	48.0	47.4
MSD L1834569-04 WG2470402	32.11	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
DUP L1835703-03 WG2470402	33.84	47.0	46.5	46.3	47.8	48.3	47.9	47.7	47.1
L1834569-01 WG2470402	32.39	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
L1834569-02 WG2470402	30.71	47.2	46.7	46.4	47.9	48.2	48.0	47.9	47.3
L1834569-03 WG2470402	33.08	47.0	46.6	46.3	47.8	48.3	47.9	47.8	47.1
L1834569-04 WG2470402	32.46	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.1
L1834569-09 WG2470402	33.9	47.0	46.5	46.3	47.8	48.3	47.9	47.7	47.1
L1834569-11 WG2470402	31.87	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
L1834569-13 WG2470402	29.94	47.2	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1835110-01 WG2470402	32.11	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
L1835110-05 WG2470402	31.67	47.1	46.6	46.4	47.9	48.2	47.9	47.9	47.2
L1835110-07 WG2470402	32.64	47.1	46.6	46.3	47.8	48.2	47.9	47.8	47.1
L1835110-09 WG2470402	27.46	47.4	46.8	46.6	48.0	48.1	48.0	48.1	47.5
L1835187-02 WG2470402	31.52	47.1	46.6	46.4	47.9	48.2	47.9	47.9	47.2
L1835187-04 WG2470402	32.01	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
L1835187-07 WG2470402	34.99	46.9	46.5	46.2	47.7	48.3	47.9	47.6	47.0
L1835200-01 WG2470402	31.71	47.1	46.6	46.4	47.9	48.2	47.9	47.8	47.2
L1835200-02 WG2470402	30.39	47.2	46.7	46.5	47.9	48.2	48.0	47.9	47.3
L1835703-01 WG2470402	30.84	47.2	46.7	46.4	47.9	48.2	47.9	47.9	47.2
L1835703-02 WG2470402	28.28	47.4	46.8	46.6	48.0	48.1	48.0	48.1	47.4
L1835703-03 WG2470402	30.79	47.2	46.7	46.4	47.9	48.2	47.9	47.9	47.3
L1835703-04 WG2470402	31.05	47.2	46.7	46.4	47.9	48.2	47.9	47.9	47.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2

Unit 4 Beta Efficiencies Det 9-16

		y = 0.0001x2 - 0.0881x +	y = 0.000009x2 - 0.0693	y = 0.00006x2 - 0.077x +	y = 0.00001x2 - 0.064x +	y = 0.00008x2 - 0.0606x	y = 0.0001x2 - 0.0548x +	y = 0.00002x2 - 0.0667x	y = 0.0004x2 - 0.1078x +50.001
	A	0.0001	0.000009	0.00006	0.00001	0.00008	0.0001	0.00002	0.0004
	B	-0.0881	-0.0693	-0.077	-0.064	-0.0606	-0.0548	-0.0667	-0.1078
	C	47.883	48.266	49.14	48.492	49.387	49.512	48.519	50.001
SAMPLE ID	WT. mg	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF
BLANK WG2470402	32.52	45.1	46.0	46.7	46.4	47.5	47.8	46.4	46.9
LCS WG2470402	33.42	45.1	46.0	46.6	46.4	47.5	47.8	46.3	46.8
MS L1834569-04 WG2470402	28.86	45.4	46.3	47.0	46.7	47.7	48.0	46.6	47.2
MSD L1834569-04 WG2470402	32.11	45.2	46.1	46.7	46.4	47.5	47.9	46.4	47.0
DUP L1835703-03 WG2470402	33.84	45.0	45.9	46.6	46.3	47.4	47.8	46.3	46.8
L1834569-01 WG2470402	32.39	45.1	46.0	46.7	46.4	47.5	47.8	46.4	46.9
L1834569-02 WG2470402	30.71	45.3	46.1	46.8	46.5	47.6	47.9	46.5	47.1
L1834569-03 WG2470402	33.08	45.1	46.0	46.7	46.4	47.5	47.8	46.3	46.9
L1834569-04 WG2470402	32.46	45.1	46.0	46.7	46.4	47.5	47.8	46.4	46.9
L1834569-09 WG2470402	33.9	45.0	45.9	46.6	46.3	47.4	47.8	46.3	46.8
L1834569-11 WG2470402	31.87	45.2	46.1	46.7	46.5	47.5	47.9	46.4	47.0
L1834569-13 WG2470402	29.94	45.3	46.2	46.9	46.6	47.6	48.0	46.5	47.1
L1835110-01 WG2470402	32.11	45.2	46.1	46.7	46.4	47.5	47.9	46.4	47.0
L1835110-05 WG2470402	31.67	45.2	46.1	46.8	46.5	47.5	47.9	46.4	47.0
L1835110-07 WG2470402	32.64	45.1	46.0	46.7	46.4	47.5	47.8	46.4	46.9
L1835110-09 WG2470402	27.46	45.5	46.4	47.1	46.7	47.8	48.1	46.7	47.3
L1835187-02 WG2470402	31.52	45.2	46.1	46.8	46.5	47.6	47.9	46.4	47.0
L1835187-04 WG2470402	32.01	45.2	46.1	46.7	46.5	47.5	47.9	46.4	47.0
L1835187-07 WG2470402	34.99	44.9	45.9	46.5	46.3	47.4	47.7	46.2	46.7
L1835200-01 WG2470402	31.71	45.2	46.1	46.8	46.5	47.5	47.9	46.4	47.0
L1835200-02 WG2470402	30.39	45.3	46.2	46.9	46.6	47.6	47.9	46.5	47.1
L1835703-01 WG2470402	30.84	45.3	46.1	46.8	46.5	47.6	47.9	46.5	47.1
L1835703-02 WG2470402	28.28	45.5	46.3	47.0	46.7	47.7	48.0	46.6	47.3
L1835703-03 WG2470402	30.79	45.3	46.1	46.8	46.5	47.6	47.9	46.5	47.1
L1835703-04 WG2470402	31.05	45.2	46.1	46.8	46.5	47.6	47.9	46.5	47.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0

Monthly Backgrounds 03/25 for G542 Unit 3

Sample ID	Alpha	Beta	LT	Det	Analyst	Start	End	ALPHA CPM	BETA CPM
BG01	85	1657	1000	3A-1		3/1/2025 1:01	3/1/2025 17:41	0.085	1.657
BG02	92	1690	1000	3A-2		3/1/2025 1:01	3/1/2025 17:41	0.092	1.69
BG03	68	1216	1000	3A-3		3/1/2025 1:01	3/1/2025 17:41	0.068	1.216
BG04	62	1701	1000	3A-4		3/1/2025 1:01	3/1/2025 17:41	0.062	1.701
BG05	82	1053	1000	3B-1		3/1/2025 1:01	3/1/2025 17:41	0.082	1.053
BG06	64	995	1000	3B-2		3/1/2025 1:01	3/1/2025 17:41	0.064	0.995
BG07	54	921	1000	3B-3		3/1/2025 1:01	3/1/2025 17:41	0.054	0.921
BG08	94	1956	1000	3B-4		3/1/2025 1:01	3/1/2025 17:41	0.094	1.956
BG09	101	1213	1000	3C-1		3/1/2025 1:01	3/1/2025 17:41	0.101	1.213
BG10	60	1558	1000	3C-2		3/1/2025 1:01	3/1/2025 17:41	0.06	1.558
BG11	62	1398	1000	3C-3		3/1/2025 1:01	3/1/2025 17:41	0.062	1.398
BG12	88	1075	1000	3C-4		3/1/2025 1:01	3/1/2025 17:41	0.088	1.075
BG13	162	1127	1000	3D-1		3/1/2025 1:01	3/1/2025 17:41	0.162	1.127
BG14	69	971	1000	3D-2		3/1/2025 1:01	3/1/2025 17:41	0.069	0.971
BG15	86	1054	1000	3D-3		3/1/2025 1:01	3/1/2025 17:41	0.086	1.054
BG16	159	1215	1000	3D-4		3/1/2025 1:01	3/1/2025 17:41	0.159	1.215

GAS COUNTER G542 Unit: 3 MONTH: Mar-25 BETA BACKGROUND
Beta Background

1 Count Time: 100 min

	3A-1		3A-2		3A-3		3A-4		3B-1		3B-2		3B-3		3B-4		3C-1		3C-2		3C-3		3C-4		3D-1		3D-2		3D-3		3D-4	
DATE	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM
1	165.7	**1.66**	169	**1.69**	121.6	**1.22**	170.1	**1.70**	105.3	**1.05**	99.5	**1.00**	92.1	**0.92**	195.6	**1.96**	121.3	**1.21**	155.8	**1.56**	139.8	**1.40**	107.5	**1.08**	112.7	**1.13**	97.1	**0.97**	105.4	**1.05**	121.5	**1.22**
2																																
3	154	**1.54**	161	**1.61**	94	**0.94**	159	**1.59**	93	**0.93**	78	**0.78**	77	**0.77**	158	**1.58**	102	**1.02**	143	**1.43**	161	**1.61**	115	**1.15**	124	**1.24**	92	**0.92**	106	**1.06**	102	**1.02**
4	170	**1.70**	165	**1.65**	122	**1.22**	137	**1.37**	102	**1.02**	107	**1.07**	98	**0.98**	174	**1.74**	122	**1.22**	161	**1.61**	141	**1.41**	103	**1.03**	104	**1.04**	98	**0.98**	102	**1.02**	106	**1.06**
5	164	**1.64**	156	**1.56**	168	**1.68**	147	**1.47**	94	**0.94**	98	**0.98**	91	**0.91**	185	**1.85**	106	**1.06**	166	**1.66**	182	**1.82**	108	**1.08**	96	**0.96**	95	**0.95**	114	**1.14**	122	**1.22**
6	141	**1.41**	155	**1.55**	116	**1.16**	147	**1.47**	81	**0.81**	86	**0.86**	69	**0.69**	181	**1.81**	117	**1.17**	158	**1.58**	159	**1.59**	96	**0.96**	116	**1.16**	90	**0.90**	100	**1.00**	106	**1.06**
7	161	**1.61**	173	**1.73**	121	**1.21**	167	**1.67**	90	**0.90**	105	**1.05**	97	**0.97**	153	**1.53**	142	**1.42**	146	**1.46**	154	**1.54**	96	**0.96**	81	**0.81**	92	**0.92**	117	**1.17**	115	**1.15**
8																																
9																																
10	131	**1.31**	177	**1.77**	113	**1.13**	147	**1.47**	101	**1.01**	121	**1.21**	79	**0.79**	154	**1.54**	103	**1.03**	169	**1.69**	135	**1.35**	90	**0.90**	100	**1.00**	102	**1.02**	99	**0.99**	127	**1.27**
11	137	**1.37**	144	**1.44**	107	**1.07**	148	**1.48**	104	**1.04**	102	**1.02**	95	**0.95**	185	**1.85**	107	**1.07**	184	**1.84**	148	**1.48**	83	**0.83**	109	**1.09**	105	**1.05**	100	**1.00**	127	**1.27**
12	194	**1.94**	159	**1.59**	130	**1.30**	170	**1.70**	107	**1.07**	108	**1.08**	113	**1.13**	189	**1.89**	145	**1.45**	161	**1.61**	155	**1.55**	94	**0.94**	130	**1.30**	130	**1.30**	106	**1.06**	126	**1.26**
13	177	**1.77**	156	**1.56**	168	**1.68**	170	**1.70**	78	**0.78**	102	**1.02**	97	**0.97**	168	**1.68**	115	**1.15**	159	**1.59**	166	**1.66**	114	**1.14**	115	**1.15**	90	**0.90**	110	**1.10**	105	**1.05**
14	166	**1.66**	175	**1.75**	223	**2.23**	142	**1.42**	117	**1.17**	133	**1.33**	95	**0.95**	209	**2.09**	160	**1.60**	159	**1.59**	150	**1.50**	112	**1.12**	100	**1.00**	123	**1.23**	108	**1.08**	129	**1.29**
15																																
16																																
17	159	**1.59**	146	**1.46**	108	**1.08**	142	**1.42**	102	**1.02**	103	**1.03**	81	**0.81**	156	**1.56**	92	**0.92**	137	**1.37**	144	**1.44**	87	**0.87**	119	**1.19**	111	**1.11**	106	**1.06**	120	**1.20**
18	142	**1.42**	180	**1.80**	132	**1.32**	159	**1.59**	82	**0.82**	109	**1.09**	89	**0.89**	187	**1.87**	106	**1.06**	157	**1.57**	140	**1.40**	87	**0.87**	101	**1.01**	109	**1.09**	93	**0.93**	134	**1.34**
19	163	**1.63**	173	**1.73**	137	**1.37**	151	**1.51**	96	**0.96**	112	**1.12**	92	**0.92**	196	**1.96**	124	**1.24**	143	**1.43**	133	**1.33**	105	**1.05**	109	**1.09**	100	**1.00**	100	**1.00**	93	**0.93**
20	145	**1.45**	182	**1.82**	135	**1.35**	145	**1.45**	94	**0.94**	97	**0.97**	98	**0.98**	184	**1.84**	125	**1.25**	156	**1.56**	136	**1.36**	100	**1.00**	134	**1.34**	118	**1.18**	118	**1.18**	132	**1.32**
21	158	**1.58**	167	**1.67**	131	**1.31**	177	**1.77**	94	**0.94**	101	**1.01**	104	**1.04**	186	**1.86**	107	**1.07**	169	**1.69**	131	**1.31**	120	**1.20**	115	**1.15**	109	**1.09**	95	**0.95**	141	**1.41**
22	173	**1.73**	142	**1.42**	83	**0.83**	165	**1.65**	92	**0.92**	101	**1.01**	84	**0.84**	168	**1.68**	114	**1.14**	159	**1.59**	145	**1.45**	110	**1.10**	102	**1.02**	97	**0.97**	94	**0.94**	123	**1.23**
23																																
24	166	**1.66**	171	**1.71**	255	**2.55**	150	**1.50**	107	**1.07**	95	**0.95**	106	**1.06**	167	**1.67**	102	**1.02**	152	**1.52**	158	**1.58**	96	**0.96**	113	**1.13**	103	**1.03**	99	**0.99**	121	**1.21**
25	206	**2.06**	148	**1.48**	131	**1.31**	164	**1.64**	96	**0.96**	98	**0.98**	94	**0.94**	194	**1.94**	116	**1.16**	142	**1.42**	143	**1.43**	109	**1.09**	113	**1.13**	115	**1.15**	138	**1.38**	141	**1.41**
26	156	**1.56**	166	**1.66**	130	**1.30**	169	**1.69**	120	**1.20**	100	**1.00**	115	**1.15**	149	**1.49**	122	**1.22**	164	**1.64**	161	**1.61**	124	**1.24**	93	**0.93**	101	**1.01**	113	**1.13**	121	**1.21**
27	167	**1.67**	160	**1.60**	113	**1.13**	153	**1.53**	90	**0.90**	82	**0.82**	85	**0.85**	149	**1.49**	100	**1.00**	172	**1.72**	146	**1.46**	82	**0.82**	99	**0.99**	99	**0.99**	92	**0.92**	111	**1.11**
28	142	**1.42**	191	**1.91**	150	**1.50**	157	**1.57**	98	**0.98**	103	**1.03**	101	**1.01**	174	**1.74**	105	**1.05**	140	**1.40**	147	**1.47**	121	**1.21**	122	**1.22**	84	**0.84**	99	**0.99**	108	**1.08**
29																																
30																																
31																																
average	**161**	**1.61**	**164**	**1.64**	**136**	**1.36**	**156**	**1.56**	**97**	**0.97**	**102**	**1.02**	**93**	**0.93**	**176**	**1.76**	**116**	**1.16**	**157**	**1.57**	**149**	**1.49**	**103**	**1.03**	**109**	**1.09**	**103**	**1.03**	**105**	**1.05**	**120**	**1.20**
std dev	18	0.18	13	0.13	39	0.39	11	0.11	11	0.11	12	0.12	11	0.11	17	0.17	16	0.16	12	0.12	12	0.12	13	0.13	13	0.13	11	0.11	10	0.10	13	0.13
UCL	**214**	**2.14**	**203**	**2.03**	**254**	**2.54**	**190**	**1.90**	**129**	**1.29**	**137**	**1.37**	**127**	**1.27**	**227**	**2.27**	**165**	**1.65**	**192**	**1.92**	**186**	**1.86**	**140**	**1.40**	**147**	**1.47**	**137**	**1.37**	**137**	**1.37**	**158**	**1.58**
UWL	**196**	**1.96**	**190**	**1.90**	**214**	**2.14**	**179**	**1.79**	**118**	**1.18**	**125**	**1.25**	**116**	**1.16**	**210**	**2.10**	**149**	**1.49**	**180**	**1.80**	**173**	**1.73**	**128**	**1.28**	**135**	**1.35**	**126**	**1.26**	**126**	**1.26**	**145**	**1.45**
LWL	**125**	**1.25**	**138**	**1.38**	**57**	**0.57**	**133**	**1.33**	**76**	**0.76**	**78**	**0.78**	**71**	**0.71**	**141**	**1.41**	**83**	**0.83**	**134**	**1.34**	**124**	**1.24**	**78**	**0.78**	**84**	**0.84**	**80**	**0.80**	**84**	**0.84**	**94**	**0.94**
LCL	**107**	**1.07**	**125**	**1.25**	**18**	**0.18**	**122**	**1.22**	**66**	**0.66**	**67**	**0.67**	**59**	**0.59**	**124**	**1.24**	**67**	**0.67**	**122**	**1.22**	**112**	**1.12**	**65**	**0.65**	**72**	**0.72**	**68**	**0.68**	**74**	**0.74**	**82**	**0.82**

Data From Previous Month

average	**164.062**	**1.641**	**164.605**	**1.646**	**145.748**	**1.457**	**150.876**	**1.509**	**95.686**	**0.957**	**94.919**	**0.949**	**94.857**	**0.949**	**173.057**	**1.731**	**112.657**	**1.127**	**151.819**	**1.518**	**142.524**	**1.425**	**102.038**	**1.020**	**102.619**	**1.026**	**100.029**	**1.000**	**107.238**	**1.072**	**112.357**	**1.124**
std dev	**14.454**	**0.145**	**14.718**	**0.147**	**41.007**	**0.410**	**15.785**	**0.158**	**10.130**	**0.101**	**14.482**	**0.145**	**9.977**	**0.100**	**17.627**	**0.176**	**11.150**	**0.111**	**16.027**	**0.160**	**13.845**	**0.138**	**11.389**	**0.114**	**11.805**	**0.118**	**13.853**	**0.139**	**14.650**	**0.146**	**13.670**	**0.137**
UCL	**207.424**	**2.074**	**208.758**	**2.088**	**268.769**	**2.688**	**198.230**	**1.982**	**126.075**	**1.261**	**138.365**	**1.384**	**124.789**	**1.248**	**225.939**	**2.259**	**146.106**	**1.461**	**199.899**	**1.999**	**184.058**	**1.841**	**136.206**	**1.362**	**138.035**	**1.380**	**141.586**	**1.416**	**151.187**	**1.512**	**153.367**	**1.534**
UWL	**192.970**	**1.930**	**194.040**	**1.940**	**227.762**	**2.278**	**182.445**	**1.824**	**115.945**	**1.159**	**123.883**	**1.239**	**114.812**	**1.148**	**208.311**	**2.083**	**134.956**	**1.350**	**183.873**	**1.839**	**170.213**	**1.702**	**124.817**	**1.248**	**126.230**	**1.262**	**127.734**	**1.277**	**136.538**	**1.365**	**139.697**	**1.397**
LWL	**135.154**	**1.352**	**135.169**	**1.352**	**63.733**	**0.637**	**119.307**	**1.193**	**75.426**	**0.754**	**65.955**	**0.660**	**74.903**	**0.749**	**137.803**	**1.378**	**90.358**	**0.904**	**119.766**	**1.198**	**114.835**	**1.148**	**79.259**	**0.793**	**79.008**	**0.790**	**72.323**	**0.723**	**77.939**	**0.779**	**85.017**	**0.850**
LCL	**120.700**	**1.207**	**120.452**	**1.205**	**22.726**	**0.227**	**103.522**	**1.035**	**65.296**	**0.653**	**51.473**	**0.515**	**64.926**	**0.649**	**120.176**	**1.202**	**79.208**	**0.792**	**103.739**	**1.037**	**100.990**	**1.010**	**67.870**	**0.679**	**67.203**	**0.672**	**58.471**	**0.585**	**63.289**	**0.633**	**71.348**	**0.713**

GAS COUNTER G542 Unit: 3 MONTH: March-25

Beta Source Check

23F05880

BETA Activity: **7861.05** **dpm** Count Time: **5** **min**

	3A-1		3A-2		3A-3		3A-4		3B-1		3B-2		3B-3		3B-4		3C-1		3C-2		3C-3		3C-4		3D-1		3D-2		3D-3		3D-4	
DATE	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF
1																																
2																																
3	17400	**44.3%**	18066	**46.0%**	17705	**45.0%**	17916	**45.6%**	18175	**46.2%**	16169	**41.1%**	17792	**45.3%**	17796	**45.3%**	16520	**42.0%**	17333	**44.1%**	18382	**46.8%**	16197	**41.2%**	18315	**46.6%**	17874	**45.5%**	18108	**46.1%**	18310	**46.6%**
4	16711	**42.5%**	18134	**46.1%**	16457	**41.9%**	17358	**44.2%**	16176	**41.2%**	18079	**46.0%**	18471	**47.0%**	17214	**43.8%**	17884	**45.5%**	18095	**46.0%**	16972	**43.2%**	18145	**46.2%**	17870	**45.5%**	18013	**45.8%**	17800	**45.3%**	16262	**41.4%**
5	17702	**45.0%**	18398	**46.8%**	16811	**42.8%**	16027	**40.8%**	18250	**46.4%**	17971	**45.7%**	16148	**41.1%**	17001	**43.3%**	16200	**41.2%**	17777	**45.2%**	17856	**45.4%**	18188	**46.3%**	18060	**45.9%**	15882	**40.4%**	16668	**42.4%**	18293	**46.5%**
6	16353	**41.6%**	18166	**46.2%**	16044	**40.8%**	17409	**44.3%**	16065	**40.9%**	17770	**45.2%**	17585	**44.7%**	17556	**44.7%**	18024	**45.9%**	16405	**41.7%**	18278	**46.5%**	17615	**44.8%**	17821	**45.3%**	17770	**45.2%**	16877	**42.9%**	17793	**45.3%**
7	17158	**43.7%**	18321	**46.6%**	16186	**41.2%**	16253	**41.4%**	18142	**46.2%**	18219	**46.4%**	18124	**46.1%**	16722	**42.5%**	18004	**45.8%**	18314	**46.6%**	16659	**42.4%**	17730	**45.1%**	16177	**41.2%**	16360	**41.6%**	17120	**43.6%**	17962	**45.7%**
8																																
9																																
10	17098	**43.5%**	18098	**46.0%**	16085	**40.9%**	18259	**46.5%**	16463	**41.9%**	17980	**45.7%**	16959	**43.1%**	17934	**45.6%**	16168	**41.1%**	18591	**47.3%**	18102	**46.1%**	18014	**45.8%**	16823	**42.8%**	16536	**42.1%**	17904	**45.6%**	17669	**45.0%**
11	16025	**40.8%**	18238	**46.4%**	15702	**39.9%**	16467	**41.9%**	17485	**44.5%**	18042	**45.9%**	17728	**45.1%**	17748	**45.2%**	17818	**45.3%**	18048	**45.9%**	16612	**42.3%**	17916	**45.6%**	17728	**45.1%**	18030	**45.9%**	15893	**40.4%**	17770	**45.2%**
12	15750	**40.1%**	16496	**42.0%**	17599	**44.8%**	16738	**42.6%**	18477	**47.0%**	17818	**45.3%**	17808	**45.3%**	17638	**44.9%**	16202	**41.2%**	18015	**45.8%**	18214	**46.3%**	18233	**46.4%**	18154	**46.2%**	16736	**42.6%**	16053	**40.8%**	16387	**41.7%**
13	17543	**44.6%**	18117	**46.1%**	17885	**45.5%**	16261	**41.4%**	17881	**45.5%**	17109	**43.5%**	18095	**46.0%**	16091	**40.9%**	18340	**46.7%**	16161	**41.1%**	18486	**47.0%**	17546	**44.6%**	17948	**45.7%**	16598	**42.2%**	17559	**44.7%**	17768	**45.2%**
14	16850	**42.9%**	18343	**46.7%**	15932	**40.5%**	18034	**45.9%**	16774	**42.7%**	17899	**45.5%**	17166	**43.7%**	17767	**45.2%**	18013	**45.8%**	17626	**44.8%**	16674	**42.4%**	18212	**46.3%**	15922	**40.5%**	18034	**45.9%**	17041	**43.4%**	16805	**42.8%**
15																																
16																																
17	17111	**43.5%**	18232	**46.4%**	17346	**44.1%**	17623	**44.8%**	18032	**45.9%**	17234	**43.8%**	16502	**42.0%**	17587	**44.7%**	17951	**45.7%**	17643	**44.9%**	18221	**46.4%**	18112	**46.1%**	16149	**41.1%**	18126	**46.1%**	15950	**40.6%**	17761	**45.2%**
18	17561	**44.7%**	18649	**47.4%**	16026	**40.8%**	17487	**44.5%**	18435	**46.9%**	16493	**42.0%**	18170	**46.2%**	17396	**44.3%**	17853	**45.4%**	16733	**42.6%**	17437	**44.4%**	17792	**45.3%**	16813	**42.8%**	18060	**45.9%**	15951	**40.6%**	18316	**46.6%**
19	17473	**44.5%**	18074	**46.0%**	16306	**41.5%**	18035	**45.9%**	17961	**45.7%**	16277	**41.4%**	18105	**46.1%**	17723	**45.1%**	18667	**47.5%**	16514	**42.0%**	17028	**43.3%**	18359	**46.7%**	18184	**46.3%**	17836	**45.4%**	17921	**45.6%**	16297	**41.5%**
20	17645	**44.9%**	16607	**42.3%**	16006	**40.7%**	17692	**45.0%**	16262	**41.4%**	17812	**45.3%**	17762	**45.2%**	16726	**42.6%**	18318	**46.6%**	18462	**47.0%**	18169	**46.2%**	17798	**45.3%**	18117	**46.1%**	16787	**42.7%**	17653	**44.9%**	16668	**42.4%**
21	16895	**43.0%**	18246	**46.4%**	17187	**43.7%**	18162	**46.2%**	16252	**41.3%**	16845	**42.9%**	18583	**47.3%**	16306	**41.5%**	16632	**42.3%**	18427	**46.9%**	18026	**45.9%**	17900	**45.5%**	18318	**46.6%**	18077	**46.0%**	17344	**44.1%**	18141	**46.2%**
22	15739	**40.0%**	18101	**46.1%**	16326	**41.5%**	16883	**43.0%**	18215	**46.3%**	17274	**43.9%**	18024	**45.9%**	17733	**45.1%**	16334	**41.6%**	16943	**43.1%**	16389	**41.7%**	17896	**45.5%**	18189	**46.3%**	17874	**45.5%**	18076	**46.0%**	17341	**44.1%**
23																																
24	17444	**44.4%**	18046	**45.9%**	15901	**40.5%**	18207	**46.3%**	18345	**46.7%**	16037	**40.8%**	18003	**45.8%**	16020	**40.8%**	18478	**47.0%**	18440	**46.9%**	17977	**45.7%**	16944	**43.1%**	16997	**43.2%**	17454	**44.4%**	18283	**46.5%**	18203	**46.3%**
25	17497	**44.5%**	16442	**41.8%**	17449	**44.4%**	18173	**46.2%**	16189	**41.2%**	18312	**46.6%**	17859	**45.4%**	17506	**44.5%**	18450	**46.9%**	17936	**45.6%**	18367	**46.7%**	16427	**41.8%**	17683	**45.0%**	17982	**45.7%**	17863	**45.4%**	16342	**41.6%**
26	16865	**42.9%**	16575	**42.2%**	16073	**40.9%**	18091	**46.0%**	16941	**43.1%**	17933	**45.6%**	18215	**46.3%**	17324	**44.1%**	18033	**45.9%**	16098	**41.0%**	17874	**45.5%**	18165	**46.2%**	17734	**45.1%**	16968	**43.2%**	17404	**44.3%**	18107	**46.1%**
27	17586	**44.7%**	18645	**47.4%**	17491	**44.5%**	17921	**45.6%**	16227	**41.3%**	18107	**46.1%**	16542	**42.1%**	17477	**44.5%**	17748	**45.2%**	16340	**41.6%**	17624	**44.8%**	17762	**45.2%**	16020	**40.8%**	17982	**45.7%**	18132	**46.1%**	17912	**45.6%**
28	15648	**39.8%**	17271	**43.9%**	17799	**45.3%**	17431	**44.3%**	17969	**45.7%**	16176	**41.2%**	17736	**45.1%**	17392	**44.2%**	17841	**45.4%**	17722	**45.1%**	18364	**46.7%**	16174	**41.1%**	18190	**46.3%**	17761	**45.2%**	16219	**41.3%**	16782	**42.7%**
29																																
30																																
31																																
average	**16955**	**43.1%**	**17870**	**45.5%**	**16682**	**42.4%**	**17448.9**	**44.4%**	**17367.4**	**44.2%**	**17407.4**	**44.3%**	**17684.6**	**45.0%**	**17269**	**43.9%**	**17594**	**44.8%**	**17506**	**44.5%**	**17701**	**45.0%**	**17673**	**45.0%**	**17486**	**44.5%**	**17464**	**44.4%**	**17229**	**43.8%**	**17471**	**44.4%**
std dev	677	1.72%	718	0.02	750	0.02	727	0.02	926	0.02	773	0.02	657	0.02	575	0.01	850	2.16%	836	0.02	691	0.02	665	0.02	833	2.12%	703	0.02	817	0.021	748	0.019
UCL	**18987**	**48.3%**	**20024**	**50.9%**	**18932**	**48.2%**	**19628**	**49.9%**	**20144**	**51.3%**	**19726**	**50.2%**	**19656**	**50.0%**	**18995**	**48.3%**	**20145**	**51.3%**	**20015**	**50.9%**	**19774**	**50.3%**	**19668**	**50.0%**	**19986**	**50.8%**	**19572**	**49.8%**	**19681**	**50.1%**	**19715**	**50.2%**
UWL	**18310**	**46.6%**	**19306**	**49.1%**	**18182**	**46.3%**	**18902**	**48.1%**	**19219**	**48.9%**	**18953**	**48.2%**	**18999**	**48.3%**	**18420**	**46.9%**	**19295**	**49.1%**	**19179**	**48.8%**	**19083**	**48.6%**	**19003**	**48.3%**	**19153**	**48.7%**	**18869**	**48.0%**	**18864**	**48.0%**	**18967**	**48.3%**
LWL	**15600**	**39.7%**	**16434**	**41.8%**	**15181**	**38.6%**	**15996**	**40.7%**	**15516**	**39.5%**	**15862**	**40.4%**	**16370**	**41.6%**	**16119**	**41.0%**	**15893**	**40.4%**	**15833**	**40.3%**	**16318**	**41.5%**	**16343**	**41.6%**	**15820**	**40.2%**	**16058**	**40.9%**	**15595**	**39.7%**	**15975**	**40.6%**
LCL	**14923**	**38.0%**	**15715**	**40.0%**	**14431**	**36.7%**	**15269**	**38.8%**	**14591**	**37.1%**	**15089**	**38.4%**	**15713**	**40.0%**	**15544**	**39.5%**	**15043**	**38.3%**	**14996**	**38.2%**	**15627**	**39.8%**	**15678**	**39.9%**	**14986**	**38.1%**	**15356**	**39.1%**	**14778**	**37.6%**	**15227**	**38.7%**

Data From Previous Month

average	########	**43.06%**	########	**46.09%**	########	**42.43%**	########	**44.14%**	########	**44.46%**	########	**44.02%**	########	**43.88%**	########	**43.81%**	########	**45.04%**	########	**44.65%**	########	**45.60%**	########	**44.69%**	########	**44.22%**	########	**44.08%**	########	**43.28%**	########	**43.95%**
std dev	########	**1.89%**	########	**1.47%**	########	**1.97%**	########	**1.84%**	########	**1.75%**	########	**2.23%**	########	**2.17%**	########	**1.84%**	########	**1.65%**	########	**1.89%**	########	**1.47%**	########	**1.79%**	########	**1.71%**	########	**1.69%**	########	**1.62%**	########	**1.85%**
UCL	########	**48.73%**	########	**50.51%**	########	**48.33%**	########	**49.67%**	########	**49.72%**	########	**50.70%**	########	**50.39%**	########	**49.34%**	########	**49.98%**	########	**50.31%**	########	**50.00%**	########	**50.06%**	########	**49.35%**	########	**49.15%**	########	**48.14%**	########	**49.48%**
UWL	########	**46.84%**	########	**49.04%**	########	**46.37%**	########	**47.82%**	########	**47.96%**	########	**48.48%**	########	**48.22%**	########	**47.50%**	########	**48.34%**	########	**48.42%**	########	**48.53%**	########	**48.27%**	########	**47.64%**	########	**47.46%**	########	**46.52%**	########	**47.64%**
LWL	########	**39.27%**	########	**43.14%**	########	**38.50%**	########	**40.46%**	########	**40.95%**	########	**39.57%**	########	**39.55%**	########	**40.13%**	########	**41.75%**	########	**40.88%**	########	**42.67%**	########	**41.12%**	########	**40.79%**	########	**40.71%**	########	**40.04%**	########	**40.26%**
LCL	########	**37.38%**	########	**41.66%**	########	**36.53%**	########	**38.61%**	########	**39.19%**	########	**37.34%**	########	**37.38%**	########	**38.29%**	########	**40.10%**	########	**38.99%**	########	**41.20%**	########	**39.33%**	########	**39.08%**	########	**39.02%**	########	**38.42%**	########	**38.41%**

Monthly Backgrounds 03/01/25 for G542 Unit 4

Sample ID	Alpha	Beta	LT	Det	Analyst	Start	End	ALPHA CPM	BETA CPM
BK01	175	1148	1000	4A-1		2/28/2025 23:15	3/1/2025 15:55	0.175	1.148
BK02	129	1877	1000	4A-2		2/28/2025 23:15	3/1/2025 15:55	0.129	1.877
BK03	58	1470	1000	4A-3		2/28/2025 23:15	3/1/2025 15:55	0.058	1.47
BK04	46	1757	1000	4A-4		2/28/2025 23:15	3/1/2025 15:55	0.046	1.757
BK05	140	1973	1000	4B-1		2/28/2025 23:15	3/1/2025 15:55	0.14	1.973
BK06	74	1795	1000	4B-2		2/28/2025 23:15	3/1/2025 15:55	0.074	1.795
BK07	156	1747	1000	4B-3		2/28/2025 23:15	3/1/2025 15:55	0.156	1.747
BK08	78	2138	1000	4B-4		2/28/2025 23:15	3/1/2025 15:55	0.078	2.138
BK09	97	1915	1000	4C-1		2/28/2025 23:15	3/1/2025 15:55	0.097	1.915
BK10	169	1578	1000	4C-2		2/28/2025 23:15	3/1/2025 15:55	0.169	1.578
BK11	133	1631	1000	4C-3		2/28/2025 23:15	3/1/2025 15:55	0.133	1.631
BK12	43	1367	1000	4C-4		2/28/2025 23:15	3/1/2025 15:55	0.043	1.367
BK13	91	954	1000	4D-1		2/28/2025 23:15	3/1/2025 15:55	0.091	0.954
BK14	30	885	1000	4D-2		2/28/2025 23:15	3/1/2025 15:55	0.03	0.885
BK15	32	854	1000	4D-3		2/28/2025 23:15	3/1/2025 15:55	0.032	0.854
BK16	33	889	1000	4D-4		2/28/2025 23:15	3/1/2025 15:55	0.033	0.889

GAS COUNTER G542 Unit: 4 MONTH: Mar-25 BETA BACKGROUND
Beta Background

1 Count Time: 100 min

	4A-1		4A-2		4A-3		4A-4		4B-1		4B-2		4B-3		4B-4		4C-1		4C-2		4C-3		4C-4		4D-1		4D-2		4D-3		4D-4	
DATE	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM
1	114.8	**1.15**	187.7	**1.88**	147	**1.47**	175.7	**1.76**	197.3	**1.97**	179.5	**1.80**	174.7	**1.75**	213.8	**2.14**	191.5	**1.92**	157.8	**1.58**	163.1	**1.63**	136.7	**1.37**	95.4	**0.95**	88.5	**0.89**	85.4	**0.85**	88.9	**0.89**
2																																
3	106	**1.06**	178	**1.78**	120	**1.20**	178	**1.78**	186	**1.86**	177	**1.77**	191	**1.91**	213	**2.13**	178	**1.78**	179	**1.79**	161	**1.61**	156	**1.56**	94	**0.94**	81	**0.81**	71	**0.71**	93	**0.93**
4	98	**0.98**	201	**2.01**	140	**1.40**	157	**1.57**	183	**1.83**	170	**1.70**	186	**1.86**	213	**2.13**	219	**2.19**	169	**1.69**	161	**1.61**	136	**1.36**	89	**0.89**	125	**1.25**	87	**0.87**	77	**0.77**
5	121	**1.21**	210	**2.10**	155	**1.55**	182	**1.82**	208	**2.08**	173	**1.73**	191	**1.91**	224	**2.24**	211	**2.11**	177	**1.77**	169	**1.69**	166	**1.66**	93	**0.93**	95	**0.95**	108	**1.08**	87	**0.87**
6	121	**1.21**	163	**1.63**	133	**1.33**	170	**1.70**	185	**1.85**	163	**1.63**	197	**1.97**	188	**1.88**	192	**1.92**	174	**1.74**	182	**1.82**	132	**1.32**	106	**1.06**	80	**0.80**	87	**0.87**	95	**0.95**
7	137	**1.37**	179	**1.79**	138	**1.38**	174	**1.74**	200	**2.00**	198	**1.98**	190	**1.90**	232	**2.32**	195	**1.95**	184	**1.84**	151	**1.51**	156	**1.56**	124	**1.24**	102	**1.02**	93	**0.93**	91	**0.91**
8																																
9																																
10	98	**0.98**	186	**1.86**	132	**1.32**	197	**1.97**	163	**1.63**	172	**1.72**	171	**1.71**	220	**2.20**	196	**1.96**	177	**1.77**	174	**1.74**	107	**1.07**	109	**1.09**	86	**0.86**	73	**0.73**	87	**0.87**
11	131	**1.31**	185	**1.85**	146	**1.46**	156	**1.56**	177	**1.77**	165	**1.65**	194	**1.94**	225	**2.25**	200	**2.00**	166	**1.66**	178	**1.78**	156	**1.56**	123	**1.23**	102	**1.02**	96	**0.96**	86	**0.86**
12	117	**1.17**	177	**1.77**	128	**1.28**	162	**1.62**	182	**1.82**	194	**1.94**	203	**2.03**	183	**1.83**	203	**2.03**	166	**1.66**	169	**1.69**	165	**1.65**	126	**1.26**	103	**1.03**	116	**1.16**	103	**1.03**
13	132	**1.32**	213	**2.13**	121	**1.21**	197	**1.97**	180	**1.80**	207	**2.07**	186	**1.86**	206	**2.06**	209	**2.09**	203	**2.03**	157	**1.57**	136	**1.36**	112	**1.12**	93	**0.93**	89	**0.89**	99	**0.99**
14	145	**1.45**	198	**1.98**	173	**1.73**	168	**1.68**	202	**2.02**	186	**1.86**	192	**1.92**	228	**2.28**	213	**2.13**	189	**1.89**	164	**1.64**	150	**1.50**	113	**1.13**	96	**0.96**	101	**1.01**	109	**1.09**
15																																
16																																
17	111	**1.11**	190	**1.90**	133	**1.33**	172	**1.72**	173	**1.73**	200	**2.00**	175	**1.75**	208	**2.08**	176	**1.76**	184	**1.84**	156	**1.56**	141	**1.41**	97	**0.97**	111	**1.11**	100	**1.00**	95	**0.95**
18	122	**1.22**	172	**1.72**	133	**1.33**	182	**1.82**	179	**1.79**	185	**1.85**	179	**1.79**	189	**1.89**	178	**1.78**	183	**1.83**	184	**1.84**	156	**1.56**	115	**1.15**	82	**0.82**	79	**0.79**	91	**0.91**
19	126	**1.26**	167	**1.67**	145	**1.45**	159	**1.59**	183	**1.83**	163	**1.63**	186	**1.86**	186	**1.86**	236	**2.36**	169	**1.69**	154	**1.54**	149	**1.49**	98	**0.98**	97	**0.97**	74	**0.74**	109	**1.09**
20	135	**1.35**	179	**1.79**	158	**1.58**	179	**1.79**	200	**2.00**	168	**1.68**	168	**1.68**	189	**1.89**	194	**1.94**	173	**1.73**	176	**1.76**	161	**1.61**	114	**1.14**	84	**0.84**	105	**1.05**	99	**0.99**
21	119	**1.19**	206	**2.06**	138	**1.38**	189	**1.89**	216	**2.16**	185	**1.85**	194	**1.94**	172	**1.72**	209	**2.09**	178	**1.78**	173	**1.73**	156	**1.56**	112	**1.12**	104	**1.04**	113	**1.13**	121	**1.21**
22	110	**1.10**	193	**1.93**	150	**1.50**	186	**1.86**	202	**2.02**	175	**1.75**	175	**1.75**	225	**2.25**	178	**1.78**	178	**1.78**	189	**1.89**	149	**1.49**	92	**0.92**	108	**1.08**	95	**0.95**	103	**1.03**
23																																
24	110	**1.10**	176	**1.76**	146	**1.46**	170	**1.70**	190	**1.90**	176	**1.76**	177	**1.77**	221	**2.21**	207	**2.07**	180	**1.80**	171	**1.71**	142	**1.42**	105	**1.05**	80	**0.80**	98	**0.98**	75	**0.75**
25	125	**1.25**	172	**1.72**	128	**1.28**	179	**1.79**	185	**1.85**	153	**1.53**	172	**1.72**	230	**2.30**	185	**1.85**	165	**1.65**	195	**1.95**	134	**1.34**	101	**1.01**	93	**0.93**	88	**0.88**	106	**1.06**
26	140	**1.40**	180	**1.80**	148	**1.48**	180	**1.80**	171	**1.71**	203	**2.03**	158	**1.58**	217	**2.17**	184	**1.84**	178	**1.78**	187	**1.87**	132	**1.32**	103	**1.03**	96	**0.96**	88	**0.88**	106	**1.06**
27	140	**1.40**	180	**1.80**	148	**1.48**	180	**1.80**	171	**1.71**	203	**2.03**	158	**1.58**	217	**2.17**	184	**1.84**	178	**1.78**	187	**1.87**	132	**1.32**	103	**1.03**	96	**0.96**	88	**0.88**	106	**1.06**
28	129	**1.29**	156	**1.56**	137	**1.37**	184	**1.84**	167	**1.67**	174	**1.74**	132	**1.32**	213	**2.13**	202	**2.02**	161	**1.61**	148	**1.48**	133	**1.33**	105	**1.05**	110	**1.10**	94	**0.94**	80	**0.80**
29																																
30																																
31																																
average	**122**	**1.22**	**184**	**1.84**	**141**	**1.41**	**176**	**1.76**	**186**	**1.86**	**180**	**1.80**	**180**	**1.80**	**210**	**2.10**	**197**	**1.97**	**176**	**1.76**	**170**	**1.70**	**145**	**1.45**	**106**	**1.06**	**96**	**0.96**	**92**	**0.92**	**96**	**0.96**
std dev	13	0.13	15	0.15	12	0.12	11	0.11	14	0.14	15	0.15	16	0.16	17	0.17	15	0.15	10	0.10	13	0.13	14	0.14	11	0.11	12	0.12	12	0.12	12	0.12
UCL	**162**	**1.62**	**229**	**2.29**	**178**	**1.78**	**210**	**2.10**	**228**	**2.28**	**226**	**2.26**	**228**	**2.28**	**262**	**2.62**	**244**	**2.44**	**206**	**2.06**	**210**	**2.10**	**187**	**1.87**	**138**	**1.38**	**131**	**1.31**	**129**	**1.29**	**130**	**1.30**
UWL	**149**	**1.49**	**214**	**2.14**	**166**	**1.66**	**199**	**1.99**	**214**	**2.14**	**211**	**2.11**	**212**	**2.12**	**244**	**2.44**	**228**	**2.28**	**196**	**1.96**	**197**	**1.97**	**173**	**1.73**	**127**	**1.27**	**119**	**1.19**	**116**	**1.16**	**119**	**1.19**
LWL	**96**	**0.96**	**154**	**1.54**	**116**	**1.16**	**153**	**1.53**	**158**	**1.58**	**150**	**1.50**	**147**	**1.47**	**175**	**1.75**	**166**	**1.66**	**156**	**1.56**	**144**	**1.44**	**116**	**1.16**	**85**	**0.85**	**73**	**0.73**	**68**	**0.68**	**73**	**0.73**
LCL	**82**	**0.82**	**139**	**1.39**	**103**	**1.03**	**142**	**1.42**	**144**	**1.44**	**135**	**1.35**	**131**	**1.31**	**158**	**1.58**	**151**	**1.51**	**146**	**1.46**	**130**	**1.30**	**102**	**1.02**	**74**	**0.74**	**61**	**0.61**	**56**	**0.56**	**61**	**0.61**

Data From Previous Month

average	**121**	**1.212**	**176**	**1.760**	**139**	**1.390**	**167**	**1.665**	**191**	**1.911**	**170**	**1.696**	**182**	**1.818**	**207**	**2.071**	**196**	**1.955**	**169**	**1.689**	**161**	**1.611**	**140**	**1.397**	**100**	**1.004**	**96**	**0.956**	**92**	**0.917**	**92**	**0.918**
std dev	**11**	**0.112**	**15**	**0.151**	**12**	**0.124**	**16**	**0.155**	**16**	**0.157**	**14**	**0.135**	**18**	**0.179**	**16**	**0.165**	**17**	**0.173**	**13**	**0.128**	**12**	**0.123**	**12**	**0.122**	**15**	**0.152**	**13**	**0.132**	**15**	**0.149**	**12**	**0.116**
UCL	**155**	**1.549**	**221**	**2.212**	**176**	**1.763**	**213**	**2.131**	**238**	**2.382**	**210**	**2.102**	**236**	**2.356**	**257**	**2.565**	**247**	**2.473**	**207**	**2.072**	**198**	**1.979**	**176**	**1.764**	**146**	**1.462**	**135**	**1.352**	**136**	**1.364**	**127**	**1.266**
UWL	**144**	**1.437**	**206**	**2.061**	**164**	**1.638**	**198**	**1.976**	**223**	**2.225**	**197**	**1.967**	**218**	**2.176**	**240**	**2.401**	**230**	**2.301**	**194**	**1.944**	**186**	**1.856**	**164**	**1.642**	**131**	**1.309**	**122**	**1.220**	**122**	**1.215**	**115**	**1.150**
LWL	**99**	**0.988**	**146**	**1.458**	**114**	**1.142**	**135**	**1.354**	**160**	**1.597**	**143**	**1.425**	**146**	**1.460**	**174**	**1.741**	**161**	**1.610**	**143**	**1.433**	**137**	**1.366**	**115**	**1.152**	**70**	**0.699**	**69**	**0.692**	**62**	**0.619**	**69**	**0.687**
LCL	**88**	**0.876**	**131**	**1.307**	**102**	**1.017**	**120**	**1.199**	**144**	**1.440**	**129**	**1.290**	**128**	**1.281**	**158**	**1.576**	**144**	**1.437**	**130**	**1.305**	**124**	**1.244**	**103**	**1.029**	**55**	**0.547**	**56**	**0.560**	**47**	**0.470**	**57**	**0.571**

GAS COUNTER G542 Unit: 4 MONTH: March-25
Beta Source Check
23F05880

BETA Activity: **7861.05** **dpm** Count Time: **5** **min**

	4A-1		4A-2		4A-3		4A-4		4B-1		4B-2		4B-3		4B-4		4C-1		4C-2		4C-3		4C-4		4D-1		4D-2		4D-3		4D-4	
DATE	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF
1																																
2																																
3	16118	**41.0%**	17790	**45.3%**	15980	**40.7%**	16945	**43.1%**	16156	**41.1%**	18079	**46.0%**	18024	**45.9%**	17471	**44.4%**	16792	**42.7%**	17356	**44.2%**	17050	**43.4%**	17348	**44.1%**	16425	**41.8%**	18115	**46.1%**	16412	**41.8%**	16868	**42.9%**
4	16239	**41.3%**	17927	**45.6%**	17361	**44.2%**	16541	**42.1%**	17511	**44.6%**	18213	**46.3%**	18026	**45.9%**	17211	**43.8%**	16899	**43.0%**	16864	**42.9%**	15979	**40.7%**	17652	**44.9%**	17523	**44.6%**	17117	**43.5%**	17851	**45.4%**	17828	**45.4%**
5	16276	**41.4%**	17371	**44.2%**	17489	**44.5%**	18321	**46.6%**	16849	**42.9%**	16500	**42.0%**	18316	**46.6%**	17902	**45.5%**	15853	**40.3%**	17447	**44.4%**	17851	**45.4%**	17761	**45.2%**	17239	**43.9%**	18213	**46.3%**	16151	**41.1%**	17462	**44.4%**
6	16009	**40.7%**	16597	**42.2%**	17519	**44.6%**	16390	**41.7%**	16125	**41.0%**	18384	**46.8%**	18504	**47.1%**	17834	**45.4%**	16382	**41.7%**	17125	**43.6%**	17446	**44.4%**	17691	**45.0%**	17934	**45.6%**	18211	**46.3%**	16255	**41.4%**	17391	**44.2%**
7	17441	**44.4%**	18153	**46.2%**	16185	**41.2%**	18539	**47.2%**	16458	**41.9%**	18387	**46.8%**	18133	**46.1%**	17672	**45.0%**	15432	**39.3%**	17180	**43.7%**	15745	**40.1%**	17559	**44.7%**	16114	**41.0%**	17910	**45.6%**	17738	**45.1%**	17791	**45.3%**
8																																
9																																
10	17457	**44.4%**	15856	**40.3%**	17593	**44.8%**	18328	**46.6%**	17939	**45.6%**	17768	**45.2%**	16777	**42.7%**	17109	**43.5%**	16324	**41.5%**	16913	**43.0%**	15674	**39.9%**	18048	**45.9%**	16022	**40.8%**	17123	**43.6%**	17474	**44.5%**	17930	**45.6%**
11	17418	**44.3%**	17351	**44.1%**	17418	**44.3%**	17703	**45.0%**	17798	**45.3%**	18058	**45.9%**	16378	**41.7%**	18144	**46.2%**	16514	**42.0%**	17194	**43.7%**	17270	**43.9%**	17576	**44.7%**	15983	**40.7%**	16094	**40.9%**	16610	**42.3%**	17317	**44.1%**
12	17221	**43.8%**	17910	**45.6%**	15701	**39.9%**	18433	**46.9%**	17378	**44.2%**	17802	**45.3%**	18569	**47.2%**	17624	**44.8%**	15763	**40.1%**	15674	**39.9%**	15988	**40.7%**	18067	**46.0%**	17265	**43.9%**	16310	**41.5%**	18178	**46.2%**	17895	**45.5%**
13	17647	**44.9%**	17579	**44.7%**	17378	**44.2%**	16308	**41.5%**	17264	**43.9%**	16469	**41.9%**	17845	**45.4%**	17037	**43.3%**	16794	**42.7%**	15765	**40.1%**	17508	**44.5%**	17926	**45.6%**	17635	**44.9%**	17927	**45.6%**	17976	**45.7%**	16244	**41.3%**
14	17668	**45.0%**	17673	**45.0%**	17310	**44.0%**	16501	**42.0%**	17887	**45.5%**	18417	**46.9%**	16491	**42.0%**	17906	**45.6%**	15366	**39.1%**	15748	**40.1%**	17538	**44.6%**	17551	**44.7%**	17681	**45.0%**	16693	**42.5%**	17913	**45.6%**	17489	**44.5%**
15																																
16																																
17	15928	**40.5%**	16544	**42.1%**	16148	**41.1%**	18223	**46.4%**	17593	**44.8%**	17765	**45.2%**	17816	**45.3%**	17784	**45.2%**	16603	**42.2%**	15660	**39.8%**	17653	**44.9%**	17290	**44.0%**	17347	**44.1%**	16319	**41.5%**	16042	**40.8%**	17081	**43.5%**
18	17253	**43.9%**	15736	**40.0%**	15718	**40.0%**	17789	**45.3%**	18027	**45.9%**	16419	**41.8%**	17259	**43.9%**	17366	**44.2%**	17171	**43.7%**	16951	**43.1%**	17666	**44.9%**	17581	**44.7%**	16202	**41.2%**	18323	**46.6%**	17676	**45.0%**	16041	**40.8%**
19	17687	**45.0%**	16418	**41.8%**	15980	**40.7%**	16550	**42.1%**	17490	**44.5%**	17963	**45.7%**	17669	**45.0%**	18212	**46.3%**	17118	**43.6%**	17009	**43.3%**	15612	**39.7%**	17743	**45.1%**	17293	**44.0%**	18267	**46.5%**	17762	**45.2%**	17748	**45.2%**
20	15825	**40.3%**	17499	**44.5%**	16102	**41.0%**	18057	**45.9%**	17678	**45.0%**	18453	**46.9%**	18020	**45.8%**	18131	**46.1%**	15169	**38.6%**	16220	**41.3%**	17386	**44.2%**	17157	**43.7%**	16946	**43.1%**	17974	**45.7%**	17730	**45.1%**	18083	**46.0%**
21	18017	**45.8%**	16081	**40.9%**	15782	**40.2%**	17128	**43.6%**	17452	**44.4%**	18182	**46.3%**	16546	**42.1%**	18023	**45.9%**	16730	**42.6%**	17471	**44.4%**	17343	**44.1%**	17359	**44.2%**	16019	**40.8%**	16366	**41.6%**	17898	**45.5%**	16023	**40.8%**
22	17686	**45.0%**	17210	**43.8%**	17486	**44.5%**	16262	**41.4%**	17578	**44.7%**	18481	**47.0%**	18466	**47.0%**	17732	**45.1%**	15242	**38.8%**	15312	**39.0%**	16821	**42.8%**	18304	**46.6%**	16994	**43.2%**	16208	**41.2%**	17975	**45.7%**	17628	**44.8%**
23																																
24	17286	**44.0%**	16283	**41.4%**	16541	**42.1%**	16524	**42.0%**	17612	**44.8%**	18275	**46.5%**	18590	**47.3%**	17385	**44.2%**	16756	**42.6%**	15608	**39.7%**	17358	**44.2%**	17663	**44.9%**	16318	**41.5%**	17885	**45.5%**	16123	**41.0%**	16377	**41.7%**
25	17398	**44.3%**	16411	**41.8%**	17660	**44.9%**	16526	**42.0%**	16142	**41.1%**	17952	**45.7%**	17889	**45.5%**	17744	**45.1%**	16193	**41.2%**	17131	**43.6%**	16045	**40.8%**	17943	**45.7%**	16899	**43.0%**	16415	**41.8%**	17790	**45.3%**	16708	**42.5%**
26	16018	**40.8%**	17322	**44.1%**	16268	**41.4%**	18014	**45.8%**	18037	**45.9%**	16685	**42.4%**	18237	**46.4%**	17836	**45.4%**	16452	**41.9%**	15391	**39.2%**	17322	**44.1%**	17369	**44.2%**	16980	**43.2%**	16683	**42.4%**	17702	**45.0%**	18005	**45.8%**
27	17857	**45.4%**	17538	**44.6%**	17595	**44.8%**	18027	**45.9%**	17547	**44.6%**	16240	**41.3%**	18016	**45.8%**	17698	**45.0%**	16255	**41.4%**	15523	**39.5%**	16392	**41.7%**	16347	**41.6%**	16568	**42.2%**	17792	**45.3%**	17857	**45.4%**	16157	**41.1%**
28	17081	**43.5%**	17539	**44.6%**	17237	**43.9%**	16055	**40.8%**	16163	**41.1%**	17737	**45.1%**	18395	**46.8%**	16781	**42.7%**	16413	**41.8%**	16082	**40.9%**	17858	**45.4%**	17285	**44.0%**	17273	**43.9%**	16328	**41.5%**	17629	**44.9%**	17543	**44.6%**
29																																
30																																
31																																
average	**17025**	**43.3%**	**17085**	**43.5%**	**16783**	**42.7%**	**17293.5**	**44.0%**	**17270.7**	**43.9%**	**17725.2**	**45.1%**	**17807.9**	**45.3%**	**17648**	**44.9%**	**16296**	**41.5%**	**16458**	**41.9%**	**16929**	**43.1%**	**17582**	**44.7%**	**16889**	**43.0%**	**17251**	**43.9%**	**17369**	**44.2%**	**17219**	**43.8%**
std dev	737	1.87%	736	0.02	753	0.02	876	0.02	666	0.02	762	0.02	705	0.02	385	0.01	607	1.54%	780	0.02	781	0.02	408	0.01	614	1.56%	839	0.02	736	0.019	698	0.018
UCL	**19236**	**48.9%**	**19293**	**49.1%**	**19042**	**48.4%**	**19922**	**50.7%**	**19268**	**49.0%**	**20013**	**50.9%**	**19924**	**50.7%**	**18803**	**47.8%**	**18118**	**46.1%**	**18799**	**47.8%**	**19270**	**49.0%**	**18807**	**47.8%**	**18729**	**47.7%**	**19767**	**50.3%**	**19578**	**49.8%**	**19315**	**49.1%**
UWL	**18499**	**47.1%**	**18557**	**47.2%**	**18289**	**46.5%**	**19046**	**48.5%**	**18602**	**47.3%**	**19250**	**49.0%**	**19218**	**48.9%**	**18418**	**46.9%**	**17510**	**44.5%**	**18019**	**45.8%**	**18490**	**47.0%**	**18399**	**46.8%**	**18116**	**46.1%**	**18928**	**48.2%**	**18842**	**47.9%**	**18616**	**47.4%**
LWL	**15552**	**39.6%**	**15613**	**39.7%**	**15277**	**38.9%**	**15541**	**39.5%**	**15939**	**40.6%**	**16200**	**41.2%**	**16397**	**41.7%**	**16878**	**42.9%**	**15082**	**38.4%**	**14898**	**37.9%**	**15368**	**39.1%**	**16765**	**42.7%**	**15661**	**39.8%**	**15574**	**39.6%**	**15896**	**40.4%**	**15823**	**40.3%**
LCL	**14815**	**37.7%**	**14877**	**37.8%**	**14524**	**37.0%**	**14665**	**37.3%**	**15273**	**38.9%**	**15438**	**39.3%**	**15692**	**39.9%**	**16493**	**42.0%**	**14475**	**36.8%**	**14118**	**35.9%**	**14587**	**37.1%**	**16357**	**41.6%**	**15048**	**38.3%**	**14735**	**37.5%**	**15159**	**38.6%**	**15124**	**38.5%**

Data From Previous Month

average	**16832**	**42.74%**	**17313**	**43.96%**	**17196**	**43.67%**	**17610**	**44.72%**	**17356**	**44.08%**	**17633**	**44.78%**	**17473**	**44.37%**	**17523**	**44.50%**	**16578**	**42.10%**	**16676**	**42.35%**	**16847**	**42.78%**	**17726**	**45.01%**	**17166**	**43.59%**	**17425**	**44.25%**	**17333**	**44.02%**	**17428**	**44.26%**
std dev	**804**	**2.04%**	**552**	**1.40%**	**490**	**1.24%**	**773**	**1.96%**	**667**	**1.69%**	**831**	**2.11%**	**860**	**2.18%**	**685**	**1.74%**	**604**	**1.53%**	**826**	**2.10%**	**792**	**2.01%**	**668**	**1.70%**	**670**	**1.70%**	**693**	**1.76%**	**787**	**2.00%**	**779**	**1.98%**
UCL	**19244**	**48.87%**	**18967**	**48.17%**	**18666**	**47.40%**	**19928**	**50.61%**	**19356**	**49.15%**	**20126**	**51.11%**	**20052**	**50.92%**	**19578**	**49.72%**	**18389**	**46.70%**	**19152**	**48.64%**	**19222**	**48.81%**	**19729**	**50.10%**	**19177**	**48.70%**	**19504**	**49.53%**	**19694**	**50.01%**	**19765**	**50.19%**
UWL	**18440**	**46.83%**	**18416**	**46.77%**	**18176**	**46.16%**	**19155**	**48.64%**	**18690**	**47.46%**	**19295**	**49.00%**	**19192**	**48.74%**	**18893**	**47.98%**	**17785**	**45.17%**	**18327**	**46.54%**	**18431**	**46.80%**	**19061**	**48.41%**	**18507**	**47.00%**	**18811**	**47.77%**	**18907**	**48.01%**	**18986**	**48.21%**
LWL	**15225**	**38.66%**	**16210**	**41.16%**	**16215**	**41.18%**	**16065**	**40.80%**	**16023**	**40.69%**	**15971**	**40.56%**	**15754**	**40.01%**	**16153**	**41.02%**	**15370**	**39.03%**	**15025**	**38.15%**	**15264**	**38.76%**	**16390**	**41.62%**	**15826**	**40.19%**	**16039**	**40.73%**	**15759**	**40.02%**	**15870**	**40.30%**
LCL	**14421**	**36.62%**	**15658**	**39.76%**	**15725**	**39.93%**	**15293**	**38.83%**	**15357**	**39.00%**	**15140**	**38.45%**	**14894**	**37.82%**	**15468**	**39.28%**	**14766**	**37.50%**	**14199**	**36.06%**	**14473**	**36.75%**	**15723**	**39.93%**	**15155**	**38.49%**	**15346**	**38.97%**	**14971**	**38.02%**	**15092**	**38.32%**

G542 Unit 3
Calibration 02/03/25

	High Voltage	Changed?	Chi Sq Passed?	Notes
A Drawer	1780	Y	Y	
B Drawer	1780	Y	Y	
C Drawer	1760	Y	Y	
D Drawer	1780	Y	Y	

Comments:

After initial High Voltage(HV) run, windows changed and HV rerun. HV and Chi Squared data shown is from after window change.

Collected by: _____ Date: 2/10/25

Approved by: _____ Date: 2/10/25

OOS= Detector taken Out of Service

Detector Names Unit 3:

Numerical:	Instrument:	PACE:
1	1A	3A-1
2	1B	3A-2
3	1C	3A-3
4	1D	3A-4
5	2A	3B-1
6	2B	3B-2
7	2C	3B-3
8	2D	3B-4
9	3A	3C-1
10	3B	3C-2
11	3C	3C-3
12	3D	3C-4
13	4A	3D-1
14	4B	3D-2
15	4C	3D-3
16	4D	3D-4

Standards Used: 23F04831 23F04839
23F04841 23F04832
24B19729 24B19731
24B19730 24B19732

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Sr-90
124007
ESC51613
22J11029

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	01-Jul-24
PREP:	13-Sep-22

Ao =	940.91	nCi				
N =	0.02					
T(1/2) =	28.60	years				
T =	1.85	years				
dilution =	1000.00					
A =	899.65	nCi	SR90/Y90			
A =	1997.22	dpm/ml	3994.4459	399.4446		
A =	899.65	pCi/ml	1799.3			
A =	899.65	+/-	16.207189	pCi/ml	3994.445911	
						11983.33773

Uncertainty	0.0173
Weight	0.05%
Volume (1000 ml)	0.50%

CSU 1.80%

DECAY CALCUALTION

Th230 Source
124007
ESC51614
22I13361

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 25-Aug-22
DATE OF CALIBRATION 01-Feb-25

Ao	=	1011.73	nCi	
N	=	0.00		
T(1/2)	=	77000.00	years	28105000
T	=	2.44	years	
dilution	=	1000.00		
A	=	1011.71	nCi	
A	=	2246.00	dpm/ml	22459.977
A	**=**	1011.71	pCi/ml	

Uncertainty	3.16%
Weight	0.05%
Volume	0.03%
CSU	3.16%

					pCi/l
Activity	**1011.7**	**+/-**	**32.0**	**pCi/ml**	1011711

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Sr-90
124007
ESC51613
22J11029

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	01-Jul-24
PREP:	13-Sep-22

Ao =	940.91	nCi				
N =	0.02					
T(1/2) =	28.60	years				
T =	1.85	years				
dilution =	1000.00					
A =	899.65	nCi	SR90/Y90			
A =	1997.22	dpm/ml	3994.4459	399.4446		
A =	899.65	pCi/ml	1799.3			
A =	899.65	+/-	16.207189	pCi/ml	3994.445911	
						11983.33773

Uncertainty	0.0173
Weight	0.05%
Volume (1000 ml)	0.50%

CSU 1.80%

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer A

2/3/2025

3A-1=	Det1=	1A				3A-2=	Det2=	1B				3A-3=	Det3=	1C				3A-4=	Det4=	1D			
	Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
	1500	873	872	1			1500	2043	2043	0			1500	1037	1037	0			1500	1115	1115	0	
	1520	1038	1038	0			1520	2258	2257	1			1520	1293	1293	0			1520	1318	1318	0	
	1540	1340	1340	0			1540	2588	2587	1			1540	1548	1548	0			1540	1501	1501	0	
	1560	1559	1558	1			1560	2798	2797	1			1560	1776	1775	1			1560	1818	1816	2	
	1580	1788	1788	0			1580	2992	2992	0			1580	2099	2098	1			1580	2047	2047	0	
	1600	2067	2066	1			1600	3165	3165	0			1600	2261	2261	0			1600	2160	2160	0	
	1620	2282	2281	1			1620	3233	3231	2			1620	2610	2608	2			1620	2418	2418	0	
	1640	2610	2608	2			1640	3232	3231	1			1640	2768	2767	1			1640	2656	2655	1	
	1660	2812	2811	1			1660	3342	3341	1			1660	2953	2953	0			1660	2794	2794	0	
	1680	3010	3009	1			1680	3564	3563	1			1680	3112	3112	0			1680	2989	2988	1	
	1700	3244	3244	0			1700	3312	3312	0			1700	3235	3234	1			1700	3037	3036	1	
	1720	3265	3264	1			1720	3451	3448	3			1720	3367	3367	0			1720	3135	3133	2	
	1740	3348	3346	2			1740	3533	3531	2			1740	3502	3498	4			1740	3215	3211	4	
	1760	3369	3369	0	0.00%		1760	3514	3501	13	0.37%		1760	3581	3579	2	0.06%		1760	3102	3100	2	0.06%
	1780	3492	3491	1	0.03%		1780	3500	3482	18	0.52%		1780	3447	3445	2	0.06%		1780	3294	3293	1	0.03%
	1800	3513	3507	6	0.17%		1800	3547	3488	59	1.69%		1800	3579	3560	19	0.53%		1800	3314	3313	1	0.03%
	1820	3427	3417	10			1820	3528	3439	89			1820	3601	3570	31			1820	3340	3339	1	
	1840	3469	3459	10			1840	3564	3479	85			1840	3505	3480	25			1840	3268	3268	0	
	1860	3553	3546	7			1860	3561	3487	74			1860	3498	3478	20			1860	3295	3291	4	
	1880	3583	3576	7			1880	3627	3533	94			1880	3614	3595	19			1880	3368	3368	0	
	1900	3452	3442	10			1900	3590	3499	91			1900	3566	3544	22			1900	3260	3254	6	
	1920	3479	3469	10			1920	3558	3476	82			1920	3483	3462	21			1920	3169	3167	2	
	1940	3493	3487	6			1940	3509	3435	74			1940	3694	3671	23			1940	3368	3366	2	
	1960	3584	3576	8			1960	3465	3394	71			1960	3583	3563	20			1960	3341	3338	3	
	1980	3471	3458	13			1980	3477	3394	83			1980	3561	3543	18			1980	3277	3274	3	
	2000	3584	3575	9			2000	3497	3425	72			2000	3604	3575	29			2000	3307	3304	3	
	1740	7.80%	263				1740	5.09%	176				1740	9.46%	326				1740	8.71%	277		
Slope Calc:	1760	4.50%	153				1760	0.26%	9				1760	5.79%	203				1760	6.37%	206		
	1780	3.29%	113				1780	1.49%	52				1780	0.51%	18				1780	1.75%	57		
	1800	5.11%	177				1800	0.40%	14				1800	2.87%	101				1800	5.85%	191		

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer B

2/3/2025

3B-1=	Det5=	2A				3B-2=	Det6=	2B				3B-3=	Det7=	2C				3B-4=	Det8=	2D			
	Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
	1500	1694	1693	1			1500	1556	1556	0			1500	1880	1880	0			1500	1353	1353	0	
	1520	1907	1907	0			1520	1748	1748	0			1520	2172	2172	0			1520	1608	1608	0	
	1540	2148	2147	1			1540	2121	2121	0			1540	2501	2501	0			1540	1823	1821	2	
	1560	2514	2513	1			1560	2269	2269	0			1560	2740	2739	1			1560	2099	2098	1	
	1580	2720	2720	0			1580	2616	2615	1			1580	2867	2867	0			1580	2441	2441	0	
	1600	2985	2984	1			1600	2751	2751	0			1600	3012	3012	0			1600	2473	2472	1	
	1620	3162	3161	1			1620	3019	3019	0			1620	3238	3236	2			1620	2689	2688	1	
	1640	3251	3249	2			1640	2966	2965	1			1640	3322	3321	1			1640	2933	2932	1	
	1660	3399	3398	1			1660	3061	3061	0			1660	3405	3404	1			1660	2993	2992	1	
	1680	3480	3480	0			1680	3257	3255	2			1680	3424	3422	2			1680	3141	3141	0	
	1700	3507	3505	2			1700	3299	3298	1			1700	3526	3526	0			1700	3103	3103	0	
	1720	3721	3719	2			1720	3285	3284	1			1720	3508	3507	1			1720	3142	3141	1	
	1740	3637	3636	1			1740	3386	3385	1			1740	3557	3552	5			1740	3174	3172	2	
	1760	3719	3704	15	0.42%		1760	3425	3424	1	0.03%		1760	3530	3525	5	0.14%		1760	3243	3241	2	0.06%
	1780	3643	3613	30	0.83%		1780	3475	3472	3	0.09%		1780	3598	3583	15	0.42%		1780	3348	3339	9	0.27%
	1800	3672	3613	59			1800	3416	3397	19			1800	3685	3635	50			1800	3206	3187	19	
	1820	3697	3619	78			1820	3460	3439	21			1820	3753	3697	56			1820	3385	3365	20	
	1840	3801	3719	82			1840	3367	3357	10			1840	3606	3552	54			1840	3282	3253	29	
	1860	3752	3686	66			1860	3472	3454	18			1860	3744	3697	47			1860	3288	3255	33	
	1880	3804	3701	103			1880	3548	3532	16			1880	3722	3669	52			1880	3238	3222	16	
	1900	3737	3666	71			1900	3488	3466	22			1900	3705	3651	54			1900	3263	3239	24	
	1920	3849	3766	83			1920	3436	3420	16			1920	3691	3646	45			1920	3252	3228	24	
	1940	3700	3622	78			1940	3553	3540	13			1940	3710	3655	55			1940	3277	3248	29	
	1960	3805	3731	74			1960	3368	3353	15			1960	3708	3656	52			1960	3406	3386	20	
	1980	3821	3740	81			1980	3495	3471	24			1980	3724	3675	49			1980	3287	3260	27	
	2000	3798	3716	82			2000	3415	3397	18			2000	3757	3696	61			2000	3213	3193	20	
Slope Calc:	1760	2.27%	83				1760	4.56%	155				1760	5.30%	190				1760	6.91%	224		
	1780	0.49%	18				1780	0.82%	28				1780	0.00%	0				1780	2.49%	81		
	1800	2.41%	88				1800	0.88%	30				1800	4.76%	172				1800	0.43%	14		
	1820	1.45%	53				1820	1.74%	60				1820	2.36%	86				1820	3.58%	117		

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer C

2/3/2025

3C-1= Det9= 3A

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1721	1720	1	
1520	2063	2063	0	
1540	2349	2349	0	
1560	2662	2661	1	
1580	2835	2835	0	
1600	3055	3054	1	
1620	3243	3243	0	
1640	3320	3319	1	
1660	3529	3529	0	
1680	3460	3459	1	
1700	3586	3584	2	
1720	3712	3708	4	
1740	3677	3677	0	
1760	3616	3609	7	0.19%
1780	3809	3788	21	0.55%
1800	3798	3758	40	1.06%
1820	3814	3750	64	
1840	3632	3571	61	
1860	3859	3796	63	
1880	3712	3669	43	
1900	3596	3552	44	
1920	3707	3663	44	
1940	3688	3638	50	
1960	3771	3718	53	
1980	3766	3721	45	
2000	3670	3633	37	1.02%

Slope Calc:

1740	4.49%	166	
1760	3.71%	137	
1780	3.21%	119	
1800	1.62%	60	
1820	6.38%	236	
1840	2.58%	95	

3C-2= Det10= 3B

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1566	1565	1	
1520	1866	1865	1	
1540	2101	2101	0	
1560	2425	2425	0	
1580	2651	2649	2	
1600	2709	2707	2	
1620	2958	2958	0	
1640	3114	3112	2	
1660	3216	3216	0	
1680	3251	3251	0	
1700	3243	3242	1	
1720	3433	3432	1	
1740	3481	3480	1	
1760	3317	3310	7	0.21%
1780	3339	3318	21	0.63%
1800	3498	3448	50	1.45%
1820	3490	3431	59	1.72%
1840	3488	3435	53	
1860	3572	3503	69	
1880	3485	3412	73	
1900	3488	3444	44	
1920	3413	3352	61	
1940	3393	3339	54	
1960	3501	3443	58	
1980	3392	3336	56	
2000	3471	3418	53	

1740	5.59%	189	
1760	0.09%	3	
1780	0.67%	23	
1800	2.99%	102	
1820	3.68%	126	
1840	2.80%	96	

3C-3= Det11= 3C

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1943	1942	1	
1520	2322	2322	0	
1540	2596	2596	0	
1560	2881	2879	2	
1580	3123	3121	2	
1600	3154	3153	1	
1620	3375	3375	0	
1640	3337	3334	3	
1660	3515	3514	1	
1680	3571	3570	1	
1700	3559	3558	1	
1720	3495	3493	2	
1740	3624	3621	3	
1760	3664	3649	15	0.41%
1780	3633	3606	27	0.75%
1800	3769	3706	63	1.70%
1820	3773	3701	72	1.95%
1840	3633	3551	82	
1860	3673	3599	74	
1880	3615	3534	81	
1900	3596	3527	69	
1920	3633	3567	66	
1940	3665	3582	83	
1960	3748	3678	70	
1980	3680	3597	83	
2000	3753	3665	88	

1740	3.95%	143	
1760	1.60%	58	
1780	0.61%	22	
1800	3.18%	115	
1820	2.19%	79	
1840	3.86%	139	

3C-4= Det12= 3D

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1405	1405	0	
1520	1737	1737	0	
1540	2027	2027	0	
1560	2352	2350	2	
1580	2489	2485	4	
1600	2667	2667	0	
1620	2896	2894	2	
1640	3066	3064	2	
1660	3148	3146	2	
1680	3135	3134	1	
1700	3289	3288	1	
1720	3226	3224	2	
1740	3228	3224	4	
1760	3281	3273	8	0.24%
1780	3292	3274	18	0.55%
1800	3351	3303	48	1.45%
1820	3246	3176	70	2.20%
1840	3420	3340	80	
1860	3445	3362	83	
1880	3342	3268	74	
1900	3337	3256	81	
1920	3366	3302	64	
1940	3282	3205	77	
1960	3308	3249	59	
1980	3376	3288	88	
2000	3446	3376	70	

1740	3.44%	112	
1760	3.56%	116	
1780	4.21%	138	
1800	0.15%	5	
1820	0.55%	18	
1840	0.03%	1	

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer D

2/3/2025

3D-1= Det13= 4A

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1473	1473	0	
1520	1740	1740	0	
1540	2173	2172	1	
1560	2323	2323	0	
1580	2748	2747	1	
1600	2856	2855	1	
1620	2997	2997	0	
1640	3197	3197	0	
1660	3447	3446	1	
1680	3605	3605	0	
1700	3502	3502	0	
1720	3604	3601	3	
1740	3608	3607	1	
1760	3727	3725	2	0.05%
1780	3697	3690	7	0.19%
1800	3759	3737	22	0.59%
1820	3677	3657	20	
1840	3605	3580	25	
1860	3765	3741	24	
1880	3790	3765	25	
1900	3760	3740	20	
1920	3750	3721	29	
1940	3756	3727	29	
1960	3772	3755	17	
1980	3845	3832	13	
2000	3782	3752	30	

1740	6.4%	235
1760	1.5%	56
1780	0.7%	27
1800	0.4%	16
1820	2.0%	75

3D-2= Det14= 4B

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1503	1503	0	
1520	1876	1876	0	
1540	2016	2015	1	
1560	2215	2215	0	
1580	2559	2559	0	
1600	2711	2709	2	
1620	2877	2875	2	
1640	3042	3042	0	
1660	3188	3188	0	
1680	3233	3232	1	
1700	3344	3344	0	
1720	3269	3268	1	
1740	3427	3425	2	
1760	3350	3344	6	0.18%
1780	3469	3456	13	0.38%
1800	3461	3421	40	1.17%
1820	3502	3456	46	
1840	3440	3395	45	
1860	3436	3378	58	
1880	3448	3396	52	
1900	3538	3490	48	
1920	3422	3384	38	
1940	3530	3479	51	
1960	3445	3389	56	
1980	3432	3375	57	
2000	3502	3452	50	

1740	2.3%	77
1760	5.5%	188
1780	0.9%	30
1800	1.0%	34
1820	1.8%	60

3D-3= Det15= 4C

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1452	1452	0	
1520	1673	1672	1	
1540	1902	1902	0	
1560	2293	2292	1	
1580	2446	2445	1	
1600	2606	2606	0	
1620	2848	2848	0	
1640	3084	3083	1	
1660	3206	3204	2	
1680	3387	3387	0	
1700	3325	3324	1	
1720	3304	3303	1	
1740	3509	3509	0	
1760	3536	3534	2	0.06%
1780	3518	3510	8	0.23%
1800	3509	3483	26	0.75%
1820	3507	3481	26	
1840	3552	3528	24	
1860	3718	3692	26	
1880	3681	3650	31	
1900	3554	3525	29	
1920	3527	3497	30	
1940	3512	3488	24	
1960	3591	3568	23	
1980	3581	3554	27	
2000	3614	3586	28	

1740	4.6%	159
1760	5.1%	178
1780	0.5%	19
1800	4.4%	158
1820	3.9%	140

3D-4= Det16= 4D

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1309	1309	0	
1520	1630	1629	1	
1540	1832	1829	3	
1560	2042	2042	0	
1580	2471	2469	2	
1600	2558	2558	0	
1620	2679	2677	2	
1640	2907	2906	1	
1660	2965	2964	1	
1680	3149	3146	3	
1700	3070	3069	1	
1720	3199	3198	1	
1740	3258	3256	2	
1760	3284	3281	3	0.09%
1780	3266	3256	10	0.31%
1800	3256	3222	34	1.06%
1820	3320	3273	47	
1840	3365	3320	45	
1860	3443	3381	62	
1880	3350	3299	51	
1900	3318	3269	49	
1920	3305	3257	48	
1940	3379	3330	49	
1960	3316	3266	50	
1980	3366	3318	48	
2000	3348	3305	43	

1740	4.7%	153
1760	2.3%	75
1780	1.9%	64
1800	3.0%	100
1820	1.3%	43

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 22:31
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	873	872	1
1520	1038	1038	0
1540	1340	1340	0
1560	1559	1558	1
1580	1788	1788	0
1600	2067	2066	1
1620	2282	2281	1
1640	2610	2608	2
1660	2812	2811	1
1680	3010	3009	1
1700	3244	3244	0
1720	3265	3264	1
1740	3348	3346	2
1760	3369	3369	0
1780	3492	3491	1
1800	3513	3507	6
1820	3427	3417	10
1840	3469	3459	10
1860	3553	3546	7
1880	3583	3576	7
1900	3452	3442	10
1920	3479	3469	10
1940	3493	3487	6
1960	3584	3576	8
1980	3471	3458	13
2000	3584	3575	9

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 17:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2043	2043	0
1520	2258	2257	1
1540	2588	2587	1
1560	2798	2797	1
1580	2992	2992	0
1600	3165	3165	0
1620	3233	3231	2
1640	3232	3231	1
1660	3342	3341	1
1680	3564	3563	1
1700	3312	3312	0
1720	3451	3448	3
1740	3533	3531	2
1760	3514	3501	13
1780	3500	3482	18
1800	3547	3488	59
1820	3528	3439	89
1840	3564	3479	85
1860	3561	3487	74
1880	3627	3533	94
1900	3590	3499	91
1920	3558	3476	82
1940	3509	3435	74
1960	3465	3394	71
1980	3477	3394	83
2000	3497	3425	72

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 17:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000

Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1037	1037	0
1520	1293	1293	0
1540	1548	1548	0
1560	1776	1775	1
1580	2099	2098	1
1600	2261	2261	0
1620	2610	2608	2
1640	2768	2767	1
1660	2953	2953	0
1680	3112	3112	0
1700	3235	3234	1
1720	3367	3367	0
1740	3502	3498	4
1760	3581	3579	2
1780	3447	3445	2
1800	3579	3560	19
1820	3601	3570	31
1840	3505	3480	25
1860	3498	3478	20
1880	3614	3595	19
1900	3566	3544	22
1920	3483	3462	21
1940	3694	3671	23
1960	3583	3563	20
1980	3561	3543	18
2000	3604	3575	29

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 17:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1115	1115	0
1520	1318	1318	0
1540	1501	1501	0
1560	1818	1816	2
1580	2047	2047	0
1600	2160	2160	0
1620	2418	2418	0
1640	2656	2655	1
1660	2794	2794	0
1680	2989	2988	1
1700	3037	3036	1
1720	3135	3133	2
1740	3215	3211	4
1760	3102	3100	2
1780	3294	3293	1
1800	3314	3313	1
1820	3340	3339	1
1840	3268	3268	0
1860	3295	3291	4
1880	3368	3368	0
1900	3260	3254	6
1920	3169	3167	2
1940	3368	3366	2
1960	3341	3338	3
1980	3277	3274	3
2000	3307	3304	3

Special Notes:

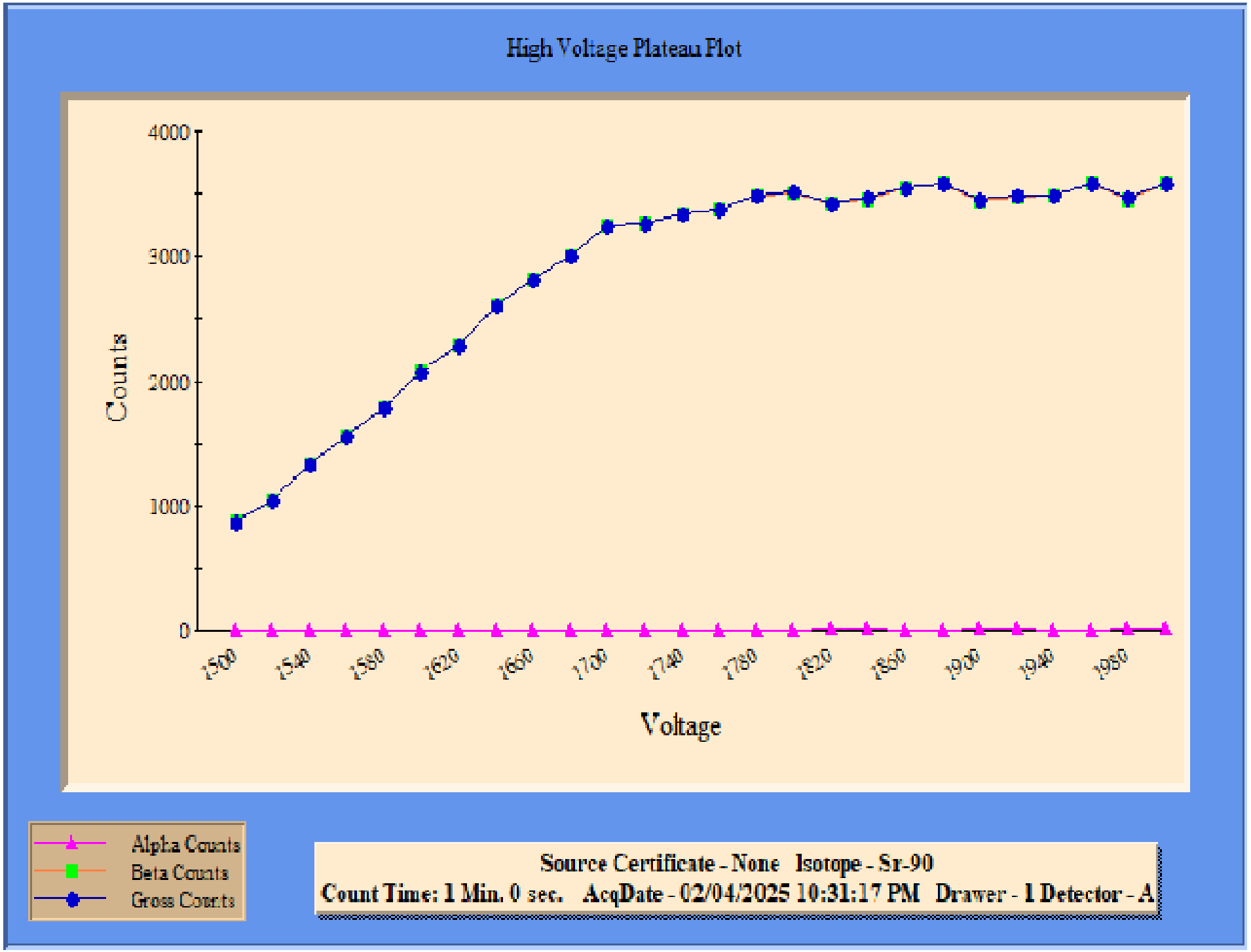
Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

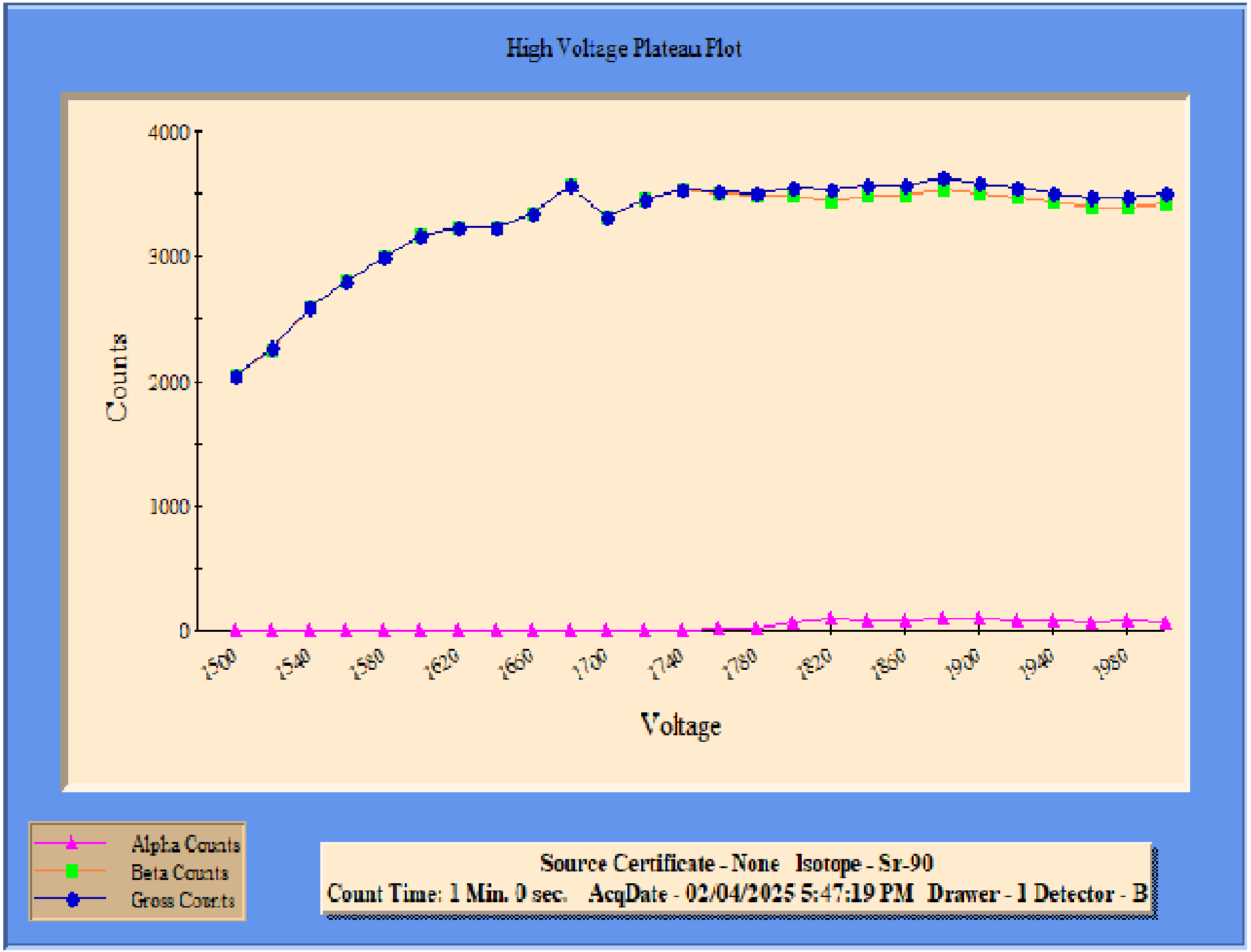
Collected By: _____ **Date:** _____

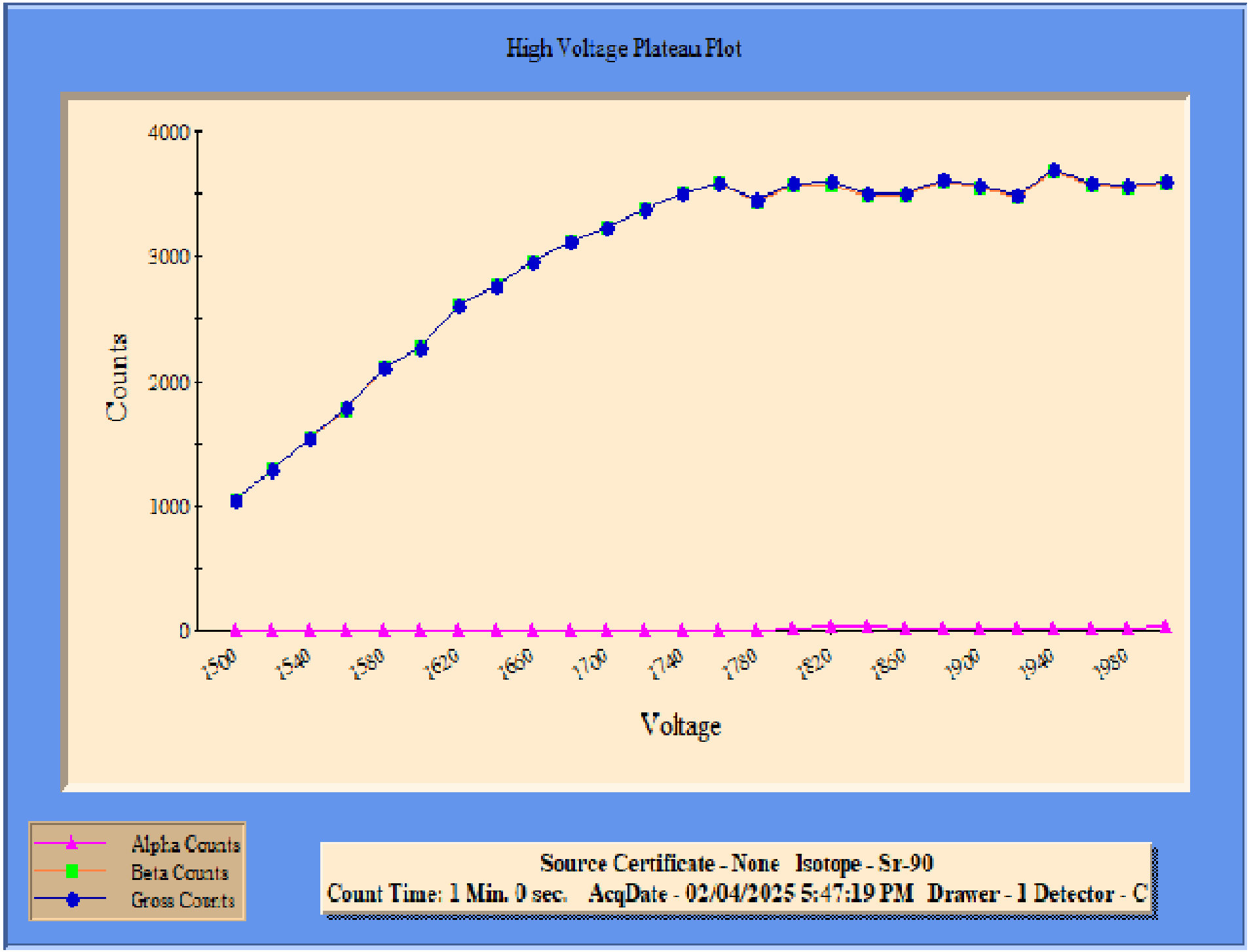
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

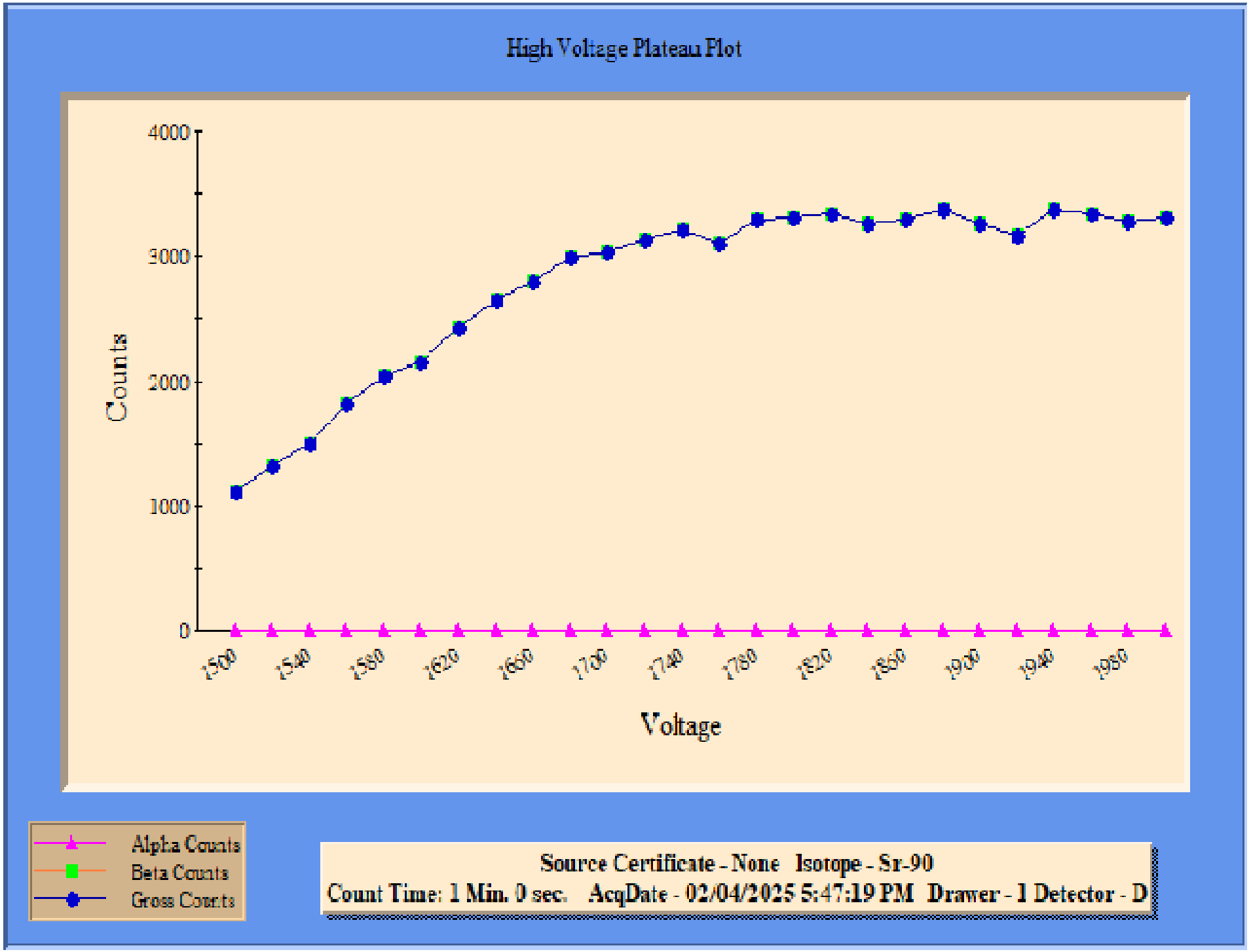
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 10:31:17 PM Drawer - 1 Detector - A


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 5:47:19 PM Drawer - 1 Detector - B


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 5:47:19 PM Drawer - 1 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 5:47:19 PM Drawer - 1 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1694	1693	1
1520	1907	1907	0
1540	2148	2147	1
1560	2514	2513	1
1580	2720	2720	0
1600	2985	2984	1
1620	3162	3161	1
1640	3251	3249	2
1660	3399	3398	1
1680	3480	3480	0
1700	3507	3505	2
1720	3721	3719	2
1740	3637	3636	1
1760	3719	3704	15
1780	3643	3613	30
1800	3672	3613	59
1820	3697	3619	78
1840	3801	3719	82
1860	3752	3686	66
1880	3804	3701	103
1900	3737	3666	71
1920	3849	3766	83
1940	3700	3622	78
1960	3805	3731	74
1980	3821	3740	81
2000	3798	3716	82

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1556	1556	0
1520	1748	1748	0
1540	2121	2121	0
1560	2269	2269	0
1580	2616	2615	1
1600	2751	2751	0
1620	3019	3019	0
1640	2966	2965	1
1660	3061	3061	0
1680	3257	3255	2
1700	3299	3298	1
1720	3285	3284	1
1740	3386	3385	1
1760	3425	3424	1
1780	3475	3472	3
1800	3416	3397	19
1820	3460	3439	21
1840	3367	3357	10
1860	3472	3454	18
1880	3548	3532	16
1900	3488	3466	22
1920	3436	3420	16
1940	3553	3540	13
1960	3368	3353	15
1980	3495	3471	24
2000	3415	3397	18

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1880	1880	0
1520	2172	2172	0
1540	2501	2501	0
1560	2740	2739	1
1580	2867	2867	0
1600	3012	3012	0
1620	3238	3236	2
1640	3322	3321	1
1660	3405	3404	1
1680	3424	3422	2
1700	3526	3526	0
1720	3508	3507	1
1740	3557	3552	5
1760	3530	3525	5
1780	3598	3583	15
1800	3685	3635	50
1820	3753	3697	56
1840	3606	3552	54
1860	3744	3697	47
1880	3722	3669	52
1900	3705	3651	54
1920	3691	3646	45
1940	3710	3655	55
1960	3708	3656	52
1980	3724	3675	49
2000	3757	3696	61

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1353	1353	0
1520	1608	1608	0
1540	1823	1821	2
1560	2099	2098	1
1580	2441	2441	0
1600	2473	2472	1
1620	2689	2688	1
1640	2933	2932	1
1660	2993	2992	1
1680	3141	3141	0
1700	3103	3103	0
1720	3142	3141	1
1740	3174	3172	2
1760	3243	3241	2
1780	3348	3339	9
1800	3206	3187	19
1820	3385	3365	20
1840	3282	3253	29
1860	3288	3255	33
1880	3238	3222	16
1900	3263	3239	24
1920	3252	3228	24
1940	3277	3248	29
1960	3406	3386	20
1980	3287	3260	27
2000	3213	3193	20

Special Notes:

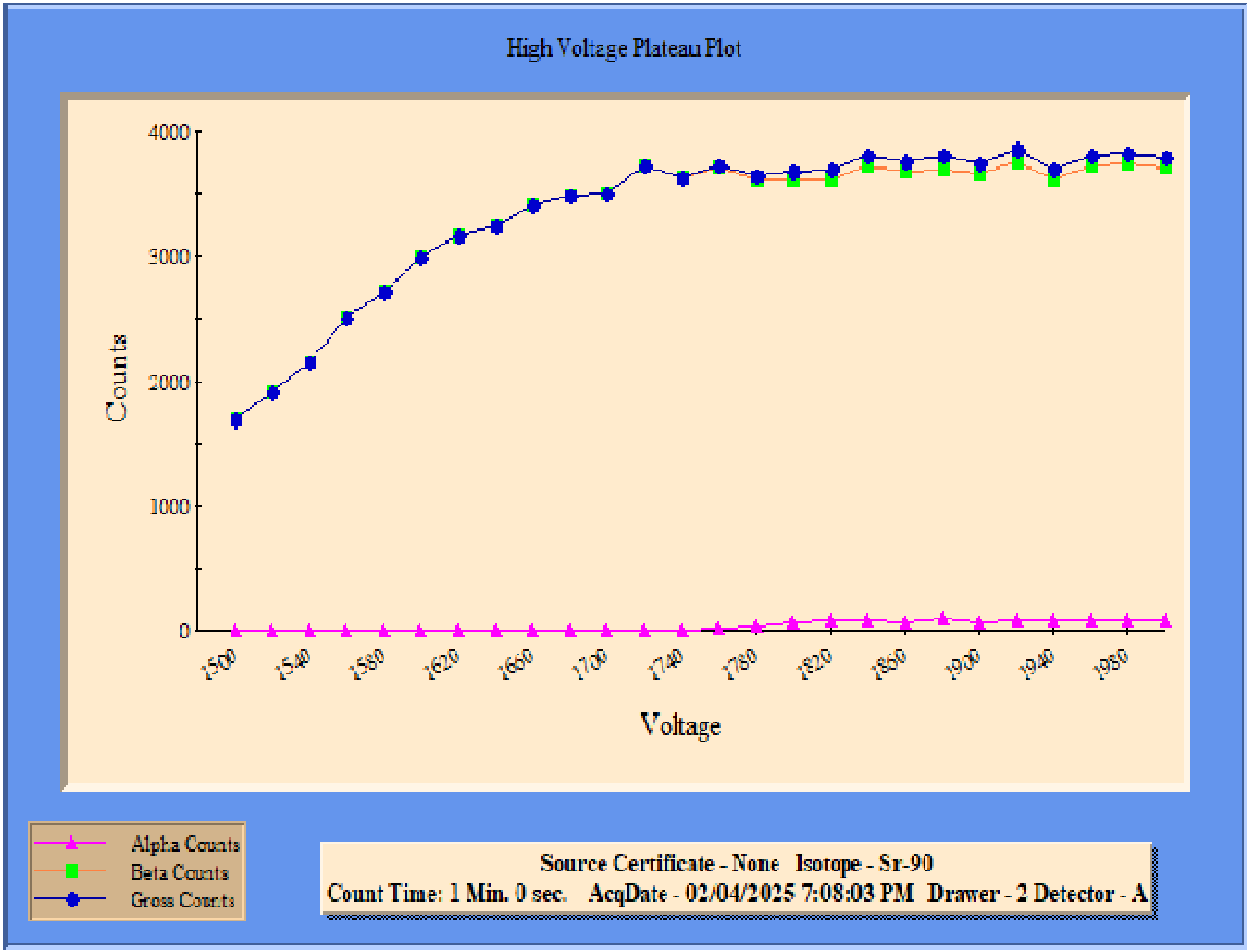
Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

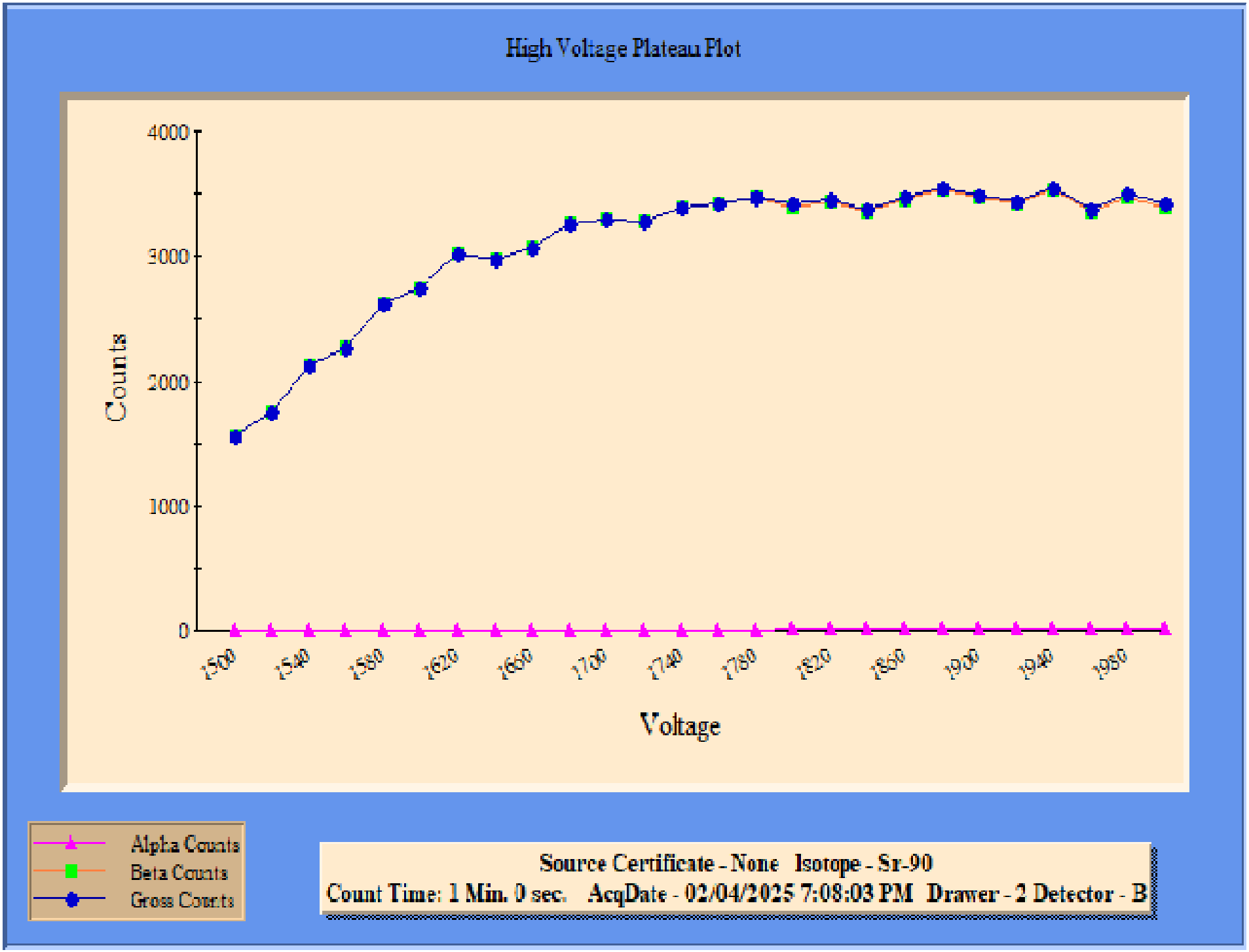
Collected By: _____ **Date:** _____

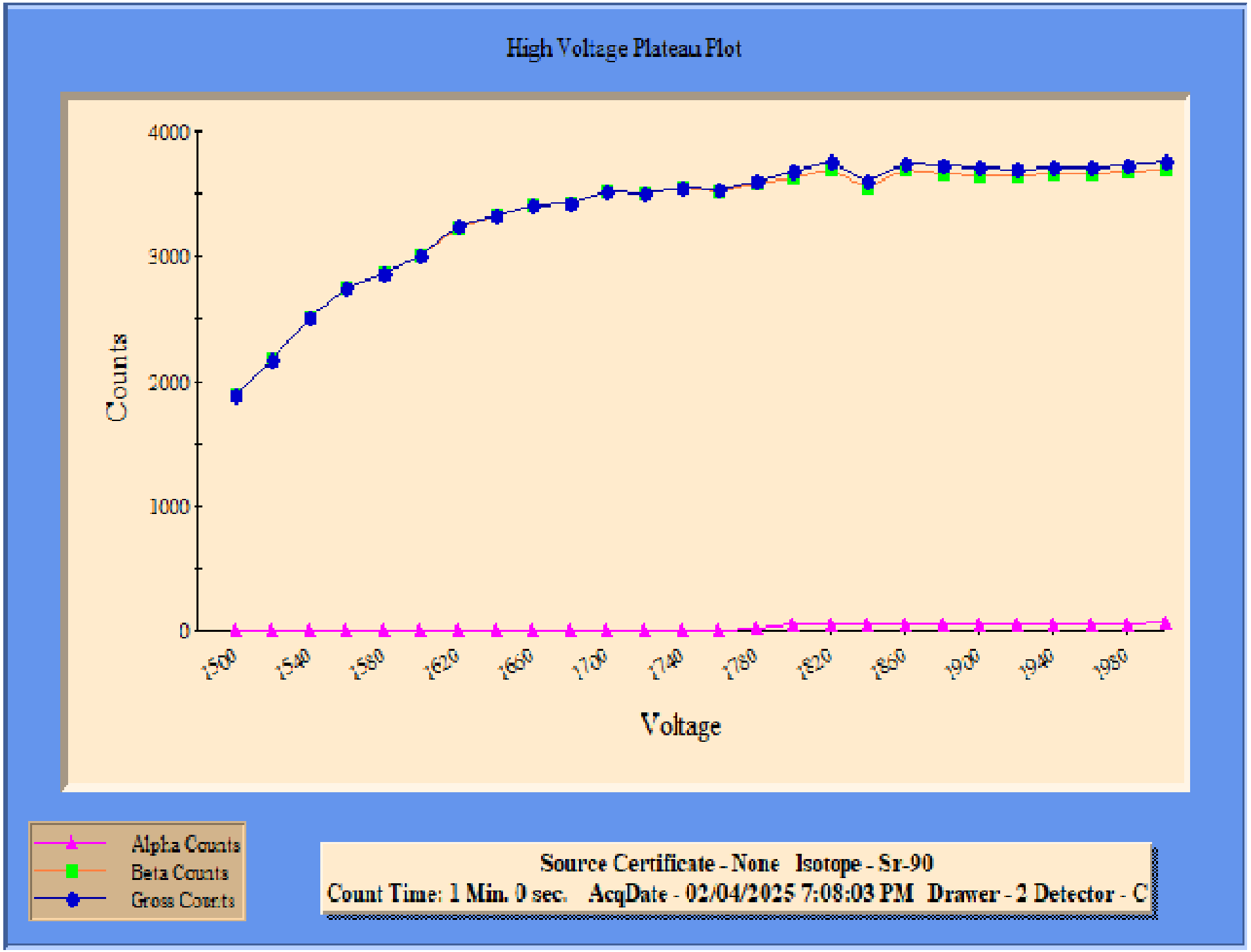
Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

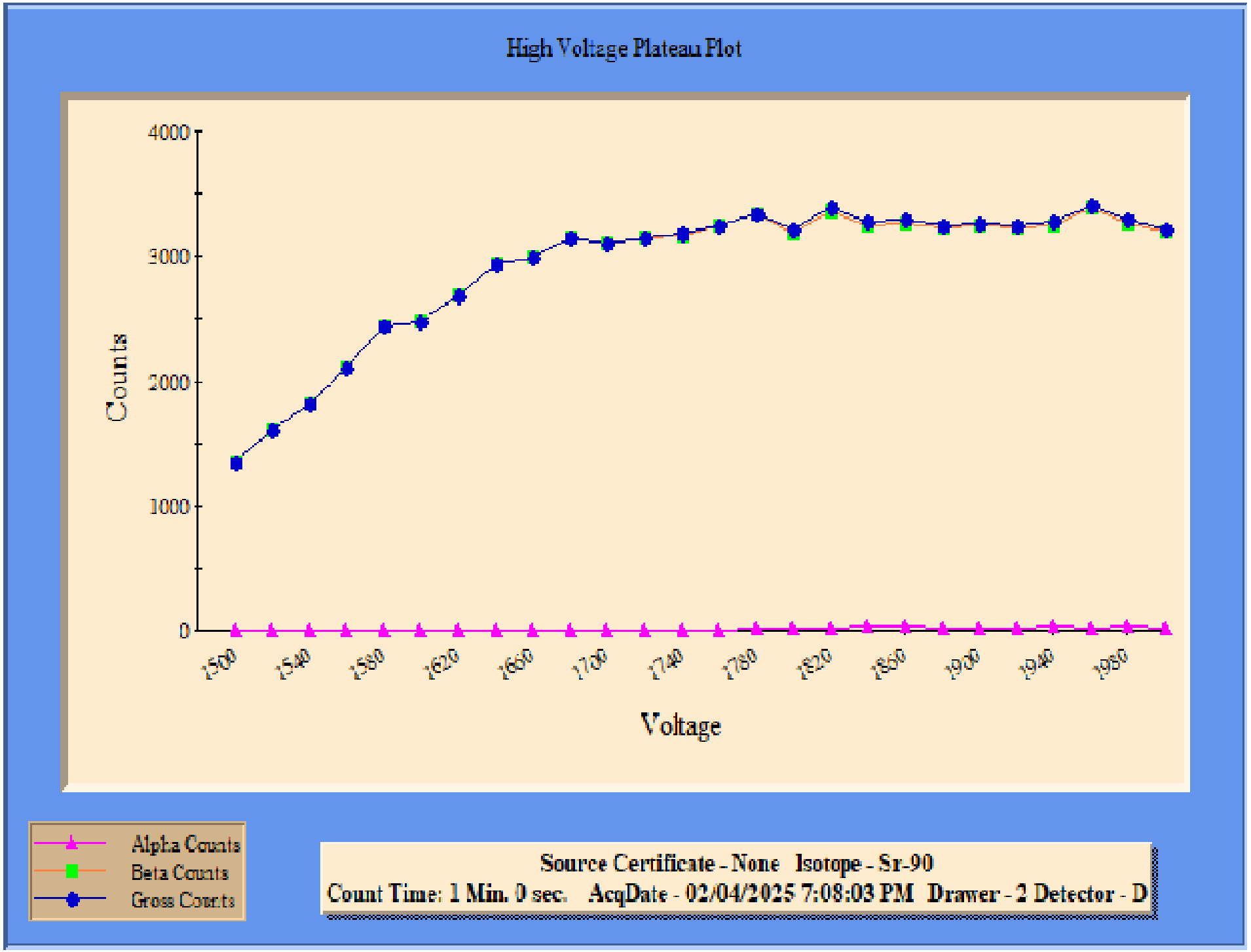
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - A


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - B


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1721	1720	1
1520	2063	2063	0
1540	2349	2349	0
1560	2662	2661	1
1580	2835	2835	0
1600	3055	3054	1
1620	3243	3243	0
1640	3320	3319	1
1660	3529	3529	0
1680	3460	3459	1
1700	3586	3584	2
1720	3712	3708	4
1740	3677	3677	0
1760	3616	3609	7
1780	3809	3788	21
1800	3798	3758	40
1820	3814	3750	64
1840	3632	3571	61
1860	3859	3796	63
1880	3712	3669	43
1900	3596	3552	44
1920	3707	3663	44
1940	3688	3638	50
1960	3771	3718	53
1980	3766	3721	45
2000	3670	3633	37

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1566	1565	1
1520	1866	1865	1
1540	2101	2101	0
1560	2425	2425	0
1580	2651	2649	2
1600	2709	2707	2
1620	2958	2958	0
1640	3114	3112	2
1660	3216	3216	0
1680	3251	3251	0
1700	3243	3242	1
1720	3433	3432	1
1740	3481	3480	1
1760	3317	3310	7
1780	3339	3318	21
1800	3498	3448	50
1820	3490	3431	59
1840	3488	3435	53
1860	3572	3503	69
1880	3485	3412	73
1900	3488	3444	44
1920	3413	3352	61
1940	3393	3339	54
1960	3501	3443	58
1980	3392	3336	56
2000	3471	3418	53

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1943	1942	1
1520	2322	2322	0
1540	2596	2596	0
1560	2881	2879	2
1580	3123	3121	2
1600	3154	3153	1
1620	3375	3375	0
1640	3337	3334	3
1660	3515	3514	1
1680	3571	3570	1
1700	3559	3558	1
1720	3495	3493	2
1740	3624	3621	3
1760	3664	3649	15
1780	3633	3606	27
1800	3769	3706	63
1820	3773	3701	72
1840	3633	3551	82
1860	3673	3599	74
1880	3615	3534	81
1900	3596	3527	69
1920	3633	3567	66
1940	3665	3582	83
1960	3748	3678	70
1980	3680	3597	83
2000	3753	3665	88

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1405	1405	0
1520	1737	1737	0
1540	2027	2027	0
1560	2352	2350	2
1580	2489	2485	4
1600	2667	2667	0
1620	2896	2894	2
1640	3066	3064	2
1660	3148	3146	2
1680	3135	3134	1
1700	3289	3288	1
1720	3226	3224	2
1740	3228	3224	4
1760	3281	3273	8
1780	3292	3274	18
1800	3351	3303	48
1820	3246	3176	70
1840	3420	3340	80
1860	3445	3362	83
1880	3342	3268	74
1900	3337	3256	81
1920	3366	3302	64
1940	3282	3205	77
1960	3308	3249	59
1980	3376	3288	88
2000	3446	3376	70

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1473	1473	0
1520	1740	1740	0
1540	2173	2172	1
1560	2323	2323	0
1580	2748	2747	1
1600	2856	2855	1
1620	2997	2997	0
1640	3197	3197	0
1660	3447	3446	1
1680	3605	3605	0
1700	3502	3502	0
1720	3604	3601	3
1740	3608	3607	1
1760	3727	3725	2
1780	3697	3690	7
1800	3759	3737	22
1820	3677	3657	20
1840	3605	3580	25
1860	3765	3741	24
1880	3790	3765	25
1900	3760	3740	20
1920	3750	3721	29
1940	3756	3727	29
1960	3772	3755	17
1980	3845	3832	13
2000	3782	3752	30

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1503	1503	0
1520	1876	1876	0
1540	2016	2015	1
1560	2215	2215	0
1580	2559	2559	0
1600	2711	2709	2
1620	2877	2875	2
1640	3042	3042	0
1660	3188	3188	0
1680	3233	3232	1
1700	3344	3344	0
1720	3269	3268	1
1740	3427	3425	2
1760	3350	3344	6
1780	3469	3456	13
1800	3461	3421	40
1820	3502	3456	46
1840	3440	3395	45
1860	3436	3378	58
1880	3448	3396	52
1900	3538	3490	48
1920	3422	3384	38
1940	3530	3479	51
1960	3445	3389	56
1980	3432	3375	57
2000	3502	3452	50

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1452	1452	0
1520	1673	1672	1
1540	1902	1902	0
1560	2293	2292	1
1580	2446	2445	1
1600	2606	2606	0
1620	2848	2848	0
1640	3084	3083	1
1660	3206	3204	2
1680	3387	3387	0
1700	3325	3324	1
1720	3304	3303	1
1740	3509	3509	0
1760	3536	3534	2
1780	3518	3510	8
1800	3509	3483	26
1820	3507	3481	26
1840	3552	3528	24
1860	3718	3692	26
1880	3681	3650	31
1900	3554	3525	29
1920	3527	3497	30
1940	3512	3488	24
1960	3591	3568	23
1980	3581	3554	27
2000	3614	3586	28

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1309	1309	0
1520	1630	1629	1
1540	1832	1829	3
1560	2042	2042	0
1580	2471	2469	2
1600	2558	2558	0
1620	2679	2677	2
1640	2907	2906	1
1660	2965	2964	1
1680	3149	3146	3
1700	3070	3069	1
1720	3199	3198	1
1740	3258	3256	2
1760	3284	3281	3
1780	3266	3256	10
1800	3256	3222	34
1820	3320	3273	47
1840	3365	3320	45
1860	3443	3381	62
1880	3350	3299	51
1900	3318	3269	49
1920	3305	3257	48
1940	3379	3330	49
1960	3316	3266	50
1980	3366	3318	48
2000	3348	3305	43

Special Notes:

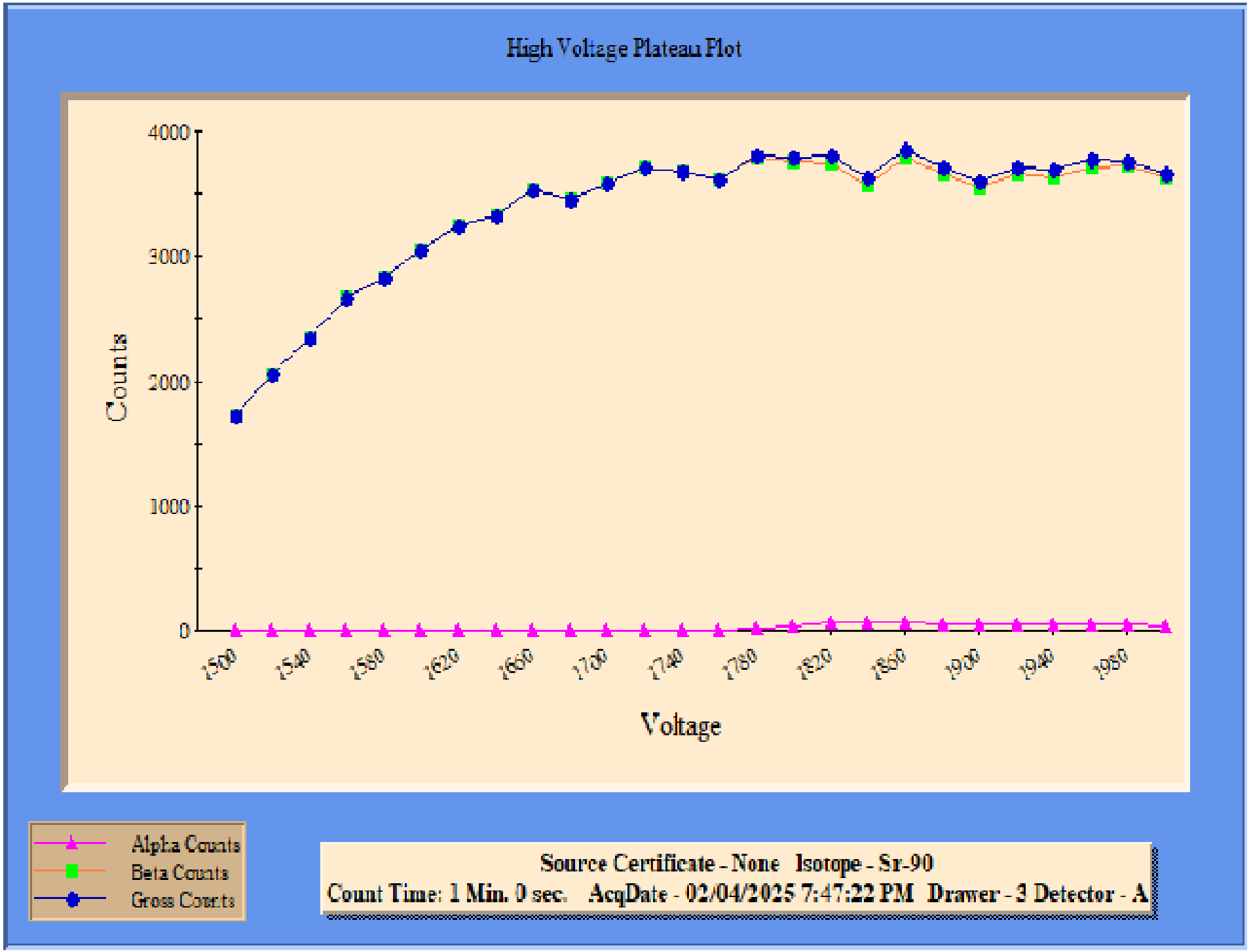
Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

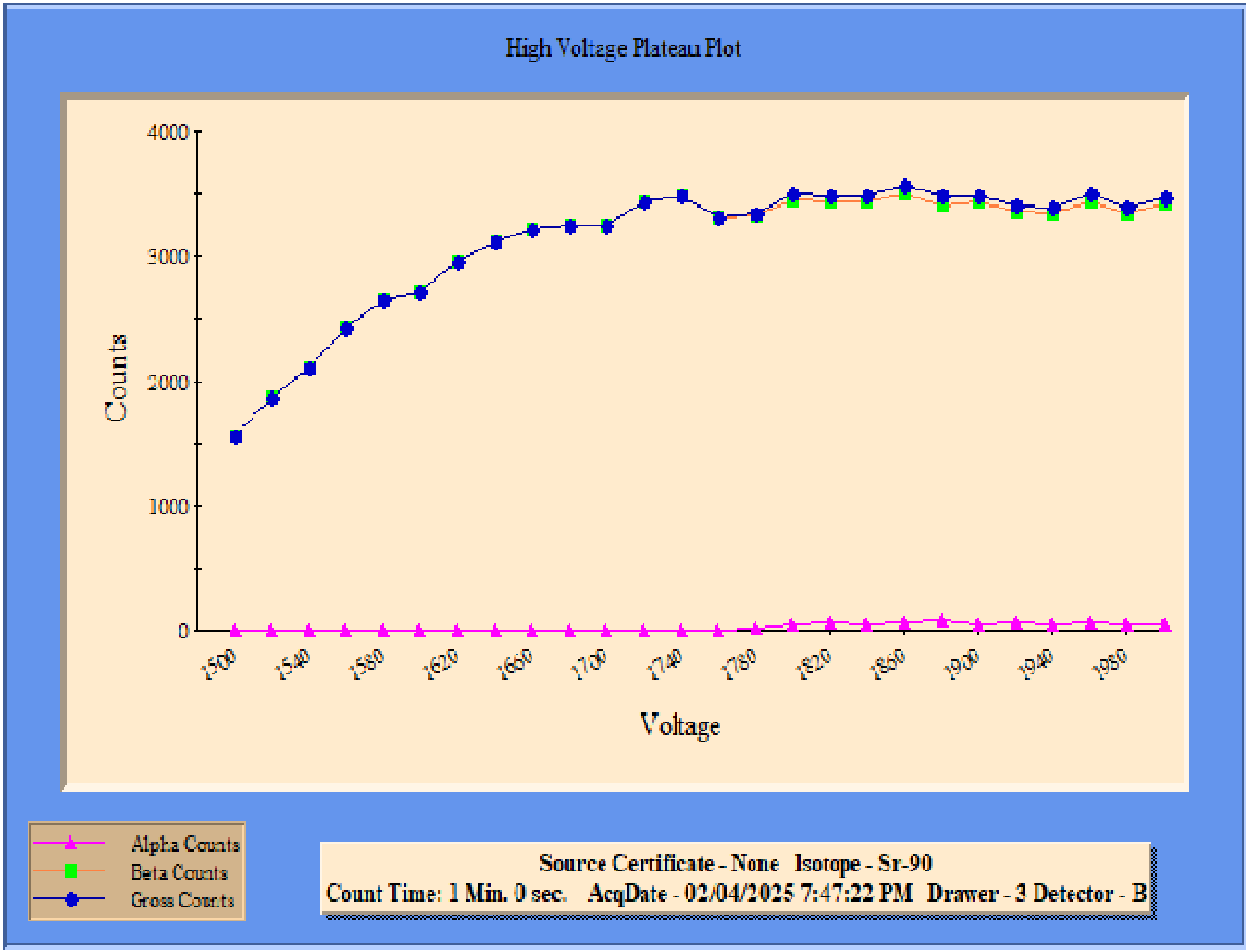
Collected By: _____ **Date:** _____

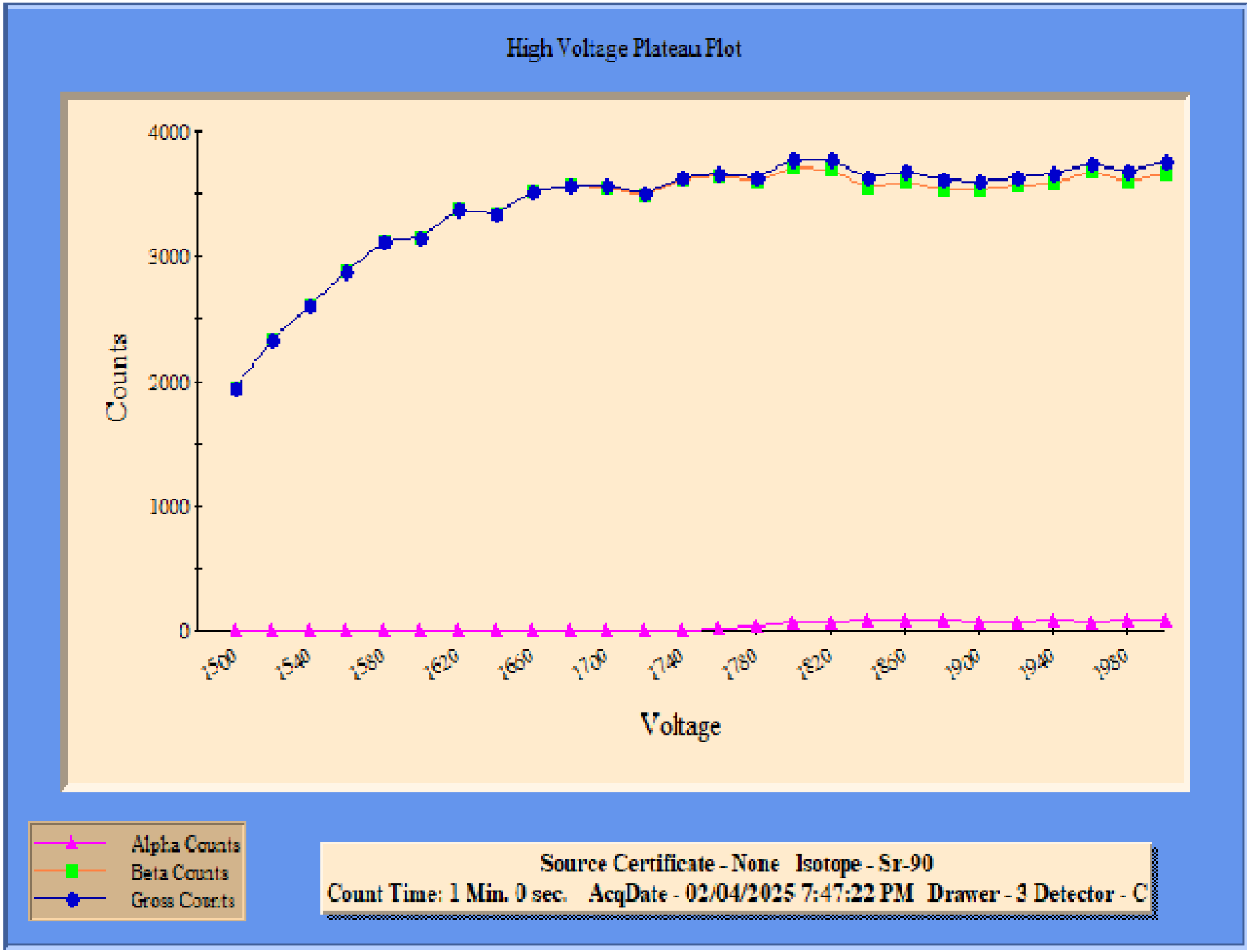
Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

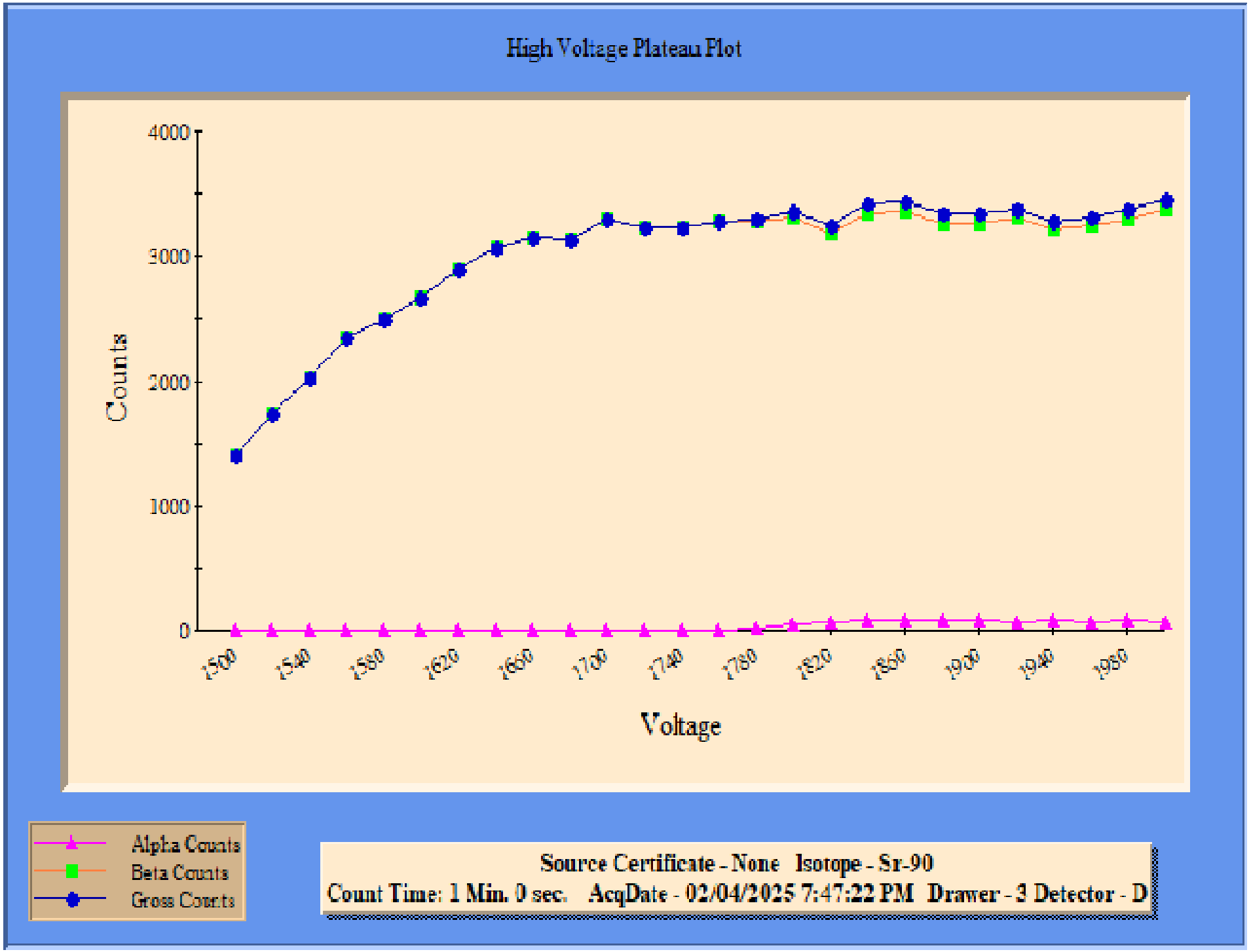
Approved By: _____ **Date:** _____

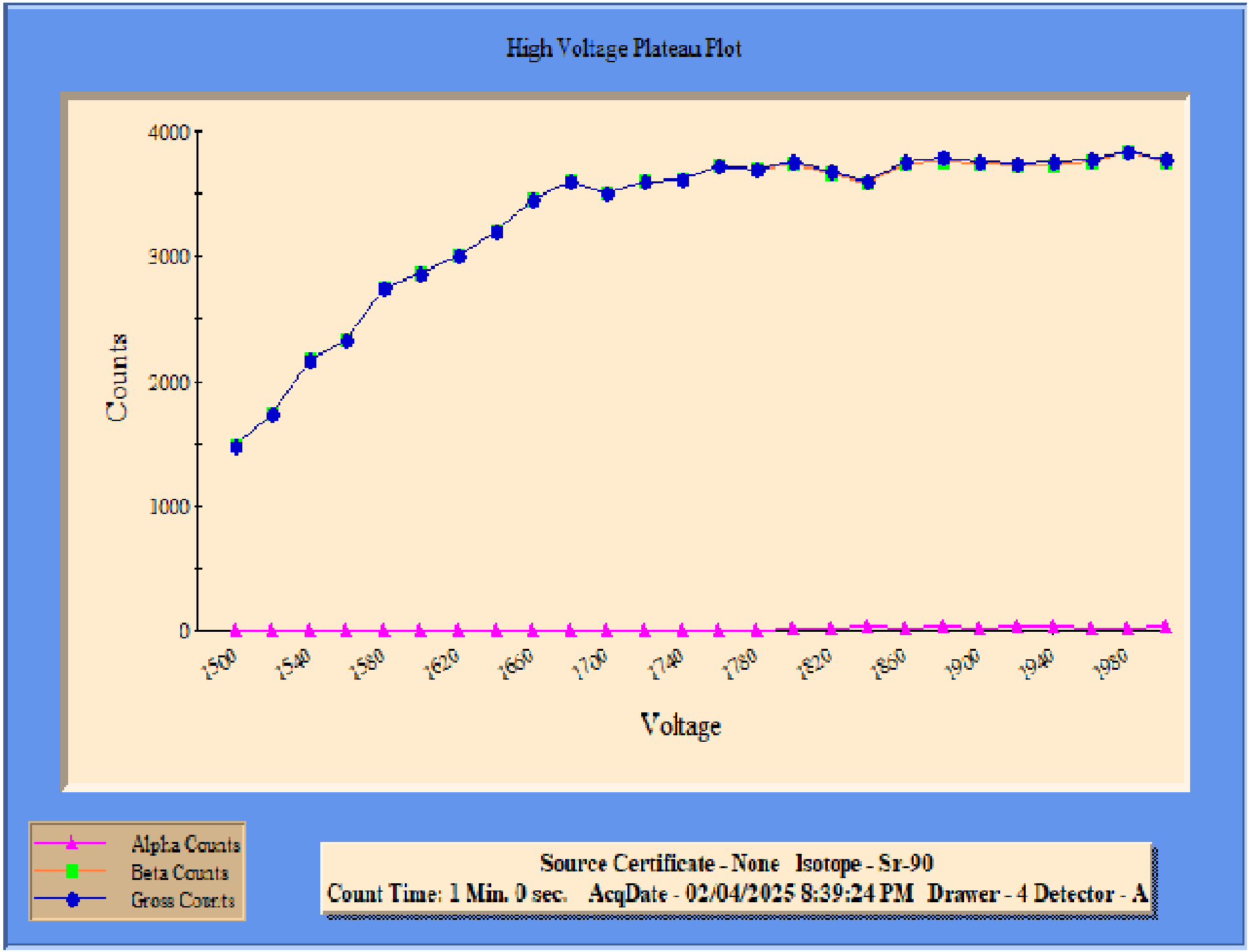
Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

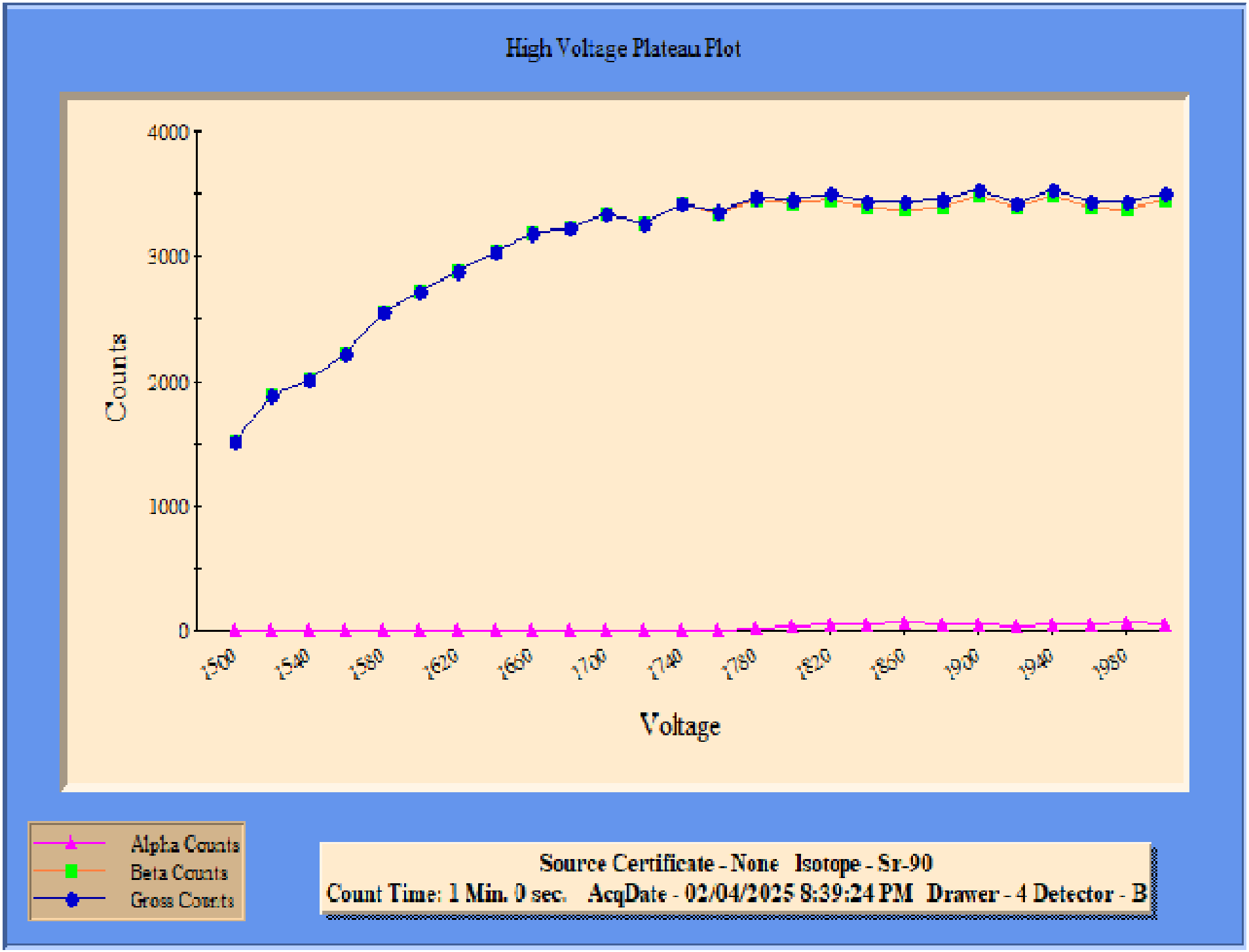

High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - A

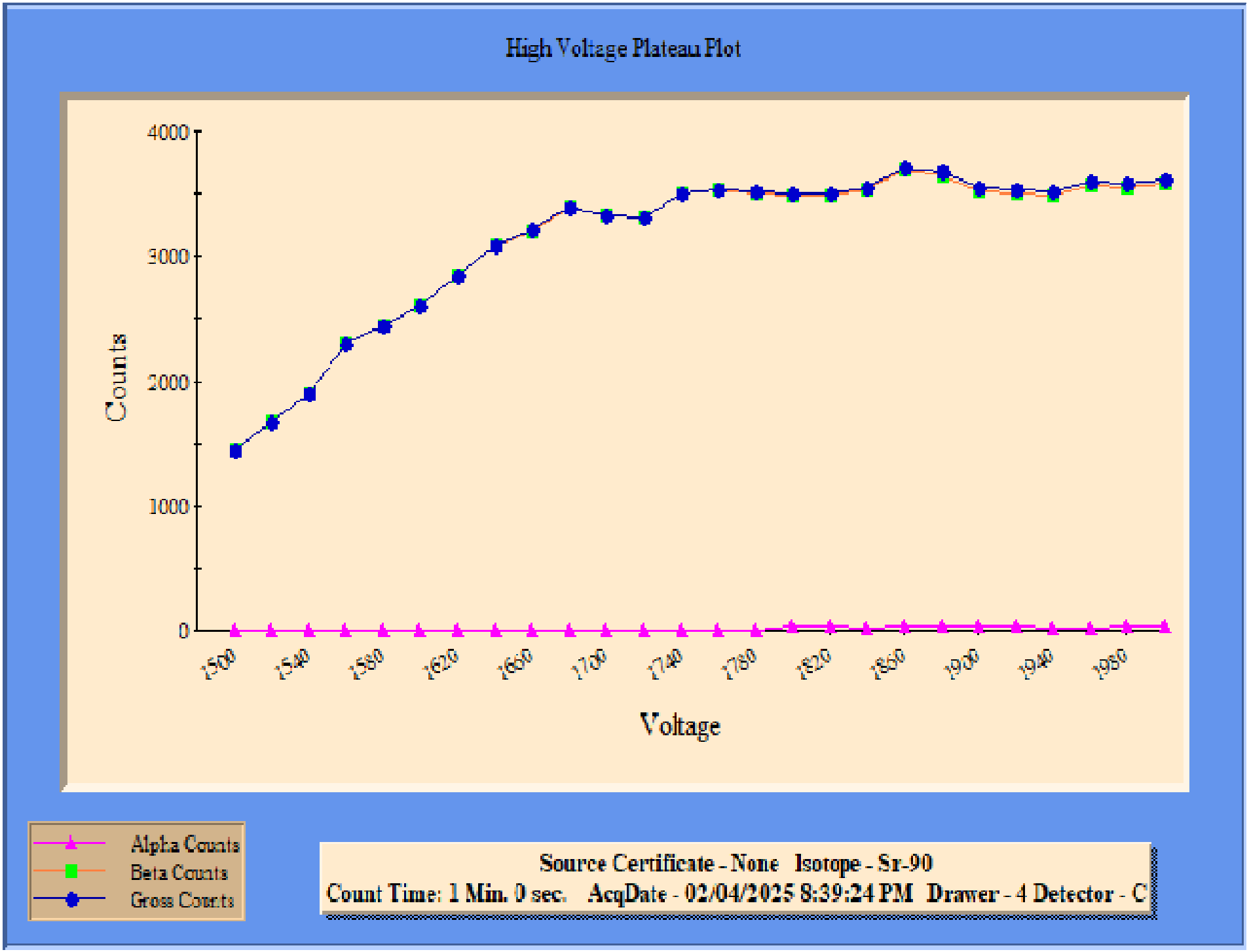

High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - B

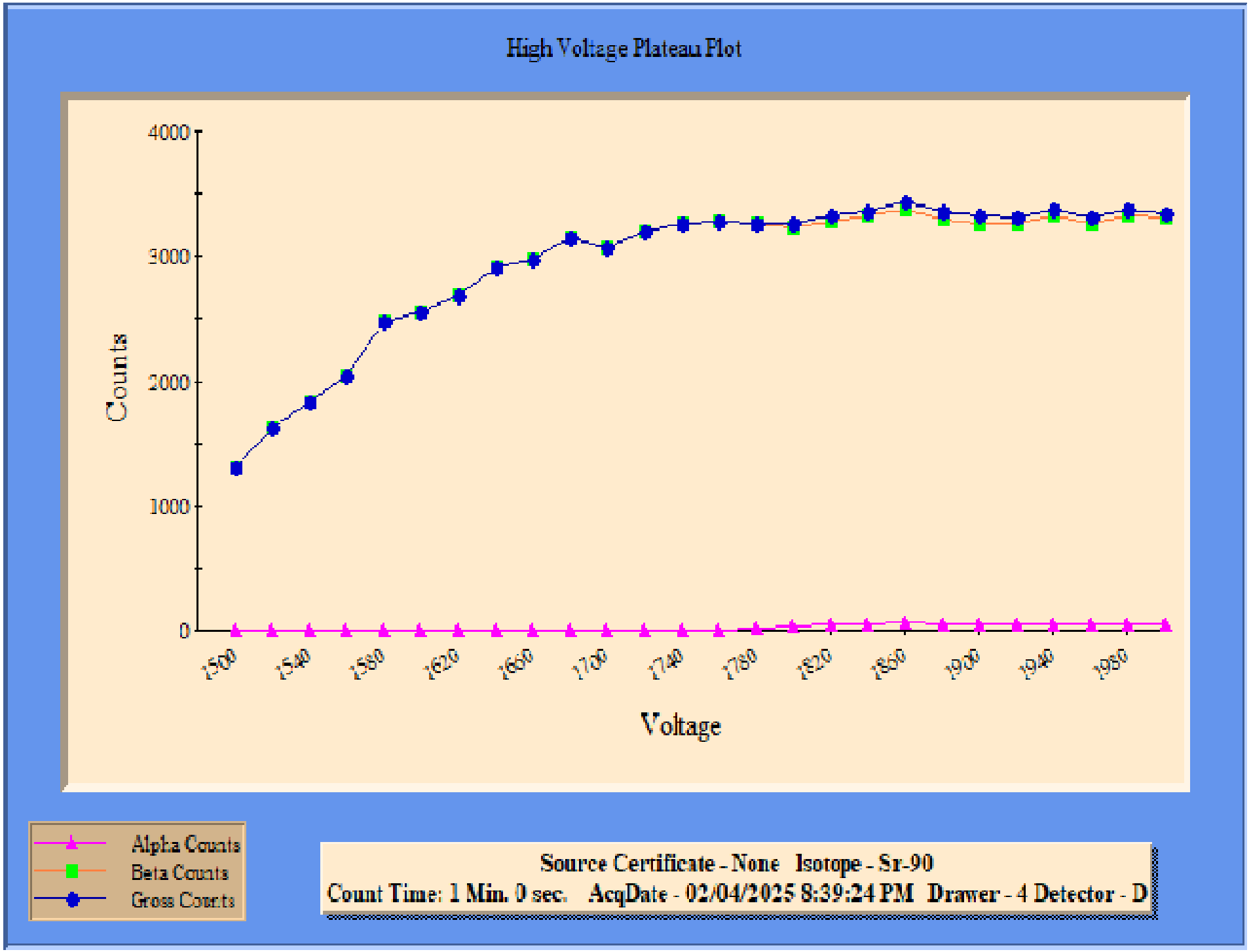

High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - D


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - A


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - B


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - D

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:19
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	1	**Detector:**	A	**Source Certificate:**	23A16260
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Gamma

Count	Beta ROI Counts	Alpha ROI Counts
#	**Chn 1- 899**	**Chn 900 - 1023**
1	3420	3
2	3471	2
3	3488	1
4	3521	1
5	3407	0
6	3542	3
7	3430	3
8	3445	2
9	3520	0
10	3391	1
11	3563	5
12	3421	0
13	3495	2
14	3522	0
15	3443	3
16	3525	2
17	3467	5
18	3474	3
19	3505	5
20	3440	1

(Xbar) Mean:	3474.50	2.10
Calculated Chi-Sqr Value:	13.07	24.67

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: B
Voltage: 1780
Conf Level: 95.0 %
Test Date: 02/04/2025 23:19
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3457	29
2	3352	25
3	3334	18
4	3518	26
5	3381	26
6	3313	29
7	3466	24
8	3450	22
9	3453	23
10	3365	24
11	3479	17
12	3340	32
13	3462	25
14	3413	34
15	3290	25
16	3370	21
17	3392	20
18	3382	24
19	3407	22
20	3384	30

(Xbar) Mean:	3400.40	24.80
Calculated Chi-Sqr Value:	20.64	14.81

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:19
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	1	**Detector:**	C	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3569	3
2	3618	7
3	3684	8
4	3665	11
5	3478	7
6	3504	7
7	3542	12
8	3587	7
9	3657	4
10	3671	9
11	3575	5
12	3618	16
13	3589	1
14	3659	6
15	3542	8
16	3571	9
17	3595	3
18	3643	4
19	3613	10
20	3491	12

(Xbar) Mean:	3593.55	7.45
Calculated Chi-Sqr Value:	19.57	33.95

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:19
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	1	**Detector:**	D	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3397	2
2	3317	1
3	3497	3
4	3363	1
5	3412	4
6	3441	4
7	3392	1
8	3330	0
9	3317	4
10	3320	0
11	3428	0
12	3416	1
13	3432	2
14	3340	0
15	3499	1
16	3339	1
17	3358	2
18	3385	3
19	3424	1
20	3422	1

(Xbar) Mean:	3391.45	1.60
Calculated Chi-Sqr Value:	17.26	21.75

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:52
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	2	**Detector:**	A	**Source Certificate:**	23A16260
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Gamma

Count	Beta ROI Counts	Alpha ROI Counts
#	**Chn 1- 899**	**Chn 900 - 1023**
1	3516	31
2	3578	23
3	3641	19
4	3669	22
5	3514	29
6	3657	24
7	3657	24
8	3542	22
9	3575	28
10	3659	28
11	3539	21
12	3575	28
13	3609	24
14	3593	39
15	3577	15
16	3560	44
17	3664	22
18	3589	17
19	3600	28
20	3605	29

(Xbar) Mean:	3595.95	25.85
Calculated Chi-Sqr Value:	12.75	34.68

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: B
Voltage: 1780
Conf Level: 95.0 %

Test Date: 02/04/2025 23:52
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3210	0
2	3214	4
3	3368	3
4	3272	3
5	3219	2
6	3222	2
7	3281	6
8	3315	4
9	3316	1
10	3255	2
11	3252	1
12	3315	4
13	3355	2
14	3350	1
15	3264	7
16	3226	4
17	3341	3
18	3295	1
19	3218	7
20	3275	3

(Xbar) Mean:	3278.15	3.00
Calculated Chi-Sqr Value:	15.48	24.67

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: C
Voltage: 1780
Conf Level: 95.0 %

Test Date: 02/04/2025 23:52
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3630	15
2	3646	14
3	3679	12
4	3585	21
5	3609	17
6	3618	15
7	3618	9
8	3553	13
9	3730	14
10	3659	15
11	3742	10
12	3739	19
13	3636	15
14	3763	16
15	3635	20
16	3696	16
17	3656	12
18	3651	16
19	3566	21
20	3755	19

(Xbar) Mean:	3658.30	15.45
Calculated Chi-Sqr Value:	20.10	14.04

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: D
Voltage: 1780
Conf Level: 95.0 %

Test Date: 02/04/2025 23:52
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3384	1
2	3335	3
3	3518	8
4	3369	4
5	3354	5
6	3344	2
7	3464	11
8	3304	11
9	3483	7
10	3422	3
11	3444	3
12	3372	3
13	3495	5
14	3430	10
15	3347	5
16	3340	3
17	3438	4
18	3467	8
19	3361	5
20	3431	9

(Xbar) Mean:	3405.10	5.50
Calculated Chi-Sqr Value:	21.22	32.18

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: A
Voltage: 1760
Conf Level: 95.0 %

Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: 23A16260
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3568	5
2	3607	3
3	3542	2
4	3630	1
5	3609	8
6	3624	3
7	3631	4
8	3591	4
9	3528	4
10	3714	7
11	3610	5
12	3700	6
13	3603	6
14	3589	3
15	3461	4
16	3599	3
17	3652	8
18	3558	4
19	3618	3
20	3625	1

(Xbar) Mean:	3602.95	4.20
Calculated Chi-Sqr Value:	16.66	18.38

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: B
Voltage: 1760
Conf Level: 95.0 %

Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3312	4
2	3305	3
3	3410	4
4	3345	2
5	3335	8
6	3314	5
7	3256	8
8	3278	5
9	3326	2
10	3333	4
11	3258	7
12	3334	4
13	3324	9
14	3333	4
15	3277	7
16	3394	7
17	3345	6
18	3195	5
19	3353	4
20	3276	6

(Xbar) Mean:	3315.15	5.20
Calculated Chi-Sqr Value:	13.78	14.46

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: C
Voltage: 1760
Conf Level: 95.0 %

Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3615	10
2	3681	8
3	3674	10
4	3604	11
5	3756	8
6	3682	9
7	3688	8
8	3671	12
9	3759	8
10	3814	7
11	3640	11
12	3671	17
13	3761	11
14	3748	10
15	3713	8
16	3696	12
17	3657	14
18	3680	11
19	3646	12
20	3687	6

(Xbar) Mean:	3692.15	10.15
Calculated Chi-Sqr Value:	14.40	12.47

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: D
Voltage: 1760
Conf Level: 95.0 %

Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3427	7
2	3512	7
3	3432	10
4	3474	8
5	3507	9
6	3484	19
7	3491	10
8	3436	9
9	3494	10
10	3418	12
11	3446	5
12	3363	7
13	3428	10
14	3388	3
15	3357	7
16	3443	9
17	3495	12
18	3456	7
19	3373	2
20	3457	8

(Xbar) Mean:	3444.05	8.55
Calculated Chi-Sqr Value:	12.33	28.18

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/05/2025 15:35
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	4	**Detector:**	A	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	**Chn 1- 899**	**Chn 900 - 1023**
1	3523	8
2	3647	10
3	3651	13
4	3734	14
5	3569	9
6	3576	15
7	3523	19
8	3680	16
9	3630	18
10	3593	9
11	3626	10
12	3647	15
13	3622	12
14	3696	7
15	3520	14
16	3471	16
17	3485	17
18	3504	12
19	3597	15
20	3531	21

(Xbar) Mean:	3591.25	13.50
Calculated Chi-Sqr Value:	29.19	20.81

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: B
Voltage: 1780
Conf Level: 95.0 %

Test Date: 02/05/2025 15:35
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3331	34
2	3331	32
3	3324	30
4	3456	41
5	3219	37
6	3261	31
7	3286	25
8	3360	36
9	3304	30
10	3291	38
11	3247	30
12	3386	43
13	3378	35
14	3363	44
15	3335	25
16	3236	49
17	3326	32
18	3385	33
19	3316	35
20	3455	34

(Xbar) Mean:	3329.50	34.70
Calculated Chi-Sqr Value:	23.78	20.29

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** C
Counting Time: 1 min 0 sec **Voltage:** 1780
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 02/05/2025 15:35
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3653	28
2	3536	20
3	3612	30
4	3468	38
5	3580	16
6	3557	29
7	3580	23
8	3554	28
9	3531	30
10	3564	36
11	3541	36
12	3572	36
13	3489	28
14	3551	24
15	3541	25
16	3530	34
17	3405	33
18	3546	32
19	3525	18
20	3529	19

(Xbar) Mean:	3543.20	28.15
Calculated Chi-Sqr Value:	14.04	29.01

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/05/2025 15:35
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	4	**Detector:**	D	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	**Chn 1- 899**	**Chn 900 - 1023**
1	3347	27
2	3380	31
3	3385	41
4	3362	33
5	3426	41
6	3380	33
7	3333	42
8	3328	43
9	3398	38
10	3495	50
11	3554	28
12	3448	39
13	3476	35
14	3450	43
15	3452	44
16	3538	38
17	3333	33
18	3444	34
19	3396	37
20	3421	36

(Xbar) Mean:	3417.30	37.30
Calculated Chi-Sqr Value:	23.88	16.90

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

SGD GROUP:
METHOD EPA 900/9310
PREP DATE: 2/7/2025 0:00

PREP: CAB4242
ANALYST: ALG3788

BACKGROUNI	CPM	ALPHA	BETA
3A-1	DET1	0.071	1.51
3A-2	DET2	0.075	1.66
3A-3	DET3	0.043	1.44
3A-4	DET4	0.056	1.52
3B-1	DET5	0.040	0.98
3B-2	DET6	0.033	0.96
3B-3	DET7	0.097	0.93
3B-4	DET8	0.051	1.78
3C-1	DET9	0.057	1.09
3C-2	DET10	0.038	1.57
3C-3	DET11	0.051	1.37
3C-4	DET12	0.043	1.05
3D-1	DET13	0.122	1.03
3D-2	DET14	0.060	1.03
3D-3	DET15	0.073	1.06
3D-4	DET16	0.110	1.21

COUNT DATE/TIME	SAMPLE ID	SAMPLI VOL(mL	TARE WEIGHT GRAMS	GROSS WEIGHT GRAMS	NET WT. mg	ALPHA EFF	BETA EFF	DET NO.	ALPHA BKG	BETA BKG	ALPHA COUNTS	BETA COUNTS	COUNT TIME	ALPHA Lc	BETA Lc	ALPHA MDA	BETA MDA	Th-230 Std Xtalk	DET (1-8) Th-230 Std Xtalk	DET (9-16) Th-230 Std Xtalk
=======	=======	======	=======	=======	=====	=====	=====	======	======	======	=====	======	======	======	======	======	======	======		
2/7/25 12:01	ALPHA ICV	1000			0.0	28.6	45.7	1	0.071	1.51	31046	14705	5	0.311	0.897	1.566	2.380	0.437	0.437	NA
2/7/25 12:01	ALPHA ICV	1000			0.0	30.7	47.0	2	0.075	1.66	32059	13943	5	0.297	0.912	**1.474**	**2.393**	0.370	0.370	NA
2/7/25 12:01	ALPHA ICV	1000			0.0	29.5	46.2	3	0.043	1.44	30886	14057	5	0.234	0.867	**1.382**	**2.315**	0.403	0.403	NA
2/7/25 12:01	ALPHA ICV	1000			0.0	28.2	46.4	4	0.056	1.52	29925	16652	5	0.280	0.885	**1.517**	**2.346**	0.471	0.471	NA
2/7/25 12:07	ALPHA ICV	1000			0.0	30.2	46.7	5	0.040	0.98	32677	13395	5	0.221	0.706	**1.334**	**1.986**	0.372	0.372	NA
2/7/25 23:32	ALPHA ICV	1000			0.0	29.1	46.1	6	0.033	0.96	29873	14441	5	0.208	0.709	**1.344**	**1.999**	0.403	0.403	NA
2/7/25 12:07	ALPHA ICV	1000			0.0	30.5	47.1	7	0.097	0.93	30919	14100	5	0.340	0.681	**1.563**	**1.933**	0.363	0.363	NA
2/7/25 12:07	ALPHA ICV	1000			0.0	29.1	46.1	8	0.051	1.78	30492	14903	5	0.258	0.965	**1.442**	**2.511**	0.391	0.391	NA
2/7/25 12:13	ALPHA ICV	1000			0.0	29.5	47.1	9	0.057	1.09	31176	14006	5	0.270	0.740	**1.455**	**2.049**	0.400	NA	0.400
2/7/25 12:13	ALPHA ICV	1000			0.0	29.7	46.7	10	0.038	1.57	31862	13815	5	0.218	0.895	**1.345**	**2.364**	0.402	NA	0.402
2/7/25 12:13	ALPHA ICV	1000			0.0	29.8	47.5	11	0.051	1.37	32180	14145	5	0.252	0.822	**1.408**	**2.208**	0.397	NA	0.397
2/7/25 12:13	ALPHA ICV	1000			0.0	29.7	46.5	12	0.043	1.05	31243	13907	5	0.233	0.732	**1.375**	**2.041**	0.396	NA	0.396
2/7/25 23:32	ALPHA ICV	1000			0.0	30.2	47.1	13	0.122	1.03	30635	14466	5	0.386	0.716	**1.665**	**2.002**	0.363	NA	0.363
2/7/25 12:22	ALPHA ICV	1000			0.0	30.4	46.7	14	0.060	1.03	31692	13763	5	0.269	0.723	**1.427**	**2.021**	0.366	NA	0.366
2/7/25 12:22	ALPHA ICV	1000			0.0	30.4	46.4	15	0.073	1.06	31462	14081	5	0.296	0.739	**1.480**	**2.055**	0.356	NA	0.356
2/7/25 12:22	ALPHA ICV	1000			0.0	30.3	46.5	16	0.110	1.21	32377	13598	5	0.364	0.790	**1.618**	**2.157**	0.359	NA	0.359
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA

GROSS ALPHA AND GROSS BETA DATA REPORT

EPA 900/9310

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SAMPLE ID	GROSS ALPHA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	GROSS BETA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	PREP DATE	ANALYSIS DATE	True Value: 10117 % Recov:
ALPHA ICV	9792.742	108.934	#DIV/0!	0.311	1.566	1.315	224.229	46.903	#DIV/0!	0.897	2.380	1.510	2/7/25 0:00	2/7/25 12:01	0.96795
ALPHA ICV	9412.607	103.038	#DIV/0!	0.297	1.474	1.229	397.054	44.344	#DIV/0!	0.912	2.393	1.512	2/7/25 0:00	2/7/25 12:01	0.93038
ALPHA ICV	9422.632	105.088	#DIV/0!	0.234	1.382	1.235	311.651	45.373	#DIV/0!	0.867	2.315	1.471	2/7/25 0:00	2/7/25 12:01	0.93137
ALPHA ICV	9563.733	108.361	#DIV/0!	0.280	1.517	1.312	497.832	49.106	#DIV/0!	0.885	2.346	1.488	2/7/25 0:00	2/7/25 12:01	0.94531
ALPHA ICV	9742.383	105.634	#DIV/0!	0.221	1.334	1.202	236.096	43.747	#DIV/0!	0.706	1.986	1.287	2/7/25 0:00	2/7/25 12:07	0.96297
ALPHA ICV	9248.905	104.884	#DIV/0!	0.208	1.344	1.239	467.623	46.008	#DIV/0!	0.709	1.999	1.297	2/7/25 0:00	2/7/25 23:32	0.91419
ALPHA ICV	9122.758	101.690	#DIV/0!	0.340	1.563	1.263	550.864	44.555	#DIV/0!	0.681	1.933	1.257	2/7/25 0:00	2/7/25 12:07	0.90173
ALPHA ICV	9425.948	105.802	#DIV/0!	0.258	1.442	1.262	578.978	46.823	#DIV/0!	0.965	2.511	1.582	2/7/25 0:00	2/7/25 12:07	0.93169
ALPHA ICV	9528.185	105.770	#DIV/0!	0.270	1.455	1.256	290.270	44.374	#DIV/0!	0.740	2.049	1.320	2/7/25 0:00	2/7/25 12:13	0.9418
ALPHA ICV	9655.331	106.021	#DIV/0!	0.218	1.345	1.219	191.581	44.493	#DIV/0!	0.895	2.364	1.497	2/7/25 0:00	2/7/25 12:13	0.95437
ALPHA ICV	9714.100	106.138	#DIV/0!	0.252	1.408	1.232	256.718	44.240	#DIV/0!	0.822	2.208	1.406	2/7/25 0:00	2/7/25 12:13	0.96018
ALPHA ICV	9484.013	105.166	#DIV/0!	0.233	1.375	1.228	294.879	44.752	#DIV/0!	0.732	2.041	1.318	2/7/25 0:00	2/7/25 12:13	0.93743
ALPHA ICV	9146.164	102.423	#DIV/0!	0.386	1.665	1.307	638.463	45.066	#DIV/0!	0.716	2.002	1.294	2/7/25 0:00	2/7/25 23:32	0.90404
ALPHA ICV	9406.036	103.560	#DIV/0!	0.269	1.427	1.224	414.999	44.345	#DIV/0!	0.723	2.021	1.306	2/7/25 0:00	2/7/25 12:22	0.92973
ALPHA ICV	9323.930	103.031	#DIV/0!	0.296	1.480	1.238	556.375	45.162	#DIV/0!	0.739	2.055	1.326	2/7/25 0:00	2/7/25 12:22	0.92161
ALPHA ICV	9616.238	104.750	#DIV/0!	0.364	1.618	1.287	384.230	44.328	#DIV/0!	0.790	2.157	1.382	2/7/25 0:00	2/7/25 12:22	0.9505
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	

SGD GROUP:				
METHOD	**EPA 900/9310**			
PREP DATE:	**2/7/2025 0:00**			
PREP:	**CAB4242**			
ANALYST:	**ALG3788**			

BACKGROUNI	CPM	ALPHA	BETA
3A-1	DET1	0.071	1.51
3A-2	DET2	0.075	1.66
3A-3	DET3	0.043	1.44
3A-4	DET4	0.056	1.52
3B-1	DET5	0.040	0.98
3B-2	DET6	0.033	0.96
3B-3	DET7	0.097	0.93
3B-4	DET8	0.051	1.78
3C-1	DET9	0.057	1.09
3C-2	DET10	0.038	1.57
3C-3	DET11	0.051	1.37
3C-4	DET12	0.043	1.05
3D-1	DET13	0.122	1.03
3D-2	DET14	0.060	1.03
3D-3	DET15	0.073	1.06
3D-4	DET16	0.110	1.21

COUNT DATE/TIME	SAMPLE ID	SAMPLI VOL(mL	TARE WEIGHT GRAMS	GROSS WEIGHT GRAMS	NET WT. mg	ALPHA EFF	BETA EFF	DET NO.	ALPHA BKG	BETA BKG	ALPHA COUNTS	BETA COUNTS	COUNT TIME	ALPHA Lc	BETA Lc	ALPHA MDA	BETA MDA	Th-230 Std Xtalk	DET (1-8) Th-230 Std Xtalk	DET (9-16) Th-230 Std Xtalk
2/7/25 23:54	BETA ICV	1000			0.0	28.6	45.7	1	0.071	1.51	13	17789	5	0.311	0.897	1.566	2.380	0.437	0.437	NA
2/7/25 15:51	BETA ICV	1000			0.0	30.7	47.0	2	0.075	1.66	125	18376	5	0.297	0.912	**1.474**	**2.393**	0.370	0.370	NA
2/7/25 15:51	BETA ICV	1000			0.0	29.5	46.2	3	0.043	1.44	8	17713	5	0.234	0.867	**1.382**	**2.315**	0.403	0.403	NA
2/7/25 15:51	BETA ICV	1000			0.0	28.2	46.4	4	0.056	1.52	9	18117	5	0.280	0.885	**1.517**	**2.346**	0.471	0.471	NA
2/7/25 23:54	BETA ICV	1000			0.0	30.2	46.7	5	0.040	0.98	104	17980	5	0.221	0.706	**1.334**	**1.986**	0.372	0.372	NA
2/7/25 23:00	BETA ICV	1000			0.0	29.1	46.1	6	0.033	0.96	5	16379	5	0.208	0.709	**1.344**	**1.999**	0.403	0.403	NA
2/7/25 15:51	BETA ICV	1000			0.0	30.5	47.1	7	0.097	0.93	30	18538	5	0.340	0.681	**1.563**	**1.933**	0.363	0.363	NA
2/7/25 15:51	BETA ICV	1000			0.0	29.1	46.1	8	0.051	1.78	12	18208	5	0.258	0.965	**1.442**	**2.511**	0.391	0.391	NA
2/7/25 15:52	BETA ICV	1000			0.0	29.5	47.1	9	0.057	1.09	13	17522	5	0.270	0.740	**1.455**	**2.049**	0.400	NA	0.400
2/7/25 15:52	BETA ICV	1000			0.0	29.7	46.7	10	0.038	1.57	15	17298	5	0.218	0.895	**1.345**	**2.364**	0.402	NA	0.402
2/7/25 15:52	BETA ICV	1000			0.0	29.8	47.5	11	0.051	1.37	29	18336	5	0.252	0.822	**1.408**	**2.208**	0.397	NA	0.397
2/7/25 23:00	BETA ICV	1000			0.0	29.7	46.5	12	0.043	1.05	51	17115	5	0.233	0.732	**1.375**	**2.041**	0.396	NA	0.396
2/7/25 23:01	BETA ICV	1000			0.0	30.2	47.1	13	0.122	1.03	15	17705	5	0.386	0.716	**1.665**	**2.002**	0.363	NA	0.363
2/7/25 15:57	BETA ICV	1000			0.0	30.4	46.7	14	0.060	1.03	105	17926	5	0.269	0.723	**1.427**	**2.021**	0.366	NA	0.366
2/7/25 15:57	BETA ICV	1000			0.0	30.4	46.4	15	0.073	1.06	25	17634	5	0.296	0.739	**1.480**	**2.055**	0.356	NA	0.356
2/7/25 15:57	BETA ICV	1000			0.0	30.3	46.5	16	0.110	1.21	118	18174	5	0.364	0.790	**1.618**	**2.157**	0.359	NA	0.359
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA

GROSS ALPHA AND GROSS BETA DATA REPORT
EPA 900/9310
0

SAMPLE ID	GROSS ALPHA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	GROSS BETA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	PREP DATE	ANALYSIS DATE	True Value: 3547.52 % Recov:
BETA ICV	3.989	2.259	#DIV/0!	0.311	1.566	1.315	3506.965	51.585	#DIV/0!	0.897	2.380	1.510	2/7/25 0:00	2/7/25 23:54	0.98857
BETA ICV	36.591	6.444	#DIV/0!	0.297	1.474	1.229	3509.413	50.904	#DIV/0!	0.912	2.393	1.512	2/7/25 0:00	2/7/25 15:51	0.98926
BETA ICV	2.375	1.714	#DIV/0!	0.234	1.382	1.235	3455.593	50.930	#DIV/0!	0.867	2.315	1.471	2/7/25 0:00	2/7/25 15:51	0.97409
BETA ICV	2.787	1.908	#DIV/0!	0.280	1.517	1.312	3514.386	51.220	#DIV/0!	0.885	2.346	1.488	2/7/25 0:00	2/7/25 15:51	0.99066
BETA ICV	30.947	5.965	#DIV/0!	0.221	1.334	1.202	3458.447	50.682	#DIV/0!	0.706	1.986	1.287	2/7/25 0:00	2/7/25 23:54	0.97489
BETA ICV	1.497	1.379	#DIV/0!	0.208	1.344	1.239	3197.490	48.997	#DIV/0!	0.709	1.999	1.297	2/7/25 0:00	2/7/25 23:00	0.90133
BETA ICV	8.709	3.193	#DIV/0!	0.340	1.563	1.263	3545.355	51.086	#DIV/0!	0.681	1.933	1.257	2/7/25 0:00	2/7/25 15:51	0.99939
BETA ICV	3.631	2.121	#DIV/0!	0.258	1.442	1.262	3559.394	51.752	#DIV/0!	0.965	2.511	1.582	2/7/25 0:00	2/7/25 15:51	1.00335
BETA ICV	3.886	2.183	#DIV/0!	0.270	1.455	1.256	3349.249	49.630	#DIV/0!	0.740	2.049	1.320	2/7/25 0:00	2/7/25 15:52	0.94411
BETA ICV	4.488	2.315	#DIV/0!	0.218	1.345	1.219	3337.178	49.783	#DIV/0!	0.895	2.364	1.497	2/7/25 0:00	2/7/25 15:52	0.94071
BETA ICV	8.677	3.200	#DIV/0!	0.252	1.408	1.232	3475.499	50.366	#DIV/0!	0.822	2.208	1.406	2/7/25 0:00	2/7/25 15:52	0.9797
BETA ICV	15.416	4.258	#DIV/0!	0.233	1.375	1.228	3308.194	49.644	#DIV/0!	0.732	2.041	1.318	2/7/25 0:00	2/7/25 23:00	0.93254
BETA ICV	4.296	2.312	#DIV/0!	0.386	1.665	1.307	3382.042	49.855	#DIV/0!	0.716	2.002	1.294	2/7/25 0:00	2/7/25 23:01	0.95335
BETA ICV	31.075	5.969	#DIV/0!	0.269	1.427	1.224	3448.113	50.608	#DIV/0!	0.723	2.021	1.306	2/7/25 0:00	2/7/25 15:57	0.97198
BETA ICV	7.301	2.925	#DIV/0!	0.296	1.480	1.238	3420.760	50.538	#DIV/0!	0.739	2.055	1.326	2/7/25 0:00	2/7/25 15:57	0.96427
BETA ICV	34.884	6.338	#DIV/0!	0.364	1.618	1.287	3514.643	51.244	#DIV/0!	0.790	2.157	1.382	2/7/25 0:00	2/7/25 15:57	0.99073
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	

G542 Unit 4
Calibration 07/24

	High Voltage	Changed?	Chi Sq Passed?	Notes
A Drawer	1760	(Y)/N	(Y)/N	
B Drawer	1760	(Y)/N	(Y)/N	
C Drawer	1780	(Y)/N	(Y)/N	
D Drawer	1760	(Y)/N	(Y)/N	4D-4 OOS

Comments:

Collected by: _____ Date: 7/26/24

Approved by: _____ Date: 7/29/24

Detector Names Unit 4:

Numerical:	Instrument:	PACE:
1	1A	4A-1
2	1B	4A-2
3	1C	4A-3
4	1D	4A-4
5	2A	4B-1
6	2B	4B-2
7	2C	4B-3
8	2D	4B-4
9	3A	4C-1
10	3B	4C-2
11	3C	4C-3
12	3D	4C-4
13	4A	4D-1
14	4B	4D-2
15	4C	4D-3
16	4D	4D-4

Standards Used:

23F04840	23F04832	23F04838	23F04831
23F04828	23F04839	23F04841	23F04834
23F04836	23F04835		23F04827

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer A

7/8/2024

4A-1=	Det1=	1A				4A-2=	Det2=	1B			
	Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
	1500	1336	1336	0			1500	1467	1467	0	
	1520	1697	1696	1			1520	1677	1675	2	
	1540	1834	1833	1			1540	1971	1967	4	
	1560	2130	2128	2			1560	2312	2307	5	
	1580	2358	2355	3			1580	2613	2611	2	
	1600	2553	2551	2			1600	2756	2754	2	
	1620	2828	2827	1			1620	3014	3012	2	
	1640	2960	2956	4			1640	3181	3180	1	
	1660	3156	3154	2			1660	3370	3369	1	
	1680	3252	3248	4			1680	3546	3545	1	
	1700	3283	3282	1			1700	3567	3566	1	
	1720	3321	3318	3			1720	3594	3591	3	
	1740	3391	3388	3			1740	3623	3617	6	
	1760	3443	3426	17	0.50%		1760	3716	3697	19	0.51%
	1780	3441	3411	30	0.88%		1780	3799	3754	45	1.20%
	1800	3397	3308	89			1800	3707	3614	93	
	1820	3471	3367	104			1820	3722	3601	121	
	1840	3408	3305	103			1840	3780	3681	99	
	1860	3422	3317	105			1860	3778	3655	123	
	1880	3549	3418	131			1880	3707	3605	102	
	1900	3442	3338	104			1900	3886	3766	120	
	1920	3430	3322	108			1920	3874	3739	135	
	1940	3353	3262	90			1940	3806	3687	119	
	1960	3472	3372	100			1960	3739	3620	119	
	1980	3432	3320	112			1980	3679	3576	103	
	2000	3473	3367	106			2000	3717	3584	133	
	1740	0.77%	26				1740	1.32%	48		
Slope Calc:	1760	1.45%	49				1760	0.27%	10		
	1780	2.46%	83				1780	1.75%	64		
	1800	3.25%	109				1800	1.15%	42		

4A-3=	Det3=	1C				4A-4=	Det4=	1D			
	Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
	1500	1704	1704	0			1500	1860	4860	0	
	1520	2030	2027	3			1520	2095	2094	1	
	1540	2260	2259	1			1540	2468	2468	0	
	1560	2549	2548	1			1560	2644	2644	0	
	1580	2870	2870	0			1580	2968	2968	0	
	1600	2809	2808	1			1600	3123	3121	2	
	1620	3254	3251	3			1620	3186	3185	1	
	1640	3340	3338	2			1640	3448	3448	0	
	1660	3406	3404	2			1660	3501	3501	0	
	1680	3535	3532	3			1680	3578	3577	1	
	1700	3525	3522	3			1700	3638	3636	2	
	1720	3625	3620	5			1720	3666	3664	2	
	1740	3652	3647	5			1740	3672	3670	2	
	1760	3709	3678	31	0.84%		1760	3835	3827	8	0.21%
	1780	3736	3674	62	1.69%		1780	3793	3771	22	0.58%
	1800	3746	3624	122			1800	3898	3858	40	
	1820	3725	3600	125			1820	3756	3691	65	
	1840	3662	3529	133			1840	3759	3696	63	
	1860	3816	3680	136			1860	3899	3827	72	
	1880	3921	3777	144			1880	3800	3729	71	
	1900	3782	3633	149			1900	3877	3811	66	
	1920	3803	3674	129			1920	3803	3723	80	
	1940	3848	3713	135			1940	3768	3714	54	
	1960	3653	3506	147			1960	3699	3625	74	
	1980	3697	3552	144			1980	3776	3714	62	
	2000	3785	3617	168			2000	3749	3690	59	
	1740	2.81%	102				1740	5.94%	222		
Slope Calc:	1760	0.55%	20				1760	0.72%	27		
	1780	3.25%	118				1780	0.69%	26		
	1800	0.06%	2				1800	0.00%	0		

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer B

7/8/2024

4B-1= Det5= 2A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1299	1299	0	
1520	1515	1513	2	
1540	1675	1673	2	
1560	1965	1964	1	
1580	2414	2413	1	
1600	2395	2394	1	
1620	2795	2795	0	
1640	3041	3041	0	
1660	3324	3321	3	
1680	3414	3412	2	
1700	3425	3423	2	
1720	3565	3564	1	
1740	3630	3629	1	
1760	3548	3544	4	0.11%
1780	3707	3696	11	0.30%
1800	3658	3633	25	
1820	3652	3617	35	
1840	3786	3753	33	
1860	3621	3588	33	
1880	3606	3575	31	
1900	3692	3654	38	
1920	3745	3712	33	
1940	3704	3670	34	
1960	3802	3768	34	
1980	3729	3696	33	
2000	3644	3614	30	

4B-2= Det6= 2B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1750	1750	0	
1520	1997	1996	1	
1540	2351	2351	0	
1560	2654	2652	2	
1580	2897	2896	1	
1600	3146	3143	3	
1620	3228	3226	2	
1640	3449	3448	1	
1660	3371	3370	1	
1680	3636	3635	1	
1700	3602	3599	3	
1720	3702	3701	1	
1740	3639	3636	3	
1760	3679	3675	4	0.11%
1780	3753	3740	13	0.35%
1800	3815	3778	37	
1820	3802	3766	36	
1840	3842	3798	44	
1860	3774	3736	38	
1880	3851	3806	45	
1900	3862	3810	52	
1920	3769	3735	34	
1940	3822	3777	45	
1960	3744	3696	48	
1980	3968	3925	43	
2000	3765	3724	41	

4B-3= Det7= 2C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2332	2331	1	
1520	2596	2594	2	
1540	2973	2971	2	
1560	3164	3164	0	
1580	3349	3348	1	
1600	3462	3460	2	
1620	3508	3506	2	
1640	3512	3510	2	
1660	3679	3676	3	
1680	3705	3705	0	
1700	3658	3652	6	
1720	3793	3790	3	
1740	3761	3742	19	
1760	3860	3791	69	1.82%
1780	3873	3768	105	2.79%
1800	3819	3651	168	
1820	3869	3654	215	
1840	3828	3605	223	
1860	3884	3687	197	
1880	3898	3670	228	
1900	3896	3726	169	
1920	3793	3626	167	
1940	3961	3756	205	
1960	3814	3628	185	
1980	3845	3638	207	
2000	3847	3669	178	

4B-4= Det8= 2D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1889	1889	0	
1520	2196	2196	0	
1540	2391	2390	1	
1560	2690	2689	1	
1580	2790	2789	1	
1600	2991	2991	0	
1620	2117	3114	3	
1640	2140	3139	1	
1660	3223	3221	2	
1680	3376	3374	2	
1700	3257	3255	2	
1720	3346	3335	11	
1740	3428	3410	18	
1760	3405	3366	39	1.16%
1780	3394	3301	93	2.82%
1800	3539	3385	153	
1820	3475	3296	179	
1840	3395	3234	161	
1860	3312	3133	178	
1880	3457	3275	181	
1900	3401	3236	165	
1920	3484	3305	179	
1940	3396	3202	193	
1960	3585	3387	198	
1980	3491	3319	172	
2000	3391	3216	175	

Slope Calc:

1760	1.47%	53		1760	1.75%	65		1760	3.64%	136		1760	1.16%	39
1780	3.40%	124		1780	4.34%	162		1780	3.70%	137		1780	5.28%	176
1800	1.21%	44		1800	1.63%	61		1800	2.82%	104		1800	7.09%	233
1820	3.32%	121		1820	1.75%	66		1820	2.67%	98		1820	0.79%	26

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer C

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4C-1= Det9= 3A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	754	754	0	
1520	952	952	0	
1540	1206	1206	0	
1560	1415	1414	1	
1580	1643	1643	0	
1600	1835	1835	0	
1620	2197	2193	4	
1640	2385	2385	0	
1660	2566	2566	0	
1680	2789	2787	2	
1700	2837	2835	2	
1720	2882	2881	1	
1740	3144	3142	2	
1760	3290	3286	4	0.12%
1780	3183	3181	2	0.06%
1800	3151	3146	5	
1820	3295	3288	7	
1840	3358	3344	14	
1860	3185	3170	15	
1880	3225	3214	11	
1900	3241	3228	13	
1920	3277	3266	11	
1940	3384	3374	10	
1960	3428	3419	9	
1980	3319	3310	9	
2000	3284	3276	8	

1740	14.57%	453		
1760	14.55%	463		
Slope Calc: 1780	0.87%	28		
1800	2.23%	72		
1820	1.46%	47		
1840	3.71%	120		

4C-2= Det10= 3B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1273	1273	0	
1520	1519	1519	0	
1540	1856	1856	0	
1560	2167	2166	1	
1580	2332	2330	2	
1600	2527	2527	0	
1620	2853	2852	1	
1640	2981	2980	1	
1660	3165	3162	3	
1680	3302	3300	2	
1700	3413	3411	2	
1720	3431	3428	3	
1740	3578	3573	5	
1760	3579	3571	8	0.22%
1780	3608	3579	29	0.81%
1800	3679	3613	66	
1820	3634	3563	71	
1840	3677	3597	80	
1860	3655	3581	74	
1880	3551	3478	73	
1900	3807	3728	79	
1920	3630	3565	65	
1940	3606	3549	57	
1960	3631	3554	77	
1980	3728	3664	64	
2000	3811	3744	67	

1740	4.30%	152	
1760	4.75%	169	
1780	0.22%	8	
1800	2.61%	93	
1820	4.15%	149	
1840	1.34%	48	

4C-3= Det11= 3C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1365	1363	2	
1520	1608	1606	2	
1540	1897	1896	1	
1560	2182	2182	0	
1580	2496	2495	1	
1600	2604	2603	1	
1620	2792	2789	3	
1640	3135	3135	0	
1660	3276	3274	2	
1680	3434	3429	5	
1700	3562	3559	3	
1720	3460	3456	4	
1740	3628	3620	8	
1760	3625	3610	15	0.42%
1780	3662	3635	27	0.74%
1800	3680	3622	58	
1820	3653	3563	90	
1840	3607	3528	79	
1860	3705	3611	94	
1880	3646	3563	83	
1900	3697	3626	71	
1920	3713	3638	75	
1940	3709	3620	89	
1960	3681	3618	63	
1980	3648	3569	79	
2000	3649	3582	67	

1740	0.11%	4	
1760	2.01%	72	
1780	0.25%	9	
1800	1.31%	47	
1820	0.25%	9	
1840	0.45%	16	

4C-4= Det12= 3D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1435	1435	0	
1520	1685	1682	3	
1540	1870	1870	0	
1560	2204	2204	0	
1580	2516	2515	1	
1600	2767	2766	1	
1620	2954	2953	1	
1640	3097	3096	1	
1660	3337	3334	3	
1680	3411	3405	6	
1700	3485	3483	2	
1720	3548	3545	3	
1740	3629	3625	4	
1760	3562	3553	9	0.25%
1780	3650	3607	43	1.19%
1800	3660	3581	79	
1820	3654	3541	113	
1840	3673	3566	107	
1860	3614	3507	107	
1880	3810	3705	105	
1900	3558	3473	85	
1920	3709	3604	105	
1940	3688	3584	104	
1960	3693	3596	97	
1980	3518	3425	93	
2000	3671	3555	116	

1740	1.63%	58	
1760	0.59%	21	
1780	3.31%	118	
1800	4.25%	152	
1820	3.76%	134	
1840	0.64%	23	

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer D

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4D-1=	Det13=	4A			4D-2=	Det14=	4B			4D-3=	Det15=	4C			4D-4=	Det16=	4D		
Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts		Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts		Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts		Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1897	1896	1		1500	2096	2095	1		1500	1493	1492	1		1500	582	582	0	
1520	2136	2136	0		1520	2391	2390	1		1520	1702	1700	2		1520	770	769	1	
1540	2462	2460	2		1540	2719	2717	2		1540	1975	1975	0		1540	936	935	1	
1560	2698	2698	0		1560	2989	2987	2		1560	2257	2253	4		1560	1205	1205	0	
1580	2958	2958	0		1580	3092	3090	2		1580	2523	2523	0		1580	1398	1396	2	
1600	3107	3106	1		1600	3234	3233	1		1600	2755	2754	1		1600	1576	1576	0	
1620	3250	3247	3		1620	3313	3312	1		1620	3046	3044	2		1620	1732	1732	0	
1640	3353	3349	4		1640	3557	3555	2		1640	3158	3158	0		1640	2073	2071	2	
1660	3472	3471	1		1660	3596	3595	1		1660	3442	3441	1		1660	2339	2338	1	
1680	3517	3514	3		1680	3634	3631	3		1680	3476	3474	2		1680	2576	2575	1	
1700	3561	3559	2		1700	3809	3806	3		1700	3402	3401	1		1700	2719	2718	1	
1720	3496	3493	3		1720	3630	3630	0		1720	3574	3573	1		1720	2868	2867	1	
1740	3642	3629	13		1740	3778	3772	6		1740	3664	3663	1		1740	3051	3048	3	
1760	3789	3764	25	0.66%	1760	3724	3707	17	0.46%	1760	3563	3558	5	0.14%	1760	3223	3220	3	0.09%
1780	3656	3578	78	2.18%	1780	3803	3770	33	0.88%	1780	3708	3706	2	0.05%	1780	3258	3253	5	0.15%
1800	3735	3608	127	3.52%	1800	3818	3735	83	2.22%	1800	3735	3709	26	0.70%	1800	3307	3303	4	0.12%
1820	3689	3529	160	4.53%	1820	3819	3733	86	2.30%	1820	3768	3726	42	1.13%	1820	3243	3240	3	0.09%
1840	3656	3493	163		1840	3696	3598	98		1840	3818	3789	29		1840	3348	3345	3	
1860	3797	3623	174		1860	3848	3776	72		1860	3777	3746	31		1860	3358	3355	3	
1880	3792	3611	181		1880	3788	3683	105		1880	3822	3788	34		1880	3310	3307	3	
1900	3877	3715	162		1900	3860	3780	80		1900	3773	3749	24		1900	3351	3346	5	
1920	3765	3612	153		1920	3799	3712	87		1920	3713	3678	35		1920	3311	3305	6	
1940	3729	3556	173		1940	3845	3770	75		1940	3703	3672	31		1940	3275	3268	7	
1960	3800	3617	183		1960	3773	3683	90		1960	3722	3708	14		1960	3268	3265	3	
1980	3664	3489	175		1980	3901	3812	89		1980	3695	3664	31		1980	3271	3269	2	
2000	3808	3634	174		2000	3842	3749	93		2000	3706	3681	25		2000	3396	3393	3	

1740	1.4%	49			1740	1.9%	71			1740	8.5%	308			1740	18.9%	585		
1760	1.0%	36			1760	2.8%	103			1760	4.2%	153			1760	11.7%	373		
1780	3.8%	136			1780	4.7%	174			1780	3.4%	126			1780	9.1%	297		
1800	3.9%	141			1800	1.9%	69			1800	5.1%	188			1800	4.1%	135		
1820	0.9%	33			1820	2.3%	87			1820	2.2%	82			1820	1.6%	54		

NOT IN SERVICE

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Sr-90
124007
ESC51613
22J11029

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	01-Jul-24
PREP:	13-Sep-22

Ao =	940.91	nCi				
N =	0.02					
T(1/2) =	28.60	years				
T =	1.85	years				
dilution =	1000.00					
A =	899.65	nCi	SR90/Y90			
A =	1997.22	dpm/ml	3994.4459	399.4446		
A =	899.65	pCi/ml	1799.3			
A =	899.65	+/-	16.207189	pCi/ml	3994.445911	
						11983.33773

Uncertainty	0.0173
Weight	0.05%
Volume (1000 ml)	0.50%
CSU	1.80%

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 14:29
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1336	1336	0
1520	1697	1696	1
1540	1834	1833	1
1560	2130	2128	2
1580	2358	2355	3
1600	2553	2551	2
1620	2828	2827	1
1640	2960	2956	4
1660	3156	3154	2
1680	3252	3248	4
1700	3283	3282	1
1720	3321	3318	3
1740	3391	3388	3
1760	3443	3426	17
1780	3441	3411	30
1800	3397	3308	89
1820	3471	3367	104
1840	3408	3305	103
1860	3422	3317	105
1880	3549	3418	131
1900	3442	3338	104
1920	3430	3322	108
1940	3353	3262	90
1960	3472	3372	100
1980	3432	3320	112
2000	3473	3367	106

Special Notes:

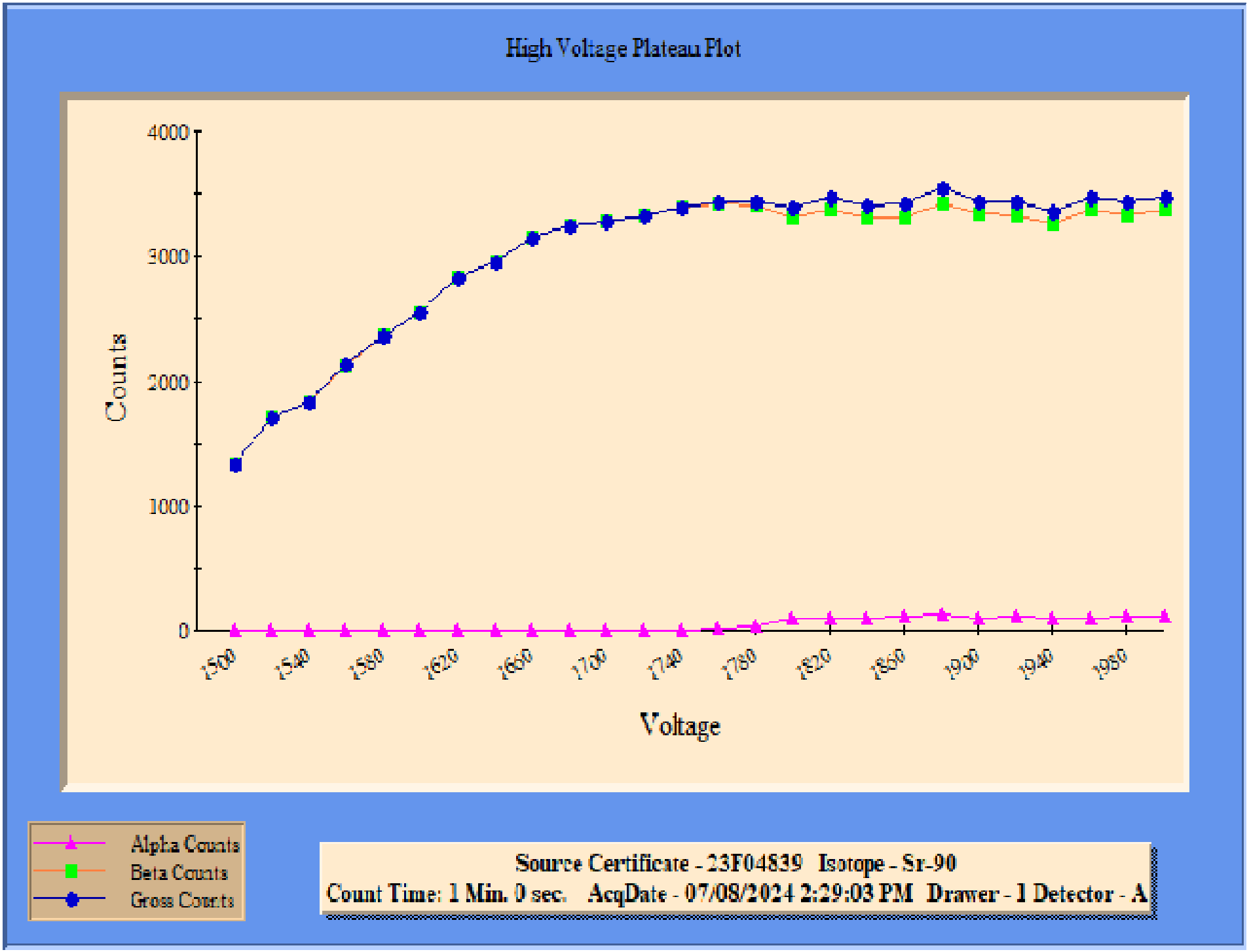
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 2:29:03 PM Drawer - 1 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 15:50
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1467	1467	0
1520	1677	1675	2
1540	1971	1967	4
1560	2312	2307	5
1580	2613	2611	2
1600	2756	2754	2
1620	3014	3012	2
1640	3181	3180	1
1660	3370	3369	1
1680	3546	3545	1
1700	3567	3566	1
1720	3594	3591	3
1740	3623	3617	6
1760	3716	3697	19
1780	3799	3754	45
1800	3707	3614	93
1820	3722	3601	121
1840	3780	3681	99
1860	3778	3655	123
1880	3707	3605	102
1900	3886	3766	120
1920	3874	3739	135
1940	3806	3687	119
1960	3739	3620	119
1980	3679	3576	103
2000	3717	3584	133

Special Notes:

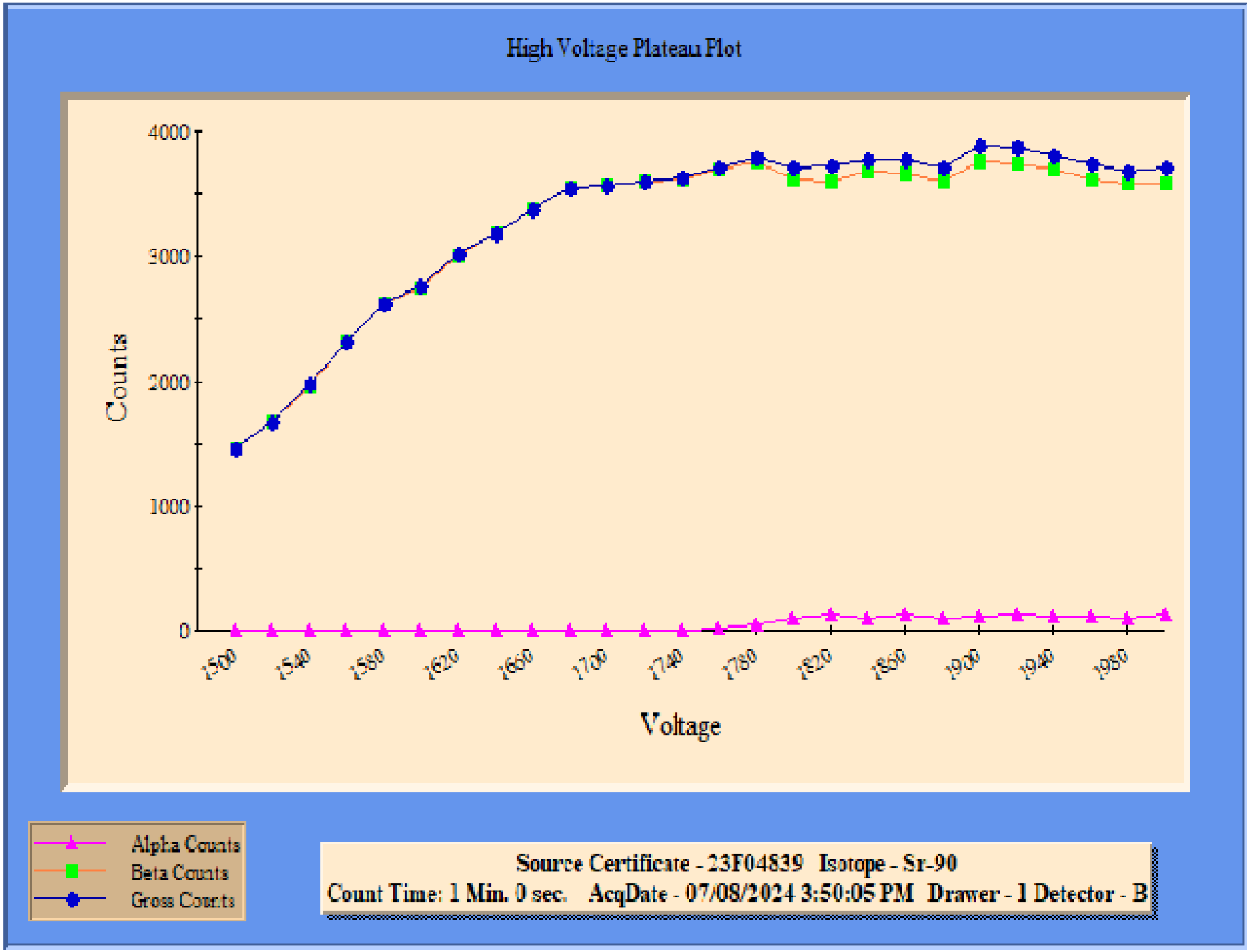
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 3:50:05 PM Drawer - 1 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 16:21
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1704	1704	0
1520	2030	2027	3
1540	2260	2259	1
1560	2549	2548	1
1580	2870	2870	0
1600	2809	2808	1
1620	3254	3251	3
1640	3340	3338	2
1660	3406	3404	2
1680	3535	3532	3
1700	3525	3522	3
1720	3625	3620	5
1740	3652	3647	5
1760	3709	3678	31
1780	3736	3674	62
1800	3746	3624	122
1820	3725	3600	125
1840	3662	3529	133
1860	3816	3680	136
1880	3921	3777	144
1900	3782	3633	149
1920	3803	3674	129
1940	3848	3713	135
1960	3653	3506	147
1980	3697	3552	144
2000	3785	3617	168

Special Notes:

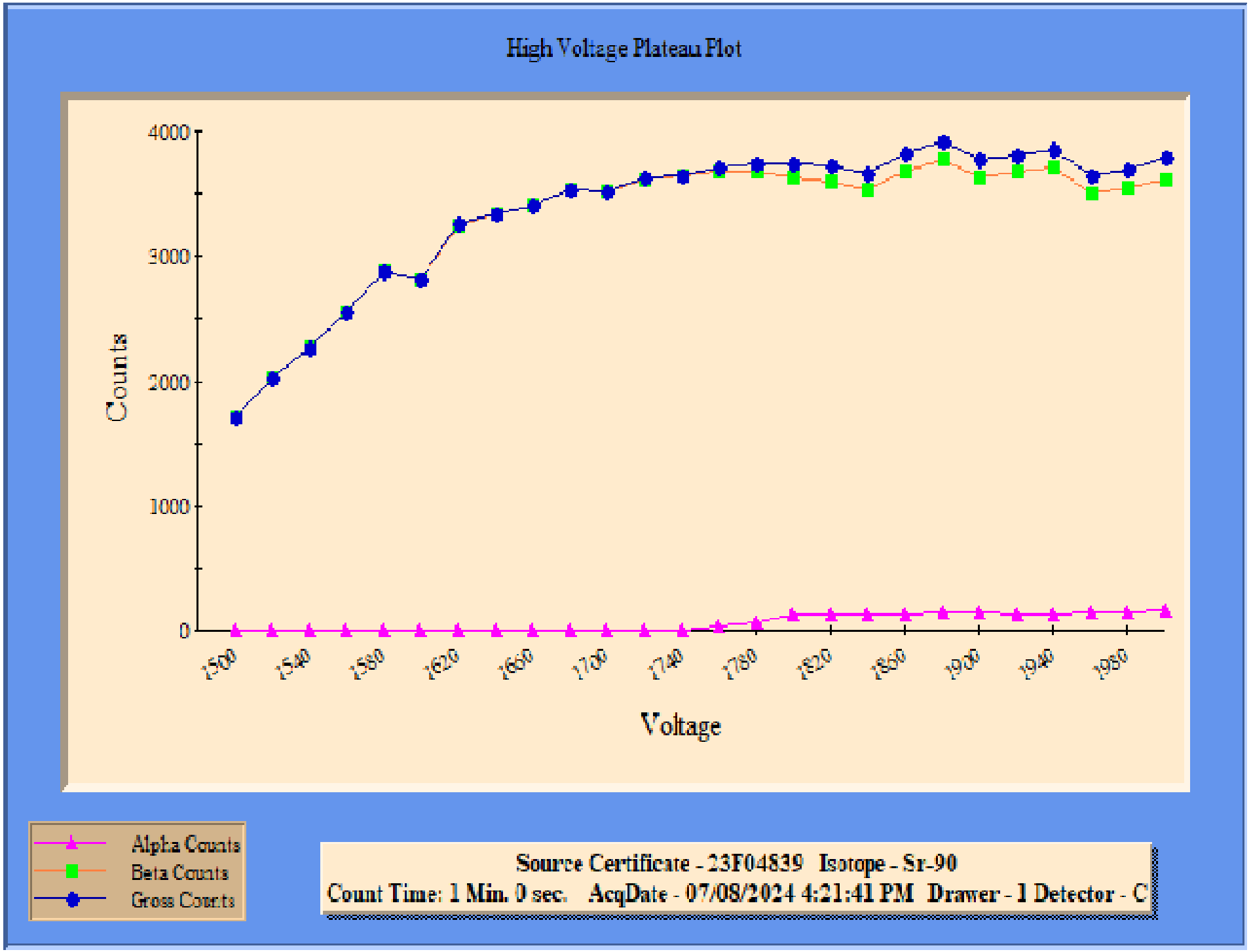
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 4:21:41 PM Drawer - 1 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 16:59
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1860	1860	0
1520	2095	2094	1
1540	2468	2468	0
1560	2644	2644	0
1580	2968	2968	0
1600	3123	3121	2
1620	3186	3185	1
1640	3448	3448	0
1660	3501	3501	0
1680	3578	3577	1
1700	3638	3636	2
1720	3666	3664	2
1740	3672	3670	2
1760	3835	3827	8
1780	3793	3771	22
1800	3898	3858	40
1820	3756	3691	65
1840	3759	3696	63
1860	3899	3827	72
1880	3800	3729	71
1900	3877	3811	66
1920	3803	3723	80
1940	3768	3714	54
1960	3699	3625	74
1980	3776	3714	62
2000	3749	3690	59

Special Notes:

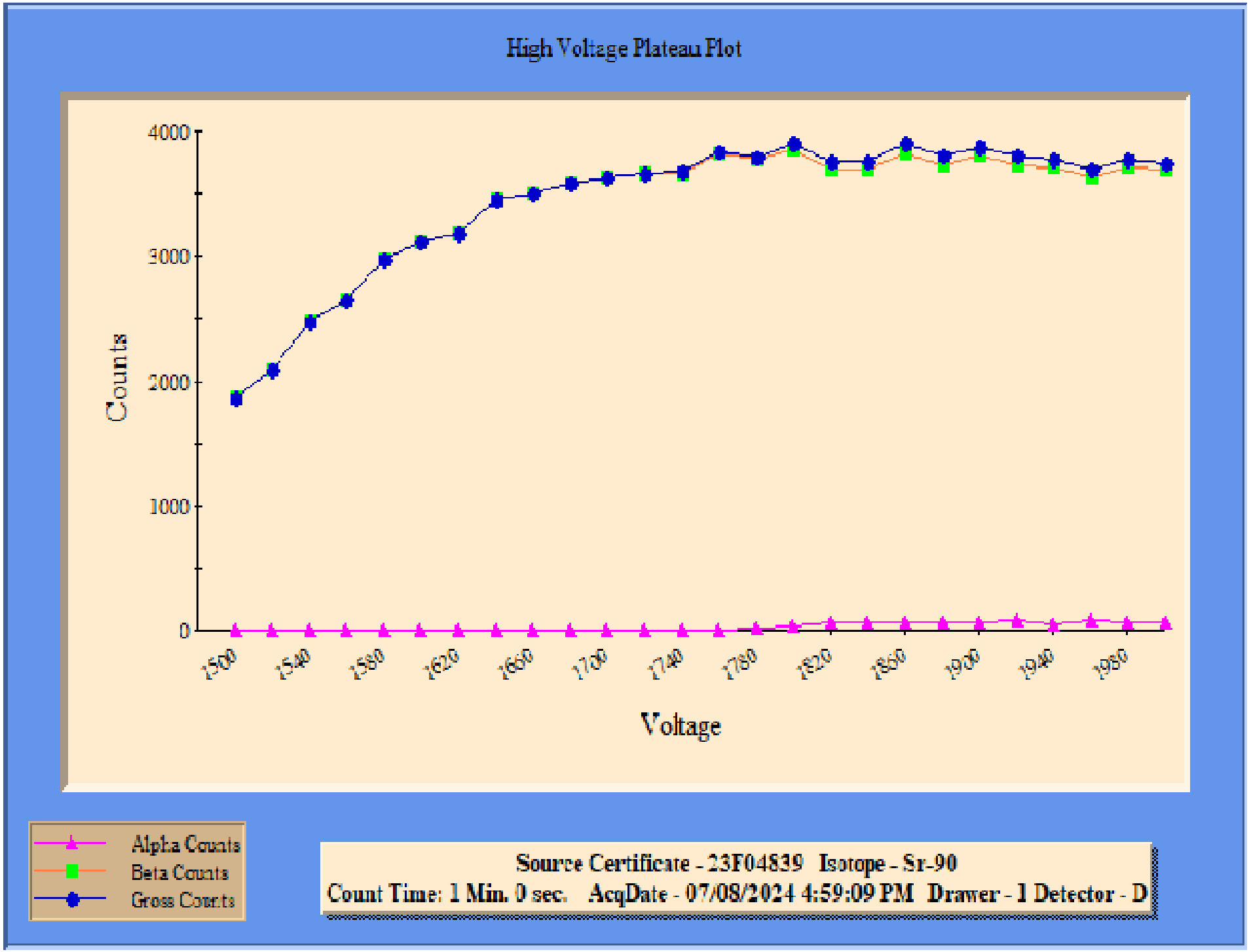
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 4:59:09 PM Drawer - 1 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 17:59
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1299	1299	0
1520	1515	1513	2
1540	1675	1673	2
1560	1965	1964	1
1580	2414	2413	1
1600	2395	2394	1
1620	2795	2795	0
1640	3041	3041	0
1660	3324	3321	3
1680	3414	3412	2
1700	3425	3423	2
1720	3565	3564	1
1740	3630	3629	1
1760	3548	3544	4
1780	3707	3696	11
1800	3658	3633	25
1820	3652	3617	35
1840	3786	3753	33
1860	3621	3588	33
1880	3606	3575	31
1900	3692	3654	38
1920	3745	3712	33
1940	3704	3670	34
1960	3802	3768	34
1980	3729	3696	33
2000	3644	3614	30

Special Notes:

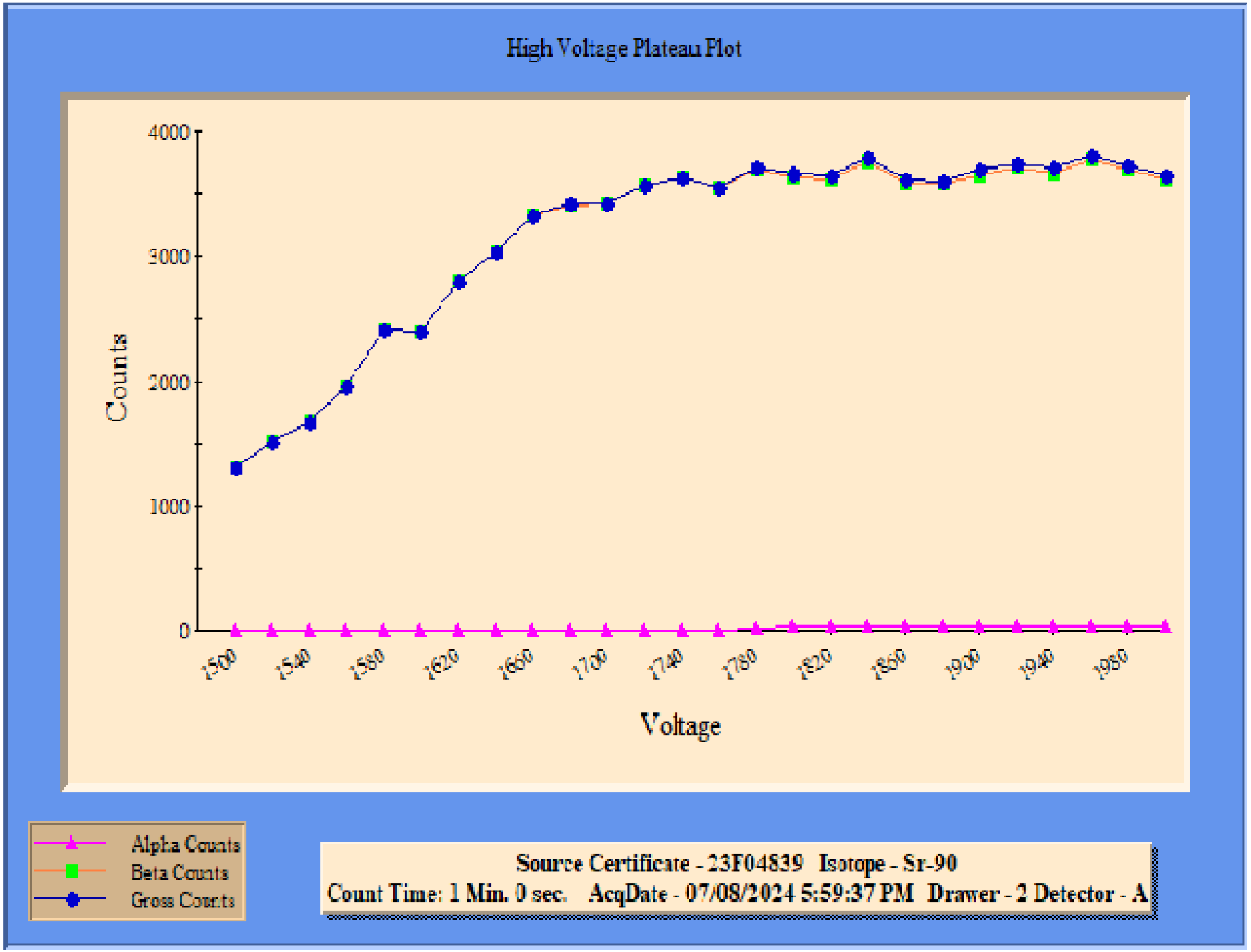
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 5:59:37 PM Drawer - 2 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 18:30
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000

Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1750	1750	0
1520	1997	1996	1
1540	2351	2351	0
1560	2654	2652	2
1580	2897	2896	1
1600	3146	3143	3
1620	3228	3226	2
1640	3449	3448	1
1660	3371	3370	1
1680	3636	3635	1
1700	3602	3599	3
1720	3702	3701	1
1740	3639	3636	3
1760	3679	3675	4
1780	3753	3740	13
1800	3815	3778	37
1820	3802	3766	36
1840	3842	3798	44
1860	3774	3736	38
1880	3851	3806	45
1900	3862	3810	52
1920	3769	3735	34
1940	3822	3777	45
1960	3744	3696	48
1980	3968	3925	43
2000	3765	3724	41

Special Notes:

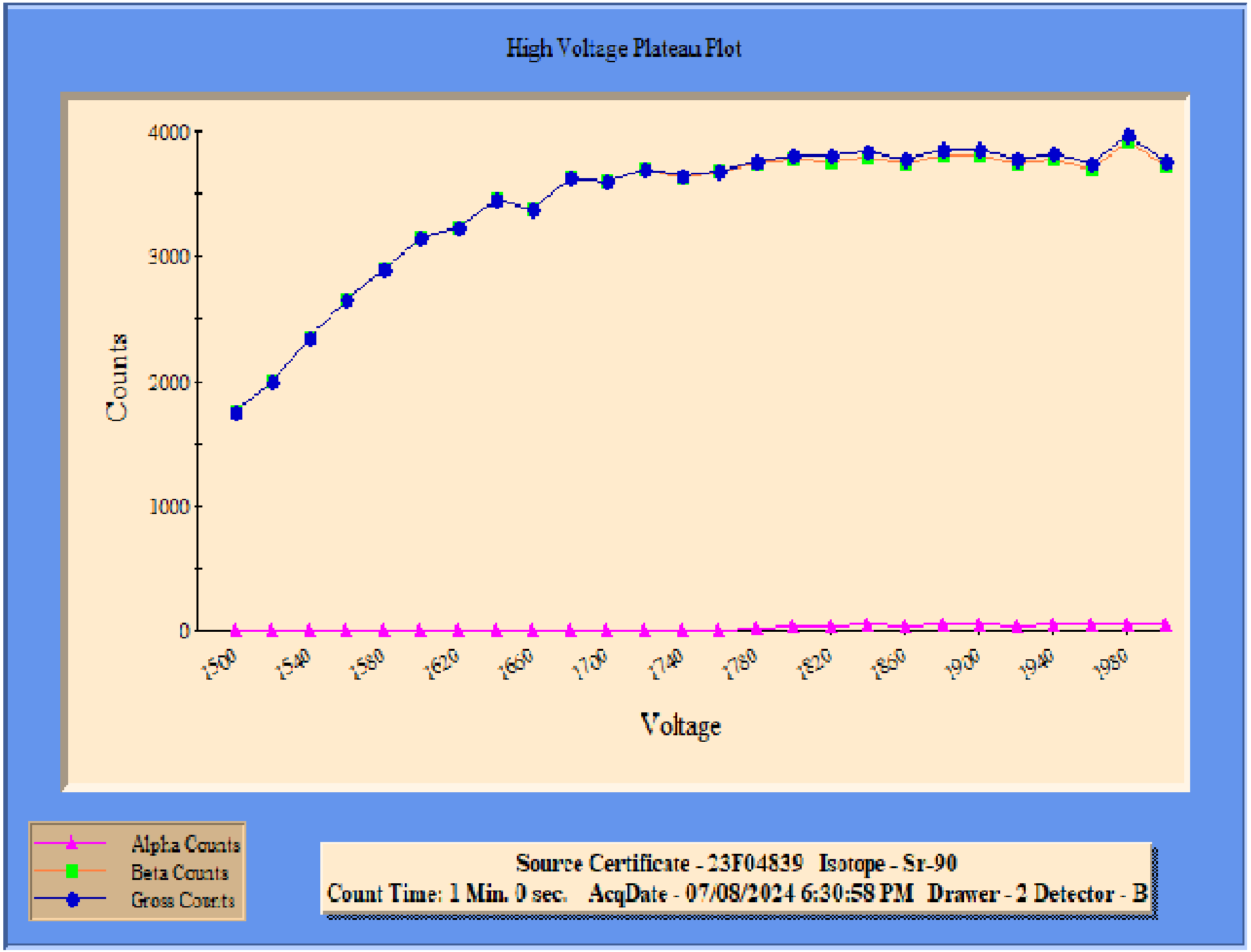
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 6:30:58 PM Drawer - 2 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 18:58
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2332	2331	1
1520	2596	2594	2
1540	2973	2971	2
1560	3164	3164	0
1580	3349	3348	1
1600	3462	3460	2
1620	3508	3506	2
1640	3512	3510	2
1660	3679	3676	3
1680	3705	3705	0
1700	3658	3652	6
1720	3793	3790	3
1740	3761	3742	19
1760	3860	3791	69
1780	3873	3768	105
1800	3819	3651	168
1820	3869	3654	215
1840	3828	3605	223
1860	3884	3687	197
1880	3898	3670	228
1900	3895	3726	169
1920	3793	3626	167
1940	3961	3756	205
1960	3814	3628	185
1980	3845	3638	207
2000	3847	3669	178

Special Notes:

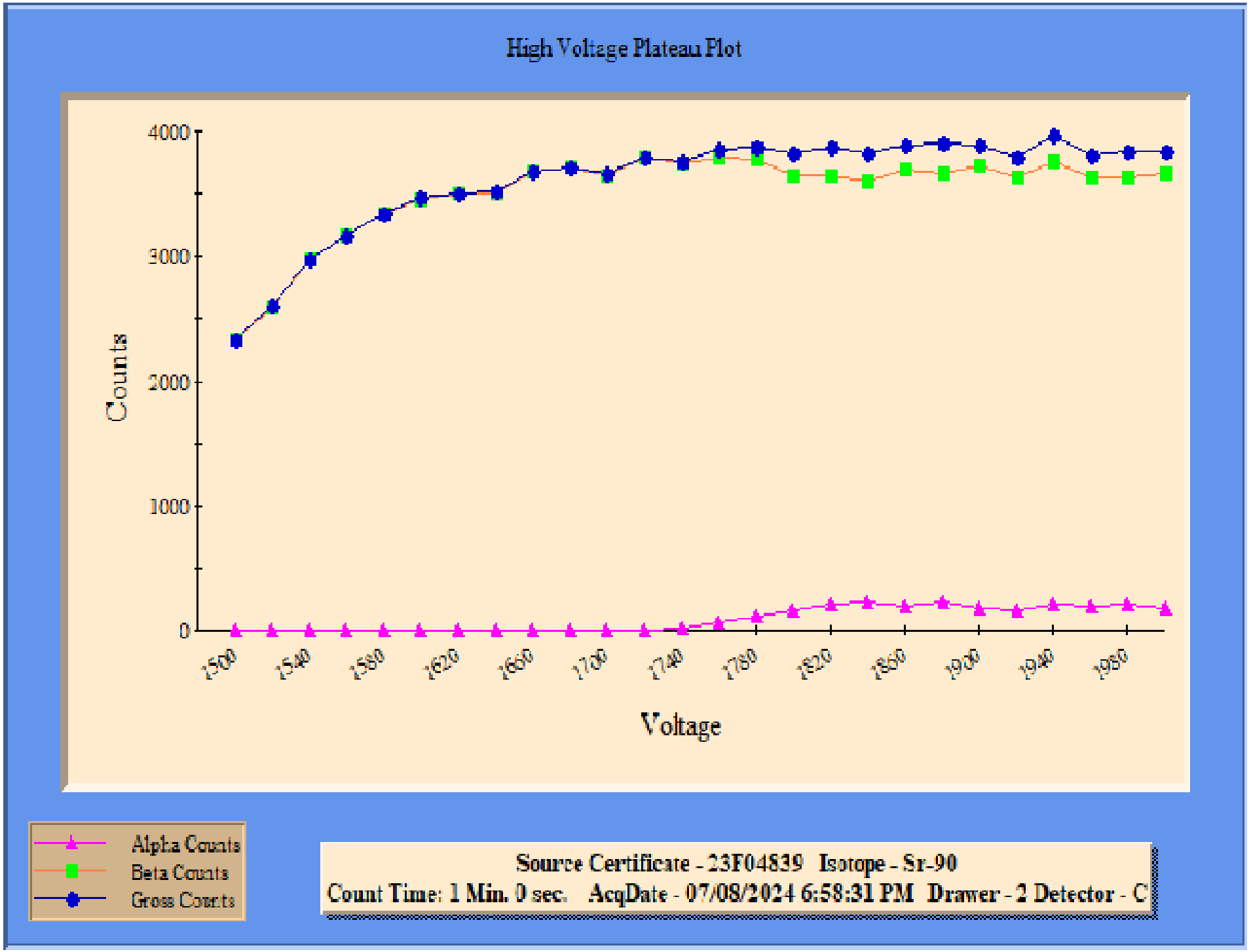
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 6:58:31 PM Drawer - 2 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 19:29
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1889	1889	0
1520	2196	2196	0
1540	2391	2390	1
1560	2690	2689	1
1580	2790	2789	1
1600	2991	2991	0
1620	3117	3114	3
1640	3140	3139	1
1660	3223	3221	2
1680	3376	3374	2
1700	3257	3255	2
1720	3346	3335	11
1740	3428	3410	18
1760	3405	3366	39
1780	3394	3301	93
1800	3539	3385	153
1820	3475	3296	179
1840	3395	3234	161
1860	3312	3133	178
1880	3457	3275	181
1900	3401	3236	165
1920	3484	3305	179
1940	3396	3202	193
1960	3585	3387	198
1980	3491	3319	172
2000	3391	3216	175

Special Notes:

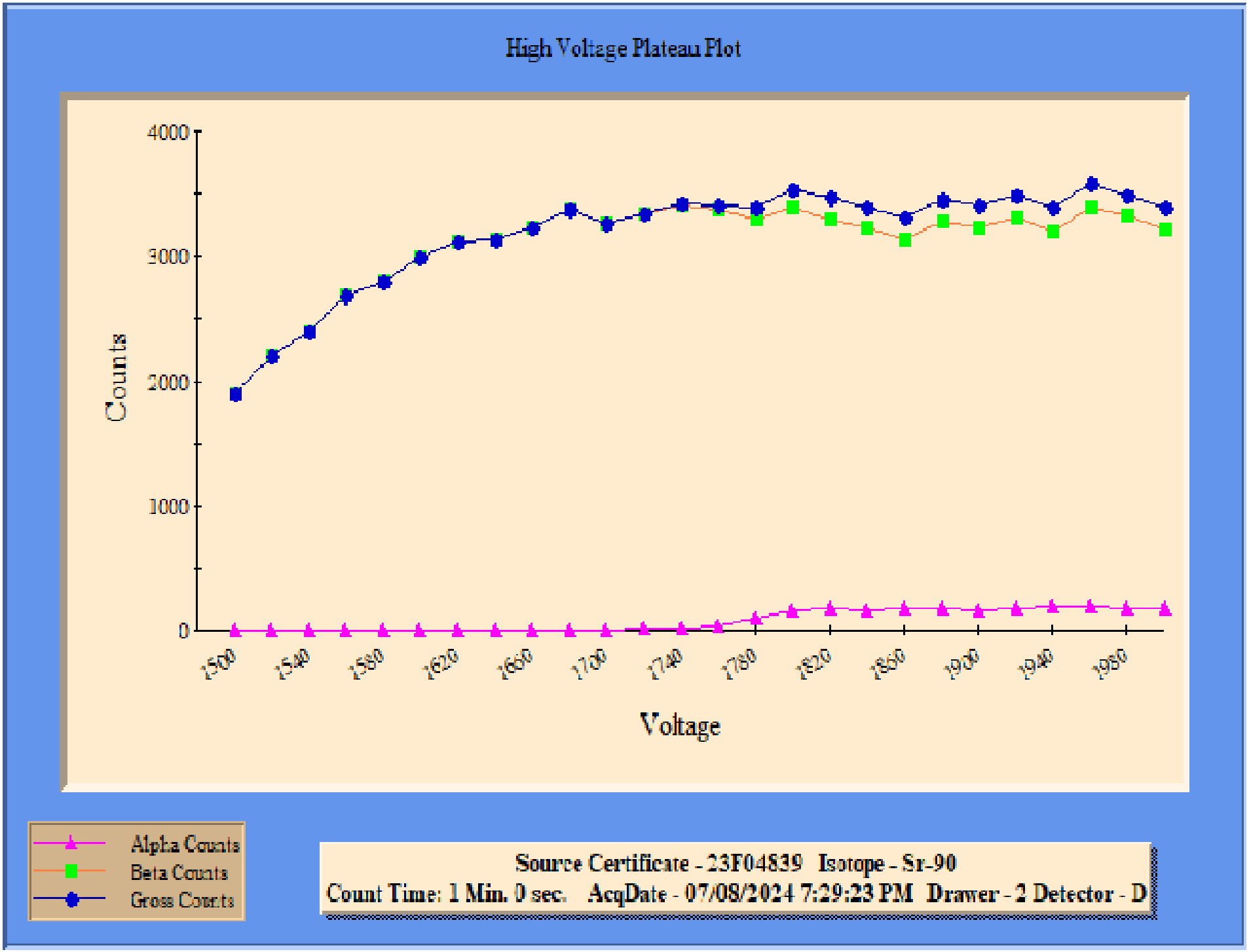
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 7:29:23 PM Drawer - 2 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 20:25
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	754	754	0
1520	952	952	0
1540	1206	1206	0
1560	1415	1414	1
1580	1643	1643	0
1600	1835	1835	0
1620	2197	2193	4
1640	2385	2385	0
1660	2566	2566	0
1680	2789	2787	2
1700	2837	2835	2
1720	2882	2881	1
1740	3144	3142	2
1760	3290	3286	4
1780	3183	3181	2
1800	3151	3146	5
1820	3295	3288	7
1840	3358	3344	14
1860	3185	3170	15
1880	3225	3214	11
1900	3241	3228	13
1920	3277	3266	11
1940	3384	3374	10
1960	3428	3419	9
1980	3319	3310	9
2000	3284	3276	8

Special Notes:

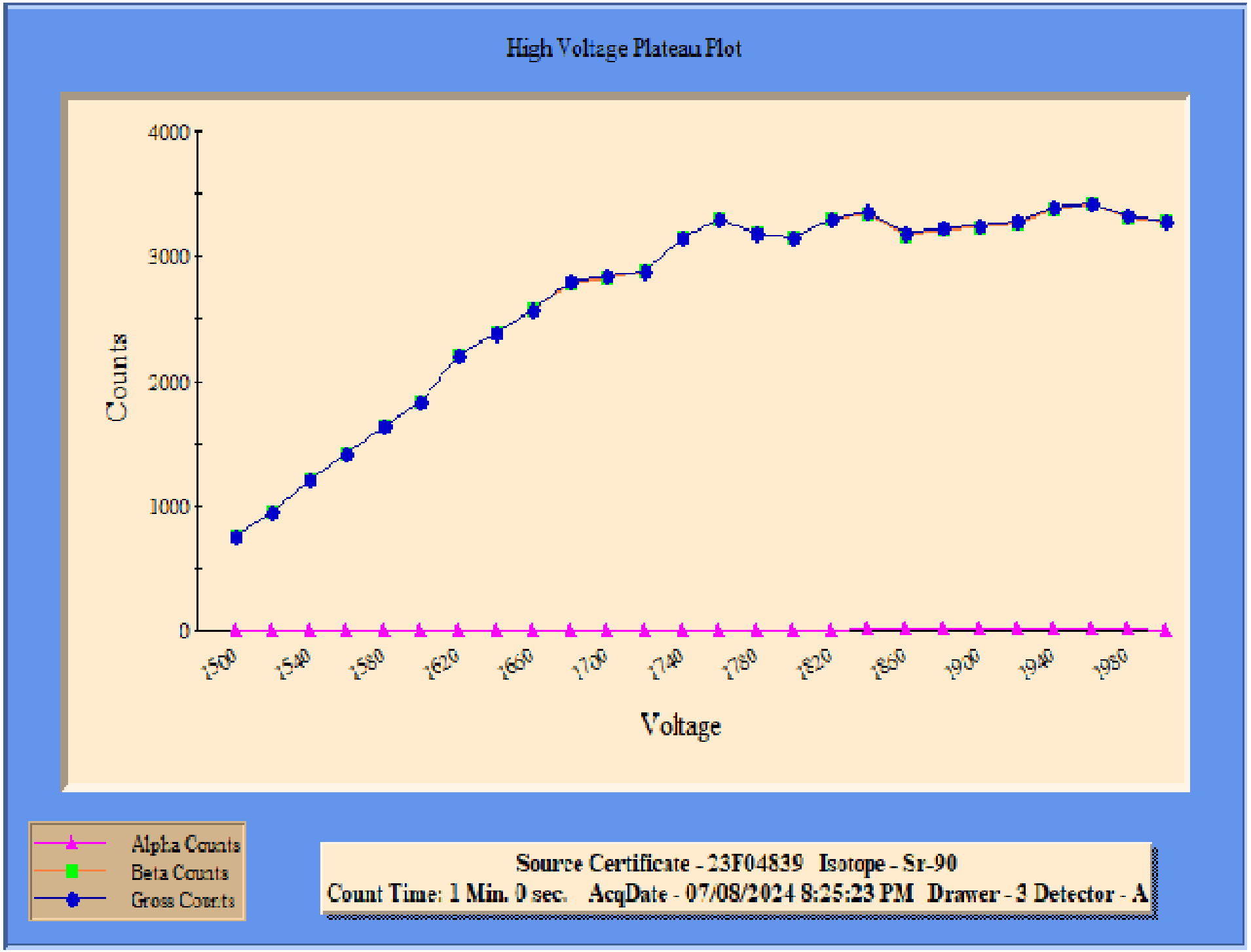
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 8:25:23 PM Drawer - 3 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 20:58
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1273	1273	0
1520	1519	1519	0
1540	1856	1856	0
1560	2167	2166	1
1580	2332	2330	2
1600	2527	2527	0
1620	2853	2852	1
1640	2981	2980	1
1660	3165	3162	3
1680	3302	3300	2
1700	3413	3411	2
1720	3431	3428	3
1740	3578	3573	5
1760	3579	3571	8
1780	3608	3579	29
1800	3679	3613	66
1820	3634	3563	71
1840	3677	3597	80
1860	3655	3581	74
1880	3551	3478	73
1900	3807	3728	79
1920	3630	3565	65
1940	3606	3549	57
1960	3631	3554	77
1980	3728	3664	64
2000	3811	3744	67

Special Notes:

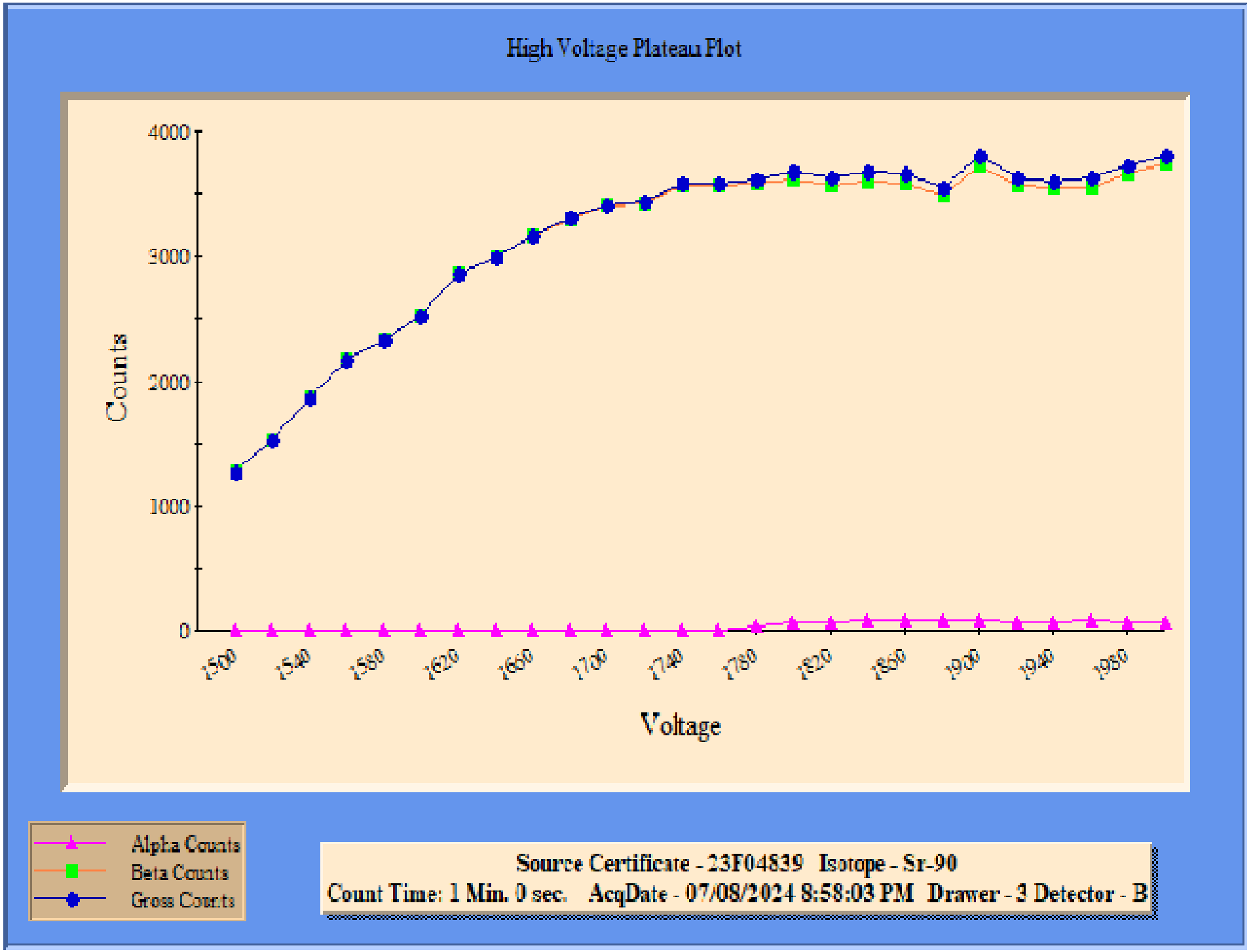
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 8:58:03 PM Drawer - 3 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 21:25
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1365	1363	2
1520	1608	1606	2
1540	1897	1896	1
1560	2182	2182	0
1580	2496	2495	1
1600	2604	2603	1
1620	2792	2789	3
1640	3135	3135	0
1660	3276	3274	2
1680	3434	3429	5
1700	3562	3559	3
1720	3460	3456	4
1740	3628	3620	8
1760	3625	3610	15
1780	3662	3635	27
1800	3680	3622	58
1820	3653	3563	90
1840	3607	3528	79
1860	3705	3611	94
1880	3646	3563	83
1900	3697	3626	71
1920	3713	3638	75
1940	3709	3620	89
1960	3681	3618	63
1980	3648	3569	79
2000	3649	3582	67

Special Notes:

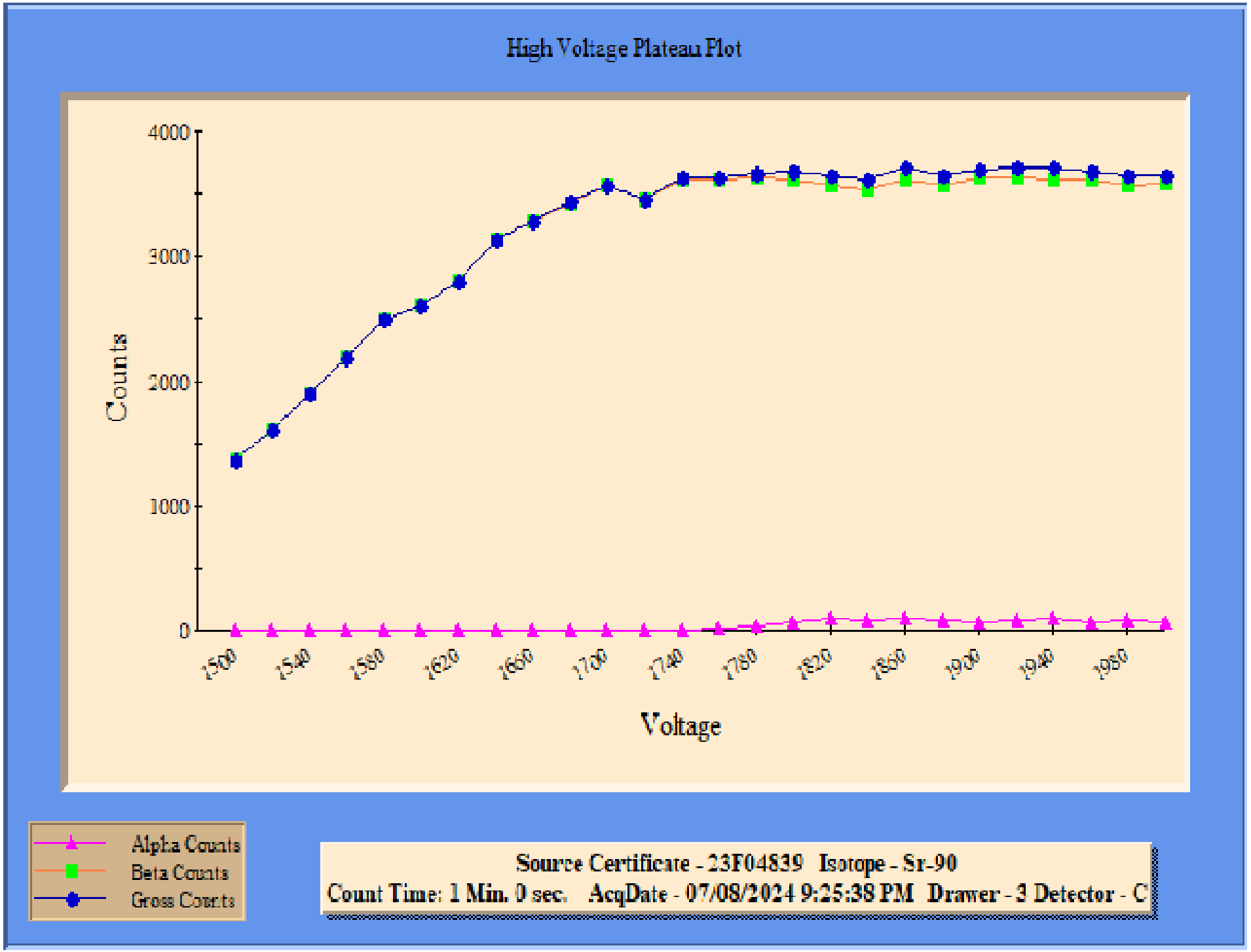
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 9:25:38 PM Drawer - 3 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 22:01
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1435	1435	0
1520	1685	1682	3
1540	1870	1870	0
1560	2204	2204	0
1580	2516	2515	1
1600	2767	2766	1
1620	2954	2953	1
1640	3097	3096	1
1660	3337	3334	3
1680	3411	3405	6
1700	3485	3483	2
1720	3548	3545	3
1740	3629	3625	4
1760	3562	3553	9
1780	3650	3607	43
1800	3660	3581	79
1820	3654	3541	113
1840	3673	3566	107
1860	3614	3507	107
1880	3810	3705	105
1900	3558	3473	85
1920	3709	3604	105
1940	3688	3584	104
1960	3693	3596	97
1980	3518	3425	93
2000	3671	3555	116

Special Notes:

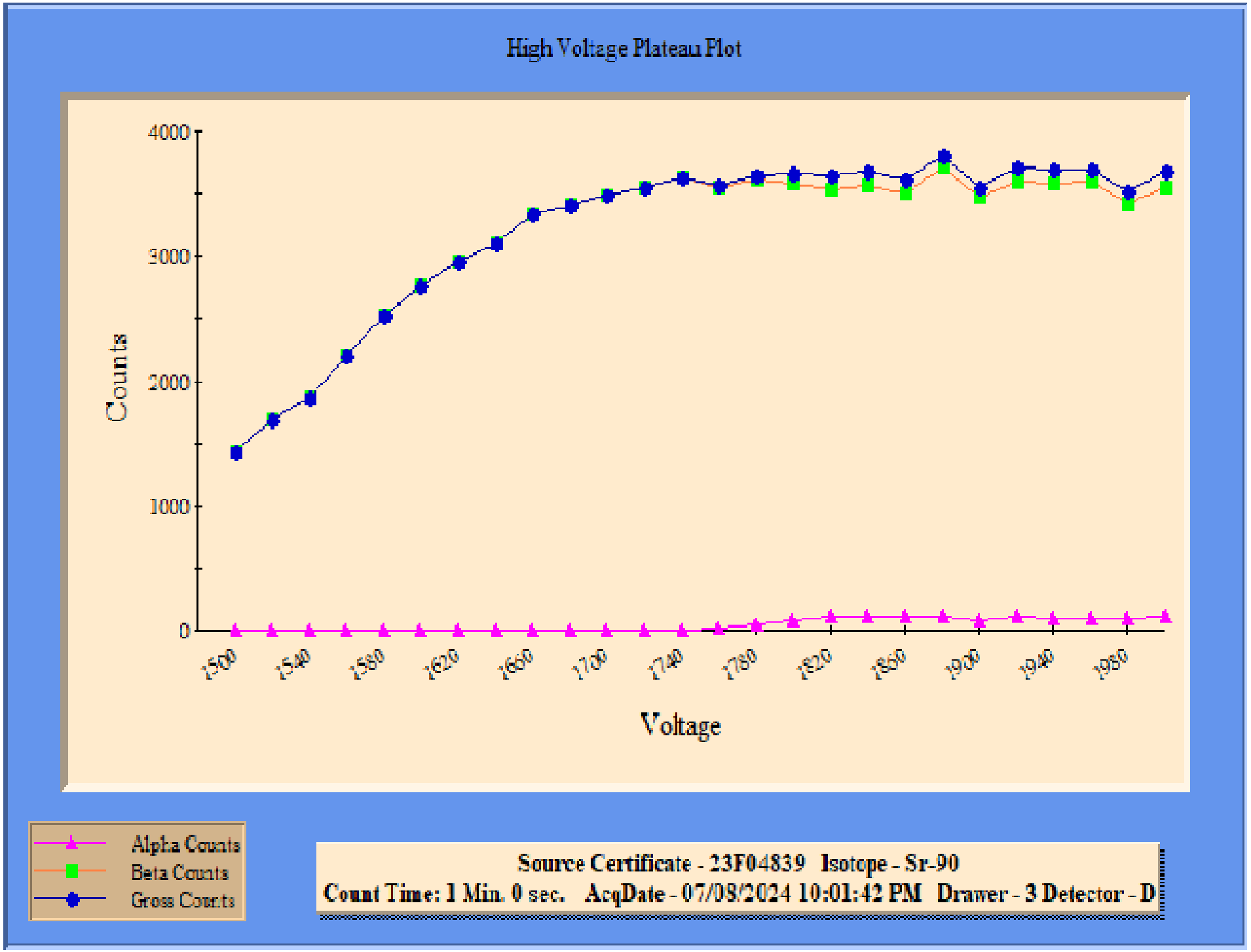
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 10:01:42 PM Drawer - 3 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 22:31
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1897	1896	1
1520	2136	2136	0
1540	2462	2460	2
1560	2698	2698	0
1580	2958	2958	0
1600	3107	3106	1
1620	3250	3247	3
1640	3353	3349	4
1660	3472	3471	1
1680	3517	3514	3
1700	3561	3559	2
1720	3496	3493	3
1740	3642	3629	13
1760	3789	3764	25
1780	3656	3578	78
1800	3735	3608	127
1820	3689	3529	160
1840	3656	3493	163
1860	3797	3623	174
1880	3792	3611	181
1900	3877	3715	162
1920	3765	3612	153
1940	3729	3556	173
1960	3800	3617	183
1980	3664	3489	175
2000	3808	3634	174

Special Notes:

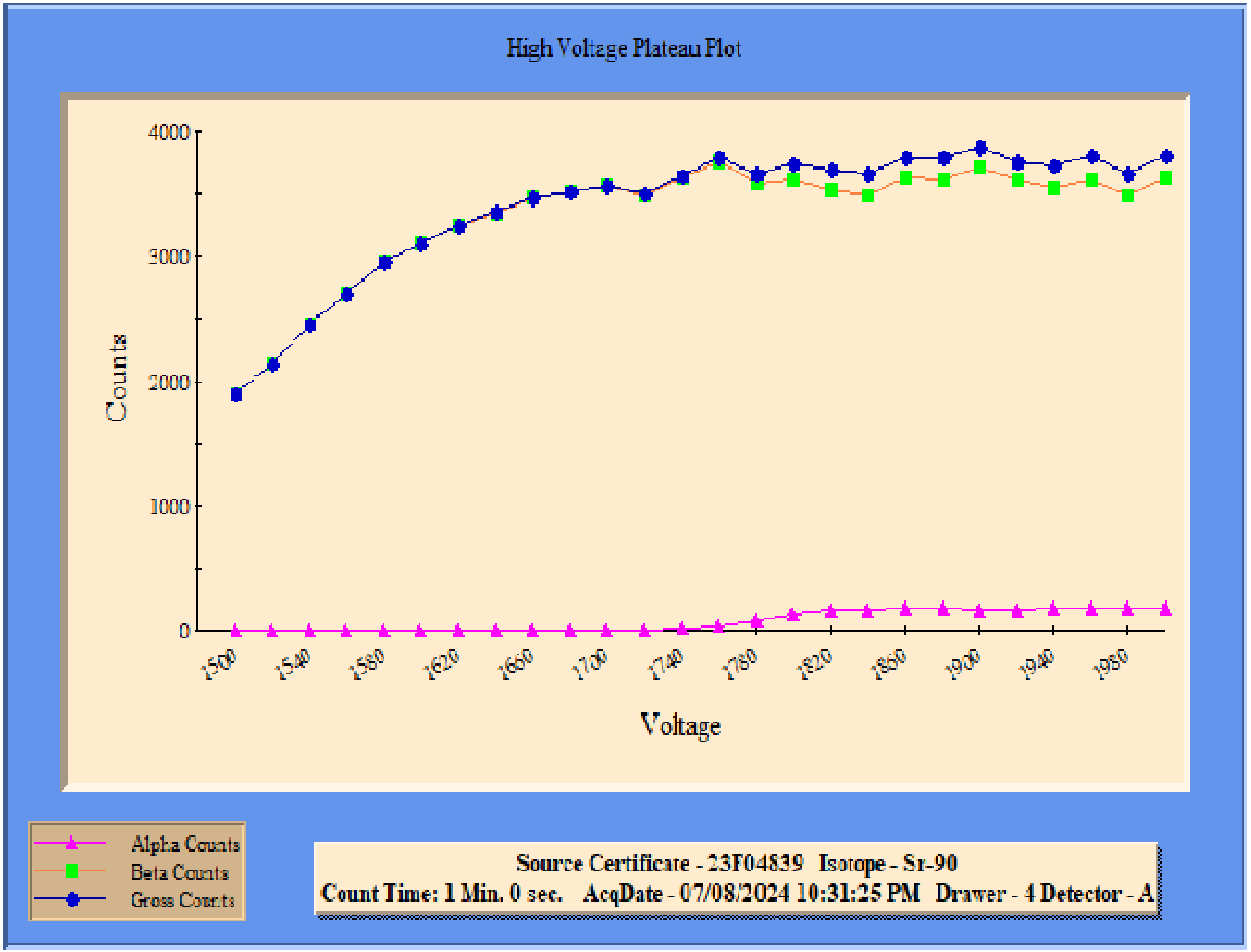
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 10:31:25 PM Drawer - 4 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 23:05
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2096	2095	1
1520	2391	2390	1
1540	2719	2717	2
1560	2989	2987	2
1580	3092	3090	2
1600	3234	3233	1
1620	3313	3312	1
1640	3557	3555	2
1660	3596	3595	1
1680	3634	3631	3
1700	3809	3806	3
1720	3630	3630	0
1740	3778	3772	6
1760	3724	3707	17
1780	3803	3770	33
1800	3818	3735	83
1820	3819	3733	86
1840	3696	3598	98
1860	3848	3776	72
1880	3788	3683	105
1900	3860	3780	80
1920	3799	3712	87
1940	3845	3770	75
1960	3773	3683	90
1980	3901	3812	89
2000	3842	3749	93

Special Notes:

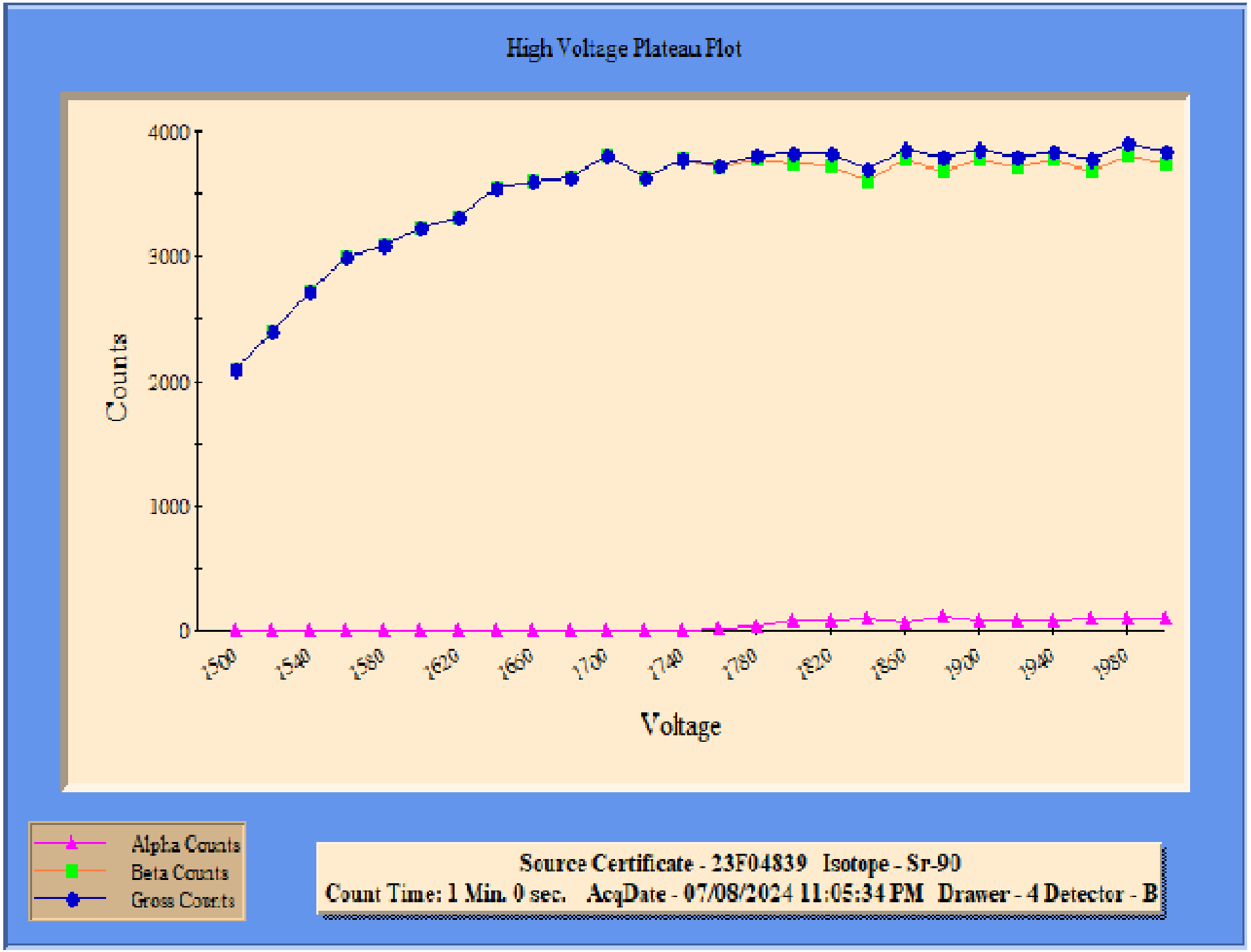
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 11:05:34 PM Drawer - 4 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 23:40
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1493	1492	1
1520	1702	1700	2
1540	1975	1975	0
1560	2257	2253	4
1580	2523	2523	0
1600	2755	2754	1
1620	3046	3044	2
1640	3158	3158	0
1660	3442	3441	1
1680	3476	3474	2
1700	3402	3401	1
1720	3574	3573	1
1740	3664	3663	1
1760	3563	3558	5
1780	3708	3706	2
1800	3735	3709	26
1820	3768	3726	42
1840	3818	3789	29
1860	3777	3746	31
1880	3822	3788	34
1900	3773	3749	24
1920	3713	3678	35
1940	3703	3672	31
1960	3722	3708	14
1980	3695	3664	31
2000	3706	3681	25

Special Notes:

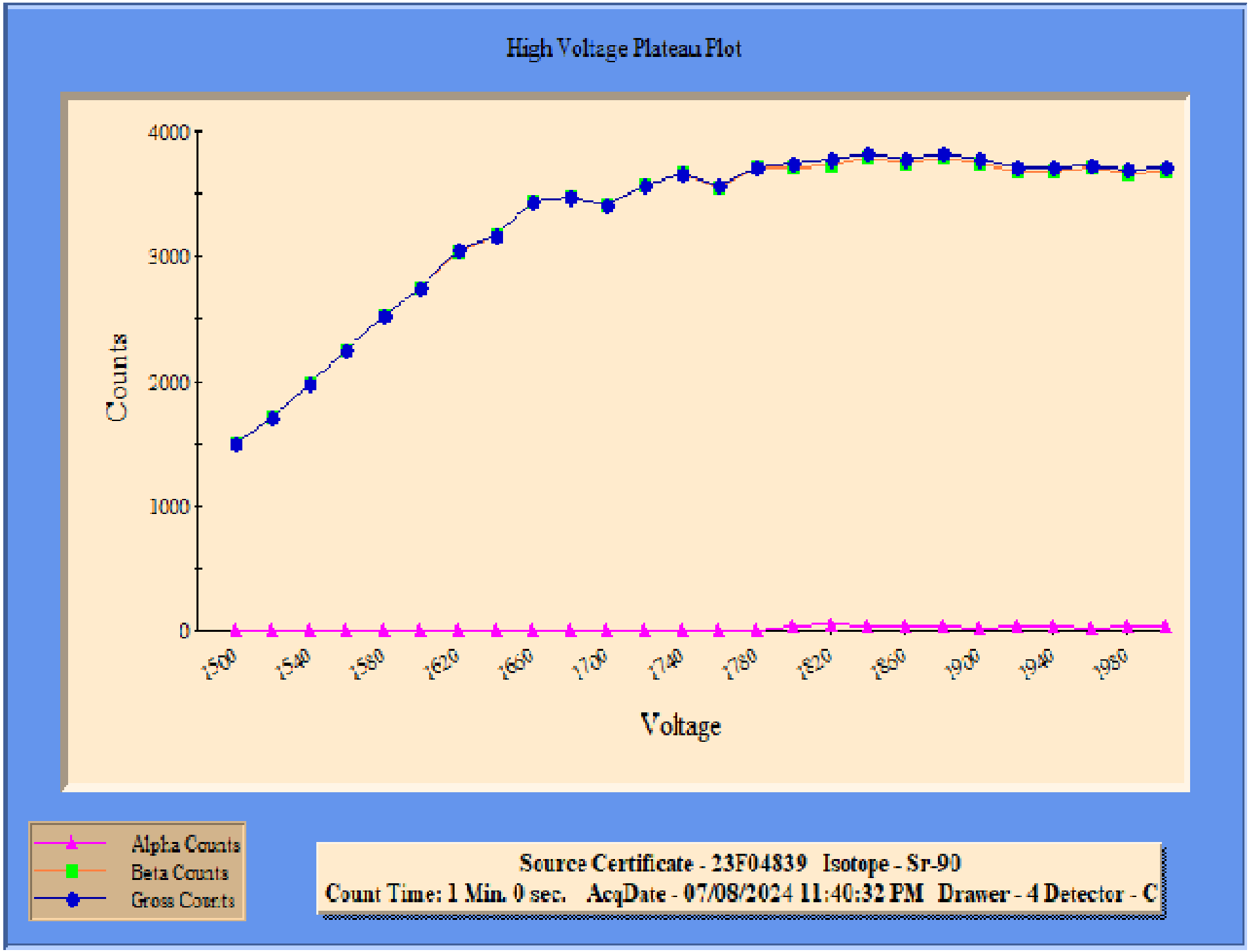
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 11:40:32 PM Drawer - 4 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/09/2024 00:10
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** D **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	582	582	0
1520	770	769	1
1540	936	935	1
1560	1205	1205	0
1580	1398	1396	2
1600	1576	1576	0
1620	1732	1732	0
1640	2073	2071	2
1660	2339	2338	1
1680	2576	2575	1
1700	2719	2718	1
1720	2868	2867	1
1740	3051	3048	3
1760	3223	3220	3
1780	3258	3253	5
1800	3307	3303	4
1820	3243	3240	3
1840	3348	3345	3
1860	3358	3355	3
1880	3310	3307	3
1900	3351	3346	5
1920	3311	3305	6
1940	3275	3268	7
1960	3268	3265	3
1980	3271	3269	2
2000	3396	3393	3

Special Notes:

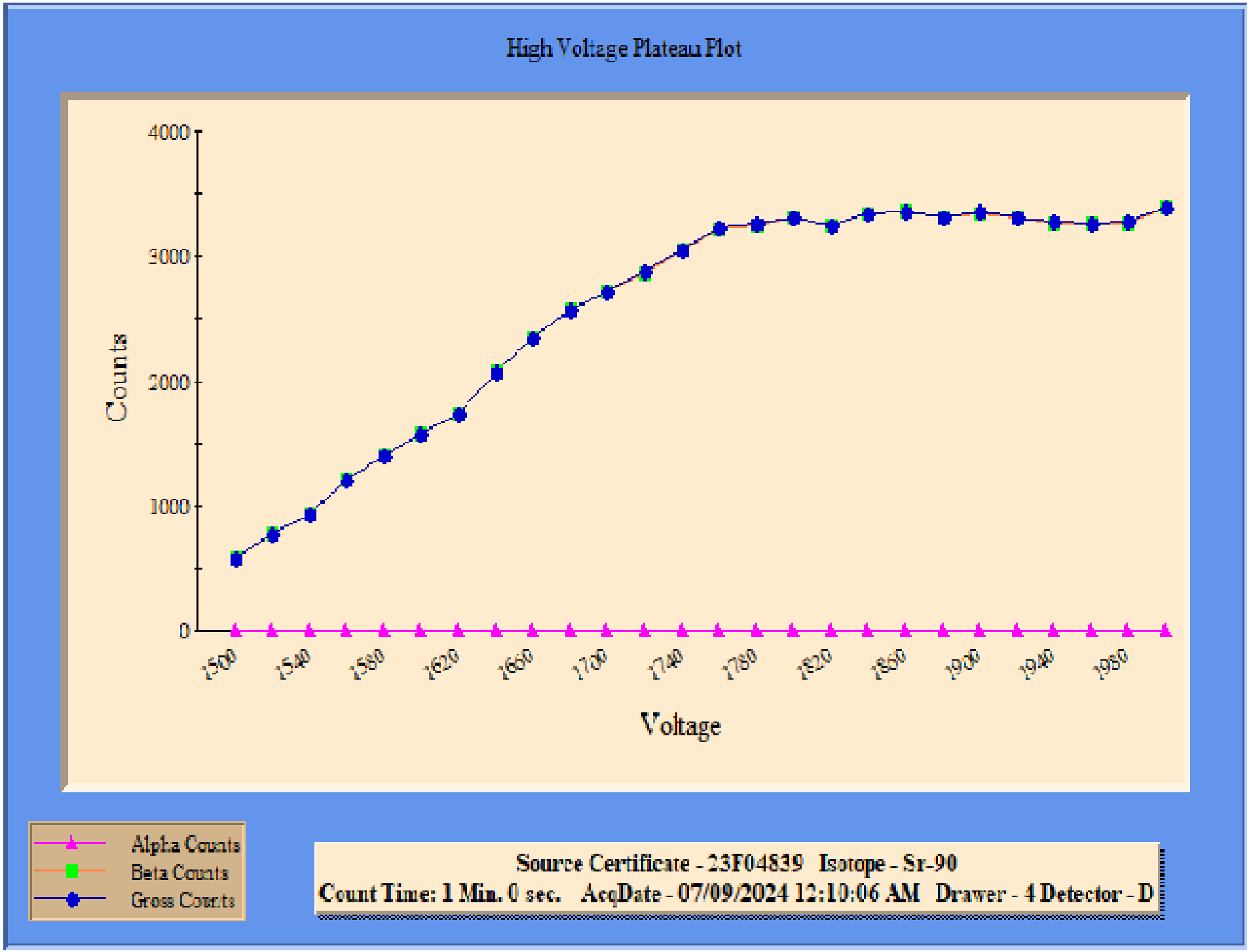
Report Generated: 07/09/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/09/2024 12:10:06 AM Drawer - 4 Detector - D

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: A
Voltage: 1760
Conf Level: 95.0 %

Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3671	10
2	3702	14
3	3738	20
4	3692	15
5	3776	19
6	3652	17
7	3653	12
8	3592	13
9	3685	19
10	3602	17
11	3750	17
12	3719	31
13	3680	23
14	3800	24
15	3683	20
16	3641	23
17	3757	21
18	3645	33
19	3611	25
20	3694	19

(Xbar) Mean:	3687.15	19.60
Calculated Chi-Sqr Value:	16.84	33.20

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: B
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3199	7
2	3296	10
3	3343	15
4	3428	15
5	3294	13
6	3306	12
7	3147	8
8	3260	17
9	3228	15
10	3348	22
11	3295	18
12	3337	21
13	3320	18
14	3269	15
15	3200	26
16	3195	10
17	3287	9
18	3232	11
19	3315	15
20	3190	15

(Xbar) Mean:	3274.45	14.60
Calculated Chi-Sqr Value:	27.14	31.01

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: C
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3462	1
2	3669	10
3	3607	18
4	3585	19
5	3647	22
6	3625	32
7	3623	25
8	3546	22
9	3528	22
10	3629	22
11	3499	17
12	3661	38
13	3652	21
14	3610	26
15	3616	34
16	3695	20
17	3730	26
18	3562	35
19	3540	34
20	3558	34

(Xbar) Mean:	3602.20	23.90
Calculated Chi-Sqr Value:	23.87	65.51

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3820	4
2	3737	7
3	3803	4
4	3756	5
5	3803	5
6	3812	5
7	3728	5
8	3730	4
9	3745	6
10	3692	6
11	3694	6
12	3787	4
13	3655	9
14	3764	4
15	3767	5
16	3644	6
17	3781	10
18	3700	8
19	3722	6
20	3668	5

(Xbar) Mean:	3740.40	5.70
Calculated Chi-Sqr Value:	14.23	9.51

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 16:53
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3537	1
2	3556	3
3	3589	6
4	3635	3
5	3698	1
6	3620	2
7	3628	5
8	3645	2
9	3581	0
10	3583	4
11	3588	2
12	3573	6
13	3693	1
14	3555	1
15	3626	4
16	3626	3
17	3600	4
18	3710	4
19	3568	3
20	3654	3

(Xbar) Mean:	3613.25	2.90
Calculated Chi-Sqr Value:	12.77	18.55

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: B
Voltage: 1760
Conf Level: 95.0 %

Test Date: 07/09/2024 16:53
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3732	3
2	3605	3
3	3689	0
4	3735	6
5	3785	3
6	3692	4
7	3812	1
8	3741	4
9	3708	4
10	3727	2
11	3740	1
12	3653	8
13	3637	3
14	3664	2
15	3773	3
16	3656	2
17	3726	1
18	3653	5
19	3760	7
20	3573	4

(Xbar) Mean:	3703.05	3.30
Calculated Chi-Sqr Value:	19.57	24.30

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL 2			**Test Date:**	07/09/2024 16:53
USER ID:	Meier			**System Serial #:**	062201
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	2	**Detector:**	C	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1760	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 1- 899	Chn 900 - 1023
1	3424	23
2	3463	50
3	3323	35
4	3400	36
5	3390	31
6	3385	26
7	3341	34
8	3403	44
9	3472	38
10	3487	27
11	3399	38
12	3343	38
13	3463	29
14	3404	29
15	3383	36
16	3423	31
17	3432	38
18	3338	34
19	3382	22
20	3373	32

(Xbar) Mean:	3401.40	33.55
Calculated Chi-Sqr Value:	12.05	26.08

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:53
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3780	24
2	3739	34
3	3646	31
4	3742	37
5	3598	32
6	3715	41
7	3594	43
8	3742	31
9	3759	34
10	3658	31
11	3767	40
12	3672	37
13	3662	29
14	3680	35
15	3782	27
16	3665	27
17	3616	39
18	3697	44
19	3693	30
20	3848	25

(Xbar) Mean:	3702.75	33.55
Calculated Chi-Sqr Value:	23.07	19.58

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1780
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3451	2
2	3421	3
3	3457	1
4	3528	1
5	3477	3
6	3495	3
7	3505	6
8	3453	3
9	3482	4
10	3511	6
11	3487	4
12	3462	2
13	3413	5
14	3458	5
15	3463	2
16	3501	3
17	3349	2
18	3423	5
19	3498	3
20	3464	3

(Xbar) Mean:	3464.90	3.30
Calculated Chi-Sqr Value:	9.30	12.79

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: B
Voltage: 1780
Conf Level: 95.0 %

Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3259	5
2	3286	7
3	3232	13
4	3270	12
5	3271	19
6	3277	22
7	3306	22
8	3287	12
9	3328	21
10	3313	13
11	3297	18
12	3263	14
13	3304	22
14	3279	16
15	3198	20
16	3273	28
17	3242	12
18	3219	28
19	3312	15
20	3245	24

(Xbar) Mean:	3273.05	17.15
Calculated Chi-Sqr Value:	6.56	44.35

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: C
Voltage: 1780
Conf Level: 95.0 %

Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3620	28
2	3580	22
3	3586	23
4	3676	31
5	3706	30
6	3670	34
7	3612	27
8	3563	13
9	3676	19
10	3619	21
11	3556	24
12	3581	23
13	3650	29
14	3788	25
15	3555	28
16	3598	36
17	3593	29
18	3539	24
19	3540	28
20	3563	21

(Xbar) Mean:	3613.55	25.75
Calculated Chi-Sqr Value:	21.53	21.19

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3 **Detector:** D
Counting Time: 1 min 0 sec **Voltage:** 1780
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3698	24
2	3648	19
3	3639	31
4	3719	19
5	3587	25
6	3612	33
7	3667	44
8	3667	26
9	3663	32
10	3550	36
11	3594	27
12	3661	35
13	3655	35
14	3713	29
15	3595	24
16	3623	37
17	3559	32
18	3624	30
19	3588	32
20	3547	37

(Xbar) Mean:	3630.45	30.35
Calculated Chi-Sqr Value:	13.81	25.19

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: A
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 17:46
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 900	Alpha ROI Counts Chn 900 - 1023
1	3337	21
2	3333	29
3	3373	21
4	3377	25
5	3381	27
6	3353	29
7	3376	22
8	3284	27
9	3382	33
10	3263	29
11	3280	23
12	3273	25
13	3381	21
14	3309	34
15	3360	24
16	3342	25
17	3415	28
18	3338	29
19	3303	26
20	3255	32

(Xbar) Mean:	3335.75	26.50
Calculated Chi-Sqr Value:	12.44	11.06

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL 2			**Test Date:**	07/09/2024 17:46
USER ID:	Meier			**System Serial #:**	062201
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	4	**Detector:**	B	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1760	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	**Chn 1- 900**	**Chn 900 - 1023**
1	3708	8
2	3751	7
3	3731	15
4	3620	8
5	3681	6
6	3781	6
7	3685	5
8	3638	4
9	3648	7
10	3604	14
11	3650	8
12	3691	8
13	3609	11
14	3796	5
15	3767	6
16	3623	7
17	3702	7
18	3564	8
19	3716	9
20	3524	11

(Xbar) Mean:	3674.45	8.00
Calculated Chi-Sqr Value:	27.24	19.25

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL 2			**Test Date:**	07/09/2024 17:46
USER ID:	Meier			**System Serial #:**	062201
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	4	**Detector:**	C	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1760	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 1- 900	Chn 900 - 1023
1	3637	2
2	3637	1
3	3609	2
4	3697	1
5	3731	2
6	3687	5
7	3626	7
8	3659	2
9	3693	3
10	3610	3
11	3716	2
12	3691	2
13	3720	3
14	3647	3
15	3665	7
16	3677	1
17	3726	5
18	3844	3
19	3679	3
20	3678	9

(Xbar) Mean:	3681.45	3.30
Calculated Chi-Sqr Value:	14.51	27.94

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 17:46
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 900	Alpha ROI Counts Chn 900 - 1023
1	3438	3
2	3330	3
3	3504	0
4	3600	1
5	3557	2
6	3494	2
7	3499	1
8	3508	1
9	3579	3
10	3596	3
11	3545	3
12	3516	3
13	3453	0
14	3456	3
15	3581	2
16	3532	0
17	3612	2
18	3556	4
19	3597	1
20	3566	1

(Xbar) Mean:	3525.95	1.90
Calculated Chi-Sqr Value:	25.97	14.63

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
U	Below Detectable Limits: Indicates that the analyte was not detected.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address: Haley & Aldrich-Phoenix, 400 E. Van Buren St #545, Phoenix, AZ 85004

Billing Information: Attn: Accounts Payable, 70 Blanchard Rd Suite 204, Burlington, MA 01803

Report to: Samantha Karney 602-760-2441

Email To: skarney@haleyaldrich.com

Project Description: ESI-Env. Sampling

City/State Collected: Missouri

Please Circle: PT MT (CT) ET

Phone:

Client Project #: 0213103-000

Lab Project #:

Collected by (print): S. Karney

Site/Facility ID #:

P.O. #:

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified): ___ Same Day X Five Day; ___ Next Day ___ 5 Day (Rad Only); ___ Two Day ___ 10 Day (Rad Only); ___ Three Day

Quote #:

Date Results Needed:

Pres Chk:

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # C1835187 E133

Acctnum:

Template:

Prelogin:

PM:

PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Hexavalent Chromium-M3500-Cr B	Total Mercury - EPA E245.1	Dissolved Mercury - EPA E245.1 Field Filtered #	Total 200.7 Metals	Dissolved 200.7 Metals Field Filtered #	Radium 226/228 EPA 903.1/904	Radium 226/228 Dissolved EPA 903.1/904 Field Filtered	Sulfate Anions - SW 9056A	Sulfate Anions-SW9056A Field Filtered Dissolved	Remarks	Sample # (lab only)
Montrose_Lake_S_SW	Grab	SW	-	3/11/25	1240	5	X	X		X		X		X			01
Montrose_Lake_S_SW_Filtered	Grab	SW	-	3/11/25	1240	5	X		X		X		X		X		02
Deepwater_S_SW	Grab	SW	-	3/11/25	1545	5	X	X		X		X		X		limited Sulfate	03
Deepwater_S_SW_filtered	Grab	SW	-	3/11/25	1610	5	X		X		X		X		X	limited Sulfate	04
Dup 3_SW	Grab	SW	-	3/11/25	1545	5	X	X		X		X		X		limited Sulfate	05
Truman_S_SW	Grab	SW	-	3/11/25	1734	5	X	X		X		X		X			06
Truman_S_SW_filtered	Grab	SW	-	3/11/25	1734	5	X		X		X		X		X		07

* Matrix: SS - Soil AIR - Air F - Filter; GW - Groundwater B - Bioassay; WW - WasteWater; DW - Drinking Water; OT - Other SW surface water

Remarks: (splits) no rush on rad ~~Dissolved filtered, please preserve at lab~~

pH ___ Temp ___

Flow ___ Other ___

Samples returned via: ___ UPS X FedEx ___ Courier ___

Tracking # multi

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	3/11/25	1745	FedEx		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: multi 35	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-12-25 Time: 0800	Hold: Condition: NCF / OK

Multiple Parcel Form L# L1835181

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
4359 9290 8213	~~0.5~~ CGA9	0.5	+0.4	= 0.9	Yes / No / Not Present
4359 9290 8224	CGA9	3.2	+0.4	= 3.6	Yes / No / Not Present
4359 9290 8207	CGA9	4.1	+0.4	= 4.5	Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

E. Dossett '17 / Eli Dossett
Name

3-12-25
Date

ANALYTICAL REPORT

March 27, 2025

Haley & Aldrich-Phoenix, AZ

Sample Delivery Group:	L1835192
Samples Received:	03/12/2025
Project Number:	0213103-000
Description:	ESI_ENV_Sampling

Report To: Samantha Kaney
400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Entire Report Reviewed By: Daphne R Richards

Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MS(R4186583-4) WG2468629 03/14/25 09:42 ICP14 24

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MONTROSE-LAKE-I-SW L1835192-01 WW

Collected by: S. Kaney | Collected date/time: 03/11/25 12:40 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 218.6	WG2467459	1	03/13/25 04:25	03/13/25 04:25	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9056	WG2468123	5	03/18/25 12:54	03/18/25 12:54	DLH	Mt. Juliet, TN
Mercury by Method 245.1	WG2467783	1	03/14/25 23:14	03/17/25 16:29	NDL	Mt. Juliet, TN
Mercury by Method 245.1	WG2467784	1	03/13/25 16:51	03/14/25 19:45	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2468629	1	03/13/25 17:02	03/14/25 09:53	MAP	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2470166	1	03/18/25 06:56	03/18/25 20:07	MAP	Mt. Juliet, TN

DEEPWATER-I-SW L1835192-02 WW

Collected by: S. Kaney | Collected date/time: 03/11/25 15:45 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 218.6	WG2467459	1	03/13/25 04:36	03/13/25 04:36	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9056	WG2468123	10	03/18/25 13:08	03/18/25 13:08	DLH	Mt. Juliet, TN
Mercury by Method 245.1	WG2467783	1	03/14/25 23:14	03/17/25 16:37	NDL	Mt. Juliet, TN
Mercury by Method 245.1	WG2467784	1	03/13/25 16:51	03/14/25 19:58	LAS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2468756	1	03/13/25 19:02	03/14/25 01:47	RLS	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2470166	1	03/18/25 06:56	03/18/25 20:10	MAP	Mt. Juliet, TN

TRUMAN-I-SW L1835192-03 WW

Collected by: S. Kaney | Collected date/time: 03/11/25 17:34 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 218.6	WG2467459	1	03/13/25 04:58	03/13/25 04:58	ANW	Mt. Juliet, TN
Wet Chemistry by Method 9056	WG2468123	10	03/18/25 13:21	03/18/25 13:21	DLH	Mt. Juliet, TN
Mercury by Method 245.1	WG2467783	1	03/14/25 23:14	03/17/25 16:39	NDL	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG2468629	1	03/13/25 17:02	03/14/25 09:56	MAP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Daphne Richards
Project Manager

Report Revision History

Level II Report - Version 1: 03/27/25 09:24

200.7 Metals (ICP)

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SW

Lab Sample ID:	L1835192-01	**SDG:**	L1835192
Client Sample ID:	MONTROSE-LAKE-I-SW	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250314095321	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 17:02
Analytical Batch:	WG2468629	**Analysis Date/Time:**	03/14/25 09:53
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	U		4.78	10.0
Barium	7440-39-3	77.8		0.675	5.00
Boron	7440-42-8	75.9	B J	28.5	200
Cadmium	7440-43-9	U		0.492	2.00
Chromium	7440-47-3	U		0.920	10.0
Cobalt	7440-48-4	1.39	J	1.02	10.0
Lead	7439-92-1	U		2.72	5.00
Lithium	7439-93-2	U		3.80	15.0
Selenium	7782-49-2	U		5.29	10.0
Silver	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SW

Lab Sample ID:	L1835192-01	**SDG:**	L1835192
Client Sample ID:	MONTROSE-LAKE-I-SW	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250318200714	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:56
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 20:07
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	U		4.78	10.0
Barium,Dissolved	7440-39-3	44.0		0.675	5.00
Boron,Dissolved	7440-42-8	U		28.5	200
Cadmium,Dissolved	7440-43-9	U		0.492	2.00
Chromium,Dissolved	7440-47-3	U		0.920	10.0
Cobalt,Dissolved	7440-48-4	U		1.02	10.0
Lead,Dissolved	7439-92-1	2.72	J	2.72	5.00
Lithium,Dissolved	7439-93-2	6.17	J	3.80	15.0
Selenium,Dissolved	7782-49-2	U		5.29	10.0
Silver,Dissolved	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DEEPWATER-I-SW

Lab Sample ID:	L1835192-02	**SDG:**	L1835192
Client Sample ID:	DEEPWATER-I-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	20250314014717	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 19:02
Analytical Batch:	WG2468756	**Analysis Date/Time:**	03/14/25 01:47
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	U		4.78	10.0
Barium	7440-39-3	85.3		0.675	5.00
Boron	7440-42-8	58.1	J	28.5	200
Cadmium	7440-43-9	1.27	J	0.492	2.00
Chromium	7440-47-3	U		0.920	10.0
Cobalt	7440-48-4	1.86	J	1.02	10.0
Lead	7439-92-1	U		2.72	5.00
Lithium	7439-93-2	6.91	J	3.80	15.0
Selenium	7782-49-2	6.60	J	5.29	10.0
Silver	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DEEPWATER-I-SW

Lab Sample ID:	L1835192-02	**SDG:**	L1835192
Client Sample ID:	DEEPWATER-I-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	20250318201000	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:56
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 20:10
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	U		4.78	10.0
Barium,Dissolved	7440-39-3	62.7		0.675	5.00
Boron,Dissolved	7440-42-8	38.2	J	28.5	200
Cadmium,Dissolved	7440-43-9	U		0.492	2.00
Chromium,Dissolved	7440-47-3	U		0.920	10.0
Cobalt,Dissolved	7440-48-4	1.03	J	1.02	10.0
Lead,Dissolved	7439-92-1	U		2.72	5.00
Lithium,Dissolved	7439-93-2	7.74	J	3.80	15.0
Selenium,Dissolved	7782-49-2	U		5.29	10.0
Silver,Dissolved	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835192-03	**SDG:**	L1835192
Client Sample ID:	TRUMAN-I-SW	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	20250314095606	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 17:02
Analytical Batch:	WG2468629	**Analysis Date/Time:**	03/14/25 09:56
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	U		4.78	10.0
Barium	7440-39-3	89.5		0.675	5.00
Boron	7440-42-8	32.1	B J	28.5	200
Cadmium	7440-43-9	U		0.492	2.00
Chromium	7440-47-3	1.24	J	0.920	10.0
Cobalt	7440-48-4	U		1.02	10.0
Lead	7439-92-1	U		2.72	5.00
Lithium	7439-93-2	U		3.80	15.0
Selenium	7782-49-2	U		5.29	10.0
Silver	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186366-1	**SDG:**	L1835192
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250314013030	**Received Date/Time:**	_____
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 19:02
Analytical Batch:	WG2468756	**Analysis Date/Time:**	03/14/25 01:30
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	U		4.78	10.0
Barium	7440-39-3	U		0.675	5.00
Boron	7440-42-8	U		28.5	200
Cadmium	7440-43-9	U		0.492	2.00
Chromium	7440-47-3	U		0.920	10.0
Cobalt	7440-48-4	U		1.02	10.0
Lead	7439-92-1	U		2.72	5.00
Lithium	7439-93-2	U		3.80	15.0
Selenium	7782-49-2	U		5.29	10.0
Silver	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186583-1	**SDG:**	L1835192
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20250314093150	**Received Date/Time:**	_____
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 17:02
Analytical Batch:	WG2468629	**Analysis Date/Time:**	03/14/25 09:31
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**MDL**	**RDL**
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	4.96	J	4.78	10.0
Barium	7440-39-3	U		0.675	5.00
Boron	7440-42-8	44.3	J	28.5	200
Cadmium	7440-43-9	U		0.492	2.00
Chromium	7440-47-3	U		0.920	10.0
Cobalt	7440-48-4	U		1.02	10.0
Lead	7439-92-1	U		2.72	5.00
Lithium	7439-93-2	U		3.80	15.0
Selenium	7782-49-2	U		5.29	10.0
Silver	7440-22-4	2.17	J	1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187947-1	**SDG:**	L1835192
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250318194535	**Received Date/Time:**	
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:55
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 19:45
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):		**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	U		4.78	10.0
Barium,Dissolved	7440-39-3	U		0.675	5.00
Boron,Dissolved	7440-42-8	U		28.5	200
Cadmium,Dissolved	7440-43-9	U		0.492	2.00
Chromium,Dissolved	7440-47-3	U		0.920	10.0
Cobalt,Dissolved	7440-48-4	U		1.02	10.0
Lead,Dissolved	7439-92-1	U		2.72	5.00
Lithium,Dissolved	7439-93-2	U		3.80	15.0
Selenium,Dissolved	7782-49-2	U		5.29	10.0
Silver,Dissolved	7440-22-4	U		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186366-2	**SDG:**	L1835192
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250314013313	**Received Date/Time:**	
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 19:02
Analytical Batch:	WG2468756	**Analysis Date/Time:**	03/14/25 01:33
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):		**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	1020		4.78	10.0
Barium	7440-39-3	1060		0.675	5.00
Boron	7440-42-8	957		28.5	200
Cadmium	7440-43-9	1010		0.492	2.00
Chromium	7440-47-3	1060		0.920	10.0
Cobalt	7440-48-4	981		1.02	10.0
Lead	7439-92-1	997		2.72	5.00
Lithium	7439-93-2	1040		3.80	15.0
Selenium	7782-49-2	1030		5.29	10.0
Silver	7440-22-4	202		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186583-2	**SDG:**	L1835192
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250314093422	**Received Date/Time:**	_____
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 17:02
Analytical Batch:	WG2468629	**Analysis Date/Time:**	03/14/25 09:34
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	1060		4.78	10.0
Barium	7440-39-3	1070		0.675	5.00
Boron	7440-42-8	1040		28.5	200
Cadmium	7440-43-9	1040		0.492	2.00
Chromium	7440-47-3	1070		0.920	10.0
Cobalt	7440-48-4	1000		1.02	10.0
Lead	7439-92-1	1020		2.72	5.00
Lithium	7439-93-2	1040		3.80	15.0
Selenium	7782-49-2	1050		5.29	10.0
Silver	7440-22-4	218		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187947-2	**SDG:**	L1835192
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250318194809	**Received Date/Time:**	_____
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:55
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 19:48
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	967		4.78	10.0
Barium,Dissolved	7440-39-3	944		0.675	5.00
Boron,Dissolved	7440-42-8	922		28.5	200
Cadmium,Dissolved	7440-43-9	967		0.492	2.00
Chromium,Dissolved	7440-47-3	967		0.920	10.0
Cobalt,Dissolved	7440-48-4	945		1.02	10.0
Lead,Dissolved	7439-92-1	1000		2.72	5.00
Lithium,Dissolved	7439-93-2	968		3.80	15.0
Selenium,Dissolved	7782-49-2	992		5.29	10.0
Silver,Dissolved	7440-22-4	179		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186366-4	**SDG:**	L1835192
Client Sample ID:	MS	**Collected Date/Time:**	03/13/25 08:00
Lab File ID:	20250314014144	**Received Date/Time:**	03/13/25 08:01
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 19:02
Analytical Batch:	WG2468756	**Analysis Date/Time:**	03/14/25 01:41
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	1040		4.78	10.0
Barium	7440-39-3	1070		0.675	5.00
Boron	7440-42-8	965		28.5	200
Cadmium	7440-43-9	1030		0.492	2.00
Chromium	7440-47-3	1070		0.920	10.0
Cobalt	7440-48-4	994		1.02	10.0
Lead	7439-92-1	1020		2.72	5.00
Lithium	7439-93-2	1050		3.80	15.0
Selenium	7782-49-2	1050		5.29	10.0
Silver	7440-22-4	204		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186583-4	**SDG:**	L1835192
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 08:40
Lab File ID:	20250314094232	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 17:02
Analytical Batch:	WG2468629	**Analysis Date/Time:**	03/14/25 09:42
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	1060		4.78	10.0
Barium	7440-39-3	1050		0.675	5.00
Boron	7440-42-8	1480		28.5	200
Cadmium	7440-43-9	1030		0.492	2.00
Chromium	7440-47-3	1070		0.920	10.0
Cobalt	7440-48-4	1010		1.02	10.0
Lead	7439-92-1	1010		2.72	5.00
Lithium	7439-93-2	1050		3.80	15.0
Selenium	7782-49-2	1060		5.29	10.0
Silver	7440-22-4	214		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187947-4	**SDG:**	L1835192
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250318195620	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:56
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 19:56
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	962		4.78	10.0
Barium,Dissolved	7440-39-3	960		0.675	5.00
Boron,Dissolved	7440-42-8	931		28.5	200
Cadmium,Dissolved	7440-43-9	956		0.492	2.00
Chromium,Dissolved	7440-47-3	947		0.920	10.0
Cobalt,Dissolved	7440-48-4	925		1.02	10.0
Lead,Dissolved	7439-92-1	990		2.72	5.00
Lithium,Dissolved	7439-93-2	953		3.80	15.0
Selenium,Dissolved	7782-49-2	983		5.29	10.0
Silver,Dissolved	7440-22-4	177		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186366-5	**SDG:**	L1835192
Client Sample ID:	MSD	**Collected Date/Time:**	03/13/25 08:00
Lab File ID:	20250314014424	**Received Date/Time:**	03/13/25 08:01
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 19:02
Analytical Batch:	WG2468756	**Analysis Date/Time:**	03/14/25 01:44
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	1050		4.78	10.0
Barium	7440-39-3	1070		0.675	5.00
Boron	7440-42-8	982		28.5	200
Cadmium	7440-43-9	1030		0.492	2.00
Chromium	7440-47-3	1070		0.920	10.0
Cobalt	7440-48-4	997		1.02	10.0
Lead	7439-92-1	1020		2.72	5.00
Lithium	7439-93-2	1060		3.80	15.0
Selenium	7782-49-2	1050		5.29	10.0
Silver	7440-22-4	205		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186583-5	**SDG:**	L1835192
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 08:40
Lab File ID:	20250314094505	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 17:02
Analytical Batch:	WG2468629	**Analysis Date/Time:**	03/14/25 09:45
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	1070		4.78	10.0
Barium	7440-39-3	1070		0.675	5.00
Boron	7440-42-8	1500		28.5	200
Cadmium	7440-43-9	1050		0.492	2.00
Chromium	7440-47-3	1080		0.920	10.0
Cobalt	7440-48-4	1020		1.02	10.0
Lead	7439-92-1	1020		2.72	5.00
Lithium	7439-93-2	1050		3.80	15.0
Selenium	7782-49-2	1070		5.29	10.0
Silver	7440-22-4	217		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187947-5	**SDG:**	L1835192
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250318195854	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:56
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 19:58
Dilution Factor:	1	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	958		4.78	10.0
Barium,Dissolved	7440-39-3	958		0.675	5.00
Boron,Dissolved	7440-42-8	944		28.5	200
Cadmium,Dissolved	7440-43-9	950		0.492	2.00
Chromium,Dissolved	7440-47-3	941		0.920	10.0
Cobalt,Dissolved	7440-48-4	919		1.02	10.0
Lead,Dissolved	7439-92-1	982		2.72	5.00
Lithium,Dissolved	7439-93-2	957		3.80	15.0
Selenium,Dissolved	7782-49-2	987		5.29	10.0
Silver,Dissolved	7440-22-4	176		1.34	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186366-3	**SDG:**	L1835192
Client Sample ID:	SD	**Collected Date/Time:**	03/13/25 08:00
Lab File ID:	20250314013904	**Received Date/Time:**	03/13/25 08:01
Instrument ID:	ICP13	**Preparation Date/Time:**	03/13/25 19:02
Analytical Batch:	WG2468756	**Analysis Date/Time:**	03/14/25 01:39
Dilution Factor:	5	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	U		23.9	50.0
Barium	7440-39-3	U		3.38	25.0
Boron	7440-42-8	U		143	1000
Cadmium	7440-43-9	U		2.46	10.0
Chromium	7440-47-3	U		4.60	50.0
Cobalt	7440-48-4	U		5.10	50.0
Lead	7439-92-1	U		13.6	25.0
Lithium	7439-93-2	U		19.0	75.0
Selenium	7782-49-2	U		26.5	50.0
Silver	7440-22-4	U		6.70	25.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186583-3	**SDG:**	L1835192
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 08:40
Lab File ID:	20250314094001	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/13/25 17:02
Analytical Batch:	WG2468629	**Analysis Date/Time:**	03/14/25 09:40
Dilution Factor:	5	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic	7440-38-2	U		23.9	50.0
Barium	7440-39-3	U		3.38	25.0
Boron	7440-42-8	492	J	143	1000
Cadmium	7440-43-9	U		2.46	10.0
Chromium	7440-47-3	U		4.60	50.0
Cobalt	7440-48-4	U		5.10	50.0
Lead	7439-92-1	U		13.6	25.0
Lithium	7439-93-2	U		19.0	75.0
Selenium	7782-49-2	U		26.5	50.0
Silver	7440-22-4	U		6.70	25.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187947-3	**SDG:**	L1835192
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250318195346	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	ICP14	**Preparation Date/Time:**	03/18/25 06:56
Analytical Batch:	WG2470166	**Analysis Date/Time:**	03/18/25 19:53
Dilution Factor:	5	**Prep Method:**	200.7
Analytical Method:	200.7	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Arsenic,Dissolved	7440-38-2	U		23.9	50.0
Barium,Dissolved	7440-39-3	41.4		3.38	25.0
Boron,Dissolved	7440-42-8	U		143	1000
Cadmium,Dissolved	7440-43-9	U		2.46	10.0
Chromium,Dissolved	7440-47-3	U		4.60	50.0
Cobalt,Dissolved	7440-48-4	U		5.10	50.0
Lead,Dissolved	7439-92-1	U		13.6	25.0
Lithium,Dissolved	7439-93-2	U		19.0	75.0
Selenium,Dissolved	7782-49-2	U		26.5	50.0
Silver,Dissolved	7440-22-4	U		6.70	25.0

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A
Concentration Units:	mg/l		

		ICV				**ICVLL**				**CCV**		
Sample ID:		ICP130313250817-3				ICP130313250842-3				ICP130314250102-2		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9827878	98.30	0.673000	0.01	0.01112877	111	32.000000	1	0.9895986	99	0.942000
BARIUM	1	1.043796	104	0.583000	0.0050	0.005441027	109	4.480000	0.50	0.5116688	102	0.412000
BORON	1	0.9990383	99.90	0.912000	0.20	0.2016307	101	3.070000	1	0.9555303	95.60	0.215000
CADMIUM	1	0.9730315	97.30	0.481000	0.0020	0.002087075	104	7.020000	0.50	0.4922688	98.50	0.142000
CHROMIUM	1	1.048729	105	0.244000	0.01	0.01079324	108	3.180000	1	1.030764	103	0.388000
COBALT	1	0.9704889	97	0.572000	0.01	0.009553317	95.50	2.690000	1	0.9745266	97.50	0.183000
LEAD	1	0.9793258	97.90	0.839000	0.0050	0.005777003	116	46.400000	0.50	0.4860573	97.20	0.390000
LITHIUM	1	1.010306	101	0.353000	0.0150	0.01428389	95.20	5.280000	1	1.012966	101	0.244000
SELENIUM	1	0.9614637	96.10	0.428000	0.01	0.009063138	90.60	48.500000	1	0.9861391	98.60	0.824000
SILVER	1	0.9873888	98.70	0.639000	0.0050	0.005369757	107	8.890000	0.50	0.5175629	104	0.516000

ICV Limits: 95 - 105 ICVLL Limits: 50 - 150 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A
Concentration Units:	mg/l		

CCV

Sample ID: ICP130314250158

Analyte	True	Found	%R	%RSD
ARSENIC	1	0.9937566	99.40	0.660000
BARIUM	0.50	0.5121634	102	0.211000
BORON	1	0.9545698	95.50	1.170000
CADMIUM	0.50	0.4928861	98.60	0.094100
CHROMIUM	1	1.027679	103	0.177000
COBALT	1	0.9717979	97.20	0.193000
LEAD	0.50	0.4838601	96.80	0.484000
LITHIUM	1	1.002279	100	0.102000
SELENIUM	1	0.9914551	99.10	1.440000
SILVER	0.50	0.516886	103	0.182000

ICV Limits: 95 - 105 ICVLL Limits: 50 - 150 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 07:12
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/14/25 07:27
Analytical Method:	200.7	**Analytical Run:**	031425ICP14
Concentration Units:	mg/l		

		ICV				**CCV**				**ICVLL**		
Sample ID:		ICP140314250731				ICP140314250805				ICP140314250811		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9949978	99.50	0.289000	1	1.024906	102	0.264000	0.01	0.0105263	105	31.700000
BARIUM	1	1.027937	103	0.604000	0.50	0.5289646	106	0.141000	0.0050	0.005097808	102	3.280000
BORON	1	1.028717	103	0.731000	1	0.9806988	98.10	2.390000	0.20	0.2309567	115	17.600000
CADMIUM	1	0.97468	97.50	0.637000	0.50	0.5115135	102	0.238000	0.0020	0.00186342	93.20	5.280000
CHROMIUM	1	1.021512	102	0.242000	1	1.062356	106	0.310000	0.01	0.01056012	106	7.370000
COBALT	1	0.961501	96.20	0.910000	1	1.013091	101	0.277000	0.01	0.009848732	98.50	4.900000
LEAD	1	0.9640951	96.40	0.928000	0.50	0.4980582	99.60	0.592000	0.0050	0.005397083	108	11.600000
LITHIUM	1	1.004954	100	0.381000	1	1.025273	103	0.469000	0.0150	0.01427892	95.20	25.100000
SELENIUM	1	0.9511719	95.10	0.890000	1	1.013232	101	1.500000	0.01	0.008766466	87.70	35.300000
SILVER	1	0.9812812	98.10	0.235000	0.50	0.535239	107	0.303000	0.0050	0.005365178	107	17.400000

ICV Limits: 95 - 105 CCV Limits: 90 - 110 ICVLL Limits: 50 - 150 CCVLL Limits: 50 - 150

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 07:12
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/14/25 07:27
Analytical Method:	200.7	**Analytical Run:**	031425ICP14
Concentration Units:	mg/l		

		CCV				**CCVLL**		
Sample ID:		ICP140314250958				ICP140314251423		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	1.033759	103	0.842000	0.01	0.01124814	112	27.700000
BARIUM	0.50	0.5404283	108	0.653000	0.0050	0.005435522	109	1.040000
BORON	1	1.049122	105	3.410000	0.20	0.2195882	110	3.910000
CADMIUM	0.50	0.5156635	103	0.334000	0.0020	0.001939854	97	6.740000
CHROMIUM	1	1.038734	104	0.515000	0.01	0.01017458	102	4.010000
COBALT	1	1.002781	100	0.200000	0.01	0.009849148	98.50	4.260000
LEAD	0.50	0.5065553	101	0.758000	0.0050	0.005393289	108	5.450000
LITHIUM	1	1.031342	103	0.677000	0.0150	0.01370918	91.40	14.700000
SELENIUM	1	1.026263	103	0.466000	0.01	0.01225755	123	62.400000
SILVER	0.50	0.5387069	108	0.033900	0.0050	0.005643212	113	16.200000

ICV Limits: 95 - 105 CCV Limits: 90 - 110 ICVLL Limits: 50 - 150 CCVLL Limits: 50 - 150

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14
Concentration Units:	mg/l		

		ICV				**ICVLL**				**CCVLL**		
Sample ID:		ICP140318250625-3				ICP140318250652-3				ICP140318251433-3		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9905778	99.10	1.390000	0.01	0.008028562	80.30	28.800000	0.01	0.008522802	85.20	37.400000
BARIUM	1	1.027319	103	1.080000	0.0050	0.00551346	110	4.310000	0.0050	0.005355395	107	4.060000
BORON	1	0.9782618	97.80	1.660000	0.20	0.1892192	94.60	5.330000	0.20	0.2014119	101	11.800000
CADMIUM	1	0.9744235	97.40	0.999000	0.0020	0.002010356	101	2.190000	0.0020	0.002172564	109	6.380000
CHROMIUM	1	1.023149	102	0.882000	0.01	0.0103624	104	2.250000	0.01	0.01012543	101	4.220000
COBALT	1	0.9599789	96	1.090000	0.01	0.009687404	96.90	2.190000	0.01	0.00931551	93.20	2.270000
LEAD	1	0.968669	96.90	0.965000	0.0050	0.005872914	117	50.900000	0.0050	0.005999643	120	24.400000
LITHIUM	1	1.004939	100	0.114000	0.0150	0.01271051	84.70	32.500000	0.0150	0.01646071	110	6.980000
SELENIUM	1	0.9576137	95.80	1.120000	0.01	0.01108857	111	27.000000	0.01	0.01074362	107	26.400000
SILVER	1	0.9772059	97.70	0.866000	0.0050	0.005661439	113	1.400000	0.0050	0.005002745	100	5.930000

ICV Limits: 95 - 105 ICVLL Limits: 50 - 150 CCVLL Limits: 50 - 150 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14
Concentration Units:	mg/l		

		CCV				**CCV**		
Sample ID:		ICP140318251809-2				ICP140318252012		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9362553	93.60	1.090000	1	0.9469525	94.70	0.897000
BARIUM	0.50	0.4767743	95.40	0.570000	0.50	0.4776204	95.50	0.146000
BORON	1	0.9640623	96.40	1.690000	1	0.9515569	95.20	1.620000
CADMIUM	0.50	0.4923555	98.50	0.376000	0.50	0.4922195	98.40	1.930000
CHROMIUM	1	0.9608682	96.10	0.187000	1	0.9660792	96.60	0.292000
COBALT	1	0.9374877	93.70	0.836000	1	0.9498552	95	1.010000
LEAD	0.50	0.4918638	98.40	0.843000	0.50	0.4995272	99.90	0.814000
LITHIUM	1	0.95592	95.60	0.292000	1	0.9622174	96.20	0.864000
SELENIUM	1	0.9476121	94.80	0.510000	1	0.9673921	96.70	0.569000
SILVER	0.50	0.4867387	97.30	0.294000	0.50	0.4888939	97.80	0.038600

ICV Limits: 95 - 105 ICVLL Limits: 50 - 150 CCVLL Limits: 50 - 150 CCV Limits: 90 - 110

SDG:	L1835192	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250313083414-3		20250314010522-2		20250314013030		20250314020141	
Analyte	mg/l		mg/l		mg/l		mg/l	
ARSENIC	0.0008989357	U	0.002727514	U	U		0.003426882	U
BARIUM	-0.0002320136	U	0.0006551792	U	U		0.0009223771	U
BORON	-0.008037301	U	-0.005520371	U	U		-0.000912491	U
CADMIUM	0.00009738354	U	0.0007309511	U	U		0.0008641249	U
CHROMIUM	-0.00004709599	U	0.00008946796	U	U		0.000486376	U
COBALT	0.000001996109	U	0.001514845	U	U		0.001953012	U
LEAD	0.0007511455	U	0.001491912	U	U		0.001407639	U
LITHIUM	-0.001407685	U	0.001057583	U	U		0.0004790042	U
SELENIUM	0.003421926	U	-0.003001863	U	U		-0.003119043	U
SILVER	-0.0005324745	U	-0.0001708179	U	U		-0.0005790718	U

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 07:12
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/14/25 07:27
Analytical Method:	200.7	**Analytical Run:**	031425ICP14

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250314080248		20250314080813		20250314093150		20250314100132	
Analyte	mg/l		mg/l		mg/l		mg/l	
ARSENIC	-0.001665495	U	-0.001250686	U	0.00496	J	0.00198733	U
BARIUM	-0.000115664	U	-0.0000221993	U	U		-0.000393449	U
BORON	0.02904754	U	0.02670684	U	0.0443	J	0.01671262	U
CADMIUM	-0.0001640167	U	0.00003951289	U	U		0.00005601016	U
CHROMIUM	-0.00002045434	U	0.0001388319	U	U		0.0002060311	U
COBALT	-0.00001217277	U	-0.00001796594	U	U		-0.00001298307	U
LEAD	0.000269972	U	-0.0009829266	U	U		-0.0004411536	U
LITHIUM	-0.004997585	U	-0.001169364	U	U		-0.001988772	U
SELENIUM	0.004828165	U	0.003120208	U	U		-0.002794916	U
SILVER	-0.000105048	U	0.0002025116	U	0.00217	J	-0.0003978394	U

SDG:	L1835192	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**
File ID:	20250318064440-3		20250318181206-2		20250318201529		20250318194535	
Analyte	mg/l		mg/l		mg/l		mg/l	
ARSENIC	-0.00104195	U	-0.002874699	U	-0.002580347	U	U	
BARIUM	0.0002106235	U	0.00007081802	U	0.0001820273	U	U	
BORON	0.001792931	U	-0.006265681	U	-0.01686257	U	U	
CADMIUM	0.0001462521	U	0.0002482424	U	0.0001868018	U	U	
CHROMIUM	-0.00002986255	U	0.0000163789	U	0.000232896	U	U	
COBALT	0.0001440	U	-0.0004267851	U	-0.0001006587	U	U	
LEAD	0.0005520315	U	0.002010999	U	0.0005321112	U	U	
LITHIUM	-0.000416982	U	0.001702856	U	0.000228307	U	U	
SELENIUM	0.005243157	U	0.003561035	U	-0.003558322	U	U	
SILVER	-0.00007815256	U	-0.0001180067	U	-0.0000594399	U	U	

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP13	**Date:**	03/13/25 08:45
Instrument Run:	031325ICP13A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	508.5792	102	500	516.604	103
ANTIMONY	0	-0.004712001		0.50	0.4984244	99.70
ARSENIC	0	-0.005792129		0.50	0.5037884	101
BARIUM	0	0.002101114		0.50	0.513467	103
BERYLLIUM	0	-0.0001429453		0.50	0.5049913	101
BORON	0	-0.02507207		1	0.9866664	98.70
CADMIUM	0	0.001105337		1	1.041803	104
CALCIUM	500	504.7244	101	500	513.14	103
CERIUM	0	-0.03537677		0	-0.07318607	
CHROMIUM	0	-0.002977348		0.50	0.4957426	99.10
COBALT	0	0.001209249		0.50	0.5005466	100
COPPER	0	-0.01384132		0.50	0.527683	106
HOT WATER SOL. BORON	0	-0.02507207		0	0.9866664	
IRON	200	199.7435	99.90	200	203.4645	102
LANTHANUM	0	-0.01093232		0	-0.01236836	
LEAD	0	-0.008900102		1	0.9696765	97
LITHIUM	0	0.0009581725		0	-0.000064753	
MAGNESIUM	500	506.8968	101	500	516.8698	103
MANGANESE	0	0.001630883		0.50	0.5077575	102
MOLYBDENUM	0	-0.0001039387		0.50	0.4986634	99.70
NICKEL	0	-0.009421016		1	0.9744007	97.40
PHOSPHORUS	0	0.008440357		0	0.009401956	
POTASSIUM	0	-0.02413408		0	0.05399752	
SELENIUM	0	-0.000002577646		0.50	0.5327401	107
SILICON	0	-0.02774185		1	0.9665964	96.70
SILVER	0	-0.001051698		1	0.9181975	91.80
SODIUM	0	0.0234708		0	0.08665133	
STRONTIUM	0	0.006198191		0	0.006301611	
SULFUR	0	-0.178825		0	-0.1847989	
THALLIUM	0	-0.01159576		0.50	0.4554221	91.10
TIN	0	-0.007612868		0.50	0.4762115	95.20
TITANIUM	0	-0.01382504		0.50	0.4887735	97.80
VANADIUM	0	-0.006042197		0.50	0.4775126	95.50
ZINC	0	0.003288463		1	0.970504	97.10

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP13	**Date:**	03/14/25 01:08
Instrument Run:	031325ICP13A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	502.6759	101	500	511.2752	102
ANTIMONY	0	-0.004993772		0.50	0.4970144	99.40
ARSENIC	0	-0.0009426708		0.50	0.5119861	102
BARIUM	0	0.002368554		0.50	0.5121889	102
BERYLLIUM	0	-0.0001115341		0.50	0.4953547	99.10
BORON	0	-0.02507488		1	0.9611313	96.10
CADMIUM	0	0.001294137		1	1.039649	104
CALCIUM	500	509.2917	102	500	518.0503	104
CERIUM	0	-0.05639532		0	-0.05168461	
CHROMIUM	0	-0.003485695		0.50	0.4988567	99.80
COBALT	0	0.001466193		0.50	0.4894589	97.90
COPPER	0	-0.01419124		0.50	0.5305597	106
HOT WATER SOL. BORON	0	-0.02507488		0	0.9611313	
IRON	200	194.5824	97.30	200	198.2241	99.10
LANTHANUM	0	-0.01250158		0	-0.01109071	
LEAD	0	-0.005064674		1	0.9643535	96.40
LITHIUM	0	0.004186245		0	0.002820858	
MAGNESIUM	500	499.4492	99.90	500	510.3132	102
MANGANESE	0	0.001844179		0.50	0.4999635	100
MOLYBDENUM	0	0.002670129		0.50	0.4937309	98.70
NICKEL	0	-0.009645714		1	0.9659412	96.60
PHOSPHORUS	0	0.00333815		0	0.01823898	
POTASSIUM	0	0.02395		0	0.05644579	
SELENIUM	0	0.003641426		0.50	0.5067291	101
SILICON	0	-0.01862005		1	0.9812571	98.10
SILVER	0	-0.0003615901		1	0.9342268	93.40
SODIUM	0	0.05867292		0	0.04957443	
STRONTIUM	0	0.006154095		0	0.006263637	
SULFUR	0	-0.1790241		0	-0.1817411	
THALLIUM	0	-0.0183567		0.50	0.4653276	93.10
TIN	0	-0.004283265		0.50	0.4704069	94.10
TITANIUM	0	-0.01507298		0.50	0.4818879	96.40
VANADIUM	0	-0.006921306		0.50	0.4698878	94
ZINC	0	0.0127499		1	0.9478684	94.80

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP13	**Date:**	03/14/25 04:59
Instrument Run:	031325ICP13A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	496.2043	99.20	500	503.6545	101
ANTIMONY	0	-0.002086477		0.50	0.4916988	98.30
ARSENIC	0	-0.01279534		0.50	0.4981194	99.60
BARIUM	0	0.002619021		0.50	0.509104	102
BERYLLIUM	0	-0.0001536712		0.50	0.4862593	97.30
BORON	0	-0.02232949		1	0.9562393	95.60
CADMIUM	0	0.0008528613		1	1.035464	104
CALCIUM	500	514.1431	103	500	521.1701	104
CERIUM	0	-0.001063017		0	-0.02026544	
CHROMIUM	0	-0.002979033		0.50	0.492489	98.50
COBALT	0	0.00159239		0.50	0.4858767	97.20
COPPER	0	-0.01526291		0.50	0.5252423	105
HOT WATER SOL. BORON	0	-0.02232949		0	0.9562393	
IRON	200	195.2338	97.60	200	197.935	99
LANTHANUM	0	-0.01051636		0	-0.013598	
LEAD	0	-0.008125236		1	0.9722736	97.20
LITHIUM	0	0.00176417		0	0.002810003	
MAGNESIUM	500	502.8524	101	500	509.9164	102
MANGANESE	0	0.00183131		0.50	0.4908768	98.20
MOLYBDENUM	0	0.001297667		0.50	0.492155	98.40
NICKEL	0	-0.008751665		1	0.9743154	97.40
PHOSPHORUS	0	0.01388616		0	0.01631892	
POTASSIUM	0	0.06423015		0	0.0824251	
SELENIUM	0	-0.01369754		0.50	0.4909211	98.20
SILICON	0	-0.02807171		1	0.9758864	97.60
SILVER	0	-0.000936874		1	0.8142002	81.40
SODIUM	0	0.08994594		0	0.1062749	
STRONTIUM	0	0.006285589		0	0.006349711	
SULFUR	0	-0.1753231		0	-0.1714899	
THALLIUM	0	-0.01496721		0.50	0.4631741	92.60
TIN	0	-0.006505654		0.50	0.472693	94.50
TITANIUM	0	-0.01672634		0.50	0.4696673	93.90
VANADIUM	0	-0.004223551		0.50	0.4747425	94.90
ZINC	0	0.01195954		1	0.9576966	95.80

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Date:**	03/14/25 08:13
Instrument Run:	031425ICP14		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	504.265	101	500	516.6804	103
ANTIMONY	0	-0.01140272		0.50	0.5008204	100
ARSENIC	0	0.0009972163		0.50	0.5136848	103
BARIUM	0	-0.000000473992 6		0.50	0.5304814	106
BERYLLIUM	0	-0.0002750826		0.50	0.5101395	102
BORON	0	-0.01625842		1	1.041549	104
CADMIUM	0	0.0001059159		1	1.057833	106
CALCIUM	500	506.4178	101	500	516.0111	103
CERIUM	0	-0.3006517		0	-0.3036022	
CHROMIUM	0	0.002184833		0.50	0.5106394	102
COBALT	0	0.0005892596		0.50	0.5029139	101
COPPER	0	0.000002281294		0.50	0.5465049	109
IRON	200	199.1994	99.60	200	201.7043	101
LANTHANUM	0	-0.01770866		0	-0.01611295	
LEAD	0	-0.0001607776		1	0.9949662	99.50
LITHIUM	0	0.01882801		0	0.01836607	
MAGNESIUM	500	501.1563	100	500	515.8342	103
MANGANESE	0	0.0009633751		0.50	0.5107758	102
MOLYBDENUM	0	-0.000339133		0.50	0.508112	102
NICKEL	0	0.006630029		1	1.014674	101
PHOSPHORUS	0	0.020386		0	0.007107932	
POTASSIUM	0	-0.2543591		0	-0.2264981	
SELENIUM	0	-0.0003352395		0.50	0.5125486	103
SILICON	0	-0.01646506		1	1.052399	105
SILVER	0	-0.002717468		1	0.9518093	95.20
SODIUM	0	-0.02506256		0	0.04184656	
STRONTIUM	0	0.007242937		0	0.007441342	
SULFUR	0	-0.1099176		0	-0.09645961	
THALLIUM	0	-0.002277414		0.50	0.4968702	99.40
TIN	0	-0.005656962		0.50	0.4900903	98
TITANIUM	0	0.04552637		0.50	0.5505772	110
VANADIUM	0	-0.003114977		0.50	0.4799597	96
ZINC	0	0.01067767		1	0.9608545	96.10

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Date:**	03/14/25 13:46
Instrument Run:	031425ICP14		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	507.6462	102	500	513.6637	103
ANTIMONY	0	-0.005797299		0.50	0.5073896	101
ARSENIC	0	-0.0008533045		0.50	0.5182506	104
BARIUM	0	0.001337484		0.50	0.5396998	108
BERYLLIUM	0	-0.000191255		0.50	0.5051314	101
BORON	0	-0.001822686		1	1.031476	103
CADMIUM	0	0.00006754436		1	1.062373	106
CALCIUM	500	502.2383	100	500	505.9799	101
CERIUM	0	-0.3047088		0	-0.3300663	
CHROMIUM	0	0.001874429		0.50	0.4847074	96.90
COBALT	0	0.0004924603		0.50	0.4972305	99.40
COPPER	0	0.0004040483		0.50	0.5553945	111
IRON	200	198.0527	99	200	196.7108	98.40
LANTHANUM	0	-0.01702867		0	-0.01311119	
LEAD	0	-0.0004914659		1	1.011944	101
LITHIUM	0	0.01904955		0	0.01874066	
MAGNESIUM	500	500.6902	100	500	506.2148	101
MANGANESE	0	0.001414239		0.50	0.5048398	101
MOLYBDENUM	0	0.0001397053		0.50	0.5005317	100
NICKEL	0	0.006604213		1	0.987575	98.80
PHOSPHORUS	0	0.009434529		0	0.02031372	
POTASSIUM	0	-0.2045291		0	-0.107502	
SELENIUM	0	0.008246986		0.50	0.5077693	102
SILICON	0	-0.0103862		1	1.019975	102
SILVER	0	-0.002972095		1	0.8972253	89.70
SODIUM	0	0.1315856		0	0.2106168	
STRONTIUM	0	0.007288058		0	0.007371369	
SULFUR	0	0.08491581		0	0.1400935	
THALLIUM	0	0.002883205		0.50	0.5319177	106
TIN	0	-0.006338901		0.50	0.47541	95.10
TITANIUM	0	0.04195346		0.50	0.5569688	111
VANADIUM	0	-0.004519624		0.50	0.4680223	93.60
ZINC	0	0.01186558		1	0.9788817	97.90

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Date:**	03/18/25 06:55
Instrument Run:	031825ICP14		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	494.1831	98.80	500	502.8419	101
ANTIMONY	0	-0.00007910459		0.50	0.487334	97.50
ARSENIC	0	-0.005727671		0.50	0.488252	97.70
BARIUM	0	0.0008446654		0.50	0.5095689	102
BERYLLIUM	0	-0.0002410906		0.50	0.4876084	97.50
BORON	0	-0.152208		1	0.8509268	85.10
CADMIUM	0	0.000488171		1	1.003691	100
CALCIUM	500	492.6834	98.50	500	498.5639	99.70
CERIUM	0	-0.4555751		0	-0.4636518	
CHROMIUM	0	0.001053945		0.50	0.4876569	97.50
COBALT	0	0.001738617		0.50	0.4783524	95.70
COPPER	0	0.003177985		0.50	0.5227475	105
HOT WATER SOL. BORON	0	-0.152208		0	0.8509268	
IRON	200	195.0594	97.50	200	193.31	96.70
LANTHANUM	0	-0.02274236		0	-0.018813	
LEAD	0	0.0002545507		1	0.944592	94.50
LITHIUM	0	0.01774924		0	0.01784216	
MAGNESIUM	500	491.9888	98.40	500	493.8627	98.80
MANGANESE	0	0.0008510138		0.50	0.4859938	97.20
MOLYBDENUM	0	0.0004664925		0.50	0.4798879	96
NICKEL	0	0.005844987		1	0.9517932	95.20
PHOSPHORUS	0	-0.002399448		0	-0.01450273	
POTASSIUM	0	-0.08004133		0	-0.01990782	
SELENIUM	0	-0.000945845		0.50	0.4690568	93.80
SILICON	0	-0.01495384		1	0.8997236	90
SILVER	0	-0.001567729		1	0.8438925	84.40
SODIUM	0	0.05401555		0	0.09712089	
STRONTIUM	0	0.006623057		0	0.006486235	
SULFUR	0	0.03590742		0	0.04633822	
THALLIUM	0	0.004118128		0.50	0.4657968	93.20
TIN	0	-0.003372062		0.50	0.4621277	92.40
TITANIUM	0	0.04435137		0.50	0.5273376	105
VANADIUM	0	0.02461563		0.50	0.4739305	94.80
ZINC	0	0.07404286		1	0.9832541	98.30

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Date:**	03/18/25 18:23
Instrument Run:	031825ICP14		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	456.487	91.30	500	464.2003	92.80
ANTIMONY	0	0.0008205867		0.50	0.482436	96.50
ARSENIC	0	-0.003877736		0.50	0.4771948	95.40
BARIUM	0	0.001064813		0.50	0.4799383	96
BERYLLIUM	0	-0.0002947274		0.50	0.4952581	99.10
BORON	0	-0.1278973		1	0.8217681	82.20
CADMIUM	0	0.0004743672		1	0.994794	99.50
CALCIUM	500	469.4788	93.90	500	478.8722	95.80
CERIUM	0	-0.4182434		0	-0.3934709	
CHROMIUM	0	0.001143916		0.50	0.4683706	93.70
COBALT	0	0.001327014		0.50	0.4694728	93.90
COPPER	0	0.0007683355		0.50	0.4683201	93.70
HOT WATER SOL. BORON	0	-0.1278973		0	0.8217681	
IRON	200	189.9599	95	200	192.8771	96.40
LANTHANUM	0	-0.01633838		0	-0.009916585	
LEAD	0	0.005754861		1	0.9753132	97.50
LITHIUM	0	0.01780564		0	0.01854661	
MAGNESIUM	500	493.3348	98.70	500	508.4243	102
MANGANESE	0	0.0007408593		0.50	0.4575612	91.50
MOLYBDENUM	0	0.0001427013		0.50	0.4922739	98.50
NICKEL	0	0.003670314		1	1.00892	101
PHOSPHORUS	0	0.0003167557		0	-0.002427943	
POTASSIUM	0	-0.08037184		0	-0.05978984	
SELENIUM	0	-0.01791476		0.50	0.463832	92.80
SILICON	0	-0.01712778		1	0.9197477	92
SILVER	0	-0.001708738		1	0.8688705	86.90
SODIUM	0	0.04200149		0	0.09005307	
STRONTIUM	0	0.006609028		0	0.006627422	
SULFUR	0	0.01865104		0	0.03193098	
THALLIUM	0	0.005143327		0.50	0.4860017	97.20
TIN	0	-0.002785695		0.50	0.4586178	91.70
TITANIUM	0	0.04225847		0.50	0.5173087	103
VANADIUM	0	0.03252287		0.50	0.4729318	94.60
ZINC	0	0.07568476		1	1.001438	100

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Date:**	03/18/25 22:40
Instrument Run:	031825ICP14		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	500	451.5991	90.30	500	450.6092	90.10
ANTIMONY	0	0.001153924		0.50	0.4825496	96.50
ARSENIC	0	-0.001754868		0.50	0.4718651	94.40
BARIUM	0	0.00141007		0.50	0.4674043	93.50
BERYLLIUM	0	-0.0003232637		0.50	0.4974908	99.50
BORON	0	-0.1474		1	0.8185909	81.90
CADMIUM	0	0.0002319677		1	0.9963272	99.60
CALCIUM	500	476.0355	95.20	500	474.1921	94.80
CERIUM	0	-0.2451583		0	-0.3154266	
CHROMIUM	0	0.001566072		0.50	0.4703965	94.10
COBALT	0	0.001204682		0.50	0.4767801	95.40
COPPER	0	-0.001172786		0.50	0.449959	90
HOT WATER SOL. BORON	0	-0.1474		0	0.8185909	
IRON	200	196.1821	98.10	200	192.7913	96.40
LANTHANUM	0	-0.01463455		0	-0.01687667	
LEAD	0	0.001618508		1	1.010515	101
LITHIUM	0	0.01692851		0	0.01891555	
MAGNESIUM	500	520.3018	104	500	515.5711	103
MANGANESE	0	0.0008386103		0.50	0.4540857	90.80
MOLYBDENUM	0	-0.0001843129		0.50	0.4970138	99.40
NICKEL	0	0.004869091		1	1.05057	105
PHOSPHORUS	0	-0.004061363		0	0.003918251	
POTASSIUM	0	0.01058547		0	-0.001285594	
SELENIUM	0	-0.01726648		0.50	0.4639678	92.80
SILICON	0	-0.01677731		1	0.9353529	93.50
SILVER	0	-0.001931734		1	0.8411408	84.10
SODIUM	0	0.1946717		0	0.1933759	
STRONTIUM	0	0.006742394		0	0.006717094	
SULFUR	0	0.04184094		0	0.07657303	
THALLIUM	0	0.0005281807		0.50	0.4839214	96.80
TIN	0	-0.004400272		0.50	0.4604828	92.10
TITANIUM	0	0.04267186		0.50	0.5278746	106
VANADIUM	0	0.02965541		0.50	0.481307	96.30
ZINC	0	0.07569654		1	1.026594	103

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835192-02

SAMPLE NO.:
R4186366-4
R4186366-5

MS Sample / File ID: R4186366-4 / 20250314014144
MSD Sample / File ID: R4186366-5 / 20250314014424
OS Sample / File ID: L1835894-01 / 20250314013608
Instrument ID: ICP13
Analytical Method: 200.7

SDG: L1835192
Analytical Batch: WG2468756
Matrix: WW

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Arsenic	1000	5.29	1040	1050	104	105	1	70.0 - 130	1.02	20
Barium	1000	1.37	1070	1070	107	107	1	70.0 - 130	0.492	20
Boron	1000	U	965	982	96.5	98.2	1	70.0 - 130	1.74	20
Cadmium	1000	1.35	1030	1030	103	103	1	70.0 - 130	0.436	20
Chromium	1000	U	1070	1070	107	107	1	70.0 - 130	0.288	20
Cobalt	1000	1.09	994	997	99.3	99.6	1	70.0 - 130	0.246	20
Lead	1000	U	1020	1020	102	102	1	70.0 - 130	0.229	20
Lithium	1000	U	1050	1060	105	106	1	70.0 - 130	0.335	20
Selenium	1000	U	1050	1050	105	105	1	70.0 - 130	0.435	20
Silver	200	U	204	205	102	102	1	70.0 - 130	0.363	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835192-01,03

SAMPLE NO.:
R4186583-4
R4186583-5

MS Sample / File ID: R4186583-4 / 20250314094232
MSD Sample / File ID: R4186583-5 / 20250314094505
OS Sample / File ID: L1835085-01 / 20250314093711
Instrument ID: ICP14
Analytical Method: 200.7

SDG: L1835192
Analytical Batch: WG2468629
Matrix: WW

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Arsenic	1000	6.50	1060	1070	105	106	1	70.0 - 130	0.903	20
Barium	1000	U	1050	1070	105	107	1	70.0 - 130	1.49	20
Boron	1000	522	1480	1500	95.5	98.0	1	70.0 - 130	1.69	20
Cadmium	1000	U	1030	1050	103	105	1	70.0 - 130	1.32	20
Chromium	1000	4.25	1070	1080	107	108	1	70.0 - 130	1.31	20
Cobalt	1000	U	1010	1020	101	102	1	70.0 - 130	1.16	20
Lead	1000	U	1010	1020	101	102	1	70.0 - 130	1.61	20
Lithium	1000	U	1050	1050	105	105	1	70.0 - 130	0.459	20
Selenium	1000	U	1060	1070	106	107	1	70.0 - 130	1.62	20
Silver	200	1.91	214	217	106	108	1	70.0 - 130	1.45	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835192-01,02

SAMPLE NO.:
R4187947-4
R4187947-5

MS Sample / File ID:	R4187947-4 / 20250318195620	**SDG:**	L1835192
MSD Sample / File ID:	R4187947-5 / 20250318195854	**Analytical Batch:**	WG2470166
OS Sample / File ID:	L1835142-02 / 20250318195056	**Matrix:**	WW
Instrument ID:	ICP14		
Analytical Method:	200.7		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Arsenic,Dissolved	1000	U	962	958	96.2	95.8	1	70.0 - 130	0.357	20
Barium,Dissolved	1000	43.9	960	958	91.6	91.4	1	70.0 - 130	0.236	20
Boron,Dissolved	1000	30.7	931	944	90.0	91.3	1	70.0 - 130	1.36	20
Cadmium,Dissolved	1000	U	956	950	95.6	95.0	1	70.0 - 130	0.552	20
Chromium,Dissolved	1000	U	947	941	94.7	94.1	1	70.0 - 130	0.635	20
Cobalt,Dissolved	1000	U	925	919	92.5	91.9	1	70.0 - 130	0.605	20
Lead,Dissolved	1000	U	990	982	99.0	98.2	1	70.0 - 130	0.746	20
Lithium,Dissolved	1000	5.82	953	957	94.7	95.2	1	70.0 - 130	0.501	20
Selenium,Dissolved	1000	U	983	987	98.3	98.7	1	70.0 - 130	0.408	20
Silver,Dissolved	200	U	177	176	88.3	88.2	1	70.0 - 130	0.122	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835192-02

SAMPLE NO.:
R4186366-2

LCS Sample / File ID:	R4186366-2 / 20250314013313	**SDG:**	L1835192
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2468756
Instrument ID:	ICP13	**Dilution Factor:**	1
Analytical Method:	200.7	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Arsenic	1000	1020		102		85.0 - 115		
Barium	1000	1060		106		85.0 - 115		
Boron	1000	957		95.7		85.0 - 115		
Cadmium	1000	1010		101		85.0 - 115		
Chromium	1000	1060		106		85.0 - 115		
Cobalt	1000	981		98.1		85.0 - 115		
Lead	1000	997		99.7		85.0 - 115		
Lithium	1000	1040		104		85.0 - 115		
Selenium	1000	1030		103		85.0 - 115		
Silver	200	202		101		85.0 - 115		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835192-01,03

SAMPLE NO.:
R4186583-2

LCS Sample / File ID:	R4186583-2 / 20250314093422	**SDG:**	L1835192
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2468629
Instrument ID:	ICP14	**Dilution Factor:**	1
Analytical Method:	200.7	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Arsenic	1000	1060		106		85.0 - 115		
Barium	1000	1070		107		85.0 - 115		
Boron	1000	1040		104		85.0 - 115		
Cadmium	1000	1040		104		85.0 - 115		
Chromium	1000	1070		107		85.0 - 115		
Cobalt	1000	1000		100		85.0 - 115		
Lead	1000	1020		102		85.0 - 115		
Lithium	1000	1040		104		85.0 - 115		
Selenium	1000	1050		105		85.0 - 115		
Silver	200	218		109		85.0 - 115		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835192-01,02

SAMPLE NO.:
R4187947-2

LCS Sample / File ID:	R4187947-2 / 20250318194809	**SDG:**	L1835192
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2470166
Instrument ID:	ICP14	**Dilution Factor:**	1
Analytical Method:	200.7	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Arsenic,Dissolved	1000	967		96.7		85.0 - 115		
Barium,Dissolved	1000	944		94.4		85.0 - 115		
Boron,Dissolved	1000	922		92.2		85.0 - 115		
Cadmium,Dissolved	1000	967		96.7		85.0 - 115		
Chromium,Dissolved	1000	967		96.7		85.0 - 115		
Cobalt,Dissolved	1000	945		94.5		85.0 - 115		
Lead,Dissolved	1000	1000		100		85.0 - 115		
Lithium,Dissolved	1000	968		96.8		85.0 - 115		
Selenium,Dissolved	1000	992		99.2		85.0 - 115		
Silver,Dissolved	200	179		89.6		85.0 - 115		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4186366-3 / 20250314013904	**SDG:**	L1835192
OS Sample / File ID:	L1835894-01 / 20250314013608	**Analytical Batch:**	WG2468756
Lab File ID:	20250314013904	**Dilution Factor:**	5
Instrument ID:	ICP13	**Matrix:**	WW
Analytical Method:	200.7		

Analyte	OS Result	SD Result	RPD	RPD Limits
	ug/l	*ug/l*	*%*	*%*
Arsenic	5.29	U	0.000	10
Barium	1.37	U	0.000	10
Boron	U	U	0.000	10
Cadmium	1.35	U	0.000	10
Chromium	U	U	0.000	10
Cobalt	1.09	U	0.000	10
Lead	U	U	0.000	10
Lithium	U	U	0.000	10
Selenium	U	U	0.000	10
Silver	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4186583-3 / 20250314094001	**SDG:**	L1835192
OS Sample / File ID:	L1835085-01 / 20250314093711	**Analytical Batch:**	WG2468629
Lab File ID:	20250314094001	**Dilution Factor:**	5
Instrument ID:	ICP14	**Matrix:**	WW
Analytical Method:	200.7		

Analyte	OS Result	SD Result	RPD	RPD Limits
	ug/l	*ug/l*	*%*	*%*
Arsenic	6.50	U	0.000	10
Barium	U	U	0.000	10
Boron	522	492	5.84	10
Cadmium	U	U	0.000	10
Chromium	4.25	U	0.000	10
Cobalt	U	U	0.000	10
Lead	U	U	0.000	10
Lithium	U	U	0.000	10
Selenium	U	U	0.000	10
Silver	1.91	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4187947-3 / 20250318195346	**SDG:**	L1835192
OS Sample / File ID:	L1835142-02 / 20250318195056	**Analytical Batch:**	WG2470166
Lab File ID:	20250318195346	**Dilution Factor:**	5
Instrument ID:	ICP14	**Matrix:**	WW
Analytical Method:	200.7		

Analyte	OS Result	SD Result	RPD	RPD Limits
	ug/l	*ug/l*	*%*	*%*
Arsenic,Dissolved	U	U	0.000	10
Barium,Dissolved	43.9	41.4	5.87	10
Boron,Dissolved	30.7	U	0.000	10
Cadmium,Dissolved	U	U	0.000	10
Chromium,Dissolved	U	U	0.000	10
Cobalt,Dissolved	U	U	0.000	10
Lead,Dissolved	U	U	0.000	10
Lithium,Dissolved	5.82	U	0.000	10
Selenium,Dissolved	U	U	0.000	10
Silver,Dissolved	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835192-01,02,03 **Analytical Method:** 200.7

Matrix: WW **Prep Method:** 200.7

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/l	*mg/l*
Boron	7440-42-8	177.4950	249.6780	0.0285	0.20
Boron,Dissolved	7440-42-8	189.0420	249.6780	0.0285	0.20
Cadmium	7440-43-9	177.4950	228.8020	0.000492	0.0020
Cadmium,Dissolved	7440-43-9	189.0420	228.8020	0.000492	0.0020
Chromium	7440-47-3	177.4950	267.7160	0.000920	0.01
Chromium,Dissolved	7440-47-3	189.0420	267.7160	0.000920	0.01
Cobalt	7440-48-4	177.4950	228.6160	0.001020	0.01
Cobalt,Dissolved	7440-48-4	189.0420	228.6160	0.001020	0.01
Lead	7439-92-1	177.4950	220.3530	0.002720	0.0050
Lead,Dissolved	7439-92-1	189.0420	220.3530	0.002720	0.0050
Lithium	7439-93-2	177.4950	670.7840	0.0038	0.0150
Lithium,Dissolved	7439-93-2	189.0420	670.7840	0.0038	0.0150
Selenium	7782-49-2	177.4950	196.09	0.005290	0.01
Selenium,Dissolved	7782-49-2	189.0420	196.09	0.005290	0.01
Silver	7440-22-4	177.4950	328.0680	0.001340	0.0050
Silver,Dissolved	7440-22-4	189.0420	328.0680	0.001340	0.0050
Arsenic	7440-38-2	177.4950	189.0420	0.004780	0.01
Arsenic,Dissolved	7440-38-2	189.0420	189.0420	0.004780	0.01
Barium	7440-39-3	177.4950	233.5270	0.000675	0.0050
Barium,Dissolved	7440-39-3	189.0420	233.5270	0.000675	0.0050

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L1835192 **Analytical Method:** 200.7

Instrument ID: ICP13 **Date:** 07/28/23 07:16

Analyte	Wavelength	ARSENIC	CERIUM	CHROMIUM	COBALT	COPPER	IRON	LANTHANUM
	nm	189.0420	535.3530	267.7160	228.6160	324.7540	271.4410	333.7490
ALUMINUM	308.2150							
ANTIMONY	206.8330			-0.00043260				
ARSENIC	189.0420							-0.00532076
BERYLLIUM	313.0420							
CADMIUM	228.8020	-0.15291673						
COBALT	228.6160							
LEAD	220.3530		-0.00035078			-0.00001401	-0.00041235	0.00000145
NICKEL	231.6040						-0.00098060	
PHOSPHORUS	177.4950							
THALLIUM	190.8560				-0.00008407			
TITANIUM	334.9410			-0.00012044				

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L1835192 **Analytical Method:** 200.7

Instrument ID: ICP13 **Date:** 07/28/23 07:16

Analyte	Wavelength	MAGNESIUM	MANGANESE	MOLYBDENUM	POTASSIUM	SILICON	SULFUR	TITANIUM
	nm	279.0790	257.61	202.03	766.49	251.6110	182.0340	334.9410
ALUMINUM	308.2150			-0.00393995				
ANTIMONY	206.8330	-0.00013070			-0.00001138		-0.00557514	
ARSENIC	189.0420			-0.00023896				
BERYLLIUM	313.0420							
CADMIUM	228.8020							
COBALT	228.6160							-0.00163701
LEAD	220.3530					-0.00003453		
NICKEL	231.6040							
PHOSPHORUS	177.4950					-0.00001698		
THALLIUM	190.8560		-0.00000157	-0.00027950				
TITANIUM	334.9410							

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP13	**Date:**	07/28/23 07:16

Analyte	Wavelength	VANADIUM	ZINC
	nm	292.4020	206.20
ALUMINUM	308.2150		
ANTIMONY	206.8330		-0.00016041
ARSENIC	189.0420		
BERYLLIUM	313.0420	-0.01698239	
CADMIUM	228.8020		
COBALT	228.6160		
LEAD	220.3530		
NICKEL	231.6040		
PHOSPHORUS	177.4950	-0.00005985	
THALLIUM	190.8560		
TITANIUM	334.9410		

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L1835192 **Analytical Method:** 200.7

Instrument ID: ICP14 **Date:** 01/16/23 09:38

Analyte	Wavelength	ARSENIC	CALCIUM	CERIUM	CHROMIUM	COBALT	COPPER	LANTHANUM
	nm	189.0420	373.69	535.3530	267.7160	228.6160	324.7540	333.7490
ALUMINUM	308.2150							
ANTIMONY	206.8330				-0.00015856			
ARSENIC	189.0420							-0.00621426
BERYLLIUM	313.0420							
CADMIUM	228.8020	-0.08940684						
COBALT	228.6160							
LEAD	220.3530			-0.00420725			-0.00001296	
STRONTIUM	421.5520		-0.00160714					
THALLIUM	190.8560					-0.00011278		

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Date:**	01/16/23 09:38

Analyte	Wavelength	MANGANESE	TITANIUM	VANADIUM
	nm	257.61	334.9410	292.4020
ALUMINUM	308.2150			-0.00554640
ANTIMONY	206.8330			
ARSENIC	189.0420			
BERYLLIUM	313.0420			-0.01066047
CADMIUM	228.8020			
COBALT	228.6160		-0.00141584	
LEAD	220.3530			
STRONTIUM	421.5520			
THALLIUM	190.8560	-0.00000569		

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP13	**Date:**	02/10/25 14:29

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	200
POTASSIUM	500
SELENIUM	10
SILICON	100
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Date:**	02/09/25 19:27

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	50
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	10
CALCIUM	1000
CHROMIUM	50
COBALT	50
COPPER	50
IRON	500
LEAD	100
LITHIUM	10
MAGNESIUM	1000
MANGANESE	20
MOLYBDENUM	20
NICKEL	50
PHOSPHORUS	4
POTASSIUM	500
SELENIUM	10
SILICON	50
SILVER	10
SODIUM	1000
STRONTIUM	20
SULFUR	200
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP13	**Calibration Start Date:**	03/13/25 07:57
Analytical Run:	031325ICP13A	**Calibration End Date:**	03/13/25 08:13

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP130313250754	20250313075411	03/13/25 07:54		
CAL	STD1	20250313075707	03/13/25 07:57		
CAL	STD2	20250313075956	03/13/25 07:59		
CAL	STD3	20250313080241	03/13/25 08:02		
CAL	STD4	20250313080523	03/13/25 08:05		
CAL	STD5	20250313080802	03/13/25 08:08		
CAL	STD6	20250313081055	03/13/25 08:10		
CAL	STD7	20250313081353	03/13/25 08:13		
ICV	ICP130313250817-3	20250313081710-3	03/13/25 08:17		
ICB	ICP130313250834-3	20250313083414-3	03/13/25 08:34		
ICVLL	ICP130313250842-3	20250313084248-3	03/13/25 08:42		
ICSA	ICP130313250845-3	20250313084540-3	03/13/25 08:45		
ICSAB	ICP130313250848-3	20250313084821-3	03/13/25 08:48		
CCV	ICP130314250102-2	20250314010225-2	03/14/25 01:02		
CCB	ICP130314250105-2	20250314010522-2	03/14/25 01:05		
ICSA	ICP130314250108-2	20250314010819-2	03/14/25 01:08		
ICSAB	ICP130314250111-2	20250314011110-2	03/14/25 01:11		
BLANK	R4186366-1	20250314013030	03/14/25 01:30	1	WG2468756
LCS	R4186366-2	20250314013313	03/14/25 01:33	1	WG2468756
OS	L1835894-01	20250314013608	03/14/25 01:36		
L1835894-01	L1835894-01	20250314013608	03/14/25 01:36	1	WG2468756
SD	R4186366-3	20250314013904	03/14/25 01:39	5	WG2468756
MS	R4186366-4	20250314014144	03/14/25 01:41	1	WG2468756
MSD	R4186366-5	20250314014424	03/14/25 01:44	1	WG2468756
DEEPWATER-I-SW	L1835192-02	20250314014717	03/14/25 01:47	1	WG2468756
L1835824-01	L1835824-01	20250314015009	03/14/25 01:50	1	WG2468756
L1835894-02	L1835894-02	20250314015304	03/14/25 01:53	1	WG2468756
L1835894-03	L1835894-03	20250314015600	03/14/25 01:56	1	WG2468756
CCV	ICP130314250158	20250314015843	03/14/25 01:58		
CCB	ICP130314250201	20250314020141	03/14/25 02:01		
ICSA	ICP130314250459	20250314045923	03/14/25 04:59		
ICSAB	ICP130314250502	20250314050214	03/14/25 05:02		

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Calibration Start Date:**	03/14/25 07:12
Analytical Run:	031425ICP14	**Calibration End Date:**	03/14/25 07:27

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP140314250709	20250314070926	03/14/25 07:09		
CAL	STD1	20250314071215	03/14/25 07:12		
CAL	STD2	20250314071455	03/14/25 07:14		
CAL	STD3	20250314071733	03/14/25 07:17		
CAL	STD4	20250314072009	03/14/25 07:20		
CAL	STD5	20250314072240	03/14/25 07:22		
CAL	STD6	20250314072506	03/14/25 07:25		
CAL	STD7	20250314072758	03/14/25 07:27		
ICV	ICP140314250731	20250314073103	03/14/25 07:31		
ICB	ICP140314250802	20250314080248	03/14/25 08:02		
CCV	ICP140314250805	20250314080523	03/14/25 08:05		
CCB	ICP140314250808	20250314080813	03/14/25 08:08		
ICVLL	ICP140314250811	20250314081103	03/14/25 08:11		
ICSA	ICP140314250813	20250314081348	03/14/25 08:13		
ICSAB	ICP140314250816	20250314081620	03/14/25 08:16		
BLANK	R4186583-1	20250314093150	03/14/25 09:31	1	WG2468629
LCS	R4186583-2	20250314093422	03/14/25 09:34	1	WG2468629
OS	L1835085-01	20250314093711	03/14/25 09:37		
L1835085-01	L1835085-01	20250314093711	03/14/25 09:37	1	WG2468629
SD	R4186583-3	20250314094001	03/14/25 09:40	5	WG2468629
MS	R4186583-4	20250314094232	03/14/25 09:42	1	WG2468629
MSD	R4186583-5	20250314094505	03/14/25 09:45	1	WG2468629
L1835003-01	L1835003-01	20250314094752	03/14/25 09:47	1	WG2468629
L1835082-01	L1835082-01	20250314095036	03/14/25 09:50	1	WG2468629
MONTROSE-LAKE-I-SW	L1835192-01	20250314095321	03/14/25 09:53	1	WG2468629
TRUMAN-I-SW	L1835192-03	20250314095606	03/14/25 09:56	1	WG2468629
CCV	ICP140314250958	20250314095843	03/14/25 09:58		
CCB	ICP140314251001	20250314100132	03/14/25 10:01		
ICSA	ICP140314251346	20250314134611	03/14/25 13:46		
ICSAB	ICP140314251348	20250314134843	03/14/25 13:48		
CCVLL	ICP140314251423	20250314142325	03/14/25 14:23		

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	200.7
Instrument ID:	ICP14	**Calibration Start Date:**	03/18/25 06:06
Analytical Run:	031825ICP14	**Calibration End Date:**	03/18/25 06:22

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP140318250603	20250318060323	03/18/25 06:03		
CAL	STD1	20250318060614	03/18/25 06:06		
CAL	STD2	20250318060854	03/18/25 06:08		
CAL	STD3	20250318061132	03/18/25 06:11		
CAL	STD4	20250318061409	03/18/25 06:14		
CAL	STD5	20250318061641	03/18/25 06:16		
CAL	STD6	20250318061906	03/18/25 06:19		
CAL	STD7	20250318062200	03/18/25 06:22		
ICV	ICP140318250625-3	20250318062505-3	03/18/25 06:25		
ICB	ICP140318250644-3	20250318064440-3	03/18/25 06:44		
ICVLL	ICP140318250652-3	20250318065255-3	03/18/25 06:52		
ICSA	ICP140318250655-3	20250318065541-3	03/18/25 06:55		
ICSAB	ICP140318250658-3	20250318065813-3	03/18/25 06:58		
CCVLL	ICP140318251433-3	20250318143336-3	03/18/25 14:33		
CCV	ICP140318251809-2	20250318180914-2	03/18/25 18:09		
CCB	ICP140318251812-2	20250318181206-2	03/18/25 18:12		
ICSA	ICP140318251823-3	20250318182309-3	03/18/25 18:23		
ICSAB	ICP140318251825-3	20250318182543-3	03/18/25 18:25		
BLANK	R4187947-1	20250318194535	03/18/25 19:45	1	WG2470166
LCS	R4187947-2	20250318194809	03/18/25 19:48	1	WG2470166
OS	L1835142-02	20250318195056	03/18/25 19:50		
L1835142-02	L1835142-02	20250318195056	03/18/25 19:50	1	WG2470166
SD	R4187947-3	20250318195346	03/18/25 19:53	5	WG2470166
MS	R4187947-4	20250318195620	03/18/25 19:56	1	WG2470166
MSD	R4187947-5	20250318195854	03/18/25 19:58	1	WG2470166
L1835142-04	L1835142-04	20250318200140	03/18/25 20:01	1	WG2470166
L1835142-07	L1835142-07	20250318200427	03/18/25 20:04	1	WG2470166
MONTROSE-LAKE-I-SW	L1835192-01	20250318200714	03/18/25 20:07	1	WG2470166
DEEPWATER-I-SW	L1835192-02	20250318201000	03/18/25 20:10	1	WG2470166
CCV	ICP140318252012	20250318201238	03/18/25 20:12		
CCB	ICP140318252015	20250318201529	03/18/25 20:15		
ICSA	ICP140318252240	20250318224055	03/18/25 22:40		
ICSAB	ICP140318252243	20250318224329	03/18/25 22:43		

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.009588302	95.90	0.20	.1970021	98.50
BARIUM	0.0050	.005309759	106	0.10	.1047794	105
BORON	0.20	.1935487	96.80			
CADMIUM	0.0020	.002301154	115	0.10	.09803636	98
CHROMIUM	0.01	.01055609	106	0.20	.2099074	105
COBALT	0.01	.009639231	96.40	0.20	.1946322	97.30
LEAD	0.0050	.005544055	111	0.10	.09873343	98.70
LITHIUM	0.0150	.01369792	91.30	0.20	.1987796	99.40
SELENIUM	0.01	.008234783	82.30	0.20	.1836213	91.80
SILVER	0.0050	.004955423	99.10	0.10	.1023674	102
File ID:		20250313075707			20250313075956	

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INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.3897012	97.40	1	.9748541	97.50
BARIUM	0.20	.2072471	104	0.50	.5089387	102
BORON	0.40	.3907844	97.70	1	.9882532	98.80
CADMIUM	0.20	.1962672	98.10	0.50	.490597	98.10
CHROMIUM	0.40	.4159336	104	1	1.011687	101
COBALT	0.40	.3920766	98	1	.9822066	98.20
LEAD	0.20	.197483	98.70	0.50	.4946227	98.90
LITHIUM	0.40	.3930345	98.30	1	.9749498	97.50
SELENIUM	0.40	.3888387	97.20	1	.9735526	97.40
SILVER	0.20	.2042279	102	0.50	.4915499	98.30
File ID:		20250313080241			20250313080523	

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.000484	100	4	4.007225	100
BARIUM	1	1.016777	102	2	1.988413	99.40
BORON	2	1.991106	99.60	4	4.008628	100
CADMIUM	1	.9957446	99.60	2	2.00495	100
CHROMIUM	2	2.022657	101	4	3.983659	99.60
COBALT	2	1.996962	99.80	4	4.007029	100
LEAD	1	.9976466	99.80	2	2.002835	100
LITHIUM	2	1.971233	98.60	4	4.021408	101
SELENIUM	2	2.001812	100	4	4.007645	100
SILVER	1	.9925209	99.30	2	2.005311	100
File ID:		20250313080802			20250313081055	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 07:12
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/14/25 07:27
Analytical Method:	200.7	**Analytical Run:**	031425ICP14

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.009722632	97.20	0.20	.2008098	100
BARIUM	0.0050	.005067103	101	0.10	.1065233	107
BORON	0.20	.21679	108			
CADMIUM	0.0020	.001908702	95.40	0.10	.102247	102
CHROMIUM	0.01	.01020655	102	0.20	.2055837	103
COBALT	0.01	.009553056	95.50	0.20	.1961184	98.10
LEAD	0.0050	.004748971	95	0.10	.09711381	97.10
LITHIUM	0.0150	.0124137	82.80	0.20	.2022628	101
SELENIUM	0.01	.0111595	112	0.20	.1985839	99.30
SILVER	0.0050	.005188591	104	0.10	.1051319	105
File ID:		20250314071215			20250314071455	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 07:12
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/14/25 07:27
Analytical Method:	200.7	**Analytical Run:**	031425ICP14

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.401812	100	1	1.006767	101
BARIUM	0.20	.2104157	105	0.50	.5209017	104
BORON	0.40	.4080329	102	1	1.010781	101
CADMIUM	0.20	.2042956	102	0.50	.5024435	100
CHROMIUM	0.40	.4117275	103	1	1.025645	103
COBALT	0.40	.3953339	98.80	1	.9954841	99.50
LEAD	0.20	.1965627	98.30	0.50	.4936204	98.70
LITHIUM	0.40	.4054472	101	1	.9943841	99.40
SELENIUM	0.40	.3953487	98.80	1	.9977267	99.80
SILVER	0.20	.2099909	105	0.50	.5022061	100
File ID:		20250314071733			20250314072009	

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 07:12
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/14/25 07:27
Analytical Method:	200.7	**Analytical Run:**	031425ICP14

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.001674	100	4	3.99725	99.90
BARIUM	1	1.003311	100	2	1.991751	99.60
BORON	2	1.978012	98.90	4	4.006656	100
CADMIUM	1	.9933781	99.30	2	2.002158	100
CHROMIUM	2	2.003142	100	4	3.990565	99.80
COBALT	2	1.980072	99	4	4.011755	100
LEAD	1	.9812704	98.10	2	2.011448	101
LITHIUM	2	1.986645	99.30	4	4.007433	100
SELENIUM	2	1.976901	98.80	4	4.012651	100
SILVER	1	.9863918	98.60	2	2.004996	100
File ID:		20250314072240			20250314072506	

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.01	.008391544	83.90	0.20	.1984675	99.20
BARIUM	0.0050	.005737371	115	0.10	.1072751	107
BORON	0.20	.1846647	92.30			
CADMIUM	0.0020	.002103661	105	0.10	.1025344	103
CHROMIUM	0.01	.01077194	108	0.20	.2067293	103
COBALT	0.01	.01001011	100	0.20	.1957697	97.90
LEAD	0.0050	.004507305	90.10	0.10	.1007226	101
LITHIUM	0.0150	.01798218	120	0.20	.1991884	99.60
SELENIUM	0.01	.01056991	106	0.20	.2011702	101
SILVER	0.0050	.005358833	107	0.10	.1023584	102
File ID:		20250318060614			20250318060854	

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INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	0.40	.4047668	101	1	1.0334	103
BARIUM	0.20	.2165818	108	0.50	.5409844	108
BORON	0.40	.3863873	96.60	1	1.040533	104
CADMIUM	0.20	.2081274	104	0.50	.5169942	103
CHROMIUM	0.40	.4173736	104	1	1.048755	105
COBALT	0.40	.3981952	99.50	1	1.021361	102
LEAD	0.20	.2014787	101	0.50	.5067166	101
LITHIUM	0.40	.407441	102	1	1.024951	102
SELENIUM	0.40	.4006058	100	1	1.025253	103
SILVER	0.20	.2073076	104	0.50	.52071	104
File ID:		20250318061132			20250318061409	

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
ARSENIC	2	2.031751	102	4	3.975378	99.40
BARIUM	1	1.017005	102	2	1.979227	99
BORON	2	1.999691	100	4	3.992149	99.80
CADMIUM	1	1.006052	101	2	1.991786	99.60
CHROMIUM	2	2.015746	101	4	3.977862	99.40
COBALT	2	1.999575	100	4	3.995264	99.90
LEAD	1	.9946574	99.50	2	2.000809	100
LITHIUM	2	2.005197	100	4	3.990449	99.80
SELENIUM	2	2.006898	100	4	3.990117	99.80
SILVER	1	.9932089	99.30	2	1.997368	99.90
File ID:		20250318061641			20250318061906	

INITIAL CALIBRATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/13/25 07:57
Instrument ID:	ICP13	**Calibration (end) date/time:**	03/13/25 08:13
Analytical Method:	200.7	**Analytical Run:**	031325ICP13A

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999969	108.4947	-0.655814
BARIUM	233.527	8	5	0.999911	4227.523	-0.327624
BORON	249.678	8	5	0.999982	311.6607	4.007682
CADMIUM	228.802	8	5	0.999977	6590.507	1.438663
CHROMIUM	267.716	8	5	0.999951	9840.71	4.27891
COBALT	228.616	8	5	0.999982	4145.749	-4.742611
LEAD	220.353	8	5	0.999992	648.1994	-1.463538
LITHIUM	670.784	8	5	0.999925	7871.798	-13.19208
SELENIUM	196.09	8	5	0.999956	87.51796	0.455586
SILVER	328.068	8	5	0.999972	12727.44	107.3858

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16A-IN

INITIAL CALIBRATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 07:12
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/14/25 07:27
Analytical Method:	200.7	**Analytical Run:**	031425ICP14

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999998	216.4069	0.310991
BARIUM	233.527	8	5	0.999896	3501.272	-5.510488
BORON	249.678	8	5	0.999957	48.54769	0.336697
CADMIUM	228.802	8	5	0.999988	10060.17	-11.11308
CHROMIUM	267.716	8	5	0.999964	10425.41	-6.497409
COBALT	228.616	8	5	0.999977	5412.112	-0.643924
LEAD	220.353	8	5	0.999917	911.6236	0.732476
LITHIUM	670.784	8	5	0.999988	5024.29	41.14737
SELENIUM	196.09	8	5	0.999972	83.62724	0.627863
SILVER	328.068	8	5	0.999947	11041.02	9.763482

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16A-IN

INITIAL CALIBRATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/18/25 06:06
Instrument ID:	ICP14	**Calibration (end) date/time:**	03/18/25 06:22
Analytical Method:	200.7	**Analytical Run:**	031825ICP14

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.999893	228.8966	0.136662
BARIUM	233.527	8	5	0.999569	5148.339	-7.675813
BORON	249.678	8	5	0.999908	52.04243	0.080356
CADMIUM	228.802	8	5	0.999928	10423.9	-11.24939
CHROMIUM	267.716	8	5	0.999865	12149.93	-8.627506
COBALT	228.616	8	5	0.999981	5453.133	-2.378112
LEAD	220.353	8	5	0.999988	586.6981	-1.84719
LITHIUM	670.784	8	5	0.999969	4646.711	10.72323
SELENIUM	196.09	8	5	0.99997	168.0725	1.059091
SILVER	328.068	8	5	0.999916	16077.07	-13.21855

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

Sample ID: CALBLK Units: mg/l
Analyzed: 03/13/25 07:54 Sequence: 2 Standard ID: 25C10350

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11208.33	11201.45	11223.62	11199.93
YTTRIUM	360.073	Axial	326176.3	325943.6	326849.5	325735.7
YTTRIUM	360.073	Radial	12681.00	12625.39	12667.80	12749.79
INDIUM	230.606	Axial	3339.227	3342.158	3338.931	3336.591

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	11.56176	11.37663	9.720239	13.58842
ANTIMONY	206.833	Axial	0.5279300	0.04744767	1.468005	0.06833675
ARSENIC	189.042	Axial	-0.6558663	-1.032279	-0.7069266	-0.2283931
BARIUM	233.527	Axial	-0.3278911	-0.6918980	-0.6843077	0.3925325
BERYLLIUM	313.042	Radial	-9.61313	-8.935993	-12.15856	-7.744837
BORON	249.678	Radial	4.007712	5.735661	1.332445	4.955030
CADMIUM	228.802	Axial	1.438325	0.3855795	1.027540	2.901855
CALCIUM	317.933	Radial	82.07239	79.88362	81.14035	85.19320
CALCIUM	373.690	Radial	24.07244	21.86201	19.23718	31.11814
CERIUM	535.353	Radial	347.8054	348.1020	348.8230	346.4912
CHROMIUM	267.716	Axial	4.277778	1.388889	2.861111	8.583333
COBALT	228.616	Axial	-4.74258	-4.247680	-5.810974	-4.169095
COPPER	324.754	Axial	212.6859	212.8640	221.0370	204.1568
IRON	259.940	Radial	42.43108	43.76559	40.88941	42.63824
IRON	271.441	Radial	-0.7121157	-0.6095871	-1.859871	0.3331113
LANTHANUM	333.749	Radial	2.788005	2.950956	3.289474	2.123584
LEAD	220.353	Axial	-1.46403	-2.756384	-0.5317859	-1.103941
LITHIUM	670.784	Radial	-13.1969	-5.818786	-22.07972	-11.69221
MAGNESIUM	279.079	Radial	0.1764856	-1.108340	-0.3608705	1.998668
MANGANESE	257.610	Axial	15.64532	16.93730	16.98208	13.01659
MOLYBDENUM	202.030	Axial	0.8830903	1.177124	0.9983361	0.4738108
NICKEL	231.604	Axial	-5.59563	-5.142448	-6.114660	-5.529791
PHOSPHORUS	177.495	Axial	0.6485241	0.8229132	1.110454	0.01220525
POTASSIUM	766.490	Radial	-68.9347	-46.71654	-77.42061	-82.66711
SELENIUM	196.090	Axial	0.4554412	1.066260	0.2113256	0.08873820
SILICON	251.611	Axial	16.65040	15.36398	17.79446	16.79275
SILVER	328.068	Axial	107.3856	97.01179	107.9178	117.2272
SODIUM	589.592	Radial	51.67324	46.50873	57.96136	50.54963
SODIUM	818.326	Radial	-123.872	-138.6672	-97.93471	-135.0142
STRONTIUM	421.552	Radial	16.65422	17.34553	14.74017	17.87697
SULFUR	182.034	Axial	1.824111	1.743476	2.163062	1.565797
THALLIUM	190.856	Axial	0.8206614	1.186377	0.6820215	0.5935857
TIN	189.989	Axial	0.2218949	0.04812141	0.5509336	0.06662965
TITANIUM	334.941	Radial	-3.10670	-3.823774	-1.082612	-4.413724
VANADIUM	292.402	Radial	-0.6836131	1.138525	-1.806188	-1.383176
ZINC	206.200	Axial	8.211232	8.662876	7.250298	8.720523

Sample ID: STD1 Units: mg/l
Analyzed: 03/13/25 07:57 Sequence: 3 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11170.74	11147.13	11190.58	11174.51
YTTRIUM	360.073	Axial	327177.5	325041.7	329197.4	327293.4
YTTRIUM	360.073	Radial	12647.12	12690.92	12638.32	12612.10
INDIUM	230.606	Axial	3302.528	3285.826	3315.437	3306.319

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	30.52230	31.73089	29.00251	30.83352
ANTIMONY	206.833	Axial	2.335024	2.522619	2.376930	2.105524
ARSENIC	189.042	Axial	0.3834684	0.3380825	0.9171131	-0.1047903
BARIUM	233.527	Axial	22.04511	22.13950	21.89506	22.10077
BERYLLIUM	313.042	Radial	54.57424	51.83181	57.50333	54.38757
BORON	249.678	Radial	64.15696	64.44629	63.37442	64.65016
CADMIUM	228.802	Axial	16.54738	17.65988	15.68409	16.29816
CALCIUM	317.933	Radial	831.9911	830.5579	831.0848	834.3305
CHROMIUM	267.716	Axial	107.7963	107.6111	109.6111	106.1667
COBALT	228.616	Axial	34.83051	35.32098	34.68056	34.48999
COPPER	324.754	Axial	487.1706	482.0377	484.0124	495.4618
IRON	259.940	Radial	97.70550	96.25312	98.22618	98.63719
LEAD	220.353	Axial	2.105520	2.409590	1.533828	2.373142
LITHIUM	670.784	Radial	94.37984	94.66001	90.86165	97.61786
MAGNESIUM	279.079	Radial	52.45168	51.76242	52.63158	52.96105
MANGANESE	257.610	Axial	789.6795	790.1495	789.4045	789.4845
MOLYBDENUM	202.030	Axial	5.232718	5.219323	5.731189	4.747643
NICKEL	231.604	Axial	13.33299	13.87873	13.10470	13.01556
PHOSPHORUS	177.495	Axial	10.65186	10.86323	10.55169	10.54066
POTASSIUM	766.490	Radial	272.4084	265.0014	274.1783	278.0455
SELENIUM	196.090	Axial	1.171668	2.052548	1.296908	0.1655467
SILICON	251.611	Axial	770.9182	768.7934	770.9378	773.0234
SILVER	328.068	Axial	169.8750	179.1811	168.2598	162.1842
SODIUM	589.592	Radial	1265.805	1286.470	1258.827	1252.119
STRONTIUM	421.552	Radial	442.9663	450.6245	441.7888	436.4855
SULFUR	182.034	Axial	60.85435	60.58856	61.20910	60.76539
THALLIUM	190.856	Axial	2.126710	2.275680	2.204274	1.900177
TIN	189.989	Axial	13.93623	13.87377	14.44999	13.48493
TITANIUM	334.941	Radial	206.8685	210.6578	204.2805	205.6673
VANADIUM	292.402	Radial	12.54647	11.57570	14.22101	11.84269
ZINC	206.200	Axial	99.08491	99.86016	99.65101	97.74355

Sample ID: STD2 Units: mg/l
Analyzed: 03/13/25 07:59 Sequence: 4 Standard ID: 25C13924

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11088.60	11085.86	11098.19	11081.74
YTTRIUM	360.073	Axial	319425.7	316951.8	319967.8	321357.5
YTTRIUM	360.073	Radial	12503.53	12505.87	12576.71	12428.01
INDIUM	230.606	Axial	3221.464	3223.304	3223.776	3217.312

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	201.5054	204.8774	200.2470	199.3919
ANTIMONY	206.833	Axial	21.03051	21.90698	20.42907	20.75549
ARSENIC	189.042	Axial	20.49678	21.23129	20.76941	19.48964
BARIUM	233.527	Axial	437.9008	439.5013	436.8157	437.3853
BERYLLIUM	313.042	Radial	1264.202	1259.692	1267.125	1265.789
CADMIUM	228.802	Axial	640.6308	640.1612	641.9596	639.7715
CALCIUM	317.933	Radial	7481.393	7496.977	7482.250	7464.950
CALCIUM	373.690	Radial	4723.434	4731.864	4738.083	4700.355
CHROMIUM	267.716	Axial	2047.802	2056.396	2041.313	2045.697
COBALT	228.616	Axial	773.8630	774.0312	772.6608	774.8971
COPPER	324.754	Axial	5451.963	5433.747	5429.200	5492.942
IRON	259.940	Radial	1106.807	1113.311	1108.458	1098.650
LEAD	220.353	Axial	60.33051	60.07248	61.39960	59.51945
LITHIUM	670.784	Radial	1529.811	1530.211	1529.600	1529.623
MAGNESIUM	279.079	Radial	105.7503	105.5186	106.0556	105.6768
MANGANESE	257.610	Axial	14860.68	14898.66	14809.64	14873.73
MOLYBDENUM	202.030	Axial	40.95227	40.28086	41.38926	41.18670
NICKEL	231.604	Axial	342.9863	342.1200	344.3580	342.4810
PHOSPHORUS	177.495	Axial	21.16235	21.27097	21.43405	20.78202
POTASSIUM	766.490	Radial	3243.867	3251.082	3272.833	3207.688
SELENIUM	196.090	Axial	16.34918	16.42397	16.29355	16.33003
SILICON	251.611	Axial	1559.380	1556.576	1542.114	1579.449
SILVER	328.068	Axial	1395.193	1396.467	1390.991	1398.122
SODIUM	589.592	Radial	11973.96	11986.65	12023.63	11911.60
SODIUM	818.326	Radial	582.7318	583.4928	589.2604	575.4423
STRONTIUM	421.552	Radial	8346.741	8354.770	8400.028	8285.425
THALLIUM	190.856	Axial	24.64479	23.75519	25.11966	25.05952
TIN	189.989	Axial	27.53887	27.45011	28.01080	27.15570
TITANIUM	334.941	Radial	821.4125	825.8735	822.1667	816.1973
VANADIUM	292.402	Radial	137.3775	138.0837	139.6516	134.3973
ZINC	206.200	Axial	377.9375	376.5493	379.3725	377.8907

Sample ID: STD3 Units: mg/l
Analyzed: 03/13/25 08:02 Sequence: 5 Standard ID: 25C13926

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10980.42	10958.46	10992.81	10990.00
YTTRIUM	360.073	Axial	315768.8	315149.2	316734.2	315423.0
YTTRIUM	360.073	Radial	12456.63	12488.41	12461.55	12419.95
INDIUM	230.606	Axial	3141.105	3139.925	3144.750	3138.640

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	393.4279	391.4003	399.6804	389.2032
ANTIMONY	206.833	Axial	41.43597	41.26603	41.27877	41.76311
ARSENIC	189.042	Axial	40.77854	40.46992	40.81320	41.05249
BARIUM	233.527	Axial	858.0021	859.9148	858.7128	855.3787
BERYLLIUM	313.042	Radial	2520.042	2521.647	2533.578	2504.902
BORON	249.678	Radial	123.5721	122.9433	123.4378	124.3353
CADMIUM	228.802	Axial	1268.607	1267.347	1272.672	1265.800
CALCIUM	373.690	Radial	9309.496	9321.755	9332.306	9274.427
CHROMIUM	267.716	Axial	4014.042	4010.767	4029.138	4002.220
COBALT	228.616	Axial	1524.550	1525.543	1526.283	1521.823
COPPER	324.754	Axial	10470.91	10486.05	10500.96	10425.72
IRON	259.940	Radial	2146.512	2150.324	2146.059	2143.154
LEAD	220.353	Axial	119.0363	118.3556	118.5773	120.1760
LITHIUM	670.784	Radial	3026.160	3016.941	3028.484	3033.056
MAGNESIUM	279.079	Radial	203.6490	205.2241	204.2993	201.4235
MANGANESE	257.610	Axial	28882.14	28896.75	28885.37	28864.29
MOLYBDENUM	202.030	Axial	79.49453	79.63600	79.27388	79.57371
NICKEL	231.604	Axial	675.7150	674.6587	676.6615	675.8249
PHOSPHORUS	177.495	Axial	40.35956	41.48365	40.55127	39.04375
POTASSIUM	766.490	Radial	6491.647	6486.095	6512.442	6476.404
SELENIUM	196.090	Axial	33.78447	33.93493	33.37188	34.04659
SILICON	251.611	Axial	3087.711	3082.534	3093.203	3087.395
SILVER	328.068	Axial	2651.647	2645.511	2663.943	2645.487
SODIUM	818.326	Radial	1281.188	1271.893	1295.482	1276.189
STRONTIUM	421.552	Radial	16502.36	16488.56	16567.54	16450.98
SULFUR	182.034	Axial	118.8792	119.0878	119.0550	118.4947
THALLIUM	190.856	Axial	47.22136	47.12596	47.54559	46.99252
TIN	189.989	Axial	52.78462	52.44331	53.05383	52.85672
TITANIUM	334.941	Radial	1626.372	1611.102	1641.476	1626.537
VANADIUM	292.402	Radial	275.3429	277.0000	274.8561	274.1725
ZINC	206.200	Axial	740.9633	739.4679	742.9061	740.5160

Sample ID: STD4 Units: mg/l
Analyzed: 03/13/25 08:05 Sequence: 6 Standard ID: 25C13927

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10734.69	10755.49	10711.73	10736.86
YTTRIUM	360.073	Axial	305530.9	304568.0	307781.2	304243.5
YTTRIUM	360.073	Radial	12417.45	12461.83	12362.50	12428.01
INDIUM	230.606	Axial	2997.820	3003.742	2991.057	2998.660

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	949.5517	951.4848	942.0310	955.1393
ANTIMONY	206.833	Axial	101.7049	101.2961	101.3514	102.4671
ARSENIC	189.042	Axial	100.6692	101.5173	100.5734	99.91705
BARIUM	233.527	Axial	2060.312	2062.722	2059.460	2058.754
BERYLLIUM	313.042	Radial	6228.679	6229.875	6216.559	6239.602
BORON	249.678	Radial	305.5216	304.1667	303.6308	308.7673
CADMIUM	228.802	Axial	3098.026	3102.542	3093.052	3098.484
CALCIUM	373.690	Radial	22723.99	22813.67	22653.51	22704.79
CHROMIUM	267.716	Axial	9539.123	9574.573	9514.721	9528.074
COBALT	228.616	Axial	3651.391	3652.209	3648.883	3653.082
COPPER	324.754	Axial	24829.85	24965.49	24746.71	24777.35
IRON	259.940	Radial	5189.195	5222.042	5169.948	5175.595
IRON	271.441	Radial	277.7468	277.2778	277.4454	278.5172
LEAD	220.353	Axial	286.5185	286.6694	287.6607	285.2254
LITHIUM	670.784	Radial	7502.231	7527.956	7443.375	7535.363
MAGNESIUM	279.079	Radial	500.1955	502.0278	499.6123	498.9464
MANGANESE	257.610	Axial	69098.72	69265.78	69070.64	68959.74
MOLYBDENUM	202.030	Axial	191.7592	191.5687	192.5737	191.1353
NICKEL	231.604	Axial	1623.232	1622.191	1628.995	1618.511
PHOSPHORUS	177.495	Axial	99.57153	100.2566	98.63552	99.82248
POTASSIUM	766.490	Radial	16181.41	16267.42	16055.39	16221.43
SELENIUM	196.090	Axial	82.03847	81.65517	82.31880	82.14145
SILICON	251.611	Axial	7582.422	7555.803	7598.117	7593.347
SILVER	328.068	Axial	6094.647	6117.061	6084.607	6082.274
SODIUM	818.326	Radial	3286.243	3305.035	3258.454	3295.240
STRONTIUM	421.552	Radial	40398.00	40570.61	40112.63	40510.76
SULFUR	182.034	Axial	291.5864	292.5449	291.6121	290.6021
THALLIUM	190.856	Axial	109.6756	109.8460	110.1382	109.0425
TIN	189.989	Axial	128.2177	128.2302	128.4811	127.9419
TITANIUM	334.941	Radial	3997.613	3993.333	3995.929	4003.577
VANADIUM	292.402	Radial	677.0856	681.8072	671.8831	677.5666
ZINC	206.200	Axial	1787.025	1792.383	1792.907	1775.783

Sample ID: STD5 Units: mg/l
Analyzed: 03/13/25 08:08 Sequence: 7 Standard ID: 25C13929

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10464.66	10459.32	10459.95	10474.70
YTTRIUM	360.073	Axial	298958.5	299788.8	298684.7	298402.0
YTTRIUM	360.073	Radial	12305.33	12317.65	12309.22	12289.12
INDIUM	230.606	Axial	2856.097	2855.538	2854.657	2858.096

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1895.356	1894.734	1893.927	1897.408
ANTIMONY	206.833	Axial	201.3482	200.5907	202.1765	201.2774
ARSENIC	189.042	Axial	202.0291	200.8541	202.5175	202.7155
BARIUM	233.527	Axial	4012.934	4015.118	4011.004	4012.680
BERYLLIUM	313.042	Radial	12362.77	12328.67	12403.99	12355.65
BORON	249.678	Radial	606.0533	607.0478	602.7135	608.3986
CADMIUM	228.802	Axial	6128.375	6141.994	6121.222	6121.910
CALCIUM	373.690	Radial	45099.17	45046.79	45172.33	45078.40
CHROMIUM	267.716	Axial	18587.70	18623.47	18564.35	18575.27
COBALT	228.616	Axial	7077.027	7076.060	7077.519	7077.502
COPPER	324.754	Axial	48635.03	48561.26	48925.51	48418.31
IRON	271.441	Radial	546.6210	548.6492	548.8597	542.3541
LEAD	220.353	Axial	551.8595	551.9932	550.9466	552.6388
LITHIUM	670.784	Radial	15044.63	14997.10	15082.25	15054.54
MAGNESIUM	279.079	Radial	990.0760	986.9640	988.7909	994.4731
MANGANESE	257.610	Axial	134536.8	134545.1	134443.8	134621.5
MOLYBDENUM	202.030	Axial	371.7866	370.9332	372.7677	371.6591
NICKEL	231.604	Axial	3138.563	3137.631	3132.572	3145.486
PHOSPHORUS	177.495	Axial	196.0847	196.3132	195.9989	195.9421
POTASSIUM	766.490	Radial	32640.88	32586.40	32676.24	32660.00
SELENIUM	196.090	Axial	163.9952	164.8508	163.7935	163.3412
SILICON	251.611	Axial	15077.65	14924.00	15150.37	15158.57
SILVER	328.068	Axial	11894.33	11858.99	11957.74	11866.27
SODIUM	818.326	Radial	6693.929	6686.817	6700.995	6693.975
STRONTIUM	421.552	Radial	80704.61	80512.18	80876.26	80725.41
SULFUR	182.034	Axial	585.6215	586.3465	585.6064	584.9117
THALLIUM	190.856	Axial	207.9659	209.2718	208.4943	206.1315
TIN	189.989	Axial	246.3680	244.3951	247.4530	247.2558
TITANIUM	334.941	Radial	8005.464	8012.648	8006.409	7997.334
VANADIUM	292.402	Radial	1347.731	1347.040	1345.597	1350.556
ZINC	206.200	Axial	3475.645	3463.884	3472.869	3490.183

Sample ID: STD6 Units: mg/l
Analyzed: 03/13/25 08:10 Sequence: 8 Standard ID: 25C13930

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10109.29	10117.29	10096.86	10113.72
YTTRIUM	360.073	Axial	284612.5	285488.4	283469.8	284879.4
YTTRIUM	360.073	Radial	11934.94	11854.18	11929.99	12020.63
INDIUM	230.606	Axial	2675.305	2672.847	2675.618	2677.451

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	3693.028	3672.181	3695.252	3711.652
ANTIMONY	206.833	Axial	393.6976	394.9950	393.1975	392.9005
ARSENIC	189.042	Axial	391.5409	393.4452	390.2357	390.9417
BARIUM	233.527	Axial	7581.499	7592.841	7574.898	7576.756
BERYLLIUM	313.042	Radial	23891.41	23767.14	23868.40	24038.69
BORON	249.678	Radial	1179.594	1173.141	1179.285	1186.356
CADMIUM	228.802	Axial	11919.26	11935.91	11904.02	11917.84
CALCIUM	373.690	Radial	87475.99	87128.87	87515.63	87783.47
CERIUM	535.353	Radial	2600.010	2574.530	2609.001	2616.500
CHROMIUM	267.716	Axial	35361.84	35316.01	35412.27	35357.24
COBALT	228.616	Axial	13305.42	13325.56	13291.45	13299.25
COPPER	324.754	Axial	93753.87	93475.56	94381.16	93404.89
IRON	271.441	Radial	1061.361	1063.190	1058.693	1062.202
LANTHANUM	333.749	Radial	7026.350	6985.485	7010.578	7082.987
LEAD	220.353	Axial	1038.942	1038.238	1039.941	1038.646
LITHIUM	670.784	Radial	29781.26	29536.00	29707.35	30100.43
MAGNESIUM	279.079	Radial	1929.326	1930.572	1930.840	1926.567
MANGANESE	257.610	Axial	251984.7	252547.3	252617.5	250789.1
MOLYBDENUM	202.030	Axial	711.0152	714.9627	708.9220	709.1608
NICKEL	231.604	Axial	5906.756	5913.199	5904.582	5902.486
PHOSPHORUS	177.495	Axial	384.9392	385.5891	382.2390	386.9895
POTASSIUM	766.490	Radial	64638.65	64253.34	64561.72	65100.89
SELENIUM	196.090	Axial	316.7591	314.9460	316.8592	318.4720
SILICON	251.611	Axial	29540.87	29202.25	29723.25	29697.10
SILVER	328.068	Axial	23116.62	23084.97	23203.02	23061.88
SODIUM	818.326	Radial	13233.54	13158.92	13205.32	13336.37
STRONTIUM	421.552	Radial	156636.2	155287.2	156597.6	158023.7
SULFUR	182.034	Axial	1148.693	1146.219	1147.879	1151.980
THALLIUM	190.856	Axial	386.0675	384.1198	386.0814	388.0014
TIN	189.989	Axial	469.1641	469.8048	467.8920	469.7955
TITANIUM	334.941	Radial	15539.23	15425.05	15546.89	15645.76
VANADIUM	292.402	Radial	2622.151	2605.317	2623.257	2637.879
ZINC	206.200	Axial	6571.521	6592.378	6558.362	6563.825

Sample ID: STD7 Units: mg/l
Analyzed: 03/13/25 08:13 Sequence: 9 Standard ID: 25C09297

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9513.116	9522.553	9525.577	9491.218
YTTRIUM	360.073	Axial	268171.9	268275.3	268603.6	267636.7
YTTRIUM	360.073	Radial	11729.01	11737.46	11732.21	11717.37
INDIUM	230.606	Axial	2382.521	2387.007	2383.504	2377.053

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	45724.52	45789.96	45768.21	45615.40
CALCIUM	373.690	Radial	208358.4	208738.1	208427.0	207910.0
IRON	271.441	Radial	4951.176	4962.944	4947.406	4943.177
MAGNESIUM	279.079	Radial	24728.92	24822.53	24727.76	24636.48
SODIUM	818.326	Radial	33119.78	33180.92	33121.21	33057.22
SULFUR	182.034	Axial	5584.423	5602.087	5597.602	5553.582

Sample ID: ICV-3 Units: mg/l
Analyzed: 03/13/25 08:17 Sequence: 10 Standard ID: 25C13928

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	10989.24	10995.02	10987.42	10974.18	11000.33
YTTRIUM	360.073	Axial	317210.2	320109.6	320543.4	312149.8	316037.8
YTTRIUM	360.073	Radial	12542.62	12567.12	12562.00	12577.50	12463.84
INDIUM	230.606	Axial	3146.238	3151.258	3152.497	3143.271	3137.927

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	991.5410	10.02576	10.01015	10.11065	9.971703
ANTIMONY	206.833	Axial	201.0364	0.9422874	0.9433977	0.9434093	0.9398905
ARSENIC	189.042	Axial	103.9000	0.9827878	0.9902519	0.9861177	0.9791314
BARIUM	233.527	Axial	4326.090	1.043796	1.049832	1.047035	1.042409
BERYLLIUM	313.042	Radial	31377.50	0.9986040	0.9991677	1.000816	0.9966350
BORON	249.678	Radial	311.9337	0.9990383	1.010930	0.9969094	0.9994291
CADMIUM	228.802	Axial	6288.823	0.9730315	0.9775301	0.9759136	0.9715614
CALCIUM	317.933	Radial	7502.436	9.996446	9.985602	10.03730	9.969158
CHROMIUM	267.716	Axial	10122.69	1.048729	1.045801	1.051385	1.050285
COBALT	228.616	Axial	3786.440	0.9704889	0.9761154	0.9734798	0.9688995
COPPER	324.754	Axial	26004.65	1.014782	1.019122	1.023490	1.013193
IRON	259.940	Radial	5387.093	10.24464	10.24716	10.26929	10.23319
LEAD	220.353	Axial	596.7395	0.9793258	0.9874254	0.9836084	0.9777071
LITHIUM	670.784	Radial	7853.144	1.010306	1.010738	1.015086	1.008551
MAGNESIUM	279.079	Radial	513.3335	9.706364	9.687770	9.753417	9.649946
MANGANESE	257.610	Axial	73266.05	1.061193	1.062378	1.064485	1.058640
MOLYBDENUM	202.030	Axial	800.3585	1.032953	1.035658	1.035512	1.031944
NICKEL	231.604	Axial	1696.047	0.9805668	0.9883751	0.9850129	0.9780434
PHOSPHORUS	177.495	Axial	99.62379	0.9525869	0.9619600	0.9527014	0.9520233
POTASSIUM	766.490	Radial	3296.698	9.952098	9.959041	9.962788	9.943404
SELENIUM	196.090	Axial	82.94725	0.9614637	0.9608456	0.9563595	0.9623281
SILICON	251.611	Axial	4087.110	1.019536	1.004364	1.020754	1.022875
SILVER	328.068	Axial	12426.53	0.9873888	0.9879975	0.9943715	0.9881428
SODIUM	589.592	Radial	12151.44	10.11624	10.13898	10.16121	10.10817
STRONTIUM	421.552	Radial	16890.04	0.4102434	0.4102854	0.4122381	0.4097232
SULFUR	182.034	Axial	611.9621	9.479901	9.215352	9.288588	9.514973
THALLIUM	190.856	Axial	116.8746	1.047649	1.043731	1.045963	1.067432
TIN	189.989	Axial	265.5623	1.036466	1.043403	1.045593	1.034184
TITANIUM	334.941	Radial	4135.045	1.013918	1.012411	1.018429	1.017175
VANADIUM	292.402	Radial	686.8962	0.9985534	1.000836	1.000982	0.9940145
ZINC	206.200	Axial	1822.210	1.011749	1.025509	1.018294	1.007076
CERIUM	535.353	Radial	361.2472	0.07216120	0.04736928	0.05375101	0.09887316
HOT WATER SOL. BORON	249.678	Radial	311.9337	0.9990383	1.010930	0.9969094	0.9994291
LANTHANUM	333.749	Radial	2.015678	-0.001005723	0.0007015495	0.003119721	-0.006825925

Sample ID: ICB-3 Units: mg/l
Analyzed: 03/13/25 08:34 Sequence: 11

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11148.01	11151.06	11141.83	11151.14
YTTRIUM	360.073	Axial	324264.0	325296.6	323570.9	323924.7
YTTRIUM	360.073	Radial	12577.56	12477.10	12596.69	12658.89
INDIUM	230.606	Axial	3324.517	3324.496	3323.509	3325.545

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	9.858787	-0.01629241	0.004169485	-0.03171673	-0.02132997
ANTIMONY	206.833	Axial	0.1254586	-0.001848629	-0.0007429968	-0.003171634	-0.001631256
ARSENIC	189.042	Axial	-0.5552896	0.0008989357	0.001288122	0.001236395	0.0001722897
BARIUM	233.527	Axial	-1.30123	-0.0002320136	-0.000007674538	-0.0003927160	-0.0002956503
BERYLLIUM	313.042	Radial	-8.21632	0.00004201911	0.00006161608	0.00003484420	0.00002959706
BORON	249.678	Radial	1.484964	-0.008037301	-0.003627169	-0.01003467	-0.01045006
CADMIUM	228.802	Axial	2.069158	0.00009738354	0.0002364460	0.0001590571	-0.0001033525
CALCIUM	317.933	Radial	84.44823	0.004115091	0.006079000	0.006938416	-0.0006721438
CERIUM	535.353	Radial	332.6115	-0.05153271	-0.02865017	-0.05859990	-0.06734805
CHROMIUM	267.716	Axial	3.796296	-0.00004709599	0.0006688691	-0.0005597591	-0.0002503979
COBALT	228.616	Axial	-4.71338	0.000001996109	0.0004705076	-0.0003486552	-0.0001158641
COPPER	324.754	Axial	219.4904	0.0003084417	0.0001801870	0.0001961940	0.0005489443
HOT WATER SOL. BORON	249.678	Radial	1.484964	-0.008037301	-0.003627169	-0.01003467	-0.01045006
IRON	259.940	Radial	42.13625	0.00009484786	0.0002527848	-0.0002615534	0.0002933122
LANTHANUM	333.749	Radial	4.691222	0.002578723	-0.001413487	0.001485610	0.007664046
LEAD	220.353	Axial	-0.9724588	0.0007511455	0.001130165	0.001433198	-0.0003099269
LITHIUM	670.784	Radial	-24.0678	-0.001407685	-0.001320615	-0.002225609	-0.0006768304
MAGNESIUM	279.079	Radial	1.424947	0.02365635	0.006825069	0.06110289	0.003041097
MANGANESE	257.610	Axial	17.44013	0.00002685001	0.00001423659	0.00003476485	0.00003154860
MOLYBDENUM	202.030	Axial	0.8730960	-0.000006463233	0.0005763161	0.0003248820	-0.0009205877
NICKEL	231.604	Axial	-5.24241	0.0001793407	-0.00006136082	0.0005379108	0.00006147207
PHOSPHORUS	177.495	Axial	0.1120106	-0.005054516	-0.0004240263	-0.009793748	-0.004945773
POTASSIUM	766.490	Radial	-65.3233	0.008853854	0.01707328	-0.005241034	0.01472932
SELENIUM	196.090	Axial	0.7510537	0.003421926	0.001811533	0.001297374	0.007156871
SILICON	251.611	Axial	20.96001	0.001086670	-0.001319978	0.002507685	0.002072305
SILVER	328.068	Axial	100.0647	-0.0005324745	-0.0009286115	0.0001832190	-0.0008520310
SODIUM	589.592	Radial	45.98149	-0.004443928	-0.01638085	-0.001167203	0.004216270
STRONTIUM	421.552	Radial	16.70991	0.000005098043	0.0001144036	-0.00006176238	-0.00003734709
SULFUR	182.034	Axial	1.905408	0.001397805	0.01111050	-0.002938094	-0.003978990
THALLIUM	190.856	Axial	0.6556015	-0.001422969	0.003009091	-0.004844925	-0.002433073
TIN	189.989	Axial	0.1752866	-0.0001734823	-0.001631779	0.001732291	-0.0006209591
TITANIUM	334.941	Radial	-1.02691	0.0004981974	-0.00002689611	0.00002100834	0.001500480
VANADIUM	292.402	Radial	-0.4714948	0.0003023682	0.001653105	0.001398616	-0.002144617
ZINC	206.200	Axial	6.531708	-0.0008991743	-0.001398594	-0.0001184480	-0.001180480

Sample ID: ICVLL-3 Units: mg/l
Analyzed: 03/13/25 08:42 Sequence: 14 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11181.14	11170.37	11172.99	11200.07
YTTRIUM	360.073	Axial	326211.3	328810.9	323826.1	325997.0
YTTRIUM	360.073	Radial	12550.50	12535.14	12520.86	12595.51
INDIUM	230.606	Axial	3315.293	3324.398	3306.822	3314.661

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	34.73676	0.2382022	0.2364133	0.2538717	0.2243216
ANTIMONY	206.833	Axial	2.363532	0.008486264	0.006341176	0.01025120	0.008866420
ARSENIC	189.042	Axial	0.5506296	0.01112877	0.009604026	0.008581982	0.01520030
BARIUM	233.527	Axial	22.62043	0.005441027	0.005250664	0.005356550	0.005715867
BERYLLIUM	313.042	Radial	55.07625	0.002053914	0.002075935	0.002084888	0.002000919
BORON	249.678	Radial	66.16317	0.2016307	0.1953846	0.2017458	0.2077617
CADMIUM	228.802	Axial	15.15737	0.002087075	0.002114039	0.001928939	0.002218246
CALCIUM	317.933	Radial	821.1415	0.9960711	0.9987965	1.005938	0.9834786
CHROMIUM	267.716	Axial	110.2222	0.01079324	0.01064244	0.01118636	0.01055093
COBALT	228.616	Axial	34.61411	0.009553317	0.009800472	0.009572223	0.009287256
COPPER	324.754	Axial	491.4240	0.01079713	0.01072930	0.01091173	0.01075035
IRON	259.940	Radial	98.05181	0.1073742	0.1087824	0.1079105	0.1054297
LEAD	220.353	Axial	2.261783	0.005777003	0.002765207	0.007911077	0.006654726
LITHIUM	670.784	Radial	98.22040	0.01428389	0.01514148	0.01398547	0.01372472
MAGNESIUM	279.079	Radial	53.85942	1.014870	1.025824	0.9977144	1.021073
MANGANESE	257.610	Axial	801.1579	0.01118510	0.01120657	0.01119375	0.01115497
MOLYBDENUM	202.030	Axial	4.997775	0.005227644	0.005393195	0.004846014	0.005443724
NICKEL	231.604	Axial	12.37967	0.009810832	0.009591485	0.01039770	0.009443308
PHOSPHORUS	177.495	Axial	10.55199	0.09368284	0.09620304	0.08756046	0.09728502
POTASSIUM	766.490	Radial	264.6821	0.9838818	0.9419863	1.027585	0.9820739
SELENIUM	196.090	Axial	1.245768	0.009063138	0.004704622	0.01349423	0.008990557
SILICON	251.611	Axial	763.5395	0.1838582	0.1822584	0.1844639	0.1848524
SILVER	328.068	Axial	175.3056	0.005369757	0.005613932	0.004819782	0.005675557
SODIUM	589.592	Radial	1278.697	1.025653	1.025827	1.030885	1.020247
STRONTIUM	421.552	Radial	452.1263	0.01058538	0.01074777	0.01056965	0.01043873
SULFUR	182.034	Axial	61.14702	0.9059231	0.9254447	0.8851732	0.9071515
THALLIUM	190.856	Axial	2.175230	0.01187856	0.01422385	0.01159145	0.009820380
TIN	189.989	Axial	13.81311	0.05218001	0.05018868	0.05395955	0.05239181
TITANIUM	334.941	Radial	207.0105	0.05144316	0.05111303	0.05191471	0.05130174
VANADIUM	292.402	Radial	10.57439	0.01631884	0.01751567	0.01255356	0.01888729
ZINC	206.200	Axial	98.05581	0.04925689	0.04920991	0.04981288	0.04874789
CERIUM	535.353	Radial	348.8755	0.01945699	0.04562642	0.01846127	-0.005716713
HOT WATER SOL. BORON	249.678	Radial	66.16317	0.2016307	0.1953846	0.2017458	0.2077617
LANTHANUM	333.749	Radial	2.192871	-0.0007623782	0.001679690	0.0006696083	-0.004636433

Sample ID: ICSA-3 Units: mg/l
Analyzed: 03/13/25 08:45 Sequence: 15 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9636.448	9628.086	9641.301	9639.958
YTTRIUM	360.073	Axial	274150.1	273063.2	274779.5	274607.5
YTTRIUM	360.073	Radial	11797.72	11842.25	11840.15	11710.76
INDIUM	230.606	Axial	2489.355	2492.486	2494.238	2481.343

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	46776.43	508.5792	508.8847	508.8674	507.9855
ANTIMONY	206.833	Axial	-0.4260286	-0.004712001	-0.003560192	-0.004893449	-0.005682363
ARSENIC	189.042	Axial	-1.10381	-0.005792129	-0.01402587	-0.006616164	0.003265651
BARIUM	233.527	Axial	7.355755	0.002101114	0.001681713	0.002128375	0.002493255
BERYLLIUM	313.042	Radial	-13.1786	-0.0001429453	-0.0002463687	-0.00009192596	-0.00009054129
BORON	249.678	Radial	-3.54104	-0.02507207	-0.02316674	-0.02688909	-0.02516037
CADMIUM	228.802	Axial	7.499974	0.001105337	0.001131414	0.001240206	0.0009443893
CALCIUM	373.690	Radial	212718.8	504.7244	504.4973	504.1338	505.5421
CERIUM	535.353	Radial	315.5948	-0.03537677	-0.05261518	-0.07329552	0.01978038
CHROMIUM	267.716	Axial	-21.5108	-0.002977348	-0.003128307	-0.003046045	-0.002757691
COBALT	228.616	Axial	0.2033915	0.001209249	0.001517745	0.001249858	0.0008601425
COPPER	324.754	Axial	-125.687	-0.01384132	-0.01364539	-0.01403966	-0.01383890
HOT WATER SOL. BORON	249.678	Radial	-3.54104	-0.02507207	-0.02316674	-0.02688909	-0.02516037
IRON	271.441	Radial	4987.189	199.7435	199.3164	199.5789	200.3352
LANTHANUM	333.749	Radial	-4.99935	-0.01093232	-0.01396169	-0.009597291	-0.009237973
LEAD	220.353	Axial	-5.39314	-0.008900102	-0.009012509	-0.01041232	-0.007275473
LITHIUM	670.784	Radial	-5.26750	0.0009581725	0.001743127	-0.0002679187	0.001399309
MAGNESIUM	279.079	Radial	25207.47	506.8968	506.2758	505.5816	508.8329
MANGANESE	257.610	Axial	112.1682	0.001630883	0.001576570	0.001651946	0.001664132
MOLYBDENUM	202.030	Axial	0.6886258	-0.0001039387	0.00001737262	0.001192259	-0.001521447
NICKEL	231.604	Axial	-17.1071	-0.009421016	-0.01025318	-0.009830222	-0.008179647
PHOSPHORUS	177.495	Axial	1.326423	0.008440357	0.006558925	-0.002844411	0.02160656
POTASSIUM	766.490	Radial	-71.7665	-0.02413408	-0.05615029	0.001800898	-0.01805284
SELENIUM	196.090	Axial	0.3917994	-0.000002577646	-0.009754002	-0.0003425868	0.01008886
SILICON	251.611	Axial	-82.8175	-0.02774185	-0.02740061	-0.02785833	-0.02796661
SILVER	328.068	Axial	80.82027	-0.001051698	-0.001705897	-0.001380621	-0.00006857471
SODIUM	589.592	Radial	74.47309	0.02347080	0.01409121	0.03176479	0.02455642
STRONTIUM	421.552	Radial	255.3097	0.006198191	0.006156709	0.006406421	0.006031442
SULFUR	182.034	Axial	-8.52515	-0.1788250	-0.1721917	-0.1758299	-0.1884535
THALLIUM	190.856	Axial	-0.4214962	-0.01159576	-0.006937048	-0.01331638	-0.01453384
TIN	189.989	Axial	-1.51840	-0.007612868	-0.008278642	-0.007192522	-0.007367439
TITANIUM	334.941	Radial	-55.9633	-0.01382504	-0.01546715	-0.01230987	-0.01369811
VANADIUM	292.402	Radial	-4.53963	-0.006042197	-0.002109109	-0.007317879	-0.008699605
ZINC	206.200	Axial	12.23115	0.003288463	0.002885818	0.003341095	0.003638476

Sample ID: ICSAB-3 Units: mg/l
Analyzed: 03/13/25 08:48 Sequence: 16 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9645.490	9642.854	9616.382	9677.234
YTTRIUM	360.073	Axial	275325.5	275592.6	274714.3	275669.6
YTTRIUM	360.073	Radial	11887.19	11920.25	11878.18	11863.14
INDIUM	230.606	Axial	2486.230	2492.669	2472.301	2493.721

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	47874.37	516.6040	515.8881	517.1388	516.7849
ANTIMONY	206.833	Axial	93.54599	0.4984244	0.5050786	0.5030232	0.4871714
ARSENIC	189.042	Axial	46.47029	0.5037884	0.5102202	0.5122836	0.4888612
BARIUM	233.527	Axial	1867.736	0.5134670	0.5136655	0.5137894	0.5129462
BERYLLIUM	313.042	Radial	15033.83	0.5049913	0.5039231	0.5057014	0.5053496
BORON	249.678	Radial	292.0139	0.9866664	0.9859119	0.9994736	0.9746137
CADMIUM	228.802	Axial	5909.864	1.041803	1.043678	1.041846	1.039885
CALCIUM	373.690	Radial	217906.2	513.1400	512.4741	513.2219	513.7241
CERIUM	535.353	Radial	309.4557	-0.07318607	-0.1355298	-0.04615905	-0.03786932
CHROMIUM	267.716	Axial	4201.882	0.4957426	0.4958362	0.4971818	0.4942098
COBALT	228.616	Axial	1541.508	0.5005466	0.4999646	0.5020059	0.4996693
COPPER	324.754	Axial	11956.74	0.5276830	0.5280450	0.5267563	0.5282477
HOT WATER SOL. BORON	249.678	Radial	292.0139	0.9866664	0.9859119	0.9994736	0.9746137
IRON	271.441	Radial	5118.669	203.4645	203.1062	202.8730	204.4144
LANTHANUM	333.749	Radial	-6.03525	-0.01236836	-0.01026838	-0.01302583	-0.01381089
LEAD	220.353	Axial	466.8922	0.9696765	0.9665827	0.9713316	0.9711151
LITHIUM	670.784	Radial	-12.8290	-0.00006475300	0.001152824	0.0001511469	-0.001498229
MAGNESIUM	279.079	Radial	25898.64	516.8698	516.0229	516.7407	517.8458
MANGANESE	257.610	Axial	30776.48	0.5077575	0.5081601	0.5082801	0.5068324
MOLYBDENUM	202.030	Axial	339.5223	0.4986634	0.4987567	0.5004125	0.4968209
NICKEL	231.604	Axial	1331.772	0.9744007	0.9728865	0.9775892	0.9727262
PHOSPHORUS	177.495	Axial	1.413355	0.009401956	0.003100627	0.02336606	0.001739176
POTASSIUM	766.490	Radial	-47.2679	0.05399752	0.04407815	0.08513245	0.03278195
SELENIUM	196.090	Axial	40.51488	0.5327401	0.5410360	0.5305675	0.5266169
SILICON	251.611	Axial	3401.790	0.9665964	0.9633991	0.9721779	0.9642122
SILVER	328.068	Axial	10149.32	0.9181975	0.9048964	0.9216008	0.9280954
SODIUM	589.592	Radial	146.6575	0.08665133	0.08003801	0.09578508	0.08413088
STRONTIUM	421.552	Radial	261.2584	0.006301611	0.006412411	0.006167007	0.006325416
SULFUR	182.034	Axial	-8.86917	-0.1847989	-0.1857438	-0.1953638	-0.1732891
THALLIUM	190.856	Axial	44.49287	0.4554221	0.4497553	0.4554639	0.4610473
TIN	189.989	Axial	107.1990	0.4762115	0.4764723	0.4742238	0.4779384
TITANIUM	334.941	Radial	1887.671	0.4887735	0.4903566	0.4891143	0.4868495
VANADIUM	292.402	Radial	310.9814	0.4775126	0.4789674	0.4786815	0.4748890
ZINC	206.200	Axial	1534.468	0.9705040	0.9711646	0.9740568	0.9662906

Sample ID: CCV-2 Units: mg/l
Analyzed: 03/14/25 01:02 Sequence: 290 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10561.74	10549.18	10575.47	10560.58
YTTRIUM	360.073	Axial	302985.6	304680.5	303461.8	300814.5
YTTRIUM	360.073	Radial	12204.82	12239.25	12160.41	12214.81
INDIUM	230.606	Axial	2993.191	2996.298	2993.584	2989.691

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	929.6960	9.656344	9.691274	9.663130	9.614628
ANTIMONY	206.833	Axial	100.5078	0.4890026	0.4925313	0.4805784	0.4938982
ARSENIC	189.042	Axial	100.5539	0.9895986	1.000244	0.9856695	0.9828820
BARIUM	233.527	Axial	2037.993	0.5116688	0.5140212	0.5110352	0.5099500
BERYLLIUM	313.042	Radial	6125.690	0.2005915	0.2002903	0.2008847	0.2005995
BORON	249.678	Radial	290.4746	0.9555303	0.9541331	0.9578862	0.9545716
CADMIUM	228.802	Axial	3058.496	0.4922688	0.4929804	0.4922440	0.4915819
CALCIUM	373.690	Radial	22665.18	51.93679	51.96297	52.08299	51.76441
CHROMIUM	267.716	Axial	9562.301	1.030764	1.035377	1.028505	1.028411
COBALT	228.616	Axial	3617.226	0.9745266	0.9765740	0.9736762	0.9733295
COPPER	324.754	Axial	24739.98	1.004427	1.009447	0.9973189	1.006516
IRON	259.940	Radial	5037.278	9.841443	9.816887	9.850432	9.857009
LEAD	220.353	Axial	281.1016	0.4860573	0.4862345	0.4878586	0.4840787
LITHIUM	670.784	Radial	7661.720	1.012966	1.013325	1.015237	1.010335
MAGNESIUM	279.079	Radial	485.2303	9.428709	9.420366	9.399664	9.466097
MANGANESE	257.610	Axial	67848.72	1.022499	1.025976	1.020249	1.021272
MOLYBDENUM	202.030	Axial	188.2803	0.2519880	0.2526364	0.2512569	0.2520707
NICKEL	231.604	Axial	1600.813	0.9728669	0.9726220	0.9729913	0.9729873
PHOSPHORUS	177.495	Axial	97.42902	0.9694153	0.9699687	0.9680185	0.9702587
POTASSIUM	766.490	Radial	16234.50	49.54719	49.53060	49.63253	49.47845
SELENIUM	196.090	Axial	81.75528	0.9861391	0.9929211	0.9883687	0.9771276
SILICON	251.611	Axial	7748.139	2.014991	2.002378	2.003575	2.039021
SILVER	328.068	Axial	6308.406	0.5175629	0.5204436	0.5151643	0.5170808
SODIUM	818.326	Radial	3367.904	50.55639	50.51387	50.49205	50.66325
STRONTIUM	421.552	Radial	40476.54	1.010946	1.008763	1.013532	1.010542
SULFUR	182.034	Axial	289.7933	4.656836	4.673914	4.651738	4.644857
THALLIUM	190.856	Axial	108.4770	1.017757	1.018968	1.011610	1.022694
TIN	189.989	Axial	126.1623	0.5118990	0.5104624	0.5126782	0.5125564
TITANIUM	334.941	Radial	3935.213	0.9916502	0.9941074	0.9900859	0.9907572
VANADIUM	292.402	Radial	655.5438	0.9793802	0.9733291	0.9840310	0.9807805
ZINC	206.200	Axial	1769.088	1.022055	1.021586	1.024414	1.020164
CERIUM	535.353	Radial	346.5486	0.05070341	0.06506080	0.02495605	0.06209337
HOT WATER SOL. BORON	249.678	Radial	290.4746	0.9555303	0.9541331	0.9578862	0.9545716
LANTHANUM	333.749	Radial	3.715914	0.001434628	0.0004269439	0.0004407148	0.003436225

Sample ID: CCB-2 Units: mg/l
Analyzed: 03/14/25 01:05 Sequence: 291

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10932.50	10948.81	10926.89	10921.81
YTTRIUM	360.073	Axial	320658.6	321313.7	319856.1	320805.9
YTTRIUM	360.073	Radial	12358.08	12362.70	12400.77	12310.77
INDIUM	230.606	Axial	3311.940	3318.556	3316.913	3300.351

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	11.86067	0.006194900	-0.04138798	0.03741266	0.02256002
ANTIMONY	206.833	Axial	0.2817316	-0.001097700	-0.001923084	-0.002733000	0.001362986
ARSENIC	189.042	Axial	-0.3508184	0.002727514	0.005837153	-0.0005198324	0.002865221
BARIUM	233.527	Axial	2.380297	0.0006551792	0.0001657734	0.0004950282	0.001304736
BERYLLIUM	313.042	Radial	-12.2280	-0.00009216032	0.00007282416	-0.0002177467	-0.0001315584
BORON	249.678	Radial	2.232221	-0.005520371	-0.005460021	-0.001129131	-0.009971961
CADMIUM	228.802	Axial	6.097870	0.0007309511	-0.00001851109	0.0005233009	0.001688064
CALCIUM	317.933	Radial	80.14838	0.0002290369	0.001343816	0.002953231	-0.003609936
CERIUM	535.353	Radial	335.8292	-0.01324637	-0.02230609	-0.02725018	0.009817152
CHROMIUM	267.716	Axial	5.037037	0.00008946796	0.0007065950	-0.00004972259	-0.0003884685
COBALT	228.616	Axial	1.514013	0.001514845	0.0007614965	0.0007407520	0.003042287
COPPER	324.754	Axial	215.7290	0.0003273495	0.0005030708	0.0005040354	-0.00002505764
HOT WATER SOL. BORON	249.678	Radial	2.232221	-0.005520371	-0.005460021	-0.001129131	-0.009971961
IRON	259.940	Radial	44.33128	0.005797130	0.005047262	0.005301920	0.007042209
LANTHANUM	333.749	Radial	5.171760	0.003370538	0.002384706	0.004976996	0.002749912
LEAD	220.353	Axial	-0.4921858	0.001491912	0.0004639672	0.002844079	0.001167691
LITHIUM	670.784	Radial	-4.73358	0.001057583	-0.000002964899	0.002178442	0.0009972725
MAGNESIUM	279.079	Radial	2.597102	0.04663984	0.02342870	0.06625160	0.05023923
MANGANESE	257.610	Axial	39.13093	0.0003477064	0.0002495590	0.0003510744	0.0004424858
MOLYBDENUM	202.030	Axial	0.3206123	-0.0007020779	-0.0007537220	-0.0009261449	-0.0004263668
NICKEL	231.604	Axial	-2.51991	0.001662253	-0.00004368644	0.001631812	0.003398633
PHOSPHORUS	177.495	Axial	1.418409	0.007606003	0.005479792	0.01076931	0.006568907
POTASSIUM	766.490	Radial	-68.1784	-0.003168157	-0.009702045	0.006101432	-0.005903857
SELENIUM	196.090	Axial	0.1885120	-0.003001863	0.003496766	-0.008076072	-0.004426283
SILICON	251.611	Axial	78.60074	0.01570061	0.01441460	0.01492889	0.01775833
SILVER	328.068	Axial	102.6235	-0.0001708179	0.00001017047	-0.0005944980	0.00007187375
SODIUM	589.592	Radial	61.02606	0.009052683	0.008299235	0.01031613	0.008542688
STRONTIUM	421.552	Radial	16.42712	0.000005285260	-0.00008827106	-0.00009991776	0.0002040446
SULFUR	182.034	Axial	1.894418	0.001797735	0.01031443	-0.01199277	0.007071549
THALLIUM	190.856	Axial	0.5343992	-0.002432006	-0.006156888	-0.003962644	0.002823515
TIN	189.989	Axial	0.6091643	0.001543966	0.0002539973	0.001259574	0.003118326
TITANIUM	334.941	Radial	-2.02380	0.0002496889	0.0005661467	-0.0001541436	0.0003370637
VANADIUM	292.402	Radial	-3.37176	-0.003992304	-0.004123175	-0.004207112	-0.003646625
ZINC	206.200	Axial	6.781385	-0.0006877118	-0.001689006	-0.001348739	0.0009746095

Sample ID: ICSA-2 Units: mg/l
Analyzed: 03/14/25 01:08 Sequence: 292 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9418.475	9416.565	9417.900	9420.961
YTTRIUM	360.073	Axial	268359.4	268871.6	267866.1	268340.4
YTTRIUM	360.073	Radial	11610.31	11576.96	11645.81	11608.14
INDIUM	230.606	Axial	2476.577	2474.073	2477.927	2477.732

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	45499.16	502.6759	501.8684	504.2269	501.9324
ANTIMONY	206.833	Axial	-0.4676077	-0.004993772	-0.01049804	-0.001487000	-0.002996277
ARSENIC	189.042	Axial	-0.6369671	-0.0009426708	-0.001373440	-0.006642009	0.005187437
BARIUM	233.527	Axial	8.138944	0.002368554	0.002290710	0.002150903	0.002664050
BERYLLIUM	313.042	Radial	-12.0506	-0.0001115341	-0.0001170784	-0.0001480972	-0.00006942673
BORON	249.678	Radial	-3.47990	-0.02507488	-0.03009332	-0.01038680	-0.03474453
CADMIUM	228.802	Axial	8.376230	0.001294137	0.0009877468	0.001250234	0.001644429
CALCIUM	373.690	Radial	211235.5	509.2917	508.5200	509.8315	509.5237
CERIUM	535.353	Radial	305.9748	-0.05639532	-0.02835948	-0.05213971	-0.08868675
CHROMIUM	267.716	Axial	-25.2290	-0.003485695	-0.003545767	-0.002762862	-0.004148456
COBALT	228.616	Axial	0.9897482	0.001466193	0.002120106	0.001268826	0.001009646
COPPER	324.754	Axial	-130.464	-0.01419124	-0.01441029	-0.01436978	-0.01379366
HOT WATER SOL. BORON	249.678	Radial	-3.47990	-0.02507488	-0.03009332	-0.01038680	-0.03474453
IRON	271.441	Radial	4781.193	194.5824	194.3869	194.7629	194.5975
LANTHANUM	333.749	Radial	-5.99248	-0.01250158	-0.007763730	-0.01491330	-0.01482770
LEAD	220.353	Axial	-3.51935	-0.005064674	-0.008761676	-0.001995648	-0.004436698
LITHIUM	670.784	Radial	18.08493	0.004186245	0.005095262	0.003941409	0.003522064
MAGNESIUM	279.079	Radial	24442.93	499.4492	498.4284	499.2416	500.6775
MANGANESE	257.610	Axial	122.2481	0.001844179	0.001869323	0.001839002	0.001824214
MOLYBDENUM	202.030	Axial	2.513303	0.002670129	0.001405332	0.003618585	0.002986472
NICKEL	231.604	Axial	-17.3231	-0.009645714	-0.01021822	-0.009485406	-0.009233515
PHOSPHORUS	177.495	Axial	0.8420326	0.003338150	-0.001266738	0.004950396	0.006330791
POTASSIUM	766.490	Radial	-55.5965	0.02395000	0.06426195	-0.02098665	0.02857469
SELENIUM	196.090	Axial	0.6506565	0.003641426	-0.004360473	0.01203644	0.003248307
SILICON	251.611	Axial	-49.7270	-0.01862005	-0.02035979	-0.01946155	-0.01603883
SILVER	328.068	Axial	86.36964	-0.0003615901	-0.0002513788	-0.00009553657	-0.0007378548
SODIUM	589.592	Radial	112.2664	0.05867292	0.06447212	0.05963061	0.05191603
STRONTIUM	421.552	Radial	249.5456	0.006154095	0.006240966	0.006070999	0.006150320
SULFUR	182.034	Axial	-8.34341	-0.1790241	-0.1409899	-0.1912366	-0.2048459
THALLIUM	190.856	Axial	-1.04538	-0.01835670	-0.01977058	-0.02242948	-0.01287004
TIN	189.989	Axial	-0.7534940	-0.004283265	-0.004613476	-0.006072123	-0.002164195
TITANIUM	334.941	Radial	-59.7996	-0.01507298	-0.01332366	-0.01677877	-0.01511652
VANADIUM	292.402	Radial	-5.03273	-0.006921306	-0.007776192	-0.005530876	-0.007456849
ZINC	206.200	Axial	26.49454	0.01274990	0.01253657	0.01295410	0.01275903

Sample ID: ICSAB-2 Units: mg/l
Analyzed: 03/14/25 01:11 Sequence: 293 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9476.591	9472.695	9481.232	9475.846
YTTRIUM	360.073	Axial	267074.3	267220.6	267443.3	266559.1
YTTRIUM	360.073	Radial	11650.91	11652.82	11667.51	11632.39
INDIUM	230.606	Axial	2481.173	2476.608	2485.290	2481.622

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	46438.86	511.2752	511.0572	510.2851	512.4833
ANTIMONY	206.833	Axial	91.65238	0.4970144	0.4966405	0.4959066	0.4984960
ARSENIC	189.042	Axial	46.41135	0.5119861	0.4988737	0.5300627	0.5070218
BARIUM	233.527	Axial	1830.465	0.5121889	0.5130267	0.5121879	0.5113520
BERYLLIUM	313.042	Radial	14453.66	0.4953547	0.4962302	0.4937388	0.4960949
BORON	249.678	Radial	278.8996	0.9611313	0.9637713	0.9701478	0.9494747
CADMIUM	228.802	Axial	5794.391	1.039649	1.041637	1.040522	1.036788
CALCIUM	373.690	Radial	215618.7	518.0503	519.1376	517.1185	517.8950
CERIUM	535.353	Radial	308.0904	-0.05168461	-0.01450723	-0.09166780	-0.04887881
CHROMIUM	267.716	Axial	4154.244	0.4988567	0.4968478	0.4999551	0.4997671
COBALT	228.616	Axial	1504.225	0.4894589	0.4914140	0.4888029	0.4881597
COPPER	324.754	Axial	11810.41	0.5305597	0.5286905	0.5321552	0.5308333
HOT WATER SOL. BORON	249.678	Radial	278.8996	0.9611313	0.9637713	0.9701478	0.9494747
IRON	271.441	Radial	4887.711	198.2241	198.7429	197.8444	198.0850
LANTHANUM	333.749	Radial	-5.03976	-0.01109071	-0.01491402	-0.006526237	-0.01183188
LEAD	220.353	Axial	463.3803	0.9643535	0.9664949	0.9649461	0.9616195
LITHIUM	670.784	Radial	8.281404	0.002820858	0.005623739	0.001246048	0.001592788
MAGNESIUM	279.079	Radial	25061.90	510.3132	510.7280	509.6052	510.6063
MANGANESE	257.610	Axial	29773.73	0.4999635	0.4989524	0.5005639	0.5003740
MOLYBDENUM	202.030	Axial	330.2873	0.4937309	0.4959942	0.4940943	0.4911044
NICKEL	231.604	Axial	1317.500	0.9659412	0.9666526	0.9658228	0.9653481
PHOSPHORUS	177.495	Axial	2.182474	0.01823898	0.02492997	0.02256527	0.007221700
POTASSIUM	766.490	Radial	-45.5506	0.05644579	0.07438482	0.07129828	0.02365428
SELENIUM	196.090	Axial	37.88138	0.5067291	0.4979984	0.5198232	0.5023658
SILICON	251.611	Axial	3392.729	0.9812571	0.9817193	0.9817302	0.9803218
SILVER	328.068	Axial	10143.92	0.9342268	0.9663321	0.9169925	0.9193558
SODIUM	589.592	Radial	102.5538	0.04957443	0.04576869	0.05108211	0.05187250
STRONTIUM	421.552	Radial	254.6024	0.006263637	0.006391158	0.005992623	0.006407132
SULFUR	182.034	Axial	-8.54551	-0.1817411	-0.1715655	-0.1824763	-0.1911813
THALLIUM	190.856	Axial	44.08301	0.4653276	0.4672501	0.4589305	0.4698021
TIN	189.989	Axial	104.0396	0.4704069	0.4726748	0.4732937	0.4652522
TITANIUM	334.941	Radial	1824.019	0.4818879	0.4805845	0.4780688	0.4870105
VANADIUM	292.402	Radial	299.9216	0.4698878	0.4692475	0.4708099	0.4696060
ZINC	206.200	Axial	1472.609	0.9478684	0.9534271	0.9463786	0.9437994

Sample ID: BLANK DF: 1x Batch: WG2468756 Units: mg/l
Analyzed: 03/14/25 01:30 Sequence: 296

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11231.66	11205.67	11244.74	11244.55
YTTRIUM	360.073	Axial	328173.8	329023.0	330009.0	325489.5
YTTRIUM	360.073	Radial	12743.62	12726.14	12720.76	12783.95
INDIUM	230.606	Axial	3357.823	3349.806	3358.542	3365.123

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.4626184	0.001786288	-0.001040345	0.0006848912	0.005714318
BARIUM	233.527	Axial	0.003747965	0.00007848566	0.0001675119	0.00001571290	0.00005223213
BORON	249.678	Radial	3.632039	-0.001255926	-0.002476760	0.003877672	-0.005168691
CADMIUM	228.802	Axial	0.6625975	-0.0001180848	-0.0002228325	-0.00009549002	-0.00003593193
CALCIUM	317.933	Radial	82.32530	-0.0001929960	-0.002074986	0.0007181589	0.0007778389
CHROMIUM	267.716	Axial	8.518519	0.0004290908	0.0004856149	0.0005105531	0.0002911043
COBALT	228.616	Axial	-4.18138	0.0001408078	-0.00008608598	0.0004366993	0.00007181006
COPPER	324.754	Axial	225.7974	0.0004878976	0.0005395284	0.0006499277	0.0002742366
IRON	259.940	Radial	49.72019	0.01335089	0.01330121	0.01295022	0.01380125
LEAD	220.353	Axial	-0.6684993	0.001231579	0.001334890	-0.00002849528	0.002388343
LITHIUM	670.784	Radial	2.592793	0.002003277	0.0007968325	0.002895973	0.002317024
MAGNESIUM	279.079	Radial	0.9069388	0.01366330	0.01852898	-0.002169038	0.02462995
SELENIUM	196.090	Axial	0.4770006	0.0002295748	-0.003057772	0.001239317	0.002507180
SILVER	328.068	Axial	110.3148	0.0002118987	0.000004358674	-0.0001021951	0.0007335324
ALUMINUM	308.215	Radial	13.03404	0.01425286	-0.004830485	0.008018613	0.03957044
ANTIMONY	206.833	Axial	-0.007668508	-0.002464101	-0.001964999	-0.003904649	-0.001522655
BERYLLIUM	313.042	Radial	-12.4013	-0.00008560820	-0.0001007660	-0.000006132780	-0.0001499259
MANGANESE	257.610	Axial	26.85094	0.0001583825	0.0001551749	0.0001473418	0.0001726309
MOLYBDENUM	202.030	Axial	1.112962	0.0002886542	0.0005230266	-0.00005289152	0.0003958276
NICKEL	231.604	Axial	-4.33595	0.0006973602	0.0008106633	0.0007015823	0.0005798349
PHOSPHORUS	177.495	Axial	0.8933137	0.002298144	0.004795089	0.0002665741	0.001832770
POTASSIUM	766.490	Radial	-49.4904	0.05751670	0.06404802	0.09888852	0.009613547
SILICON	251.611	Axial	38.84783	0.005428674	0.003347683	0.006934775	0.006003565
SODIUM	589.592	Radial	68.09766	0.01330784	0.01562380	0.01170316	0.01259658
STRONTIUM	421.552	Radial	3.722207	-0.0003114037	-0.0001537174	-0.0004661620	-0.0003143318
SULFUR	182.034	Axial	1.617620	-0.003198380	-0.007817228	-0.004177137	0.002399224
THALLIUM	190.856	Axial	1.173793	0.003049057	-0.002360286	0.004416466	0.007090992
TIN	189.989	Axial	0.06909742	-0.0005846246	-0.0003810134	-0.002163076	0.0007902162
TITANIUM	334.941	Radial	-1.02352	0.0005041181	0.0001291060	-0.00005019508	0.001433443
VANADIUM	292.402	Radial	-0.9750554	-0.0004161943	0.0004892977	-0.0008585874	-0.0008792931
ZINC	206.200	Axial	3.671681	-0.002487434	-0.003095866	-0.002203803	-0.002162632
CERIUM	535.353	Radial	343.1844	-0.02625933	-0.04310595	-0.07240014	0.03672810
LANTHANUM	333.749	Radial	4.572731	0.002369164	0.003766315	0.007134647	-0.003793470

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2468756 Units: mg/l
Analyzed: 03/14/25 01:33 Sequence: 297

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10988.13	10988.79	11007.64	10967.97
YTTRIUM	360.073	Axial	312465.5	314486.5	311904.8	311005.0
YTTRIUM	360.073	Radial	12542.08	12536.05	12528.13	12562.05
INDIUM	230.606	Axial	3194.725	3201.709	3197.241	3185.224

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	107.9461	1.020930	1.018406	1.019602	1.024780
BARIUM	233.527	Axial	4402.737	1.062395	1.063309	1.061035	1.062841
BORON	249.678	Radial	298.8074	0.9565224	0.9692336	0.9506473	0.9496862
CADMIUM	228.802	Axial	6520.609	1.009005	1.009973	1.007278	1.009763
CALCIUM	317.933	Radial	7488.275	9.977827	9.988125	10.00260	9.942760
CHROMIUM	267.716	Axial	10245.33	1.061551	1.057348	1.059557	1.067747
COBALT	228.616	Axial	3884.896	0.9806151	0.9768297	0.9807918	0.9842238
COPPER	324.754	Axial	26463.65	1.032945	1.029795	1.031021	1.038019
IRON	259.940	Radial	5295.771	10.07010	10.08210	10.08931	10.03888
LEAD	220.353	Axial	616.8073	0.9968761	0.9917129	0.9983015	1.000614
LITHIUM	670.784	Radial	8071.814	1.038443	1.034948	1.041954	1.038429
MAGNESIUM	279.079	Radial	508.7240	9.619538	9.647605	9.624507	9.586502
SELENIUM	196.090	Axial	88.66862	1.028241	1.035322	1.028434	1.020966
SILVER	328.068	Axial	2626.857	0.2020931	0.2033939	0.2004732	0.2024122
ALUMINUM	308.215	Radial	988.1774	9.991837	9.978888	10.04167	9.954956
ANTIMONY	206.833	Axial	208.3091	0.9765626	0.9747310	0.9775814	0.9773753
BERYLLIUM	313.042	Radial	32020.58	1.019111	1.020100	1.021286	1.015948
MANGANESE	257.610	Axial	73943.01	1.071110	1.070035	1.070216	1.073080
MOLYBDENUM	202.030	Axial	795.2225	1.026417	1.028678	1.027001	1.023572
NICKEL	231.604	Axial	1728.077	0.9839253	0.9829981	0.9842588	0.9845189
PHOSPHORUS	177.495	Axial	102.7553	0.9828257	0.9839991	0.9779251	0.9865529
POTASSIUM	766.490	Radial	3347.695	10.10341	10.12050	10.13569	10.05405
SILICON	251.611	Axial	3738.736	0.9323831	0.9309911	0.9290169	0.9371415
SODIUM	589.592	Radial	12695.58	10.57174	10.59325	10.56121	10.56077
STRONTIUM	421.552	Radial	42893.10	1.042504	1.043040	1.044198	1.040273
SULFUR	182.034	Axial	625.9962	9.699004	9.731519	9.665562	9.699933
THALLIUM	190.856	Axial	121.9242	1.109880	1.100371	1.116105	1.113163
TIN	189.989	Axial	269.2026	1.050789	1.052555	1.049304	1.050507
TITANIUM	334.941	Radial	4098.329	1.004979	1.004666	1.007133	1.003139
VANADIUM	292.402	Radial	671.9555	0.9769017	0.9809204	0.9802274	0.9695575
ZINC	206.200	Axial	1873.164	1.040268	1.037507	1.043230	1.040068
CERIUM	535.353	Radial	344.8751	0.003681671	0.007846782	0.03897725	-0.03577902
LANTHANUM	333.749	Radial	7.097291	0.005878856	0.006870960	0.006632802	0.004132806

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835894-01 DF: 1x Batch: WG2468756 Units: mg/l
Analyzed: 03/14/25 01:36 Sequence: 298

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10904.34	10909.80	10877.70	10925.52
YTTRIUM	360.073	Axial	315301.6	315652.8	316160.8	314091.2
YTTRIUM	360.073	Radial	12503.40	12531.46	12520.26	12458.47
INDIUM	230.606	Axial	3183.434	3186.027	3174.824	3189.451

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.07969539	0.005287073	0.003321159	0.004185437	0.008354622
BARIUM	233.527	Axial	5.298846	0.001365527	0.0005766335	0.001398818	0.002121129
BORON	249.678	Radial	2.908962	-0.003388893	-0.004358659	-0.004612928	-0.001195092
CADMIUM	228.802	Axial	10.08827	0.001354402	0.0007183503	0.001080012	0.002264844
CALCIUM	317.933	Radial	8333.994	11.15176	11.20222	11.09585	11.15720
CHROMIUM	267.716	Axial	3.990741	-0.00001831318	0.0002321786	-0.0003301098	0.00004299160
COBALT	228.616	Axial	-0.1940417	0.001094149	0.0004801315	0.0007644921	0.002037823
COPPER	324.754	Axial	230.0515	0.0009175375	0.0007234634	0.001101866	0.0009272834
IRON	259.940	Radial	44.01320	0.004176157	0.005256445	0.005897953	0.001374074
LEAD	220.353	Axial	-0.2481720	0.001856587	0.001991028	0.002044696	0.001534035
LITHIUM	670.784	Radial	-1.51390	0.001481032	0.0005412096	0.002459427	0.001442459
MAGNESIUM	279.079	Radial	715.8097	13.57852	13.60901	13.53810	13.58845
SELENIUM	196.090	Axial	0.03331089	-0.004821383	-0.004683768	-0.009645475	-0.0001349043
SILVER	328.068	Axial	102.7165	-0.0001418829	-0.0002251607	-0.0001172726	-0.00008321558
ALUMINUM	308.215	Radial	11.74659	0.003549851	-0.02204341	0.06564875	-0.03295579
ANTIMONY	206.833	Axial	0.9537064	0.002084211	0.001066108	0.0004023356	0.004784190
BERYLLIUM	313.042	Radial	-8.68709	0.00002544773	0.00003134068	-0.00003148656	0.00007648907
MANGANESE	257.610	Axial	40.60332	0.0003705075	0.0003709722	0.0003109000	0.0004296503
MOLYBDENUM	202.030	Axial	2.558633	0.002211462	0.001607193	0.001374290	0.003652903
NICKEL	231.604	Axial	-1.74308	0.002045758	0.001433780	0.002105386	0.002598107
PHOSPHORUS	177.495	Axial	0.6008106	-0.0002946447	-0.002230117	-0.003512711	0.004858894
POTASSIUM	766.490	Radial	667.1320	2.180790	2.220900	2.179286	2.142183
SILICON	251.611	Axial	65.76313	0.01250961	0.01248664	0.01205138	0.01299083
SODIUM	818.326	Radial	1863.718	28.10359	28.13270	27.99282	28.18525
STRONTIUM	421.552	Radial	86.26966	0.001703620	0.001722483	0.001664363	0.001724014
SULFUR	182.034	Axial	1956.510	30.60647	30.57446	30.80107	30.44388
THALLIUM	190.856	Axial	0.9484154	0.001417727	0.003523764	-0.004781382	0.005510800
TIN	189.989	Axial	0.5971300	0.001501588	-0.0007033500	0.002174421	0.003033692
TITANIUM	334.941	Radial	-3.90569	-0.0002083892	-0.0001240088	0.0002010668	-0.0007022255
VANADIUM	292.402	Radial	-0.9654000	-0.0004310990	0.0008195449	-0.0009638976	-0.001148944
ZINC	206.200	Axial	5.916811	-0.001165440	-0.002602570	-0.001169063	0.0002753133
CERIUM	535.353	Radial	336.6394	-0.02638756	-0.08784669	-0.007584475	0.01626848
LANTHANUM	333.749	Radial	2.672935	-0.0001010595	-0.001089711	-0.001649249	0.002435781

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1835894-01 Batch: WG2468756 Units: mg/l
Analyzed: 03/14/25 01:39 Sequence: 299

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10917.18	10921.99	10907.77	10921.79
YTTRIUM	360.073	Axial	320025.2	320784.4	319755.0	319536.3
YTTRIUM	360.073	Radial	12466.14	12404.86	12469.77	12523.78
INDIUM	230.606	Axial	3267.125	3266.060	3265.230	3270.083

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.3734628	0.002512438	-0.01628234	0.03317432	0.02079458
BARIUM	233.527	Axial	0.1619777	0.0001168444	-0.0002516862	0.0006849279	0.001319424
BORON	249.678	Radial	2.288928	-0.005380262	-0.01310466	-0.02964387	-0.03795539
CADMIUM	228.802	Axial	2.777890	0.0002144364	0.001499919	0.0009611935	0.0007554346
CALCIUM	317.933	Radial	1880.219	2.438896	12.25045	12.20793	12.12507
CHROMIUM	267.716	Axial	0.7962963	-0.0003517094	-0.001536802	-0.001390945	-0.002347894
COBALT	228.616	Axial	-4.43162	0.00005150924	0.002728210	-0.0009169708	-0.001038600
COPPER	324.754	Axial	214.8265	0.0003037390	0.0006885042	0.001345906	0.002521674
IRON	259.940	Radial	40.01857	-0.003266118	-0.01305534	-0.01281572	-0.02312070
LEAD	220.353	Axial	-0.9173749	0.0008117992	-0.004638197	0.01579607	0.001019113
LITHIUM	670.784	Radial	-3.16810	0.001263605	0.001421709	0.007188530	0.01034384
MAGNESIUM	279.079	Radial	156.4014	2.973322	15.13587	14.64184	14.82212
SELENIUM	196.090	Axial	0.5252352	0.0009567044	0.007761324	0.01441171	-0.007822472
SILVER	328.068	Axial	104.3694	-0.00001841386	-0.001045588	-0.001418254	0.002187634
ALUMINUM	308.215	Radial	11.69026	0.003283312	-0.1747898	0.09268447	0.1313550
ANTIMONY	206.833	Axial	-0.5582864	-0.005071248	-0.007826204	-0.03663332	-0.03160920
BERYLLIUM	313.042	Radial	-11.7488	-0.00007346012	-0.0003411676	-0.0003793914	-0.0003813429
MANGANESE	257.610	Axial	20.42290	0.00007561114	0.0004730561	0.0003831968	0.0002779140
MOLYBDENUM	202.030	Axial	0.1654634	-0.0009029720	-0.009582234	-0.0001962207	-0.003766126
NICKEL	231.604	Axial	-4.16835	0.0007249624	0.0007886315	0.003533345	0.006552459
PHOSPHORUS	177.495	Axial	0.6707536	0.0003827016	0.001697393	0.01415738	-0.01011425
POTASSIUM	766.490	Radial	96.16012	0.4875348	2.224757	2.461237	2.627030
SILICON	251.611	Axial	28.11873	0.003000226	0.01377298	0.01246609	0.01876432
SODIUM	589.592	Radial	7314.319	6.109864	30.53420	30.62691	30.48686
STRONTIUM	421.552	Radial	24.73043	0.0002043490	0.0003065016	0.002068115	0.0006906187
SULFUR	182.034	Axial	402.0822	6.260398	31.10721	31.27306	31.52569
THALLIUM	190.856	Axial	0.6239430	-0.001623852	0.0002461753	-0.01543691	-0.009167041
TIN	189.989	Axial	0.1109043	-0.0004131722	0.001422715	-0.005410079	-0.002210219
TITANIUM	334.941	Radial	-2.58036	0.0001163286	0.001081405	-0.0004459857	0.001109510
VANADIUM	292.402	Radial	-2.45772	-0.002616064	-0.008282014	-0.02962805	-0.001330899
ZINC	206.200	Axial	2.729551	-0.002957814	-0.01588152	-0.01368958	-0.01479609
CERIUM	535.353	Radial	339.9735	-0.008212704	-0.08101535	0.01935155	-0.06152677
LANTHANUM	333.749	Radial	1.358680	-0.001885326	-0.002442924	-0.02209548	-0.003741488

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1835894-01 Batch: WG2468756 Units: mg/l
Analyzed: 03/14/25 01:41 Sequence: 300

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10704.40	10710.52	10705.08	10697.60
YTTRIUM	360.073	Axial	306972.9	306836.8	307607.0	306475.0
YTTRIUM	360.073	Radial	12346.50	12362.04	12363.38	12314.08
INDIUM	230.606	Axial	3064.508	3068.577	3065.602	3059.344

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	107.3934	1.042491	1.047248	1.041506	1.038720
BARIUM	233.527	Axial	4316.146	1.069105	1.070330	1.067223	1.069762
BORON	249.678	Radial	296.7837	0.9652062	0.9660473	0.9637936	0.9657776
CADMIUM	228.802	Axial	6463.254	1.026640	1.028785	1.027983	1.023153
CALCIUM	373.690	Radial	10111.81	22.87533	22.85006	22.89930	22.87665
CHROMIUM	267.716	Axial	10057.15	1.069671	1.072972	1.068888	1.067153
COBALT	228.616	Axial	3778.272	0.9942044	0.9954930	0.9913225	0.9957978
COPPER	324.754	Axial	26007.78	1.042127	1.043461	1.041503	1.041416
IRON	259.940	Radial	5250.667	10.14306	10.12703	10.14762	10.15451
LEAD	220.353	Axial	603.2709	1.016380	1.015630	1.012539	1.020971
LITHIUM	670.784	Radial	8070.742	1.054726	1.053319	1.055997	1.054862
MAGNESIUM	279.079	Radial	1223.846	23.51306	23.51953	23.49487	23.52477
SELENIUM	196.090	Axial	87.84682	1.045804	1.050575	1.046799	1.040038
SILVER	328.068	Axial	2581.741	0.2039604	0.2049480	0.2033714	0.2035619
ALUMINUM	308.215	Radial	991.0722	10.18207	10.18032	10.14219	10.22369
ANTIMONY	206.833	Axial	204.2724	0.9830360	0.9843741	0.9879898	0.9767442
BERYLLIUM	313.042	Radial	31564.48	1.020508	1.020220	1.019268	1.022035
MANGANESE	257.610	Axial	71974.75	1.070231	1.072249	1.071399	1.067045
MOLYBDENUM	202.030	Axial	777.6003	1.030281	1.032909	1.030334	1.027599
NICKEL	231.604	Axial	1693.964	1.005418	1.004992	1.006100	1.005162
PHOSPHORUS	177.495	Axial	102.4279	1.005798	1.015430	0.9929964	1.008967
POTASSIUM	766.490	Radial	4064.511	12.41401	12.36200	12.46890	12.41114
SILICON	251.611	Axial	3697.801	0.9466767	0.9428218	0.9486388	0.9485693
SODIUM	818.326	Radial	2562.371	38.45169	38.42330	38.33393	38.59785
STRONTIUM	421.552	Radial	42815.09	1.057097	1.055073	1.057673	1.058545
SULFUR	182.034	Axial	2566.536	40.90821	41.06840	40.83432	40.82191
THALLIUM	190.856	Axial	119.2837	1.105212	1.107225	1.104875	1.103535
TIN	189.989	Axial	261.6431	1.048350	1.046068	1.050798	1.048184
TITANIUM	334.941	Radial	4026.251	1.002947	1.000969	1.002585	1.005287
VANADIUM	292.402	Radial	672.0445	0.9924801	0.9931328	0.9967237	0.9875837
ZINC	206.200	Axial	1845.868	1.052336	1.047050	1.054225	1.055732
CERIUM	535.353	Radial	346.1010	0.03166453	0.09390533	0.02489849	-0.02381023
LANTHANUM	333.749	Radial	6.438470	0.005125174	0.002207413	0.006391404	0.006776706

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1835894-01 Batch: WG2468756 Units: mg/l
Analyzed: 03/14/25 01:44 Sequence: 301

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10696.97	10710.71	10675.42	10704.78
YTTRIUM	360.073	Axial	306305.3	306188.0	307336.7	305391.3
YTTRIUM	360.073	Radial	12303.88	12355.35	12257.29	12299.01
INDIUM	230.606	Axial	3069.367	3075.329	3062.540	3070.231

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	108.4267	1.053188	1.058029	1.049040	1.052496
BARIUM	233.527	Axial	4334.408	1.074377	1.072738	1.077241	1.073152
BORON	249.678	Radial	300.8647	0.9821330	0.9632906	0.9954685	0.9876399
CADMIUM	228.802	Axial	6486.985	1.031130	1.030015	1.033378	1.029997
CALCIUM	373.690	Radial	9955.053	22.59822	22.57932	22.68814	22.52721
CHROMIUM	267.716	Axial	10079.05	1.072752	1.071054	1.077641	1.069561
COBALT	228.616	Axial	3793.571	0.9966483	0.9952454	0.9979988	0.9967005
COPPER	324.754	Axial	25967.50	1.041230	1.038701	1.041609	1.043381
IRON	259.940	Radial	5257.931	10.19270	10.17319	10.21051	10.19440
LEAD	220.353	Axial	605.6176	1.018715	1.014738	1.021693	1.019713
LITHIUM	670.784	Radial	8069.815	1.058261	1.054065	1.060652	1.060067
MAGNESIUM	279.079	Radial	1203.144	23.19529	23.20858	23.17388	23.20342
SELENIUM	196.090	Axial	88.16651	1.050368	1.051643	1.055307	1.044155
SILVER	328.068	Axial	2588.956	0.2047025	0.2053051	0.2051241	0.2036782
ALUMINUM	308.215	Radial	990.6522	10.21336	10.21057	10.25146	10.17803
ANTIMONY	206.833	Axial	208.1269	1.002336	0.9962503	1.007355	1.003403
BERYLLIUM	313.042	Radial	31589.19	1.024845	1.023318	1.025953	1.025263
MANGANESE	257.610	Axial	72201.12	1.074348	1.070482	1.077120	1.075442
MOLYBDENUM	202.030	Axial	789.6205	1.046958	1.043629	1.051592	1.045652
NICKEL	231.604	Axial	1692.830	1.003164	1.000845	1.005646	1.003002
PHOSPHORUS	177.495	Axial	102.9838	1.012002	1.011535	1.017196	1.007275
POTASSIUM	766.490	Radial	4047.994	12.40662	12.36642	12.44217	12.41128
SILICON	251.611	Axial	3736.270	0.9572356	0.9531279	0.9582507	0.9603281
SODIUM	818.326	Radial	2522.386	38.00355	37.98405	37.87305	38.15355
STRONTIUM	421.552	Radial	42938.67	1.063823	1.062836	1.064234	1.064400
SULFUR	182.034	Axial	2534.732	40.42917	40.35683	40.51339	40.41729
THALLIUM	190.856	Axial	119.7105	1.111624	1.106725	1.114554	1.113592
TIN	189.989	Axial	264.9654	1.062416	1.055783	1.067427	1.064037
TITANIUM	334.941	Radial	4077.441	1.019203	1.018001	1.018628	1.020980
VANADIUM	292.402	Radial	676.3928	1.002352	1.004868	0.9994718	1.002715
ZINC	206.200	Axial	1849.565	1.055192	1.049028	1.059178	1.057369
CERIUM	535.353	Radial	343.2556	0.02470170	0.04512139	0.06184400	-0.03286027
LANTHANUM	333.749	Radial	3.162278	0.0006170938	0.004327011	-0.005065752	0.002590023

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835192-02 DF: 1x Batch: WG2468756 Units: mg/l
Analyzed: 03/14/25 01:47 Sequence: 302

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10676.78	10713.78	10643.78	10672.79
YTTRIUM	360.073	Axial	309512.6	310290.3	309810.3	308437.0
YTTRIUM	360.073	Radial	12381.83	12364.51	12417.14	12363.83
INDIUM	230.606	Axial	3098.683	3102.471	3101.923	3091.656

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.6791176	-0.0005378558	0.004975959	-0.005369368	-0.001220158
BARIUM	233.527	Axial	343.1123	0.08528040	0.08470952	0.08522290	0.08590880
BORON	249.678	Radial	21.58846	0.05808310	0.05425155	0.05853590	0.06146185
CADMIUM	228.802	Axial	9.351117	0.001271745	0.0006335939	0.0009460133	0.002235628
CHROMIUM	267.716	Axial	12.69050	0.0009186446	0.001079260	0.0007778883	0.0008987852
COBALT	228.616	Axial	2.764208	0.001863379	0.001216424	0.001735758	0.002637955
LEAD	220.353	Axial	-0.1068032	0.002081722	0.001291717	0.001618164	0.003335286
LITHIUM	670.784	Radial	40.25147	0.006911963	0.005926424	0.007502169	0.007307297
SELENIUM	196.090	Axial	0.9836102	0.006598993	0.006554574	0.01330012	-0.00005771285
SILVER	328.068	Axial	110.0497	0.0006397683	0.0004471670	0.0003479070	0.001124231
ALUMINUM	308.215	Radial	50.08776	0.4020714	0.4377575	0.4074205	0.3610363
ANTIMONY	206.833	Axial	0.8568880	0.001717883	0.0004339066	0.002938042	0.001781700
BERYLLIUM	313.042	Radial	-7.73364	0.00005321162	-0.00002714608	0.0001660587	0.00002072220
CALCIUM	373.690	Radial	30739.36	69.44934	69.57394	69.41818	69.35589
CERIUM	535.353	Radial	350.0947	0.04454397	0.04910389	-0.003737929	0.08826595
COPPER	324.754	Axial	341.6134	0.005629462	0.005200636	0.005692951	0.005994799
IRON	259.940	Radial	282.4029	0.4678517	0.4693362	0.4681642	0.4660548
LANTHANUM	333.749	Radial	2.150845	-0.0007907770	-0.002368153	0.002304916	-0.002309094
MAGNESIUM	279.079	Radial	761.6300	14.58989	14.69231	14.51844	14.55892
MANGANESE	257.610	Axial	28255.09	0.4210965	0.4193746	0.4230370	0.4208779
MOLYBDENUM	202.030	Axial	3.238592	0.003189323	0.002283250	0.003143450	0.004141267
NICKEL	231.604	Axial	3.714935	0.005214074	0.004456393	0.004872163	0.006313667
PHOSPHORUS	177.495	Axial	8.525887	0.07833367	0.07517146	0.07590892	0.08392063
POTASSIUM	766.490	Radial	2593.584	7.972113	7.937018	7.989071	7.990251
SILICON	251.611	Axial	9832.543	2.530538	2.542748	2.528987	2.519881
SODIUM	589.592	Radial	17233.41	14.55219	14.53562	14.54735	14.57360
STRONTIUM	421.552	Radial	11618.57	0.2857505	0.2860621	0.2849069	0.2862826
SULFUR	182.034	Axial	3076.182	49.16426	49.03698	49.28360	49.17218
THALLIUM	190.856	Axial	0.8376498	0.0005493004	0.0002452762	-0.002489761	0.003892386
TIN	189.989	Axial	0.8224724	0.002460130	0.001611047	0.003908424	0.001860919
TITANIUM	334.941	Radial	20.74098	0.005900799	0.006203310	0.005639711	0.005859375
VANADIUM	292.402	Radial	-0.7776934	-0.0001677671	0.001009360	0.0002077836	-0.001720445
ZINC	206.200	Axial	8.512850	0.0003967264	-0.0005370017	-0.0004531605	0.002180341

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835824-01 DF: 1x Batch: WG2468756 Units: mg/l
Analyzed: 03/14/25 01:50 Sequence: 303

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10608.89	10605.78	10627.77	10593.14
YTTRIUM	360.073	Axial	305408.6	305930.5	305542.3	304752.8
YTTRIUM	360.073	Radial	12359.24	12344.08	12413.83	12319.81
INDIUM	230.606	Axial	3027.699	3027.007	3032.926	3023.164

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CALCIUM	373.690	Radial	35039.67	79.31738	79.31726	79.23060	79.40429
COPPER	324.754	Axial	268.5273	0.002739116	0.002676718	0.002834470	0.002706160
IRON	259.940	Radial	74.85330	0.06516211	0.06790112	0.06141908	0.06616614
MAGNESIUM	279.079	Radial	1049.850	20.14889	20.24745	20.12846	20.07075
ALUMINUM	308.215	Radial	17.79967	0.06780013	0.08407149	0.08139227	0.03793664
ANTIMONY	206.833	Axial	-0.7261764	-0.005962575	-0.007238972	-0.007029186	-0.003619566
ARSENIC	189.042	Axial	-0.4697979	0.001468475	-0.003339270	0.004485670	0.003259025
BARIUM	233.527	Axial	184.1681	0.04610296	0.04586172	0.04631296	0.04613421
BERYLLIUM	313.042	Radial	-7.83349	0.00004984015	0.00007961543	-0.00001600135	0.00008590637
BORON	249.678	Radial	1167.750	3.831528	3.810555	3.844671	3.839359
CADMIUM	228.802	Axial	6.297911	0.0007913174	0.0006478761	0.0008325170	0.0008935590
CERIUM	535.353	Radial	340.8333	0.007901471	0.02249424	-0.02192202	0.02313219
CHROMIUM	267.716	Axial	10.16883	0.0006571242	0.001088727	0.0003058239	0.0005768219
COBALT	228.616	Axial	86.20210	0.02407626	0.02406050	0.02411218	0.02405610
LANTHANUM	333.749	Radial	17.59108	0.02044506	0.02217530	0.02088838	0.01827150
LEAD	220.353	Axial	-1.67021	-0.0005849638	-0.0006088086	0.0003546451	-0.001500728
LITHIUM	670.784	Radial	2647.753	0.3467892	0.3454915	0.3481436	0.3467325
MANGANESE	257.610	Axial	107337.6	1.610546	1.619892	1.604342	1.607404
MOLYBDENUM	202.030	Axial	18.19645	0.02323415	0.02316964	0.02340262	0.02313021
NICKEL	231.604	Axial	58.69904	0.03819580	0.03896723	0.03751551	0.03810466
PHOSPHORUS	177.495	Axial	1.030027	0.004149930	0.009945380	0.003734387	-0.001229977
POTASSIUM	766.490	Radial	4839.957	14.72890	14.70120	14.76951	14.71599
SELENIUM	196.090	Axial	0.6686922	0.002869124	-0.002678237	0.002690580	0.008595028
SILICON	251.611	Axial	31314.43	8.119829	8.136918	8.120326	8.102241
SILVER	328.068	Axial	104.7385	0.0002566056	0.0006414826	0.0004695118	-0.0003411777
SODIUM	818.326	Radial	2720.375	40.67563	40.55452	40.76357	40.70879
STRONTIUM	421.552	Radial	28069.41	0.6921755	0.6900359	0.6924787	0.6940121
SULFUR	182.034	Axial	6308.566	101.4995	101.7277	101.1468	101.6239
THALLIUM	190.856	Axial	0.3442242	-0.003990218	0.007323354	-0.005350276	-0.01394373
TIN	189.989	Axial	-0.3895509	-0.002426127	-0.001672484	-0.001775995	-0.003829902
TITANIUM	334.941	Radial	-18.6292	-0.003880619	-0.004399813	-0.003454056	-0.003787987
VANADIUM	292.402	Radial	-2.67830	-0.002970097	-0.001196153	-0.003583294	-0.004130845
ZINC	206.200	Axial	189.1167	0.1047608	0.1044493	0.1045917	0.1052415

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835894-02 DF: 1x Batch: WG2468756 Units: mg/l
Analyzed: 03/14/25 01:53 Sequence: 304

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10835.90	10856.23	10808.18	10843.29
YTTRIUM	360.073	Axial	313339.4	313241.2	314252.5	312524.5
YTTRIUM	360.073	Radial	12405.44	12508.56	12346.98	12360.80
INDIUM	230.606	Axial	3170.439	3180.795	3164.298	3166.223

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CALCIUM	317.933	Radial	9564.917	12.91734	12.85042	12.95259	12.94902
MAGNESIUM	279.079	Radial	729.4129	13.94637	13.83530	14.02455	13.97925
ALUMINUM	308.215	Radial	11.13791	-0.001706370	-0.01091032	-0.006534398	0.01232561
ANTIMONY	206.833	Axial	0.1898585	-0.001523355	-0.001023271	-0.0001757649	-0.003371029
ARSENIC	189.042	Axial	-0.3005990	0.003184845	0.001387845	0.008119330	0.00004735884
BARIUM	233.527	Axial	1.925214	0.0005486140	0.0002639984	0.0005029012	0.0008789423
BERYLLIUM	313.042	Radial	-13.0176	-0.0001161553	-0.0001068963	-0.00009572792	-0.0001458418
BORON	249.678	Radial	5.934928	0.006624373	0.002951096	0.01472163	0.002200391
CADMIUM	228.802	Axial	2.753050	0.0002138852	0.0001828791	0.0002869469	0.0001718297
CERIUM	535.353	Radial	350.3584	0.04258717	0.08428597	0.01114230	0.03233325
CHROMIUM	267.716	Axial	7.842593	0.0003890333	0.0007717001	0.00007159664	0.0003238031
COBALT	228.616	Axial	-5.12198	-0.0001571352	-0.0002176117	0.0001183992	-0.0003721932
COPPER	324.754	Axial	226.2773	0.0008244965	0.0006976860	0.0008728870	0.0009029165
IRON	259.940	Radial	43.58646	0.004025885	0.002989667	0.002576085	0.006511904
LANTHANUM	333.749	Radial	2.718824	0.000003178319	-0.004189560	0.001419341	0.002779754
LEAD	220.353	Axial	-0.2194951	0.001902758	0.0009772073	0.002591583	0.002139483
LITHIUM	670.784	Radial	3.977986	0.002195309	0.001464717	0.002114831	0.003006378
MANGANESE	257.610	Axial	41.07668	0.0003812402	0.0003970905	0.0003378468	0.0004087832
MOLYBDENUM	202.030	Axial	0.6142076	-0.0003119630	-0.001496024	0.0009041104	-0.0003439757
NICKEL	231.604	Axial	-4.65669	0.0003759886	-0.00003066735	0.0005321724	0.0006264609
PHOSPHORUS	177.495	Axial	0.8852952	0.002530393	-0.005238916	0.005412407	0.007417687
POTASSIUM	766.490	Radial	680.9460	2.237882	2.218586	2.244827	2.250234
SELENIUM	196.090	Axial	0.3769906	-0.0007550771	0.0002945679	-0.005076257	0.002516458
SILICON	251.611	Axial	34.76374	0.004740388	0.003964674	0.003498343	0.006758146
SILVER	328.068	Axial	106.2515	0.0001973049	0.0005068009	-0.0001562842	0.0002413979
SODIUM	818.326	Radial	1871.747	28.42597	28.48449	28.36153	28.43190
STRONTIUM	421.552	Radial	98.43165	0.002019522	0.001930915	0.002024523	0.002103128
SULFUR	182.034	Axial	2000.921	31.49952	31.46992	31.55434	31.47428
THALLIUM	190.856	Axial	0.8138445	0.0002231420	0.002024863	0.004340088	-0.005695525
TIN	189.989	Axial	0.1850916	-0.0001147234	0.0001167197	0.0009003050	-0.001361195
TITANIUM	334.941	Radial	-3.69217	-0.0001690428	0.001426058	-0.001444761	-0.0004884249
VANADIUM	292.402	Radial	-1.88583	-0.001783051	-0.003903713	0.00008851891	-0.001533960
ZINC	206.200	Axial	4.743877	-0.001806753	-0.002163107	-0.001581940	-0.001675211

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835894-03 DF: 1x Batch: WG2468756 Units: mg/l
Analyzed: 03/14/25 01:56 Sequence: 305

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10839.09	10820.49	10833.22	10863.56
YTTRIUM	360.073	Axial	313257.8	312411.0	314793.3	312569.2
YTTRIUM	360.073	Radial	12382.96	12397.64	12355.90	12395.34
INDIUM	230.606	Axial	3174.317	3165.351	3177.448	3180.154

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
CALCIUM	317.933	Radial	8670.106	11.71990	11.74088	11.75576	11.66307
MAGNESIUM	279.079	Radial	719.7923	13.78694	13.82185	13.82408	13.71490
ALUMINUM	308.215	Radial	13.65093	0.02448997	0.03996699	0.01053185	0.02297106
ANTIMONY	206.833	Axial	-0.3338178	-0.004016737	-0.002630006	-0.002653993	-0.006766213
ARSENIC	189.042	Axial	-0.5822829	0.0004989067	-0.0004120550	0.006077688	-0.004168913
BARIUM	233.527	Axial	1.085693	0.0003430199	0.0002679441	0.0004045129	0.0003566027
BERYLLIUM	313.042	Radial	-9.35635	0.000001117224	0.00003599501	0.00001828041	-0.00005092375
BORON	249.678	Radial	5.655523	0.005723292	0.006403085	0.005055677	0.005711112
CADMIUM	228.802	Axial	2.775149	0.0002171508	0.0001645216	0.0003096629	0.0001772679
CERIUM	535.353	Radial	341.4290	0.007598825	0.04234383	0.01988901	-0.03943636
CHROMIUM	267.716	Axial	4.648148	0.00005392063	0.0002113686	0.0001609613	-0.0002105680
COBALT	228.616	Axial	-3.86698	0.0001625232	0.00004503347	-0.000006654136	0.0004491903
COPPER	324.754	Axial	266.0714	0.002408697	0.002496292	0.002104490	0.002625309
IRON	259.940	Radial	43.48240	0.003973896	0.003177834	0.004154010	0.004589844
LANTHANUM	333.749	Radial	5.031531	0.003167777	0.006531202	0.004714375	-0.001742246
LEAD	220.353	Axial	-1.19966	0.0003139290	0.002239107	0.0003097967	-0.001607116
LITHIUM	670.784	Radial	-5.36310	0.0009785880	0.001053502	0.001383490	0.0004987717
MANGANESE	257.610	Axial	17.59980	0.00003613997	-0.00004177508	-0.00001557836	0.0001657733
MOLYBDENUM	202.030	Axial	1.328573	0.0006229812	0.001325934	0.0009262710	-0.0003832611
NICKEL	231.604	Axial	-4.07640	0.0007095702	0.0003880534	0.0006385230	0.001102134
PHOSPHORUS	177.495	Axial	0.08698216	-0.005280654	-0.01271255	-0.009242058	0.006112644
POTASSIUM	766.490	Radial	673.7593	2.220007	2.236463	2.255131	2.168426
SELENIUM	196.090	Axial	0.1996974	-0.002836189	0.005301561	-0.003757719	-0.01005241
SILICON	251.611	Axial	45.89666	0.007564584	0.007558361	0.006371321	0.008764069
SILVER	328.068	Axial	104.7692	0.00007490041	0.0004667335	-0.0004113102	0.0001692780
SODIUM	818.326	Radial	1856.307	28.25418	28.34514	28.35151	28.06590
STRONTIUM	421.552	Radial	82.86485	0.001640118	0.001741461	0.001561946	0.001616947
SULFUR	182.034	Axial	1968.733	30.98317	30.99492	30.99839	30.95622
THALLIUM	190.856	Axial	1.080735	0.002653743	-0.002778469	0.01042640	0.0003133035
TIN	189.989	Axial	-0.2231281	-0.001732506	-0.001464803	-0.002035540	-0.001697174
TITANIUM	334.941	Radial	-5.76586	-0.0006785885	-0.0002794003	-0.0006936434	-0.001062722
VANADIUM	292.402	Radial	-1.02012	-0.0005259002	-0.0004031782	-0.002568021	0.001393499
ZINC	206.200	Axial	3.569211	-0.002472373	-0.002616592	-0.002551952	-0.002248574

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/14/25 01:58 Sequence: 306 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10497.52	10493.09	10493.84	10505.63
YTTRIUM	360.073	Axial	301278.4	301394.2	298494.7	303946.3
YTTRIUM	360.073	Radial	12141.89	12227.16	12073.78	12124.73
INDIUM	230.606	Axial	2983.841	2979.802	2982.129	2989.591

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	922.7078	9.633287	9.594208	9.635996	9.669658
ANTIMONY	206.833	Axial	100.3662	0.4913058	0.4931263	0.4852874	0.4955037
ARSENIC	189.042	Axial	100.3657	0.9937566	0.9980267	0.9862011	0.9970419
BARIUM	233.527	Axial	2027.562	0.5121634	0.5120563	0.5132953	0.5111388
BERYLLIUM	313.042	Radial	6063.999	0.1996039	0.1988228	0.1997588	0.2002301
BORON	249.678	Radial	288.6988	0.9545698	0.9644630	0.9568333	0.9424131
CADMIUM	228.802	Axial	3043.711	0.4928861	0.4924192	0.4933470	0.4928920
CALCIUM	373.690	Radial	22459.62	51.73262	51.62001	51.86266	51.71517
CHROMIUM	267.716	Axial	9475.744	1.027679	1.026779	1.029776	1.026483
COBALT	228.616	Axial	3595.806	0.9717979	0.9726644	0.9730784	0.9696509
COPPER	324.754	Axial	24533.51	1.002115	1.002472	1.004121	0.9997527
IRON	259.940	Radial	4964.534	9.748839	9.746564	9.760411	9.739543
LEAD	220.353	Axial	278.9511	0.4838601	0.4846927	0.4812137	0.4856740
LITHIUM	670.784	Radial	7541.658	1.002279	1.001111	1.002749	1.002977
MAGNESIUM	279.079	Radial	482.0085	9.414699	9.425739	9.447512	9.370846
MANGANESE	257.610	Axial	67219.23	1.019207	1.017902	1.020107	1.019612
MOLYBDENUM	202.030	Axial	188.1889	0.2534123	0.2536020	0.2533824	0.2532526
NICKEL	231.604	Axial	1587.859	0.9680349	0.9693280	0.9684454	0.9663313
PHOSPHORUS	177.495	Axial	96.76224	0.9686676	0.9725951	0.9704192	0.9629886
POTASSIUM	766.490	Radial	15998.27	49.08097	49.12715	49.10263	49.01313
SELENIUM	196.090	Axial	81.69349	0.9914551	1.001361	0.9979043	0.9751005
SILICON	251.611	Axial	7582.207	1.983836	1.970504	1.991398	1.989606
SILVER	328.068	Axial	6262.007	0.5168860	0.5158304	0.5171924	0.5176353
SODIUM	818.326	Radial	3328.445	50.23491	50.06323	50.17697	50.46452
STRONTIUM	421.552	Radial	40215.81	1.009636	1.009121	1.009887	1.009900
SULFUR	182.034	Axial	290.5800	4.698271	4.650253	4.718479	4.726080
THALLIUM	190.856	Axial	108.3071	1.021992	1.020482	1.031640	1.013855
TIN	189.989	Axial	125.2240	0.5111997	0.5120445	0.5093017	0.5122529
TITANIUM	334.941	Radial	3912.790	0.9911185	0.9894570	0.9902691	0.9936293
VANADIUM	292.402	Radial	647.2289	0.9719545	0.9765751	0.9726897	0.9665987
ZINC	206.200	Axial	1741.607	1.012293	1.011615	1.014619	1.010644
CERIUM	535.353	Radial	336.4133	0.01464347	0.02284206	0.03107835	-0.009990019
HOT WATER SOL. BORON	249.678	Radial	288.6988	0.9545698	0.9644630	0.9568333	0.9424131
LANTHANUM	333.749	Radial	2.358986	-0.0004485914	0.002449489	-0.003093157	-0.0007021056

Sample ID: CCB Units: mg/l
Analyzed: 03/14/25 02:01 Sequence: 307

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10921.28	10934.58	10914.24	10915.04
YTTRIUM	360.073	Axial	319736.6	321944.1	316567.2	320698.6
YTTRIUM	360.073	Radial	12303.24	12292.34	12375.00	12242.38
INDIUM	230.606	Axial	3308.232	3312.176	3305.010	3307.511

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2
ALUMINUM	308.215	Radial	12.59986	0.01439323	-0.009083250	0.04220792
ANTIMONY	206.833	Axial	0.1915990	-0.001524866	0.0007824963	-0.002942978
ARSENIC	189.042	Axial	-0.2769094	0.003426882	0.0007135715	0.002195531
BARIUM	233.527	Axial	3.478004	0.0009223771	0.00000001915385	0.0009549066
BERYLLIUM	313.042	Radial	-9.08013	0.000008117848	0.00007826651	-0.00002145526
BORON	249.678	Radial	3.606220	-0.0009124910	0.001610366	-0.007533941
CADMIUM	228.802	Axial	6.948753	0.0008641249	0.0002749121	0.0007228786
CALCIUM	317.933	Radial	73.54385	-0.008346090	-0.01076368	-0.006790193
CERIUM	535.353	Radial	331.0228	-0.02740682	-0.03055252	-0.03758476
CHROMIUM	267.716	Axial	8.833333	0.0004863760	0.0005547296	0.0008696437
COBALT	228.616	Axial	3.322315	0.001953012	0.001146375	0.001065426
COPPER	324.754	Axial	228.1808	0.0008291956	0.0007706510	0.0006835950
HOT WATER SOL. BORON	249.678	Radial	3.606220	-0.0009124910	0.001610366	-0.007533941
IRON	259.940	Radial	41.80140	0.001247320	-0.00008127432	-0.001381649
LANTHANUM	333.749	Radial	7.833900	0.007086215	0.006908650	0.005841790
LEAD	220.353	Axial	-0.5459868	0.001407639	0.001050193	0.0007123811
LITHIUM	670.784	Radial	-9.13232	0.0004790042	0.0002762285	0.0008642424
MAGNESIUM	279.079	Radial	1.932739	0.03411772	0.05732747	0.01112863
MANGANESE	257.610	Axial	27.11564	0.0001730764	0.0001469599	0.0001693929
MOLYBDENUM	202.030	Axial	2.093706	0.001603479	0.001426065	0.001344224
NICKEL	231.604	Axial	-2.31825	0.001768792	0.0002087855	0.001736621
PHOSPHORUS	177.495	Axial	0.4189945	-0.002058146	-0.002563675	0.003999100
POTASSIUM	766.490	Radial	-52.0402	0.04452216	0.05534399	0.06025082
SELENIUM	196.090	Axial	0.1776675	-0.003119043	-0.008323906	-0.0009115617
SILICON	251.611	Axial	26.76882	0.002657777	0.002351360	0.003024410
SILVER	328.068	Axial	97.45412	-0.0005790718	-0.0005890548	-0.0004383511
SODIUM	589.592	Radial	66.81499	0.01424023	0.01111284	0.009634642
STRONTIUM	421.552	Radial	16.39171	0.000005475417	-0.0001326161	0.0001555631
SULFUR	182.034	Axial	2.352765	0.009001627	0.003393607	0.003625212
THALLIUM	190.856	Axial	0.4237871	-0.003395667	-0.006615026	-0.001253861
TIN	189.989	Axial	0.2848872	0.0002712286	-0.0004860653	0.0002708050
TITANIUM	334.941	Radial	1.303827	0.001079078	0.0009606018	0.0008555643
VANADIUM	292.402	Radial	-1.29900	-0.0009409844	-0.0001967520	-0.002712600
ZINC	206.200	Axial	5.335504	-0.001495137	-0.003159779	-0.002165129

Sample ID: ICSA Units: mg/l
Analyzed: 03/14/25 04:59 Sequence: 361 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9459.712	9419.331	9462.356	9497.449
YTTRIUM	360.073	Axial	267282.2	268779.2	266576.3	266491.2
YTTRIUM	360.073	Radial	11416.50	11356.41	11385.51	11507.58
INDIUM	230.606	Axial	2489.414	2480.347	2486.212	2501.682

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	44162.84	496.2043	498.0185	496.3872	494.2072
ANTIMONY	206.833	Axial	0.06517486	-0.002086477	-0.006338370	-0.003007664	0.003086604
ARSENIC	189.042	Axial	-1.72170	-0.01279534	-0.02864820	-0.007953564	-0.001784264
BARIUM	233.527	Axial	9.066165	0.002619021	0.002848014	0.002550817	0.002458232
BERYLLIUM	313.042	Radial	-13.0488	-0.0001536712	-0.0002818631	-0.00004548450	-0.0001336661
BORON	249.678	Radial	-2.66281	-0.02232949	-0.01479597	-0.02607637	-0.02611615
CADMIUM	228.802	Axial	5.958629	0.0008528613	0.0007132187	0.001086851	0.0007585145
CALCIUM	373.690	Radial	209681.9	514.1431	516.4291	515.0453	510.9548
CERIUM	535.353	Radial	312.8813	-0.001063017	-0.008440019	0.03308023	-0.02782926
CHROMIUM	267.716	Axial	-21.1276	-0.002979033	-0.003218608	-0.002755268	-0.002963224
COBALT	228.616	Axial	1.378923	0.001592390	0.002232000	0.001803821	0.0007413483
COPPER	324.754	Axial	-154.493	-0.01526291	-0.01502115	-0.01558884	-0.01517874
HOT WATER SOL. BORON	249.678	Radial	-2.66281	-0.02232949	-0.01479597	-0.02607637	-0.02611615
IRON	271.441	Radial	4717.019	195.2338	195.6061	195.8858	194.2094
LANTHANUM	333.749	Radial	-4.54898	-0.01051636	-0.01730214	-0.004234257	-0.01001268
LEAD	220.353	Axial	-5.02271	-0.008125236	-0.004137170	-0.008405661	-0.01183288
LITHIUM	670.784	Radial	0.6113202	0.001764170	0.001439917	0.002738926	0.001113669
MAGNESIUM	279.079	Radial	24197.86	502.8524	505.1656	504.6870	498.7046
MANGANESE	257.610	Axial	122.0160	0.001831310	0.001852582	0.001822453	0.001818896
MOLYBDENUM	202.030	Axial	1.612647	0.001297667	-0.0002030673	0.001213488	0.002882580
NICKEL	231.604	Axial	-16.1874	-0.008751665	-0.007713871	-0.009689404	-0.008851721
PHOSPHORUS	177.495	Axial	1.789261	0.01388616	0.01270111	0.01607406	0.01288331
POTASSIUM	766.490	Radial	-42.2562	0.06423015	0.08206025	0.05112213	0.05950807
SELENIUM	196.090	Axial	-0.6281084	-0.01369754	-0.008940407	-0.01487271	-0.01727951
SILICON	251.611	Axial	-82.4353	-0.02807171	-0.02701026	-0.02961344	-0.02759145
SILVER	328.068	Axial	80.56278	-0.0009368740	-0.0008225412	-0.0007460161	-0.001242065
SODIUM	589.592	Radial	144.4824	0.08994594	0.08386688	0.08774594	0.09822500
STRONTIUM	421.552	Radial	250.3216	0.006285589	0.006180904	0.006322219	0.006353643
SULFUR	182.034	Axial	-8.17376	-0.1753231	-0.1828431	-0.1712016	-0.1719246
THALLIUM	190.856	Axial	-0.7256069	-0.01496721	-0.01789801	-0.01129652	-0.01570710
TIN	189.989	Axial	-1.24491	-0.006505654	-0.007295710	-0.01098803	-0.001233224
TITANIUM	334.941	Radial	-64.9221	-0.01672634	-0.01714006	-0.01685812	-0.01618084
VANADIUM	292.402	Radial	-3.25292	-0.004223551	-0.003169621	-0.008404249	-0.001096783
ZINC	206.200	Axial	25.38983	0.01195954	0.01258410	0.01095897	0.01233554

Sample ID: ICSAB Units: mg/l
Analyzed: 03/14/25 05:02 Sequence: 362 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9491.022	9466.430	9527.371	9479.265
YTTRIUM	360.073	Axial	268040.5	269391.0	267729.3	267001.3
YTTRIUM	360.073	Radial	11538.46	11588.50	11564.30	11462.59
INDIUM	230.606	Axial	2485.753	2481.560	2489.607	2486.092

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	45305.48	503.6545	503.8469	503.6634	503.4531
ANTIMONY	206.833	Axial	90.81742	0.4916988	0.4921689	0.4994994	0.4834280
ARSENIC	189.042	Axial	45.20825	0.4981194	0.5026190	0.5033775	0.4883618
BARIUM	233.527	Axial	1822.193	0.5091040	0.5122310	0.5073439	0.5077369
BERYLLIUM	313.042	Radial	14051.31	0.4862593	0.4876377	0.4857619	0.4853783
BORON	249.678	Radial	274.8292	0.9562393	0.9740548	0.9481706	0.9464925
CADMIUM	228.802	Axial	5779.797	1.035464	1.039051	1.029862	1.037479
CALCIUM	373.690	Radial	214822.3	521.1701	520.9439	520.3660	522.2002
CERIUM	535.353	Radial	311.9765	-0.02026544	-0.06829958	-0.03477533	0.04227860
CHROMIUM	267.716	Axial	4107.426	0.4924890	0.4966839	0.4879823	0.4928007
COBALT	228.616	Axial	1495.949	0.4858767	0.4872271	0.4861092	0.4842938
COPPER	324.754	Axial	11711.60	0.5252423	0.5259421	0.5241903	0.5255945
HOT WATER SOL. BORON	249.678	Radial	274.8292	0.9562393	0.9740548	0.9481706	0.9464925
IRON	271.441	Radial	4833.425	197.9350	197.8831	197.2647	198.6570
LANTHANUM	333.749	Radial	-6.68805	-0.01359800	-0.01088635	-0.01333907	-0.01656859
LEAD	220.353	Axial	468.0604	0.9722736	0.9671921	0.9774601	0.9721686
LITHIUM	670.784	Radial	8.148092	0.002810003	0.003070620	0.003664030	0.001695360
MAGNESIUM	279.079	Radial	24800.41	509.9164	508.5656	509.2499	511.9337
MANGANESE	257.610	Axial	29277.03	0.4908768	0.4942462	0.4886886	0.4896957
MOLYBDENUM	202.030	Axial	329.7356	0.4921550	0.4929324	0.4911427	0.4923899
NICKEL	231.604	Axial	1331.409	0.9743154	0.9758824	0.9726150	0.9744488
PHOSPHORUS	177.495	Axial	2.012971	0.01631892	0.01778597	0.01343462	0.01773616
POTASSIUM	766.490	Radial	-37.0343	0.08242510	0.07932762	0.09078522	0.07716247
SELENIUM	196.090	Axial	36.76837	0.4909211	0.4791815	0.4964123	0.4971695
SILICON	251.611	Axial	3379.355	0.9758864	0.9794751	0.9734384	0.9747458
SILVER	328.068	Axial	8866.064	0.8142002	0.8133747	0.8246470	0.8045790
SODIUM	589.592	Radial	163.9013	0.1062749	0.09873453	0.09886537	0.1212248
STRONTIUM	421.552	Radial	255.4171	0.006349711	0.006326604	0.006447694	0.006274835
SULFUR	182.034	Axial	-7.98748	-0.1714899	-0.1710351	-0.1595095	-0.1839251
THALLIUM	190.856	Axial	44.04332	0.4631741	0.4739836	0.4505941	0.4649447
TIN	189.989	Axial	104.7044	0.4726930	0.4714348	0.4750091	0.4716352
TITANIUM	334.941	Radial	1760.567	0.4696673	0.4710330	0.4695435	0.4684255
VANADIUM	292.402	Radial	300.0924	0.4747425	0.4727105	0.4721918	0.4793254
ZINC	206.200	Axial	1490.055	0.9576966	0.9631063	0.9519771	0.9580065

Sample ID: CALBLK Units: mg/l
Analyzed: 03/14/25 07:09 Sequence: 2 Standard ID: 25C10350

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12826.45	12813.98	12803.00	12862.37
YTTRIUM	360.073	Axial	198858.8	198165.8	199538.6	198872.1
YTTRIUM	360.073	Radial	2942.577	2982.355	2923.809	2921.569
INDIUM	230.606	Axial	5290.190	5275.207	5288.807	5306.556

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	-0.1050221	-2.138381	2.071225	-0.2479102
ANTIMONY	206.833	Axial	2.158234	2.831994	2.071061	1.571648
ARSENIC	189.042	Axial	0.3102270	-0.4217744	1.400991	-0.04853519
BARIUM	233.527	Axial	-5.51079	-5.475423	-5.325913	-5.731049
BERYLLIUM	313.042	Radial	1.694162	4.415931	1.833028	-1.166472
BORON	249.678	Radial	0.3332778	-0.1666389	0.4582570	0.7082153
CADMIUM	228.802	Axial	-11.1146	-11.49866	-9.787555	-12.05758
CALCIUM	317.933	Radial	134.8109	134.0610	135.7274	134.6442
CALCIUM	373.690	Radial	5.762928	7.457090	7.207132	2.624563
CERIUM	535.353	Radial	31.32811	40.70155	27.16214	26.12065
CHROMIUM	267.716	Axial	-6.51601	0.4154894	-15.88226	-4.081293
COBALT	228.616	Axial	-0.6403341	-2.625438	-0.3410515	1.045487
COPPER	324.754	Axial	393.8895	385.9092	397.9275	397.8318
IRON	259.940	Radial	-0.5693496	-0.4999167	-0.8748542	-0.3332778
IRON	271.441	Radial	0.02778965	1.624805	-1.666534	0.1250980
LANTHANUM	333.749	Radial	1.425688	0.8609676	2.249625	1.166472
LEAD	220.353	Axial	0.7331866	0.3287859	0.8083600	1.062414
LITHIUM	670.784	Radial	41.22924	54.07432	32.36961	37.24379
MAGNESIUM	279.079	Radial	-1.40254	-1.583069	-1.416431	-1.208132
MANGANESE	257.610	Axial	3.353662	3.739405	5.155496	1.166084
MOLYBDENUM	202.030	Axial	-0.3398963	-0.9094942	0.7328448	-0.8430394
NICKEL	231.604	Axial	10.54837	10.76588	10.35262	10.52660
PHOSPHORUS	177.495	Axial	-8.75533	-8.529651	-8.861510	-8.874832
POTASSIUM	766.490	Radial	0.5415764	4.665889	-4.290952	1.249792
SELENIUM	196.090	Axial	0.6270560	0.8132259	0.9973106	0.07063170
SILICON	251.611	Axial	2.875398	4.358290	0.7622005	3.505702
SILVER	328.068	Axial	9.752258	15.75707	6.148672	7.351029
SODIUM	589.592	Radial	111.8147	130.8949	109.4818	95.06749
SODIUM	818.326	Radial	-39.5073	-35.28579	-46.40893	-36.82720
STRONTIUM	421.552	Radial	3.305005	4.915847	-1.138699	6.137866
SULFUR	182.034	Axial	1.903695	1.486247	2.250352	1.974487
THALLIUM	190.856	Axial	-0.2444429	0.2463103	-0.8344803	-0.1451588
TIN	189.989	Axial	-0.5699786	-0.5213377	-1.844124	0.6555260
TITANIUM	334.941	Radial	1.407173	2.805088	2.388491	-0.9720602
VANADIUM	292.402	Radial	-0.2083095	-0.9588097	1.833680	-1.499799
ZINC	206.200	Axial	2.832924	2.252081	4.191914	2.054776

Sample ID: STD1 Units: mg/l
Analyzed: 03/14/25 07:12 Sequence: 3 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12825.69	12831.82	12824.31	12820.94
YTTRIUM	360.073	Axial	198292.2	198364.2	198820.1	197692.4
YTTRIUM	360.073	Radial	2930.771	2911.913	2951.240	2929.160
INDIUM	230.606	Axial	5281.667	5285.580	5278.549	5280.873

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	6.528893	6.349962	7.696048	5.540669
ANTIMONY	206.833	Axial	5.880717	6.618858	5.599680	5.423612
ARSENIC	189.042	Axial	2.414842	2.061019	2.980523	2.202986
BARIUM	233.527	Axial	12.23009	12.12032	12.50793	12.06202
BERYLLIUM	313.042	Radial	26.77332	28.24529	27.07882	24.99583
BORON	249.678	Radial	10.81764	9.998334	10.24829	12.20630
CADMIUM	228.802	Axial	8.087913	6.648987	8.261223	9.353528
CALCIUM	317.933	Radial	351.1637	352.2468	353.0245	348.2197
CHROMIUM	267.716	Axial	99.62476	96.97524	101.1994	100.6997
COBALT	228.616	Axial	50.97632	51.39642	49.72904	51.80350
COPPER	324.754	Axial	604.8849	612.8383	597.1679	604.6485
IRON	259.940	Radial	12.49792	13.45609	11.24813	12.78954
LEAD	220.353	Axial	5.053136	4.747713	7.553394	2.858302
LITHIUM	670.784	Radial	103.0800	109.0652	100.2333	99.94168
MAGNESIUM	279.079	Radial	19.03849	19.16347	18.24696	19.70505
MANGANESE	257.610	Axial	610.5957	609.4815	612.7353	609.5702
MOLYBDENUM	202.030	Axial	10.47461	10.63735	9.982254	10.80422
NICKEL	231.604	Axial	34.38813	35.86181	33.40718	33.89539
PHOSPHORUS	177.495	Axial	0.1522606	0.4592371	-0.006670615	0.004215163
POTASSIUM	766.490	Radial	219.6578	219.8384	224.0460	215.0892
SELENIUM	196.090	Axial	1.561010	1.727864	1.040567	1.914601
SILICON	251.611	Axial	278.6594	276.0086	274.6219	285.3476
SILVER	328.068	Axial	66.85803	65.99485	66.63425	67.94499
SODIUM	589.592	Radial	812.0313	802.3663	821.9463	811.7814
STRONTIUM	421.552	Radial	195.3378	188.1631	200.6332	197.2171
SULFUR	182.034	Axial	61.39276	62.44726	61.37238	60.35866
THALLIUM	190.856	Axial	1.657332	1.895853	1.246136	1.830007
TIN	189.989	Axial	17.15014	17.06467	17.38637	16.99939
TITANIUM	334.941	Radial	37.32711	37.41043	36.46614	38.10476
VANADIUM	292.402	Radial	5.165425	6.540055	4.665873	4.290348
ZINC	206.200	Axial	162.9355	165.0550	162.3062	161.4452

Sample ID: STD2 Units: mg/l
Analyzed: 03/14/25 07:14 Sequence: 4 Standard ID: 25C13924

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12826.63	12784.11	12814.40	12881.39
YTTRIUM	360.073	Axial	196788.2	196054.5	197889.8	196420.4
YTTRIUM	360.073	Radial	2947.342	2927.412	2973.039	2941.573
INDIUM	230.606	Axial	5195.507	5182.123	5199.645	5204.753

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	71.72340	73.65851	72.91341	68.59827
ANTIMONY	206.833	Axial	41.84785	41.48643	42.01261	42.04452
ARSENIC	189.042	Axial	43.76769	43.79811	43.80178	43.70318
BARIUM	233.527	Axial	367.4533	368.0060	369.5283	364.8256
BERYLLIUM	313.042	Radial	529.3471	527.8102	529.3238	530.9073
CADMIUM	228.802	Axial	1017.507	1017.776	1020.857	1013.888
CALCIUM	317.933	Radial	2315.085	2298.612	2331.423	2315.221
CHROMIUM	267.716	Axial	2114.572	2099.285	2134.519	2109.910
COBALT	228.616	Axial	1041.778	1044.366	1042.929	1038.038
COPPER	324.754	Axial	4483.790	4465.767	4508.157	4477.448
IRON	259.940	Radial	226.0422	226.3530	227.6126	224.1609
LEAD	220.353	Axial	87.66593	87.09514	89.75028	86.15237
LITHIUM	670.784	Radial	1059.094	1054.122	1071.440	1051.720
MAGNESIUM	279.079	Radial	36.77533	36.76103	36.01097	37.55400
MANGANESE	257.610	Axial	11596.08	11561.94	11645.04	11581.27
MOLYBDENUM	202.030	Axial	111.6638	112.3917	111.2492	111.3505
NICKEL	231.604	Axial	506.5907	506.9158	509.1098	503.7465
PHOSPHORUS	177.495	Axial	9.491984	10.74906	8.364052	9.362840
POTASSIUM	766.490	Radial	2626.809	2621.232	2657.335	2601.861
SELENIUM	196.090	Axial	17.23591	16.93401	17.13140	17.64232
SILICON	251.611	Axial	562.7386	560.4583	565.3115	562.4461
SILVER	328.068	Axial	1158.306	1169.802	1155.235	1149.880
SODIUM	589.592	Radial	7691.851	7682.265	7692.806	7700.482
STRONTIUM	421.552	Radial	3782.638	3761.199	3808.855	3777.861
THALLIUM	190.856	Axial	42.00644	41.22213	42.92410	41.87308
TIN	189.989	Axial	33.24122	32.88231	33.57036	33.27097
TITANIUM	334.941	Radial	155.7272	153.0946	157.7781	156.3089
VANADIUM	292.402	Radial	55.12938	56.73677	53.49023	55.16113
ZINC	206.200	Axial	640.5753	642.1782	642.9459	636.6017

Sample ID: STD3 Units: mg/l
Analyzed: 03/14/25 07:17 Sequence: 5 Standard ID: 25C13926

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12785.19	12749.53	12846.97	12759.05
YTTRIUM	360.073	Axial	195757.3	195646.8	196217.5	195407.5
YTTRIUM	360.073	Radial	2947.078	2924.568	2975.209	2941.458
INDIUM	230.606	Axial	5089.318	5071.860	5116.724	5079.370

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	145.1169	141.3598	148.9612	145.0296
ANTIMONY	206.833	Axial	81.55454	81.37593	82.88187	80.40584
ARSENIC	189.042	Axial	86.98421	86.69015	86.97680	87.28567
BARIUM	233.527	Axial	728.8534	730.8913	730.0321	725.6367
BERYLLIUM	313.042	Radial	1051.948	1045.243	1061.668	1048.935
BORON	249.678	Radial	20.17690	20.37591	20.63915	19.51565
CADMIUM	228.802	Axial	2037.531	2047.025	2036.793	2028.776
CALCIUM	317.933	Radial	4462.943	4436.017	4496.310	4456.502
CHROMIUM	267.716	Axial	4219.078	4190.655	4232.995	4233.583
COBALT	228.616	Axial	2057.708	2061.189	2061.578	2050.356
COPPER	324.754	Axial	8427.695	8466.981	8441.308	8374.796
IRON	259.940	Radial	454.6689	449.5592	462.6748	451.7726
LEAD	220.353	Axial	173.0914	173.4829	174.0584	171.7330
LITHIUM	670.784	Radial	2081.403	2074.393	2103.820	2065.995
MAGNESIUM	279.079	Radial	75.57727	73.81071	75.81558	77.10553
MANGANESE	257.610	Axial	22819.18	22804.89	22866.29	22786.37
MOLYBDENUM	202.030	Axial	223.3878	224.7670	222.9821	222.4144
NICKEL	231.604	Axial	972.3072	975.2763	970.6095	971.0358
PHOSPHORUS	177.495	Axial	26.92849	26.83472	27.84974	26.10101
POTASSIUM	766.490	Radial	5271.658	5219.395	5320.406	5275.175
SELENIUM	196.090	Axial	33.58102	33.41225	33.57054	33.76029
SILICON	251.611	Axial	1129.461	1125.195	1127.863	1135.326
SILVER	328.068	Axial	2291.966	2290.657	2298.479	2286.762
SODIUM	589.592	Radial	15266.97	15203.47	15395.10	15202.36
STRONTIUM	421.552	Radial	7349.595	7309.686	7408.012	7331.086
SULFUR	182.034	Axial	121.2897	124.1382	120.0030	119.7280
THALLIUM	190.856	Axial	80.05607	80.85453	80.03215	79.28153
TIN	189.989	Axial	67.88407	68.81102	68.10205	66.73915
TITANIUM	334.941	Radial	316.9525	312.1257	323.3744	315.3573
VANADIUM	292.402	Radial	113.4218	110.6823	115.8740	113.7090
ZINC	206.200	Axial	1243.578	1243.859	1246.505	1240.369

Sample ID: STD4 Units: mg/l
Analyzed: 03/14/25 07:20 Sequence: 6 Standard ID: 25C13927

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12551.65	12549.50	12559.04	12546.41
YTTRIUM	360.073	Axial	191818.2	191705.0	191549.2	192200.3
YTTRIUM	360.073	Radial	2970.157	2970.760	2980.518	2959.192
INDIUM	230.606	Axial	4876.514	4864.257	4884.165	4881.119

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	361.6520	362.6021	360.3169	362.0370
ANTIMONY	206.833	Axial	196.1590	196.0643	196.5914	195.8213
ARSENIC	189.042	Axial	213.5083	212.6196	214.8261	213.0793
BARIUM	233.527	Axial	1779.353	1779.419	1782.560	1776.080
BERYLLIUM	313.042	Radial	2556.495	2556.546	2555.426	2557.513
BORON	249.678	Radial	49.86889	48.63424	49.90028	51.07214
CADMIUM	228.802	Axial	4935.504	4953.342	4951.233	4901.936
CALCIUM	317.933	Radial	10432.37	10420.39	10447.65	10429.08
CALCIUM	373.690	Radial	9358.243	9309.419	9386.821	9378.491
CHROMIUM	267.716	Axial	10307.86	10295.67	10347.49	10280.42
COBALT	228.616	Axial	4965.746	4980.836	4970.451	4945.952
COPPER	324.754	Axial	19697.61	19669.39	19701.08	19722.38
IRON	259.940	Radial	1113.900	1106.346	1116.379	1118.974
IRON	271.441	Radial	82.20996	79.96607	84.19747	82.46634
LEAD	220.353	Axial	415.4848	413.3108	418.4191	414.7243
LITHIUM	670.784	Radial	5084.434	5040.806	5126.807	5085.688
MAGNESIUM	279.079	Radial	184.0787	182.2951	185.1421	184.7989
MANGANESE	257.610	Axial	55361.41	55281.66	55475.40	55327.17
MOLYBDENUM	202.030	Axial	542.1370	541.7803	543.3799	541.2508
NICKEL	231.604	Axial	2322.859	2327.678	2326.180	2314.718
PHOSPHORUS	177.495	Axial	77.42842	76.20351	77.43684	78.64489
POTASSIUM	766.490	Radial	12711.17	12663.14	12741.32	12729.06
SELENIUM	196.090	Axial	82.26387	82.76382	81.91971	82.10808
SILICON	251.611	Axial	2788.484	2783.782	2801.281	2780.389
SILVER	328.068	Axial	5357.972	5345.190	5355.222	5373.504
SODIUM	589.592	Radial	37521.38	37290.06	37652.78	37621.30
SODIUM	818.326	Radial	1584.402	1573.118	1598.056	1582.031
STRONTIUM	421.552	Radial	18001.13	17857.62	18105.87	18039.89
SULFUR	182.034	Axial	296.8821	294.9488	299.0685	296.6290
THALLIUM	190.856	Axial	197.2833	193.3288	197.7292	200.7917
TIN	189.989	Axial	164.2240	163.8324	164.8570	163.9824
TITANIUM	334.941	Radial	781.1522	779.0640	780.0399	784.3528
VANADIUM	292.402	Radial	279.8931	281.0729	280.6717	277.9348
ZINC	206.200	Axial	3033.381	3044.244	3033.436	3022.464

Sample ID: STD5 Units: mg/l
Analyzed: 03/14/25 07:22 Sequence: 7 Standard ID: 25C14119

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12288.52	12269.72	12304.51	12291.35
YTTRIUM	360.073	Axial	186986.2	187422.7	186679.5	186856.4
YTTRIUM	360.073	Radial	2918.080	2904.001	2920.891	2929.349
INDIUM	230.606	Axial	4676.850	4673.835	4687.220	4669.496

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	705.8245	707.6678	703.8256	705.9802
ANTIMONY	206.833	Axial	379.5376	378.9483	380.6512	379.0133
ARSENIC	189.042	Axial	415.3065	415.6543	415.6341	414.6312
BARIUM	233.527	Axial	3360.258	3363.418	3368.153	3349.203
BERYLLIUM	313.042	Radial	4992.970	4969.010	5013.478	4996.423
BORON	249.678	Radial	95.56234	95.13127	95.59068	95.96506
CADMIUM	228.802	Axial	9563.771	9568.996	9567.664	9554.654
CALCIUM	373.690	Radial	18148.26	18110.42	18172.09	18162.27
CHROMIUM	267.716	Axial	19630.62	19661.28	19594.45	19636.13
COBALT	228.616	Axial	9473.352	9461.805	9492.684	9465.569
COPPER	324.754	Axial	37859.31	37956.75	37947.59	37673.59
IRON	271.441	Radial	158.7189	158.5645	156.5707	161.0215
LEAD	220.353	Axial	791.4817	790.6208	791.8773	791.9471
LITHIUM	670.784	Radial	9939.076	9932.660	9941.556	9943.012
MAGNESIUM	279.079	Radial	358.6598	357.8847	358.9434	359.1514
MANGANESE	257.610	Axial	105961.7	106338.8	106074.8	105471.5
MOLYBDENUM	202.030	Axial	1048.621	1049.184	1049.483	1047.195
NICKEL	231.604	Axial	4436.312	4437.843	4444.145	4426.947
PHOSPHORUS	177.495	Axial	162.1864	162.8073	163.1884	160.5635
POTASSIUM	766.490	Radial	25027.64	24993.10	25064.85	25024.96
SELENIUM	196.090	Axial	158.9918	157.7008	159.9674	159.3072
SILICON	251.611	Axial	5357.894	5352.635	5374.962	5346.085
SILVER	328.068	Axial	10249.69	10235.60	10259.46	10254.00
SODIUM	818.326	Radial	3124.268	3119.143	3135.441	3118.220
STRONTIUM	421.552	Radial	35069.36	35016.45	35124.32	35067.30
SULFUR	182.034	Axial	579.5002	578.2221	581.8316	578.4468
THALLIUM	190.856	Axial	364.9808	362.4635	368.4525	364.0263
TIN	189.989	Axial	315.5072	316.2816	317.5254	312.7145
TITANIUM	334.941	Radial	1518.780	1508.419	1522.934	1524.986
VANADIUM	292.402	Radial	545.5510	543.0585	546.6525	546.9419
ZINC	206.200	Axial	5803.847	5799.301	5810.670	5801.570

Sample ID: STD6 Units: mg/l
Analyzed: 03/14/25 07:25 Sequence: 8 Standard ID: 25C14118

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11851.81	11856.25	11861.55	11837.64
YTTRIUM	360.073	Axial	179484.1	179604.7	179701.0	179146.5
YTTRIUM	360.073	Radial	2861.463	2879.292	2857.605	2847.492
INDIUM	230.606	Axial	4394.902	4422.410	4384.394	4377.903

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1398.663	1405.546	1405.099	1385.344
ANTIMONY	206.833	Axial	745.6535	751.8440	744.5666	740.5498
ARSENIC	189.042	Axial	799.5908	802.6871	800.2614	795.8238
BARIUM	233.527	Axial	6438.674	6451.477	6446.328	6418.216
BERYLLIUM	313.042	Radial	9849.971	9858.379	9896.603	9794.929
BORON	249.678	Radial	189.4766	189.3410	190.9341	188.1546
CADMIUM	228.802	Axial	18601.29	18659.02	18627.27	18517.57
CALCIUM	373.690	Radial	35450.63	35424.24	35615.97	35311.68
CERIUM	535.353	Radial	1235.333	1233.982	1242.924	1229.094
CHROMIUM	267.716	Axial	37544.08	37479.46	37726.16	37426.61
COBALT	228.616	Axial	18036.92	18092.26	18055.60	17962.89
COPPER	324.754	Axial	74529.84	74640.86	74598.74	74349.94
IRON	271.441	Radial	307.9023	307.6199	309.9790	306.1080
LANTHANUM	333.749	Radial	2640.565	2640.262	2646.076	2635.356
LEAD	220.353	Axial	1523.970	1533.963	1521.425	1516.523
LITHIUM	670.784	Radial	19619.17	19600.89	19749.00	19507.61
MAGNESIUM	279.079	Radial	707.3925	710.6840	709.2075	702.2860
MANGANESE	257.610	Axial	204337.8	204319.4	204785.2	203908.9
MOLYBDENUM	202.030	Axial	2010.124	2020.590	2011.887	1997.893
NICKEL	231.604	Axial	8402.683	8420.535	8413.013	8374.499
PHOSPHORUS	177.495	Axial	323.9976	323.1110	323.4780	325.4038
POTASSIUM	766.490	Radial	50266.84	50312.45	50521.02	49967.04
SELENIUM	196.090	Axial	310.6503	312.3026	312.4497	307.1987
SILICON	251.611	Axial	10487.90	10420.36	10544.84	10498.51
SILVER	328.068	Axial	19989.23	20132.89	19931.27	19903.53
SODIUM	818.326	Radial	6215.044	6211.433	6244.672	6189.027
STRONTIUM	421.552	Radial	69467.72	69428.52	69860.50	69114.13
SULFUR	182.034	Axial	1142.283	1147.312	1138.700	1140.837
THALLIUM	190.856	Axial	691.5319	693.8454	693.8324	686.9177
TIN	189.989	Axial	605.1879	608.4057	604.1449	603.0131
TITANIUM	334.941	Radial	2997.165	3009.458	3013.931	2968.108
VANADIUM	292.402	Radial	1076.477	1075.266	1083.795	1070.371
ZINC	206.200	Axial	11106.23	11121.43	11131.09	11066.17

Sample ID: STD7 Units: mg/l
Analyzed: 03/14/25 07:27 Sequence: 9 Standard ID: 25C09297

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11200.46	11190.05	11210.51	11200.81
YTTRIUM	360.073	Axial	168356.6	168864.9	168188.7	168016.1
YTTRIUM	360.073	Radial	2793.461	2806.299	2782.747	2791.336
INDIUM	230.606	Axial	3934.863	3931.588	3926.842	3946.160

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	16982.54	17051.35	16899.84	16996.44
CALCIUM	373.690	Radial	84510.49	84806.15	84053.87	84671.45
IRON	271.441	Radial	1519.618	1529.011	1514.090	1515.752
MAGNESIUM	279.079	Radial	8921.807	8943.267	8896.966	8925.187
SODIUM	818.326	Radial	15740.23	15757.81	15667.41	15795.47
SULFUR	182.034	Axial	5529.434	5528.201	5547.189	5512.912

Sample ID: ICV Units: mg/l
Analyzed: 03/14/25 07:31 Sequence: 10 Standard ID: 25C14120

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	12750.18	12738.87	12756.91	12749.95	12754.99
YTTRIUM	360.073	Axial	195691.0	195230.8	195545.3	196428.0	195559.9
YTTRIUM	360.073	Radial	2944.248	2928.795	2943.317	2957.094	2947.787
INDIUM	230.606	Axial	5100.970	5090.708	5110.117	5095.976	5107.081

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	364.2599	10.17798	10.33729	10.25618	9.987679	10.13076
ANTIMONY	206.833	Axial	383.1059	0.9568973	0.9638059	0.9624370	0.9533930	0.9479531
ARSENIC	189.042	Axial	214.3531	0.9949978	0.9987247	0.9957154	0.9922389	0.9933123
BARIUM	233.527	Axial	3572.206	1.027937	1.033464	1.032317	1.025873	1.020096
BERYLLIUM	313.042	Radial	12615.31	0.9966149	0.9949036	1.001582	0.9964395	0.9935341
BORON	249.678	Radial	50.30747	1.028717	1.023522	1.024606	1.026951	1.039787
CADMIUM	228.802	Axial	9736.073	0.9746800	0.9817064	0.9769226	0.9730720	0.9670190
CALCIUM	317.933	Radial	2250.423	10.25974	10.26842	10.30717	10.21979	10.24359
CHROMIUM	267.716	Axial	10473.60	1.021512	1.020886	1.024179	1.018393	1.022591
COBALT	228.616	Axial	5016.969	0.9615010	0.9719141	0.9641840	0.9587100	0.9511958
COPPER	324.754	Axial	19975.51	0.9754960	0.9758404	0.9736968	0.9784319	0.9740151
IRON	259.940	Radial	1117.317	10.07127	10.08467	10.05236	10.03474	10.11332
LEAD	220.353	Axial	848.1562	0.9640951	0.9752809	0.9664800	0.9602534	0.9543662
LITHIUM	670.784	Radial	5093.213	1.004954	1.004669	1.009484	1.005519	1.000144
MAGNESIUM	279.079	Radial	183.2272	9.818129	9.798912	9.728199	9.791441	9.953962
MANGANESE	257.610	Axial	57167.64	1.026297	1.026702	1.025576	1.027244	1.025668
MOLYBDENUM	202.030	Axial	2218.687	1.023524	1.032251	1.026233	1.024211	1.011399
NICKEL	231.604	Axial	2369.937	0.9708391	0.9773088	0.9745334	0.9722903	0.9592238
PHOSPHORUS	177.495	Axial	77.57585	0.9687063	0.9847061	0.9839491	0.9603059	0.9458641
POTASSIUM	766.490	Radial	2541.364	9.879411	9.858760	10.01676	9.842141	9.799980
SELENIUM	196.090	Axial	79.69485	0.9511719	0.9600047	0.9561159	0.9472522	0.9413149
SILICON	251.611	Axial	1405.465	0.9855970	0.9719002	0.9851308	0.9892215	0.9961355
SILVER	328.068	Axial	10671.37	0.9812812	0.9791432	0.9805210	0.9809075	0.9845532
SODIUM	589.592	Radial	7590.373	10.04910	10.06987	10.06912	10.05796	9.999472
STRONTIUM	421.552	Radial	7297.397	0.4088770	0.4087697	0.4096689	0.4076823	0.4093870
SULFUR	182.034	Axial	581.2876	9.498594	9.567143	9.500533	9.501846	9.424855
THALLIUM	190.856	Axial	200.0105	0.9976525	1.005630	1.012913	0.9848214	0.9872457
TIN	189.989	Axial	336.3381	1.030976	1.038895	1.034678	1.036589	1.013742
TITANIUM	334.941	Radial	770.6160	0.9991463	1.006965	1.001218	0.9925307	0.9958716
VANADIUM	292.402	Radial	274.4040	0.9923291	1.003375	0.9850510	0.9908268	0.9900636
ZINC	206.200	Axial	3009.460	1.003480	1.012022	1.010736	0.9988445	0.9923176
CERIUM	535.353	Radial	31.64966	0.002834007	-0.06177669	0.04808766	0.02193262	0.003092438
LANTHANUM	333.749	Radial	2.389905	0.003516725	-0.003316425	0.0008632237	0.009865236	0.006654866

Sample ID: ICB Units: mg/l
Analyzed: 03/14/25 08:02 Sequence: 11

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12915.10	12922.20	12937.54	12885.55
YTTRIUM	360.073	Axial	199768.0	199686.5	199178.3	200439.1
YTTRIUM	360.073	Radial	3002.040	3024.005	2987.456	2994.658
INDIUM	230.606	Axial	5307.426	5315.129	5317.014	5290.135

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-0.01183842	0.002069368	0.03680617	-0.06723967	0.03664160
ANTIMONY	206.833	Axial	1.140788	-0.002565827	-0.0002346434	-0.001191230	-0.006271609
ARSENIC	189.042	Axial	-0.04834925	-0.001665495	-0.0004362841	0.002346735	-0.006906936
BARIUM	233.527	Axial	-5.95532	-0.0001156640	0.0001537006	-0.00009074511	-0.0004099476
BERYLLIUM	313.042	Radial	3.055046	0.0001038748	0.0001751868	-0.00009354277	0.0002299805
BORON	249.678	Radial	1.777482	0.02904754	0.003084773	0.04208788	0.04196998
CADMIUM	228.802	Axial	-12.8507	-0.0001640167	-0.0001748386	-0.0001130242	-0.0002041873
CALCIUM	317.933	Radial	135.4682	-0.009902926	-0.01376383	-0.01163592	-0.004309024
CERIUM	535.353	Radial	31.38366	-0.003841665	-0.04492616	0.1298131	-0.09641196
CHROMIUM	267.716	Axial	-6.73695	-0.00002045434	0.00007552900	-0.0002766154	0.0001397234
COBALT	228.616	Axial	-0.7126766	-0.00001217277	-0.0001090054	0.00001683988	0.00005564723
COPPER	324.754	Axial	408.8458	0.0006422184	0.0005029120	0.0006773868	0.0007463565
IRON	259.940	Radial	0.1388657	0.006320726	0.01609893	-0.007070089	0.009933336
LANTHANUM	333.749	Radial	0.01851543	-0.005194949	-0.006860160	-0.005569328	-0.003155359
LEAD	220.353	Axial	0.9815847	0.0002699720	-0.001615595	0.001898520	0.0005269914
LITHIUM	670.784	Radial	16.38616	-0.004997585	-0.003356720	-0.004171473	-0.007464564
MAGNESIUM	279.079	Radial	-1.08315	0.01806264	0.02280076	0.01998410	0.01140307
MANGANESE	257.610	Axial	0.7342245	-0.00004627409	-0.00004679647	-0.00002842210	-0.00006360370
MOLYBDENUM	202.030	Axial	0.1550718	0.0002257168	0.0004683772	0.0002865014	-0.00007772820
NICKEL	231.604	Axial	8.735728	-0.0007300072	-0.0007332319	-0.0009764027	-0.0004803869
PHOSPHORUS	177.495	Axial	-8.86999	-0.0005899614	-0.007227598	-0.004281167	0.009738881
POTASSIUM	766.490	Radial	-45.6174	-0.1759908	-0.1625507	-0.1624395	-0.2029823
SELENIUM	196.090	Axial	1.038762	0.004828165	-0.001628673	0.009403733	0.006709435
SILICON	251.611	Axial	4.026276	0.0007845932	0.0008856693	0.002769751	-0.001301641
SILVER	328.068	Axial	8.624484	-0.0001050480	-0.0009417312	0.001186917	-0.0005603295
SODIUM	589.592	Radial	21.69083	-0.1215683	-0.1296232	-0.1329578	-0.1021239
STRONTIUM	421.552	Radial	0.5184321	-0.0001559693	-0.0003424736	-0.0004640798	0.0003386454
SULFUR	182.034	Axial	2.268727	0.005707699	0.007250593	-0.005099755	0.01497226
THALLIUM	190.856	Axial	-0.9345842	-0.003295985	-0.004063746	-0.006330066	0.0005058576
TIN	189.989	Axial	-0.08183229	0.001489042	0.0004056510	0.004760037	-0.0006985619
TITANIUM	334.941	Radial	-0.3980818	-0.002315848	-0.004274797	-0.0009629447	-0.001709803
VANADIUM	292.402	Radial	-1.49986	-0.004576587	-0.005418612	-0.005050570	-0.003260580
ZINC	206.200	Axial	3.599045	0.0002455683	0.00008584942	0.0003240228	0.0003268327

Sample ID: CCV Units: mg/l
Analyzed: 03/14/25 08:05 Sequence: 12 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12546.09	12553.67	12552.57	12532.02
YTTRIUM	360.073	Axial	190778.9	190522.0	191073.8	190741.0
YTTRIUM	360.073	Radial	2952.059	2942.856	2957.644	2955.677
INDIUM	230.606	Axial	4854.372	4859.749	4849.438	4853.929

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	361.8770	10.08428	10.09769	9.950903	10.20425
ANTIMONY	206.833	Axial	199.6967	0.5043703	0.5034211	0.5009694	0.5087203
ARSENIC	189.042	Axial	217.2529	1.024906	1.022209	1.027622	1.024887
BARIUM	233.527	Axial	1806.178	0.5289646	0.5297351	0.5289079	0.5282509
BERYLLIUM	313.042	Radial	2601.844	0.2048976	0.2048623	0.2060930	0.2037375
BORON	249.678	Radial	48.10377	0.9806988	0.9545590	0.9877063	0.9998312
CADMIUM	228.802	Axial	5022.567	0.5115135	0.5127884	0.5113914	0.5103607
CALCIUM	317.933	Radial	10518.93	50.22467	50.24945	50.31961	50.10494
CHROMIUM	267.716	Axial	10619.27	1.062356	1.062069	1.065784	1.059217
COBALT	228.616	Axial	5030.671	1.013091	1.013562	1.015635	1.010077
COPPER	324.754	Axial	19863.28	0.9953816	0.9960145	0.9915978	0.9985325
IRON	259.940	Radial	1121.744	10.08426	10.00698	10.09118	10.15460
LEAD	220.353	Axial	417.3101	0.4980582	0.5013827	0.4970345	0.4957572
LITHIUM	670.784	Radial	5209.163	1.025273	1.024085	1.030562	1.021172
MAGNESIUM	279.079	Radial	184.8586	9.879026	9.940635	9.792001	9.904442
MANGANESE	257.610	Axial	56141.06	1.033820	1.034701	1.032743	1.034017
MOLYBDENUM	202.030	Axial	558.1024	0.2617664	0.2625413	0.2616636	0.2610943
NICKEL	231.604	Axial	2367.023	1.019103	1.021591	1.020485	1.015234
PHOSPHORUS	177.495	Axial	81.54482	1.028156	1.037921	1.022922	1.023623
POTASSIUM	766.490	Radial	12953.12	50.22931	50.30414	50.42426	49.95952
SELENIUM	196.090	Axial	83.49643	1.013232	1.011630	1.029207	0.9988580
SILICON	251.611	Axial	2872.027	2.068093	2.059022	2.069881	2.075376
SILVER	328.068	Axial	5678.831	0.5352390	0.5349783	0.5337653	0.5369735
SODIUM	589.592	Radial	38349.32	51.24393	51.38932	51.37192	50.97055
STRONTIUM	421.552	Radial	18337.38	1.025011	1.026263	1.027023	1.021748
SULFUR	182.034	Axial	306.2621	5.071492	5.073723	5.078704	5.062049
THALLIUM	190.856	Axial	195.7550	1.026002	1.017343	1.027847	1.032815
TIN	189.989	Axial	168.7644	0.5265796	0.5269515	0.5259650	0.5268224
TITANIUM	334.941	Radial	789.3885	1.020798	1.020744	1.018745	1.022906
VANADIUM	292.402	Radial	283.7103	1.023220	1.017753	1.028240	1.023668
ZINC	206.200	Axial	3046.583	1.032407	1.035608	1.033479	1.028133
CERIUM	535.353	Radial	41.15904	0.07878303	0.09786684	0.09022978	0.04825247
LANTHANUM	333.749	Radial	2.828386	0.005127007	0.009843933	0.008364249	-0.002827163

Sample ID: CCB Units: mg/l
Analyzed: 03/14/25 08:08 Sequence: 13

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12861.86	12864.71	12852.47	12868.40
YTTRIUM	360.073	Axial	198666.1	199207.5	198724.5	198066.3
YTTRIUM	360.073	Radial	2927.213	2924.753	2922.291	2934.594
INDIUM	230.606	Axial	5342.108	5347.154	5348.418	5330.752

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-0.6913445	-0.01687745	0.0004925296	-0.04208003	-0.009044855
ANTIMONY	206.833	Axial	2.416427	0.0006259173	-0.0003871593	0.00002800321	0.002236908
ARSENIC	189.042	Axial	0.04027388	-0.001250686	-0.001348989	0.0006809567	-0.003084026
BARIUM	233.527	Axial	-5.60339	-0.00002219930	0.00004646095	-0.0002083006	0.00009524180
BERYLLIUM	313.042	Radial	1.527523	-0.00001124680	-0.0002186219	0.00003334503	0.0001515364
BORON	249.678	Radial	1.624729	0.02670684	0.01033160	0.03972476	0.03006414
CADMIUM	228.802	Axial	-10.7449	0.00003951289	-0.00002783446	0.00001252246	0.0001338507
CALCIUM	317.933	Radial	134.9775	0.004176958	0.005123774	0.01314314	-0.005736040
CERIUM	535.353	Radial	31.50864	0.003114322	-0.08862597	-0.04007654	0.1380455
CHROMIUM	267.716	Axial	-5.05052	0.0001388319	-0.0003969321	0.0005992841	0.0002141437
COBALT	228.616	Axial	-0.7490697	-0.00001796594	-0.00005966810	-0.00008517870	0.00009094899
COPPER	324.754	Axial	409.5914	0.0007888712	0.001210731	0.0006449257	0.0005109572
IRON	259.940	Radial	1.749708	0.02099184	0.01987134	0.02215259	0.02095159
LANTHANUM	333.749	Radial	0.5832361	-0.003106063	-0.005884676	-0.0004239820	-0.003009531
LEAD	220.353	Axial	-0.1654927	-0.0009829266	-0.002566698	0.0001876375	-0.0005697190
LITHIUM	670.784	Radial	35.10526	-0.001169364	-0.0002812870	-0.004349044	0.001122239
MAGNESIUM	279.079	Radial	-2.26351	-0.04652512	-0.01240799	-0.09060182	-0.03656556
MANGANESE	257.610	Axial	6.118132	0.00004886612	0.0001440941	-0.00001953117	0.00002203546
MOLYBDENUM	202.030	Axial	-0.1700146	0.00007765688	0.0002366302	-0.000006990766	0.000003331241
NICKEL	231.604	Axial	9.055221	-0.0006268825	-0.0007728941	-0.0009095599	-0.0001981936
PHOSPHORUS	177.495	Axial	-8.41180	0.004090852	0.002808117	0.002580242	0.006884196
POTASSIUM	766.490	Radial	-45.5757	-0.1802389	-0.1689773	-0.1872331	-0.1845063
SELENIUM	196.090	Axial	0.8911976	0.003120208	0.003401439	0.004609079	0.001350107
SILICON	251.611	Axial	4.460663	0.001097052	0.0002348167	0.001935869	0.001120470
SILVER	328.068	Axial	11.97789	0.0002025116	-0.0003311687	0.0003149748	0.0006237288
SODIUM	589.592	Radial	21.28812	-0.1214076	-0.1346174	-0.1170078	-0.1125977
STRONTIUM	421.552	Radial	1.314596	-0.0001104488	-0.000001467474	-0.000009155662	-0.0003207232
SULFUR	182.034	Axial	2.271186	0.005884957	0.01612413	-0.0004786779	0.002009418
THALLIUM	190.856	Axial	-0.4087929	-0.0007711428	-0.002839786	0.0004342233	0.00009213427
TIN	189.989	Axial	-0.1282511	0.001350393	0.0004706378	0.001126351	0.002454190
TITANIUM	334.941	Radial	0.4721435	-0.001198446	-0.002324609	0.0003645118	-0.001635239
VANADIUM	292.402	Radial	-1.05581	-0.003106588	-0.0004765527	-0.009276820	0.0004336090
ZINC	206.200	Axial	3.114067	0.00008997482	-0.00008786857	0.0001354847	0.0002223083

Sample ID: ICVLL Units: mg/l
Analyzed: 03/14/25 08:11 Sequence: 14 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12869.60	12881.48	12855.20	12872.12
YTTRIUM	360.073	Axial	198871.4	199098.1	198449.7	199066.5
YTTRIUM	360.073	Radial	2964.176	2977.652	2948.129	2966.746
INDIUM	230.606	Axial	5294.248	5299.704	5277.418	5305.623

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5.860036	0.1654158	0.1095592	0.2587417	0.1279466
ANTIMONY	206.833	Axial	6.535625	0.01087265	0.01139002	0.009802240	0.01142571
ARSENIC	189.042	Axial	2.597567	0.01052630	0.007541828	0.009899895	0.01413717
BARIUM	233.527	Axial	12.38019	0.005097808	0.005164699	0.004907475	0.005221251
BERYLLIUM	313.042	Radial	24.38482	0.001781222	0.001755227	0.001754408	0.001834032
BORON	249.678	Radial	11.63695	0.2309567	0.2737565	0.2260336	0.1930799
CADMIUM	228.802	Axial	7.658427	0.001863420	0.001850397	0.001967589	0.001772275
CALCIUM	317.933	Radial	353.9780	1.050930	1.049802	1.062293	1.040694
CHROMIUM	267.716	Axial	103.6119	0.01056012	0.01129114	0.009742622	0.01064658
COBALT	228.616	Axial	52.69665	0.009848732	0.01023619	0.01000239	0.009307617
COPPER	324.754	Axial	626.7595	0.01141091	0.01166207	0.01131260	0.01125805
IRON	259.940	Radial	11.83136	0.1110802	0.09791356	0.1367000	0.09862707
LEAD	220.353	Axial	5.657718	0.005397083	0.005111301	0.004964557	0.006115390
LITHIUM	670.784	Radial	113.7172	0.01427892	0.01684296	0.01580258	0.01019121
MAGNESIUM	279.079	Radial	17.01105	0.9732613	0.9201070	1.021497	0.9781794
MANGANESE	257.610	Axial	620.5190	0.01090313	0.01078675	0.01094057	0.01098206
MOLYBDENUM	202.030	Axial	10.96727	0.005166716	0.005762130	0.004600319	0.005137700
NICKEL	231.604	Axial	34.81815	0.009616922	0.009250752	0.009637923	0.009962090
PHOSPHORUS	177.495	Axial	0.7063594	0.1055763	0.1014553	0.1115893	0.1036841
POTASSIUM	766.490	Radial	208.4930	0.8032515	0.7773596	0.8063559	0.8260392
SELENIUM	196.090	Axial	1.365735	0.008766466	0.01128933	0.005315874	0.009694196
SILICON	251.611	Axial	286.8432	0.1963464	0.1949453	0.1970773	0.1970165
SILVER	328.068	Axial	69.00973	0.005365178	0.006424343	0.004997189	0.004674003
SODIUM	589.592	Radial	824.2793	0.9500031	0.9476515	0.9627262	0.9396318
STRONTIUM	421.552	Radial	195.0971	0.01067837	0.01069242	0.01088841	0.01045429
SULFUR	182.034	Axial	61.91544	0.9746082	0.9581542	0.9940643	0.9716062
THALLIUM	190.856	Axial	1.566174	0.008686680	0.01238120	0.005557098	0.008121745
TIN	189.989	Axial	17.55260	0.05495440	0.05554036	0.05572502	0.05359783
TITANIUM	334.941	Radial	40.87282	0.05092183	0.04933389	0.05272825	0.05070334
VANADIUM	292.402	Radial	5.720834	0.02129988	0.01100503	0.02945164	0.02344297
ZINC	206.200	Axial	163.1535	0.05300731	0.05337280	0.05286470	0.05278442
CERIUM	535.353	Radial	30.95317	-0.004430154	0.02940365	-0.01811111	-0.02458301
LANTHANUM	333.749	Radial	0.9442871	-0.001801455	0.002722009	0.006376865	-0.01450324

Sample ID: ICSA Units: mg/l
Analyzed: 03/14/25 08:13 Sequence: 15 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11246.99	11239.41	11251.06	11250.50
YTTRIUM	360.073	Axial	170878.6	170514.4	171443.2	170678.2
YTTRIUM	360.073	Radial	2812.496	2816.645	2800.896	2819.946
INDIUM	230.606	Axial	4072.802	4073.218	4070.105	4075.082

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	17244.51	504.2650	506.0929	504.4416	502.2604
ANTIMONY	206.833	Axial	-2.11069	-0.01140272	-0.01686487	-0.006495005	-0.01084829
ARSENIC	189.042	Axial	0.4618237	0.0009972163	0.002429754	-0.002906852	0.003468747
BARIUM	233.527	Axial	-4.83307	-0.0000004739926	-0.0002727599	0.0006260843	-0.0003547464
BERYLLIUM	313.042	Radial	-1.72097	-0.0002750826	-0.00002269743	-0.0004368527	-0.0003656975
BORON	249.678	Radial	-0.4303637	-0.01625842	-0.01140441	-0.03847832	0.001107467
CADMIUM	228.802	Axial	-8.81045	0.0001059159	0.0001579285	0.00001946473	0.0001403546
CALCIUM	373.690	Radial	86556.11	506.4178	508.0545	506.8678	504.3312
CERIUM	535.353	Radial	-5.71121	-0.3006517	-0.3475936	-0.3307297	-0.2236317
CHROMIUM	267.716	Axial	13.98432	0.002184833	0.002113011	0.001770410	0.002671078
COBALT	228.616	Axial	1.959074	0.0005892596	0.0003117895	0.0009474030	0.0005085865
COPPER	324.754	Axial	338.4886	0.000002281294	0.0004323451	-0.0002824679	-0.0001430333
IRON	271.441	Radial	1523.258	199.1994	199.3498	199.6434	198.6048
LANTHANUM	333.749	Radial	-3.23324	-0.01770866	-0.01571246	-0.008168688	-0.02924483
LEAD	220.353	Axial	0.4509123	-0.0001607776	-0.0003917738	0.0005032628	-0.0005938218
LITHIUM	670.784	Radial	129.7408	0.01882801	0.01564699	0.01966781	0.02116924
MAGNESIUM	279.079	Radial	9001.039	501.1563	502.0717	502.8108	498.5865
MANGANESE	257.610	Axial	49.74193	0.0009633751	0.0008377342	0.001013465	0.001038927
MOLYBDENUM	202.030	Axial	-0.9466238	-0.0003391330	0.0009098758	-0.001955123	0.00002784831
NICKEL	231.604	Axial	20.98826	0.006630029	0.007020036	0.006471551	0.006398500
PHOSPHORUS	177.495	Axial	-6.07564	0.02038600	0.02626862	0.005732115	0.02915727
POTASSIUM	766.490	Radial	-62.0051	-0.2543591	-0.2304073	-0.2467722	-0.2858977
SELENIUM	196.090	Axial	0.5259978	-0.0003352395	-0.001650045	0.0008034177	-0.0001590916
SILICON	251.611	Axial	-17.9860	-0.01646506	-0.01755485	-0.01654066	-0.01529968
SILVER	328.068	Axial	-17.3834	-0.002717468	-0.003155637	-0.002190113	-0.002806655
SODIUM	589.592	Radial	88.91819	-0.02506256	-0.03366651	-0.009934288	-0.03158689
STRONTIUM	421.552	Radial	126.5844	0.007242937	0.007345221	0.007042922	0.007340669
SULFUR	182.034	Axial	-4.24457	-0.1099176	-0.1345728	-0.1009544	-0.09422549
THALLIUM	190.856	Axial	-0.5529382	-0.002277414	-0.0005338132	-0.002803723	-0.003494707
TIN	189.989	Axial	-2.13208	-0.005656962	-0.005940908	-0.002183854	-0.008846125
TITANIUM	334.941	Radial	34.82077	0.04552637	0.04397537	0.04382489	0.04877884
VANADIUM	292.402	Radial	-1.01371	-0.003114977	0.0003615473	-0.01117417	0.001467693
ZINC	206.200	Axial	30.70605	0.01067767	0.01078433	0.01076150	0.01048717

Sample ID: ICSAB Units: mg/l
Analyzed: 03/14/25 08:16 Sequence: 16 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11329.70	11336.72	11342.09	11310.29
YTTRIUM	360.073	Axial	171063.8	171314.4	171594.5	170282.6
YTTRIUM	360.073	Radial	2808.000	2807.652	2831.224	2785.125
INDIUM	230.606	Axial	4102.062	4119.698	4091.286	4095.201

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	17640.80	516.6804	517.6554	515.7267	516.6592
ANTIMONY	206.833	Axial	179.0794	0.5008204	0.5035868	0.4954994	0.5033751
ARSENIC	189.042	Axial	98.46851	0.5136848	0.5176042	0.5156958	0.5077545
BARIUM	233.527	Axial	1635.756	0.5304814	0.5344359	0.5283134	0.5286947
BERYLLIUM	313.042	Radial	6159.348	0.5101395	0.5101071	0.5096981	0.5106132
BORON	249.678	Radial	48.56838	1.041549	1.080388	1.002157	1.042103
CADMIUM	228.802	Axial	9390.324	1.057833	1.058960	1.057238	1.057301
CALCIUM	373.690	Radial	88054.19	516.0111	516.6840	514.8106	516.5387
CERIUM	535.353	Radial	-6.08440	-0.3036022	-0.4154870	-0.2848230	-0.2104966
CHROMIUM	267.716	Axial	4573.835	0.5106394	0.5069613	0.5090619	0.5158950
COBALT	228.616	Axial	2110.014	0.5029139	0.5012405	0.5042580	0.5032432
COPPER	324.754	Axial	9931.491	0.5465049	0.5438922	0.5469715	0.5486509
IRON	271.441	Radial	1539.961	201.7043	202.0331	201.6628	201.4171
LANTHANUM	333.749	Radial	-2.81145	-0.01611295	-0.005052447	-0.02323215	-0.02005426
LEAD	220.353	Axial	703.9016	0.9949662	1.002148	0.9924792	0.9902718
LITHIUM	670.784	Radial	127.2995	0.01836607	0.01673360	0.01831397	0.02005064
MAGNESIUM	279.079	Radial	9249.920	515.8342	516.7315	514.8913	515.8799
MANGANESE	257.610	Axial	24871.98	0.5107758	0.5074045	0.5091661	0.5157568
MOLYBDENUM	202.030	Axial	978.5716	0.5081120	0.5100858	0.5048232	0.5094269
NICKEL	231.604	Axial	1991.527	1.014674	1.013215	1.016410	1.014399
PHOSPHORUS	177.495	Axial	-7.17086	0.007107932	0.008030581	0.008569739	0.004723476
POTASSIUM	766.490	Radial	-54.9903	-0.2264981	-0.2567960	-0.1555503	-0.2671481
SELENIUM	196.090	Axial	38.41656	0.5125486	0.5162312	0.5199027	0.5015120
SILICON	251.611	Axial	1311.650	1.052399	1.040712	1.051569	1.064915
SILVER	328.068	Axial	9047.936	0.9518093	0.9308774	0.9456661	0.9788845
SODIUM	589.592	Radial	136.3049	0.04184656	0.01824528	0.05772130	0.04957311
STRONTIUM	421.552	Radial	129.7655	0.007441342	0.007401794	0.007619673	0.007302559
SULFUR	182.034	Axial	-3.54656	-0.09645961	-0.1137791	-0.07778528	-0.09781445
THALLIUM	190.856	Axial	80.01007	0.4968702	0.4942044	0.4959499	0.5004563
TIN	189.989	Axial	141.8066	0.4900903	0.4963162	0.4854480	0.4885067
TITANIUM	334.941	Radial	405.5923	0.5505772	0.5449680	0.5510185	0.5557452
VANADIUM	292.402	Radial	126.4793	0.4799597	0.4841961	0.4767861	0.4788969
ZINC	206.200	Axial	2560.701	0.9608545	0.9614371	0.9615006	0.9596257

Sample ID: BLANK DF: 1x Batch: WG2468629 Units: mg/l
Analyzed: 03/14/25 09:31 Sequence: 38

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	13062.53	13100.14	13049.86	13037.59
YTTRIUM	360.073	Axial	201463.6	202372.6	200793.7	201224.4
YTTRIUM	360.073	Radial	3055.898	3089.624	3066.952	3011.119
INDIUM	230.606	Axial	5436.078	5422.481	5457.939	5427.813

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.409531	0.004964322	0.0005688555	0.008948236	0.005375874
BARIUM	233.527	Axial	-4.80064	0.0002283028	-0.0002004309	-0.00009142999	0.0009767694
BORON	249.678	Radial	2.582903	0.04433461	0.04046677	0.04328715	0.04924992
CADMIUM	228.802	Axial	-13.3548	-0.0001987627	-0.0002814114	-0.00004690636	-0.0002679702
CHROMIUM	267.716	Axial	-6.04503	0.00004977160	0.0004587497	-0.0004273591	0.0001179243
COBALT	228.616	Axial	1.142449	0.0003241375	0.00007872108	0.0004252527	0.0004684387
COPPER	324.754	Axial	413.3074	0.0006895151	0.001022730	0.0005108937	0.0005349222
IRON	259.940	Radial	1.166472	0.01524296	0.01765440	0.01486451	0.01320997
LEAD	220.353	Axial	-1.02913	-0.001904675	-0.002577781	-0.0006285420	-0.002507701
LITHIUM	670.784	Radial	45.90902	0.0005960329	0.001318340	0.001690933	-0.001221174
NICKEL	231.604	Axial	11.26846	0.0001651154	0.000005718770	0.0003903440	0.00009928337
SELENIUM	196.090	Axial	0.3855953	-0.002982872	-0.0005537368	-0.007246178	-0.001148701
SILVER	328.068	Axial	34.13408	0.002165681	0.002535616	0.0008717971	0.003089630
ZINC	206.200	Axial	6.623928	0.001217634	0.001196671	0.001101799	0.001354431
ALUMINUM	308.215	Radial	-3.26901	-0.08499656	-0.1447002	-0.06986835	-0.04042109
ANTIMONY	206.833	Axial	1.589880	-0.001496571	0.0008902272	-0.001135631	-0.004244311
BERYLLIUM	313.042	Radial	1.110926	-0.00004842969	0.000005544320	-0.00003767383	-0.0001131595
CALCIUM	317.933	Radial	141.1061	0.005159261	-0.001310785	0.0001541183	0.01663445
MAGNESIUM	279.079	Radial	-1.13869	0.01646578	-0.01198901	0.01714544	0.04424093
MANGANESE	257.610	Axial	8.303747	0.00008562898	0.00007422024	0.0001160976	0.00006656910
MOLYBDENUM	202.030	Axial	0.3550083	0.0003159300	-0.0001536397	0.0005257073	0.0005757223
PHOSPHORUS	177.495	Axial	-8.44066	0.005203456	0.01118629	0.006837970	-0.002413893
POTASSIUM	766.490	Radial	16.55280	0.06011836	0.04353406	0.06517436	0.07164666
SILICON	251.611	Axial	11.94125	0.006150612	0.01041460	0.005288762	0.002748475
SODIUM	589.592	Radial	138.3936	0.02902751	0.02768019	0.02571686	0.03368547
STRONTIUM	421.552	Radial	4.184488	0.00004066010	0.0001044677	0.00003337300	-0.00001586038
SULFUR	182.034	Axial	2.570527	0.01010928	0.007363191	0.02517788	-0.002213227
THALLIUM	190.856	Axial	-0.3068516	-0.0002601559	0.002458524	-0.0006341892	-0.002604803
TIN	189.989	Axial	0.1355922	0.002142192	0.003735835	0.001808672	0.0008820675
TITANIUM	334.941	Radial	1.777482	0.0004210161	0.001105825	-0.002647346	0.002804569
VANADIUM	292.402	Radial	0.1941130	0.001374894	-0.0002670127	0.009838379	-0.005446683
CERIUM	535.353	Radial	35.25801	0.02220998	0.001581461	-0.04073400	0.1057825
LANTHANUM	333.749	Radial	0.7313596	-0.002700649	0.0002883349	-0.002223318	-0.006166964

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2468629 Units: mg/l
Analyzed: 03/14/25 09:34 Sequence: 39

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12837.31	12823.75	12835.00	12853.19
YTTRIUM	360.073	Axial	195704.9	196879.5	195048.4	195186.8
YTTRIUM	360.073	Radial	3012.584	3027.639	3023.327	2986.785
INDIUM	230.606	Axial	5176.872	5159.340	5202.587	5168.688

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	229.2340	1.056946	1.065640	1.058162	1.047037
BARIUM	233.527	Axial	3734.297	1.067229	1.070865	1.067884	1.062936
BORON	249.678	Radial	52.12702	1.041733	1.051409	1.057789	1.016000
CADMIUM	228.802	Axial	10441.21	1.038105	1.040001	1.039385	1.034927
CHROMIUM	267.716	Axial	10998.82	1.072630	1.071870	1.076781	1.069238
COBALT	228.616	Axial	5301.599	1.001158	1.008013	0.9956955	0.9997650
COPPER	324.754	Axial	21046.20	1.028764	1.022880	1.033537	1.029875
IRON	259.940	Radial	1170.962	10.31518	10.37065	10.26582	10.30906
LEAD	220.353	Axial	908.6748	1.017778	1.017642	1.018947	1.016745
LITHIUM	670.784	Radial	5409.600	1.043506	1.045720	1.034417	1.050383
NICKEL	231.604	Axial	2513.683	1.014828	1.023276	1.008789	1.012419
SELENIUM	196.090	Axial	88.82861	1.053796	1.057579	1.059058	1.044749
SILVER	328.068	Axial	2380.720	0.2182203	0.2166896	0.2194091	0.2185622
ZINC	206.200	Axial	3186.881	1.055477	1.058842	1.056284	1.051304
ALUMINUM	308.215	Radial	380.3215	10.38527	10.34851	10.41185	10.39546
ANTIMONY	206.833	Axial	410.9965	1.019947	1.019472	1.026339	1.014031
BERYLLIUM	313.042	Radial	13358.60	1.031439	1.028611	1.025411	1.040295
CALCIUM	317.933	Radial	2339.747	10.43580	10.44266	10.35126	10.51346
MAGNESIUM	279.079	Radial	192.0565	10.05649	9.964043	10.04499	10.16044
MANGANESE	257.610	Axial	59931.33	1.075863	1.068511	1.083503	1.075575
MOLYBDENUM	202.030	Axial	2284.176	1.046579	1.048137	1.050521	1.041080
PHOSPHORUS	177.495	Axial	84.76560	1.042957	1.023374	1.054354	1.051142
POTASSIUM	766.490	Radial	2731.234	10.37736	10.34285	10.26001	10.52923
SILICON	251.611	Axial	1402.811	0.9836870	0.9789631	0.9903338	0.9817641
SODIUM	589.592	Radial	8033.643	10.40017	10.40472	10.31201	10.48377
STRONTIUM	421.552	Radial	19095.46	1.045983	1.046044	1.036240	1.055666
SULFUR	182.034	Axial	647.0724	10.50506	10.49895	10.55306	10.46318
THALLIUM	190.856	Axial	221.9987	1.090988	1.093436	1.091674	1.087854
TIN	189.989	Axial	351.1512	1.069012	1.071538	1.069877	1.065620
TITANIUM	334.941	Radial	793.0045	1.004824	1.004652	1.009877	0.9999424
VANADIUM	292.402	Radial	285.4329	1.008810	1.005214	1.002924	1.018293
CERIUM	535.353	Radial	28.77812	-0.02543343	-0.03182256	-0.03234040	-0.01213732
LANTHANUM	333.749	Radial	0.8309145	-0.002260369	-0.001995244	-0.006558494	0.001772632

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835085-01 DF: 1x Batch: WG2468629 Units: mg/l
Analyzed: 03/14/25 09:37 Sequence: 40

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12731.04	12718.97	12733.44	12740.71
YTTRIUM	360.073	Axial	193453.8	193673.3	194261.1	192427.0
YTTRIUM	360.073	Radial	3003.668	2974.539	2997.567	3038.899
INDIUM	230.606	Axial	5100.518	5092.110	5098.371	5111.072

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.704819	0.006499791	0.006263264	0.007088295	0.006147815
BARIUM	233.527	Axial	-4.25544	0.0003493447	0.0003743192	0.0002687402	0.0004049746
BORON	249.678	Radial	26.23495	0.5223227	0.4984257	0.5276181	0.5409244
CADMIUM	228.802	Axial	-14.2540	-0.0003228845	-0.0003847415	-0.0003904385	-0.0001934735
CHROMIUM	267.716	Axial	36.74031	0.004245213	0.004085113	0.004540675	0.004109851
COBALT	228.616	Axial	-0.01683712	0.0001157735	0.0002835846	-0.0001084056	0.0001721417
COPPER	324.754	Axial	484.0794	0.005085797	0.005159407	0.004265981	0.005832002
IRON	259.940	Radial	9.067658	0.08528331	0.09441425	0.08655224	0.07488344
LEAD	220.353	Axial	0.9703842	0.0003009997	0.001255791	-0.0005894124	0.0002366201
LITHIUM	670.784	Radial	35.93896	-0.001172465	-0.0005419514	-0.00004741987	-0.002928023
NICKEL	231.604	Axial	12.21625	0.0008429346	0.001818565	0.0008190686	-0.0001088295
SELENIUM	196.090	Axial	0.1550285	-0.005637127	0.001086102	-0.009699227	-0.008298255
SILVER	328.068	Axial	30.02121	0.001913378	0.002663628	0.0005684038	0.002508103
ZINC	206.200	Axial	18.11127	0.005113423	0.004950432	0.005419580	0.004970258
ALUMINUM	308.215	Radial	103.3480	2.832481	2.901457	2.764005	2.831982
ANTIMONY	206.833	Axial	0.8773074	-0.003183454	-0.002833032	-0.003012141	-0.003705189
BERYLLIUM	313.042	Radial	3.742713	0.0001586313	0.0003028760	0.0002035406	-0.00003052256
CALCIUM	317.933	Radial	143.5855	0.02836050	0.03001216	0.03362923	0.02144011
MAGNESIUM	279.079	Radial	3.231548	0.2425699	0.1751516	0.2507030	0.3018552
MANGANESE	257.610	Axial	22.65348	0.0003523143	0.0002995465	0.0003482524	0.0004091440
MOLYBDENUM	202.030	Axial	1.954086	0.001058138	0.001162040	0.001006901	0.001005472
PHOSPHORUS	177.495	Axial	-7.33072	0.01528939	0.02279408	0.01252963	0.01054445
POTASSIUM	766.490	Radial	-13.6910	-0.05402629	-0.02230688	-0.06925695	-0.07051505
SILICON	251.611	Axial	230.5751	0.1619039	0.1602678	0.1630105	0.1624335
SODIUM	818.326	Radial	2244.359	67.73628	68.14262	67.10552	67.96070
STRONTIUM	421.552	Radial	16.18174	0.0007061512	0.001069063	0.0005440871	0.0005053035
SULFUR	182.034	Axial	2205.565	36.18129	36.25693	36.18904	36.09790
THALLIUM	190.856	Axial	0.3201442	0.002762731	0.002422447	-0.003019538	0.008885285
TIN	189.989	Axial	0.4947261	0.003255772	0.003353440	0.002708218	0.003705658
TITANIUM	334.941	Radial	2.403461	0.001240628	0.001067881	0.0008040579	0.001849946
VANADIUM	292.402	Radial	-0.7353774	-0.001882908	-0.003724915	-0.002221777	0.0002979666
CERIUM	535.353	Radial	38.52419	0.05212677	0.1406697	-0.1098598	0.1255705
LANTHANUM	333.749	Radial	1.682810	0.0008174231	-0.0008253280	0.005574876	-0.002297279

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1835085-01 Batch: WG2468629 Units: mg/l
Analyzed: 03/14/25 09:40 Sequence: 41

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12763.89	12739.14	12788.55	12763.98
YTTRIUM	360.073	Axial	196724.4	197644.4	196085.7	196443.2
YTTRIUM	360.073	Radial	2978.864	2963.329	2989.616	2983.647
INDIUM	230.606	Axial	5277.588	5272.107	5281.921	5278.734

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.7908654	0.002233552	0.00003319178	0.002850300	0.003817164
BARIUM	233.527	Axial	-5.68974	-0.00005905857	0.00005490653	-0.0001056881	-0.0001263942
BORON	249.678	Radial	5.174127	0.09836816	0.1018628	0.07496526	0.1182764
CADMIUM	228.802	Axial	-13.7823	-0.0002717061	-0.0001389879	-0.0006624690	-0.00001366140
CHROMIUM	267.716	Axial	2.832435	0.0008989003	0.0003983033	0.0009311152	0.001367282
COBALT	228.616	Axial	-0.3827011	0.00004790911	-0.0002981315	0.0002645203	0.0001773384
COPPER	324.754	Axial	426.0486	0.001803124	0.001861624	0.002011880	0.001535869
IRON	259.940	Radial	1.679296	0.02006534	0.01034394	0.02324185	0.02661023
LEAD	220.353	Axial	1.901695	0.001287882	0.001928911	0.0009675392	0.0009671945
LITHIUM	670.784	Radial	33.80071	-0.001549856	-0.003886040	-0.001002064	0.0002385362
NICKEL	231.604	Axial	9.821327	-0.0002791375	-0.00003427355	-0.0001718579	-0.0006312812
SELENIUM	196.090	Axial	0.4668086	-0.001897694	0.0002640852	-0.0009750403	-0.004982126
SILVER	328.068	Axial	12.74437	0.0002824699	0.0003505369	0.0004508348	0.00004603786
ZINC	206.200	Axial	5.776443	0.0009854108	0.0009573200	0.001102549	0.0008963635
ALUMINUM	308.215	Radial	18.06753	0.5014360	0.5125534	0.4602681	0.5314865
ANTIMONY	206.833	Axial	0.6350895	-0.003796795	-0.004309500	-0.004815739	-0.002265147
BERYLLIUM	313.042	Radial	-0.1098557	-0.0001413794	-0.0002629595	-0.00006117840	-0.0001000001
CALCIUM	317.933	Radial	135.3438	-0.005483922	-0.001611689	-0.01257947	-0.002260607
MAGNESIUM	279.079	Radial	-0.3476187	0.05648018	0.1162840	-0.01485466	0.06801116
MANGANESE	257.610	Axial	5.454931	0.00003827989	-0.000005218092	0.00002957187	0.00009048590
MOLYBDENUM	202.030	Axial	0.3701902	0.0003261719	0.0004014628	0.0001044093	0.0004726436
PHOSPHORUS	177.495	Axial	-8.03766	0.007576091	0.009854936	-0.0008823616	0.01375570
POTASSIUM	766.490	Radial	-30.0601	-0.1174994	-0.1201579	-0.1635460	-0.06879428
SILICON	251.611	Axial	41.55612	0.02705778	0.02668844	0.02832786	0.02615704
SODIUM	589.592	Radial	9151.093	12.00361	12.09340	11.89194	12.02548
STRONTIUM	421.552	Radial	4.046589	0.00004022826	0.0003505756	-0.0001940285	-0.00003586224
SULFUR	182.034	Axial	365.7622	5.958829	5.982139	5.965436	5.928913
THALLIUM	190.856	Axial	-0.2342386	0.00004673631	0.002739381	-0.003744080	0.001144908
TIN	189.989	Axial	0.08657568	0.002001456	0.0001146189	0.004482779	0.001406970
TITANIUM	334.941	Radial	1.119151	-0.0003787621	-0.0006363695	-0.002277898	0.001777981
VANADIUM	292.402	Radial	-1.65105	-0.005159601	-0.005380485	-0.006972883	-0.003125434
CERIUM	535.353	Radial	34.30237	0.02123258	0.05503609	-0.03665566	0.04531732
LANTHANUM	333.749	Radial	2.431388	0.003592942	0.007808676	0.002284635	0.0006855160

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1835085-01 Batch: WG2468629 Units: mg/l
Analyzed: 03/14/25 09:42 Sequence: 42

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12611.46	12626.72	12620.74	12586.93
YTTRIUM	360.073	Axial	191415.2	191654.5	191058.7	191532.5
YTTRIUM	360.073	Radial	2978.147	2985.227	2951.008	2998.205
INDIUM	230.606	Axial	4955.088	4938.961	4950.918	4975.385

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	226.0578	1.060964	1.063153	1.059933	1.059807
BARIUM	233.527	Axial	3618.780	1.052752	1.054236	1.053457	1.050562
BORON	249.678	Radial	72.90627	1.476980	1.451084	1.504174	1.475682
CADMIUM	228.802	Axial	10201.72	1.032459	1.034669	1.032801	1.029907
CHROMIUM	267.716	Axial	10728.41	1.069712	1.066202	1.077702	1.065231
COBALT	228.616	Axial	5127.801	1.011677	1.016795	1.013017	1.005217
COPPER	324.754	Axial	20291.29	1.013796	1.017211	1.012650	1.011528
IRON	259.940	Radial	1151.893	10.26464	10.24226	10.27769	10.27399
LEAD	220.353	Axial	859.7092	1.006025	1.004741	1.007451	1.005884
LITHIUM	670.784	Radial	5376.425	1.049113	1.048633	1.048656	1.050050
NICKEL	231.604	Axial	2435.348	1.027267	1.037287	1.027319	1.017194
SELENIUM	196.090	Axial	87.37663	1.055144	1.052758	1.050454	1.062221
SILVER	328.068	Axial	2285.622	0.2141766	0.2158754	0.2133213	0.2133331
ZINC	206.200	Axial	3124.137	1.053222	1.053542	1.051540	1.054584
ALUMINUM	308.215	Radial	470.5021	12.99570	12.91819	13.02774	13.04117
ANTIMONY	206.833	Axial	401.4935	1.014177	1.013524	1.011920	1.017088
BERYLLIUM	313.042	Radial	13164.66	1.028184	1.025836	1.029426	1.029290
CALCIUM	317.933	Radial	2294.779	10.34813	10.34877	10.35015	10.34547
MAGNESIUM	279.079	Radial	191.3111	10.13251	10.03850	10.20656	10.15248
MANGANESE	257.610	Axial	57584.11	1.056870	1.059452	1.058592	1.052565
MOLYBDENUM	202.030	Axial	2245.288	1.047187	1.043898	1.044975	1.052688
PHOSPHORUS	177.495	Axial	84.52399	1.057162	1.054183	1.048810	1.068494
POTASSIUM	766.490	Radial	2706.636	10.40196	10.43311	10.35014	10.42263
SILICON	251.611	Axial	1576.222	1.130338	1.131437	1.133041	1.126536
SODIUM	818.326	Radial	2470.520	75.06778	74.26360	75.04272	75.89701
STRONTIUM	421.552	Radial	18812.51	1.042358	1.040388	1.042390	1.044294
SULFUR	182.034	Axial	2789.819	46.20846	46.09340	46.02938	46.50260
THALLIUM	190.856	Axial	207.1768	1.063766	1.073681	1.060342	1.057275
TIN	189.989	Axial	342.3601	1.060932	1.059590	1.054957	1.068247
TITANIUM	334.941	Radial	785.6910	1.007090	1.005436	1.007064	1.008770
VANADIUM	292.402	Radial	281.7749	1.007387	1.008285	1.012480	1.001395
CERIUM	535.353	Radial	28.39340	-0.02598183	0.04918552	-0.05555207	-0.07157893
LANTHANUM	333.749	Radial	2.582534	0.004139895	0.009154973	0.003712490	-0.0004477781

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1835085-01 Batch: WG2468629 Units: mg/l
Analyzed: 03/14/25 09:45 Sequence: 43

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12592.87	12586.36	12598.60	12593.66
YTTRIUM	360.073	Axial	190776.6	190564.0	191461.9	190304.0
YTTRIUM	360.073	Radial	2984.342	2991.048	2978.757	2983.220
INDIUM	230.606	Axial	4966.475	4971.535	4973.919	4953.971

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	227.7692	1.070590	1.073436	1.067002	1.071333
BARIUM	233.527	Axial	3667.920	1.068602	1.070699	1.068567	1.066539
BORON	249.678	Radial	74.30306	1.502179	1.485973	1.505952	1.514612
CADMIUM	228.802	Axial	10321.81	1.046144	1.048922	1.044120	1.045390
CHROMIUM	267.716	Axial	10833.60	1.083798	1.083584	1.085135	1.082675
COBALT	228.616	Axial	5199.398	1.023437	1.024126	1.020451	1.025734
COPPER	324.754	Axial	20594.07	1.032731	1.033814	1.028870	1.035508
IRON	259.940	Radial	1165.581	10.36506	10.28054	10.38133	10.43330
LEAD	220.353	Axial	875.6461	1.022336	1.023395	1.023570	1.020043
LITHIUM	670.784	Radial	5412.129	1.053939	1.046106	1.060937	1.054773
NICKEL	231.604	Axial	2460.305	1.035423	1.036207	1.034327	1.035735
SELENIUM	196.090	Axial	88.66427	1.072391	1.074700	1.067957	1.074514
SILVER	328.068	Axial	2311.029	0.2172980	0.2167075	0.2164955	0.2186911
ZINC	206.200	Axial	3172.097	1.070984	1.071878	1.071237	1.069838
ALUMINUM	308.215	Radial	477.6951	13.16706	13.06385	13.30833	13.12899
ANTIMONY	206.833	Axial	408.8462	1.034380	1.040480	1.033638	1.029022
BERYLLIUM	313.042	Radial	13247.44	1.032507	1.026669	1.037159	1.033693
CALCIUM	317.933	Radial	2316.868	10.43103	10.38189	10.48089	10.43031
MAGNESIUM	279.079	Radial	192.9917	10.19971	10.04590	10.25062	10.30261
MANGANESE	257.610	Axial	58364.28	1.074780	1.077275	1.071389	1.075676
MOLYBDENUM	202.030	Axial	2272.659	1.061512	1.068373	1.060555	1.055607
PHOSPHORUS	177.495	Axial	85.16062	1.065803	1.060875	1.077432	1.059101
POTASSIUM	766.490	Radial	2705.254	10.37536	10.33159	10.44761	10.34688
SILICON	251.611	Axial	1598.488	1.150183	1.155071	1.144971	1.150509
SODIUM	818.326	Radial	2457.945	74.54080	74.31383	74.74357	74.56500
STRONTIUM	421.552	Radial	18954.11	1.048038	1.038282	1.052989	1.052843
SULFUR	182.034	Axial	2799.330	46.43433	46.59730	46.52867	46.17703
THALLIUM	190.856	Axial	215.3519	1.103149	1.103565	1.098850	1.107033
TIN	189.989	Axial	346.3681	1.074908	1.081272	1.071020	1.072433
TITANIUM	334.941	Radial	797.2579	1.019828	1.011372	1.021099	1.027014
VANADIUM	292.402	Radial	284.2659	1.014162	1.006715	1.026543	1.009228
CERIUM	535.353	Radial	33.61210	0.01510815	0.003516995	-0.03384089	0.07564833
LANTHANUM	333.749	Radial	3.102540	0.005993526	0.01560696	0.0007973527	0.001576262

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835003-01 DF: 1x Batch: WG2468629 Units: mg/l
Analyzed: 03/14/25 09:47 Sequence: 44

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12755.25	12736.67	12785.73	12743.36
YTTRIUM	360.073	Axial	195865.5	195907.1	196427.9	195261.6
YTTRIUM	360.073	Radial	3011.331	3031.661	3003.953	2998.380
INDIUM	230.606	Axial	5237.935	5231.795	5246.362	5235.647

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
IRON	259.940	Radial	5.693496	0.05527538	0.05908196	0.05185450	0.05488968
ALUMINUM	308.215	Radial	1.963117	0.05632874	0.01686921	0.04606996	0.1060471
ANTIMONY	206.833	Axial	2.042964	-0.0002626392	-0.002779866	0.0006920169	0.001299931
ARSENIC	189.042	Axial	0.5309859	0.001027488	0.0005979341	0.003477743	-0.0009932123
BARIUM	233.527	Axial	147.2066	0.04385221	0.04433914	0.04398076	0.04323672
BERYLLIUM	313.042	Radial	5.110259	0.0002617603	0.0004109634	0.0002482159	0.0001261017
BORON	249.678	Radial	2.166306	0.03663723	0.04553758	0.03341279	0.03096133
CADMIUM	228.802	Axial	-10.5729	0.00004776157	0.00003919144	0.0001061463	-0.000002052999
CALCIUM	317.933	Radial	6120.785	28.36891	28.27626	28.41203	28.41844
CERIUM	535.353	Radial	42.28462	0.08119171	0.04592198	0.1711871	0.02646607
CHROMIUM	267.716	Axial	1.364436	0.0007565836	-0.000007959203	0.0009383521	0.001339358
COBALT	228.616	Axial	-0.7425048	-0.00001987106	-0.0005064855	0.0002269297	0.0002199427
COPPER	324.754	Axial	475.8566	0.004372833	0.004619265	0.004798852	0.003700382
LANTHANUM	333.749	Radial	0.7591327	-0.002522880	-0.006558163	0.003955189	-0.004965665
LEAD	220.353	Axial	1.661306	0.001036070	0.0009323369	0.002441989	-0.0002661145
LITHIUM	670.784	Radial	69.21069	0.005272348	0.004976868	0.004879015	0.005961161
MAGNESIUM	279.079	Radial	33.39721	1.811085	1.780701	1.842037	1.810516
MANGANESE	257.610	Axial	389.6910	0.006930791	0.006968471	0.006937913	0.006885990
MOLYBDENUM	202.030	Axial	5.579377	0.002727695	0.002972137	0.002923586	0.002287362
NICKEL	231.604	Axial	12.86360	0.0009689144	0.0008909737	0.001423782	0.0005919872
PHOSPHORUS	177.495	Axial	-5.41981	0.03689775	0.03647072	0.02843148	0.04579104
POTASSIUM	766.490	Radial	1102.927	4.190702	4.240529	4.185198	4.146377
SELENIUM	196.090	Axial	0.1886594	-0.005244872	-0.01274799	-0.001423839	-0.001562783
SILICON	251.611	Axial	3669.438	2.574184	2.579726	2.562108	2.580719
SILVER	328.068	Axial	17.19275	0.0006941051	0.0002460252	0.002237461	-0.0004011706
SODIUM	589.592	Radial	2308.712	2.882983	2.870752	2.911291	2.866906
STRONTIUM	421.552	Radial	3238.951	0.1773327	0.1771855	0.1773323	0.1774804
SULFUR	182.034	Axial	122.6202	1.978404	1.994546	1.983084	1.957581
THALLIUM	190.856	Axial	0.2474350	0.002371938	0.002115108	0.004317988	0.0006827172
TIN	189.989	Axial	0.01131818	0.001775483	0.003280172	0.0008964296	0.001149846
TITANIUM	334.941	Radial	6.369309	0.006277282	0.005190609	0.005043096	0.008598139
VANADIUM	292.402	Radial	0.7774253	0.003470704	0.007460656	-0.000003137565	0.002954595
ZINC	206.200	Axial	33.11484	0.01010773	0.01029965	0.009900800	0.01012276

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835082-01 DF: 1x Batch: WG2468629 Units: mg/l
Analyzed: 03/14/25 09:50 Sequence: 45

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12339.40	12363.79	12316.43	12337.97
YTTRIUM	360.073	Axial	189809.9	189666.7	190131.1	189632.0
YTTRIUM	360.073	Radial	2973.235	2955.696	2968.117	2995.892
INDIUM	230.606	Axial	4881.660	4879.329	4874.722	4890.930

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.9745623	0.003245514	0.003880847	0.006492340	-0.0006366446
CADMIUM	228.802	Axial	-10.8830	-0.00001988051	0.00007992078	0.00001623933	-0.0001558017
CHROMIUM	267.716	Axial	43.03791	0.004948232	0.004785019	0.004932072	0.005127606
COPPER	324.754	Axial	1279.605	0.04639803	0.04681269	0.04529522	0.04708619
LEAD	220.353	Axial	0.9519256	0.0003266235	0.001240279	-0.001670569	0.001410160
NICKEL	231.604	Axial	30.56982	0.008957272	0.008851845	0.009120729	0.008899241
SELENIUM	196.090	Axial	0.4581673	-0.001816384	-0.002790146	-0.008900173	0.006241166
SILVER	328.068	Axial	7.625657	-0.0001612989	0.000002386146	0.0005116237	-0.0009979065
ZINC	206.200	Axial	394.1209	0.1349784	0.1350082	0.1357143	0.1342127
ALUMINUM	308.215	Radial	-0.4566417	-0.01010482	-0.005338765	-0.02855587	0.003580174
ANTIMONY	206.833	Axial	-0.03613235	-0.005484457	-0.006504597	-0.006804068	-0.003144706
BARIUM	233.527	Axial	108.2836	0.03372131	0.03397065	0.03367239	0.03352087
BERYLLIUM	313.042	Radial	-0.7747922	-0.0001923775	-0.0001521172	-0.00002158611	-0.0004034290
BORON	249.678	Radial	6.100051	0.1175167	0.1193343	0.1460187	0.08719700
CALCIUM	373.690	Radial	12435.68	68.79950	69.17369	69.20978	68.01503
CERIUM	535.353	Radial	34.03745	0.01985076	0.04348665	0.09223671	-0.07617109
COBALT	228.616	Axial	3.742650	0.0008686151	0.0007079638	0.001193710	0.0007041720
IRON	259.940	Radial	201.3860	1.801820	1.813357	1.801628	1.790474
LANTHANUM	333.749	Radial	2.364949	0.003348959	0.008366424	-0.006482938	0.008163389
LITHIUM	670.784	Radial	89.35824	0.009400041	0.008298055	0.007098711	0.01280336
MAGNESIUM	279.079	Radial	170.0867	9.031753	9.105950	9.098188	8.891122
MANGANESE	257.610	Axial	2245.974	0.04151347	0.04172613	0.04115051	0.04166377
MOLYBDENUM	202.030	Axial	109.1259	0.05216482	0.05249261	0.05188196	0.05211988
PHOSPHORUS	177.495	Axial	14.23771	0.2628954	0.2522447	0.2561871	0.2802543
POTASSIUM	766.490	Radial	1880.541	7.238959	7.289730	7.262833	7.164312
SILICON	251.611	Axial	4989.250	3.612513	3.607010	3.599170	3.631359
SODIUM	818.326	Radial	3442.894	104.3180	104.4523	105.1971	103.3047
STRONTIUM	421.552	Radial	7320.657	0.4062000	0.4093369	0.4083852	0.4008779
SULFUR	182.034	Axial	3038.664	51.44295	51.54087	51.39566	51.39232
THALLIUM	190.856	Axial	-0.05888466	0.0008677736	0.0007536554	0.002324473	-0.0004748082
TIN	189.989	Axial	24.94687	0.08061649	0.08445367	0.07687882	0.08051698
TITANIUM	334.941	Radial	14.90784	0.01737017	0.01698840	0.02163082	0.01349130
VANADIUM	292.402	Radial	-0.5200308	-0.001146186	-0.0001827917	-0.009576127	0.006320360

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835192-01 DF: 1x Batch: WG2468629 Units: mg/l
Analyzed: 03/14/25 09:53 Sequence: 46

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12559.48	12566.47	12564.30	12547.66
YTTRIUM	360.073	Axial	193508.7	193479.1	193313.3	193733.7
YTTRIUM	360.073	Radial	2964.873	2958.366	2962.361	2973.893
INDIUM	230.606	Axial	5121.585	5149.651	5129.202	5085.903

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	1.232699	0.004381068	0.007207358	-0.0007190042	0.006654850
BARIUM	233.527	Axial	261.4009	0.07781941	0.07846694	0.07769726	0.07729402
BORON	249.678	Radial	4.052822	0.07591511	0.08005322	0.06804983	0.07964229
CADMIUM	228.802	Axial	-13.2297	-0.0002383359	-0.0004038831	-0.00009044862	-0.0002206759
CHROMIUM	267.716	Axial	1.411182	0.0007619407	0.0002374832	0.0005412074	0.001507131
COBALT	228.616	Axial	6.682929	0.001393440	0.001553120	0.001512827	0.001114373
LEAD	220.353	Axial	2.472202	0.001992506	0.003077964	0.002222416	0.0006771377
LITHIUM	670.784	Radial	54.56066	0.002587958	0.002836163	0.002201045	0.002726666
SELENIUM	196.090	Axial	0.6085886	-0.00007759465	-0.003433099	0.007801524	-0.004601209
SILVER	328.068	Axial	8.811051	-0.00006400528	-0.0005726944	0.0005116871	-0.0001310085
ALUMINUM	308.215	Radial	18.25759	0.5089927	0.4754974	0.5413270	0.5101536
ANTIMONY	206.833	Axial	0.6464679	-0.003741140	-0.006155025	-0.003336544	-0.001731852
BERYLLIUM	313.042	Radial	3.775765	0.0001637800	-0.00007355386	0.0004823574	0.00008253645
CALCIUM	317.933	Radial	10218.34	48.55744	48.67555	48.65424	48.34254
CERIUM	535.353	Radial	31.31326	-0.001499531	-0.03983230	0.07683501	-0.04150130
COPPER	324.754	Axial	497.3634	0.005745334	0.005636217	0.005634287	0.005965497
IRON	259.940	Radial	75.15823	0.6775304	0.6787936	0.6692715	0.6845262
LANTHANUM	333.749	Radial	0.6474498	-0.002882978	0.002970797	0.001846042	-0.01346577
MAGNESIUM	279.079	Radial	199.0896	10.58803	10.58049	10.58477	10.59883
MANGANESE	257.610	Axial	20579.22	0.3735753	0.3736367	0.3728657	0.3742234
MOLYBDENUM	202.030	Axial	2.604711	0.001375050	0.001069277	0.001777343	0.001278530
NICKEL	231.604	Axial	29.67670	0.007976180	0.007456789	0.008526994	0.007944757
PHOSPHORUS	177.495	Axial	5.660414	0.1622358	0.1510120	0.1689173	0.1667780
POTASSIUM	766.490	Radial	2121.756	8.190398	8.111170	8.256845	8.203179
SILICON	251.611	Axial	4180.567	2.968746	2.978434	2.950166	2.977638
SODIUM	589.592	Radial	7077.945	9.294434	9.335752	9.298937	9.248614
STRONTIUM	421.552	Radial	3810.795	0.2119459	0.2116883	0.2122864	0.2118631
SULFUR	182.034	Axial	1863.934	30.98996	31.39634	31.06031	30.51321
THALLIUM	190.856	Axial	0.04216446	0.001385660	0.002434364	-0.001447043	0.003169659
TIN	189.989	Axial	-0.2264796	0.001035996	-0.0005531411	0.002948021	0.0007131099
TITANIUM	334.941	Radial	11.06696	0.01245706	0.01041621	0.01406166	0.01289331
VANADIUM	292.402	Radial	-0.1974654	0.00003753314	0.01255395	-0.009444600	-0.002996753
ZINC	206.200	Axial	29.25389	0.008971409	0.009199706	0.008942550	0.008771971

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835192-03 DF: 1x Batch: WG2468629 Units: mg/l
Analyzed: 03/14/25 09:56 Sequence: 47

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12564.00	12563.88	12567.36	12560.78
YTTRIUM	360.073	Axial	193507.3	193379.2	194323.8	192818.8
YTTRIUM	360.073	Radial	2975.746	2963.102	2986.689	2977.447
INDIUM	230.606	Axial	5086.930	5103.449	5101.773	5055.569

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.7732647	0.002210072	-0.004568118	0.009410844	0.001787488
BARIUM	233.527	Axial	301.6418	0.08952536	0.09037532	0.08996340	0.08823735
BORON	249.678	Radial	1.914699	0.03209814	0.05014137	0.02767599	0.01847708
CADMIUM	228.802	Axial	-10.7615	0.00001263607	-0.00001444135	-0.0001878543	0.0002402039
CHROMIUM	267.716	Axial	6.275677	0.001243333	0.001247516	0.0006641207	0.001818363
COBALT	228.616	Axial	1.729668	0.0004498339	0.001099928	0.0002737482	-0.00002417430
LEAD	220.353	Axial	1.623670	0.001050544	-0.0001069226	0.001659638	0.001598917
LITHIUM	670.784	Radial	46.99941	0.001058380	0.0009061051	0.002854846	-0.0005858124
SELENIUM	196.090	Axial	0.3035147	-0.003802373	0.0002655061	-0.007524203	-0.004148422
SILVER	328.068	Axial	-9.36918	-0.001757089	-0.001835926	-0.001438135	-0.001997207
ALUMINUM	308.215	Radial	14.01857	0.3899434	0.3516895	0.3873632	0.4307776
ANTIMONY	206.833	Axial	0.2181340	-0.004834801	-0.0001794353	-0.005836270	-0.008488699
BERYLLIUM	313.042	Radial	2.025836	0.00002613261	0.0001029367	-0.00008063130	0.00005609242
CALCIUM	317.933	Radial	9692.216	45.85316	45.99488	45.70713	45.85748
CERIUM	535.353	Radial	16.00942	-0.1245613	-0.1181676	-0.1336043	-0.1219121
COPPER	324.754	Axial	456.9952	0.003712835	0.003609509	0.003653448	0.003875548
IRON	259.940	Radial	55.36614	0.4986766	0.5039521	0.4902005	0.5018771
LANTHANUM	333.749	Radial	1.128521	-0.001150103	0.0009299661	-0.002850889	-0.001529385
MAGNESIUM	279.079	Radial	149.2002	7.924505	7.864480	8.031646	7.877389
MANGANESE	257.610	Axial	4522.008	0.08204286	0.08190297	0.08202966	0.08219594
MOLYBDENUM	202.030	Axial	3.196296	0.001651496	0.001225864	0.002140093	0.001588531
NICKEL	231.604	Axial	17.09810	0.002868725	0.003173665	0.002697294	0.002735215
PHOSPHORUS	177.495	Axial	-1.69670	0.07838371	0.08567204	0.07289988	0.07657922
POTASSIUM	766.490	Radial	1557.711	5.990669	6.016373	5.964281	5.991352
SILICON	251.611	Axial	1727.182	1.225347	1.221754	1.234777	1.219510
SODIUM	589.592	Radial	14600.98	19.26169	19.28752	19.22054	19.27702
STRONTIUM	421.552	Radial	3922.206	0.2173504	0.2176643	0.2174989	0.2168879
SULFUR	182.034	Axial	940.4638	15.61534	15.75533	15.62640	15.46429
THALLIUM	190.856	Axial	-0.2243118	0.00003738974	0.003530068	0.001297908	-0.004715806
TIN	189.989	Axial	0.1608291	0.002239321	0.002823461	0.0005476972	0.003346804
TITANIUM	334.941	Radial	11.49478	0.01294745	0.009041114	0.01533433	0.01446690
VANADIUM	292.402	Radial	0.6920179	0.003216949	0.005663934	0.001025672	0.002961242
ZINC	206.200	Axial	19.92627	0.005808624	0.005749641	0.006154903	0.005521328

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/14/25 09:58 Sequence: 48 Standard ID: 25C10358

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12300.17	12282.45	12312.71	12305.36
YTTRIUM	360.073	Axial	188519.5	188307.4	188678.0	188573.2
YTTRIUM	360.073	Radial	2937.608	2969.445	2925.158	2918.220
INDIUM	230.606	Axial	4862.904	4862.114	4880.861	4845.737

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	366.7426	10.27023	10.23794	10.28054	10.29220
ANTIMONY	206.833	Axial	198.7562	0.5121131	0.5166996	0.5136725	0.5059673
ARSENIC	189.042	Axial	214.8307	1.033759	1.041957	1.034693	1.024626
BARIUM	233.527	Axial	1809.262	0.5404283	0.5426439	0.5422816	0.5363596
BERYLLIUM	313.042	Radial	2592.923	0.2052038	0.2045358	0.2054372	0.2056384
BORON	249.678	Radial	51.19130	1.049122	1.078787	1.059128	1.009451
CADMIUM	228.802	Axial	4964.144	0.5156635	0.5170421	0.5162137	0.5137347
CALCIUM	317.933	Radial	10495.20	50.36207	49.90999	50.55723	50.61900
CHROMIUM	267.716	Axial	10259.99	1.038734	1.044594	1.037496	1.034113
COBALT	228.616	Axial	4988.199	1.002781	1.004015	1.000466	1.003860
COPPER	324.754	Axial	20106.35	1.020104	1.018322	1.023770	1.018221
IRON	259.940	Radial	1128.223	10.19250	10.18541	10.19414	10.19794
LEAD	220.353	Axial	425.1680	0.5065553	0.5096947	0.5076995	0.5022716
LITHIUM	670.784	Radial	5213.870	1.031342	1.023295	1.034947	1.035785
MAGNESIUM	279.079	Radial	183.9885	9.881935	9.685161	9.864273	10.09637
MANGANESE	257.610	Axial	55847.66	1.040742	1.041691	1.041135	1.039402
MOLYBDENUM	202.030	Axial	545.9592	0.2611924	0.2634388	0.2617844	0.2583541
NICKEL	231.604	Axial	2328.949	1.000877	1.001429	1.000832	1.000371
PHOSPHORUS	177.495	Axial	79.89592	1.027568	1.023316	1.025457	1.033930
POTASSIUM	766.490	Radial	12891.23	50.23747	49.82168	50.36998	50.52075
SELENIUM	196.090	Axial	82.90395	1.026263	1.030740	1.021216	1.026833
SILICON	251.611	Axial	2915.440	2.124570	2.118956	2.131864	2.122890
SILVER	328.068	Axial	5647.883	0.5387069	0.5386561	0.5389097	0.5385548
SODIUM	589.592	Radial	38058.55	51.10724	50.68809	51.34218	51.29144
STRONTIUM	421.552	Radial	18302.30	1.028122	1.020703	1.032937	1.030726
SULFUR	182.034	Axial	303.4399	5.125551	5.131301	5.141182	5.104168
THALLIUM	190.856	Axial	206.3079	1.079368	1.078854	1.071877	1.087373
TIN	189.989	Axial	166.0283	0.5283926	0.5275149	0.5294156	0.5282474
TITANIUM	334.941	Radial	792.2782	1.029629	1.022555	1.032981	1.033351
VANADIUM	292.402	Radial	282.8567	1.025152	1.028123	1.022699	1.024635
ZINC	206.200	Axial	3024.558	1.045450	1.048152	1.045306	1.042892
CERIUM	535.353	Radial	30.47448	-0.006213447	0.03513188	-0.02390267	-0.02986955
LANTHANUM	333.749	Radial	0.7683732	-0.002458805	0.001526089	0.003372880	-0.01227538

Sample ID: CCB Units: mg/l
Analyzed: 03/14/25 10:01 Sequence: 49

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12657.52	12642.84	12674.12	12655.60
YTTRIUM	360.073	Axial	196592.7	196624.7	196389.0	196764.3
YTTRIUM	360.073	Radial	2949.295	2959.683	2955.794	2932.409
INDIUM	230.606	Axial	5377.291	5380.699	5369.306	5381.867

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-2.30342	-0.06172179	-0.08379984	-0.01632187	-0.08504365
ANTIMONY	206.833	Axial	2.210343	0.0002011993	-0.0001315491	0.001546986	-0.0008118385
ARSENIC	189.042	Axial	0.7312344	0.001987330	0.002079870	0.001394888	0.002487231
BARIUM	233.527	Axial	-6.79679	-0.0003934490	-0.0007616304	-0.0003188031	-0.00009991364
BERYLLIUM	313.042	Radial	1.610843	-0.000005178967	-0.0001128239	0.00003146553	0.00006582152
BORON	249.678	Radial	1.152586	0.01671262	-0.01034802	0.06311578	-0.002629906
CADMIUM	228.802	Axial	-10.4104	0.00005601016	-0.00003610986	0.00003371888	0.0001704215
CALCIUM	317.933	Radial	134.3665	-0.003709894	-0.001050096	-0.01239994	0.002320350
CERIUM	535.353	Radial	34.71644	0.02731023	-0.07351060	0.1004362	0.05500508
CHROMIUM	267.716	Axial	-4.30083	0.0002060311	-0.0001357929	0.0004778546	0.0002760315
COBALT	228.616	Axial	-0.7284229	-0.00001298307	-0.0001296896	0.0005754444	-0.0004847041
COPPER	324.754	Axial	418.7497	0.001455724	0.001474384	0.001909925	0.0009828623
IRON	259.940	Radial	0.9442871	0.01361322	0.02119089	0.01074412	0.008904663
LANTHANUM	333.749	Radial	3.286489	0.006803353	-0.001095607	0.02030338	0.001202286
LEAD	220.353	Axial	0.3361109	-0.0004411536	0.0002207158	-0.001004916	-0.0005392609
LITHIUM	670.784	Radial	31.23091	-0.001988772	-0.001734837	-0.001940965	-0.002290514
MAGNESIUM	279.079	Radial	-1.40254	0.0003421335	-0.09292275	0.02160614	0.07234301
MANGANESE	257.610	Axial	9.225081	0.0001056245	0.00004265501	0.0001066415	0.0001675769
MOLYBDENUM	202.030	Axial	-0.1700918	0.00007629859	0.00002125744	0.0002171737	-0.000009535382
NICKEL	231.604	Axial	9.526351	-0.0004669173	-0.0003126859	-0.0006958320	-0.0003922341
PHOSPHORUS	177.495	Axial	-8.32792	0.003522904	-0.007302082	0.008124550	0.009746244
POTASSIUM	766.490	Radial	-52.3523	-0.2054467	-0.1505707	-0.1802930	-0.2854765
SELENIUM	196.090	Axial	0.3892484	-0.002794916	-0.01098758	-0.0008086320	0.003411464
SILICON	251.611	Axial	17.41222	0.01018688	0.01060188	0.008267491	0.01169127
SILVER	328.068	Axial	5.305557	-0.0003978394	-0.002209767	0.0008756554	0.0001405937
SODIUM	589.592	Radial	30.55046	-0.1092374	-0.09749099	-0.1049493	-0.1252719
STRONTIUM	421.552	Radial	6.341536	0.0001692134	0.0002937236	0.0003362237	-0.0001223071
SULFUR	182.034	Axial	2.245547	0.006056308	0.004188204	0.01043873	0.003541988
THALLIUM	190.856	Axial	-0.4303063	-0.0008629147	-0.002246678	-0.003344109	0.003002042
TIN	189.989	Axial	0.2316314	0.002454892	0.004195271	0.001071634	0.002097772
TITANIUM	334.941	Radial	0.9720602	-0.0005542370	-0.001170254	-0.0004148055	-0.00007765120
VANADIUM	292.402	Radial	0.4162873	0.002217404	0.008972800	0.002234619	-0.004555205
ZINC	206.200	Axial	2.913527	0.00003904088	-0.00002221465	0.0002924906	-0.0001531533

Sample ID: ICSA Units: mg/l
Analyzed: 03/14/25 13:46 Sequence: 117 Standard ID: 25C10359

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10941.63	10956.16	10936.11	10932.62
YTTRIUM	360.073	Axial	168458.2	168374.6	167706.1	169293.9
YTTRIUM	360.073	Radial	2787.389	2797.823	2776.908	2787.436
INDIUM	230.606	Axial	4083.280	4092.383	4073.877	4083.579

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	17205.13	507.6462	507.1312	508.9249	506.8825
ANTIMONY	206.833	Axial	-0.1370819	-0.005797299	0.002675281	-0.01177411	-0.008293062
ARSENIC	189.042	Axial	0.1076191	-0.0008533045	-0.002320282	0.001565301	-0.001804932
BARIUM	233.527	Axial	-0.7050199	0.001337484	0.001766611	0.001462812	0.0007830293
BERYLLIUM	313.042	Radial	-0.6930257	-0.0001912550	0.0002274694	-0.0005299252	-0.0002713091
BORON	249.678	Radial	0.2358937	-0.001822686	0.008394640	-0.005118569	-0.008744129
CADMIUM	228.802	Axial	-8.90264	0.00006754436	-0.0003352739	0.0002990439	0.0002388631
CALCIUM	373.690	Radial	85075.16	502.2383	500.8418	503.7682	502.1048
CERIUM	535.353	Radial	-6.15789	-0.3047088	-0.3293634	-0.2523422	-0.3324207
CHROMIUM	267.716	Axial	11.04280	0.001874429	0.001677574	0.002252649	0.001693064
COBALT	228.616	Axial	1.556529	0.0004924603	-0.0003213518	0.0008570602	0.0009416724
COPPER	324.754	Axial	340.6615	0.0004040483	-0.0007262166	0.0008185600	0.001119801
IRON	271.441	Radial	1500.972	198.0527	197.9790	198.5549	197.6240
LANTHANUM	333.749	Radial	-3.01445	-0.01702867	-0.003761438	-0.03289061	-0.01443395
LEAD	220.353	Axial	0.2187341	-0.0004914659	-0.0007214678	0.0007651977	-0.001518128
LITHIUM	670.784	Radial	129.6485	0.01904955	0.02045126	0.01903832	0.01765907
MAGNESIUM	279.079	Radial	8912.388	500.6902	499.7434	503.1553	499.1720
MANGANESE	257.610	Axial	70.63528	0.001414239	0.002070914	0.001131675	0.001040128
MOLYBDENUM	202.030	Axial	-0.02997940	0.0001397053	-0.0004882871	0.0005729763	0.0003344268
NICKEL	231.604	Axial	20.99503	0.006604213	0.006790793	0.004813439	0.008208407
PHOSPHORUS	177.495	Axial	-6.74767	0.009434529	0.007082555	0.01324015	0.007980878
POTASSIUM	766.490	Radial	-49.3052	-0.2045291	-0.1609083	-0.1847259	-0.2679531
SELENIUM	196.090	Axial	1.124362	0.008246986	0.01792268	0.0004753486	0.006342930
SILICON	251.611	Axial	-10.2780	-0.01038620	-0.01173233	-0.01129570	-0.008130582
SILVER	328.068	Axial	-19.5596	-0.002972095	-0.002955265	-0.001887638	-0.004073381
SODIUM	589.592	Radial	198.5394	0.1315856	0.1400638	0.1116060	0.1430870
STRONTIUM	421.552	Radial	126.2002	0.007288058	0.006857360	0.007301682	0.007705133
SULFUR	182.034	Axial	6.067987	0.08491581	0.05809058	0.09194625	0.1047106
THALLIUM	190.856	Axial	0.2752129	0.002883205	0.002047562	-0.001017624	0.007619677
TIN	189.989	Axial	-2.26527	-0.006338901	-0.004625593	-0.01112178	-0.003269329
TITANIUM	334.941	Radial	31.90259	0.04195346	0.04385220	0.04372997	0.03827821
VANADIUM	292.402	Radial	-1.37787	-0.004519624	-0.002613609	-0.0002365045	-0.01070876
ZINC	206.200	Axial	32.92602	0.01186558	0.01133082	0.01250193	0.01176399

Sample ID: ICSAB Units: mg/l
Analyzed: 03/14/25 13:48 Sequence: 118 Standard ID: 25C10360

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11034.98	11035.90	11045.95	11023.10
YTTRIUM	360.073	Axial	169686.1	169316.6	169961.6	169780.1
YTTRIUM	360.073	Radial	2806.663	2810.345	2790.489	2819.156
INDIUM	230.606	Axial	4089.656	4083.311	4086.670	4098.987

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	17529.38	513.6637	511.5459	515.6682	513.7770
ANTIMONY	206.833	Axial	176.6870	0.5073896	0.5053837	0.5147146	0.5020704
ARSENIC	189.042	Axial	96.75625	0.5182506	0.5255872	0.5146310	0.5145335
BARIUM	233.527	Axial	1620.971	0.5396998	0.5408033	0.5397576	0.5385385
BERYLLIUM	313.042	Radial	6095.984	0.5051314	0.5044410	0.5062440	0.5047091
BORON	249.678	Radial	48.08398	1.031476	1.000624	1.040926	1.052878
CADMIUM	228.802	Axial	9185.361	1.062373	1.066071	1.062005	1.059044
CALCIUM	373.690	Radial	86301.32	505.9799	505.6597	507.5992	504.6809
CERIUM	535.353	Radial	-9.19102	-0.3300663	-0.3404953	-0.3143853	-0.3353183
CHROMIUM	267.716	Axial	4306.405	0.4847074	0.4855865	0.4854826	0.4830529
COBALT	228.616	Axial	2079.847	0.4972305	0.5006912	0.4981792	0.4928211
COPPER	324.754	Axial	10006.34	0.5553945	0.5568470	0.5552883	0.5540483
IRON	271.441	Radial	1501.097	196.7108	196.9421	197.4006	195.7897
LANTHANUM	333.749	Radial	-2.04054	-0.01311119	-0.01253594	-0.002029684	-0.02476794
LEAD	220.353	Axial	713.7247	1.011944	1.010714	1.017077	1.008042
LITHIUM	670.784	Radial	129.0137	0.01874066	0.01477221	0.02257023	0.01887955
MAGNESIUM	279.079	Radial	9073.053	506.2148	504.2449	508.0118	506.3878
MANGANESE	257.610	Axial	24385.40	0.5048398	0.5070617	0.5047342	0.5027235
MOLYBDENUM	202.030	Axial	938.8944	0.5005317	0.5004616	0.4997785	0.5013550
NICKEL	231.604	Axial	1932.690	0.9875750	0.9927252	0.9864501	0.9835496
PHOSPHORUS	177.495	Axial	-5.96667	0.02031372	0.008992528	0.02376471	0.02818393
POTASSIUM	766.490	Radial	-25.8829	-0.1075020	-0.08767044	-0.09241216	-0.1424235
SELENIUM	196.090	Axial	37.07299	0.5077693	0.5084029	0.5140186	0.5008864
SILICON	251.611	Axial	1261.105	1.019975	1.024707	1.025857	1.009362
SILVER	328.068	Axial	8461.364	0.8972253	0.8894478	0.8790770	0.9231510
SODIUM	589.592	Radial	255.9838	0.2106168	0.1987782	0.2020220	0.2310502
STRONTIUM	421.552	Radial	128.5072	0.007371369	0.007508691	0.007187280	0.007418137
SULFUR	182.034	Axial	9.033545	0.1400935	0.1457208	0.1326614	0.1418983
THALLIUM	190.856	Axial	85.40640	0.5319177	0.5391791	0.5378035	0.5187706
TIN	189.989	Axial	133.9665	0.4754100	0.4784367	0.4778376	0.4699556
TITANIUM	334.941	Radial	410.0977	0.5569688	0.5571236	0.5575041	0.5562787
VANADIUM	292.402	Radial	123.2797	0.4680223	0.4702286	0.4581695	0.4756689
ZINC	206.200	Axial	2540.836	0.9788817	0.9838151	0.9774111	0.9754190

Sample ID: CCVLL Units: mg/l
Analyzed: 03/14/25 14:23 Sequence: 121 Standard ID: 25C10351

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12481.03	12480.63	12480.88	12481.56
YTTRIUM	360.073	Axial	196613.2	196705.1	196737.2	196397.2
YTTRIUM	360.073	Radial	2931.592	2949.916	2924.707	2920.152
INDIUM	230.606	Axial	5253.598	5231.108	5241.920	5287.766

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	7.683756	0.2182373	0.1754249	0.2745223	0.2047646
ANTIMONY	206.833	Axial	6.293154	0.01075740	0.008197193	0.01303013	0.01104488
ARSENIC	189.042	Axial	2.671234	0.01124814	0.01420235	0.007982996	0.01155907
BARIUM	233.527	Axial	13.15664	0.005435522	0.005446925	0.005374277	0.005485365
BERYLLIUM	313.042	Radial	27.30101	0.002033543	0.002160636	0.001935197	0.002004797
BORON	249.678	Radial	10.95651	0.2195882	0.2233246	0.2097687	0.2256715
CADMIUM	228.802	Axial	8.175901	0.001939854	0.002040171	0.001791931	0.001987460
CALCIUM	317.933	Radial	354.8668	1.074230	1.059909	1.083091	1.079689
CHROMIUM	267.716	Axial	98.45377	0.01017458	0.01063930	0.01000691	0.009877542
COBALT	228.616	Axial	52.29161	0.009849148	0.009724368	0.01031728	0.009505793
COPPER	324.754	Axial	614.6888	0.01116566	0.01138186	0.01065894	0.01145618
IRON	259.940	Radial	12.38682	0.1171719	0.1306267	0.1086609	0.1122281
LEAD	220.353	Axial	5.610822	0.005393289	0.005057773	0.005515022	0.005607071
LITHIUM	670.784	Radial	109.5790	0.01370918	0.01146230	0.01430123	0.01536401
MAGNESIUM	279.079	Radial	17.49708	1.008827	1.080624	0.9510247	0.9948312
MANGANESE	257.610	Axial	614.6339	0.01092385	0.01085932	0.01095291	0.01095931
MOLYBDENUM	202.030	Axial	9.612743	0.004684884	0.004556021	0.004403859	0.005094771
NICKEL	231.604	Axial	34.10310	0.009440752	0.01022234	0.009359164	0.008740757
PHOSPHORUS	177.495	Axial	0.9141107	0.1082001	0.1086995	0.1068064	0.1090943
POTASSIUM	766.490	Radial	232.6418	0.9063377	0.9369812	0.9499664	0.8320655
SELENIUM	196.090	Axial	1.608404	0.01225755	0.01106093	0.02043868	0.005273043
SILICON	251.611	Axial	280.0527	0.1938743	0.1949451	0.1929471	0.1937308
SILVER	328.068	Axial	71.26229	0.005643212	0.006430981	0.005857437	0.004641219
SODIUM	589.592	Radial	882.8112	1.041169	1.045188	1.057294	1.021024
STRONTIUM	421.552	Radial	199.6704	0.01105456	0.01158715	0.01065424	0.01092229
SULFUR	182.034	Axial	63.61029	1.034288	1.043281	1.013583	1.046001
THALLIUM	190.856	Axial	1.974585	0.01073489	0.009950579	0.01521472	0.007039385
TIN	189.989	Axial	17.06612	0.05509004	0.05066140	0.05479387	0.05981484
TITANIUM	334.941	Radial	42.08558	0.05307951	0.05417141	0.05508977	0.04997735
VANADIUM	292.402	Radial	6.040198	0.02265992	0.02222114	0.02073879	0.02501983
ZINC	206.200	Axial	175.1036	0.05876144	0.05811787	0.05890413	0.05926231
CERIUM	535.353	Radial	35.59129	0.03570763	0.1044929	0.08828765	-0.08565769
LANTHANUM	333.749	Radial	1.471977	0.0001676120	0.003409584	-0.003001899	0.00009515081

Sample ID: CALBLK Units: mg/l
Analyzed: 03/18/25 06:03 Sequence: 2 Standard ID: 25C17417

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12722.43	12721.57	12741.94	12703.78
YTTRIUM	360.073	Axial	193783.6	193522.9	194505.9	193322.0
YTTRIUM	360.073	Radial	2599.477	2637.958	2583.412	2577.061
INDIUM	230.606	Axial	5283.937	5271.086	5289.780	5290.946

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	5.728287	5.386888	5.426292	6.371682
ANTIMONY	206.833	Axial	1.132226	0.9669885	1.164761	1.264928
ARSENIC	189.042	Axial	0.1367361	-0.3095002	0.4196626	0.3000460
BARIUM	233.527	Axial	-7.67546	-8.677458	-6.867851	-7.481077
BERYLLIUM	313.042	Radial	2.166306	1.999667	3.832695	0.6665556
BORON	249.678	Radial	0.08331945	0.4721435	0.02777315	-0.2499583
CADMIUM	228.802	Axial	-11.2493	-13.53733	-10.12088	-10.08972
CALCIUM	317.933	Radial	117.3508	116.9250	117.2305	117.8970
CALCIUM	373.690	Radial	7.165472	4.624229	12.70622	4.165972
CERIUM	535.353	Radial	30.71710	35.11915	33.57774	23.45442
CHROMIUM	267.716	Axial	-8.62943	-6.606282	-9.953357	-9.328669
COBALT	228.616	Axial	-2.37590	-4.210672	-1.035748	-1.881286
COPPER	324.754	Axial	39.33688	42.17686	39.32037	36.51340
IRON	259.940	Radial	0.5415764	0.9165139	-0.3332778	1.041493
IRON	271.441	Radial	1.708049	3.749375	0.3332778	1.041493
LANTHANUM	333.749	Radial	1.138699	1.694162	0.2777315	1.444204
LEAD	220.353	Axial	-1.84693	-2.033856	-2.097921	-1.409017
LITHIUM	670.784	Radial	10.67878	5.165806	10.08165	16.78887
MAGNESIUM	279.079	Radial	-1.99966	-1.958007	-3.166139	-0.8748542
MANGANESE	257.610	Axial	-0.8156435	-4.362639	-3.456605	5.372314
MOLYBDENUM	202.030	Axial	-0.3737164	-0.2998001	0.06665186	-0.8880009
NICKEL	231.604	Axial	10.78531	10.68396	10.31914	11.35284
PHOSPHORUS	177.495	Axial	-0.4009076	-0.7266619	-0.2825832	-0.1934777
POTASSIUM	766.490	Radial	-47.6448	-44.82586	-60.86486	-37.24379
SELENIUM	196.090	Axial	1.057987	1.505577	-0.2537307	1.922115
SILICON	251.611	Axial	34.99668	27.94783	41.03298	36.00922
SILVER	328.068	Axial	-13.2185	-14.63913	-13.00274	-12.01367
SODIUM	589.592	Radial	-2.80508	-9.040160	-2.332945	2.957840
SODIUM	818.326	Radial	84.55535	80.27829	88.23529	85.15247
STRONTIUM	421.552	Radial	7.415431	5.457424	9.248459	7.540410
SULFUR	182.034	Axial	1.613775	0.7402472	1.895875	2.205202
THALLIUM	190.856	Axial	0.07448409	0.2979200	0.1598737	-0.2343415
TIN	189.989	Axial	0.5829142	0.7394205	1.081870	-0.07254786
TITANIUM	334.941	Radial	0.8887408	2.055213	-0.2221852	0.8331945
VANADIUM	292.402	Radial	-0.3888241	-0.7082153	-0.5832361	0.1249792
ZINC	206.200	Axial	102.6095	102.6538	102.5994	102.5752

Sample ID: STD1 Units: mg/l
Analyzed: 03/18/25 06:06 Sequence: 3 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12854.35	12870.56	12868.86	12823.65
YTTRIUM	360.073	Axial	195080.6	193382.3	195217.2	196642.4
YTTRIUM	360.073	Radial	2619.221	2634.348	2595.308	2628.006
INDIUM	230.606	Axial	5287.684	5285.241	5292.221	5285.591

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	12.58427	12.26292	11.19887	14.29102
ANTIMONY	206.833	Axial	4.943239	5.892751	3.764334	5.172632
ARSENIC	189.042	Axial	2.079556	2.454474	2.346577	1.437618
BARIUM	233.527	Axial	22.08988	23.49321	21.59698	21.17946
BERYLLIUM	313.042	Radial	24.60701	27.32878	22.49625	23.99600
BORON	249.678	Radial	9.766891	10.30384	9.165139	9.831695
CADMIUM	228.802	Axial	10.79125	13.72447	9.103298	9.545975
CALCIUM	317.933	Radial	316.0214	314.8920	316.6694	316.5028
CHROMIUM	267.716	Axial	123.0652	122.3989	123.8131	122.9835
COBALT	228.616	Axial	52.24468	54.69982	50.70648	51.32775
COPPER	324.754	Axial	238.2209	241.0007	238.4231	235.2388
IRON	259.940	Radial	15.34466	15.74738	14.49758	15.78904
LEAD	220.353	Axial	0.7980431	0.2227259	1.343601	0.8278025
LITHIUM	670.784	Radial	95.01194	101.4414	91.77637	91.81803
MAGNESIUM	279.079	Radial	17.91368	17.33044	17.74704	18.66356
MANGANESE	257.610	Axial	669.3088	670.2597	664.0013	673.6654
MOLYBDENUM	202.030	Axial	10.12312	10.70319	9.649512	10.01664
NICKEL	231.604	Axial	29.23512	29.08391	30.30594	28.31551
PHOSPHORUS	177.495	Axial	6.598723	6.544175	6.351988	6.900007
POTASSIUM	766.490	Radial	192.7040	187.9687	177.0955	213.0478
SELENIUM	196.090	Axial	2.865384	2.742152	3.322533	2.531465
SILICON	251.611	Axial	653.4208	648.8703	644.6194	666.7728
SILVER	328.068	Axial	73.43555	69.62984	76.00499	74.67181
SODIUM	589.592	Radial	719.7967	712.4229	718.3386	728.6286
STRONTIUM	421.552	Radial	243.2234	243.9593	241.5014	244.2093
SULFUR	182.034	Axial	65.51062	65.49098	66.38568	64.65520
THALLIUM	190.856	Axial	1.841317	2.043247	1.666913	1.813790
TIN	189.989	Axial	24.37412	25.91189	23.69335	23.51712
TITANIUM	334.941	Radial	36.54021	38.02144	34.68866	36.91051
VANADIUM	292.402	Radial	2.909237	1.478920	2.728712	4.520080
ZINC	206.200	Axial	328.3506	331.2999	326.3421	327.4099

Sample ID: STD2 Units: mg/l
Analyzed: 03/18/25 06:08 Sequence: 4 Standard ID: 25C18567

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12812.01	12842.30	12794.94	12798.78
YTTRIUM	360.073	Axial	193762.5	194996.1	191823.2	194468.2
YTTRIUM	360.073	Radial	2628.494	2632.746	2634.968	2617.767
INDIUM	230.606	Axial	5199.670	5221.941	5192.783	5184.287

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	70.91831	70.64001	72.29023	69.82471
ANTIMONY	206.833	Axial	40.42702	39.85800	41.48116	39.94190
ARSENIC	189.042	Axial	45.88537	45.45788	46.12518	46.07305
BARIUM	233.527	Axial	548.4499	551.7773	548.4823	545.0899
BERYLLIUM	313.042	Radial	487.7520	490.7515	487.5021	485.0025
CADMIUM	228.802	Axial	1065.011	1072.849	1066.077	1056.107
CALCIUM	317.933	Radial	2090.540	2095.956	2085.708	2089.957
CHROMIUM	267.716	Axial	2502.714	2508.890	2504.365	2494.887
COBALT	228.616	Axial	1048.197	1053.848	1050.001	1040.743
COPPER	324.754	Axial	3660.498	3661.922	3664.035	3655.537
IRON	259.940	Radial	281.5503	278.6202	280.4116	285.6191
LEAD	220.353	Axial	56.33501	57.05760	56.74524	55.20218
LITHIUM	670.784	Radial	946.7311	956.7572	934.9275	948.5086
MAGNESIUM	279.079	Radial	37.86869	34.41093	40.49325	38.70188
MANGANESE	257.610	Axial	12399.78	12427.59	12389.76	12381.98
MOLYBDENUM	202.030	Axial	99.41525	98.63379	100.1555	99.45652
NICKEL	231.604	Axial	353.1675	354.6773	353.6593	351.1658
PHOSPHORUS	177.495	Axial	14.96378	14.76767	15.56952	14.55416
POTASSIUM	766.490	Radial	2348.220	2365.772	2346.526	2332.361
SELENIUM	196.090	Axial	35.11495	34.53686	35.85959	34.94841
SILICON	251.611	Axial	1216.638	1212.447	1216.061	1221.405
SILVER	328.068	Axial	1632.184	1642.379	1625.316	1628.858
SODIUM	589.592	Radial	7243.876	7267.622	7225.379	7238.627
STRONTIUM	421.552	Radial	4765.178	4775.829	4763.331	4756.374
THALLIUM	190.856	Axial	43.15430	41.76294	43.60015	44.09980
TIN	189.989	Axial	46.88052	46.09852	47.07822	47.46480
TITANIUM	334.941	Radial	146.3275	145.1702	148.8085	145.0036
VANADIUM	292.402	Radial	32.33489	30.82820	31.72388	34.45259
ZINC	206.200	Axial	1009.957	1015.906	1012.092	1001.874

Sample ID: STD3 Units: mg/l
Analyzed: 03/18/25 06:11 Sequence: 5 Standard ID: 25C18568

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12717.86	12677.63	12722.77	12753.19
YTTRIUM	360.073	Axial	191889.3	190734.5	192461.4	192472.1
YTTRIUM	360.073	Radial	2619.400	2611.102	2615.375	2631.723
INDIUM	230.606	Axial	5093.109	5062.416	5099.959	5116.952

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	138.3299	140.6554	135.5627	138.7715
ANTIMONY	206.833	Axial	79.44936	78.54952	80.67261	79.12595
ARSENIC	189.042	Axial	92.75270	92.93454	92.08465	93.23891
BARIUM	233.527	Axial	1106.952	1107.949	1109.757	1103.151
BERYLLIUM	313.042	Radial	980.7365	973.3389	975.6118	993.2590
BORON	249.678	Radial	20.33865	22.45293	19.94895	18.61407
CADMIUM	228.802	Axial	2157.442	2165.144	2162.031	2145.152
CALCIUM	317.933	Radial	4089.253	4073.477	4072.471	4121.810
CHROMIUM	267.716	Axial	5012.857	5011.347	5016.872	5010.353
COBALT	228.616	Axial	2090.612	2102.600	2092.591	2076.646
COPPER	324.754	Axial	7185.137	7183.095	7171.501	7200.815
IRON	259.940	Radial	563.7938	561.8771	561.2202	568.2840
LEAD	220.353	Axial	112.1582	111.6701	111.2359	113.5685
LITHIUM	670.784	Radial	1918.574	1918.522	1908.815	1928.387
MAGNESIUM	279.079	Radial	76.53068	77.94850	74.28833	77.35519
MANGANESE	257.610	Axial	24719.74	24760.76	24654.81	24743.64
MOLYBDENUM	202.030	Axial	200.5997	201.2331	202.0651	198.5010
NICKEL	231.604	Axial	682.4167	680.6722	687.7481	678.8299
PHOSPHORUS	177.495	Axial	30.11511	29.57243	30.91074	29.86217
POTASSIUM	766.490	Radial	4762.357	4751.412	4747.961	4787.700
SELENIUM	196.090	Axial	68.36449	68.55669	68.43606	68.10072
SILICON	251.611	Axial	2458.230	2445.363	2446.562	2482.764
SILVER	328.068	Axial	3287.223	3270.131	3285.322	3306.216
SODIUM	589.592	Radial	13994.85	13964.04	13935.66	14084.85
STRONTIUM	421.552	Radial	9249.795	9220.889	9211.545	9316.952
SULFUR	182.034	Axial	129.5085	130.6302	128.9886	128.9067
THALLIUM	190.856	Axial	84.43142	85.40648	83.71463	84.17316
TIN	189.989	Axial	95.45147	95.31480	95.80610	95.23351
TITANIUM	334.941	Radial	295.1859	294.4075	297.3198	293.8304
VANADIUM	292.402	Radial	67.39555	69.06146	66.17280	66.95240
ZINC	206.200	Axial	1870.328	1875.872	1871.866	1863.247

Sample ID: STD4 Units: mg/l
Analyzed: 03/18/25 06:14 Sequence: 6 Standard ID: 25C18569

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12530.55	12529.69	12544.22	12517.74
YTTRIUM	360.073	Axial	188061.8	186658.6	187756.6	189770.2
YTTRIUM	360.073	Radial	2617.349	2582.778	2626.229	2643.040
INDIUM	230.606	Axial	4884.516	4879.947	4882.549	4891.052

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	340.9554	340.3173	341.8828	340.6662
ANTIMONY	206.833	Axial	197.0502	198.8462	195.9141	196.3903
ARSENIC	189.042	Axial	233.1085	233.1304	232.7919	233.4032
BARIUM	233.527	Axial	2735.602	2736.749	2733.235	2736.822
BERYLLIUM	313.042	Radial	2423.595	2427.989	2406.349	2436.448
BORON	249.678	Radial	54.59915	54.91730	53.79659	55.08357
CADMIUM	228.802	Axial	5296.738	5305.222	5301.485	5283.507
CALCIUM	317.933	Radial	9654.476	9658.952	9633.089	9671.387
CALCIUM	373.690	Radial	8986.034	8983.433	8966.922	9007.746
CHROMIUM	267.716	Axial	12356.95	12392.24	12345.92	12332.69
COBALT	228.616	Axial	5146.384	5153.073	5158.460	5127.618
COPPER	324.754	Axial	17684.62	17640.41	17692.59	17720.84
IRON	259.940	Radial	1406.304	1399.517	1415.889	1403.507
IRON	271.441	Radial	98.18184	96.77822	98.56691	99.20040
LEAD	220.353	Axial	273.1094	271.7965	274.4938	273.0380
LITHIUM	670.784	Radial	4806.019	4766.359	4818.280	4833.417
MAGNESIUM	279.079	Radial	190.2139	189.8518	191.1348	189.6552
MANGANESE	257.610	Axial	60783.22	60812.88	60814.31	60722.48
MOLYBDENUM	202.030	Axial	498.0461	500.2106	496.3255	497.6021
NICKEL	231.604	Axial	1665.443	1673.742	1667.572	1655.015
PHOSPHORUS	177.495	Axial	77.44130	77.77433	77.72296	76.82662
POTASSIUM	766.490	Radial	11664.71	11662.55	11636.64	11694.94
SELENIUM	196.090	Axial	170.7609	169.8158	171.1766	171.2905
SILICON	251.611	Axial	6270.633	6245.432	6262.547	6303.920
SILVER	328.068	Axial	8111.091	8098.029	8134.576	8100.668
SODIUM	589.592	Radial	34893.96	34912.55	34791.24	34978.09
SODIUM	818.326	Radial	1706.373	1693.973	1699.008	1726.137
STRONTIUM	421.552	Radial	23063.60	23007.66	23050.87	23132.27
SULFUR	182.034	Axial	323.4533	323.0241	323.1720	324.1637
THALLIUM	190.856	Axial	203.2028	203.2625	202.5017	203.8442
TIN	189.989	Axial	234.3826	233.6786	235.0763	234.3928
TITANIUM	334.941	Radial	745.0400	745.8097	748.2364	741.0739
VANADIUM	292.402	Radial	166.5607	164.2316	167.2013	168.2492
ZINC	206.200	Axial	4494.769	4513.469	4492.718	4478.119

Sample ID: STD5 Units: mg/l
Analyzed: 03/18/25 06:16 Sequence: 7 Standard ID: 25C18570

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12278.56	12289.16	12245.34	12301.19
YTTRIUM	360.073	Axial	184254.8	183791.3	184908.0	184065.2
YTTRIUM	360.073	Radial	2596.231	2586.236	2622.815	2579.643
INDIUM	230.606	Axial	4683.670	4663.545	4671.918	4715.548

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	653.8558	647.2985	658.7730	655.4959
ANTIMONY	206.833	Axial	381.5269	380.6616	379.0410	384.8780
ARSENIC	189.042	Axial	448.9698	450.3027	446.0411	450.5654
BARIUM	233.527	Axial	5045.804	5065.632	5031.557	5040.224
BERYLLIUM	313.042	Radial	4670.637	4686.190	4653.226	4672.494
BORON	249.678	Radial	104.0205	103.8547	105.3098	102.8971
CADMIUM	228.802	Axial	10110.26	10149.11	10071.76	10109.91
CALCIUM	373.690	Radial	16879.24	16864.23	16824.78	16948.72
CHROMIUM	267.716	Axial	23278.45	23305.31	23246.13	23283.93
COBALT	228.616	Axial	9662.793	9706.598	9645.530	9636.252
COPPER	324.754	Axial	34042.59	34052.51	33950.39	34124.87
IRON	271.441	Radial	189.1298	188.1864	188.3522	190.8508
LEAD	220.353	Axial	515.6240	516.5176	513.2283	517.1262
LITHIUM	670.784	Radial	9315.858	9318.927	9262.221	9366.425
MAGNESIUM	279.079	Radial	361.7184	363.5607	356.7093	364.8851
MANGANESE	257.610	Axial	115370.8	115630.8	114869.1	115612.3
MOLYBDENUM	202.030	Axial	945.8967	946.8878	941.8953	948.9069
NICKEL	231.604	Axial	3132.882	3152.820	3124.894	3120.931
PHOSPHORUS	177.495	Axial	149.3940	150.6574	148.7518	148.7728
POTASSIUM	766.490	Radial	22653.83	22661.56	22604.84	22695.10
SELENIUM	196.090	Axial	326.5586	326.6975	325.5391	327.4393
SILICON	251.611	Axial	12200.20	12123.59	12180.04	12296.96
SILVER	328.068	Axial	15170.03	15259.53	15191.10	15059.46
SODIUM	818.326	Radial	3199.923	3207.820	3181.077	3210.872
STRONTIUM	421.552	Radial	44346.63	44408.61	44069.46	44561.81
SULFUR	182.034	Axial	628.8483	631.3029	625.2046	630.0374
THALLIUM	190.856	Axial	384.4509	389.3297	380.8023	383.2206
TIN	189.989	Axial	441.8055	442.5090	439.0047	443.9029
TITANIUM	334.941	Radial	1438.501	1438.297	1457.599	1419.608
VANADIUM	292.402	Radial	320.2227	320.1955	321.3959	319.0768
ZINC	206.200	Axial	8412.768	8429.191	8412.443	8396.671

Sample ID: STD6 Units: mg/l
Analyzed: 03/18/25 06:19 Sequence: 8 Standard ID: 25C18571

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11896.41	11902.83	11892.47	11893.94
YTTRIUM	360.073	Axial	176534.0	176154.2	176872.4	176575.5
YTTRIUM	360.073	Radial	2556.032	2521.608	2559.054	2587.434
INDIUM	230.606	Axial	4405.065	4409.001	4418.186	4388.008

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	1273.401	1258.003	1271.475	1290.724
ANTIMONY	206.833	Axial	741.7809	740.7869	743.9391	740.6166
ARSENIC	189.042	Axial	850.9992	852.9952	852.9351	847.0673
BARIUM	233.527	Axial	9520.985	9554.391	9539.373	9469.190
BERYLLIUM	313.042	Radial	9090.279	8985.169	9091.460	9194.209
BORON	249.678	Radial	204.3572	203.9938	201.8885	207.1892
CADMIUM	228.802	Axial	19403.64	19434.95	19475.92	19300.06
CALCIUM	373.690	Radial	32648.58	32393.10	32671.33	32881.30
CERIUM	535.353	Radial	1290.374	1279.912	1292.532	1298.677
CHROMIUM	267.716	Axial	44020.64	44014.72	44069.24	43977.95
COBALT	228.616	Axial	18160.99	18203.07	18210.51	18069.40
COPPER	324.754	Axial	66059.62	65950.51	66194.55	66033.80
IRON	271.441	Radial	361.8337	357.4821	358.4482	369.5706
LANTHANUM	333.749	Radial	2560.492	2536.577	2563.576	2581.322
LEAD	220.353	Axial	977.0896	980.7873	981.2710	969.2104
LITHIUM	670.784	Radial	18242.66	18061.16	18235.09	18431.73
MAGNESIUM	279.079	Radial	707.9515	699.5501	710.5416	713.7627
MANGANESE	257.610	Axial	218141.6	217801.3	218421.7	218201.9
MOLYBDENUM	202.030	Axial	1805.699	1812.314	1810.169	1794.615
NICKEL	231.604	Axial	5896.112	5906.738	5918.498	5863.101
PHOSPHORUS	177.495	Axial	292.5447	293.6978	292.2657	291.6707
POTASSIUM	766.490	Radial	44779.53	44409.52	44826.05	45103.01
SELENIUM	196.090	Axial	628.0778	628.4479	630.6520	625.1335
SILICON	251.611	Axial	24017.15	23723.74	24077.04	24250.68
SILVER	328.068	Axial	29241.38	29181.09	29309.74	29233.30
SODIUM	818.326	Radial	6184.956	6130.520	6208.631	6215.718
STRONTIUM	421.552	Radial	86952.99	86033.54	87090.80	87734.65
SULFUR	182.034	Axial	1237.492	1236.906	1239.950	1235.621
THALLIUM	190.856	Axial	721.8177	727.5211	716.2970	721.6351
TIN	189.989	Axial	840.0640	845.0237	838.1301	837.0382
TITANIUM	334.941	Radial	2797.078	2783.564	2800.299	2807.372
VANADIUM	292.402	Radial	629.1704	622.9170	630.3996	634.1945
ZINC	206.200	Axial	15797.45	15822.58	15816.39	15753.38

Sample ID: STD7 Units: mg/l
Analyzed: 03/18/25 06:22 Sequence: 9 Standard ID: 25C09297

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11274.83	11280.88	11242.55	11301.07
YTTRIUM	360.073	Axial	166533.4	166715.1	166791.8	166093.3
YTTRIUM	360.073	Radial	2499.731	2509.968	2509.281	2479.943
INDIUM	230.606	Axial	3954.980	3968.277	3948.892	3947.773

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	15178.95	15201.59	15316.50	15018.76
CALCIUM	373.690	Radial	77882.79	77959.54	78482.97	77205.85
IRON	271.441	Radial	1705.425	1704.851	1707.445	1703.979
MAGNESIUM	279.079	Radial	8921.322	8910.076	8970.478	8883.411
SODIUM	818.326	Radial	15391.57	15407.96	15502.62	15264.12
SULFUR	182.034	Axial	5850.285	5876.957	5866.785	5807.112

Sample ID: ICV-3 Units: mg/l
Analyzed: 03/18/25 06:25 Sequence: 10 Standard ID: 25C18572

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	12908.49	12891.75	12886.26	12928.62	12927.34
YTTRIUM	360.073	Axial	195271.3	193855.9	195496.8	197414.3	194318.2
YTTRIUM	360.073	Radial	2650.950	2634.218	2658.484	2646.826	2664.271
INDIUM	230.606	Axial	5183.309	5185.391	5165.439	5195.400	5187.007

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	340.6702	10.40214	10.55471	10.35634	10.33084
ANTIMONY	206.833	Axial	388.9530	0.9657859	0.9827637	0.9670073	0.9574296
ARSENIC	189.042	Axial	230.1922	0.9905778	1.003505	0.9925539	0.9950489
BARIUM	233.527	Axial	5358.483	1.027319	1.038447	1.033661	1.023710
BERYLLIUM	313.042	Radial	11886.56	1.004089	1.002294	1.001088	1.005667
BORON	249.678	Radial	52.00348	0.9782618	0.9544758	0.9870277	0.9898118
CADMIUM	228.802	Axial	10294.30	0.9744235	0.9850842	0.9793272	0.9702072
CALCIUM	317.933	Radial	2059.503	9.977567	9.977474	9.957904	9.973613
CHROMIUM	267.716	Axial	12517.46	1.023149	1.029574	1.030901	1.011463
COBALT	228.616	Axial	5132.818	0.9599789	0.9703547	0.9663657	0.9561891
COPPER	324.754	Axial	17604.39	0.9643237	0.9665339	0.9731259	0.9505284
IRON	259.940	Radial	1405.065	9.864331	9.883544	9.821085	9.898309
LEAD	220.353	Axial	555.6756	0.9686690	0.9779117	0.9751102	0.9632755
LITHIUM	670.784	Radial	4773.056	1.004939	1.005115	1.003281	1.005855
MAGNESIUM	279.079	Radial	188.7302	10.08132	10.11749	10.14893	9.935513
MANGANESE	257.610	Axial	62066.22	1.023711	1.029624	1.031368	1.009117
MOLYBDENUM	202.030	Axial	2009.901	1.020210	1.032638	1.025267	1.018590
NICKEL	231.604	Axial	1686.707	0.9676880	0.9804274	0.9710751	0.9649877
PHOSPHORUS	177.495	Axial	74.98537	0.9503215	0.9464091	0.9552206	0.9646320
POTASSIUM	766.490	Radial	2307.863	10.12790	10.12716	10.12465	10.10296
SELENIUM	196.090	Axial	164.3753	0.9576137	0.9681863	0.9607397	0.9588870
SILICON	251.611	Axial	3530.396	1.061478	1.034897	1.063116	1.060777
SILVER	328.068	Axial	15817.35	0.9772059	0.9787138	0.9857555	0.9655052
SODIUM	589.592	Radial	7285.756	10.29543	10.32524	10.28829	10.27091
STRONTIUM	421.552	Radial	9266.852	0.4095300	0.4083056	0.4094930	0.4094331
SULFUR	182.034	Axial	635.0061	9.459664	9.561088	9.482894	9.451242
THALLIUM	190.856	Axial	217.3337	1.022088	1.026720	1.029460	1.022156
TIN	189.989	Axial	471.7774	1.027640	1.043405	1.033915	1.023134
TITANIUM	334.941	Radial	724.6347	0.9937798	0.9904053	0.9962496	0.9926327
VANADIUM	292.402	Radial	159.7231	0.9783029	0.9700372	0.9811079	0.9790537
ZINC	206.200	Axial	4425.443	1.006112	1.016427	1.013727	1.003041
CERIUM	535.353	Radial	20.00850	-0.08619443	0.006122631	-0.07118056	-0.1718177
HOT WATER SOL. BORON	249.678	Radial	52.00348	0.9782618	0.9544758	0.9870277	0.9898118
LANTHANUM	333.749	Radial	0.9703960	-0.0006878835	0.006356955	-0.008216321	0.0004526208

Sample ID: ICB-3 Units: mg/l
Analyzed: 03/18/25 06:44 Sequence: 11

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	13053.38	13077.76	13051.55	13030.83
YTTRIUM	360.073	Axial	200566.2	202798.5	199849.5	199050.4
YTTRIUM	360.073	Radial	2806.532	3006.740	2734.137	2678.720
INDIUM	230.606	Axial	5412.748	5434.022	5409.783	5394.439

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5.298054	-0.02420209	-0.07983180	0.01281695	-0.005591431
ANTIMONY	206.833	Axial	1.285262	0.0003037308	0.0008033053	0.0001269385	-0.00001905128
ARSENIC	189.042	Axial	-0.1036844	-0.001041950	0.003147462	-0.004077694	-0.002195617
BARIUM	233.527	Axial	-6.76159	0.0002106235	0.0002733281	0.0005403510	-0.0001818084
BERYLLIUM	313.042	Radial	1.249792	-0.00008897546	-0.00006253466	0.00006587296	-0.0002702647
BORON	249.678	Radial	0.1944120	0.001792931	0.004915248	0.002007603	-0.001544057
CADMIUM	228.802	Axial	-9.97790	0.0001462521	0.0001543668	0.0001178702	0.0001665192
CALCIUM	317.933	Radial	119.0542	-0.03603691	-0.06889422	-0.02172256	-0.01749395
CERIUM	535.353	Radial	27.46764	-0.04088170	-0.03932240	-0.05367602	-0.02964666
CHROMIUM	267.716	Axial	-9.32793	-0.00002986255	-0.0003551743	0.0001227840	0.0001428027
COBALT	228.616	Axial	-1.63239	0.0001440000	0.00002426300	0.0003195924	0.00008814455
COPPER	324.754	Axial	53.08944	0.0006612038	0.0006319646	0.001030881	0.0003207655
HOT WATER SOL. BORON	249.678	Radial	0.1944120	0.001792931	0.004915248	0.002007603	-0.001544057
IRON	259.940	Radial	0.04165972	-0.003842217	0.001553552	0.002944723	-0.01602493
LANTHANUM	333.749	Radial	-0.08331945	-0.004464573	-0.008789056	-0.008216094	0.003611432
LEAD	220.353	Axial	-1.56329	0.0005520315	-0.001253422	0.0001906163	0.002718900
LITHIUM	670.784	Radial	9.553963	-0.0004169820	-0.0003776907	0.001425748	-0.002299004
MAGNESIUM	279.079	Radial	-2.05521	0.002742835	0.06892370	-0.02246452	-0.03823067
MANGANESE	257.610	Axial	0.9311655	0.00002866625	-0.00001228724	0.00001880599	0.00007948001
MOLYBDENUM	202.030	Axial	0.6325743	0.0005100805	0.0006487670	0.0003040173	0.0005774574
NICKEL	231.604	Axial	11.12550	0.00004260098	-0.000001148761	0.0003552634	-0.0002263117
PHOSPHORUS	177.495	Axial	-0.5440506	-0.001654048	-0.002352721	-0.001347801	-0.001261624
POTASSIUM	766.490	Radial	-52.7134	-0.005391259	-0.0009005664	0.01238140	-0.02765462
SELENIUM	196.090	Axial	1.991346	0.005243157	0.01045065	-0.0005160275	0.005794848
SILICON	251.611	Axial	31.86101	-0.001280304	-0.002256840	-0.001315815	-0.0002682563
SILVER	328.068	Axial	-14.9790	-0.00007815256	-0.00009513712	0.0001179136	-0.0002572341
SODIUM	589.592	Radial	-16.6083	-0.01759958	-0.03146386	-0.02484104	0.003506160
STRONTIUM	421.552	Radial	6.068433	-0.00008235452	-0.00003458667	-0.0002511626	0.00003868572
SULFUR	182.034	Axial	2.029309	0.005514919	0.005225970	0.006890954	0.004427832
THALLIUM	190.856	Axial	-0.1188998	-0.0008799689	-0.001046546	-0.001218749	-0.0003746118
TIN	189.989	Axial	-0.3598888	-0.002063435	-0.003020056	-0.002480665	-0.0006895839
TITANIUM	334.941	Radial	1.944120	0.001358448	-0.0009979063	0.004645920	0.0004273320
VANADIUM	292.402	Radial	-0.4027107	0.00005631806	0.0001623671	0.003393791	-0.003387204
ZINC	206.200	Axial	102.6670	-0.0006014219	-0.0004570530	-0.0007600969	-0.0005871157

Sample ID: ICVLL-3 Units: mg/l
Analyzed: 03/18/25 06:52 Sequence: 14 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	13118.73	13118.32	13136.14	13101.71
YTTRIUM	360.073	Axial	200284.0	199668.5	200437.4	200746.0
YTTRIUM	360.073	Radial	2678.671	2693.708	2669.703	2672.601
INDIUM	230.606	Axial	5463.409	5435.389	5487.297	5467.540

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	13.61137	0.2368419	0.2597502	0.2739904	0.1767850
ANTIMONY	206.833	Axial	5.190173	0.009857385	0.01018307	0.009569809	0.009819274
ARSENIC	189.042	Axial	2.035407	0.008028562	0.007496362	0.006028337	0.01056099
BARIUM	233.527	Axial	21.35534	0.005513460	0.005667585	0.005633091	0.005239704
BERYLLIUM	313.042	Radial	23.30167	0.001762006	0.001642276	0.001770563	0.001873179
BORON	249.678	Radial	10.22978	0.1892192	0.1874591	0.2000707	0.1801277
CADMIUM	228.802	Axial	10.00850	0.002010356	0.001966028	0.002010923	0.002054115
CALCIUM	317.933	Radial	314.2810	0.9842323	0.9593432	1.002442	0.9909111
CHROMIUM	267.716	Axial	121.2108	0.01036240	0.01019550	0.01062852	0.01026317
COBALT	228.616	Axial	52.16542	0.009687404	0.009444088	0.009780836	0.009837287
COPPER	324.754	Axial	243.9036	0.01087883	0.01099693	0.01059044	0.01104912
IRON	259.940	Radial	15.41410	0.1032874	0.09777979	0.1033422	0.1087401
LEAD	220.353	Axial	1.658530	0.005872914	0.002660959	0.008579394	0.006378388
LITHIUM	670.784	Radial	71.96023	0.01271051	0.01664838	0.01307383	0.008409328
MAGNESIUM	279.079	Radial	17.98311	1.048439	0.9830564	1.098046	1.064216
MANGANESE	257.610	Axial	660.3308	0.01063158	0.01063092	0.01060281	0.01066100
MOLYBDENUM	202.030	Axial	10.11206	0.005242261	0.005382473	0.005109934	0.005234376
NICKEL	231.604	Axial	28.17782	0.009324876	0.008860914	0.009403733	0.009709982
PHOSPHORUS	177.495	Axial	7.111386	0.09333006	0.09445788	0.09241580	0.09311649
POTASSIUM	766.490	Radial	195.5507	1.040572	1.076727	1.042216	1.002773
SELENIUM	196.090	Axial	3.013537	0.01108857	0.008399037	0.01054402	0.01432264
SILICON	251.611	Axial	631.6218	0.1763172	0.1752292	0.1772740	0.1764482
SILVER	328.068	Axial	80.40858	0.005661439	0.005748975	0.005594188	0.005641154
SODIUM	589.592	Radial	720.0467	1.010580	0.9976830	1.023681	1.010376
STRONTIUM	421.552	Radial	243.7788	0.01033556	0.01030738	0.01025121	0.01044809
SULFUR	182.034	Axial	64.91107	0.9294764	0.9269436	0.9301024	0.9313832
THALLIUM	190.856	Axial	1.912463	0.008182156	0.006313399	0.01221243	0.006020637
TIN	189.989	Axial	24.50142	0.05128985	0.05308289	0.05157339	0.04921327
TITANIUM	334.941	Radial	36.90126	0.04891601	0.04808246	0.05159324	0.04707233
VANADIUM	292.402	Radial	2.937010	0.02015462	0.02307307	0.009357364	0.02803343
ZINC	206.200	Axial	328.2900	0.05096883	0.05151346	0.05083720	0.05055584
CERIUM	535.353	Radial	30.67544	-0.007226872	0.03254719	0.04765203	-0.1018798
HOT WATER SOL. BORON	249.678	Radial	10.22978	0.1892192	0.1874591	0.2000707	0.1801277
LANTHANUM	333.749	Radial	1.277565	0.0004079354	-0.001581199	0.003118904	-0.0003138993

Sample ID: ICSA-3 Units: mg/l
Analyzed: 03/18/25 06:55 Sequence: 15 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11477.54	11469.19	11458.81	11504.62
YTTRIUM	360.073	Axial	171183.3	170795.1	171133.5	171621.2
YTTRIUM	360.073	Radial	2536.415	2508.906	2544.923	2555.417
INDIUM	230.606	Axial	4180.879	4209.542	4155.143	4177.953

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	15224.66	494.1831	498.8226	494.8419	488.8848
ANTIMONY	206.833	Axial	0.9907074	-0.00007910459	0.003650055	0.002360741	-0.006248111
ARSENIC	189.042	Axial	-1.05837	-0.005727671	-0.004805465	-0.01043357	-0.001943978
BARIUM	233.527	Axial	-2.99967	0.0008446654	0.0004084684	0.0008660973	0.001259430
BERYLLIUM	313.042	Radial	-0.6110073	-0.0002410906	-0.0003501406	-0.00009893491	-0.0002741964
BORON	249.678	Radial	-7.65314	-0.1522080	-0.1512381	-0.1216517	-0.1837342
CADMIUM	228.802	Axial	-5.55692	0.0004881710	0.0001668920	0.0006576093	0.0006400115
CALCIUM	373.690	Radial	78296.45	492.6834	497.5135	492.1480	488.3888
CERIUM	535.353	Radial	-27.0050	-0.4555751	-0.4947581	-0.4515828	-0.4203843
CHROMIUM	267.716	Axial	3.688298	0.001053945	0.001479600	0.0005587155	0.001123520
COBALT	228.616	Axial	5.617231	0.001738617	0.001454545	0.001702971	0.002058333
COPPER	324.754	Axial	85.49419	0.003177985	0.003318873	0.003051815	0.003163268
HOT WATER SOL. BORON	249.678	Radial	-7.65314	-0.1522080	-0.1512381	-0.1216517	-0.1837342
IRON	271.441	Radial	1691.126	195.0594	197.1140	194.2589	193.8054
LANTHANUM	333.749	Radial	-4.65950	-0.02274236	-0.03075624	-0.01283668	-0.02463414
LEAD	220.353	Axial	-1.34781	0.0002545507	-0.001115096	0.003577946	-0.001699198
LITHIUM	670.784	Radial	90.93582	0.01774924	0.01866463	0.01401714	0.02056594
MAGNESIUM	279.079	Radial	8905.138	491.9888	496.8555	490.2667	488.8441
MANGANESE	257.610	Axial	44.52485	0.0008510138	0.0007974276	0.0008308831	0.0009247307
MOLYBDENUM	202.030	Axial	0.4811624	0.0004664925	0.0009917900	-0.0005501134	0.0009578010
NICKEL	231.604	Axial	16.70760	0.005844987	0.007768832	0.005466049	0.004300081
PHOSPHORUS	177.495	Axial	-0.5309963	-0.002399448	-0.02085538	0.01286480	0.0007922425
POTASSIUM	766.490	Radial	-64.2954	-0.08004133	-0.1008691	-0.07858272	-0.06067220
SELENIUM	196.090	Axial	0.8131215	-0.0009458450	-0.004895739	-0.003234422	0.005292626
SILICON	251.611	Axial	-12.2575	-0.01495384	-0.01574406	-0.01358027	-0.01553718
SILVER	328.068	Axial	-33.9425	-0.001567729	-0.001101835	-0.002313006	-0.001288347
SODIUM	589.592	Radial	33.87249	0.05401555	0.06310604	0.04033511	0.05860550
STRONTIUM	421.552	Radial	150.5233	0.006623057	0.006660913	0.006437164	0.006771093
SULFUR	182.034	Axial	3.593002	0.03590742	0.004411684	0.06858907	0.03472151
THALLIUM	190.856	Axial	0.7592635	0.004118128	-0.006353498	0.008800941	0.009906940
TIN	189.989	Axial	-0.8478278	-0.003372062	-0.005210928	-0.004851286	-0.00005397083
TITANIUM	334.941	Radial	31.76421	0.04435137	0.04421488	0.04383882	0.04500042
VANADIUM	292.402	Radial	3.486132	0.02461563	0.01530351	0.02725598	0.03128739
ZINC	206.200	Axial	375.3367	0.07404286	0.07532459	0.07359966	0.07320433

Sample ID: ICSAB-3 Units: mg/l
Analyzed: 03/18/25 06:58 Sequence: 16 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11398.90	11404.06	11403.07	11389.58
YTTRIUM	360.073	Axial	169655.0	170301.0	168810.4	169853.6
YTTRIUM	360.073	Radial	2522.969	2513.965	2529.055	2525.888
INDIUM	230.606	Axial	4145.176	4123.987	4161.480	4150.059

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	15410.03	502.8419	504.3047	502.1297	502.0914
ANTIMONY	206.833	Axial	173.8178	0.4873340	0.4887914	0.4869974	0.4862131
ARSENIC	189.042	Axial	100.2557	0.4882520	0.4919693	0.4901419	0.4826447
BARIUM	233.527	Axial	2343.639	0.5095689	0.5091945	0.5101449	0.5093673
BERYLLIUM	313.042	Radial	5494.744	0.4876084	0.4882932	0.4854595	0.4890726
BORON	249.678	Radial	43.05473	0.8509268	0.8970648	0.8265885	0.8291270
CADMIUM	228.802	Axial	9363.901	1.003691	1.010196	1.003323	0.9975523
CALCIUM	373.690	Radial	78815.20	498.5639	499.5158	497.9858	498.1901
CERIUM	535.353	Radial	-27.9159	-0.4636518	-0.3674125	-0.4892603	-0.5342826
CHROMIUM	267.716	Axial	5179.649	0.4876569	0.4862541	0.4895138	0.4872028
COBALT	228.616	Axial	2044.411	0.4783524	0.4853702	0.4764684	0.4732185
COPPER	324.754	Axial	8307.364	0.5227475	0.5245828	0.5232735	0.5203862
HOT WATER SOL. BORON	249.678	Radial	43.05473	0.8509268	0.8970648	0.8265885	0.8291270
IRON	271.441	Radial	1667.170	193.3100	194.3063	192.3051	193.3187
LANTHANUM	333.749	Radial	-3.65327	-0.01881300	-0.01274334	-0.01719039	-0.02650526
LEAD	220.353	Axial	433.3124	0.9445920	0.9403869	0.9512408	0.9421483
LITHIUM	670.784	Radial	90.85984	0.01784216	0.01919241	0.01495845	0.01937563
MAGNESIUM	279.079	Radial	8892.130	493.8627	495.2765	493.6823	492.6293
MANGANESE	257.610	Axial	25600.36	0.4859938	0.4844715	0.4885579	0.4849519
MOLYBDENUM	202.030	Axial	834.6928	0.4798879	0.4802337	0.4828725	0.4765576
NICKEL	231.604	Axial	1326.866	0.9517932	0.9562401	0.9530647	0.9460746
PHOSPHORUS	177.495	Axial	-1.37511	-0.01450273	-0.01544866	-0.01158464	-0.01647489
POTASSIUM	766.490	Radial	-50.6602	-0.01990782	-0.02872890	0.01487068	-0.04586523
SELENIUM	196.090	Axial	71.58263	0.4690568	0.4681696	0.4619193	0.4770815
SILICON	251.611	Axial	2604.462	0.8997236	0.8966457	0.9032325	0.8992925
SILVER	328.068	Axial	11866.36	0.8438925	0.8415260	0.8456134	0.8445382
SODIUM	589.592	Radial	62.78555	0.09712089	0.07437820	0.09999536	0.1169891
STRONTIUM	421.552	Radial	146.7876	0.006486235	0.006352366	0.006740340	0.006365999
SULFUR	182.034	Axial	4.185416	0.04633822	0.04440275	0.03354403	0.06106788
THALLIUM	190.856	Axial	79.23789	0.4657968	0.4710669	0.4581872	0.4681364
TIN	189.989	Axial	187.6363	0.4621277	0.4610209	0.4612731	0.4640890
TITANIUM	334.941	Radial	366.3509	0.5273376	0.5292590	0.5278603	0.5248935
VANADIUM	292.402	Radial	73.44126	0.4739305	0.4890117	0.4557774	0.4770024
ZINC	206.200	Axial	3821.270	0.9832541	0.9875441	0.9840634	0.9781547

Sample ID: CCVLL-3 Units: mg/l
Analyzed: 03/18/25 14:33 Sequence: 163 Standard ID: 25C17418

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12631.24	12638.22	12633.29	12622.21
YTTRIUM	360.073	Axial	195803.8	196418.3	195478.5	195514.7
YTTRIUM	360.073	Radial	2746.055	2745.126	2720.584	2772.455
INDIUM	230.606	Axial	5460.650	5441.358	5426.294	5514.298

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	13.52206	0.2239170	0.1708768	0.2480059	0.2528683
ANTIMONY	206.833	Axial	4.351240	0.008212901	0.008872796	0.007633889	0.008132018
ARSENIC	189.042	Axial	2.072252	0.008522802	0.007029812	0.006359385	0.01217921
BARIUM	233.527	Axial	19.75330	0.005355395	0.005353690	0.005573405	0.005139091
BERYLLIUM	313.042	Radial	26.13453	0.001945276	0.001798365	0.002076928	0.001960536
BORON	249.678	Radial	11.15555	0.2014119	0.2278844	0.1942605	0.1820908
CADMIUM	228.802	Axial	11.31596	0.002172564	0.002332697	0.002094607	0.002090388
CALCIUM	317.933	Radial	314.0495	0.9438650	0.9377064	0.9646644	0.9292243
CHROMIUM	267.716	Axial	115.5964	0.01012543	0.01055437	0.01012213	0.009699785
COBALT	228.616	Axial	50.03422	0.009315510	0.009263120	0.009548033	0.009135376
COPPER	324.754	Axial	244.4083	0.01120464	0.01149254	0.01090566	0.01121573
IRON	259.940	Radial	15.26135	0.09960625	0.09841890	0.09991178	0.1004881
LEAD	220.353	Axial	1.723731	0.005999643	0.006281318	0.007301950	0.004415660
LITHIUM	670.784	Radial	92.09576	0.01646071	0.01603014	0.01776320	0.01558879
MAGNESIUM	279.079	Radial	18.48303	1.050589	0.9942999	1.066654	1.090815
MANGANESE	257.610	Axial	660.7184	0.01088100	0.01083209	0.01097458	0.01083633
MOLYBDENUM	202.030	Axial	10.83721	0.005813200	0.005948204	0.005512859	0.005978537
NICKEL	231.604	Axial	27.68760	0.009061256	0.008722232	0.008639021	0.009822515
PHOSPHORUS	177.495	Axial	6.955961	0.09473361	0.09661820	0.08540833	0.1021743
POTASSIUM	766.490	Radial	193.1623	1.010136	0.9655461	1.000287	1.064576
SELENIUM	196.090	Axial	2.844226	0.01074362	0.008126062	0.01376053	0.01034426
SILICON	251.611	Axial	649.4206	0.1859881	0.1863818	0.1840902	0.1874923
SILVER	328.068	Axial	67.90299	0.005002745	0.004665324	0.005223654	0.005119259
SODIUM	589.592	Radial	798.3392	1.092674	1.095623	1.102374	1.080023
STRONTIUM	421.552	Radial	252.3607	0.01044073	0.01033402	0.01059724	0.01039094
SULFUR	182.034	Axial	68.06763	1.014473	1.013191	1.009981	1.020247
THALLIUM	190.856	Axial	2.048739	0.008809941	0.01099306	0.008194362	0.007242402
TIN	189.989	Axial	24.86321	0.05412727	0.05186635	0.05459751	0.05591794
TITANIUM	334.941	Radial	35.72553	0.04611658	0.04789532	0.04402792	0.04642649
VANADIUM	292.402	Radial	2.499583	0.01716911	0.01580328	0.02088469	0.01481937
ZINC	206.200	Axial	335.9116	0.05568511	0.05559539	0.05527523	0.05618471
CERIUM	535.353	Radial	27.41210	-0.03709748	-0.003018065	-0.07945976	-0.02881462
HOT WATER SOL. BORON	249.678	Radial	11.15555	0.2014119	0.2278844	0.1942605	0.1820908
LANTHANUM	333.749	Radial	0.2962469	-0.003253378	0.009985962	-0.005380746	-0.01436535

Sample ID: CCV-2 Units: mg/l
Analyzed: 03/18/25 18:09 Sequence: 228 Standard ID: 25C17425

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12253.75	12230.96	12241.35	12288.95
YTTRIUM	360.073	Axial	190467.5	190145.9	191043.6	190212.9
YTTRIUM	360.073	Radial	2544.518	2553.580	2533.927	2546.047
INDIUM	230.606	Axial	4939.820	4916.173	4946.736	4956.551

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	292.7149	9.292396	9.249513	9.255507	9.372169
ANTIMONY	206.833	Axial	180.3933	0.4703848	0.4693141	0.4695871	0.4722532
ARSENIC	189.042	Axial	206.5392	0.9362553	0.9469646	0.9350794	0.9267220
BARIUM	233.527	Axial	2356.765	0.4767743	0.4762368	0.4797224	0.4743637
BERYLLIUM	313.042	Radial	2288.244	0.2012305	0.2009904	0.2009137	0.2017873
BORON	249.678	Radial	49.19127	0.9640623	0.9631004	0.9483015	0.9807851
CADMIUM	228.802	Axial	4932.339	0.4923555	0.4923749	0.4941947	0.4904970
CALCIUM	317.933	Radial	9026.046	47.75243	47.73956	47.69748	47.82024
CHROMIUM	267.716	Axial	11466.19	0.9608682	0.9629356	0.9597264	0.9599427
COBALT	228.616	Axial	4776.977	0.9374877	0.9453798	0.9373850	0.9296985
COPPER	324.754	Axial	15205.27	0.8536243	0.8560732	0.8548514	0.8499483
IRON	259.940	Radial	1311.095	9.589462	9.574183	9.601020	9.593182
LEAD	220.353	Axial	268.0495	0.4918638	0.4954464	0.4928204	0.4873247
LITHIUM	670.784	Radial	4358.501	0.9559200	0.9580928	0.9527713	0.9568958
MAGNESIUM	279.079	Radial	181.9189	10.12346	10.12023	10.03462	10.21552
MANGANESE	257.610	Axial	55225.57	0.9338147	0.9362058	0.9317405	0.9334979
MOLYBDENUM	202.030	Axial	474.4222	0.2538243	0.2546170	0.2549248	0.2519311
NICKEL	231.604	Axial	1682.392	1.013110	1.029522	1.010523	0.9992865
PHOSPHORUS	177.495	Axial	75.59319	1.008883	1.003280	1.006580	1.016789
POTASSIUM	766.490	Radial	10608.14	47.70873	47.75609	47.53660	47.83350
SELENIUM	196.090	Axial	154.4199	0.9476121	0.9452441	0.9531683	0.9444239
SILICON	251.611	Axial	6036.286	1.868776	1.861937	1.872689	1.871704
SILVER	328.068	Axial	7678.410	0.4867387	0.4883916	0.4859839	0.4858407
SODIUM	589.592	Radial	31476.13	46.32486	46.36067	46.27095	46.34297
STRONTIUM	421.552	Radial	21288.45	0.9806245	0.9825251	0.9797776	0.9795708
SULFUR	182.034	Axial	315.0275	4.932012	4.914666	4.974289	4.907081
THALLIUM	190.856	Axial	198.8348	0.9811436	0.9754636	0.9792182	0.9887489
TIN	189.989	Axial	214.4877	0.4914901	0.4918899	0.4927339	0.4898465
TITANIUM	334.941	Radial	681.7103	0.9739976	0.9788596	0.9735247	0.9696086
VANADIUM	292.402	Radial	150.2423	0.9587960	0.9587623	0.9608957	0.9567300
ZINC	206.200	Axial	4223.027	1.011519	1.019123	1.011800	1.003633
CERIUM	535.353	Radial	31.46216	0.01136338	0.002737064	-0.0006001022	0.03195318
HOT WATER SOL. BORON	249.678	Radial	49.19127	0.9640623	0.9631004	0.9483015	0.9807851
LANTHANUM	333.749	Radial	1.625081	0.002013210	-0.0002462133	-0.001628001	0.007913843

Sample ID: CCB-2 Units: mg/l
Analyzed: 03/18/25 18:12 Sequence: 229

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12123.94	12125.14	12112.57	12134.12
YTTRIUM	360.073	Axial	193982.1	194112.1	194605.4	193228.8
YTTRIUM	360.073	Radial	2472.393	2483.753	2458.729	2474.699
INDIUM	230.606	Axial	5237.204	5232.890	5226.368	5252.356

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5.194757	-0.008550402	-0.03580181	-0.02167624	0.03182684
ANTIMONY	206.833	Axial	1.469944	0.001036382	0.003785465	-0.0004324944	-0.0002438252
ARSENIC	189.042	Axial	-0.4968419	-0.002874699	-0.001618343	-0.003242854	-0.003762900
BARIUM	233.527	Axial	-6.96752	0.00007081802	0.0002372683	0.00008401565	-0.0001088298
BERYLLIUM	313.042	Radial	1.110926	-0.00008680577	0.0002415997	-0.0002625648	-0.0002394522
BORON	249.678	Radial	-0.2314429	-0.006265681	-0.02109255	-0.03596104	0.03825654
CADMIUM	228.802	Axial	-8.25457	0.0002482424	0.0003100020	0.0002745204	0.0001602049
CALCIUM	317.933	Radial	114.9160	0.01815297	0.01253475	0.02709113	0.01483302
CERIUM	535.353	Radial	24.62090	-0.03707365	-0.1407500	0.07022126	-0.04069221
CHROMIUM	267.716	Axial	-8.43839	0.00001637890	0.00009899904	-0.00008045572	0.00003059339
COBALT	228.616	Axial	-4.66308	-0.0004267851	-0.0004724105	-0.0004733925	-0.0003345522
COPPER	324.754	Axial	27.18811	-0.0006728451	-0.0008453591	-0.0008697618	-0.0003034143
HOT WATER SOL. BORON	249.678	Radial	-0.2314429	-0.006265681	-0.02109255	-0.03596104	0.03825654
IRON	259.940	Radial	1.471977	0.007216669	0.01456095	0.009385636	-0.002296575
LANTHANUM	333.749	Radial	1.481235	0.001587502	0.01540419	-0.006504573	-0.004137108
LEAD	220.353	Axial	-0.6626936	0.002010999	0.002531283	0.002926695	0.0005750202
LITHIUM	670.784	Radial	17.69150	0.001702856	-0.0004498414	0.003986113	0.001572295
MAGNESIUM	279.079	Radial	-1.94412	-0.002230655	-0.005043865	0.08163422	-0.08328232
MANGANESE	257.610	Axial	7.758226	0.0001421638	0.0002181834	0.0001304165	0.00007789153
MOLYBDENUM	202.030	Axial	-0.5846123	-0.0001230959	-0.0001249225	0.00006656447	-0.0003109296
NICKEL	231.604	Axial	10.81850	0.00007400050	0.0004223168	0.00008947280	-0.0002897881
PHOSPHORUS	177.495	Axial	-0.2771660	0.001405140	0.005514642	-0.003732624	0.002433402
POTASSIUM	766.490	Radial	-32.1613	0.06079565	0.02276499	0.08824462	0.07137735
SELENIUM	196.090	Axial	1.579257	0.003561035	0.002436474	0.007924750	0.0003218827
SILICON	251.611	Axial	48.35638	0.004078449	0.003642790	0.003472038	0.005120519
SILVER	328.068	Axial	-15.1339	-0.0001180067	-0.0005993538	0.0001210517	0.0001242820
SODIUM	589.592	Radial	48.26973	0.07709601	0.06301094	0.07693558	0.09134150
STRONTIUM	421.552	Radial	7.443204	0.00001834862	-0.0002485979	0.00009597199	0.0002076718
SULFUR	182.034	Axial	1.109620	-0.006812613	0.008815766	-0.01479520	-0.01445840
THALLIUM	190.856	Axial	-0.3380434	-0.001921178	0.0004744644	-0.005045079	-0.001192919
TIN	189.989	Axial	1.261988	0.001640523	-0.0007151583	0.0004910500	0.005145676
TITANIUM	334.941	Radial	1.018349	0.0002741703	-0.001640307	0.002960745	-0.0004979273
VANADIUM	292.402	Radial	-1.60389	-0.008049964	-0.02082188	0.008444345	-0.01177235
ZINC	206.200	Axial	96.55116	-0.0003053265	-0.00002187345	-0.0005098121	-0.0003842939

Sample ID: ICSA-3 Units: mg/l
Analyzed: 03/18/25 18:23 Sequence: 230 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11219.52	11208.24	11242.02	11208.29
YTTRIUM	360.073	Axial	173061.1	172866.7	173728.7	172587.9
YTTRIUM	360.073	Radial	2531.577	2534.845	2518.555	2541.330
INDIUM	230.606	Axial	4171.486	4173.381	4170.135	4170.942

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	14037.69	456.4870	452.3274	458.4426	458.6911
ANTIMONY	206.833	Axial	1.285944	0.0008205867	-0.005691878	0.003773929	0.004379709
ARSENIC	189.042	Axial	-0.6614357	-0.003877736	-0.006288967	0.00004459153	-0.005388833
BARIUM	233.527	Axial	-1.93489	0.001064813	0.0007170852	0.001007611	0.001469744
BERYLLIUM	313.042	Radial	-1.21816	-0.0002947274	-0.00002505212	-0.0004674354	-0.0003916947
BORON	249.678	Radial	-6.40804	-0.1278973	-0.1205912	-0.1031561	-0.1599447
CADMIUM	228.802	Axial	-5.56165	0.0004743672	0.0005192687	0.0002802675	0.0006235654
CALCIUM	373.690	Radial	74470.99	469.4788	466.3496	470.7082	471.3784
CERIUM	535.353	Radial	-22.3268	-0.4182434	-0.4176798	-0.4080085	-0.4290420
CHROMIUM	267.716	Axial	4.716811	0.001143916	0.0009324285	0.001593280	0.0009060402
COBALT	228.616	Axial	3.836159	0.001327014	0.002073600	0.0009800168	0.0009274240
COPPER	324.754	Axial	47.51595	0.0007683355	0.0008284637	0.0002613992	0.001215144
HOT WATER SOL. BORON	249.678	Radial	-6.40804	-0.1278973	-0.1205912	-0.1031561	-0.1599447
IRON	271.441	Radial	1643.904	189.9599	188.7066	190.6182	190.5549
LANTHANUM	333.749	Radial	-3.03780	-0.01633838	-0.01538864	-0.01446425	-0.01916227
LEAD	220.353	Axial	1.206712	0.005754861	-0.0001743292	0.005239242	0.01219967
LITHIUM	670.784	Radial	91.02339	0.01780564	0.01624242	0.01797400	0.01920052
MAGNESIUM	279.079	Radial	8912.955	493.3348	490.3409	494.4361	495.2274
MANGANESE	257.610	Axial	39.07771	0.0007408593	0.0007836491	0.0006403335	0.0007985954
MOLYBDENUM	202.030	Axial	-0.08559402	0.0001427013	0.0008474218	0.0001409074	-0.0005602252
NICKEL	231.604	Axial	13.63057	0.003670314	0.003009909	0.005236794	0.002764239
PHOSPHORUS	177.495	Axial	-0.3328727	0.0003167557	0.003590310	-0.01697563	0.01433559
POTASSIUM	766.490	Radial	-64.2944	-0.08037184	-0.09622135	-0.04537007	-0.09952411
SELENIUM	196.090	Axial	-1.72266	-0.01791476	-0.007608729	-0.02706450	-0.01907104
SILICON	251.611	Axial	-18.7349	-0.01712778	-0.01778338	-0.01683527	-0.01676471
SILVER	328.068	Axial	-36.3439	-0.001708738	-0.001048469	-0.002031471	-0.002046273
SODIUM	589.592	Radial	25.70343	0.04200149	0.02233315	0.05103657	0.05263476
STRONTIUM	421.552	Radial	149.9313	0.006609028	0.006708172	0.006603966	0.006514947
SULFUR	182.034	Axial	2.508907	0.01865104	0.009756998	0.02315377	0.02304235
THALLIUM	190.856	Axial	0.9390485	0.005143327	0.008604871	0.002982777	0.003842333
TIN	189.989	Axial	-0.5965846	-0.002785695	-0.002247454	-0.002687572	-0.003422058
TITANIUM	334.941	Radial	30.24016	0.04225847	0.04274234	0.04539900	0.03863406
VANADIUM	292.402	Radial	4.709420	0.03252287	0.04052404	0.02511580	0.03192877
ZINC	206.200	Axial	373.0293	0.07568476	0.07606042	0.07518654	0.07580733

Sample ID: ICSAB-3 Units: mg/l
Analyzed: 03/18/25 18:25 Sequence: 231 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11125.82	11111.14	11115.41	11150.91
YTTRIUM	360.073	Axial	172407.1	172230.4	172452.6	172538.4
YTTRIUM	360.073	Radial	2478.380	2460.397	2494.927	2479.816
INDIUM	230.606	Axial	4148.273	4151.662	4124.140	4169.016

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	13974.65	464.2003	465.4166	461.6736	465.5106
ANTIMONY	206.833	Axial	167.9574	0.4824360	0.4863094	0.4804904	0.4805081
ARSENIC	189.042	Axial	95.63988	0.4771948	0.4746578	0.4810739	0.4758527
BARIUM	233.527	Axial	2154.089	0.4799383	0.4807832	0.4786713	0.4803604
BERYLLIUM	313.042	Radial	5482.192	0.4952581	0.4970527	0.4926784	0.4960432
BORON	249.678	Radial	40.85827	0.8217681	0.7831279	0.8430608	0.8391156
CADMIUM	228.802	Axial	9058.400	0.9947940	0.9970443	0.9971316	0.9902060
CALCIUM	373.690	Radial	74363.32	478.8722	480.5135	476.1183	479.9846
CERIUM	535.353	Radial	-18.8601	-0.3934709	-0.3268276	-0.4422601	-0.4113250
CHROMIUM	267.716	Axial	5055.248	0.4683706	0.4687414	0.4672986	0.4690720
COBALT	228.616	Axial	2007.956	0.4694728	0.4699116	0.4718376	0.4666693
COPPER	324.754	Axial	7566.766	0.4683201	0.4703469	0.4679428	0.4666706
HOT WATER SOL. BORON	249.678	Radial	40.85827	0.8217681	0.7831279	0.8430608	0.8391156
IRON	271.441	Radial	1634.021	192.8771	193.6928	191.7730	193.1653
LANTHANUM	333.749	Radial	-1.37814	-0.009916585	-0.007962599	-0.006362308	-0.01542485
LEAD	220.353	Axial	447.7842	0.9753132	0.9712074	0.9740501	0.9806820
LITHIUM	670.784	Radial	92.39543	0.01854661	0.02006628	0.02113851	0.01443505
MAGNESIUM	279.079	Radial	8992.356	508.4243	511.0960	504.3513	509.8257
MANGANESE	257.610	Axial	24493.90	0.4575612	0.4581538	0.4575294	0.4570005
MOLYBDENUM	202.030	Axial	835.7266	0.4922739	0.4949874	0.4909195	0.4909150
NICKEL	231.604	Axial	1407.029	1.008920	1.008735	1.015263	1.002763
PHOSPHORUS	177.495	Axial	-0.5172505	-0.002427943	-0.0001482211	0.004199368	-0.01133498
POTASSIUM	766.490	Radial	-58.5044	-0.05978984	-0.01277902	-0.1305022	-0.03608834
SELENIUM	196.090	Axial	69.10007	0.4638320	0.4700893	0.4579993	0.4634075
SILICON	251.611	Axial	2704.954	0.9197477	0.9186688	0.9208526	0.9197217
SILVER	328.068	Axial	12416.16	0.8688705	0.8734915	0.8721175	0.8610025
SODIUM	589.592	Radial	56.98591	0.09005307	0.07739781	0.08300496	0.1097564
STRONTIUM	421.552	Radial	147.1733	0.006627422	0.006712840	0.006791334	0.006378092
SULFUR	182.034	Axial	3.253094	0.03193098	0.03976454	0.03891325	0.01711514
THALLIUM	190.856	Axial	82.73881	0.4860017	0.4861839	0.4836752	0.4881461
TIN	189.989	Axial	181.7550	0.4586178	0.4594320	0.4560314	0.4603900
TITANIUM	334.941	Radial	353.0565	0.5173087	0.5159259	0.5202753	0.5157248
VANADIUM	292.402	Radial	72.00591	0.4729318	0.4562315	0.4855858	0.4769781
ZINC	206.200	Axial	3797.022	1.001438	1.006019	0.9985220	0.9997713

Sample ID: BLANK DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 19:45 Sequence: 234

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12991.00	12964.31	13035.53	12973.14
YTTRIUM	360.073	Axial	203573.6	203597.6	203138.0	203985.2
YTTRIUM	360.073	Radial	2674.523	2709.187	2669.944	2644.439
INDIUM	230.606	Axial	5457.944	5451.158	5467.747	5454.925

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.4266163	0.001233709	0.002670446	-0.001993231	0.003023912
BARIUM	233.527	Axial	-6.91411	0.0001755316	-0.0002374443	0.0002315189	0.0005325203
BORON	249.678	Radial	0.2407006	0.002844439	0.01432957	0.007288783	-0.01308504
CADMIUM	228.802	Axial	-13.9486	-0.0002309861	-0.00008882416	-0.0003974467	-0.0002066874
CHROMIUM	267.716	Axial	-3.25935	0.0004537502	0.0001167187	-0.00009621539	0.001340747
COBALT	228.616	Axial	-0.4457920	0.0003566679	0.0003942326	0.0007365259	-0.00006075488
LEAD	220.353	Axial	-0.4933500	0.002333125	0.001444892	0.003657674	0.001896808
LITHIUM	670.784	Radial	11.12315	0.00003610121	-0.001946405	-0.0003437236	0.002398432
SELENIUM	196.090	Axial	1.250097	0.0009758922	-0.002324302	0.004750856	0.0005011232
SILVER	328.068	Axial	-16.9970	-0.0001844443	-0.0004874673	-0.0002370108	0.0001711454
ALUMINUM	308.215	Radial	6.679793	0.02379867	0.08148664	-0.02931455	0.01922391
ANTIMONY	206.833	Axial	1.265923	0.0002733435	-0.0008516891	-0.0009879608	0.002659680
BERYLLIUM	313.042	Radial	1.971894	-0.00002226123	0.0001026398	-0.0001097816	-0.00005964187
CALCIUM	317.933	Radial	120.4521	-0.001500658	-0.007167144	-0.001485905	0.004151074
COPPER	324.754	Axial	32.68690	-0.0004546847	-0.0003789793	-0.0004062075	-0.0005788672
IRON	259.940	Radial	0.2221852	-0.002315753	-0.001859621	-0.003863699	-0.001223939
MAGNESIUM	279.079	Radial	-2.13853	-0.003859587	-0.02581788	-0.07805667	0.09229579
MANGANESE	257.610	Axial	11.39580	0.0001937047	0.0001951448	0.0001749402	0.0002110291
MOLYBDENUM	202.030	Axial	0.4738269	0.0004313385	-0.0003291247	0.0004940014	0.001129139
NICKEL	231.604	Axial	10.62722	-0.0002812796	-0.00003270114	-0.0002821155	-0.0005290222
PHOSPHORUS	177.495	Axial	-0.5413582	-0.001652400	-0.002875653	-0.002554536	0.0004729892
POTASSIUM	766.490	Radial	-38.7713	0.04375639	0.03404866	0.06081186	0.03640865
SILICON	251.611	Axial	35.87338	-0.0002559141	-0.001585140	0.0009407580	-0.0001233604
SODIUM	589.592	Radial	14.12265	0.02370760	0.02804093	0.02448007	0.01860180
STRONTIUM	421.552	Radial	6.068433	-0.00007157612	0.0002183860	-0.00002594690	-0.0004071675
SULFUR	182.034	Axial	2.324463	0.01002738	0.003173975	0.01659866	0.01030952
THALLIUM	190.856	Axial	-0.2283539	-0.001367057	-0.004600053	-0.00002920713	0.0005280886
TIN	189.989	Axial	-0.1023022	-0.001509011	-0.002109267	-0.002410931	-0.000006835440
TITANIUM	334.941	Radial	-0.4258550	-0.001825260	0.0001474411	-0.002937199	-0.002686022
VANADIUM	292.402	Radial	0.7498750	0.006947835	0.006018133	0.009356737	0.005468636
ZINC	206.200	Axial	107.1288	0.0005446186	0.0007317622	0.0004263757	0.0004757179
CERIUM	535.353	Radial	33.32778	0.01353650	0.01321647	-0.05016000	0.07755302
LANTHANUM	333.749	Radial	0.7128442	-0.001691953	-0.004975527	0.004260930	-0.004361264

Rows shaded in gray for analytes that were not ordered.

Sample ID: LCS DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 19:48 Sequence: 235

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12853.79	12825.38	12889.90	12846.10
YTTRIUM	360.073	Axial	199533.8	199913.0	199871.9	198816.7
YTTRIUM	360.073	Radial	2645.523	2624.765	2633.651	2678.155
INDIUM	230.606	Axial	5228.505	5212.544	5223.610	5249.361

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	223.6838	0.9666580	0.9803927	0.9593979	0.9601834
BARIUM	233.527	Axial	4903.324	0.9441695	0.9490845	0.9436779	0.9397462
BORON	249.678	Radial	48.93439	0.9224611	0.9265544	0.9340244	0.9068047
CADMIUM	228.802	Axial	10168.12	0.9665768	0.9702120	0.9643672	0.9651513
CHROMIUM	267.716	Axial	12092.39	0.9672951	0.9672155	0.9663031	0.9683666
COBALT	228.616	Axial	5096.481	0.9449576	0.9507935	0.9464276	0.9376516
LEAD	220.353	Axial	580.2169	1.002592	1.009070	0.9966342	1.002071
LITHIUM	670.784	Radial	4588.641	0.9680328	0.9693619	0.9709480	0.9637884
SELENIUM	196.090	Axial	169.4955	0.9918645	0.9928018	0.9874232	0.9953685
SILVER	328.068	Axial	2953.320	0.1792234	0.1801127	0.1797303	0.1778274
ALUMINUM	308.215	Radial	309.4767	9.452649	9.362555	9.587757	9.407636
ANTIMONY	206.833	Axial	386.4961	0.9637680	0.9709389	0.9516826	0.9686823
BERYLLIUM	313.042	Radial	11825.69	1.001051	1.004133	1.006295	0.9927236
CALCIUM	317.933	Radial	2010.898	9.749309	9.791133	9.790465	9.666331
COPPER	324.754	Axial	15937.85	0.8540997	0.8550106	0.8525842	0.8547043
IRON	259.940	Radial	1337.530	9.409551	9.479809	9.388562	9.360284
MAGNESIUM	279.079	Radial	183.0674	9.802710	9.870261	9.846003	9.691865
MANGANESE	257.610	Axial	58541.98	0.9449116	0.9442928	0.9447462	0.9456958
MOLYBDENUM	202.030	Axial	1984.693	1.011702	1.017212	1.004030	1.013866
NICKEL	231.604	Axial	1783.201	1.014510	1.023347	1.013077	1.007107
PHOSPHORUS	177.495	Axial	79.43833	1.010714	1.009565	1.007939	1.014639
POTASSIUM	766.490	Radial	2240.691	9.859917	9.955530	9.909321	9.714901
SILICON	251.611	Axial	2878.092	0.8447081	0.8461864	0.8454888	0.8424490
SODIUM	589.592	Radial	6988.339	9.895476	9.891957	9.890030	9.904440
STRONTIUM	421.552	Radial	22130.52	0.9805396	0.9837196	0.9845308	0.9733684
SULFUR	182.034	Axial	683.4024	10.22592	10.26890	10.15859	10.25029
THALLIUM	190.856	Axial	228.3608	1.064700	1.073664	1.070630	1.049806
TIN	189.989	Axial	463.4508	1.013777	1.019331	1.006089	1.015910
TITANIUM	334.941	Radial	699.7733	0.9616262	0.9607722	0.9632583	0.9608481
VANADIUM	292.402	Radial	150.6610	0.9248577	0.9218288	0.9313520	0.9213924
ZINC	206.200	Axial	4478.803	1.022964	1.026337	1.020151	1.022405
CERIUM	535.353	Radial	41.29181	0.07692596	0.08576770	0.02502221	0.1199880
LANTHANUM	333.749	Radial	1.773047	0.002267625	-0.002886064	-0.002995149	0.01268409

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835142-02 DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 19:50 Sequence: 236

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12669.28	12670.68	12662.96	12674.20
YTTRIUM	360.073	Axial	199514.8	200578.9	198136.5	199829.1
YTTRIUM	360.073	Radial	2660.407	2637.303	2667.711	2676.207
INDIUM	230.606	Axial	5213.668	5203.942	5209.770	5227.292

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.4419131	0.001340906	0.004987896	-0.002404128	0.001438950
BARIUM	233.527	Axial	217.6089	0.04393608	0.04390957	0.04411325	0.04378542
BORON	249.678	Radial	1.719659	0.03074781	0.03207573	0.02958933	0.03057839
CADMIUM	228.802	Axial	-11.5658	-0.00003503714	-0.0001000223	-0.00008167283	0.00007658368
CHROMIUM	267.716	Axial	-3.02531	0.0004692222	0.0003358209	0.0007569812	0.0003148646
COBALT	228.616	Axial	1.411669	0.0006981731	0.0003500159	0.0009040397	0.0008404638
LEAD	220.353	Axial	-0.6935628	0.001951840	0.002923368	0.001968914	0.0009632396
LITHIUM	670.784	Radial	38.65406	0.005822293	0.006605615	0.004047153	0.006814112
SELENIUM	196.090	Axial	1.214275	0.0009521451	0.001912141	-0.004347001	0.005291295
SILVER	328.068	Axial	-19.7772	-0.0003727757	-0.0004059425	-0.0004446735	-0.0002677110
ALUMINUM	308.215	Radial	6.055073	0.005842354	0.005538744	0.002035828	0.009952491
ANTIMONY	206.833	Axial	0.6415382	-0.001233662	0.0001358567	-0.003297292	-0.0005395497
BERYLLIUM	313.042	Radial	1.831650	-0.00003268772	-0.00004533464	-0.0001866658	0.0001339373
CALCIUM	317.933	Radial	8048.573	40.63791	41.14304	40.38231	40.38839
COPPER	324.754	Axial	66.42392	0.001392632	0.001353914	0.001266814	0.001557169
IRON	259.940	Radial	4.202713	0.02552613	0.02257008	0.01847550	0.03553280
MAGNESIUM	279.079	Radial	173.9053	9.265376	9.263797	9.326549	9.205783
MANGANESE	257.610	Axial	1883.962	0.03042551	0.03022220	0.03071553	0.03033879
MOLYBDENUM	202.030	Axial	3.303750	0.001900862	0.002097135	0.001535645	0.002069807
NICKEL	231.604	Axial	19.40626	0.005030614	0.005162891	0.004894825	0.005034127
PHOSPHORUS	177.495	Axial	6.210555	0.08488992	0.08802475	0.08588109	0.08076391
POTASSIUM	766.490	Radial	1607.236	7.092277	7.135988	7.022399	7.118444
SILICON	251.611	Axial	6472.199	1.913178	1.904143	1.927125	1.908265
SODIUM	589.592	Radial	5786.649	8.148926	8.182755	8.120970	8.143052
STRONTIUM	421.552	Radial	4099.006	0.1803176	0.1802878	0.1804466	0.1802185
SULFUR	182.034	Axial	1851.852	28.15585	28.17900	28.33382	27.95472
THALLIUM	190.856	Axial	0.5407920	0.002182806	0.001053040	0.002413202	0.003082176
TIN	189.989	Axial	1.286831	0.001570899	0.001624258	0.001715019	0.001373421
TITANIUM	334.941	Radial	6.601374	0.007808462	0.01006011	0.006291881	0.007073394
VANADIUM	292.402	Radial	-0.4711282	-0.0005173843	-0.01228579	0.001144610	0.009589023
ZINC	206.200	Axial	115.6445	0.003193826	0.003495919	0.003251722	0.002833839
CERIUM	535.353	Radial	25.37110	-0.04579342	0.01975654	-0.1654497	0.008312852
LANTHANUM	333.749	Radial	-1.90400	-0.01153642	-0.01706960	-0.01245330	-0.005086373

Rows shaded in gray for analytes that were not ordered.

Sample ID: SD DF: 5x Ref Sample ID: L1835142-02 Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 19:53 Sequence: 237

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12518.34	12526.56	12527.19	12501.28
YTTRIUM	360.073	Axial	199220.2	199191.1	199053.2	199416.3
YTTRIUM	360.073	Radial	2585.106	2599.844	2589.513	2565.961
INDIUM	230.606	Axial	5325.860	5303.971	5364.833	5308.777

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.2699974	-0.001795231	-0.0008333164	-0.02131559	-0.004779560
BARIUM	233.527	Axial	34.34921	0.008271566	0.04131437	0.04165833	0.04110080
BORON	249.678	Radial	0.009257716	-0.001466697	0.1016653	0.002994057	-0.1266598
CADMIUM	228.802	Axial	-10.3080	0.00007421072	-0.0001079645	0.0006157685	0.0006053567
CHROMIUM	267.716	Axial	-10.6306	-0.0001409483	0.0009729823	-0.001394183	-0.001693024
COBALT	228.616	Axial	-1.06193	0.0002437272	0.0009308932	0.000007535227	0.002717479
LEAD	220.353	Axial	-1.39897	0.0007794398	-0.01117068	0.007289660	0.01557261
LITHIUM	670.784	Radial	13.65050	0.0006520056	-0.008938914	0.01141128	0.007307722
SELENIUM	196.090	Axial	1.479569	0.002644676	0.01921923	0.01178516	0.008665765
SILVER	328.068	Axial	-15.0787	-0.00009000982	-0.001008415	0.0007293445	-0.001071077
ALUMINUM	308.215	Radial	5.104996	-0.01870943	-0.2580097	-0.2688452	0.2462134
ANTIMONY	206.833	Axial	0.5592294	-0.001422863	-0.007934042	-0.02121171	0.007802813
BERYLLIUM	313.042	Radial	1.333111	-0.00007122978	-0.0004308739	-0.0001406065	-0.0004969662
CALCIUM	317.933	Radial	1618.823	7.923392	39.06098	39.75923	40.03066
COPPER	324.754	Axial	39.93860	-0.00002684896	0.0005211369	0.0004471383	-0.001371010
IRON	259.940	Radial	0.9165139	0.002760098	-0.02379356	0.03010362	0.03509140
MAGNESIUM	279.079	Radial	30.39771	1.754990	8.586461	9.170749	8.567634
MANGANESE	257.610	Axial	356.8841	0.005782776	0.02871561	0.02882707	0.02919896
MOLYBDENUM	202.030	Axial	0.7875341	0.0006045662	0.006792772	0.001021380	0.001254340
NICKEL	231.604	Axial	11.53108	0.0003679308	-0.0001742692	0.006080353	-0.0003871202
PHOSPHORUS	177.495	Axial	0.3661723	0.009885100	0.006824702	0.1004663	0.04098551
POTASSIUM	766.490	Radial	253.5827	1.326834	6.275142	6.669024	6.958349
SILICON	251.611	Axial	1134.390	0.3269828	1.619651	1.635346	1.649746
SODIUM	589.592	Radial	1064.031	1.545315	7.675014	7.677243	7.827472
STRONTIUM	421.552	Radial	747.3893	0.03356310	0.1689110	0.1669696	0.1675657
SULFUR	182.034	Axial	306.0242	4.688548	23.37007	23.64598	23.31217
THALLIUM	190.856	Axial	0.05940849	-0.00007567946	-0.01032280	0.002513111	0.006674499
TIN	189.989	Axial	0.5336117	-0.00008829456	-0.002222105	-0.0008016956	0.001699382
TITANIUM	334.941	Radial	0.6850710	-0.0002726590	0.005110583	-0.004019096	-0.005181372
VANADIUM	292.402	Radial	0.2916181	0.004192878	0.04772067	0.04981742	-0.03464492
ZINC	206.200	Axial	102.7740	0.0004346508	0.0007470345	0.003401830	0.002370898
CERIUM	535.353	Radial	24.88474	-0.04405460	-0.4154080	-0.1251549	-0.1202561
LANTHANUM	333.749	Radial	1.944120	0.003122938	0.03100167	0.03656779	-0.02072540

Rows shaded in gray for analytes that were not ordered.

Sample ID: MS DF: 1x Ref Sample ID: L1835142-02 Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 19:56 Sequence: 238

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12636.79	12648.22	12648.79	12613.38
YTTRIUM	360.073	Axial	196812.2	196100.5	197537.2	196798.9
YTTRIUM	360.073	Radial	2649.674	2635.271	2669.467	2644.284
INDIUM	230.606	Axial	5118.883	5105.601	5158.222	5092.828

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	218.7460	0.9615315	0.9675876	0.9576913	0.9593157
BARIUM	233.527	Axial	4900.894	0.9598771	0.9623744	0.9591981	0.9580588
BORON	249.678	Radial	49.48218	0.9312165	0.9276405	0.9399344	0.9260746
CADMIUM	228.802	Axial	9883.927	0.9557001	0.9591039	0.9562271	0.9517693
CHROMIUM	267.716	Axial	11677.76	0.9470619	0.9488801	0.9459091	0.9463965
COBALT	228.616	Axial	4884.507	0.9250602	0.9324324	0.9195533	0.9231949
LEAD	220.353	Axial	560.6750	0.9896314	0.9965821	0.9826120	0.9897002
LITHIUM	670.784	Radial	4522.712	0.9525866	0.9572437	0.9484146	0.9521016
SELENIUM	196.090	Axial	165.1678	0.9830785	0.9761619	0.9873100	0.9857637
SILVER	328.068	Axial	2870.892	0.1766449	0.1768990	0.1768274	0.1762084
ALUMINUM	308.215	Radial	304.8787	9.294552	9.315771	9.284347	9.283539
ANTIMONY	206.833	Axial	376.6346	0.9552583	0.9494040	0.9652597	0.9511112
BERYLLIUM	313.042	Radial	11663.69	0.9857592	0.9898766	0.9806663	0.9867346
CALCIUM	317.933	Radial	10321.85	52.50252	52.88314	52.22837	52.39607
COPPER	324.754	Axial	15397.53	0.8365168	0.8392401	0.8330512	0.8372592
IRON	259.940	Radial	1324.404	9.302548	9.360768	9.221545	9.325331
MAGNESIUM	279.079	Radial	365.0992	19.41118	19.42541	19.40790	19.40023
MANGANESE	257.610	Axial	57807.85	0.9459739	0.9504567	0.9419391	0.9455260
MOLYBDENUM	202.030	Axial	1938.109	1.004903	1.007505	1.010496	0.9967075
NICKEL	231.604	Axial	1729.672	1.005064	1.012160	1.001641	1.001390
PHOSPHORUS	177.495	Axial	87.01481	1.125523	1.121472	1.141584	1.113514
POTASSIUM	766.490	Radial	3930.670	17.11098	17.17311	17.07444	17.08539
SILICON	251.611	Axial	9524.244	2.859253	2.875960	2.841555	2.860242
SODIUM	589.592	Radial	12234.97	17.29510	17.39078	17.19999	17.29452
STRONTIUM	421.552	Radial	25699.98	1.136947	1.143073	1.127701	1.140068
SULFUR	182.034	Axial	2649.211	40.39299	40.33113	40.59480	40.25305
THALLIUM	190.856	Axial	217.6216	1.036295	1.035694	1.042017	1.031176
TIN	189.989	Axial	446.6776	0.9938199	0.9951798	1.001241	0.9850388
TITANIUM	334.941	Radial	697.6694	0.9572251	0.9582508	0.9573633	0.9560610
VANADIUM	292.402	Radial	145.2794	0.8905182	0.9025114	0.8889156	0.8801276
ZINC	206.200	Axial	4324.006	1.004123	1.010596	1.002349	0.9994231
CERIUM	535.353	Radial	32.01719	0.005615914	0.01760869	0.02693221	-0.02769316
LANTHANUM	333.749	Radial	-0.5919517	-0.006609668	-0.009831460	-0.002287057	-0.007710486

Rows shaded in gray for analytes that were not ordered.

Sample ID: MSD DF: 1x Ref Sample ID: L1835142-02 Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 19:58 Sequence: 239

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12598.72	12647.34	12550.52	12598.31
YTTRIUM	360.073	Axial	196217.3	195249.1	196963.9	196438.7
YTTRIUM	360.073	Radial	2622.739	2620.337	2623.544	2624.336
INDIUM	230.606	Axial	5103.059	5092.624	5107.046	5109.507

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	217.3069	0.9581073	0.9537515	0.9656648	0.9549056
BARIUM	233.527	Axial	4874.579	0.9576108	0.9613814	0.9593643	0.9520866
BORON	249.678	Radial	49.64871	0.9439980	0.9411061	0.9481234	0.9427646
CADMIUM	228.802	Axial	9799.847	0.9504393	0.9538619	0.9507841	0.9466719
CHROMIUM	267.716	Axial	11568.69	0.9410657	0.9423427	0.9398514	0.9410029
COBALT	228.616	Axial	4840.067	0.9194809	0.9286031	0.9144047	0.9154348
LEAD	220.353	Axial	554.7842	0.9822718	0.9842462	0.9816037	0.9809653
LITHIUM	670.784	Radial	4499.259	0.9573711	0.9558460	0.9571465	0.9591209
SELENIUM	196.090	Axial	165.3407	0.9870987	0.9903600	0.9859545	0.9849816
SILVER	328.068	Axial	2858.681	0.1764294	0.1768935	0.1757567	0.1766381
ALUMINUM	308.215	Radial	299.7906	9.231994	9.146819	9.167337	9.381825
ANTIMONY	206.833	Axial	374.2753	0.9521426	0.9530246	0.9568976	0.9465058
BERYLLIUM	313.042	Radial	11515.80	0.9832326	0.9796236	0.9866974	0.9833768
CALCIUM	317.933	Radial	10364.64	53.26917	53.16896	53.29680	53.34177
COPPER	324.754	Axial	15485.91	0.8438728	0.8420965	0.8486406	0.8408811
IRON	259.940	Radial	1313.139	9.317817	9.315338	9.265420	9.372695
MAGNESIUM	279.079	Radial	362.9037	19.49208	19.40345	19.45027	19.62251
MANGANESE	257.610	Axial	57787.83	0.9485023	0.9486180	0.9498141	0.9470747
MOLYBDENUM	202.030	Axial	1926.382	1.001858	0.9997918	1.006783	0.9990005
NICKEL	231.604	Axial	1714.594	0.9993589	1.009120	0.9940225	0.9949345
PHOSPHORUS	177.495	Axial	86.35534	1.120402	1.128229	1.127074	1.105902
POTASSIUM	766.490	Radial	3917.478	17.22709	17.26089	17.24769	17.17269
SILICON	251.611	Axial	9591.488	2.888235	2.888518	2.890363	2.885825
SODIUM	589.592	Radial	12251.38	17.49567	17.47055	17.51397	17.50250
STRONTIUM	421.552	Radial	25592.24	1.143773	1.141748	1.144847	1.144724
SULFUR	182.034	Axial	2667.178	40.79032	40.71001	40.80723	40.85372
THALLIUM	190.856	Axial	216.8425	1.035820	1.044752	1.034316	1.028394
TIN	189.989	Axial	444.0416	0.9909546	0.9894925	0.9971751	0.9861961
TITANIUM	334.941	Radial	686.2734	0.9512520	0.9539820	0.9491488	0.9506251
VANADIUM	292.402	Radial	144.6729	0.8958743	0.8946618	0.9014569	0.8915043
ZINC	206.200	Axial	4271.364	0.9946739	0.9984487	0.9958725	0.9897004
CERIUM	535.353	Radial	35.91553	0.03833522	0.05812054	-0.03650725	0.09339236
LANTHANUM	333.749	Radial	1.757659	0.002330807	0.0008123813	0.004519140	0.001660900

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835142-04 DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 20:01 Sequence: 240

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12625.04	12623.74	12624.44	12626.94
YTTRIUM	360.073	Axial	197820.2	197714.5	197854.9	197891.2
YTTRIUM	360.073	Radial	2632.285	2627.391	2614.636	2654.830
INDIUM	230.606	Axial	5160.043	5161.124	5148.201	5170.806

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.9470010	0.003571996	0.002314918	0.003424567	0.004976502
BARIUM	233.527	Axial	333.1304	0.06669649	0.06724539	0.06656881	0.06627526
BORON	249.678	Radial	2.116279	0.03861470	0.03639564	0.04034302	0.03910543
CADMIUM	228.802	Axial	-12.6189	-0.0001407148	0.00001019082	-0.0001631271	-0.0002692082
CHROMIUM	267.716	Axial	2.370190	0.0009012566	0.001139247	0.0009115151	0.0006530074
COBALT	228.616	Axial	2.480133	0.0009020696	0.001127010	0.0009704407	0.0006087586
LEAD	220.353	Axial	-1.07193	0.001278490	-0.0003682519	0.002648366	0.001555355
LITHIUM	670.784	Radial	39.10498	0.006005669	0.006898866	0.005913924	0.005204216
SELENIUM	196.090	Axial	0.9409767	-0.0006592261	0.002984438	-0.0001012784	-0.004860838
SILVER	328.068	Axial	-27.2599	-0.0008388064	-0.0008804784	-0.001017829	-0.0006181120
ALUMINUM	308.215	Radial	5.252738	-0.01758059	0.05233952	-0.1298389	0.02475762
ANTIMONY	206.833	Axial	1.575803	0.001151419	0.001665179	0.0004686972	0.001320381
BERYLLIUM	313.042	Radial	2.385129	0.00001642535	-0.0002291968	0.0002127580	0.00006571482
CALCIUM	373.690	Radial	10331.29	62.60139	62.70167	62.77612	62.32637
CERIUM	535.353	Radial	29.92892	-0.008758265	-0.02276614	0.009259874	-0.01276853
COPPER	324.754	Axial	52.79577	0.0006850604	0.0009316566	0.0006784884	0.0004450362
IRON	259.940	Radial	1.801819	0.008862230	0.005269542	0.007697941	0.01361921
LANTHANUM	333.749	Radial	-0.8703594	-0.007700515	-0.001095301	-0.01952050	-0.002485746
MAGNESIUM	279.079	Radial	271.5679	14.56060	14.41541	14.61143	14.65496
MANGANESE	257.610	Axial	14313.62	0.2330438	0.2333038	0.2330235	0.2328041
MOLYBDENUM	202.030	Axial	3.931710	0.002232739	0.001933419	0.002042628	0.002722171
NICKEL	231.604	Axial	17.58313	0.004088529	0.003210617	0.004122992	0.004931977
PHOSPHORUS	177.495	Axial	2.086485	0.03201842	0.03612457	0.03850697	0.02142374
POTASSIUM	766.490	Radial	1690.615	7.526798	7.505468	7.585300	7.489625
SILICON	251.611	Axial	5371.726	1.599697	1.607847	1.599274	1.591970
SODIUM	589.592	Radial	8754.767	12.45832	12.49230	12.47472	12.40793
STRONTIUM	421.552	Radial	6040.340	0.2687199	0.2675387	0.2693627	0.2692584
SULFUR	182.034	Axial	3241.110	49.46944	49.70086	49.43138	49.27609
THALLIUM	190.856	Axial	0.1482912	0.0003559925	0.001810752	-0.00007606315	-0.0006667109
TIN	189.989	Axial	1.030109	0.001008369	0.001218093	0.0001136280	0.001693387
TITANIUM	334.941	Radial	8.131736	0.01000411	0.008943133	0.009199600	0.01186961
VANADIUM	292.402	Radial	0.7143267	0.006827473	0.009455207	0.01001484	0.001012372
ZINC	206.200	Axial	118.5369	0.003978468	0.004066298	0.004204356	0.003664749

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835142-07 DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 20:04 Sequence: 241

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12613.03	12635.48	12567.88	12635.73
YTTRIUM	360.073	Axial	197772.8	197029.9	198246.8	198041.7
YTTRIUM	360.073	Radial	2613.588	2595.201	2643.209	2602.355
INDIUM	230.606	Axial	5219.485	5209.041	5207.349	5242.064

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.2635914	0.0005666196	0.001471342	0.001736681	-0.001508164
BARIUM	233.527	Axial	328.0646	0.06576656	0.06621770	0.06605979	0.06502217
BORON	249.678	Radial	0.5550421	0.009140166	0.03210411	-0.001544057	-0.003139555
CADMIUM	228.802	Axial	-12.5293	-0.0001330161	-0.0001027092	-0.00002266216	-0.0002736770
CHROMIUM	267.716	Axial	-0.3718344	0.0006805476	0.0009662974	0.0007972001	0.0002781453
COBALT	228.616	Axial	-0.3197322	0.0003764886	0.0002128597	0.0004172472	0.0004993590
LEAD	220.353	Axial	-1.15697	0.001155460	0.002417216	0.001475225	-0.0004260620
LITHIUM	670.784	Radial	31.56477	0.004453314	0.005579315	0.003735785	0.004044841
SELENIUM	196.090	Axial	1.733608	0.004109541	0.004565822	0.007915073	-0.0001522713
SILVER	328.068	Axial	-29.0346	-0.0009487613	-0.001743960	-0.0007554987	-0.0003468255
ALUMINUM	308.215	Radial	7.718400	0.06163961	0.03502611	0.05284931	0.09704341
ANTIMONY	206.833	Axial	0.8296356	-0.0007434986	-0.002216264	0.0009438262	-0.0009580577
BERYLLIUM	313.042	Radial	0.3050842	-0.0001617541	-0.0003662854	0.00003907154	-0.0001580485
CALCIUM	317.933	Radial	8201.437	42.17370	42.24789	41.89626	42.37693
CERIUM	535.353	Radial	32.82335	0.01557217	0.02571898	-0.03307405	0.05407157
COPPER	324.754	Axial	55.43978	0.0008291596	0.0008879167	0.0006269406	0.0009726216
IRON	259.940	Radial	0.6793151	0.001015061	0.004796358	-0.005916091	0.004164916
LANTHANUM	333.749	Radial	1.857951	0.002764899	0.004715437	-0.002054669	0.005633927
MAGNESIUM	279.079	Radial	141.4821	7.691187	7.614906	7.723441	7.735213
MANGANESE	257.610	Axial	55.43934	0.0009163715	0.0009739516	0.0007975659	0.0009775972
MOLYBDENUM	202.030	Axial	2.540600	0.001512297	0.001331000	0.001562697	0.001643194
NICKEL	231.604	Axial	14.81128	0.002384431	0.003293767	0.001843252	0.002016273
PHOSPHORUS	177.495	Axial	1.738911	0.02755917	0.02633452	0.02741011	0.02893287
POTASSIUM	766.490	Radial	1234.995	5.592754	5.580317	5.580904	5.617040
SILICON	251.611	Axial	1841.174	0.5413909	0.5393835	0.5426385	0.5421507
SODIUM	589.592	Radial	11998.69	17.19526	17.17798	17.11974	17.28808
STRONTIUM	421.552	Radial	4463.707	0.1999174	0.1995921	0.1993823	0.2007778
SULFUR	182.034	Axial	1012.712	15.45502	15.45737	15.43848	15.46920
THALLIUM	190.856	Axial	-0.02271079	-0.0004524373	-0.002562255	0.0009753325	0.0002296103
TIN	189.989	Axial	0.1362952	-0.0009830013	-0.002605774	-0.0001919205	-0.0001513098
TITANIUM	334.941	Radial	5.047197	0.005792110	0.003203968	0.006142456	0.008029907
VANADIUM	292.402	Radial	-1.22697	-0.005173423	0.002536494	-0.008434141	-0.009622622
ZINC	206.200	Axial	111.5858	0.002349238	0.002215260	0.002461282	0.002371171

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835192-01 DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 20:07 Sequence: 242

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12625.20	12636.02	12624.26	12615.33
YTTRIUM	360.073	Axial	198716.0	199510.1	198401.0	198236.8
YTTRIUM	360.073	Radial	2646.440	2650.523	2679.858	2608.937
INDIUM	230.606	Axial	5213.866	5202.444	5242.796	5196.357

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.1802653	-0.001390354	-0.001712033	-0.001908620	-0.0005504085
BARIUM	233.527	Axial	217.2129	0.04400650	0.04417620	0.04447352	0.04336977
BORON	249.678	Radial	1.329829	0.02336488	0.02819972	0.04184511	0.00004980040
CADMIUM	228.802	Axial	-12.4448	-0.0001238902	-0.00008125771	-0.0001749289	-0.0001154841
CHROMIUM	267.716	Axial	-0.5261052	0.0006674585	0.0008860700	0.0004329969	0.0006833087
COBALT	228.616	Axial	1.965640	0.0008010487	0.0008534194	0.0009142993	0.0006354273
LEAD	220.353	Axial	-0.2483019	0.002720641	0.0004624159	0.002646691	0.005052816
LITHIUM	670.784	Radial	40.06460	0.006170216	0.007615932	0.004339422	0.006555294
SELENIUM	196.090	Axial	1.683033	0.003786766	0.009114328	0.002837275	-0.0005913037
SILVER	328.068	Axial	-20.9021	-0.0004467904	0.0001510720	-0.0009588670	-0.0005325761
ALUMINUM	308.215	Radial	6.155159	0.009764626	0.1432317	-0.04754660	-0.06639119
ANTIMONY	206.833	Axial	0.2784308	-0.002150103	-0.005176415	-0.003419063	0.002145170
BERYLLIUM	313.042	Radial	0.1110323	-0.0001772737	-0.0002077247	-0.0001588715	-0.0001652249
CALCIUM	317.933	Radial	8714.612	44.28977	44.09491	43.88098	44.89343
CERIUM	535.353	Radial	31.42916	0.001022681	-0.003894446	0.05318211	-0.04621962
COPPER	324.754	Axial	107.6391	0.003630697	0.003611944	0.003866520	0.003413627
IRON	259.940	Radial	3.366982	0.01977261	0.02502036	0.02241750	0.01187997
LANTHANUM	333.749	Radial	-0.7495801	-0.007265227	-0.005404565	0.00007951027	-0.01647063
MAGNESIUM	279.079	Radial	189.1744	10.12385	10.07015	9.941038	10.36038
MANGANESE	257.610	Axial	963.8933	0.01563555	0.01547198	0.01560907	0.01582562
MOLYBDENUM	202.030	Axial	2.935824	0.001716077	0.001476810	0.001979260	0.001692161
NICKEL	231.604	Axial	21.16170	0.006035362	0.006138280	0.006802136	0.005165671
PHOSPHORUS	177.495	Axial	5.848772	0.08050186	0.08813761	0.07703902	0.07632894
POTASSIUM	766.490	Radial	1743.100	7.713939	7.644902	7.693865	7.803050
SILICON	251.611	Axial	6904.407	2.049861	2.044992	2.046418	2.058173
SODIUM	589.592	Radial	6260.848	8.862921	8.849436	8.850904	8.888423
STRONTIUM	421.552	Radial	4423.746	0.1956618	0.1960143	0.1951013	0.1958699
SULFUR	182.034	Axial	2004.181	30.58025	30.67788	30.65569	30.40718
THALLIUM	190.856	Axial	-0.3997574	-0.002214738	-0.001975252	-0.002216438	-0.002452524
TIN	189.989	Axial	-0.01995270	-0.001332641	-0.002557177	-0.0005020141	-0.0009387322
TITANIUM	334.941	Radial	5.257145	0.006000960	0.006182272	0.005542545	0.006278063
VANADIUM	292.402	Radial	-0.2284966	0.001082309	0.006721585	-0.01053294	0.007058281
ZINC	206.200	Axial	114.7236	0.003070366	0.003056044	0.003046712	0.003108343

Rows shaded in gray for analytes that were not ordered.

Sample ID: L1835192-02 DF: 1x Batch: WG2470166 Units: mg/l
Analyzed: 03/18/25 20:10 Sequence: 243

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12518.49	12532.50	12529.42	12493.53
YTTRIUM	360.073	Axial	197486.4	197379.9	196723.5	198355.8
YTTRIUM	360.073	Radial	2649.457	2618.256	2698.442	2631.673
INDIUM	230.606	Axial	5153.475	5170.554	5123.552	5166.319

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	0.2792535	0.0006447645	0.0004889369	-0.001212326	0.002657683
BARIUM	233.527	Axial	309.8618	0.06265800	0.06305673	0.06243684	0.06248042
BORON	249.678	Radial	2.109267	0.03824121	0.04135837	0.03647972	0.03688555
CADMIUM	228.802	Axial	-11.5027	-0.00004237909	-0.0002069850	0.0002335631	-0.0001537153
CHROMIUM	267.716	Axial	1.969722	0.0008694343	0.001039768	0.0008651451	0.0007033899
COBALT	228.616	Axial	3.155525	0.001030152	0.001267141	0.001321047	0.0005022676
LEAD	220.353	Axial	-1.38403	0.0007381899	-0.001228383	0.003609323	-0.0001663695
LITHIUM	670.784	Radial	47.59369	0.007738151	0.005834108	0.007757560	0.009622784
SELENIUM	196.090	Axial	1.117970	0.0004573449	0.003933546	-0.001917887	-0.0006436244
SILVER	328.068	Axial	-20.8923	-0.0004529191	-0.0001415695	-0.0006298263	-0.0005873614
ALUMINUM	308.215	Radial	4.524748	-0.04142147	-0.08136370	0.007137747	-0.05003845
ANTIMONY	206.833	Axial	0.6496394	-0.001190477	-0.0003679512	-0.004478765	0.001275287
BERYLLIUM	313.042	Radial	-1.19293	-0.0002907822	-0.0004716690	0.00006217349	-0.0004628512
CALCIUM	373.690	Radial	10325.61	62.16883	62.62207	61.19975	62.68468
CERIUM	535.353	Radial	36.00851	0.03593494	-0.01422836	0.06260474	0.05942845
COPPER	324.754	Axial	60.40228	0.001103157	0.001323784	0.001127567	0.0008581211
IRON	259.940	Radial	4.510404	0.02784584	0.03848448	0.02831314	0.01673990
LANTHANUM	333.749	Radial	1.202933	0.0002277538	0.007816930	-0.004772198	-0.002361471
MAGNESIUM	279.079	Radial	275.6996	14.68922	14.97724	14.32113	14.76928
MANGANESE	257.610	Axial	30164.94	0.4919427	0.4926087	0.4931279	0.4900914
MOLYBDENUM	202.030	Axial	3.164694	0.001848879	0.001080010	0.002561848	0.001904778
NICKEL	231.604	Axial	18.95505	0.004900968	0.004503235	0.005695438	0.004504230
PHOSPHORUS	177.495	Axial	1.513250	0.02479803	0.01845099	0.02933416	0.02660894
POTASSIUM	766.490	Radial	1685.823	7.459529	7.543123	7.358455	7.477010
SILICON	251.611	Axial	5432.817	1.620773	1.620436	1.624968	1.616916
SODIUM	589.592	Radial	8872.388	12.54544	12.64871	12.35193	12.63568
STRONTIUM	421.552	Radial	6059.071	0.2678060	0.2683578	0.2679054	0.2671548
SULFUR	182.034	Axial	3255.857	50.11776	50.56746	49.69649	50.08934
THALLIUM	190.856	Axial	-0.3945332	-0.002207682	-0.002033409	-0.0006875212	-0.003902117
TIN	189.989	Axial	0.1094653	-0.001041312	-0.001170062	-0.002091089	0.0001372151
TITANIUM	334.941	Radial	7.040046	0.008454082	0.009729044	0.006930054	0.008703150
VANADIUM	292.402	Radial	0.7141232	0.006732341	-0.004936025	0.009154933	0.01597812
ZINC	206.200	Axial	139.7687	0.009315837	0.009556744	0.009060719	0.009330049

Rows shaded in gray for analytes that were not ordered.

Sample ID: CCV Units: mg/l
Analyzed: 03/18/25 20:12 Sequence: 244 Standard ID: 25C17425

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12295.43	12293.41	12284.33	12308.54
YTTRIUM	360.073	Axial	192152.6	191819.2	191665.0	192973.6
YTTRIUM	360.073	Radial	2574.301	2576.117	2596.659	2550.129
INDIUM	230.606	Axial	4959.415	4933.015	4955.960	4989.269

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	297.8546	9.347735	9.391595	9.239513	9.412098
ANTIMONY	206.833	Axial	182.3622	0.4739314	0.4728002	0.4748788	0.4741150
ARSENIC	189.042	Axial	209.6102	0.9469525	0.9452531	0.9561719	0.9394326
BARIUM	233.527	Axial	2369.003	0.4776204	0.4770605	0.4783986	0.4774020
BERYLLIUM	313.042	Radial	2328.238	0.2023879	0.2024147	0.2010755	0.2036735
BORON	249.678	Radial	49.12528	0.9515569	0.9623761	0.9583337	0.9339609
CADMIUM	228.802	Axial	4947.820	0.4922195	0.4971812	0.4812503	0.4982270
CALCIUM	317.933	Radial	9185.025	48.03646	48.07243	47.77110	48.26584
CHROMIUM	267.716	Axial	11630.38	0.9660792	0.9691238	0.9655511	0.9635626
COBALT	228.616	Axial	4859.148	0.9498552	0.9590226	0.9506918	0.9398511
COPPER	324.754	Axial	15463.33	0.8605193	0.8635197	0.8584073	0.8596308
IRON	259.940	Radial	1327.651	9.598435	9.556505	9.579802	9.658998
LEAD	220.353	Axial	273.3306	0.4995272	0.5018474	0.5019011	0.4948330
LITHIUM	670.784	Radial	4438.270	0.9622174	0.9564094	0.9585073	0.9717354
MAGNESIUM	279.079	Radial	182.6095	10.04619	9.960458	9.947639	10.23046
MANGANESE	257.610	Axial	56007.67	0.9387341	0.9417523	0.9376375	0.9368125
MOLYBDENUM	202.030	Axial	483.2774	0.2576807	0.2558965	0.2598616	0.2572838
NICKEL	231.604	Axial	1726.401	1.035641	1.044157	1.041461	1.021304
PHOSPHORUS	177.495	Axial	77.83974	1.035227	1.034152	1.043473	1.028057
POTASSIUM	766.490	Radial	10840.07	48.18709	48.20064	47.99625	48.36439
SELENIUM	196.090	Axial	158.1579	0.9673921	0.9680569	0.9725370	0.9615824
SILICON	251.611	Axial	6110.912	1.875330	1.868114	1.880707	1.877170
SILVER	328.068	Axial	7780.726	0.4888939	0.4889464	0.4886846	0.4890506
SODIUM	589.592	Radial	32045.79	46.61917	46.48433	46.45131	46.92189
STRONTIUM	421.552	Radial	21657.80	0.9861378	0.9856547	0.9803235	0.9924353
SULFUR	182.034	Axial	325.9526	5.086494	5.073925	5.100768	5.084788
THALLIUM	190.856	Axial	203.8226	1.001789	0.9963493	1.003376	1.005643
TIN	189.989	Axial	218.4792	0.4989575	0.4972090	0.5010616	0.4986019
TITANIUM	334.941	Radial	695.8051	0.9826539	0.9797533	0.9837364	0.9844721
VANADIUM	292.402	Radial	152.4096	0.9614272	0.9448573	0.9603331	0.9790913
ZINC	206.200	Axial	4301.792	1.027253	1.031532	1.032220	1.018009
CERIUM	535.353	Radial	20.04699	-0.08144486	-0.05212304	-0.1007152	-0.09149638
HOT WATER SOL. BORON	249.678	Radial	49.12528	0.9515569	0.9623761	0.9583337	0.9339609
LANTHANUM	333.749	Radial	2.229092	0.004287997	0.006620609	0.002675542	0.003567839

Sample ID: CCB Units: mg/l
Analyzed: 03/18/25 20:15 Sequence: 245

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	12414.18	12393.09	12418.38	12431.06
YTTRIUM	360.073	Axial	199137.4	197977.3	199561.3	199873.5
YTTRIUM	360.073	Radial	2522.675	2537.188	2503.342	2527.495
INDIUM	230.606	Axial	5343.624	5320.290	5382.283	5328.299

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5.119258	-0.01465088	0.07757528	-0.03458751	-0.08694042
ANTIMONY	206.833	Axial	1.870136	0.001981969	0.002389508	0.001380236	0.002176164
ARSENIC	189.042	Axial	-0.4431646	-0.002580347	-0.0008773493	-0.005141893	-0.001721800
BARIUM	233.527	Axial	-6.57568	0.0001820273	0.0001487905	0.0004440891	-0.00004679784
BERYLLIUM	313.042	Radial	-0.1944120	-0.0002033930	-0.0003926111	-0.0001121194	-0.0001054484
BORON	249.678	Radial	-0.7776482	-0.01686257	-0.04036439	-0.001544057	-0.008679264
CADMIUM	228.802	Axial	-9.07709	0.0001868018	0.0001869818	0.0002709514	0.0001024721
CALCIUM	317.933	Radial	116.1751	0.01229719	0.009603634	0.01034209	0.01694585
CERIUM	535.353	Radial	28.56468	-0.009688499	-0.04458729	-0.004488472	0.02001027
CHROMIUM	267.716	Axial	-5.97316	0.0002328960	0.0007100872	-0.0003432687	0.0003318695
COBALT	228.616	Axial	-2.95854	-0.0001006587	-0.0001459112	-0.00002477818	-0.0001312866
COPPER	324.754	Axial	23.91593	-0.0008895584	-0.001219136	-0.0006825834	-0.0007669558
HOT WATER SOL. BORON	249.678	Radial	-0.7776482	-0.01686257	-0.04036439	-0.001544057	-0.008679264
IRON	259.940	Radial	2.707882	0.01608843	0.02303835	0.008529838	0.01669709
LANTHANUM	333.749	Radial	1.286823	0.0007531145	0.0001207479	0.006829069	-0.004690474
LEAD	220.353	Axial	-1.55431	0.0005321112	0.0002911246	-0.0004917556	0.001796965
LITHIUM	670.784	Radial	11.41476	0.0002283070	-0.00008480651	0.001574449	-0.0008047212
MAGNESIUM	279.079	Radial	-1.11092	0.04621695	0.04103675	0.09608779	0.001526325
MANGANESE	257.610	Axial	15.31044	0.0002611332	0.0002777202	0.0003080037	0.0001976757
MOLYBDENUM	202.030	Axial	-1.30955	-0.0004981413	-0.0003115303	-0.0003807143	-0.0008021795
NICKEL	231.604	Axial	9.808885	-0.0006154636	-0.001081116	-0.0005356169	-0.0002296578
PHOSPHORUS	177.495	Axial	-0.8512675	-0.006034191	-0.009442073	-0.006412805	-0.002247696
POTASSIUM	766.490	Radial	-55.8379	-0.04355600	0.03248461	-0.09617977	-0.06697285
SELENIUM	196.090	Axial	0.4491413	-0.003558322	-0.0009182636	0.001488328	-0.01124503
SILICON	251.611	Axial	37.13675	0.0003519043	0.0003006902	-0.0001369025	0.0008919251
SILVER	328.068	Axial	-14.5669	-0.00005943990	0.00001563634	-0.0003788416	0.0001848855
SODIUM	589.592	Radial	33.63328	0.05389976	0.04996249	0.05345083	0.05828595
STRONTIUM	421.552	Radial	5.540743	-0.00007796711	-0.00007522635	-0.0001907379	0.00003206291
SULFUR	182.034	Axial	2.054131	0.007444503	0.01108714	-0.002071815	0.01331818
THALLIUM	190.856	Axial	-0.6338507	-0.003246091	-0.004333182	-0.0008504663	-0.004554624
TIN	189.989	Axial	0.1781560	-0.0008839469	-0.00007514147	-0.001371586	-0.001205114
TITANIUM	334.941	Radial	0.7869059	-0.0001008088	0.001037967	-0.0005871112	-0.0007532825
VANADIUM	292.402	Radial	0.2707882	0.004123033	0.007459767	-0.001501910	0.006411241
ZINC	206.200	Axial	101.1539	0.0002494725	0.0002372406	0.0003430685	0.0001681082

Sample ID: ICSA Units: mg/l
Analyzed: 03/18/25 22:40 Sequence: 298 Standard ID: 25C17426

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11297.89	11266.99	11307.22	11319.45
YTTRIUM	360.073	Axial	175439.1	175901.7	174661.3	175754.3
YTTRIUM	360.073	Radial	2450.895	2455.363	2442.949	2454.373
INDIUM	230.606	Axial	4231.344	4219.816	4224.004	4250.213

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	13444.87	451.5991	450.7997	452.4132	451.5844
ANTIMONY	206.833	Axial	1.413310	0.001153924	-0.003528422	0.003276556	0.003713638
ARSENIC	189.042	Axial	-0.2363224	-0.001754868	0.001209454	-0.001165806	-0.005308252
BARIUM	233.527	Axial	-0.3670973	0.001410070	0.001006414	0.001574331	0.001649464
BERYLLIUM	313.042	Radial	-1.49614	-0.0003232637	-0.0002170013	-0.0002323547	-0.0005204353
BORON	249.678	Radial	-7.15640	-0.1474000	-0.1639083	-0.1543816	-0.1239100
CADMIUM	228.802	Axial	-7.84177	0.0002319677	0.0001197527	0.0004907116	0.00008543875
CALCIUM	373.690	Radial	73104.50	476.0355	474.3802	476.2414	477.4850
CERIUM	535.353	Radial	-0.6921008	-0.2451583	-0.2819813	-0.2662954	-0.1871981
CHROMIUM	267.716	Axial	9.418503	0.001566072	0.001811978	0.001473205	0.001413033
COBALT	228.616	Axial	3.354519	0.001204682	0.001645896	0.0008873155	0.001080835
COPPER	324.754	Axial	16.41115	-0.001172786	-0.001274821	-0.0009455079	-0.001298029
HOT WATER SOL. BORON	249.678	Radial	-7.15640	-0.1474000	-0.1639083	-0.1543816	-0.1239100
IRON	271.441	Radial	1643.596	196.1821	195.7484	196.3287	196.4692
LANTHANUM	333.749	Radial	-2.52083	-0.01463455	-0.01394214	-0.01567887	-0.01428264
LEAD	220.353	Axial	-0.7216022	0.001618508	0.005209797	0.0003383914	-0.0006926638
LITHIUM	670.784	Radial	84.26948	0.01692851	0.01670083	0.01787200	0.01621272
MAGNESIUM	279.079	Radial	9100.709	520.3018	519.3355	519.6939	521.8760
MANGANESE	257.610	Axial	44.95957	0.0008386103	0.0008020991	0.0007524770	0.0009612547
MOLYBDENUM	202.030	Axial	-0.6508190	-0.0001843129	0.0001022919	-0.0003600120	-0.0002952185
NICKEL	231.604	Axial	15.51877	0.004869091	0.006114347	0.004372088	0.004120837
PHOSPHORUS	177.495	Axial	-0.6375768	-0.004061363	-0.007719749	-0.004790611	0.0003262710
POTASSIUM	766.490	Radial	-42.6619	0.01058547	0.03047175	0.01889758	-0.01761292
SELENIUM	196.090	Axial	-1.63532	-0.01726648	-0.02049494	-0.02671091	-0.004593592
SILICON	251.611	Axial	-17.9530	-0.01677731	-0.01648745	-0.01730759	-0.01653690
SILVER	328.068	Axial	-40.0925	-0.001931734	-0.001831600	-0.001629999	-0.002333604
SODIUM	589.592	Radial	124.8297	0.1946717	0.2136866	0.1834150	0.1869134
STRONTIUM	421.552	Radial	147.9453	0.006742394	0.006876614	0.006658885	0.006691684
SULFUR	182.034	Axial	3.883945	0.04184094	0.05407609	0.04501842	0.02642830
THALLIUM	190.856	Axial	0.1501145	0.0005281807	0.002983374	0.001630639	-0.003029470
TIN	189.989	Axial	-1.24912	-0.004400272	-0.004124326	-0.002920005	-0.006156485
TITANIUM	334.941	Radial	29.55780	0.04267186	0.04178291	0.04600118	0.04023150
VANADIUM	292.402	Radial	4.120219	0.02965541	0.03051469	0.04205614	0.01639540
ZINC	206.200	Axial	375.6774	0.07569654	0.07638276	0.07539987	0.07530699

Sample ID: ICSAB Units: mg/l
Analyzed: 03/18/25 22:43 Sequence: 299 Standard ID: 25C17427

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11151.73	11130.23	11161.51	11163.44
YTTRIUM	360.073	Axial	173398.7	172852.7	174133.8	173209.6
YTTRIUM	360.073	Radial	2468.524	2457.250	2464.526	2483.795
INDIUM	230.606	Axial	4152.236	4152.759	4165.228	4138.722

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	13511.77	450.6092	452.4130	450.3493	449.0654
ANTIMONY	206.833	Axial	168.3882	0.4825496	0.4841170	0.4875683	0.4759635
ARSENIC	189.042	Axial	94.79252	0.4718651	0.4765304	0.4718056	0.4672592
BARIUM	233.527	Axial	2102.533	0.4674043	0.4689782	0.4673516	0.4658830
BERYLLIUM	313.042	Radial	5485.100	0.4974908	0.5002221	0.4939603	0.4982900
BORON	249.678	Radial	40.52984	0.8185909	0.8261283	0.8221642	0.8074801
CADMIUM	228.802	Axial	9093.509	0.9963272	1.000705	0.9956184	0.9926579
CALCIUM	373.690	Radial	73344.51	474.1921	476.2601	473.2843	473.0318
CERIUM	535.353	Radial	-9.29426	-0.3154266	-0.2297945	-0.3029695	-0.4135158
CHROMIUM	267.716	Axial	5106.320	0.4703965	0.4697654	0.4687205	0.4727034
COBALT	228.616	Axial	2041.225	0.4767801	0.4778738	0.4760223	0.4764443
COPPER	324.754	Axial	7313.255	0.4499590	0.4503800	0.4481144	0.4513827
HOT WATER SOL. BORON	249.678	Radial	40.52984	0.8185909	0.8261283	0.8221642	0.8074801
IRON	271.441	Radial	1626.819	192.7913	193.2721	192.8911	192.2107
LANTHANUM	333.749	Radial	-3.09629	-0.01687667	-0.01495021	-0.01535542	-0.02032437
LEAD	220.353	Axial	464.4415	1.010515	1.012696	1.014405	1.004443
LITHIUM	670.784	Radial	93.65740	0.01891555	0.01724785	0.02058927	0.01890953
MAGNESIUM	279.079	Radial	9082.757	515.5711	515.2614	516.7905	514.6614
MANGANESE	257.610	Axial	24447.43	0.4540857	0.4544312	0.4517725	0.4560533
MOLYBDENUM	202.030	Axial	845.7414	0.4970138	0.4987148	0.4970147	0.4953118
NICKEL	231.604	Axial	1466.200	1.050570	1.057462	1.048430	1.045819
PHOSPHORUS	177.495	Axial	-0.08298363	0.003918251	0.006802499	-0.009171257	0.01412351
POTASSIUM	766.490	Radial	-45.4981	-0.001285594	-0.04113487	-0.01802836	0.05530645
SELENIUM	196.090	Axial	69.27985	0.4639678	0.4734730	0.4549104	0.4635202
SILICON	251.611	Axial	2766.119	0.9353529	0.9337614	0.9314312	0.9408659
SILVER	328.068	Axial	12088.61	0.8411408	0.8410179	0.8373800	0.8450246
SODIUM	589.592	Radial	124.8930	0.1933759	0.1759891	0.1981232	0.2060153
STRONTIUM	421.552	Radial	148.4683	0.006717094	0.006888147	0.006577897	0.006685238
SULFUR	182.034	Axial	5.842927	0.07657303	0.09458246	0.05004601	0.08509063
THALLIUM	190.856	Axial	82.46416	0.4839214	0.4878896	0.4871022	0.4767725
TIN	189.989	Axial	182.9147	0.4604828	0.4645021	0.4590584	0.4578878
TITANIUM	334.941	Radial	358.8095	0.5278746	0.5248744	0.5328933	0.5258559
VANADIUM	292.402	Radial	72.98652	0.4813070	0.4798196	0.4804496	0.4836517
ZINC	206.200	Axial	3899.203	1.026594	1.031007	1.026344	1.022432

200.7 WW Metals Prep Benchsheet

Workgroup: WG2468629

Prep Start Date/Time: 03/13/25 17:02 **Analyst:** DGQ4245 **Analyst Verified pH:** DGQ4245 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Pipette ID:** F13412601
HotBlock ID: MPO **Thermometer ID#:** 942699 **Thermometer Location:** F6 **Pipette Tip Lot#:** 24440172 **Filter Lot#:** NA **Dig. Start Date/Time:** 03/13/25 19:35:00
pH Lot #: 234722AV **Reflux Cap Lot#:** LV24070610-4299-IM **Prep End Date/Time:** 03/14/25 00:36 **Method:** 200.7 **SOP:** ENV-SOP-MTJL-0208

1:1 HNO3: 25C12740 Amt. Used: 1 mL Exp. Date:08/06/25 **Hydrochloric Acid:** 25C06016 Amt. Used: 0.50 mL Exp. Date:09/06/25
High Spike: 25A31301 Amt. Used: 0.25 mL Exp. Date:07/31/25 **High Spike 2:** 25A31332 Amt. Used: 0.25 mL Exp. Date:07/31/25

Sample Number	ListType	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK		25	25	REAGENT WATER	7	CLW4046	03/14/25 00:37:05
LCS		25	25	REAGENT WATER	7	CLW4046	03/14/25 00:37:05
MS(L1835085-01)		25	25	COLORLESS	<2	CLW4046	03/14/25 00:37:05
MSD(L1835085-01)		25	25	COLORLESS	<2	CLW4046	03/14/25 00:37:05
1. L1835003-01	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:37:05
2. L1835082-01	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:37:05
3. L1835085-01	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:37:05
4. L1835192-01	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:37:05
5. L1835192-03	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:37:05
6. L1835284-01	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:37:05
7. L1835303-01	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:37:05
8. L1835632-01	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:37:05
9. L1835633-01	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:37:05
10. L1835636-01	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:37:05

Comments:

Reviewed By:CLW4046 on 03/14/25 00:37:05

#	Type	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Hotblock	0.0	03/13/25 19:35:00	94	94	03/14/25 00:05:00	94	94	BLANK, LCS, MS(L1835085-01), MSD(L1835085-01), L1835003-01, L1835082-01, L1835085-01, L1835192-01, L1835192-03, L1835284-01, L1835303-01, L1835632-01, L1835633-01, L1835636-01

200.7 WW Metals Prep Benchsheet

Workgroup: WG2468756

Prep Start Date/Time: 03/13/25 19:02 **Analyst:** DGQ4245 **Analyst Verified pH:** DGQ4245 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Pipette ID:** F13412601
HotBlock ID: MPO **Thermometer ID#:** 942699 **Thermometer Location:** F6 **Pipette Tip Lot#:** 24440172 **Filter Lot#:** NA **Dig. Start Date/Time:** 03/13/25 19:35:00
pH Lot #: 234722AV **Reflux Cap Lot#:** LV24070610-4299-IM **Prep End Date/Time:** 03/14/25 00:35 **Method:** 200.7 **SOP:** ENV-SOP-MTJL-0208

1:1 HNO3: 25C12740 Amt. Used: 1 mL Exp. Date:08/06/25 **Hydrochloric Acid:** 25C06016 Amt. Used: 0.50 mL Exp. Date:09/06/25
High Spike: 25A31301 Amt. Used: 0.25 mL Exp. Date:07/31/25 **High Spike 2:** 25A31332 Amt. Used: 0.25 mL Exp. Date:07/31/25

Sample Number	ListType	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK		25	25	REAGENT WATER	7	CLW4046	03/14/25 00:35:54
LCS		25	25	REAGENT WATER	7	CLW4046	03/14/25 00:35:54
MS(L1835894-01)		25	25	COLORLESS	<2	CLW4046	03/14/25 00:35:54
MSD(L1835894-01)		25	25	COLORLESS	<2	CLW4046	03/14/25 00:35:54
1. L1835192-02	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:35:54
2. L1835824-01	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:35:54
3. L1835894-01	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:35:54
4. L1835894-02	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:35:54
5. L1835894-03	ICP METALS	25	25	COLORLESS	<2	CLW4046	03/14/25 00:35:54

Comments:

Reviewed By:CLW4046 on 03/14/25 00:35:54

#	Type	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Hotblock	0.0	03/13/25 19:35:00	94	94	03/14/25 00:05:05	94	94	BLANK, LCS, MS(L1835894-01), MSD(L1835894-01), L1835192-02, L1835824-01, L1835894-01, L1835894-02, L1835894-03

200.7 WW DISS. Metals Prep Benchsheet

Workgroup: WG2470166

Prep Start Date/Time: 03/18/25 06:55-06:56 **Analyst:** AXP4121 **Analyst Verified pH:** AXP4121 **Vessel ESC Lot ID:** LV24080204-F-5016-IM **Pipette ID:** VU23216
HotBlock ID: MPE **Thermometer ID#:** 919309 **Thermometer Location:** E6 **Pipette Tip Lot#:** 24440174 **Filter Lot#:** 00358007-2
Dig. Start Date/Time: 03/18/25 07:00:40 **pH Lot #:** 10BDH40241 **Reflux Cap Lot#:** LV24061004-4323 **Syringe Lot#:** 4274716 **Method:** 200.7
Prep End Date/Time: 03/18/25 13:38 **SOP:** ENV-SOP-MTJL-0208

1:1 HNO3: 25C12740 Amt. Used: 1 mL Exp. Date:08/06/25 **Hydrochloric Acid:** 25C11505 Amt. Used: 0.50 mL Exp. Date:09/11/25
High Spike: 25C05705 Amt. Used: 0.25 mL Exp. Date:09/05/25 **High Spike 2:** 25C05706 Amt. Used: 0.25 mL Exp. Date:09/05/25

Sample Number	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK	25	25	Reagent Water	7	AXP4121	03/18/25 13:39:15
LCS	25	25	Reagent Water	7	AXP4121	03/18/25 13:39:15
MS(L1835142-02)	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15
MSD(L1835142-02)	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15
1. L1835142-02	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15
2. L1835142-04	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15
3. L1835142-07	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15
4. L1835192-01	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15
5. L1835192-02	25	25	Colorless	<2	AXP4121	03/18/25 13:39:15

Comments:
Peer Reviewed -BAR4050

Reviewed By:AXP4121 on 03/18/25 13:39:15

#	Type	Correction	Time In	Obs. Temp In (°C)	Corrected Temp In (°C)	Time Out	Obs. Temp Out (°C)	Corrected Temp Out (°C)	Samples
1	Hotblock	0.0	03/18/25 07:00:05	95	95	03/18/25 11:30:10	95	95	BLANK, LCS, MS(L1835142-02), MSD(L1835142-02), L1835142-02, L1835142-04, L1835142-07, L1835192-01, L1835192-02

218.6 Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SW

Lab Sample ID:	L1835192-01	**SDG:**	L1835192
Client Sample ID:	MONTROSE-LAKE-I-SW	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	39.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 04:25
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 04:25
Dilution Factor:	1	**Prep Method:**	218.6
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835192-02	**SDG:**	L1835192
Client Sample ID:	DEEPWATER-I-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	40.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 04:36
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 04:36
Dilution Factor:	1	**Prep Method:**	218.6
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835192-03	**SDG:**	L1835192
Client Sample ID:	TRUMAN-I-SW	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	42.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 04:58
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 04:58
Dilution Factor:	1	**Prep Method:**	218.6
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-1	**SDG:**	L1835192
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	13.0000.txt	**Received Date/Time:**	
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/12/25 23:08
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/12/25 23:08
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-5	**SDG:**	L1835192
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 12:18
Lab File ID:	28.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 02:25
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 02:25
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-7	**SDG:**	L1835192
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	41.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 04:47
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 04:47
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	U		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-2	**SDG:**	L1835192
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	14.0000.txt	**Received Date/Time:**	
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/12/25 23:19
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/12/25 23:19
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	1.99	J	0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-3	**SDG:**	L1835192
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 08:00
Lab File ID:	16.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 00:15
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 00:15
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	47.8		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-6	**SDG:**	L1835192
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	38.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 04:14
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 04:14
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	47.2		0.100	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4185789-4	**SDG:**	L1835192
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 08:00
Lab File ID:	17.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	METALSIC28	**Preparation Date/Time:**	03/13/25 00:25
Analytical Batch:	WG2467459	**Analysis Date/Time:**	03/13/25 00:25
Dilution Factor:	1	**Prep Method:**	3500Cr C-2011
Analytical Method:	218.6	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Hexavalent Chromium	18540-29-9	47.9		0.100	5.00

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W
Concentration Units:	mg/l		

		ICV				CCV				CCV			
Sample ID:		METALSIC280312251501-2				METALSIC280313250131-2				METALSIC280313250341-2			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
HEXAVALENT CHROMIUM	0.05	0.0497983	99.60		0.05	0.0490455	98.10		0.05	0.0486689	97.30	

ICV Limits: 95 - 105 CCV Limits: 95 - 105

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W
Concentration Units:	mg/l		

CCV

Sample ID: METALSIC280313250509-2

Analyte	True	Found	%R	%RSD
HEXAVALENT CHROMIUM	0.05	0.0488157	97.60	

ICV Limits: 95 - 105 CCV Limits: 95 - 105

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/16/25 15:45
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/16/25 17:02
Analytical Method:	218.6	**Analytical Run:**	031825 LL
Concentration Units:	mg/l		

		ICV				**CCV**		
Sample ID:		METALSIC280318251735				METALSIC280318251949		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
HEXAVALENT CHROMIUM-LOW LEVEL	0.05	0.0493379	98.70		0.05	0.0485359	97.10	

ICV Limits: 95 - 105 CCV Limits: 95 - 105

SDG:	L1835192	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Sample ID:	**ICB Result**	**ICB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	10.0000.txt-2		13.0000.txt		24.0000.txt-2		36.0000.txt-2	
Analyte	ppb		mg/l		ppb		ppb	
HEXAVALENT CHROMIUM	0.0000		U		0.0000		0.0000	

SDG:	L1835192	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	44.0000.txt-2	
Analyte	ppb	
HEXAVALENT CHROMIUM	0.0000	

SDG:	L1835192	**Calibration (begin) date/time:**	03/16/25 15:45
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/16/25 17:02
Analytical Method:	218.6	**Analytical Run:**	031625 LL

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	10.0000.txt	
Analyte	ppb	
HEXAVALENT CHROMIUM-LOW LEVEL	0.0000	

SDG:	L1835192	**Calibration (begin) date/time:**	03/16/25 15:45
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/16/25 17:02
Analytical Method:	218.6	**Analytical Run:**	031725 LL

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	10.0000.txt-3	

Analyte	ppb
HEXAVALENT CHROMIUM-LOW LEVEL	0.0000

SDG:	L1835192	**Calibration (begin) date/time:**	03/16/25 15:45
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/16/25 17:02
Analytical Method:	218.6	**Analytical Run:**	031725_2 LL

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	10.0000.txt	
Analyte	ppb	
HEXAVALENT CHROMIUM-LOW LEVEL	0.0000	

SDG:	L1835192	**Calibration (begin) date/time:**	03/16/25 15:45
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/16/25 17:02
Analytical Method:	218.6	**Analytical Run:**	031825 LL

Sample ID:	**ICB Result**	**ICB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	10.0000.txt		13.0000.txt		21.0000.txt	
Analyte	ppb		mg/l		ppb	
HEXAVALENT CHROMIUM-LOW LEVEL	0.0000		U		0.0000	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835192-01,02,03

SAMPLE NO.:
R4185789-3
R4185789-4

MS Sample / File ID:	R4185789-3 / 16.0000.txt	**SDG:**	L1835192
MSD Sample / File ID:	R4185789-4 / 17.0000.txt	**Analytical Batch:**	WG2467459
OS Sample / File ID:	L1834905-01 / 15.0000.txt	**Matrix:**	WW
Instrument ID:	METALSIC28		
Analytical Method:	218.6		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	50.0	U	47.8	47.9	95.6	95.7	1	90.0 - 110	0.167	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835192-01,02,03

SAMPLE NO.: R4185789-6

MS Sample / File ID:	R4185789-6 / 38.0000.txt	**SDG:**	L1835192
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2467459
OS Sample / File ID:	L1835142-07 / 37.0000.txt	**Matrix:**	WW
Instrument ID:	METALSIC28		
Analytical Method:	218.6		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*		*%*	*%*		*%*	*%*	*%*
Hexavalent Chromium	50.0	U	47.2		94.5		1	90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4185789-5 / 28.0000.txt	**SDG:**	L1835192
OS Sample / File ID:	L1834999-01 / 27.0000.txt	**Analytical Batch:**	WG2467459
Instrument ID:	METALSIC28	**Dilution Factor:**	1
Analytical Method:	218.6	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	ug/l	*ug/l*	*%*	*%*
Hexavalent Chromium	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4185789-7 / 41.0000.txt	**SDG:**	L1835192
OS Sample / File ID:	L1835192-02 / 40.0000.txt	**Analytical Batch:**	WG2467459
Instrument ID:	METALSIC28	**Dilution Factor:**	1
Analytical Method:	218.6	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	ug/l	*ug/l*	*%*	*%*
Hexavalent Chromium	U	U	0.000	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1835192-01,02,03

SAMPLE NO.:
R4185789-2

LCS Sample / File ID:	R4185789-2 / 14.0000.txt	**SDG:**	L1835192
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467459
Instrument ID:	METALSIC28	**Dilution Factor:**	1
Analytical Method:	218.6	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Hexavalent Chromium	2.00	1.99		99.4		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835192-01,02,03 **Analytical Method:** 218.6

Matrix: WW **Prep Method:** 218.6

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/l	*mg/l*
Hexavalent Chromium	18540-29-9			0.0001	0.0050

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	218.6
Instrument ID:	METALSIC28	**Calibration Start Date:**	03/12/25 13:34
Analytical Run:	031225 W	**Calibration End Date:**	03/12/25 14:50

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	CAL 1	01.0000.TXT	03/12/25 13:34		
CAL	CAL 8	02.0000.TXT	03/12/25 13:45		
CAL	CAL 2	03.0000.TXT	03/12/25 13:55		
CAL	CAL 3	04.0000.TXT	03/12/25 14:06		
CAL	CAL 4	05.0000.TXT	03/12/25 14:17		
CAL	CAL 5	06.0000.TXT	03/12/25 14:28		
CAL	CAL 6	07.0000.TXT	03/12/25 14:39		
CAL	CAL 7	08.0000.TXT	03/12/25 14:50		
ICV	METALSIC280312251501-2	09.0000.txt-2	03/12/25 15:01		
ICB	METALSIC280312251512-2	10.0000.txt-2	03/12/25 15:12		
RL	METALSIC280312252236-2	11.0000.txt-2	03/12/25 22:36		
BLANK	R4185789-1	13.0000.txt	03/12/25 23:08	1	WG2467459
LCS	R4185789-2	14.0000.txt	03/12/25 23:19	1	WG2467459
OS	L1834905-01	15.0000.txt	03/13/25 00:04		
MS	R4185789-3	16.0000.txt	03/13/25 00:15	1	WG2467459
MSD	R4185789-4	17.0000.txt	03/13/25 00:25	1	WG2467459
CCV	METALSIC280313250131-2	23.0000.txt-2	03/13/25 01:31		
CCB	METALSIC280313250142-2	24.0000.txt-2	03/13/25 01:42		
OS	L1834999-01	27.0000.txt	03/13/25 02:14		
DUP	R4185789-5	28.0000.txt	03/13/25 02:25	1	WG2467459
L1835142-01	L1835142-01	29.0000.txt	03/13/25 02:36	1	WG2467459
L1835142-02	L1835142-02	30.0000.txt	03/13/25 02:47	1	WG2467459
L1835142-03	L1835142-03	31.0000.txt	03/13/25 02:58	1	WG2467459
L1835142-04	L1835142-04	32.0000.txt	03/13/25 03:09	1	WG2467459
L1835142-05	L1835142-05	33.0000.txt	03/13/25 03:20	1	WG2467459
L1835142-06	L1835142-06	34.0000.txt	03/13/25 03:30	1	WG2467459
CCV	METALSIC280313250341-2	35.0000.txt-2	03/13/25 03:41		
CCB	METALSIC280313250352-2	36.0000.txt-2	03/13/25 03:52		
OS	L1835142-07	37.0000.txt	03/13/25 04:03		
L1835142-07	L1835142-07	37.0000.txt	03/13/25 04:03	1	WG2467459
MS	R4185789-6	38.0000.txt	03/13/25 04:14	1	WG2467459
MONTROSE-LAKE-I-SW	L1835192-01	39.0000.txt	03/13/25 04:25	1	WG2467459
DEEPWATER-I-SW	L1835192-02	40.0000.txt	03/13/25 04:36	1	WG2467459
DUP	R4185789-7	41.0000.txt	03/13/25 04:47	1	WG2467459
TRUMAN-I-SW	L1835192-03	42.0000.txt	03/13/25 04:58	1	WG2467459
CCV	METALSIC280313250509-2	43.0000.txt-2	03/13/25 05:09		
CCB	METALSIC280313250519-2	44.0000.txt-2	03/13/25 05:19		

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	218.6
Instrument ID:	METALSIC28	**Calibration Start Date:**	
Analytical Run:	031625 LL	**Calibration End Date:**	

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICB	METALSIC280316251723	10.0000.txt	03/16/25 17:23		

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	218.6
Instrument ID:	METALSIC28	**Calibration Start Date:**	
Analytical Run:	031725 LL	**Calibration End Date:**	

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICB	METALSIC280317250955-3	10.0000.txt-3	03/17/25 09:55		

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	218.6
Instrument ID:	METALSIC28	**Calibration Start Date:**	_____
Analytical Run:	031725_2 LL	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICB	METALSIC280317250955	10.0000.txt	03/17/25 09:55		

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	218.6
Instrument ID:	METALSIC28	**Calibration Start Date:**	03/16/25 15:45
Analytical Run:	031825 LL	**Calibration End Date:**	03/16/25 17:02

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	METALSIC280318251735	09.0000.txt	03/18/25 17:35		
ICB	METALSIC280318251746	10.0000.txt	03/18/25 17:46		
RL	METALSIC280318251757	11.0000.txt	03/18/25 17:57		
BLANK	R4187908-1	13.0000.txt	03/18/25 18:32	1	WG2471511
LCS	R4187908-2	14.0000.txt	03/18/25 18:43	1	WG2471511
MONTROSE-LAKE-I-SW	L1835192-01	15.0000.txt	03/18/25 18:54	1	WG2471511
MS	R4187908-3	16.0000.txt	03/18/25 19:05	1	WG2471511
MSD	R4187908-4	17.0000.txt	03/18/25 19:16	1	WG2471511
DEEPWATER-I-SW	L1835192-02	18.0000.txt	03/18/25 19:27	1	WG2471511
DUP	R4187908-5	19.0000.txt	03/18/25 19:38	1	WG2471511
CCV	METALSIC280318251949	20.0000.txt	03/18/25 19:49		
CCB	METALSIC280318251959	21.0000.txt	03/18/25 19:59		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.0001	.000097	97	0.0005	.0005092	102
File ID:		02.0000.TXT			03.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.0010	.001013	101	0.0050	.0050412	101
File ID:		04.0000.TXT			05.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.01	.0099271	99.30	0.05	.0497884	99.60
File ID:		06.0000.TXT			07.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Analyte	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%
HEXAVALENT CHROMIUM	0.10	.1002241	100
File ID:		08.0000.TXT	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Analytical Method:	218.6	**Analytical Run:**	031225 W

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
HEXAVALENT CHROMIUM	5	1	0.99999			0.229	0.008	2.998

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

17-IN

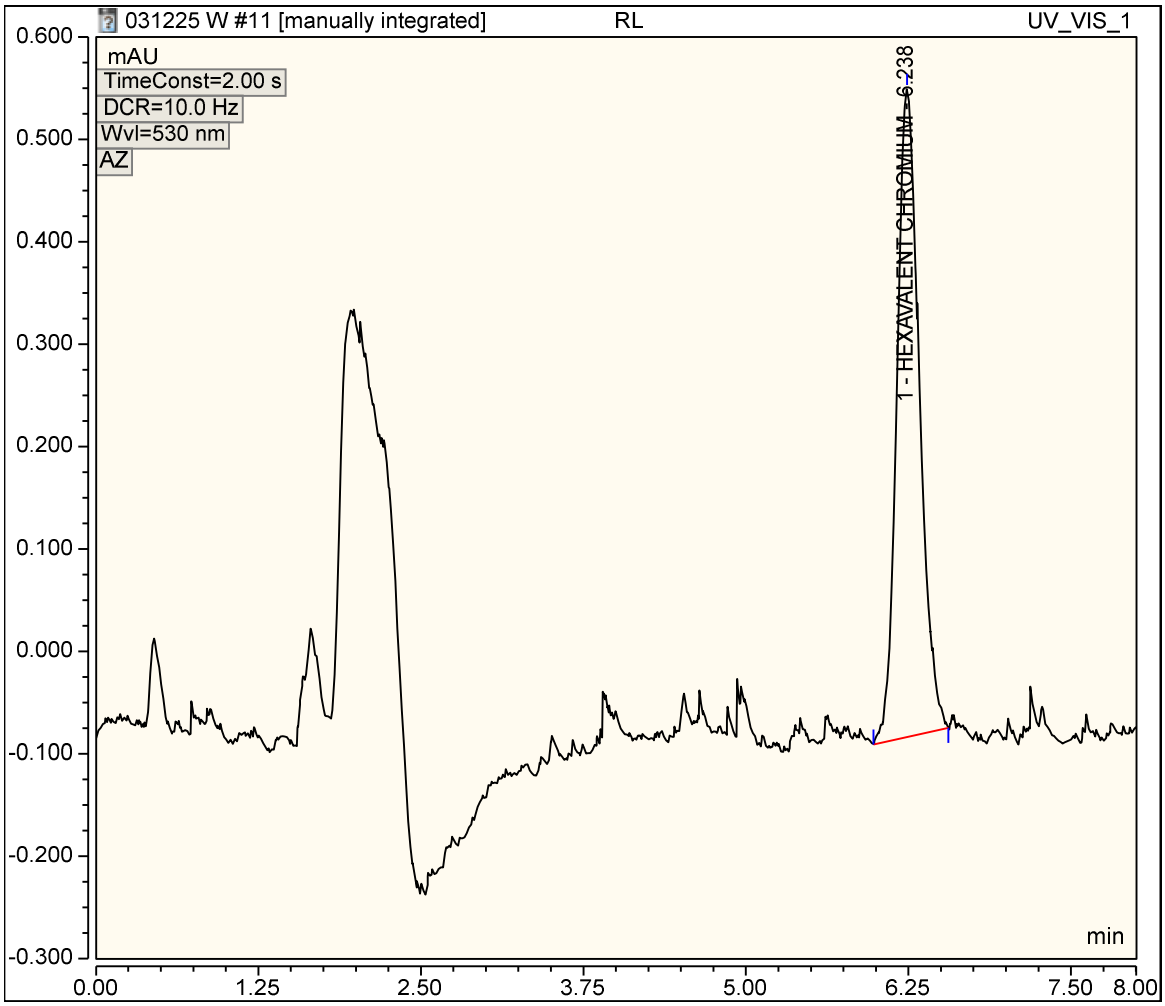
REPORTING LEVEL VERIFICATION
INORGANICS

SDG:	L1835192	**Calibration (begin) date/time:**	03/12/25 13:34
Instrument ID:	METALSIC28	**Calibration (end) date/time:**	03/12/25 14:50
Lab File ID:	11.0000.txt-2	**Analysis date/time:**	03/12/25 22:36
Analytical Method:	218.6	**Sample ID:**	RL

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
HEXAVALENT CHROMIUM	0.0005	0.0005187	104	60 - 140

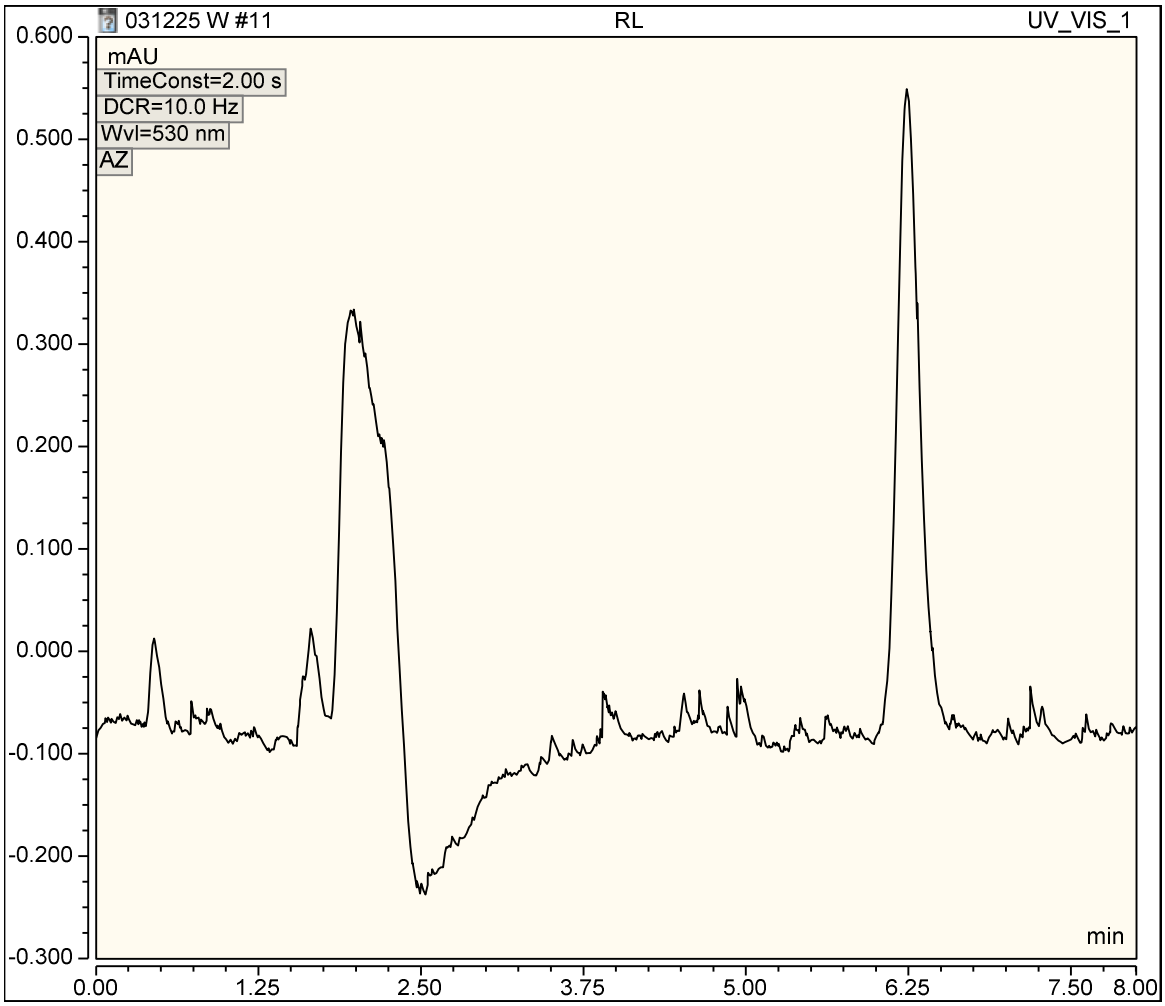
Sample Name:	**RL**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 22:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	HEXAVALENT CHROMIUM	BMB*	0.127	0.633	0.5187
		TOTAL:		0.13	0.63	0.52



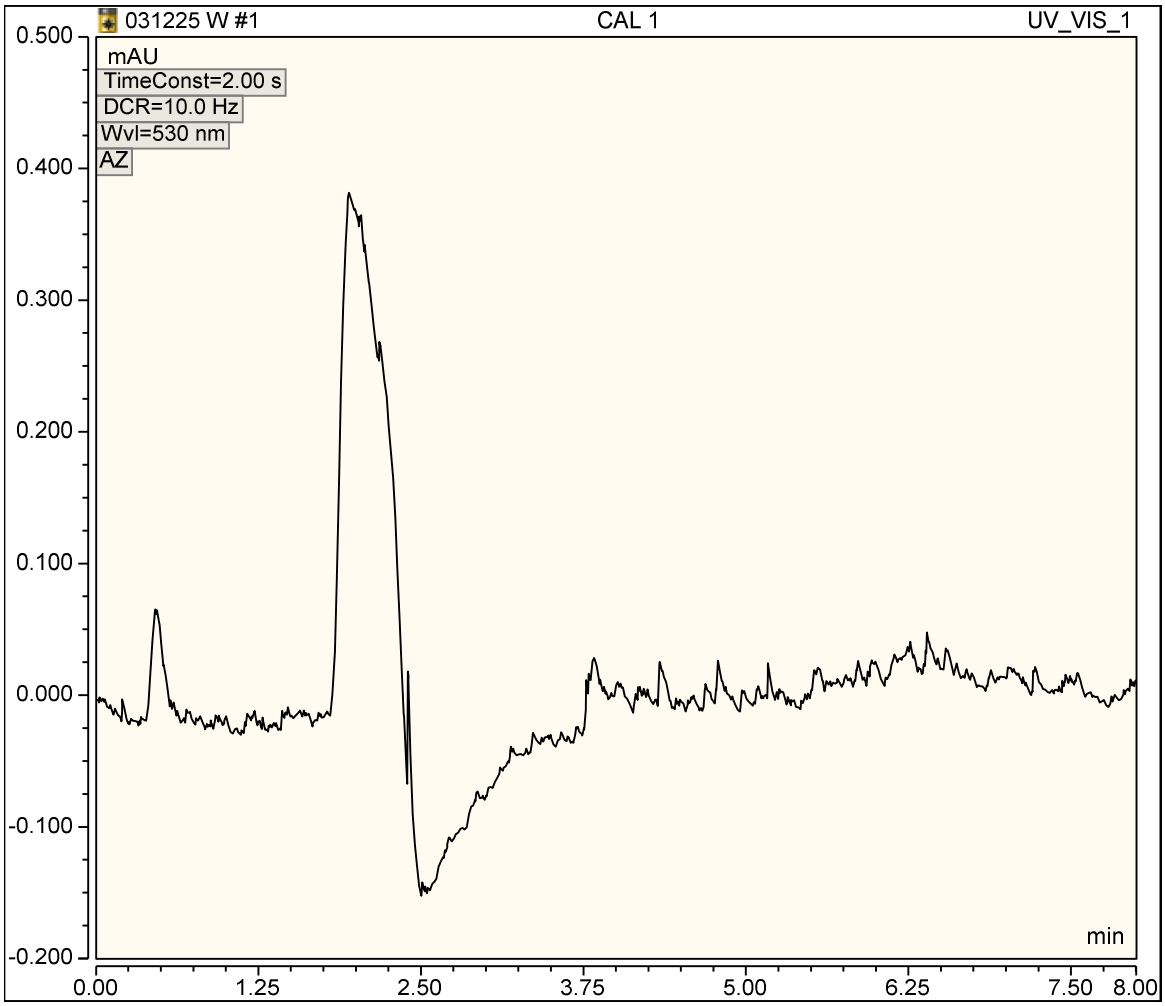
Sample Name:	**RL**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 22:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



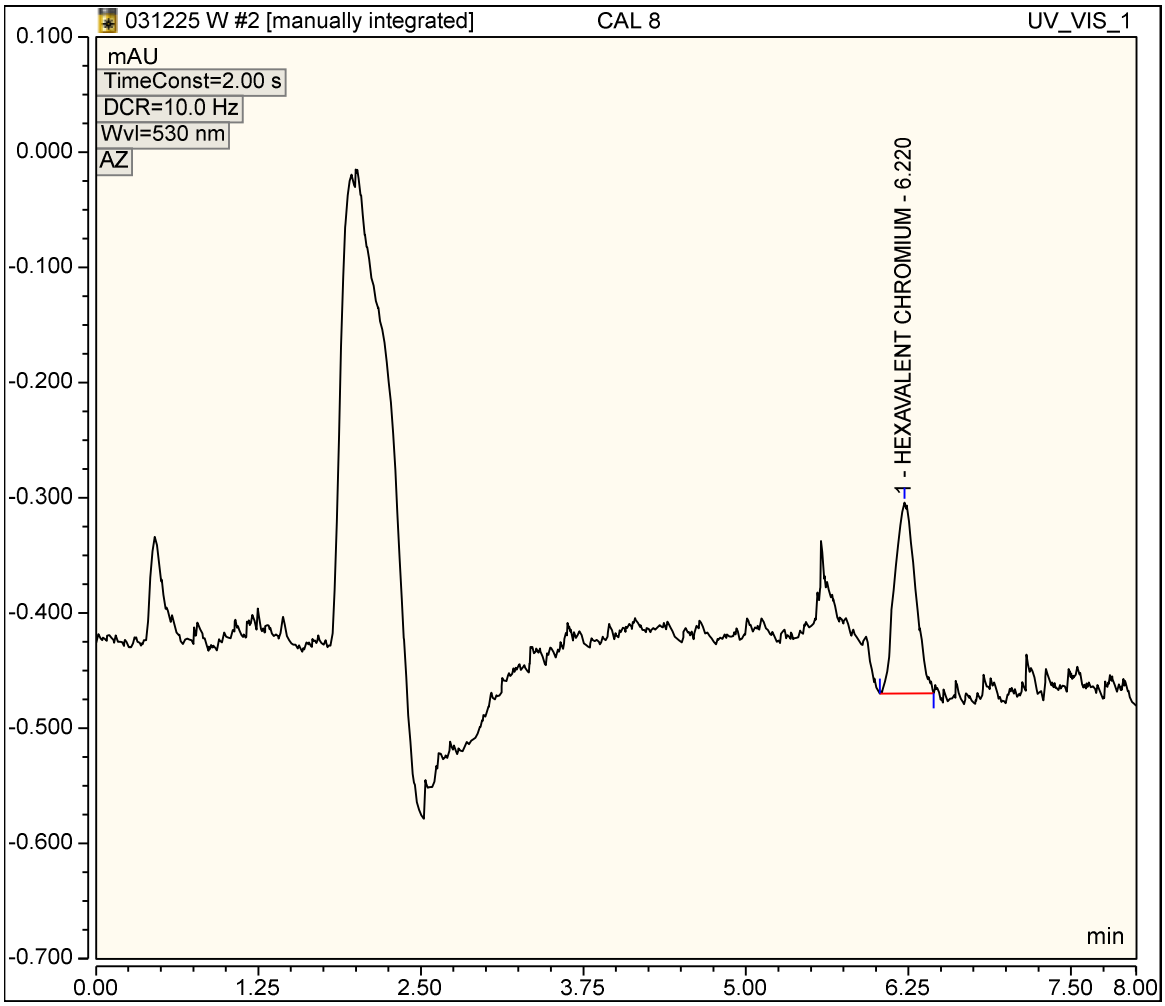
Sample Name:	**CAL 1**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 13:34**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**CAL 8**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 13:45**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.22	HEXAVALENT CHROMIUM	BMB*	0.030	0.166	0.0970
		TOTAL:		0.03	0.17	0.10

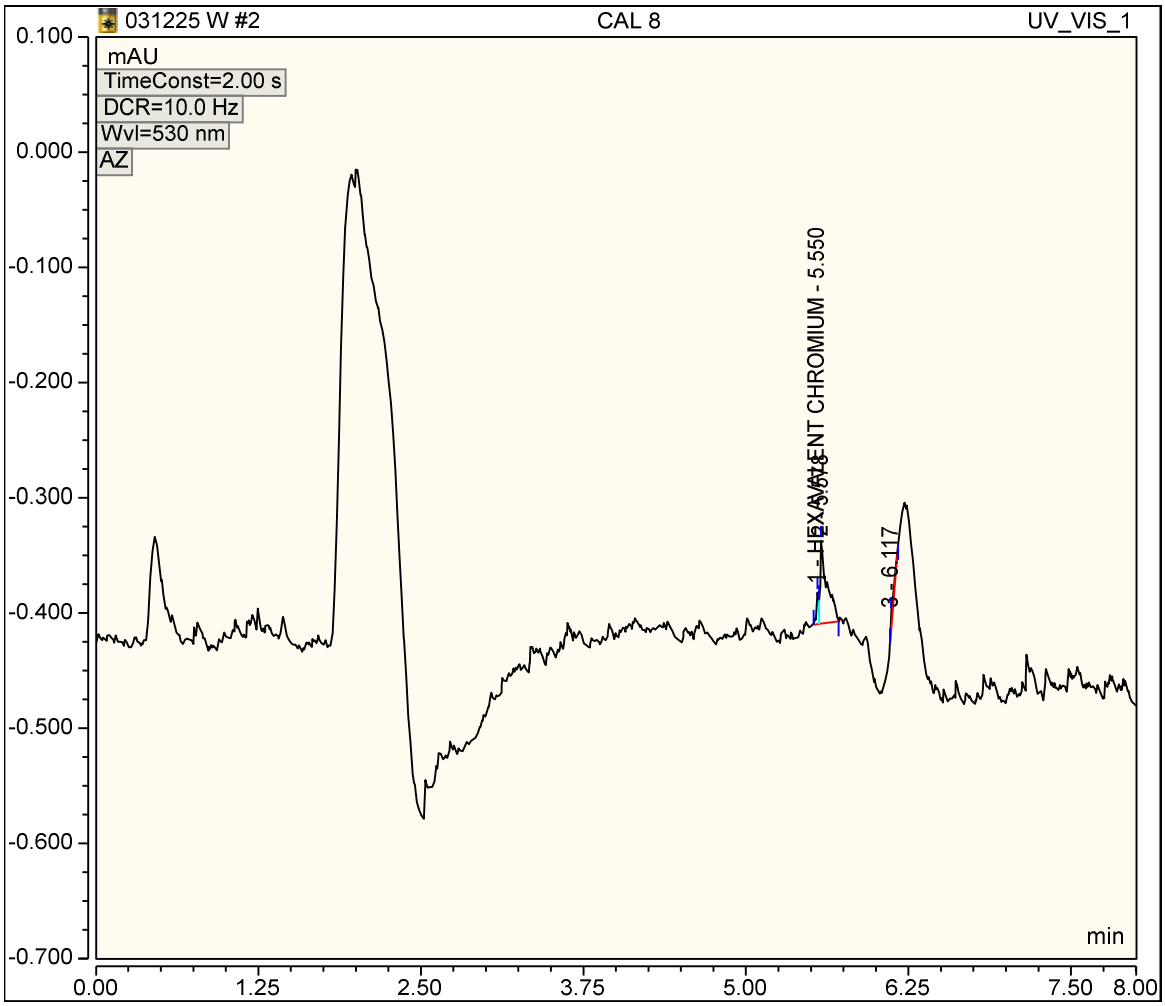


Export for Tree/Integration

PeakNet 6 (r) Dionex 2001
Version 7.3.1.6535

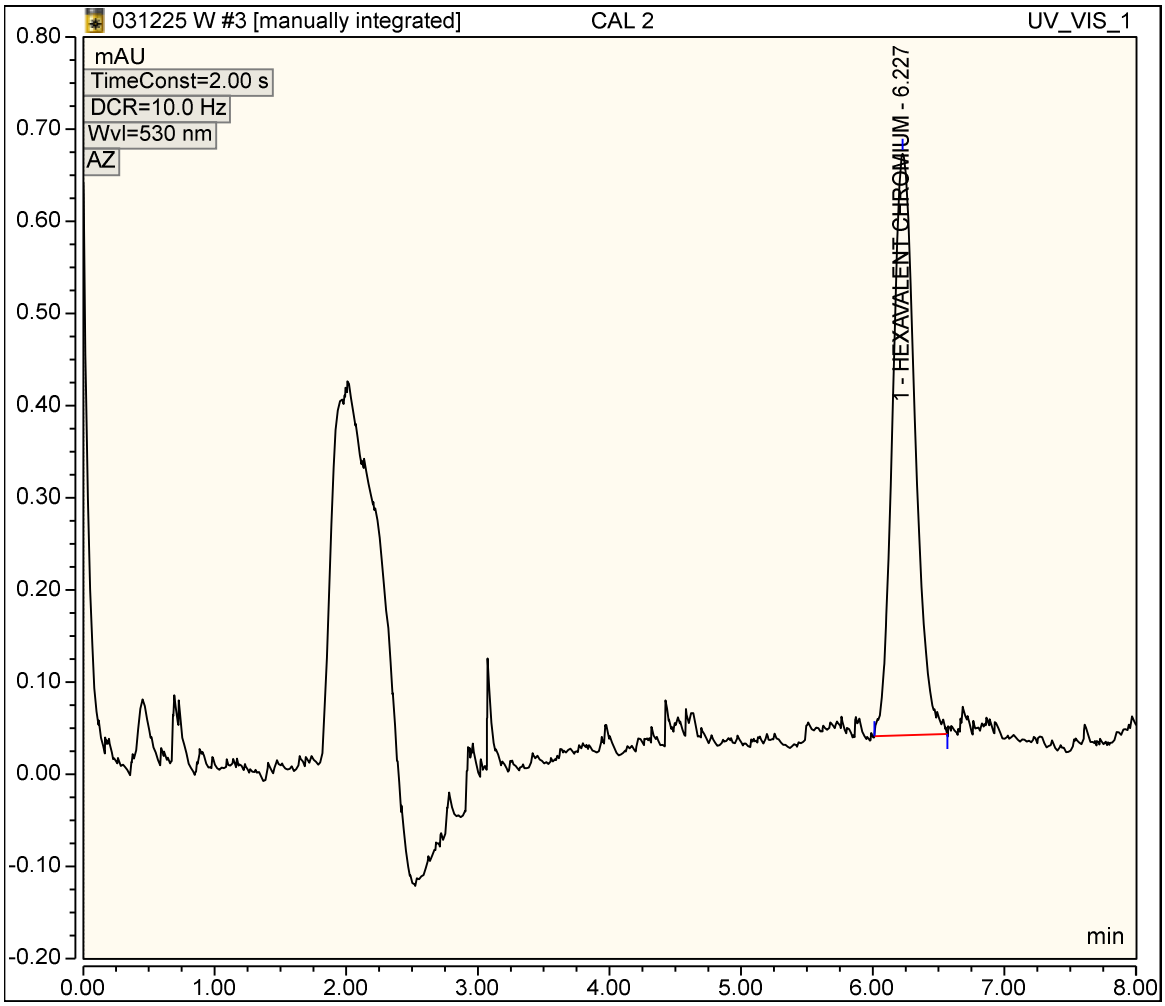
Sample Name:	**CAL 8**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 13:45**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.55	HEXAVALENT CHROMIUM	BM	0.000	0.027	0.1337
		TOTAL:		0.00	0.03	0.13



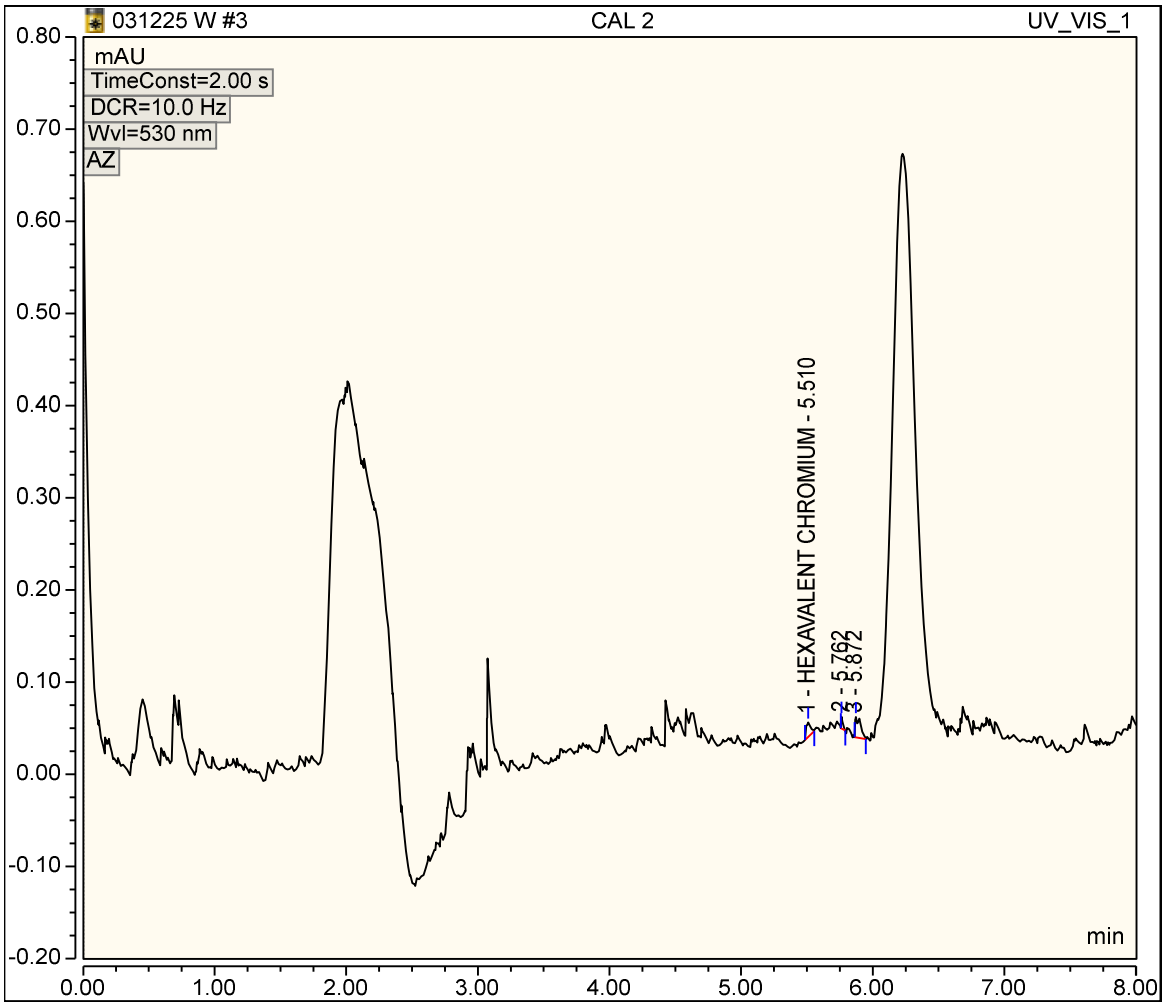
Sample Name:	**CAL 2**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 13:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	0.125	0.631	0.5092
		TOTAL:		0.12	0.63	0.51



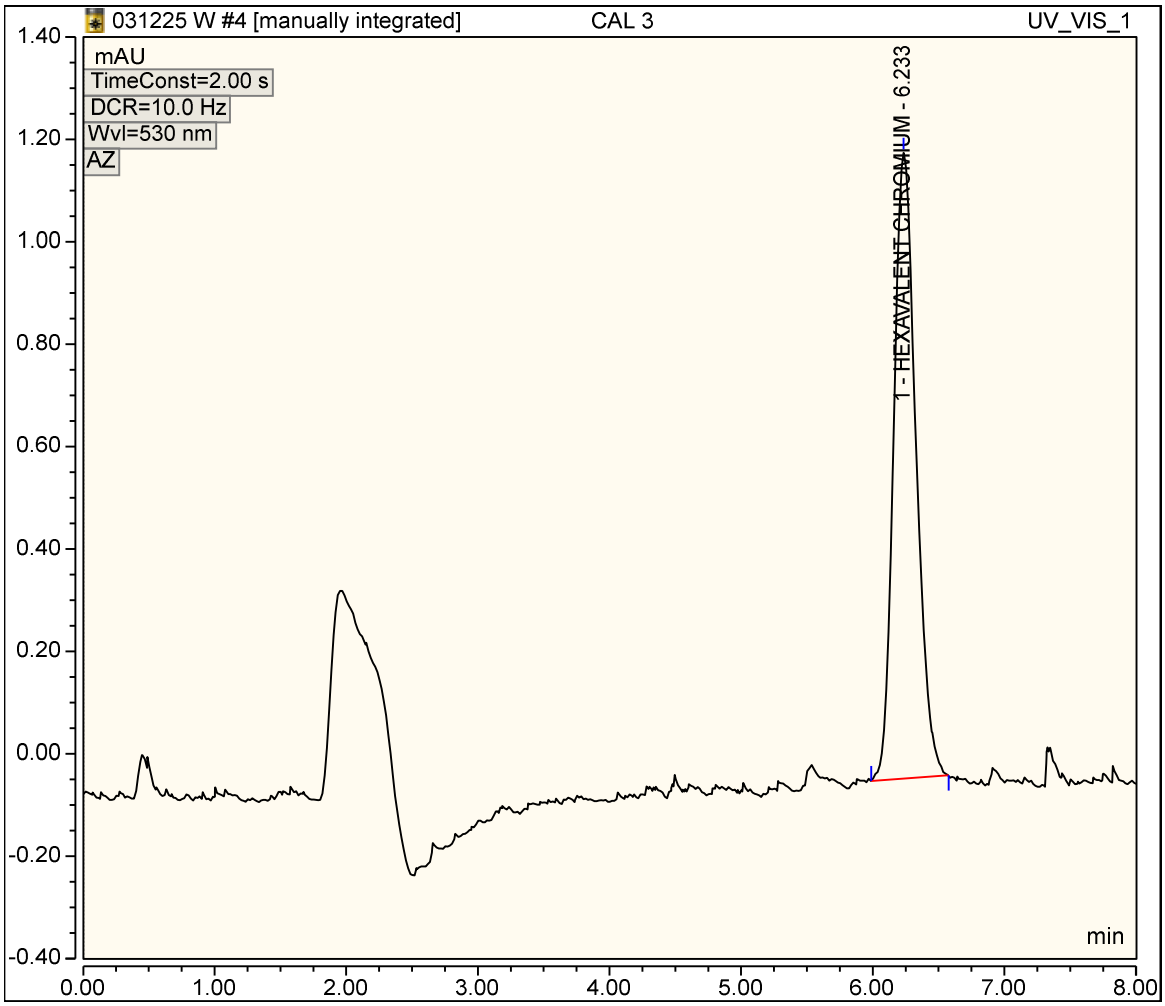
Sample Name:	**CAL 2**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 13:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.51	HEXAVALENT CHROMIUM	BMB	0.001	0.016	0.1970
		TOTAL:		0.00	0.02	0.20



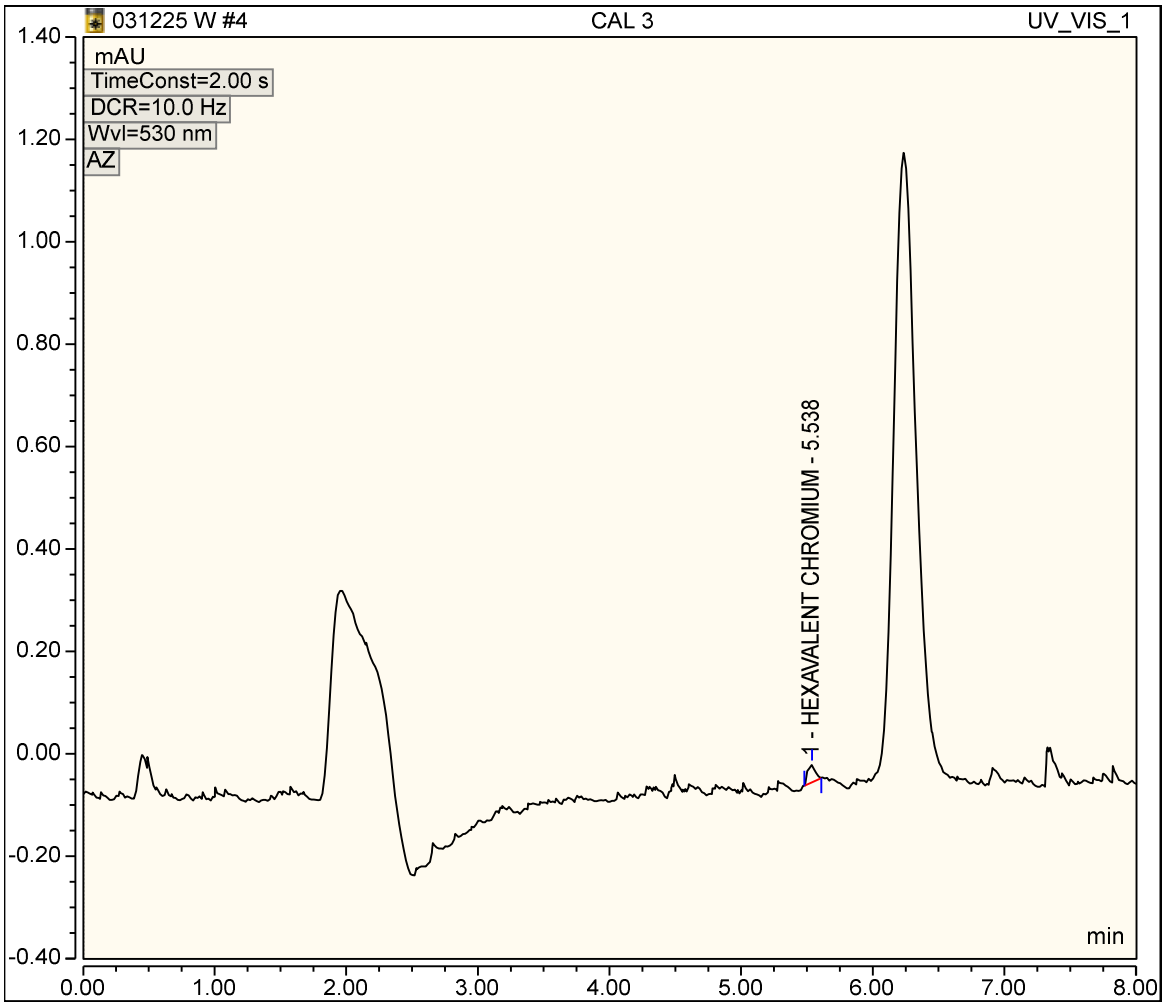
Sample Name:	**CAL 3**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:06**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	0.240	1.222	1.0130
		TOTAL:		0.24	1.22	1.01



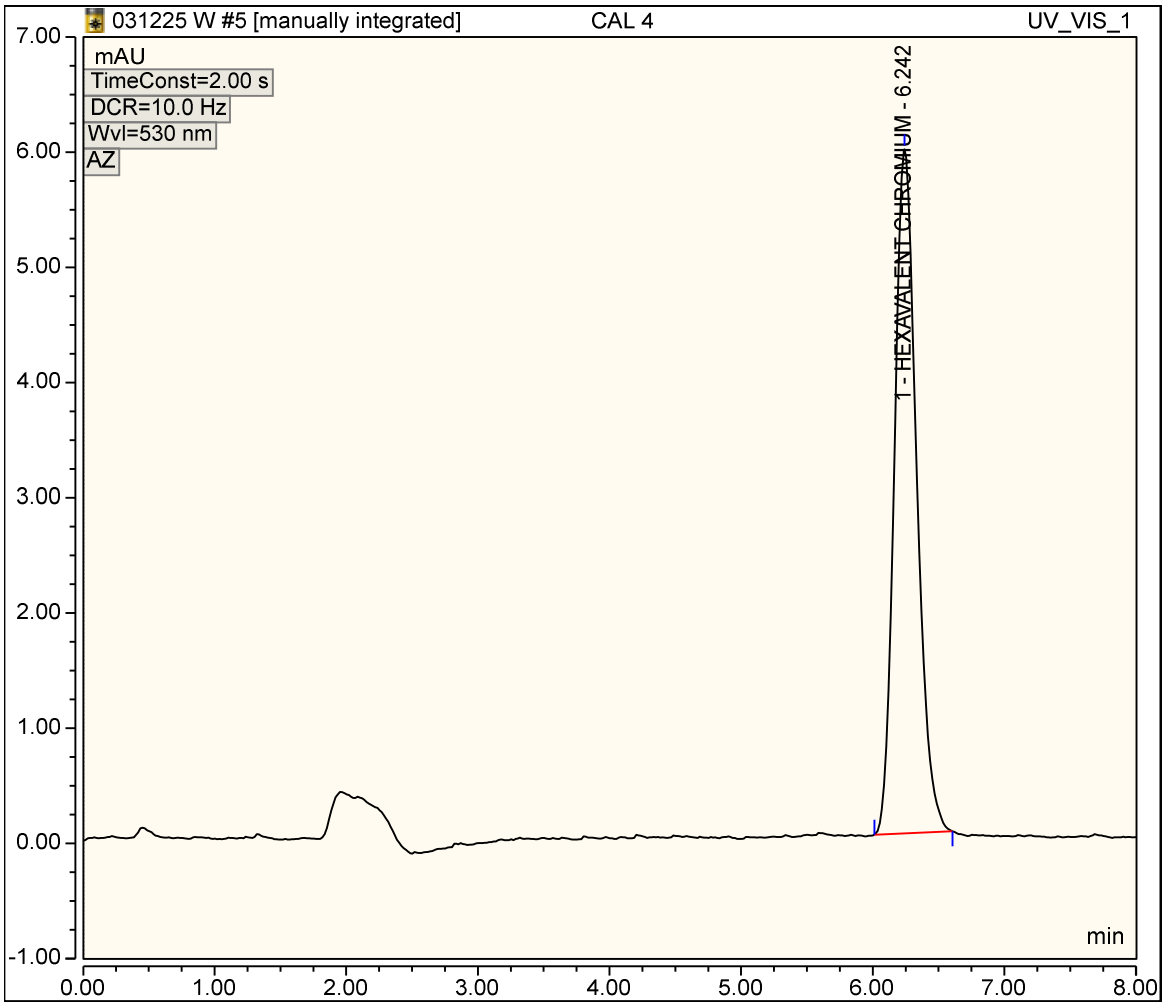
Sample Name:	**CAL 3**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:06**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.54	HEXAVALENT CHROMIUM	BMB	0.002	0.035	1.2693
		TOTAL:		0.00	0.04	1.27



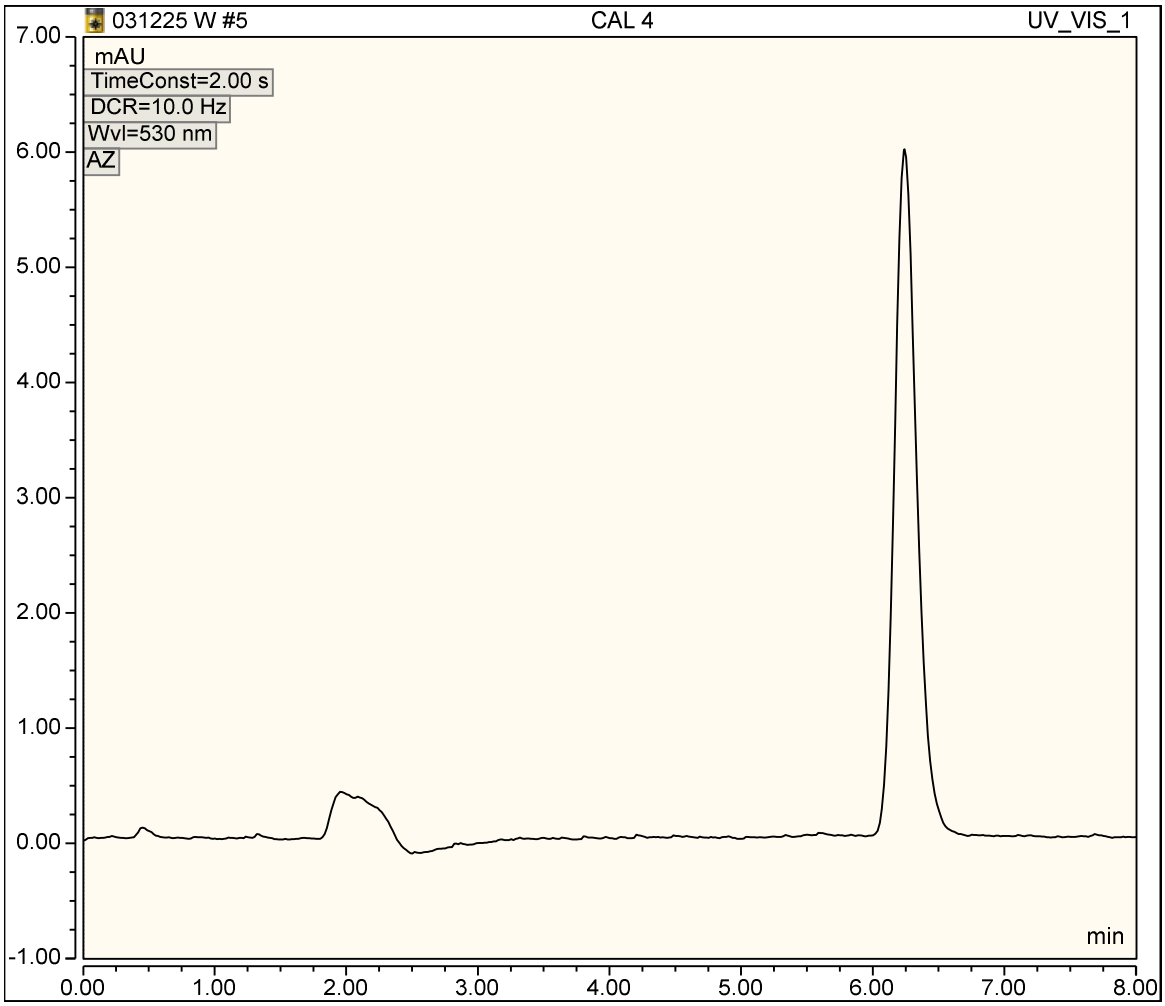
Sample Name:	**CAL 4**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:17**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	HEXAVALENT CHROMIUM	BMB*	1.161	5.937	5.0412
		TOTAL:		1.16	5.94	5.04



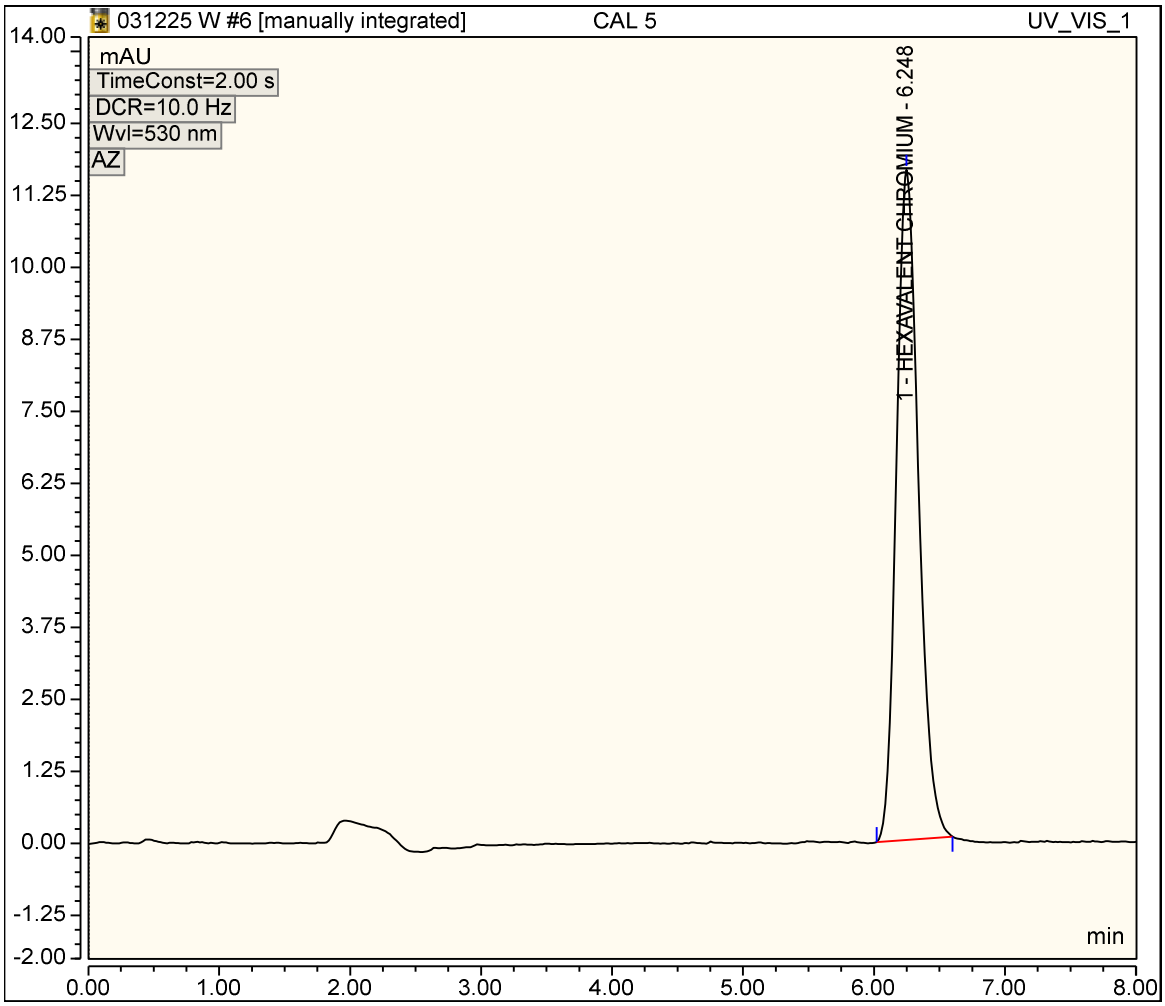
Sample Name:	**CAL 4**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:17**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



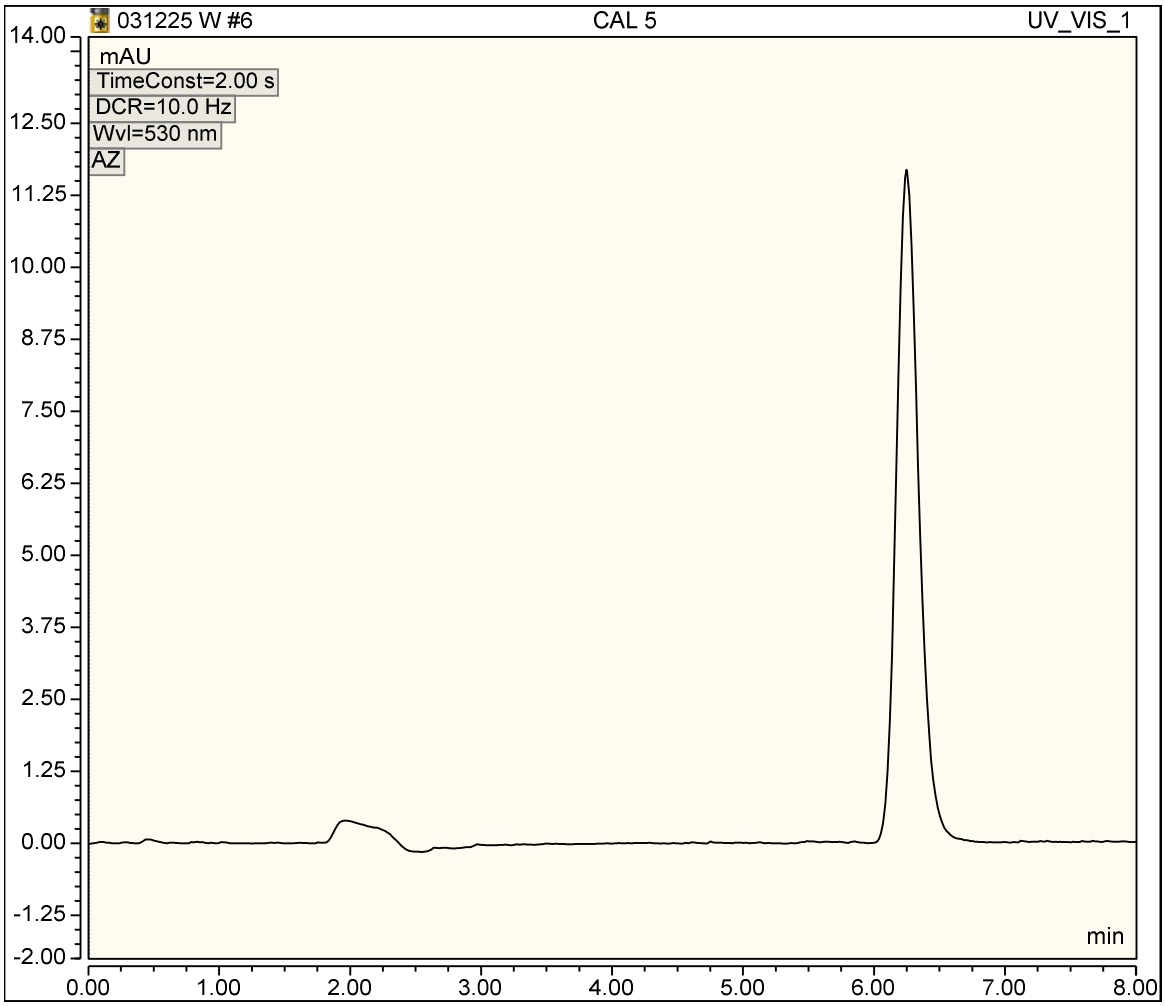
Sample Name:	**CAL 5**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:28**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.25	HEXAVALENT CHROMIUM	BMB*	2.278	11.633	9.9271
		TOTAL:		2.28	11.63	9.93



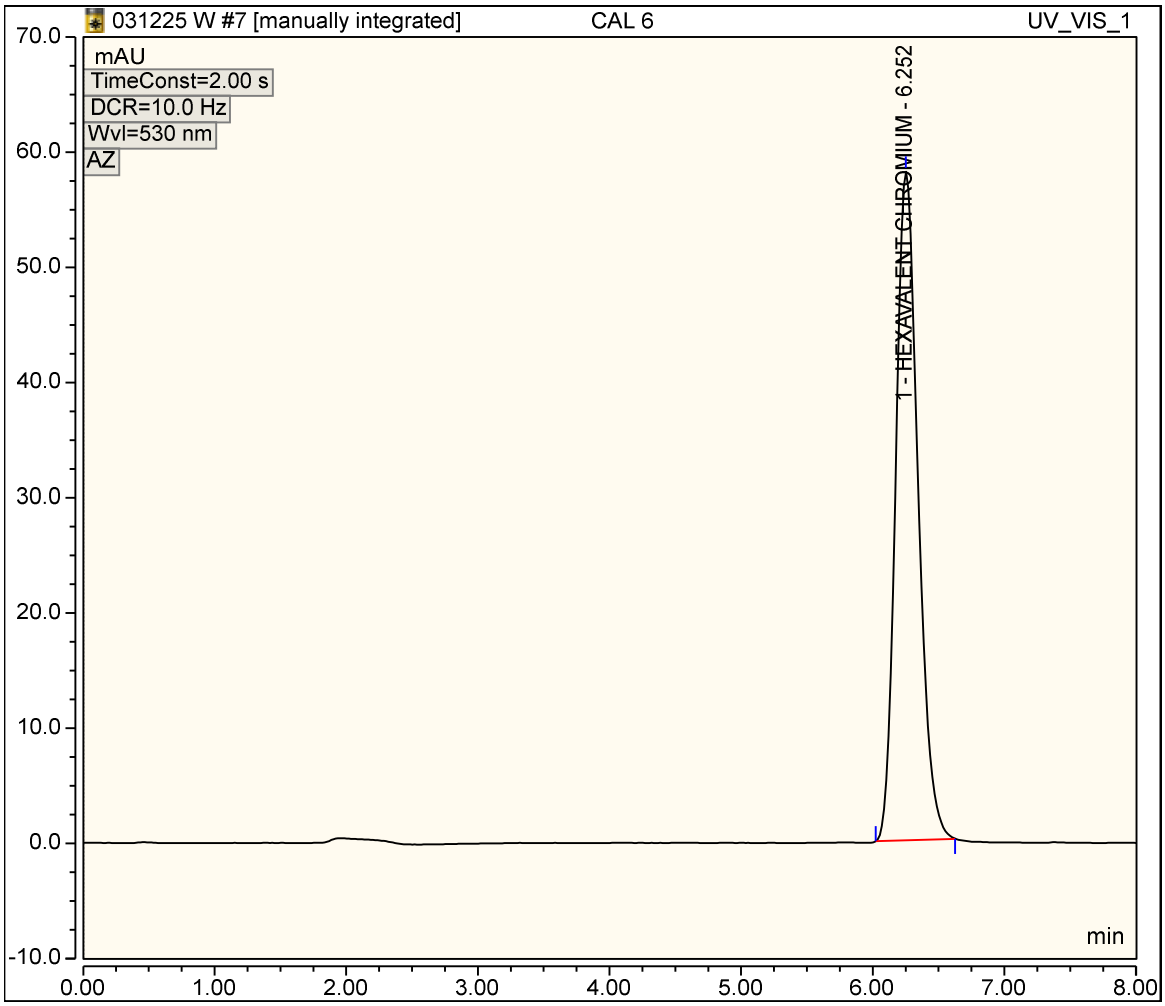
Sample Name:	**CAL 5**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:28**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



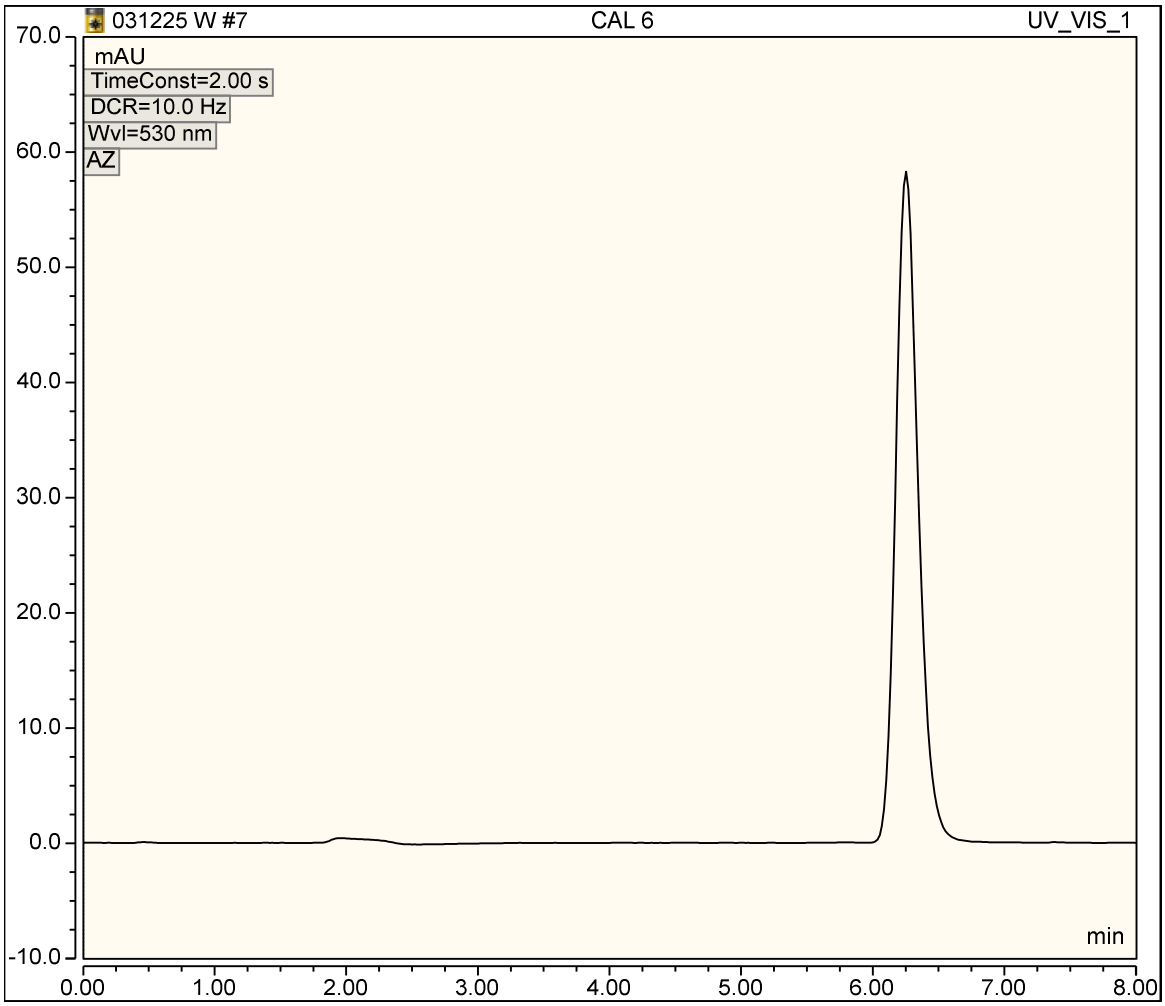
Sample Name:	**CAL 6**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:39**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.25	HEXAVALENT CHROMIUM	BMB*	11.392	58.053	49.7884
		TOTAL:		11.39	58.05	49.79



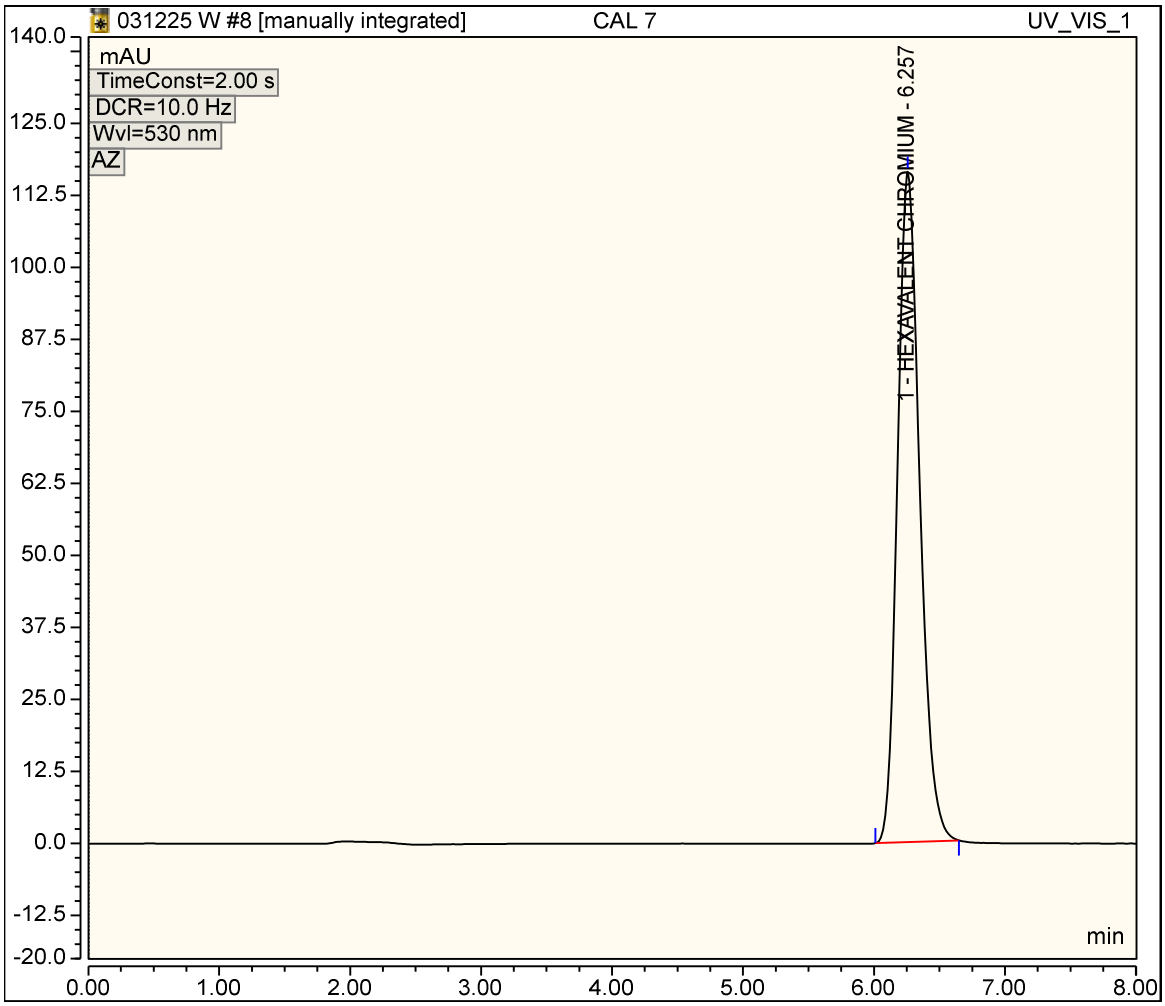
Sample Name:	**CAL 6**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:39**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



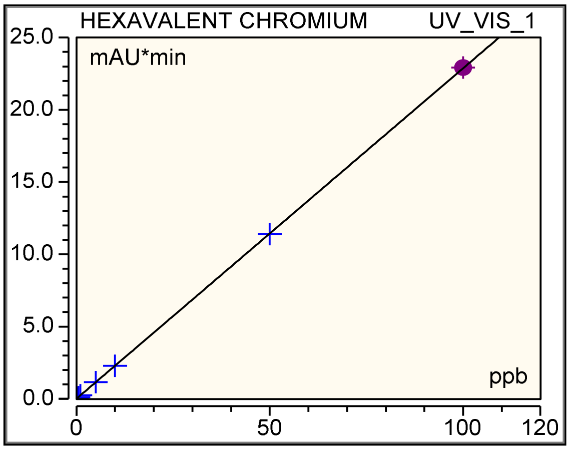
Sample Name:	**CAL 7**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:50**	*Run Time:*	**8.00**

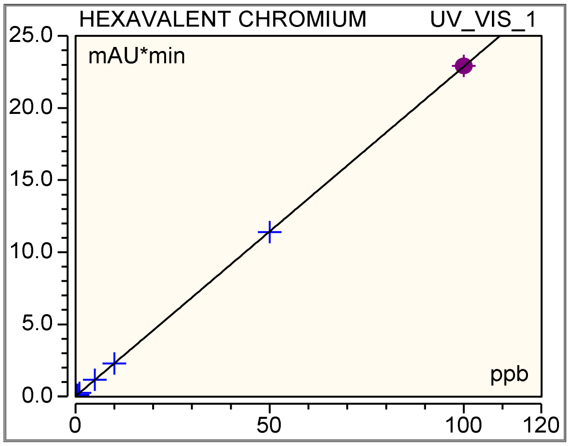
No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.26	HEXAVALENT CHROMIUM	BMB*	22.923	116.352	100.2241
		TOTAL:		22.92	116.35	100.22

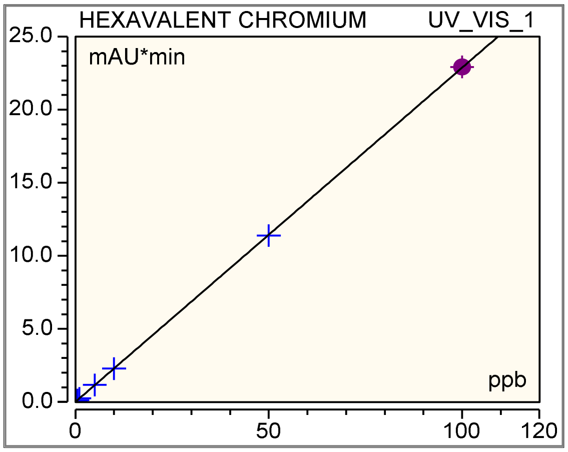


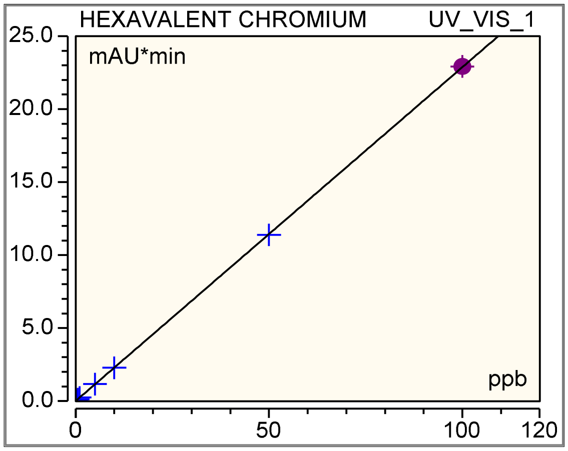
Calibration Batch Report

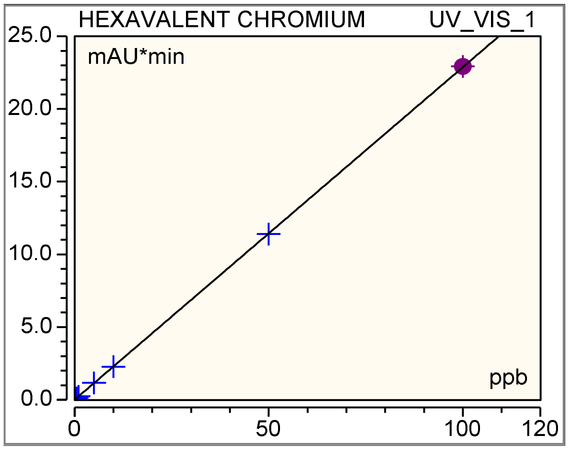
Sequence:	**031225 W**	Inj. Vol.:	**500.0**
Program:	**HEXAVALENT CHROMIUM_no CD2**	Operator:	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:50**	Run Time:	**8.00**

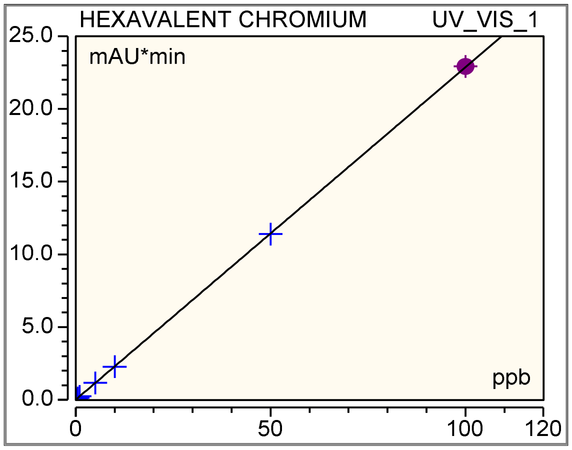




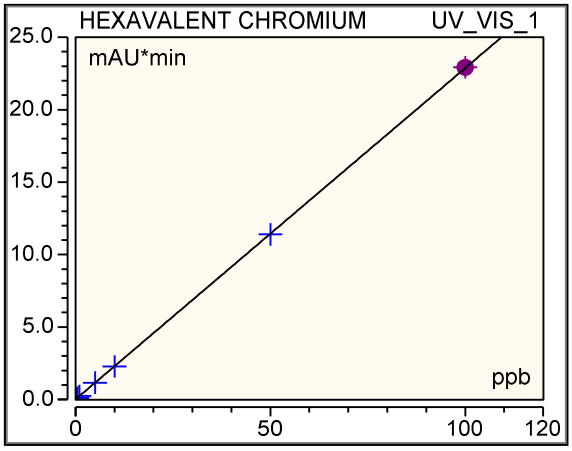








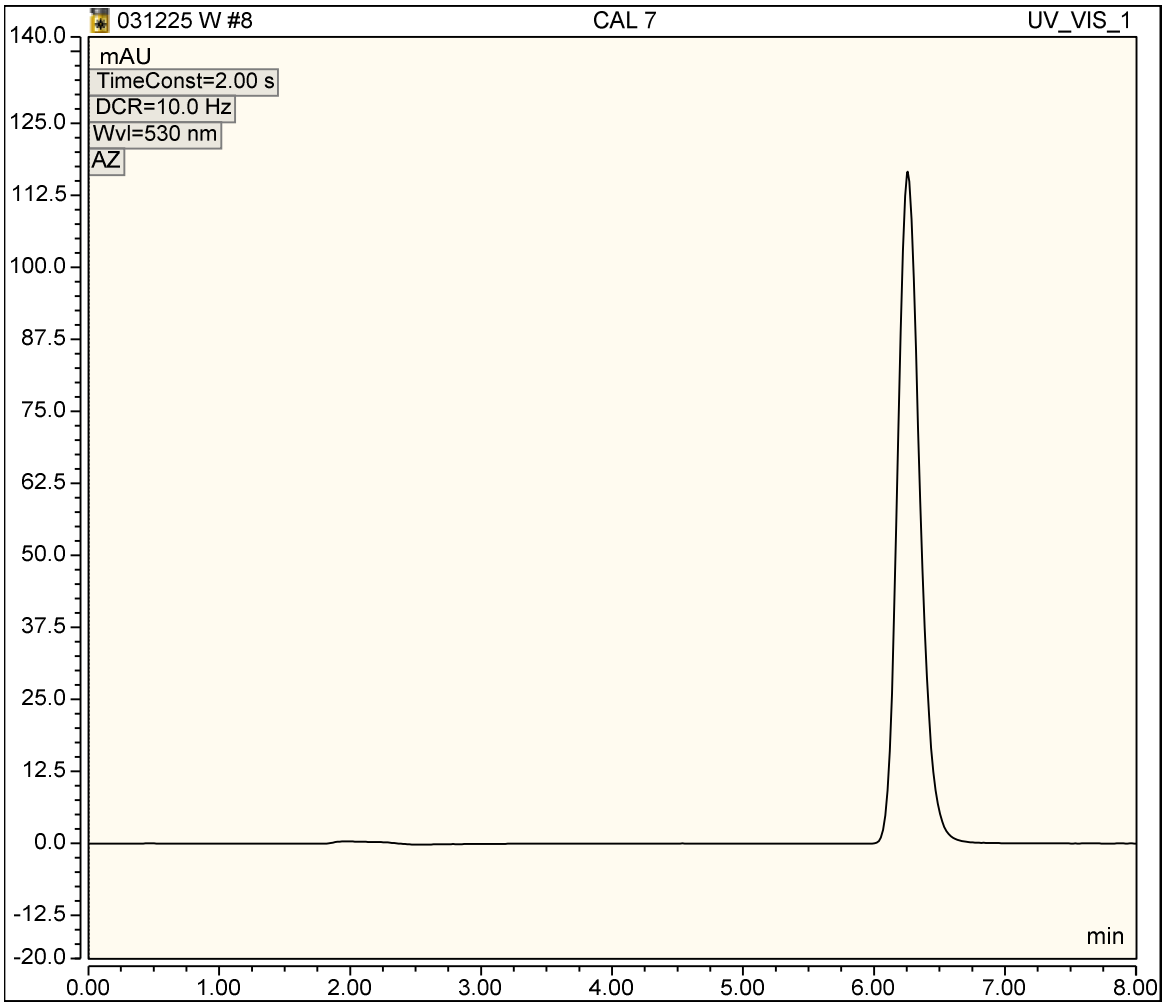
Sequence:	**031225 W**	*Inj. Vol.:*	**500.0**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/12/25 14:50**	*Run Time:*	**8.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	6.26	HEXAVALENT C	, WithOffset, 1	7	0.008	0.229	0.000	99.999
		AVERAGE:			0.0083	0.2286	0.0000	99.9992

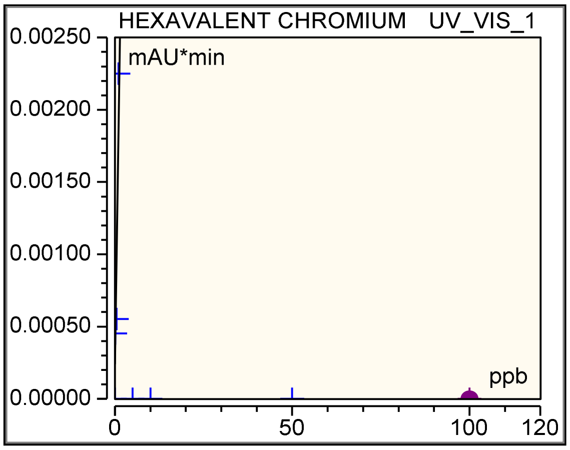
Sample Name:	**CAL 7**	*Inj. Vol.:*	**500.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:50**	*Run Time:*	**8.00**

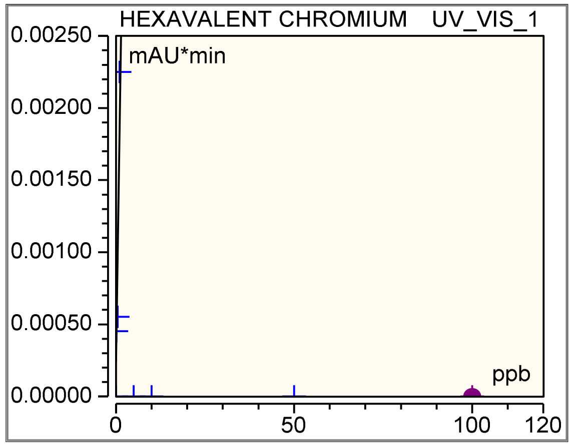
No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00

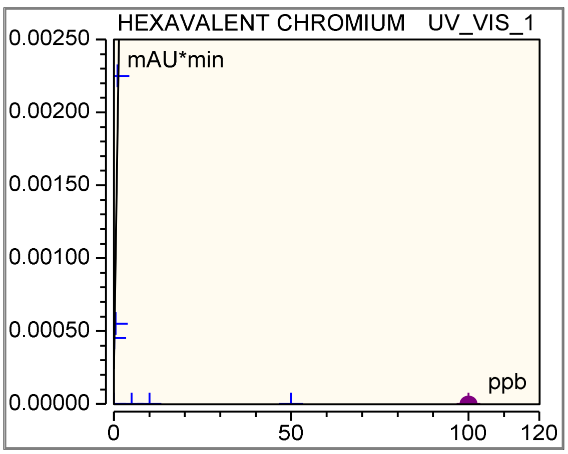


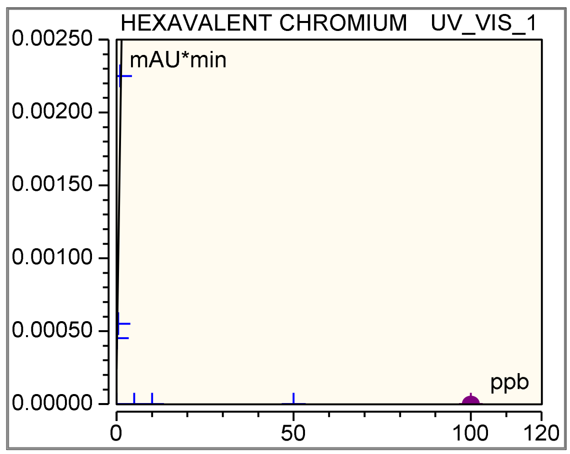
Calibration Batch Report

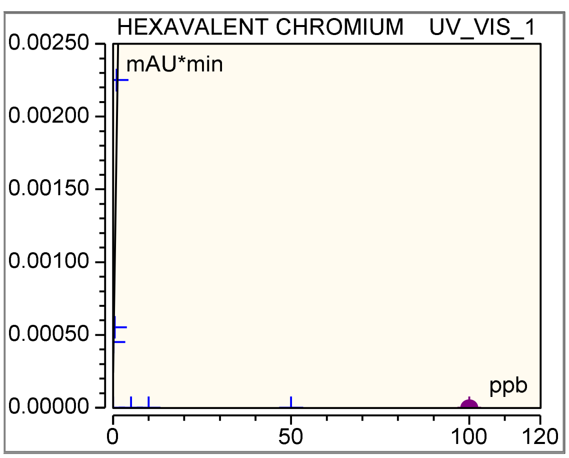
Sequence:	**031225 W**	Inj. Vol.:	**500.0**
Program:	**HEXAVALENT CHROMIUM_no CD2**	Operator:	**METALSIC28**
Inj. Date/Time:	**03/12/25 14:50**	Run Time:	**8.00**

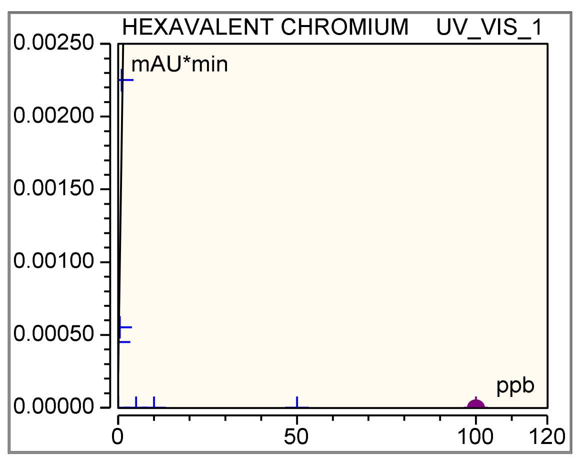




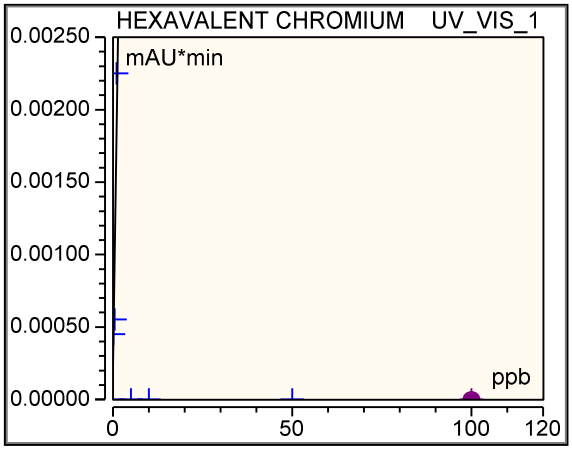








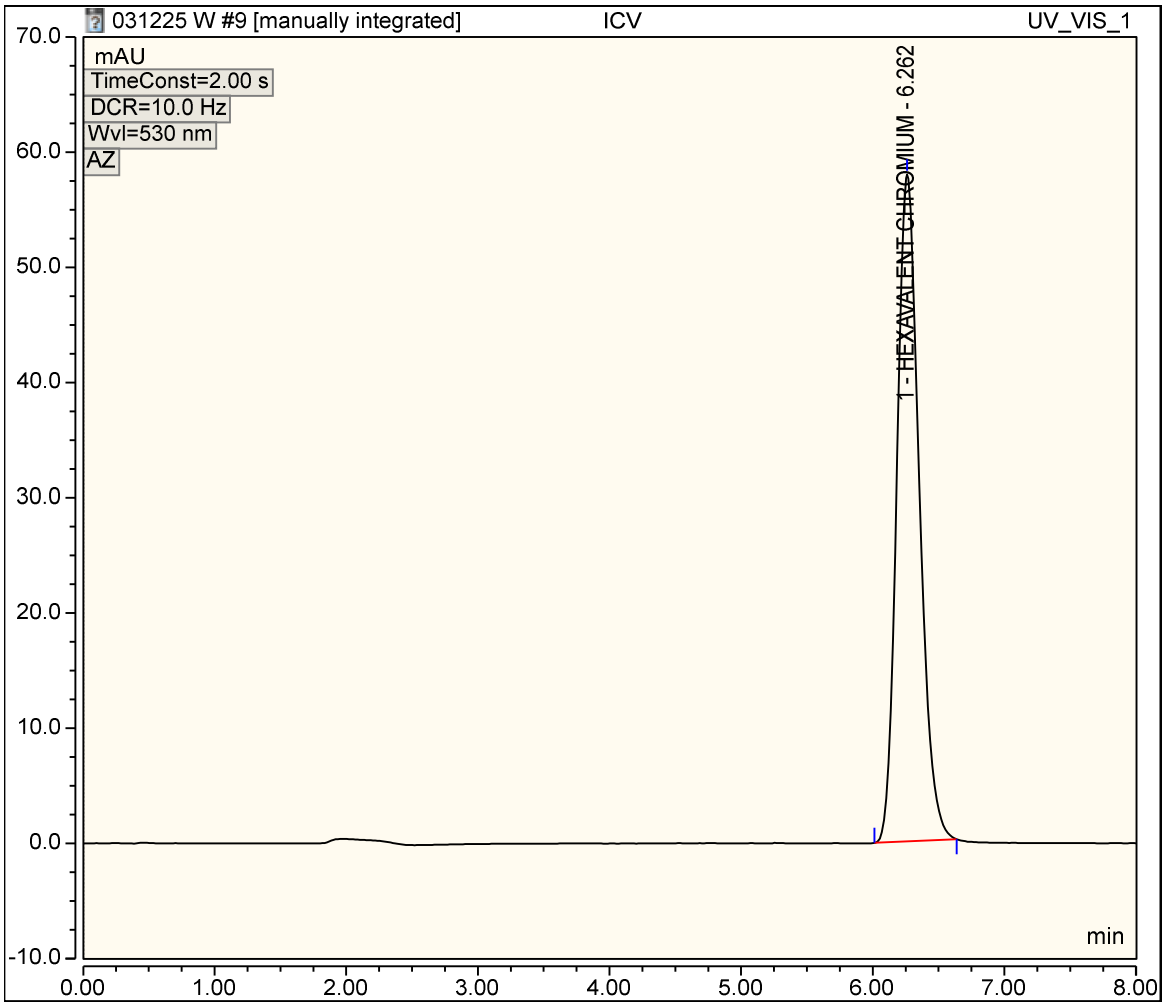
Sequence:	**031225 W**	*Inj. Vol.:*	**500.0**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/12/25 14:50**	*Run Time:*	**8.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
AVERAGE:					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

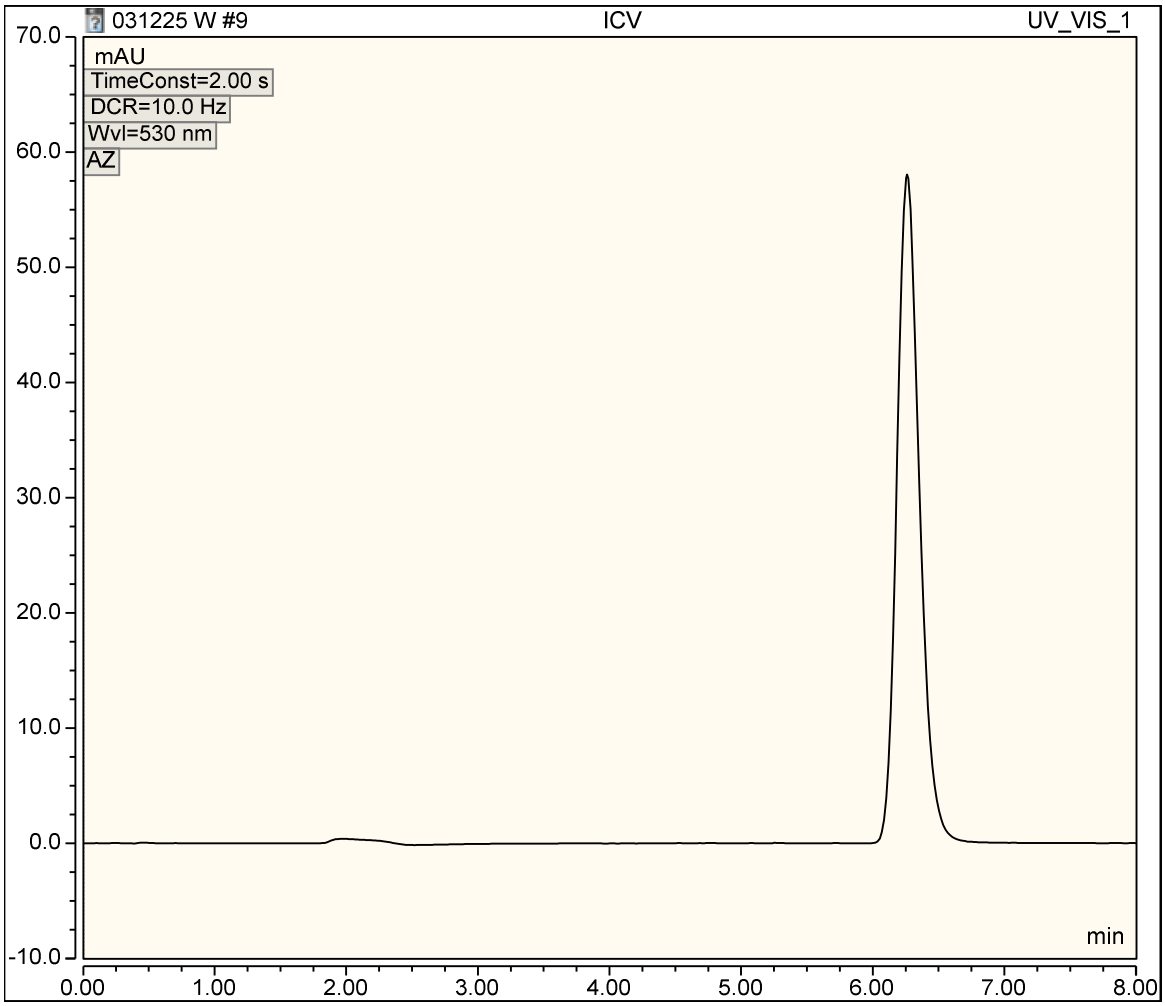
Sample Name:	**ICV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 15:01**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.26	HEXAVALENT CHROMIUM	BMB*	11.394	57.893	49.7983
		TOTAL:		11.39	57.89	49.80



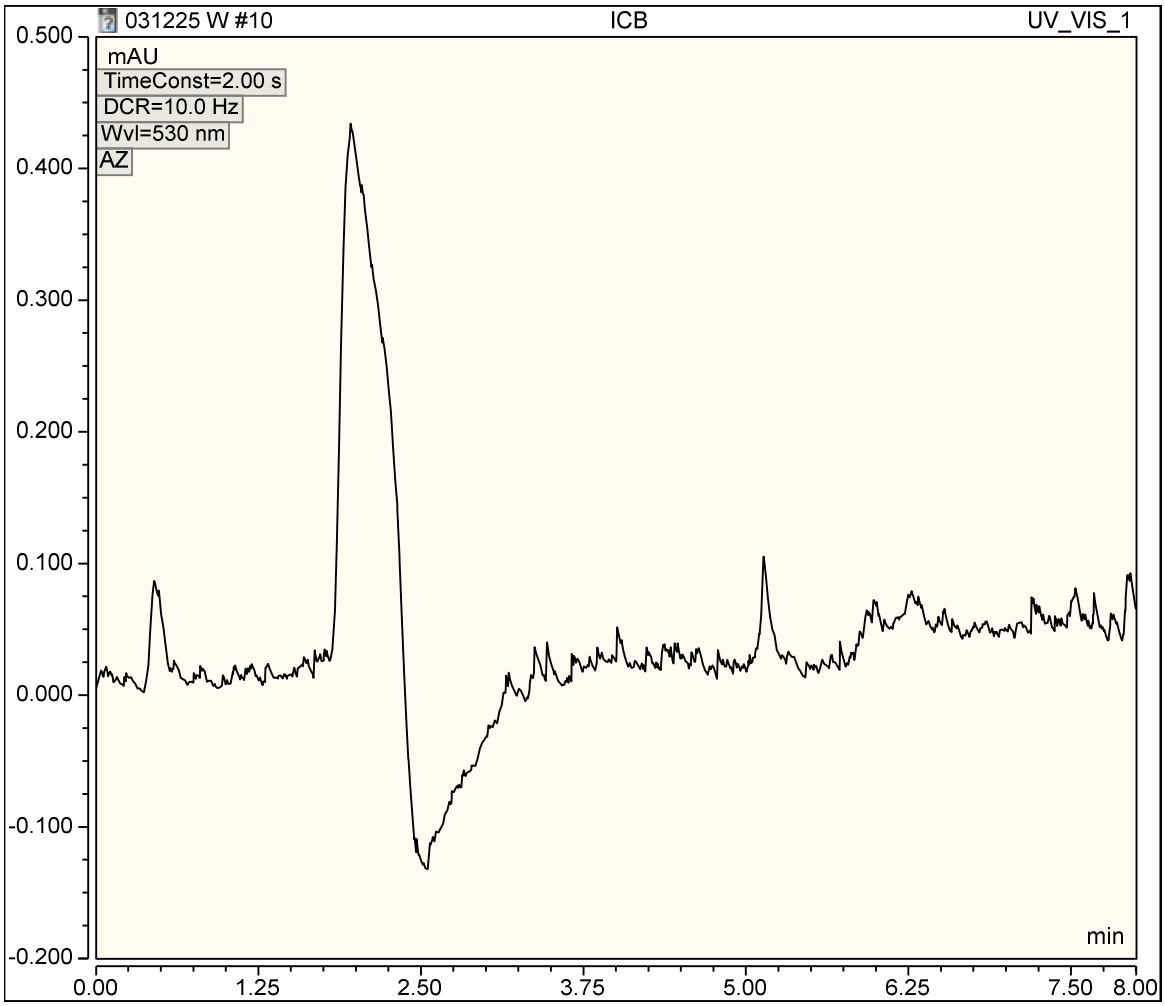
Sample Name:	**ICV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 15:01**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



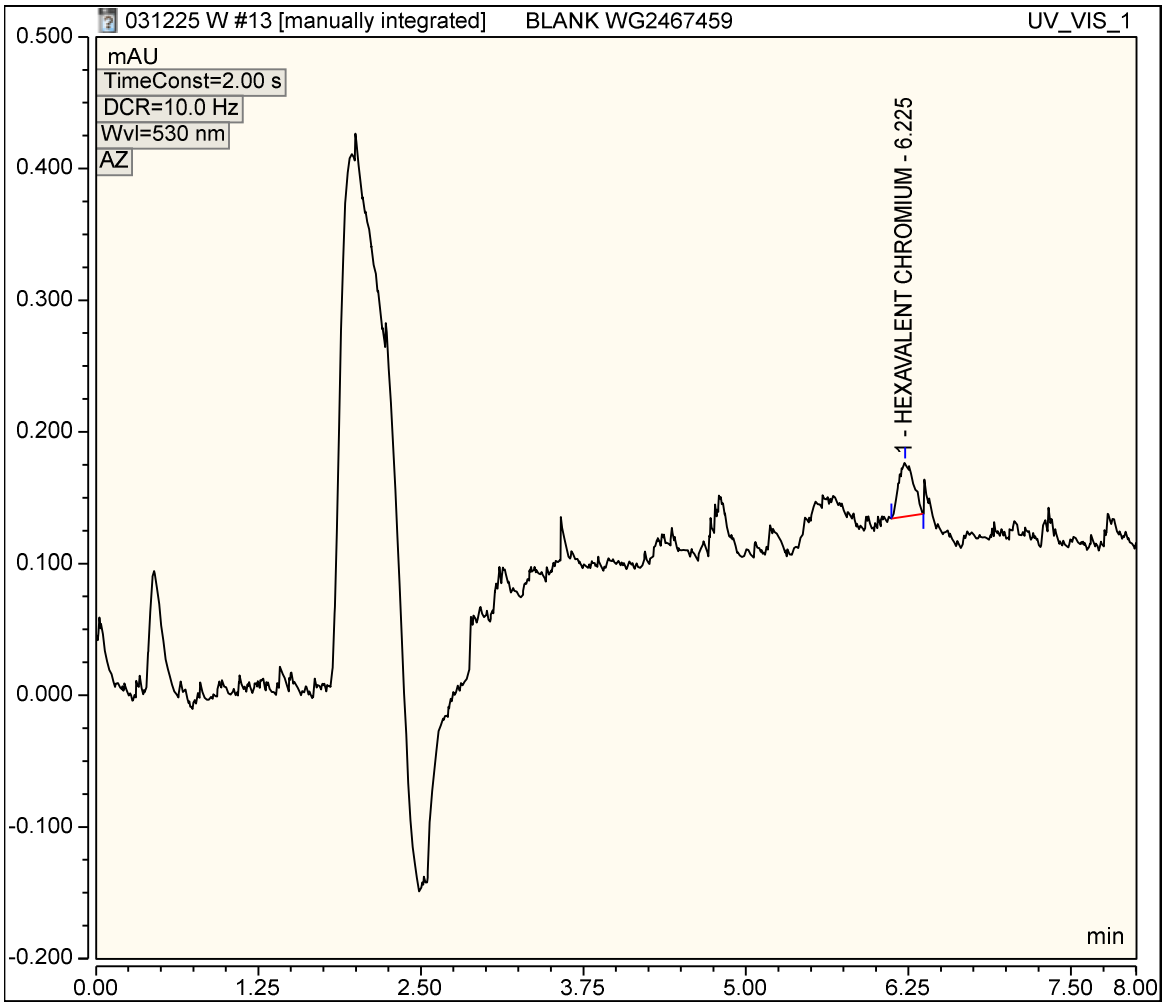
Sample Name:	**ICB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 15:12**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



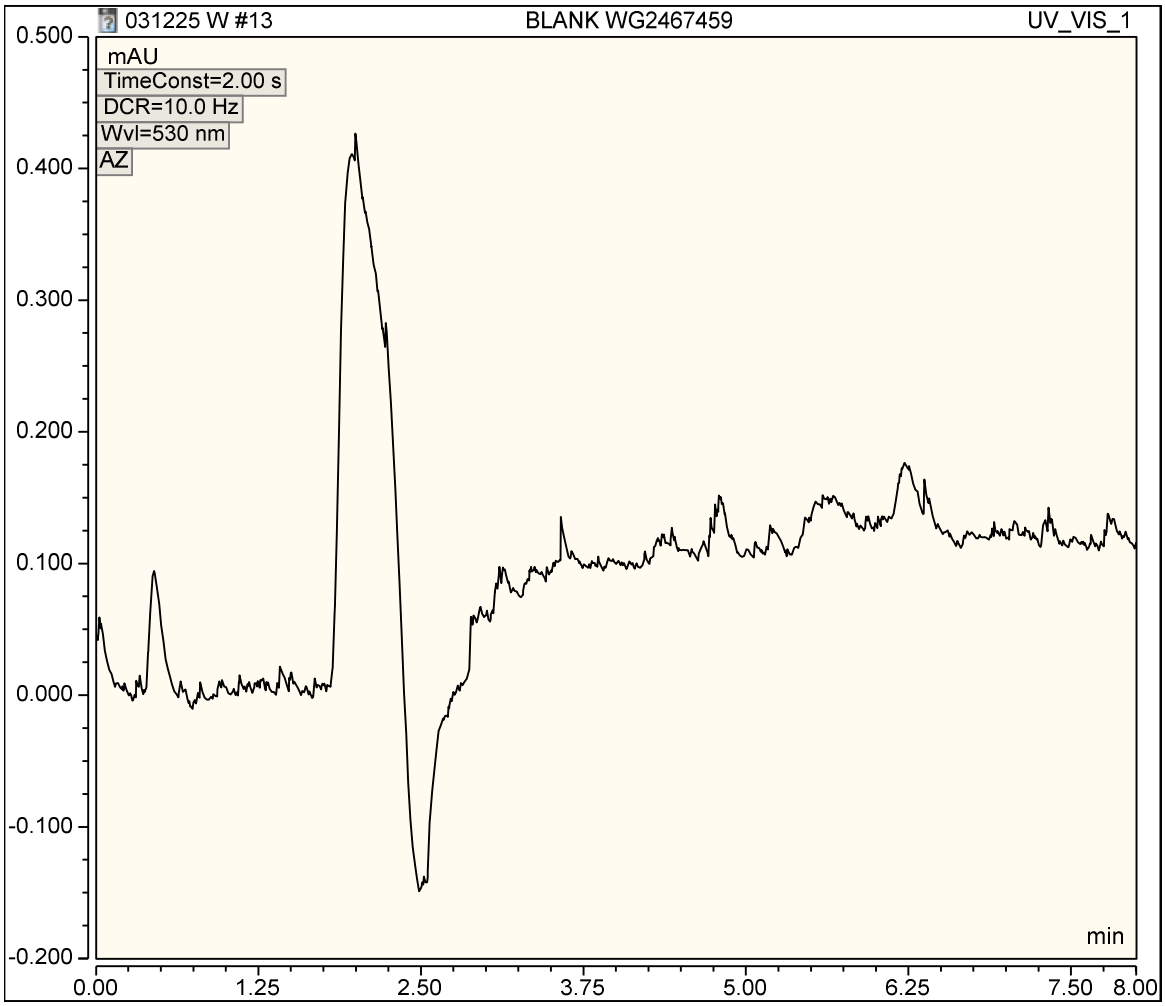
Sample Name:	**BLANK WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 23:08**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.22	HEXAVALENT CHROMIUM	BMB*	0.005	0.041	n.a.
		TOTAL:		0.01	0.04	0.00



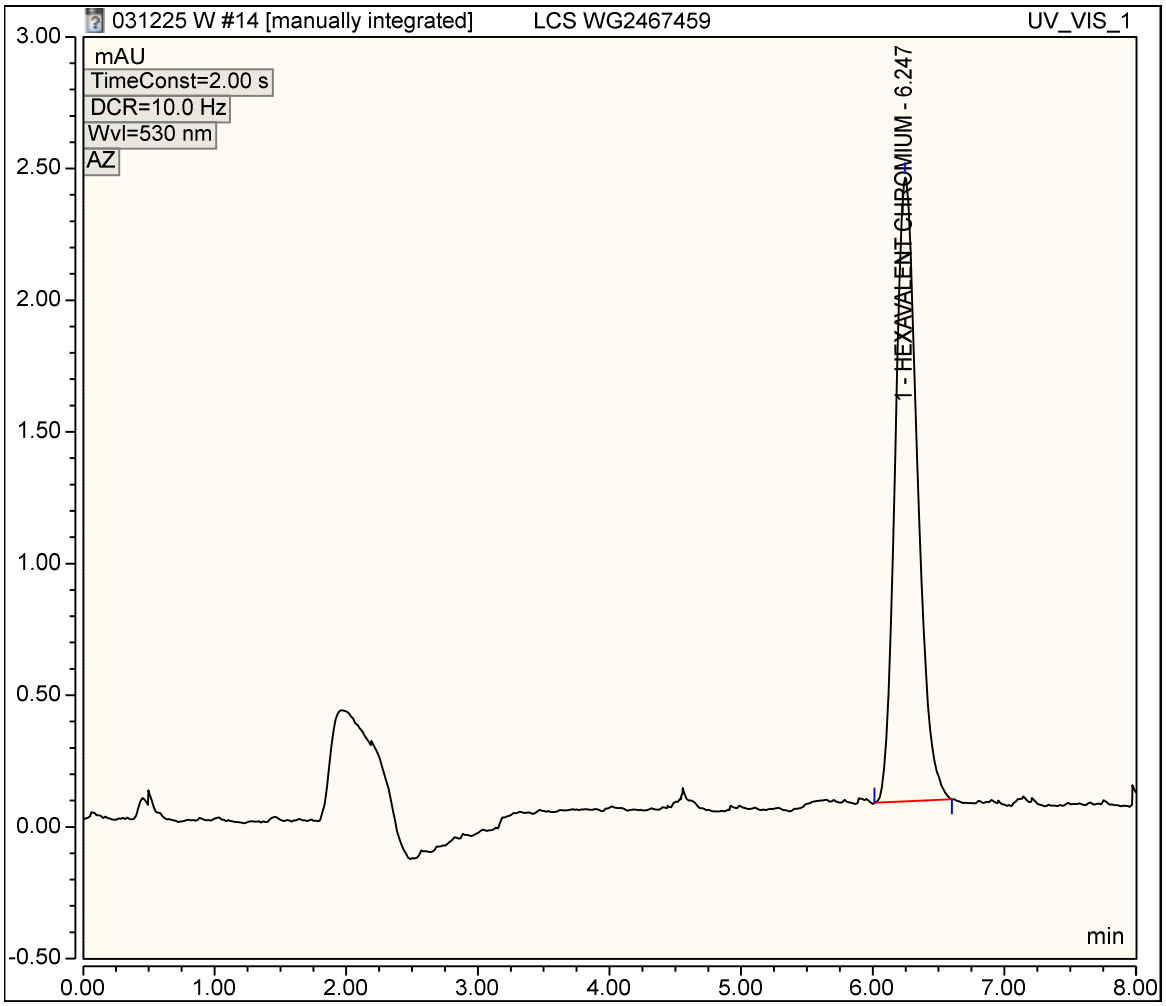
Sample Name:	**BLANK WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 23:08**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



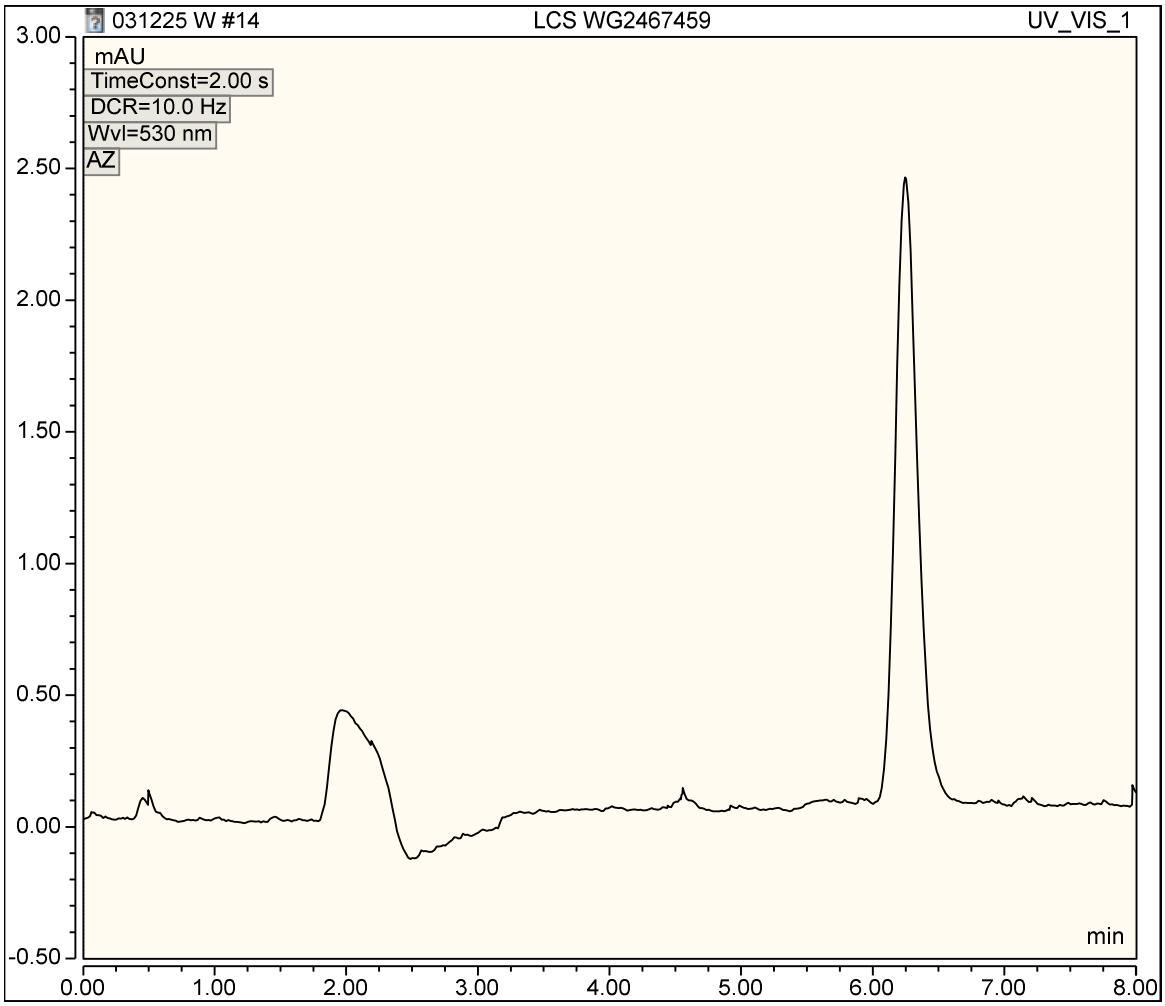
Sample Name:	**LCS WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 23:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.25	HEXAVALENT CHROMIUM	BMB*	0.463	2.369	1.9880
		TOTAL:		0.46	2.37	1.99



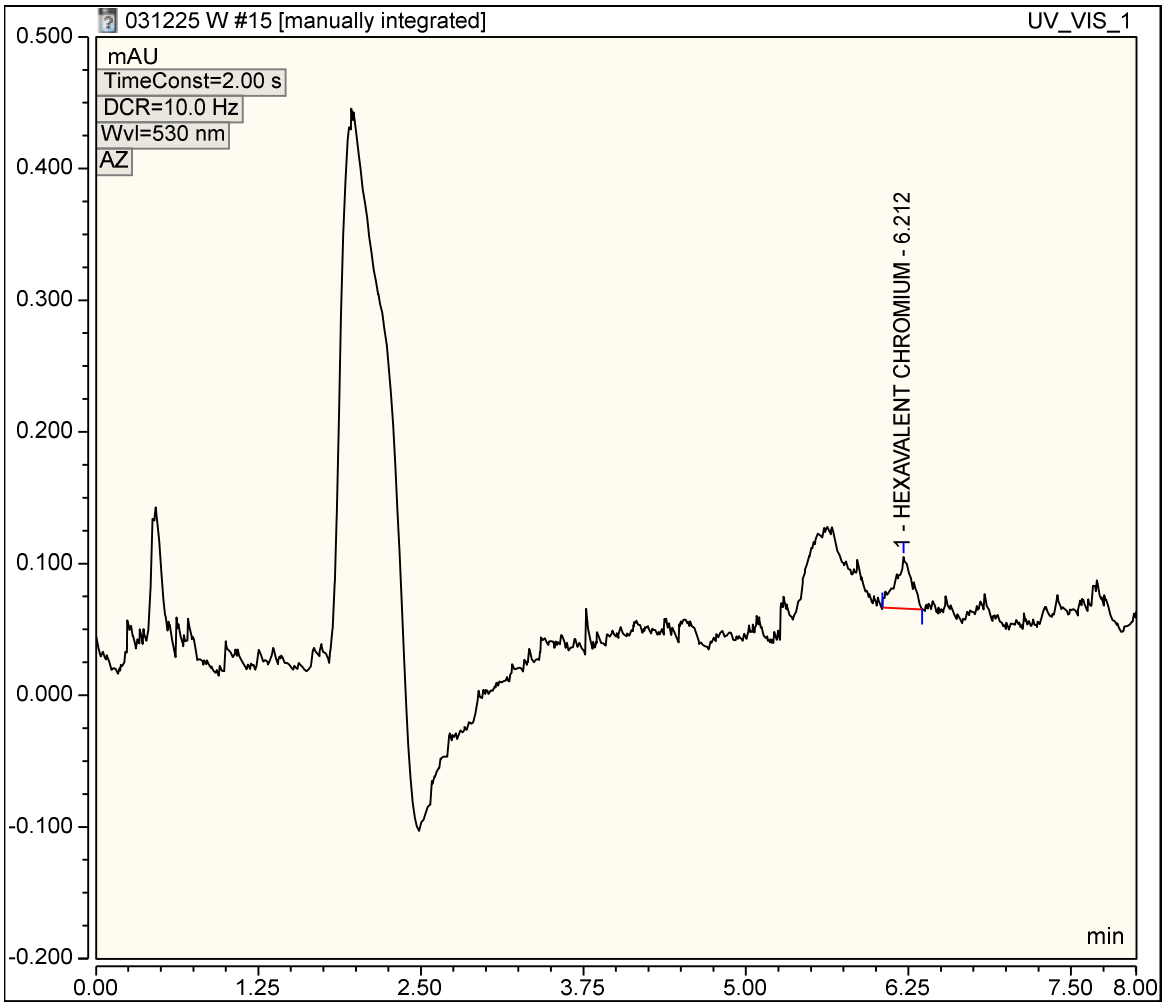
Sample Name:	**LCS WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/12/25 23:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



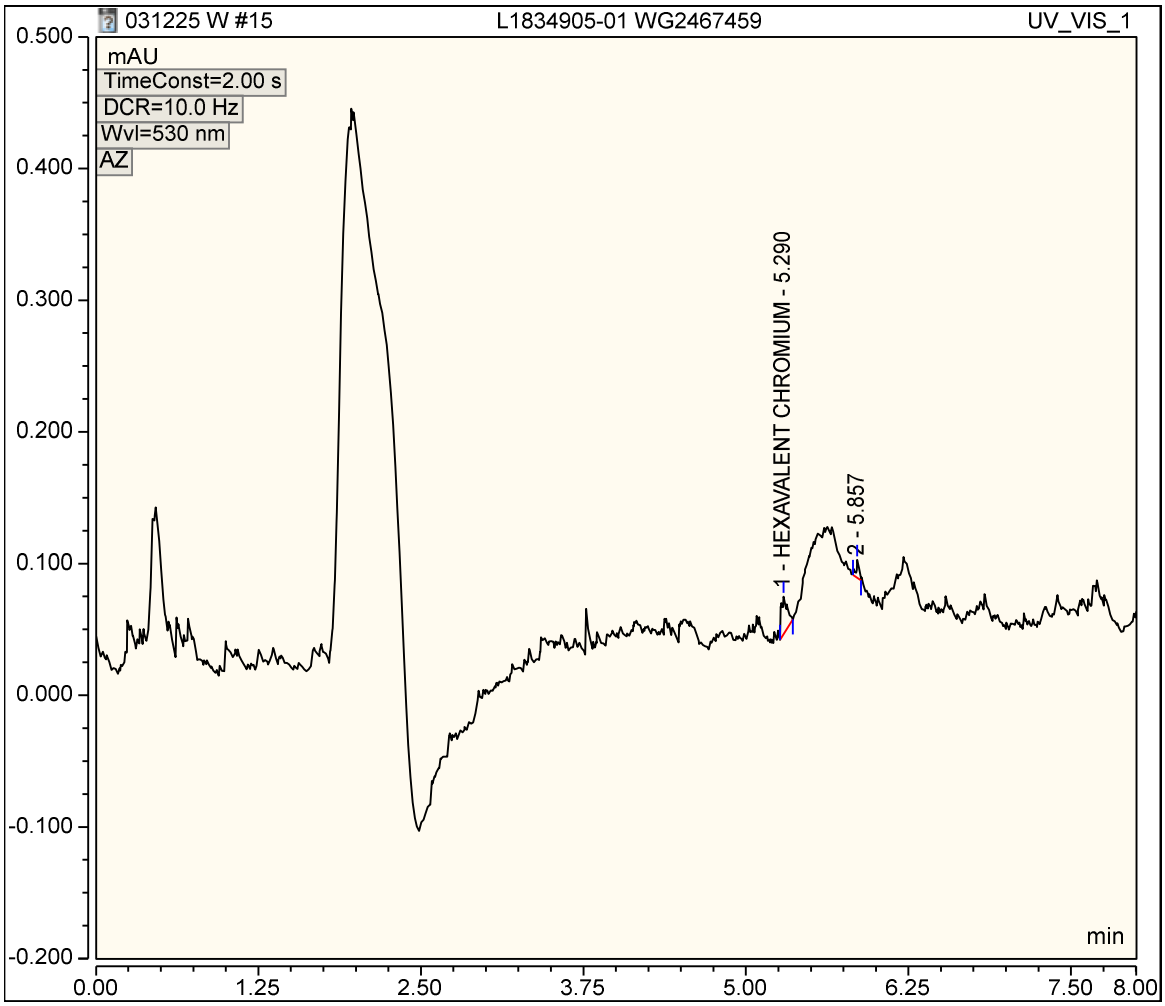
Sample Name:	**L1834905-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 00:04**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.21	HEXAVALENT CHROMIUM	BMB*	0.006	0.039	n.a.
		TOTAL:		0.01	0.04	0.00



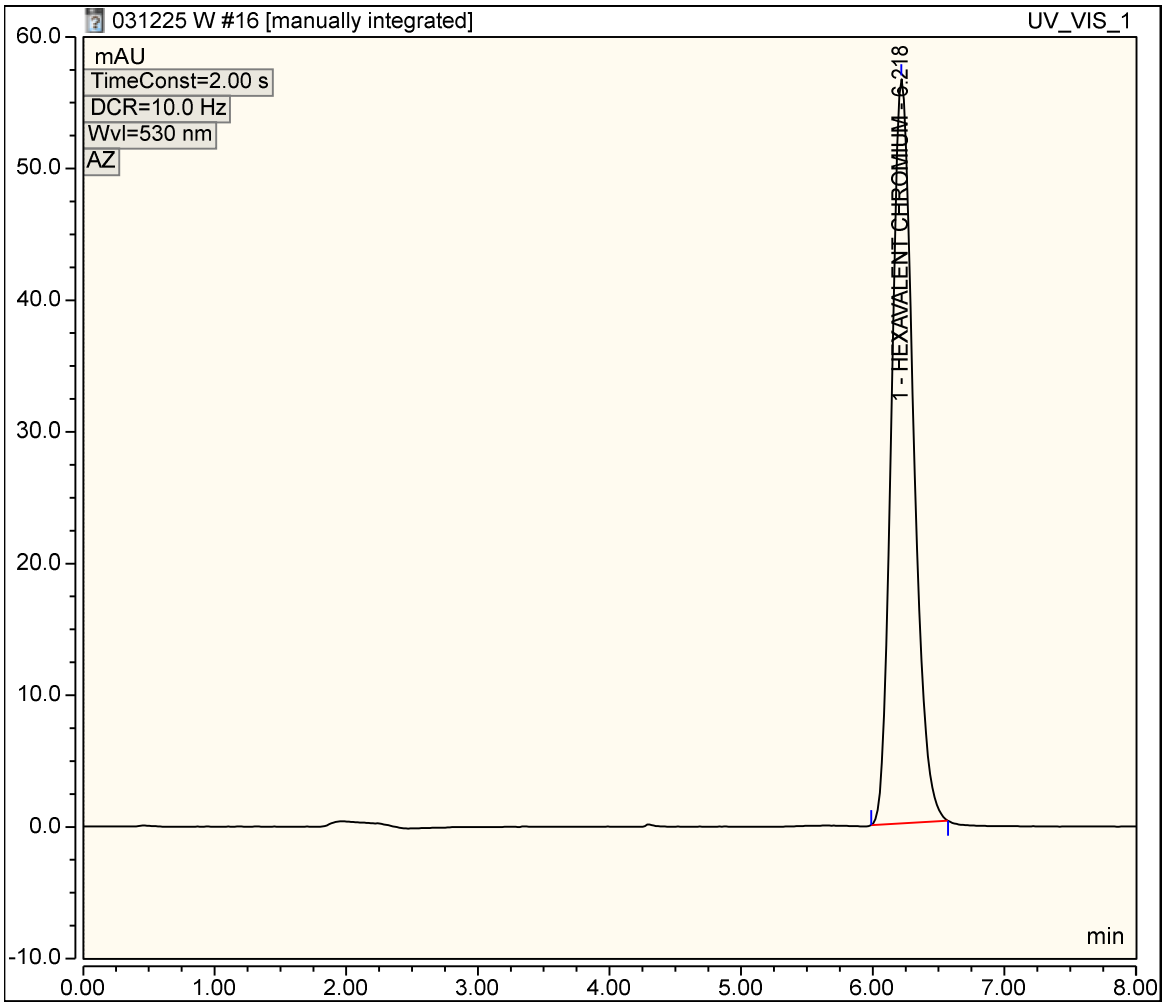
Sample Name:	**L1834905-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 00:04**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.29	HEXAVALENT CHROMIUM	BMB	0.001	0.029	0.7870
		TOTAL:		0.00	0.03	0.79



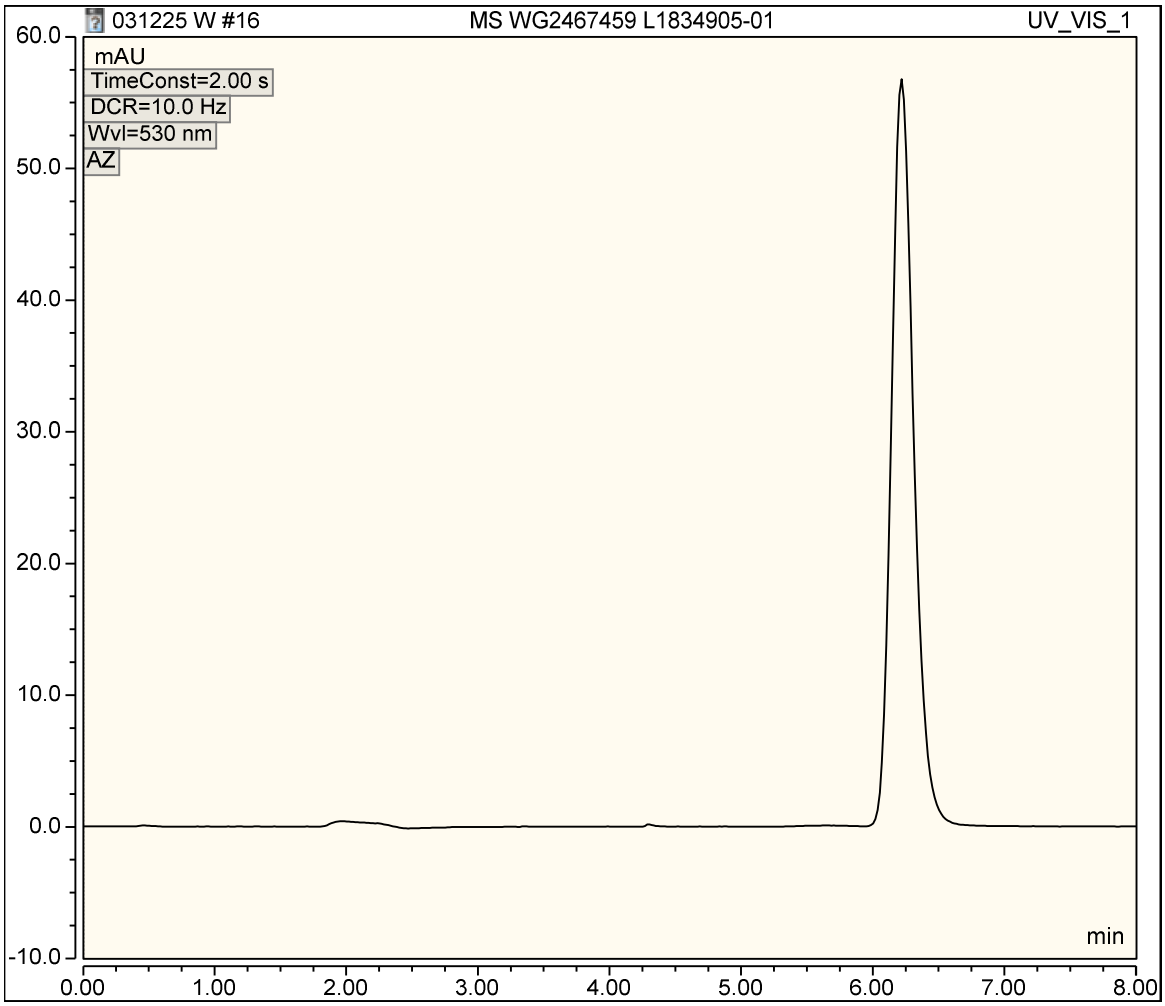
Sample Name:	**MS WG2467459 L1834905-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 00:15**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.22	HEXAVALENT CHROMIUM	BMB*	10.931	56.528	47.7751
		TOTAL:		10.93	56.53	47.78



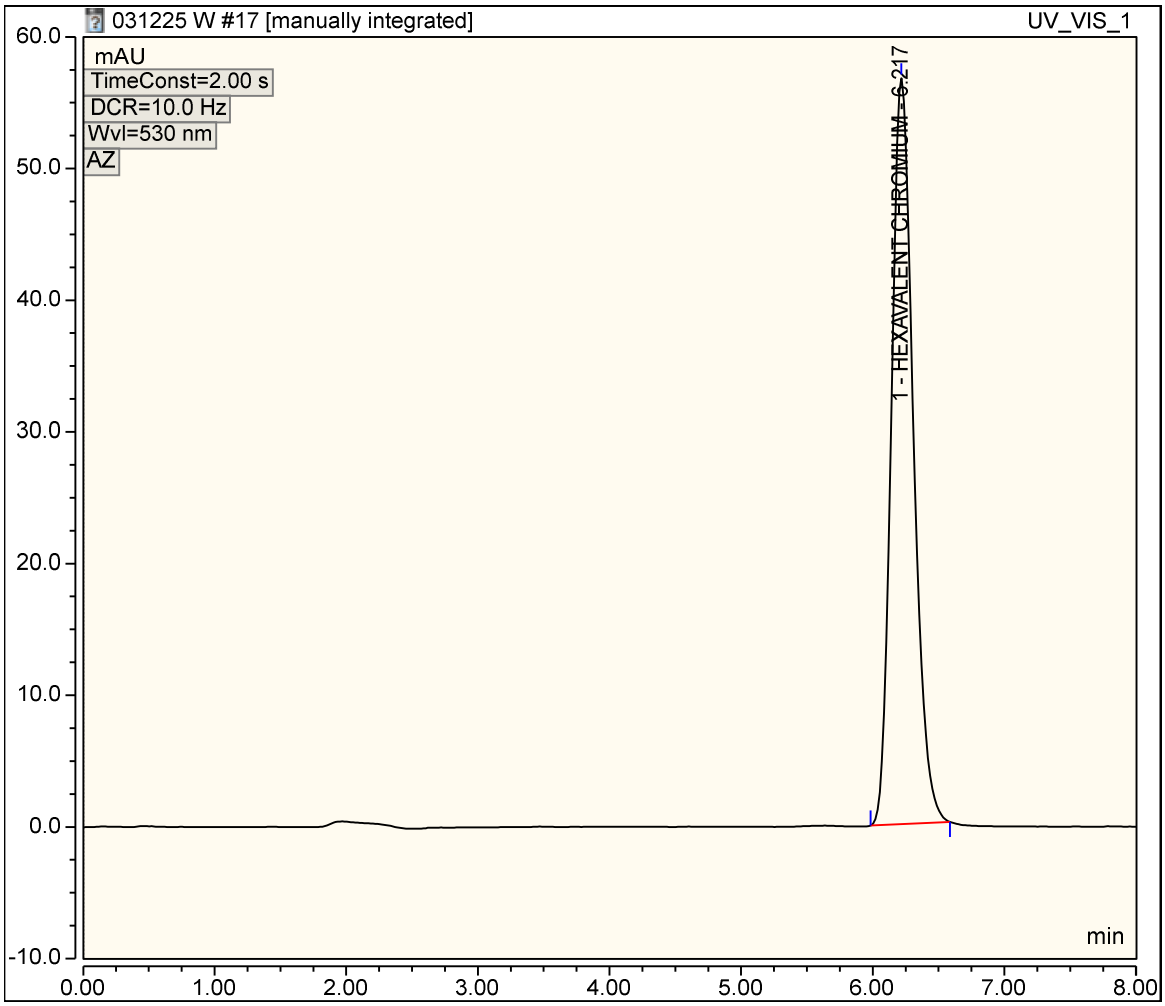
Sample Name:	**MS WG2467459 L1834905-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 00:15**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



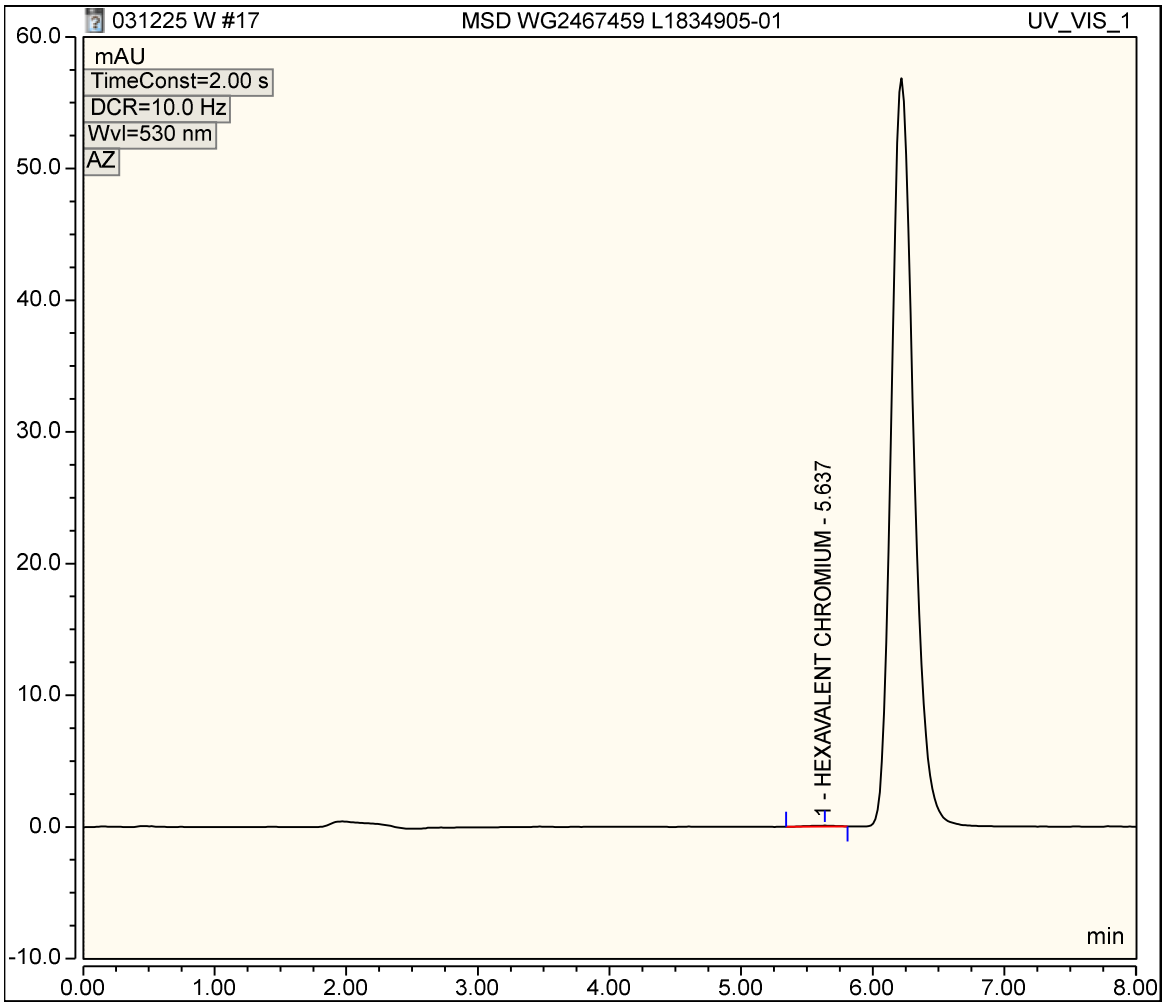
Sample Name:	**MSD WG2467459 L1834905-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 00:25**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.22	HEXAVALENT CHROMIUM	BMB*	10.950	56.655	47.8551
		TOTAL:		10.95	56.66	47.86



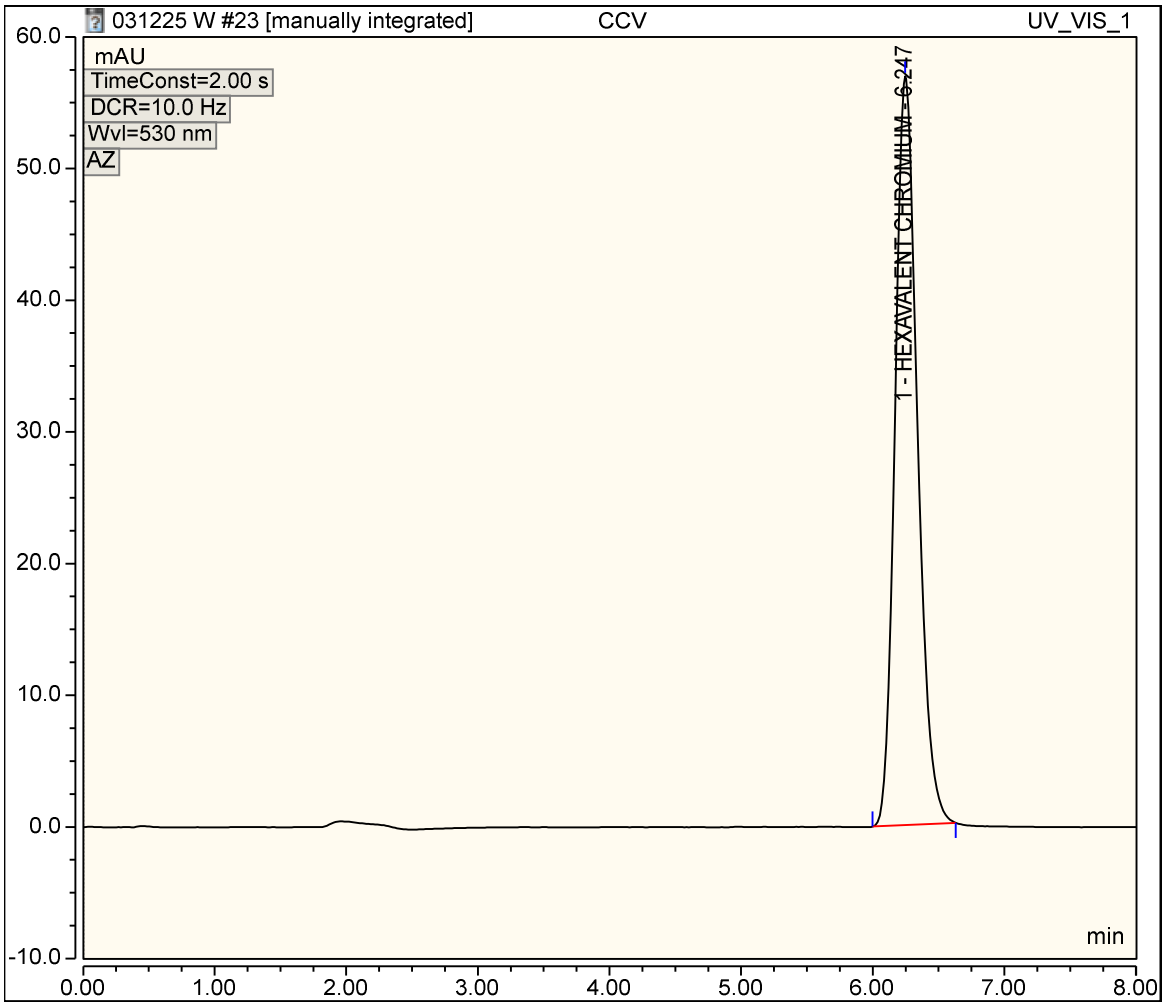
Sample Name:	**MSD WG2467459 L1834905-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 00:25**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.64	HEXAVALENT CHROMIUM	BMB	0.018	0.076	11.4931
		TOTAL:		0.02	0.08	11.49



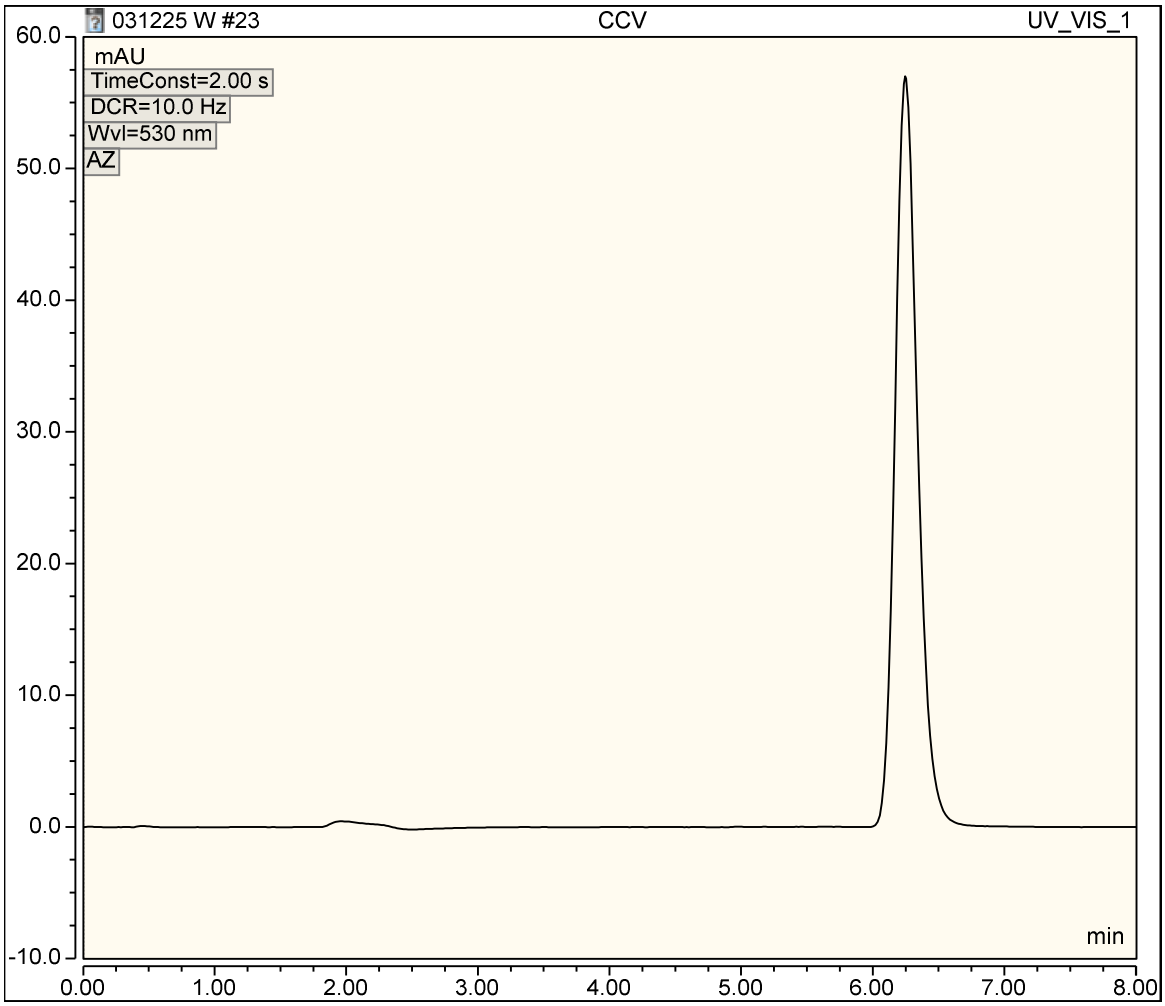
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 01:31**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.25	HEXAVALENT CHROMIUM	BMB*	11.222	56.856	49.0455
		TOTAL:		11.22	56.86	49.05



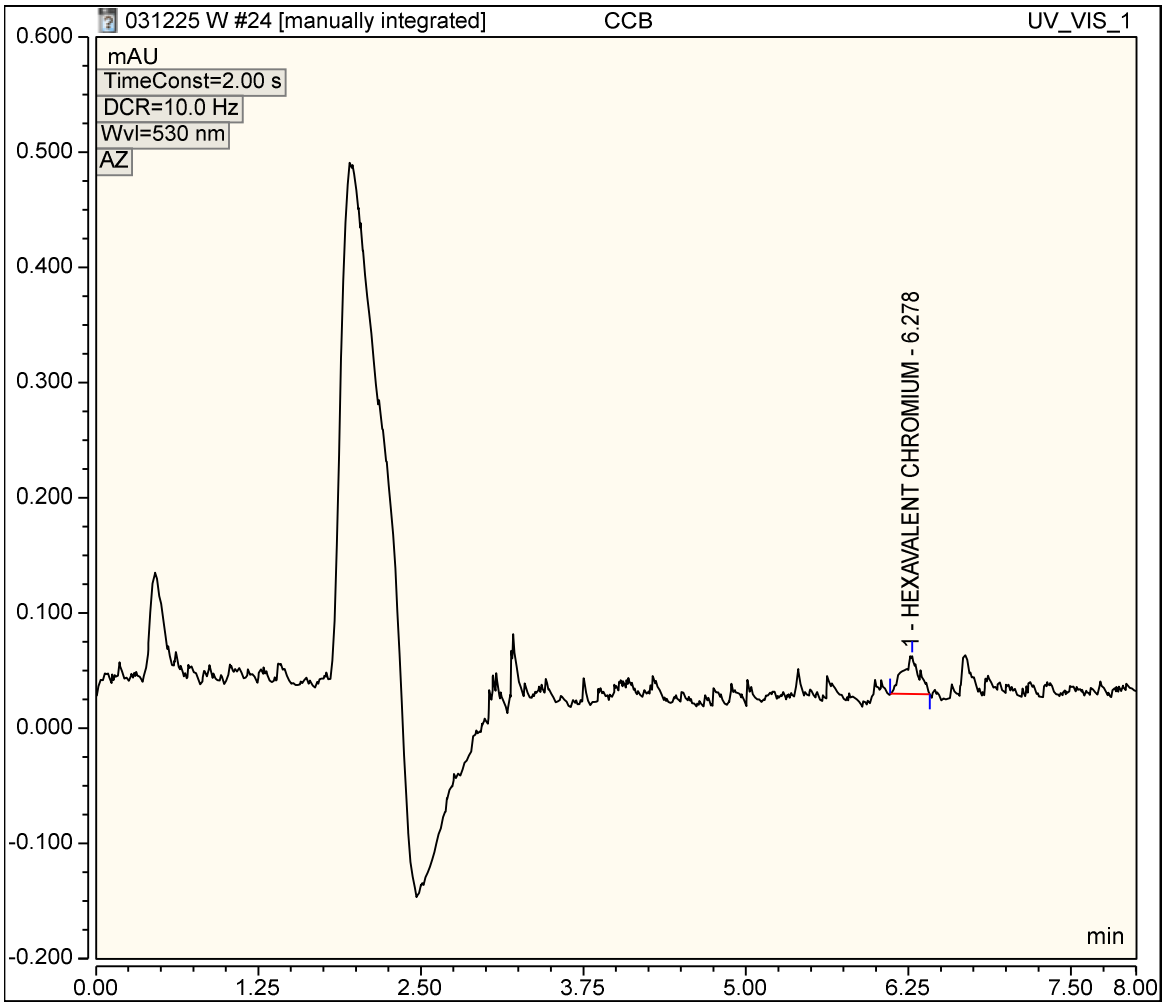
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 01:31**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



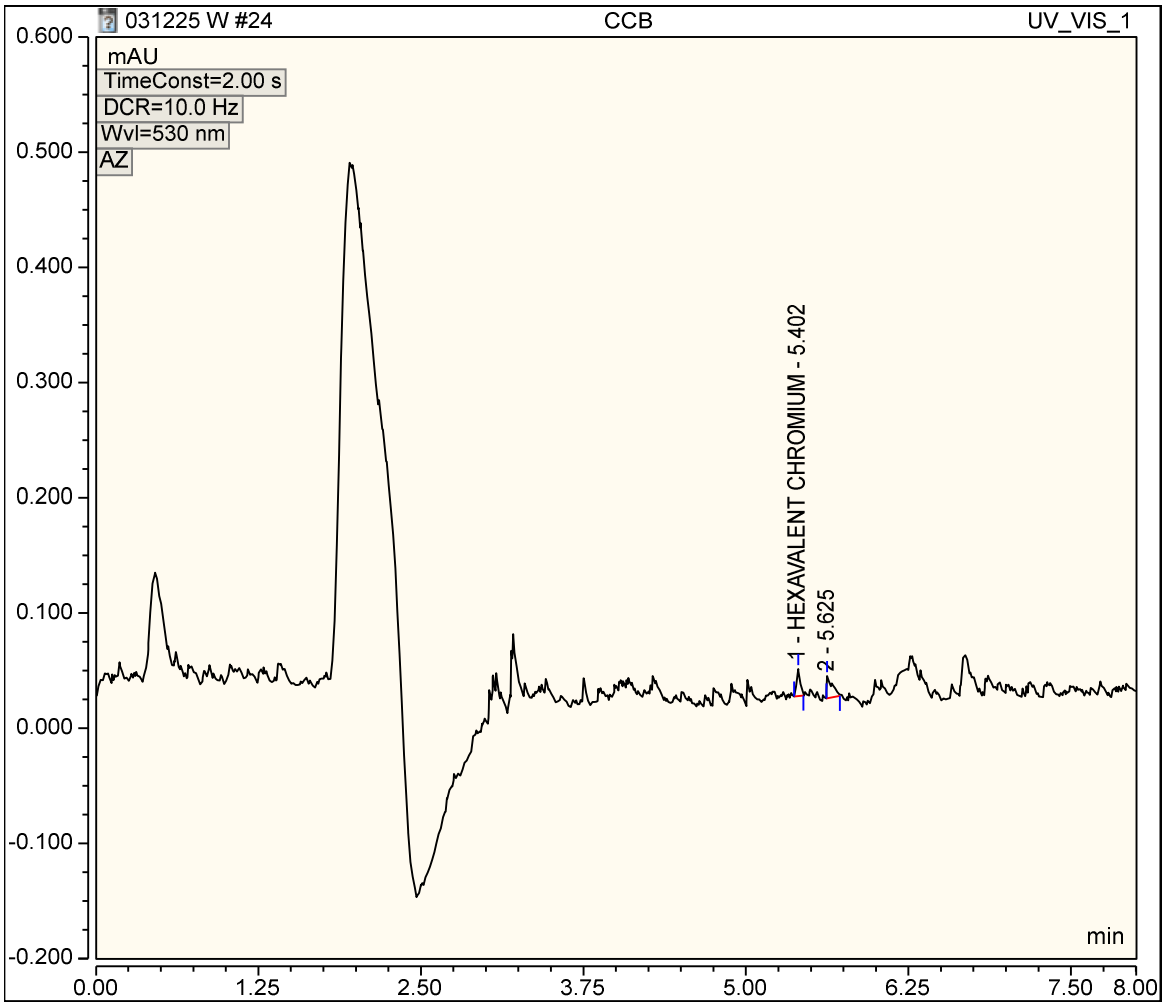
Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 01:42**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.28	HEXAVALENT CHROMIUM	BMB*	0.005	0.033	n.a.
		TOTAL:		0.00	0.03	0.00



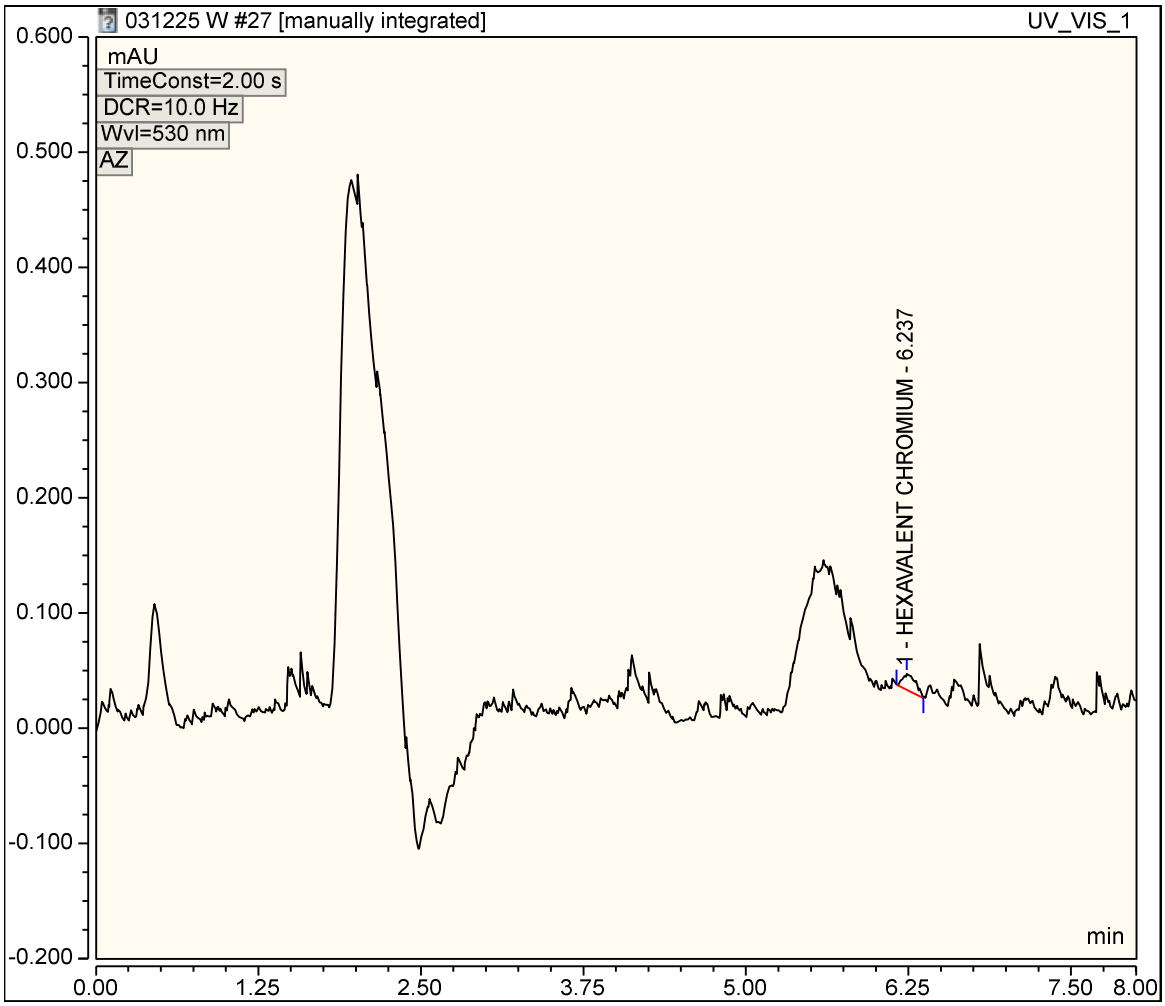
Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 01:42**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.40	HEXAVALENT CHROMIUM	BMB	0.001	0.023	0.3065
		TOTAL:		0.00	0.02	0.31



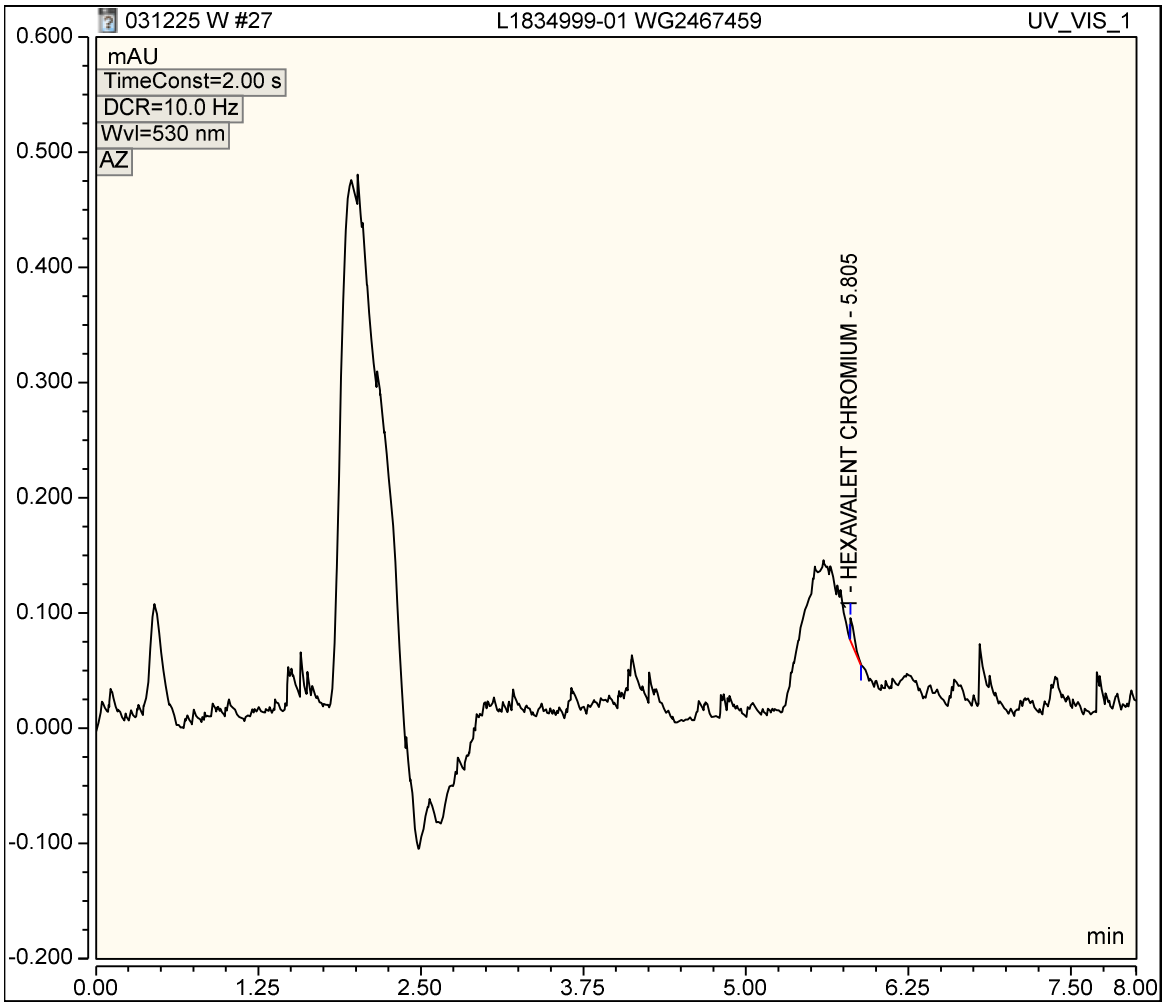
Sample Name:	**L1834999-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:14**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	HEXAVALENT CHROMIUM	BMB*	0.002	0.014	n.a.
		TOTAL:		0.00	0.01	0.00



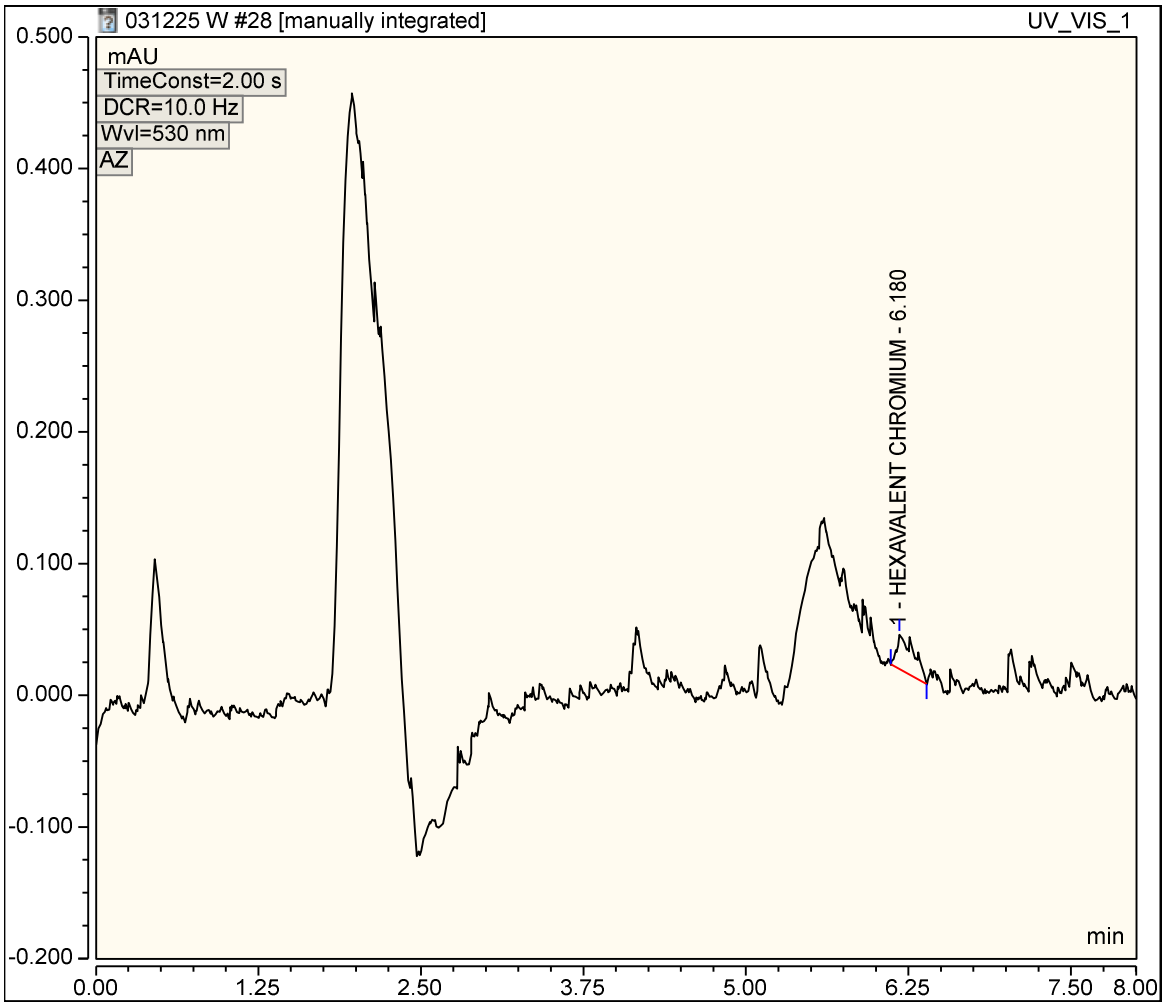
Sample Name:	**L1834999-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:14**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.80	HEXAVALENT CHROMIUM	BMB	0.001	0.020	0.3288
		TOTAL:		0.00	0.02	0.33



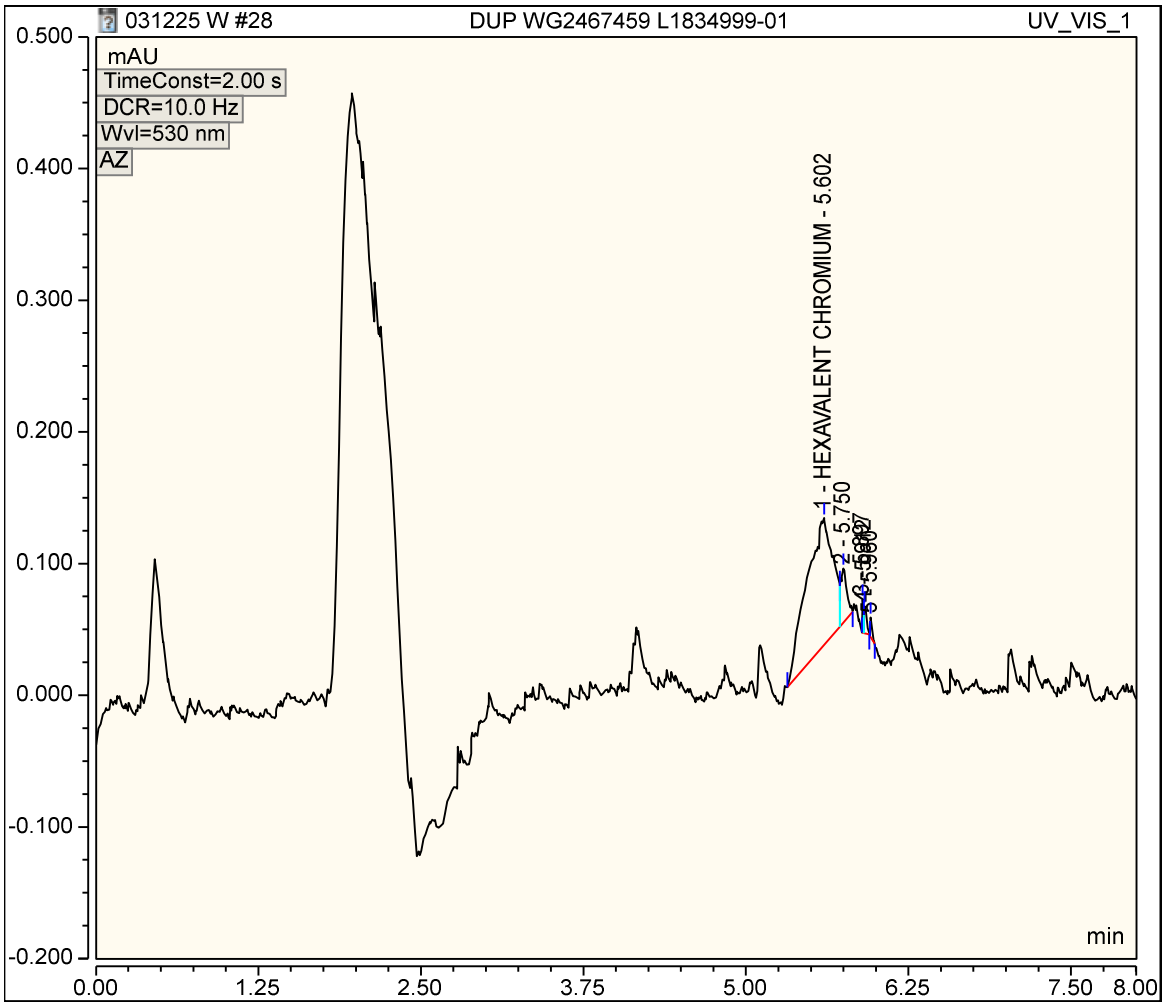
Sample Name:	**DUP WG2467459 L1834999-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:25**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.18	HEXAVALENT CHROMIUM	BMB*	0.004	0.026	n.a.
		TOTAL:		0.00	0.03	0.00



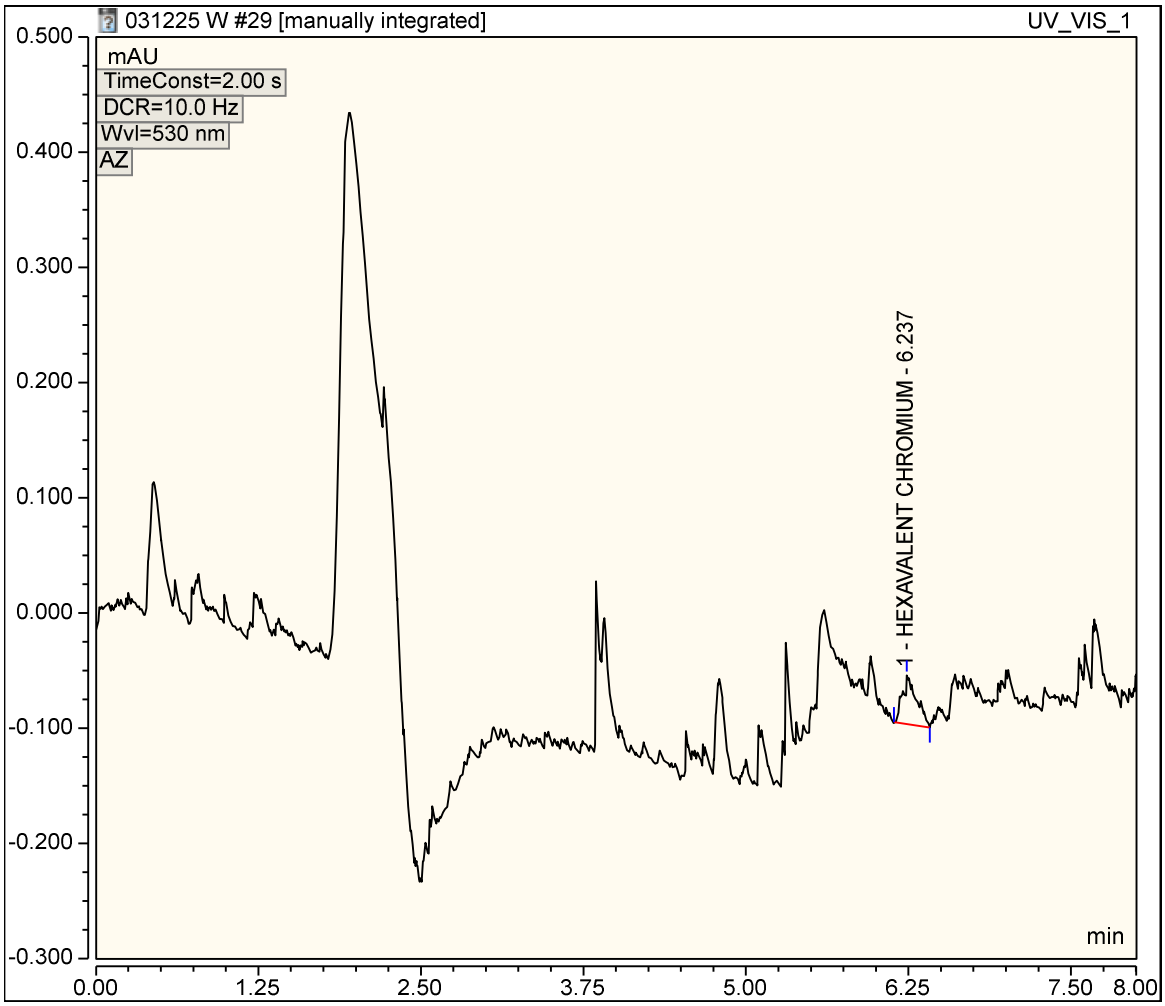
Sample Name:	**DUP WG2467459 L1834999-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:25**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.60	HEXAVALENT CHROMIUM	BM	0.023	0.096	14.4592
		TOTAL:		0.02	0.10	14.46



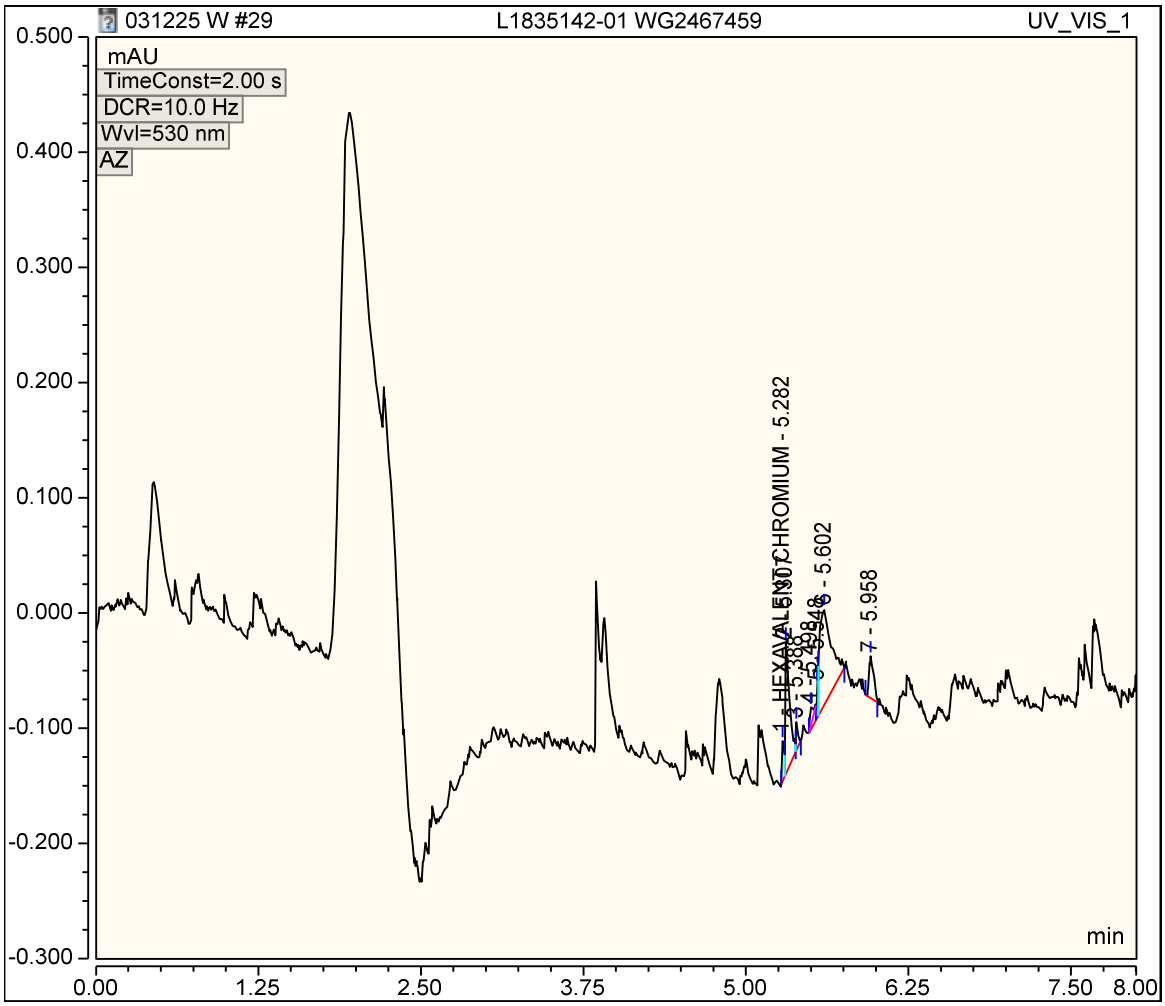
Sample Name:	**L1835142-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	HEXAVALENT CHROMIUM	BMB*	0.005	0.042	n.a.
		TOTAL:		0.01	0.04	0.00



Sample Name:	**L1835142-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.28	HEXAVALENT CHROMIUM	BM	0.001	0.035	0.1807
		TOTAL:		0.00	0.04	0.18

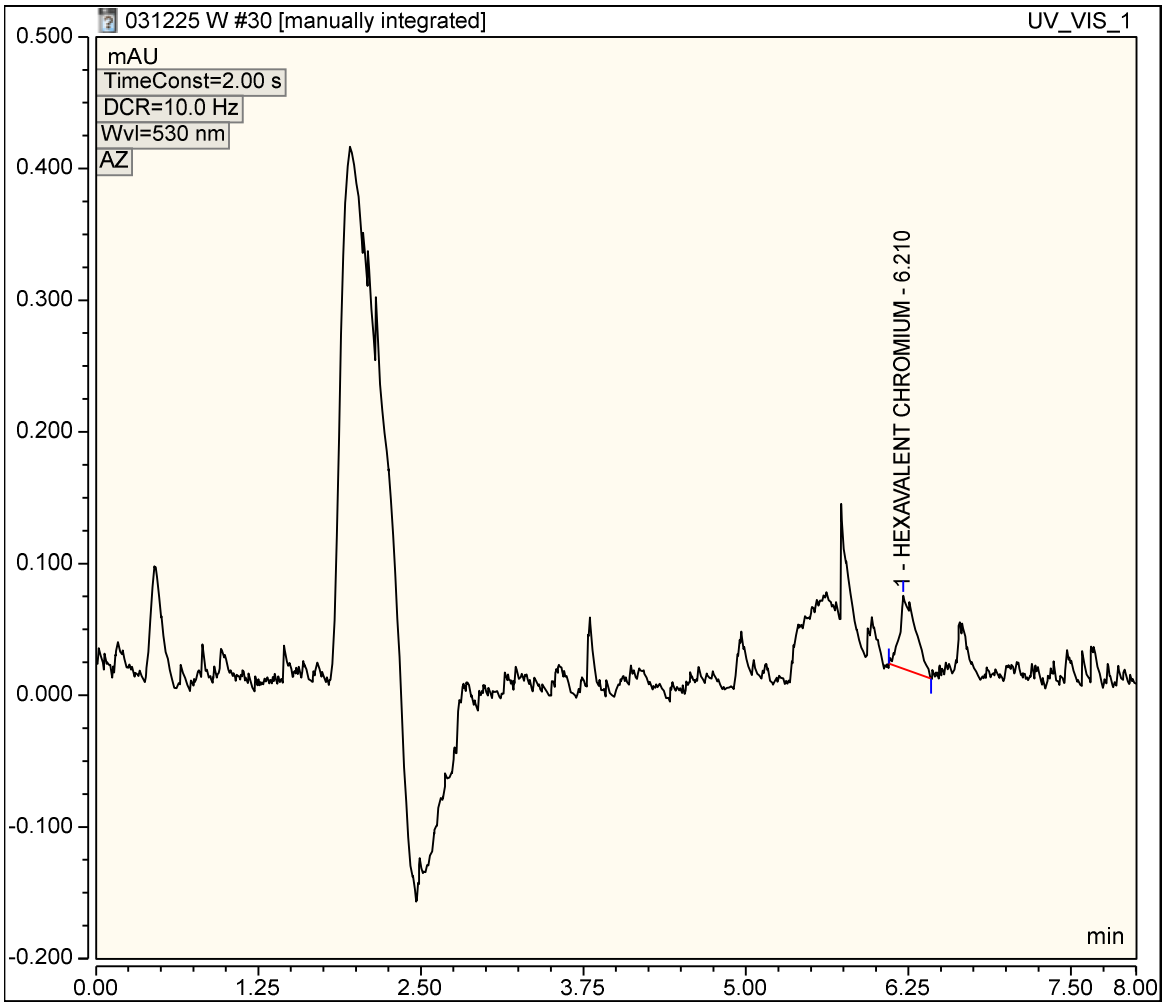


Export for Tree/Integration

PeakNet 6 (r) Dionex 2001
Version 7.3.1.6535

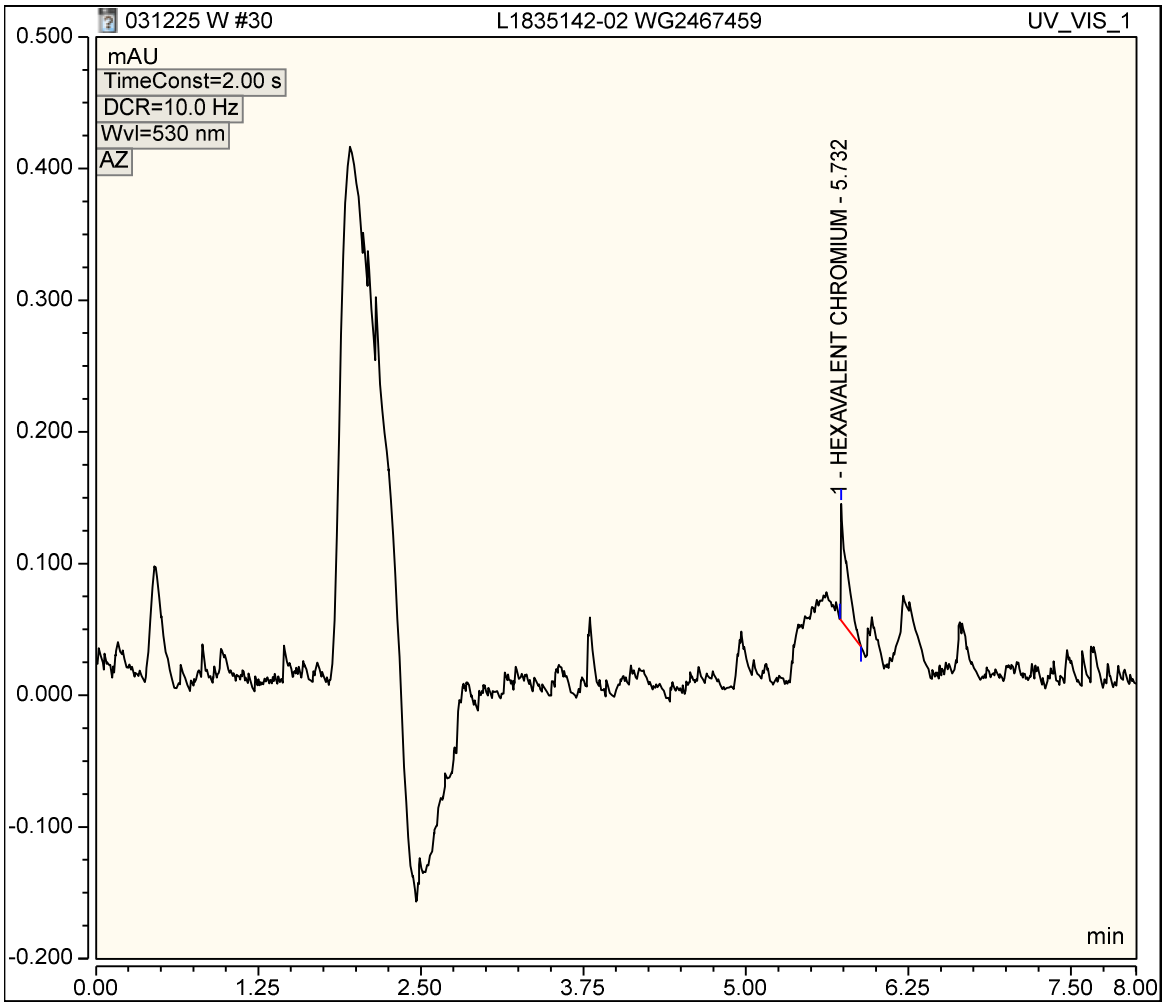
Sample Name:	**L1835142-02 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:47**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.21	HEXAVALENT CHROMIUM	BMB*	0.008	0.055	n.a.
		TOTAL:		0.01	0.06	0.00



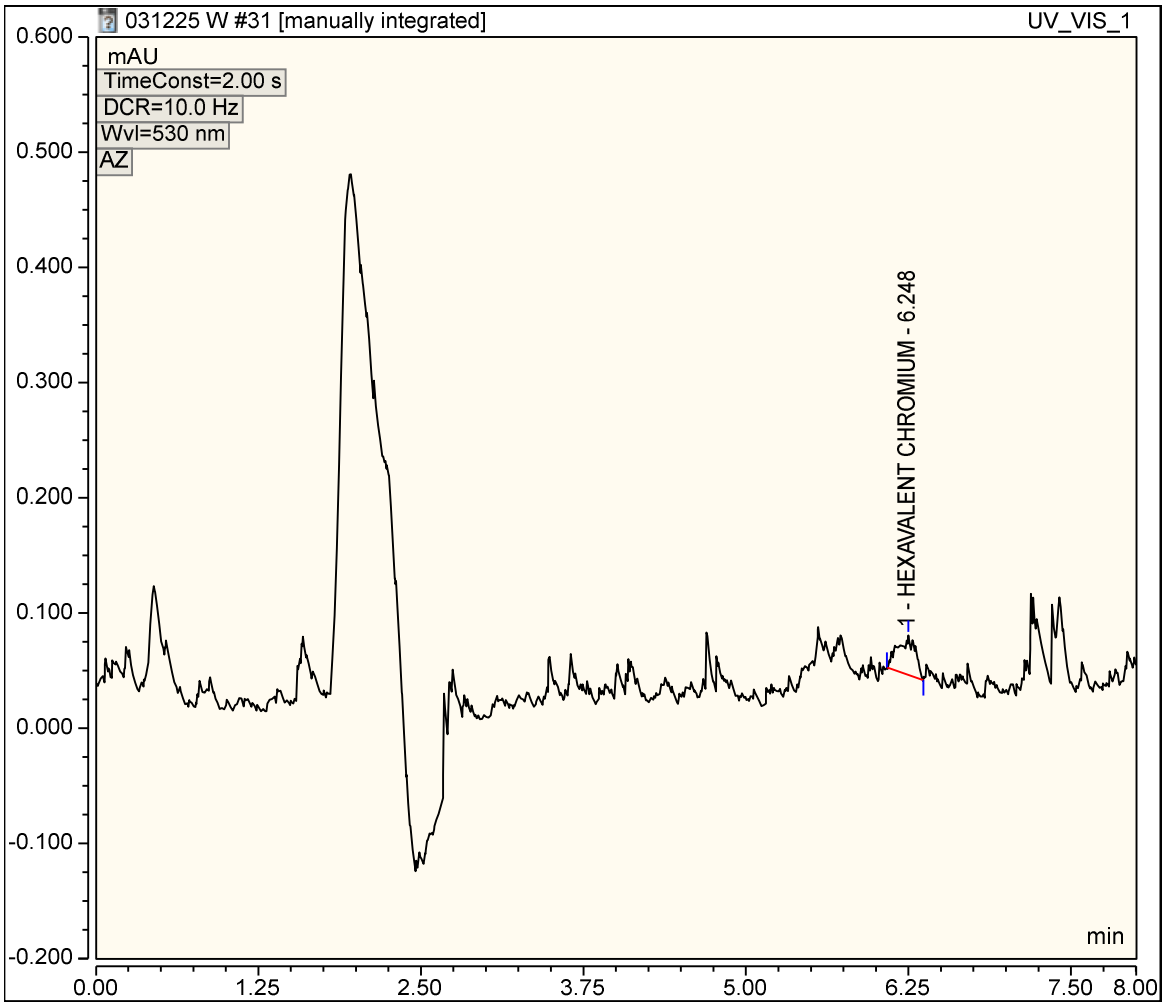
Sample Name:	**L1835142-02 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:47**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.73	HEXAVALENT CHROMIUM	BMB	0.005	0.088	2.9840
		TOTAL:		0.00	0.09	2.98



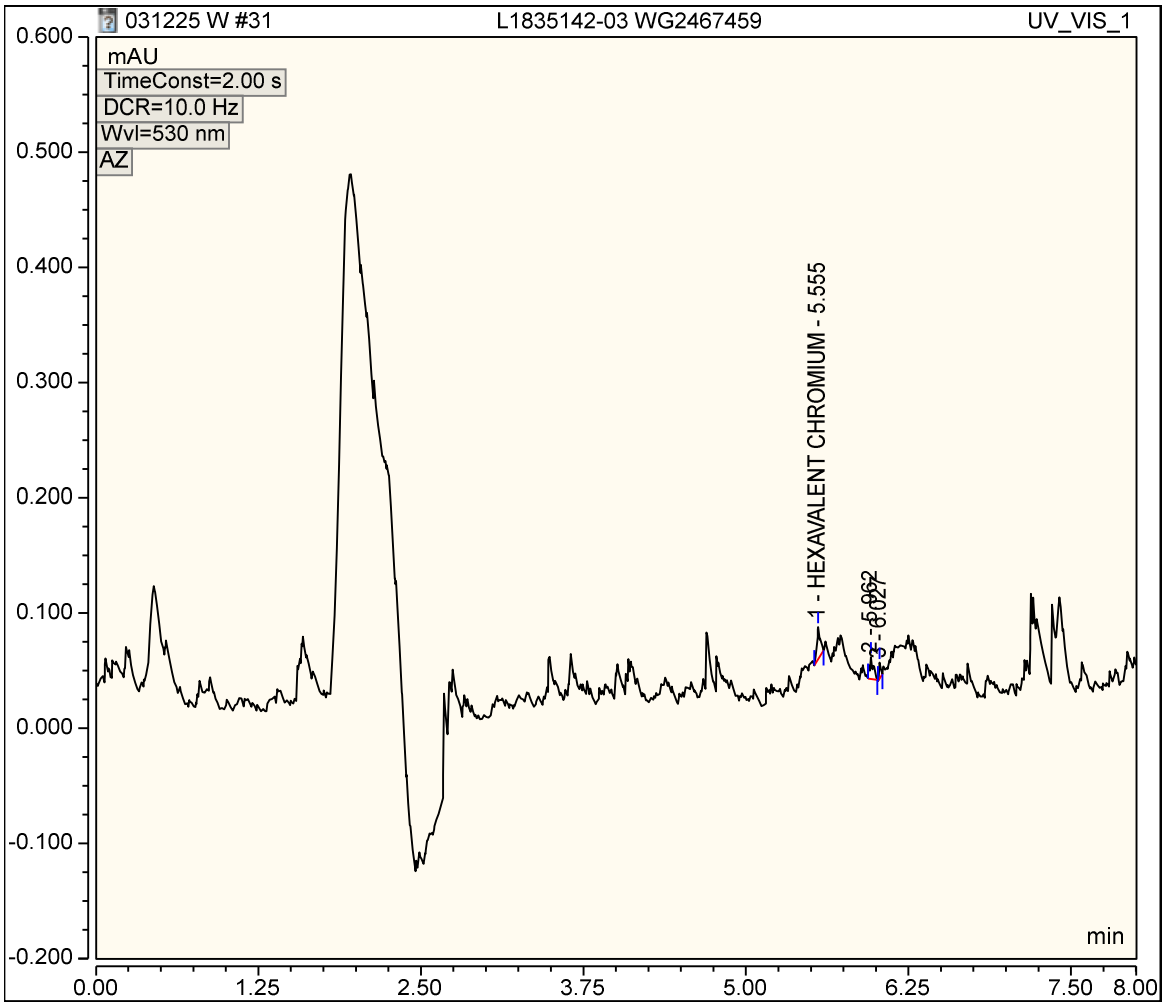
Sample Name:	**L1835142-03 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:58**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.25	HEXAVALENT CHROMIUM	BMB*	0.005	0.034	n.a.
		TOTAL:		0.01	0.03	0.00



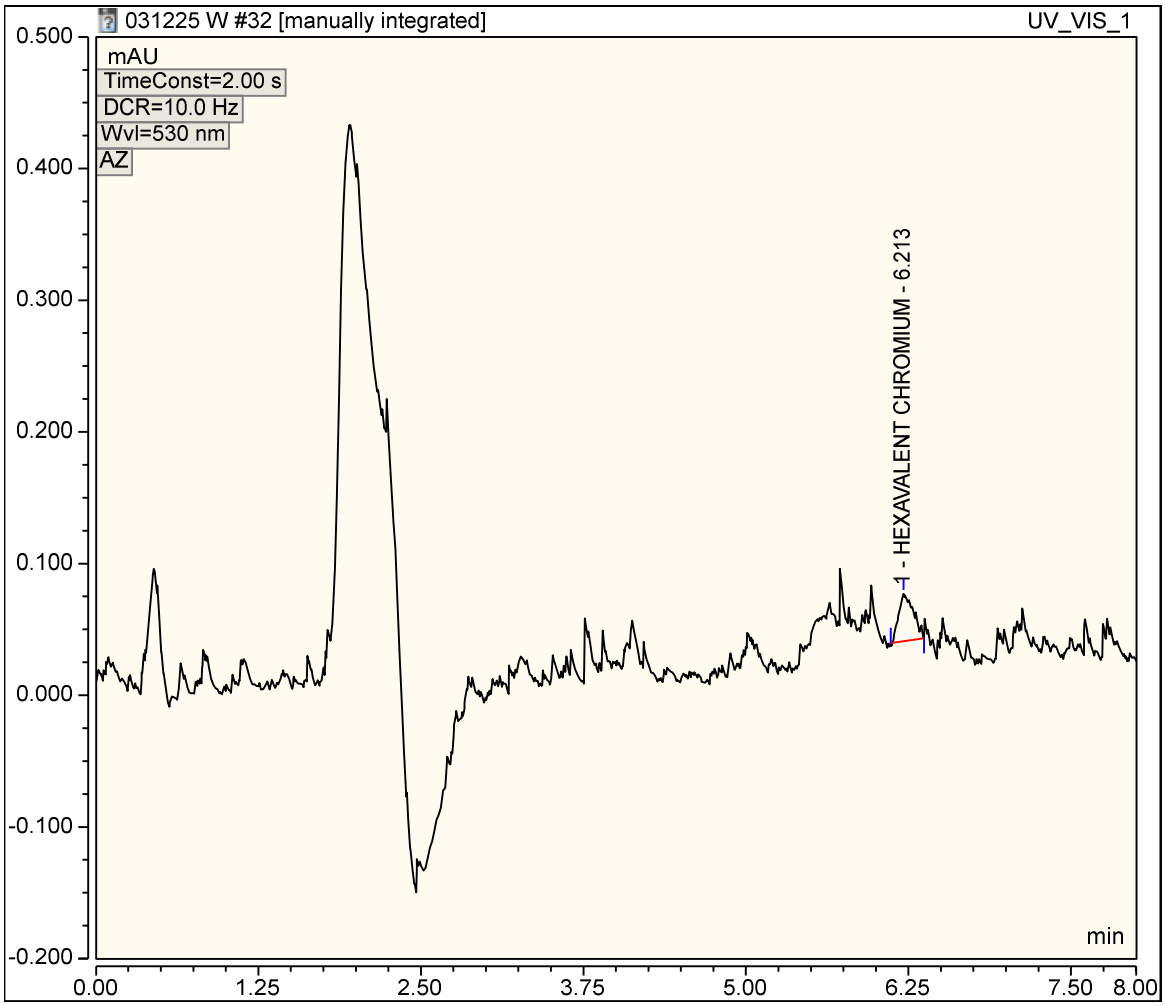
Sample Name:	**L1835142-03 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 02:58**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.55	HEXAVALENT CHROMIUM	BMB	0.001	0.028	0.4139
		TOTAL:		0.00	0.03	0.41



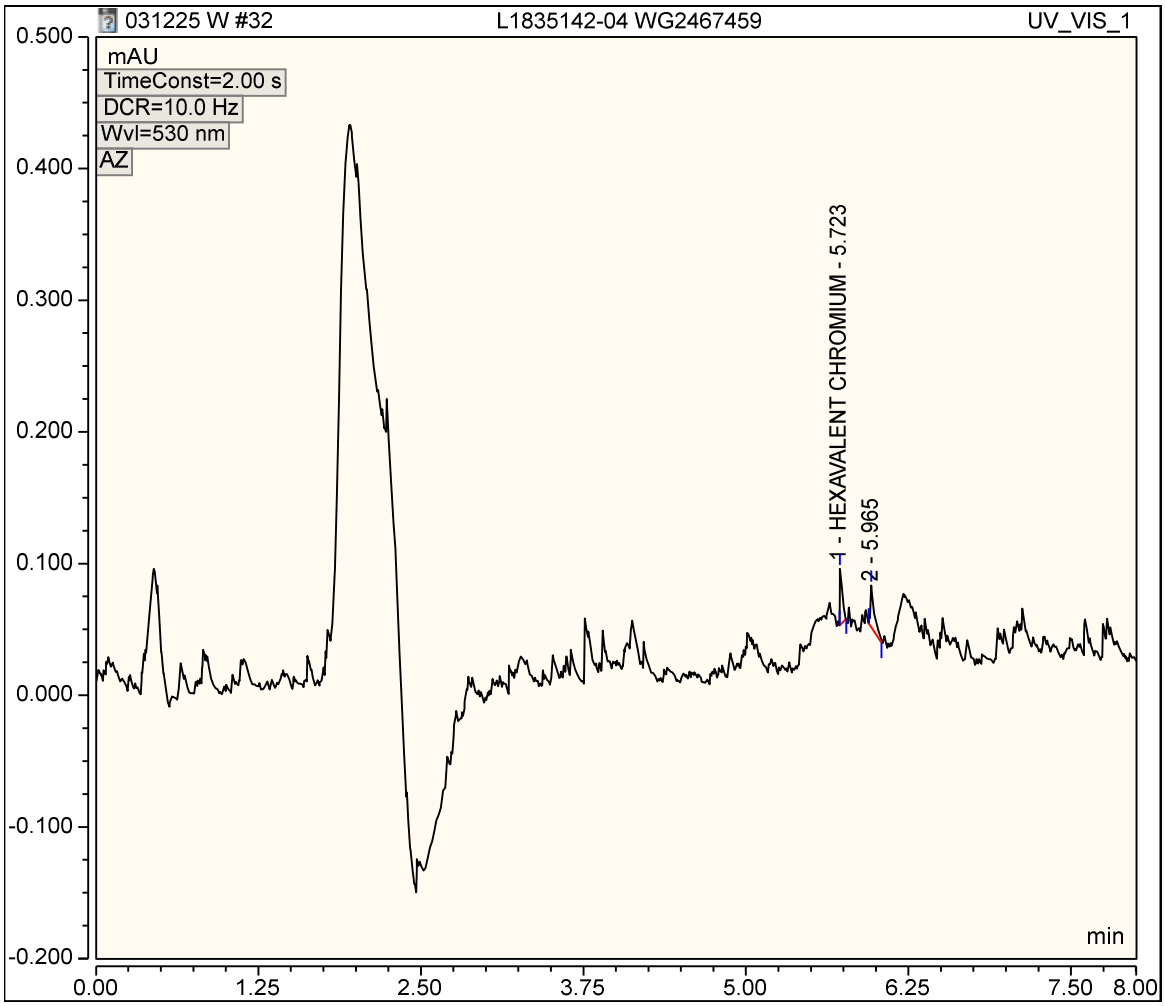
Sample Name:	**L1835142-04 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:09**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.21	HEXAVALENT CHROMIUM	BMB*	0.005	0.036	n.a.
		TOTAL:		0.00	0.04	0.00



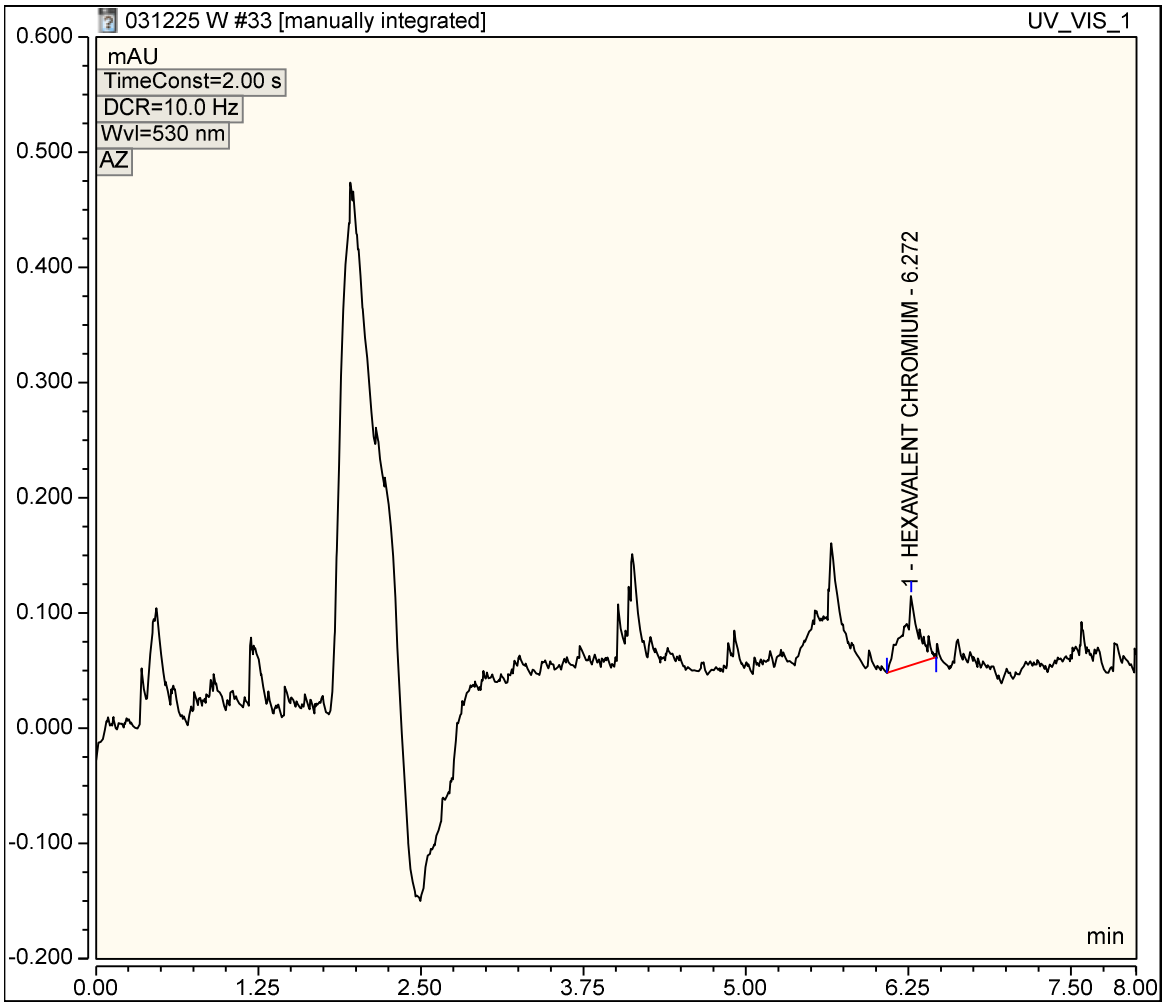
Sample Name:	**L1835142-04 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:09**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.72	HEXAVALENT CHROMIUM	BMB	0.001	0.043	0.4364
		TOTAL:		0.00	0.04	0.44



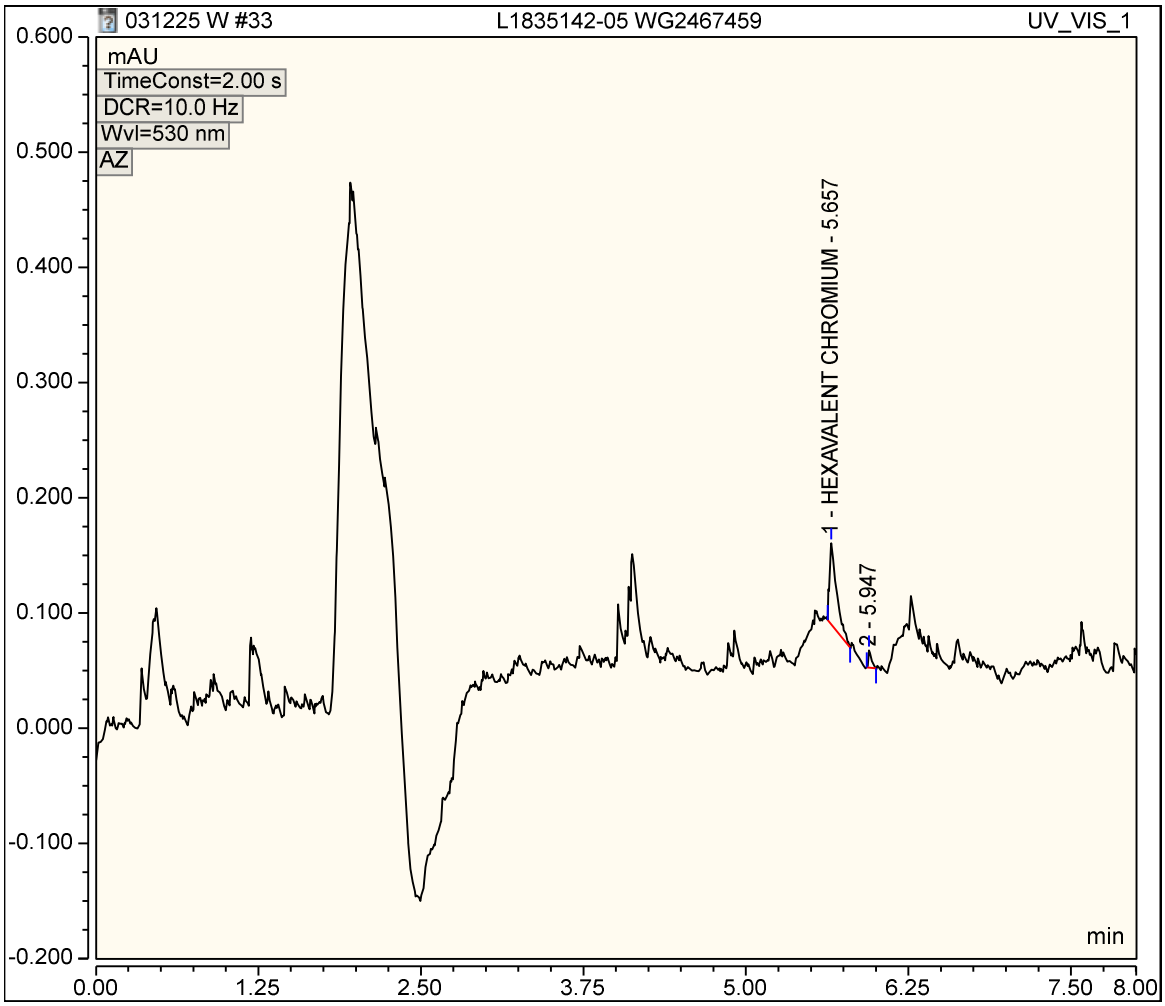
Sample Name:	**L1835142-05 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:20**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.27	HEXAVALENT CHROMIUM	BMB*	0.009	0.060	0.0011
		TOTAL:		0.01	0.06	0.00



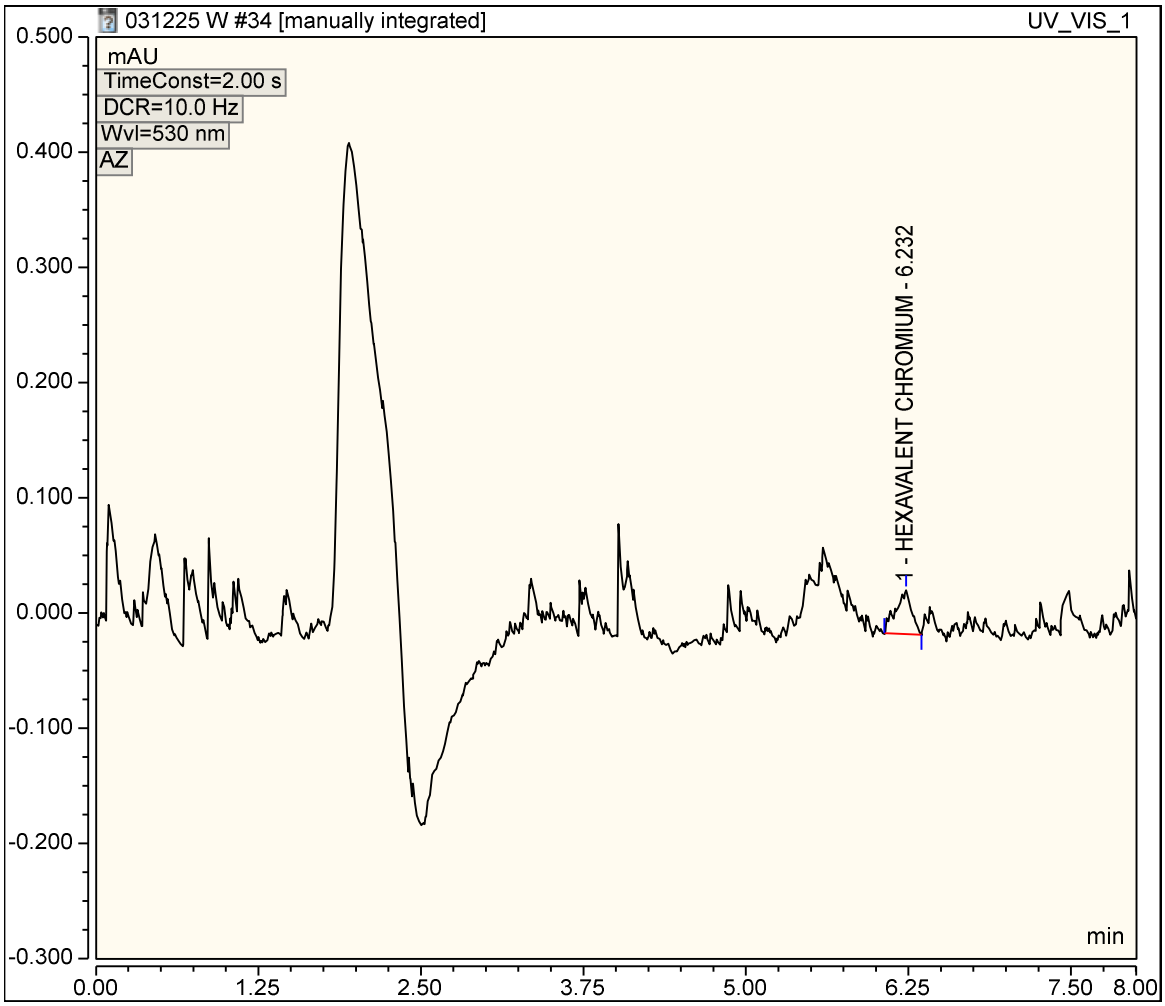
Sample Name:	**L1835142-05 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:20**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.66	HEXAVALENT CHROMIUM	BMB	0.004	0.071	2.6373
		TOTAL:		0.00	0.07	2.64



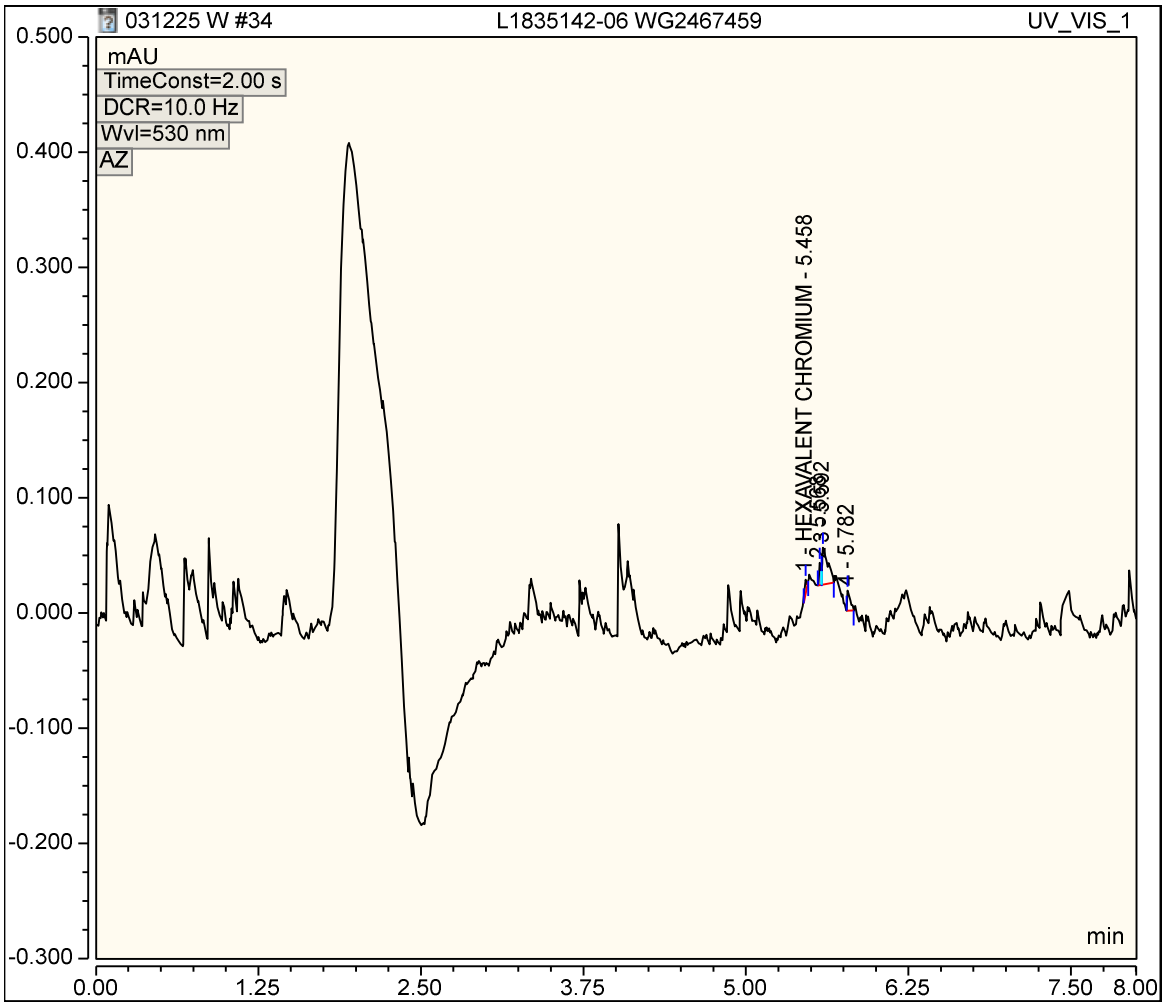
Sample Name:	**L1835142-06 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:30**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	0.005	0.038	n.a.
		TOTAL:		0.01	0.04	0.00



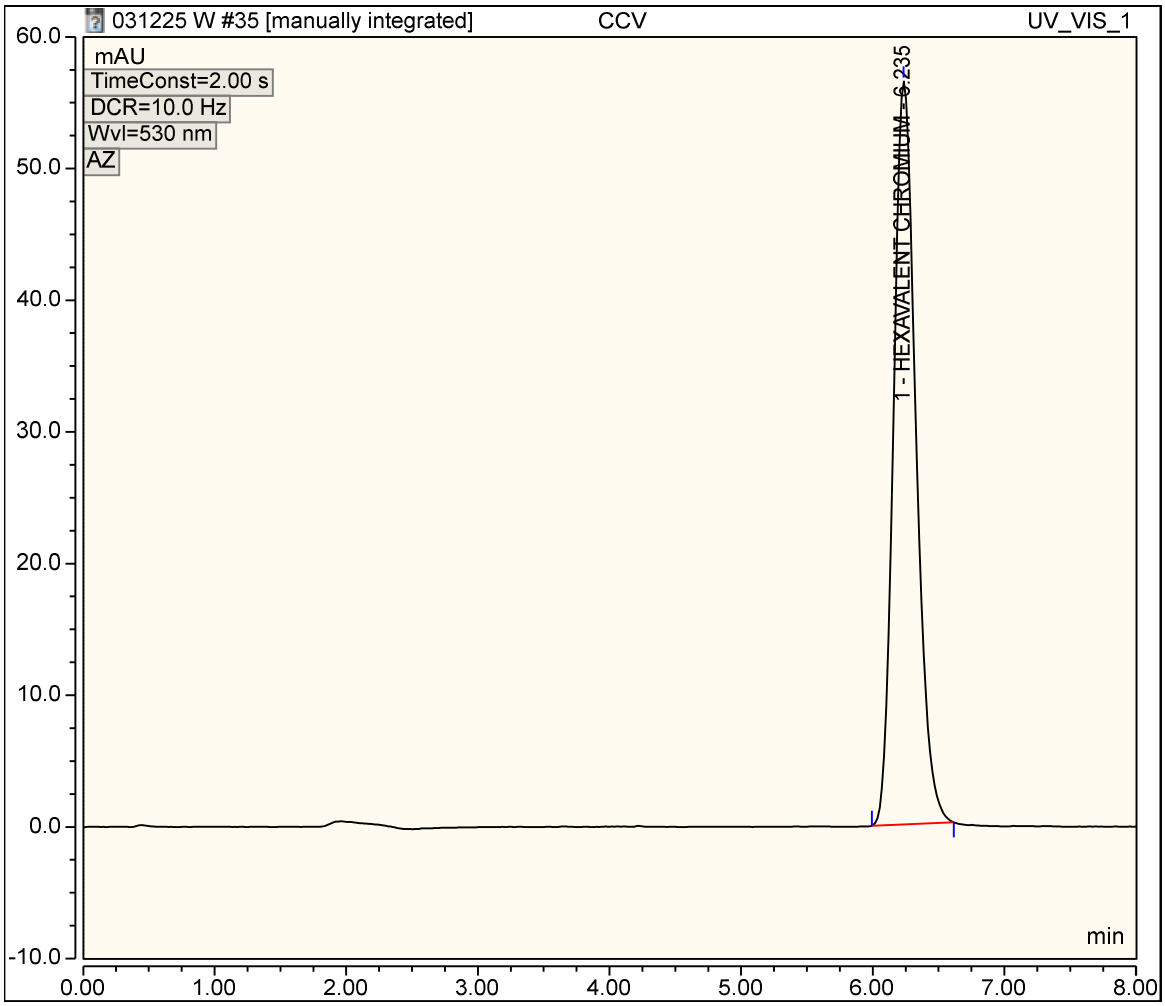
Sample Name:	**L1835142-06 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:30**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.46	HEXAVALENT CHROMIUM	BMB	0.000	0.013	n.a.
		TOTAL:		0.00	0.01	0.00



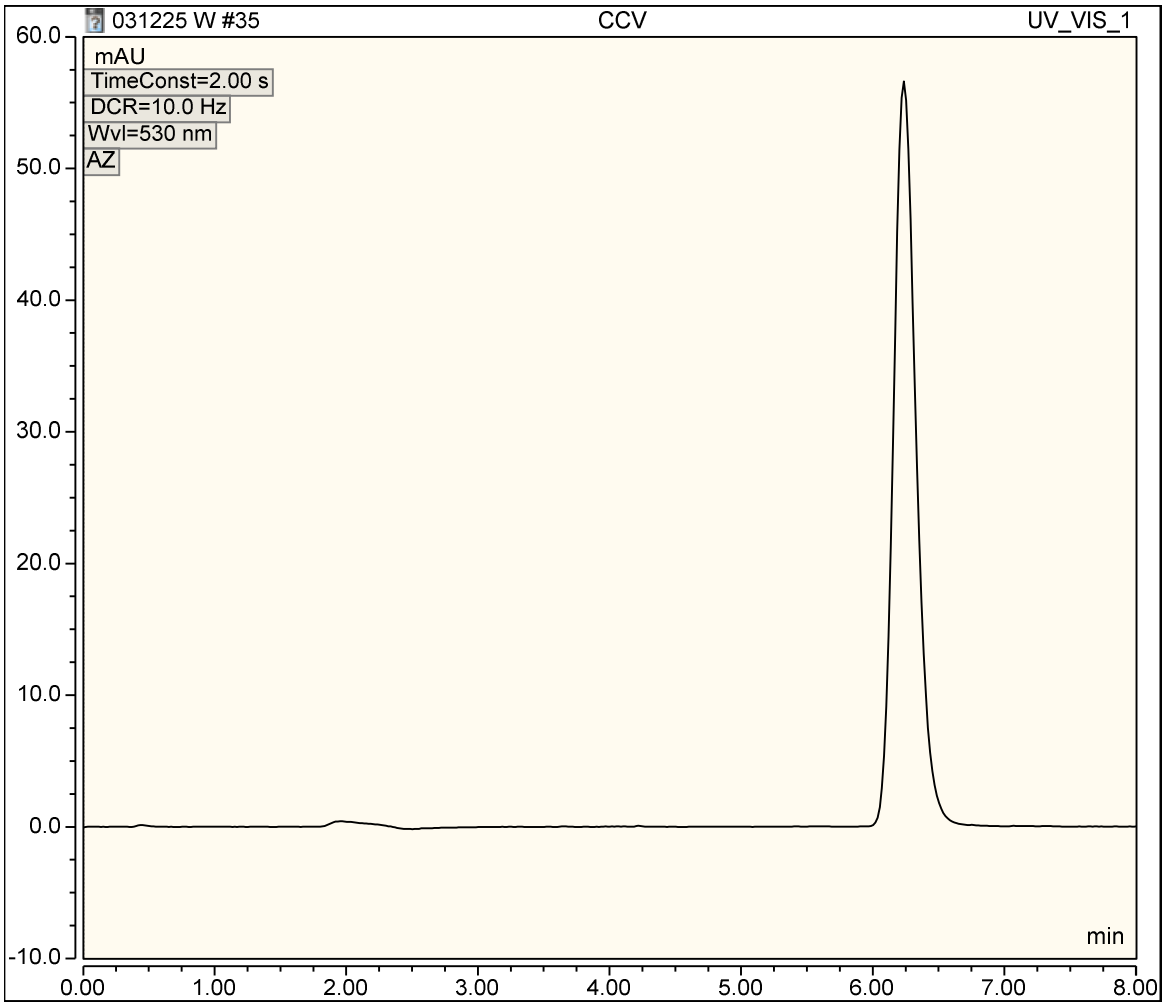
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:41**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	11.136	56.422	48.6689
		TOTAL:		11.14	56.42	48.67



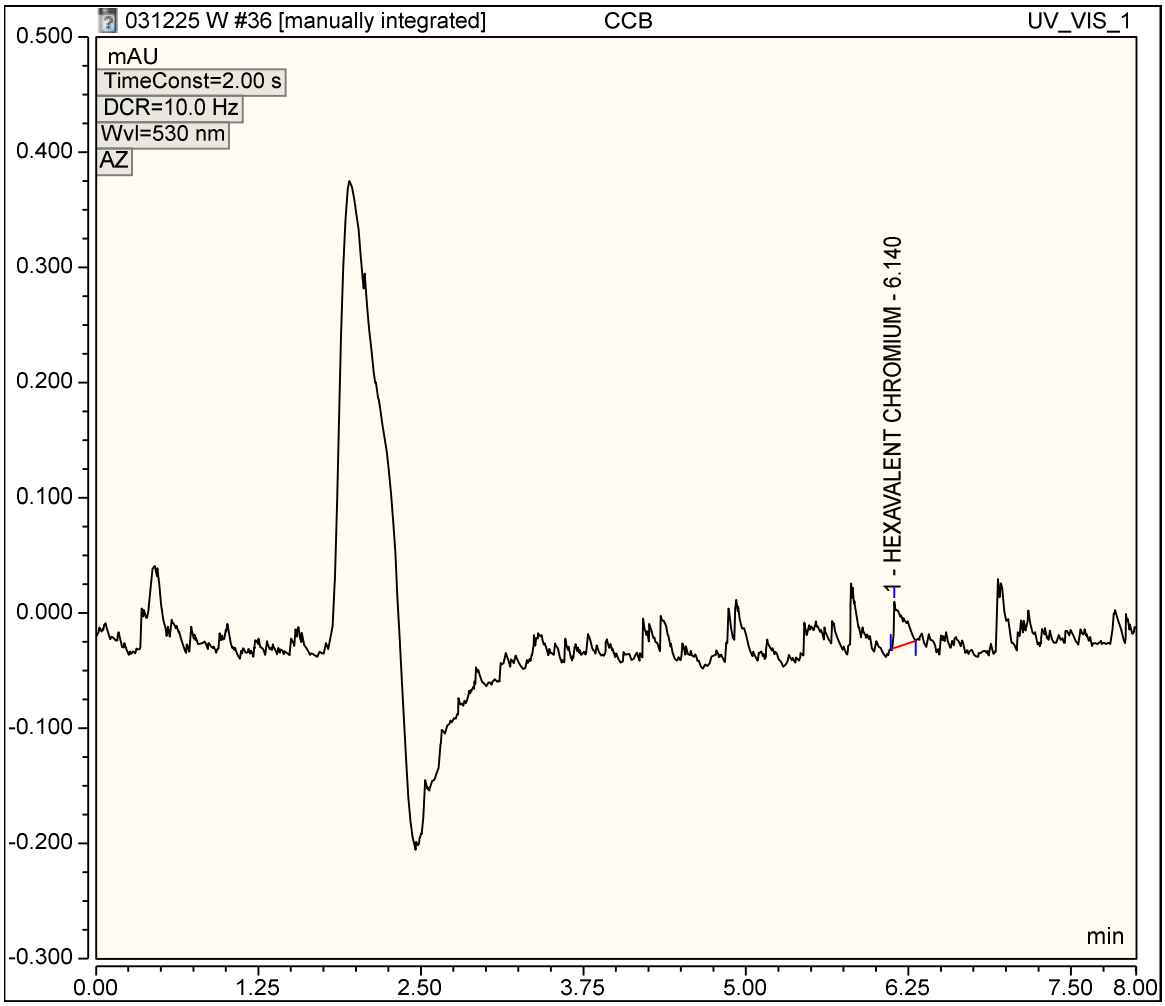
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:41**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



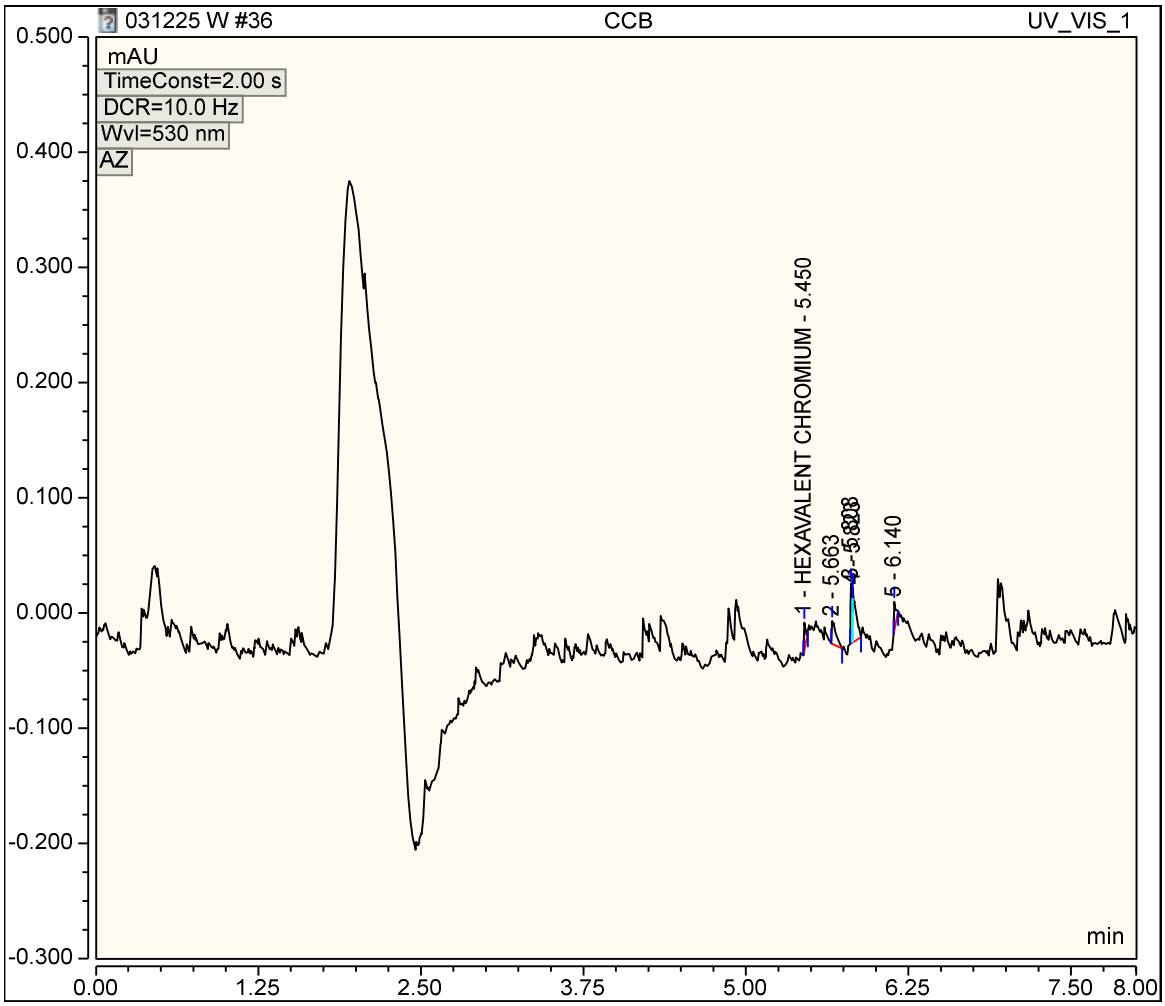
Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:52**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.14	HEXAVALENT CHROMIUM	BMB*	0.003	0.040	n.a.
		TOTAL:		0.00	0.04	0.00



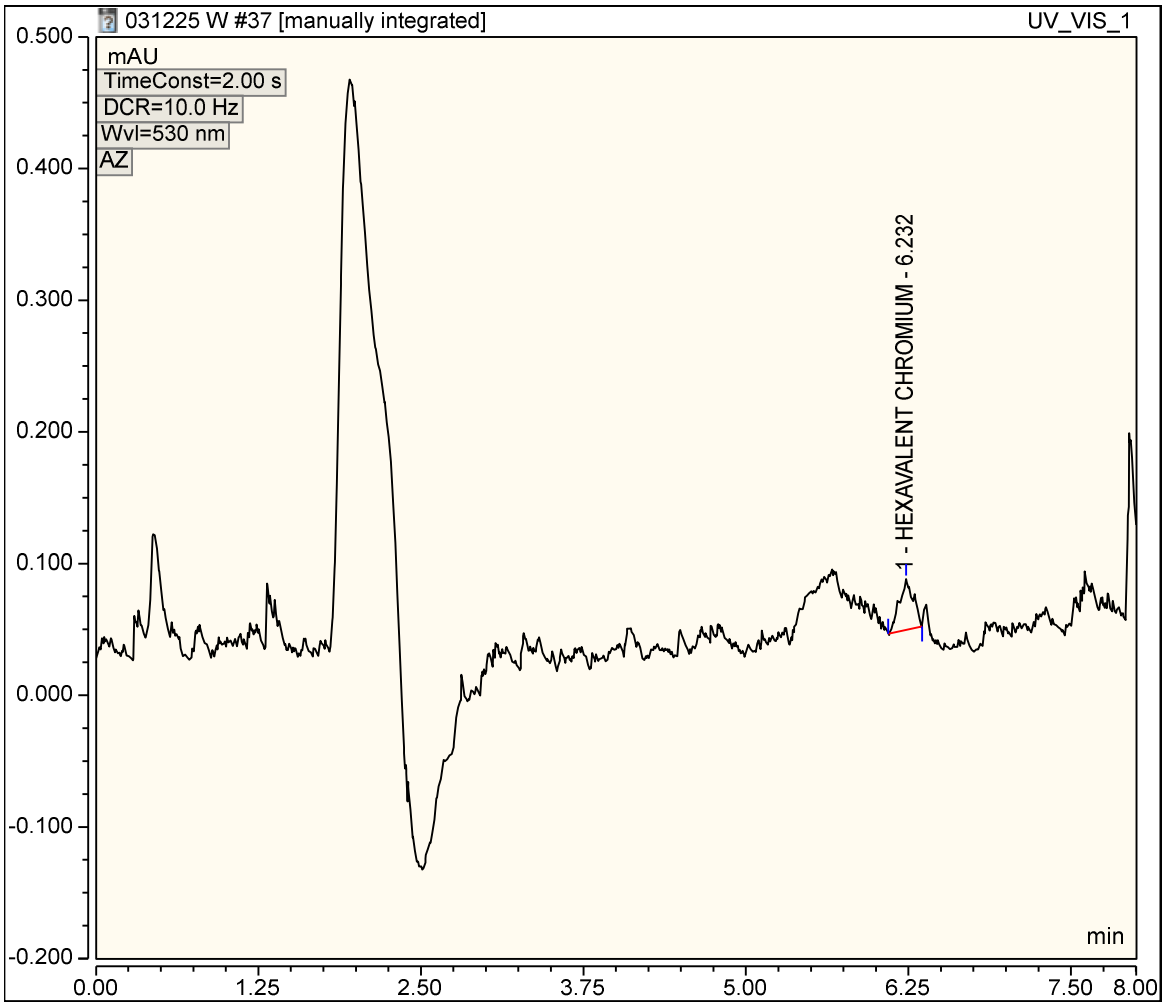
Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 03:52**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.45	HEXAVALENT CHROMIUM	BMB	0.000	0.024	0.0629
		TOTAL:		0.00	0.02	0.06



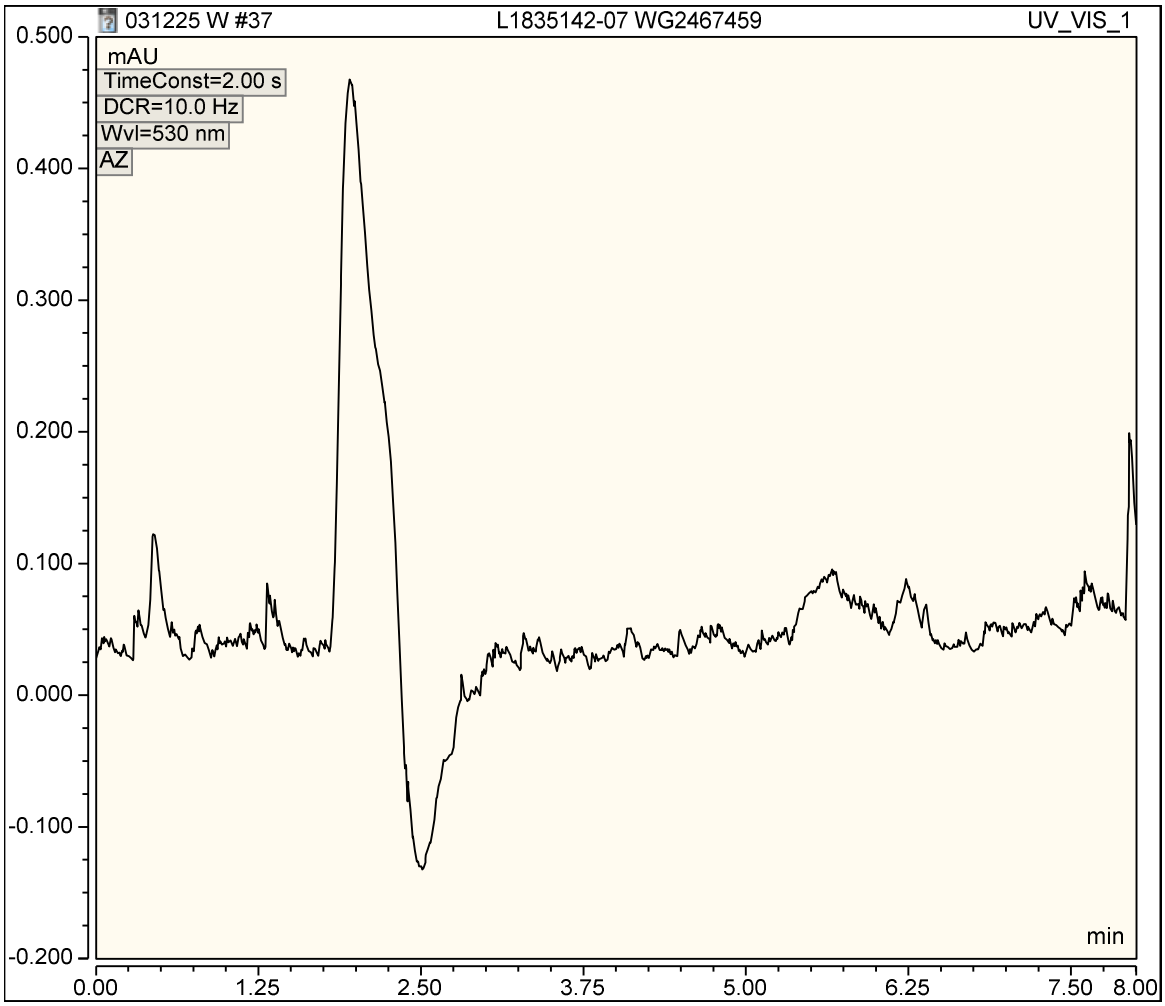
Sample Name:	**L1835142-07 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:03**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	0.005	0.039	n.a.
		TOTAL:		0.00	0.04	0.00



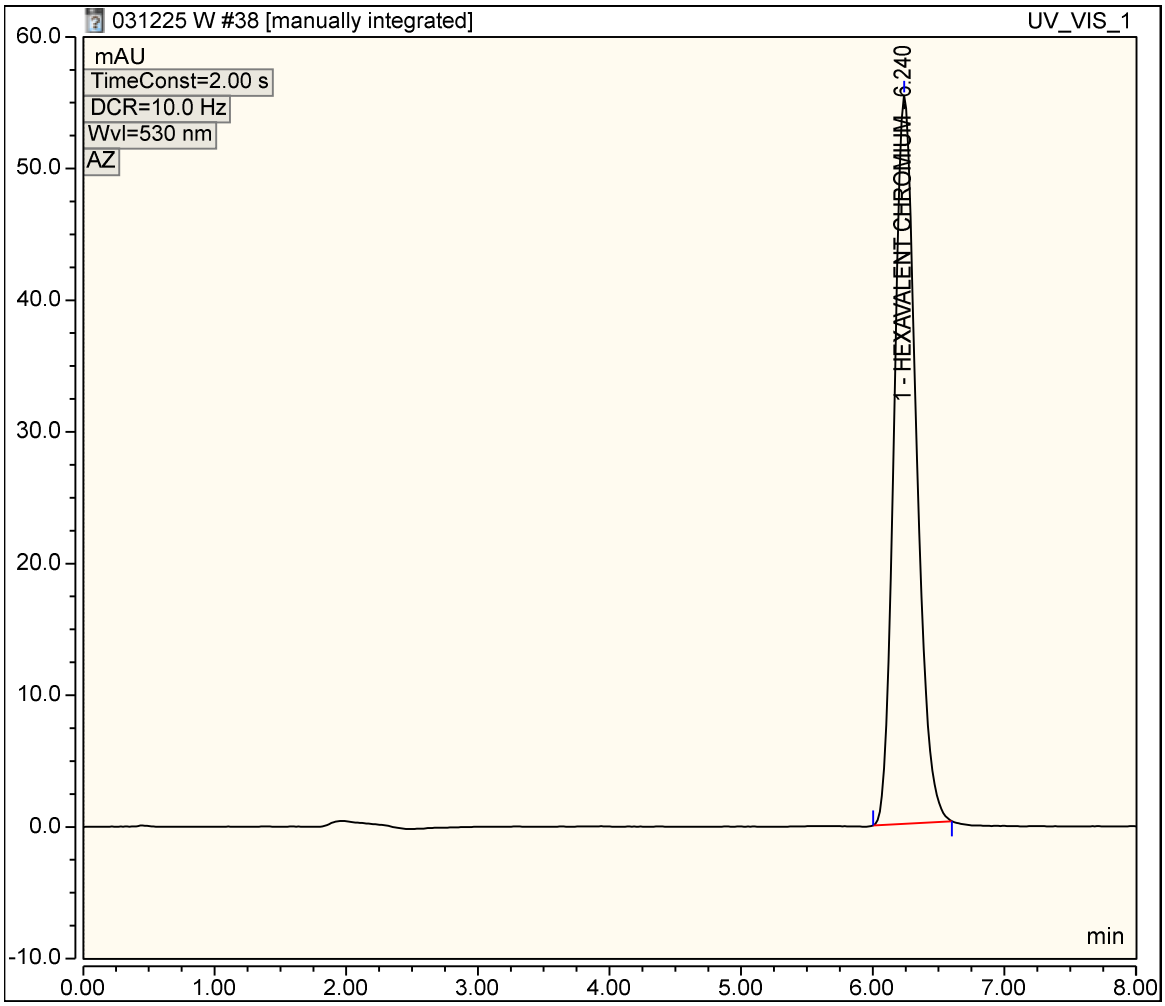
Sample Name:	**L1835142-07 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:03**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



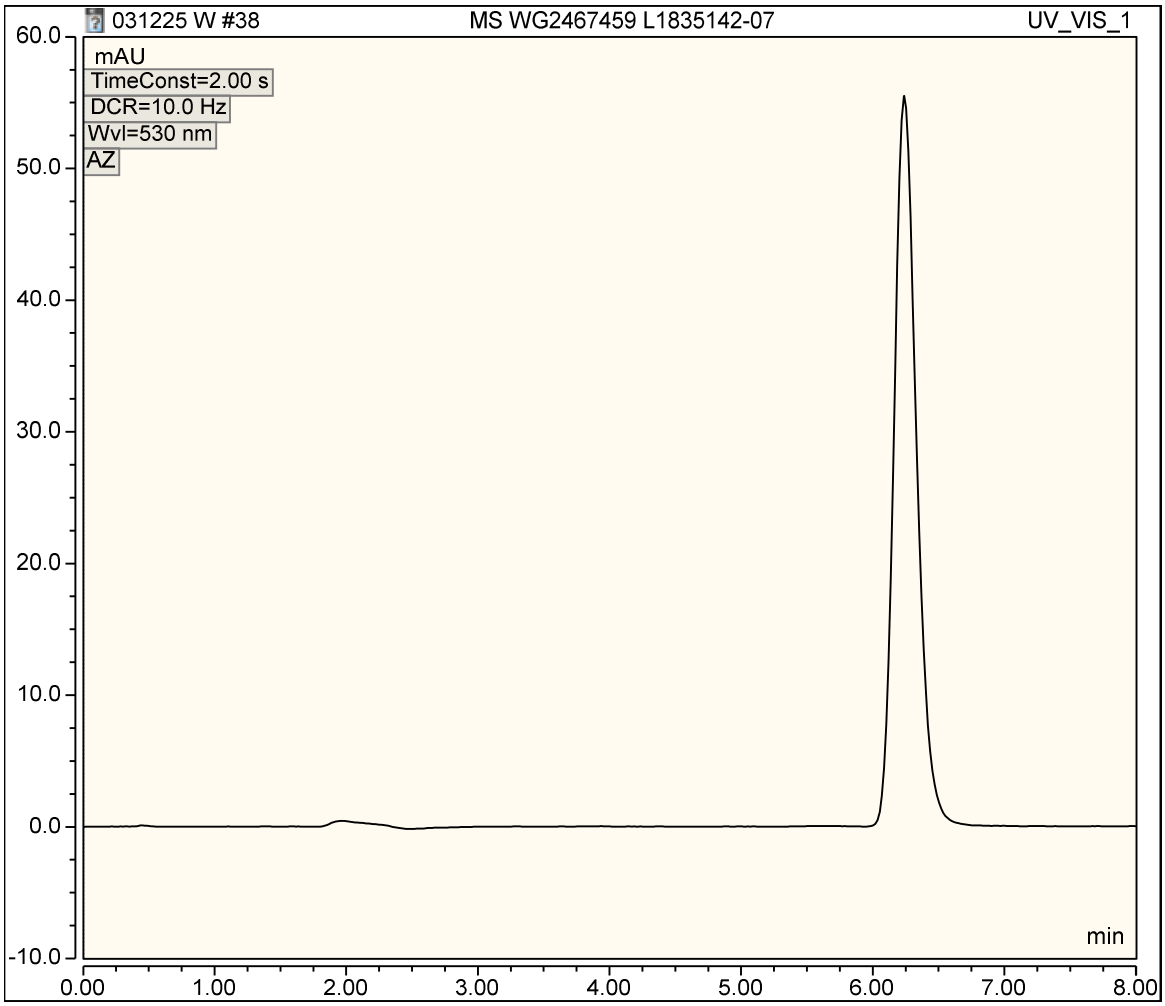
Sample Name:	**MS WG2467459 L1835142-07**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:14**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	HEXAVALENT CHROMIUM	BMB*	10.807	55.275	47.2288
		TOTAL:		10.81	55.28	47.23



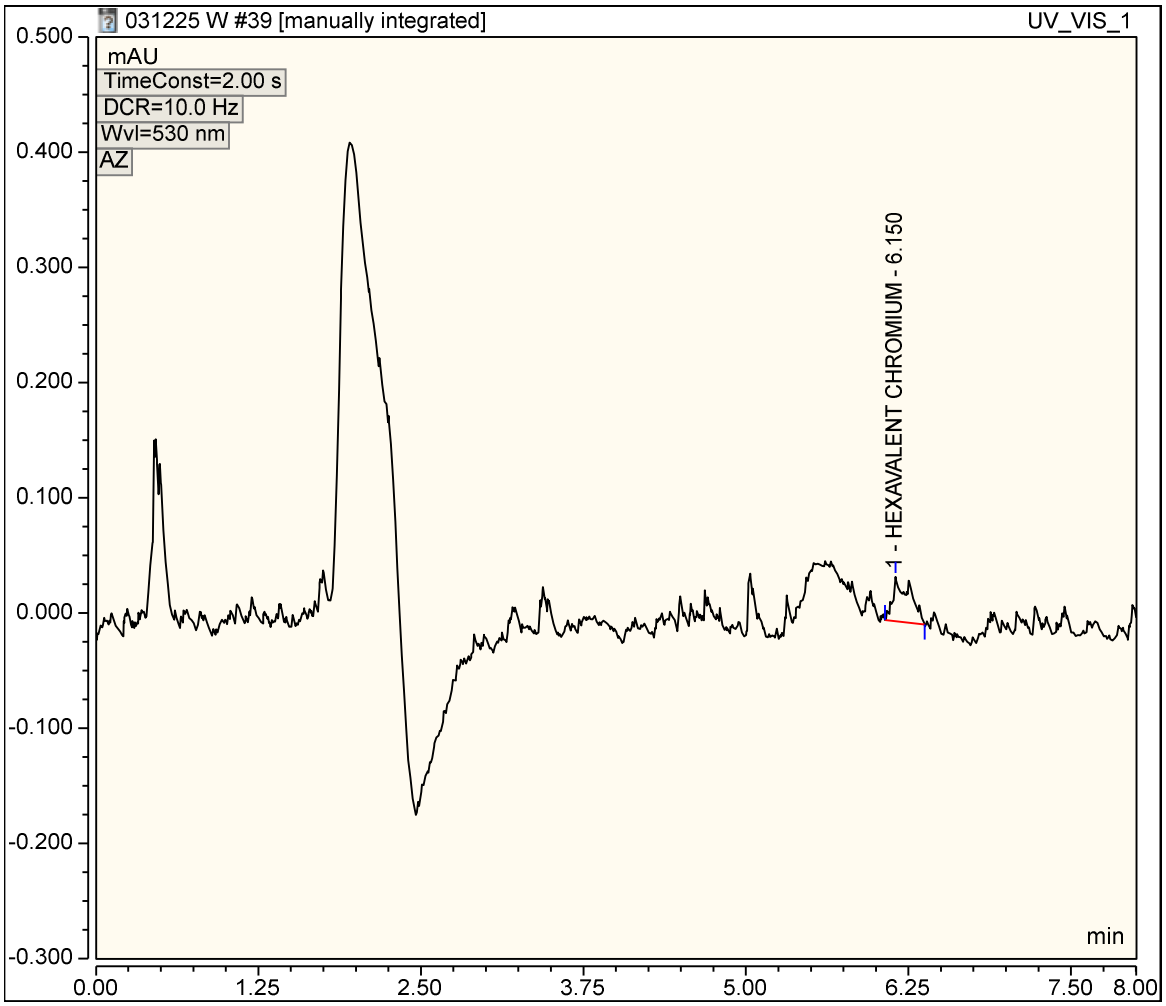
Sample Name:	**MS WG2467459 L1835142-07**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:14**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



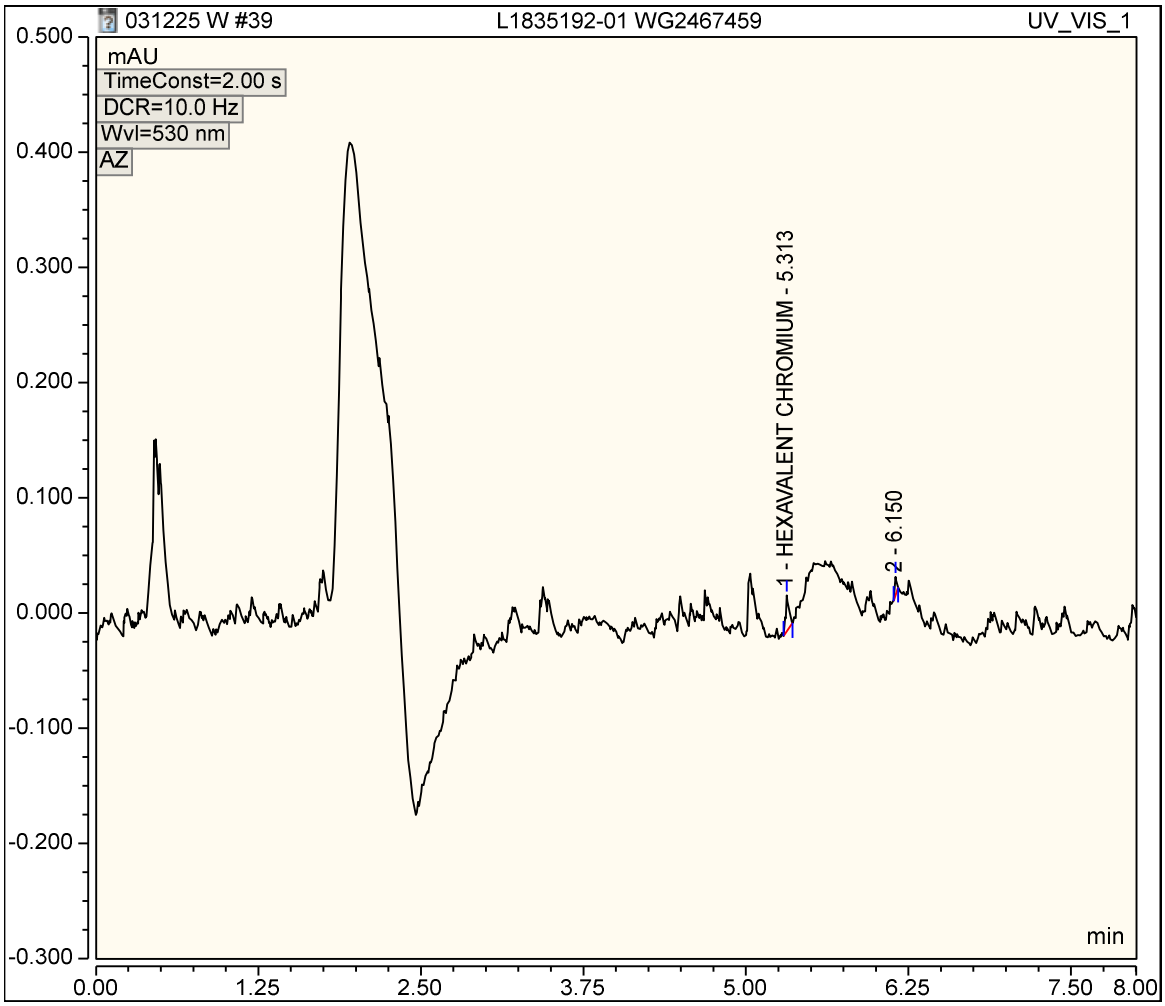
Sample Name:	**L1835192-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:25**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.15	HEXAVALENT CHROMIUM	BMB*	0.006	0.038	n.a.
		TOTAL:		0.01	0.04	0.00



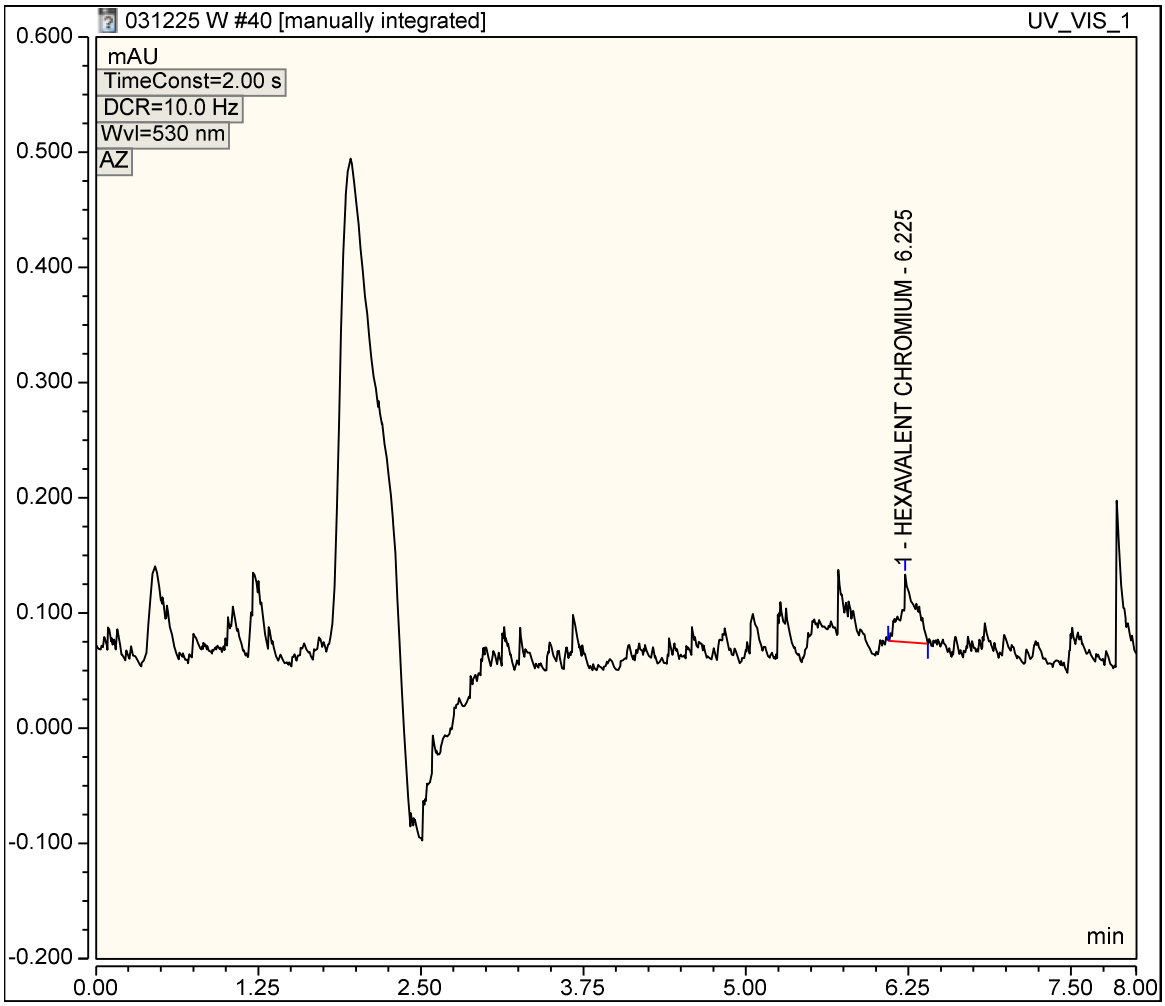
Sample Name:	**L1835192-01 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:25**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.31	HEXAVALENT CHROMIUM	BMB	0.001	0.031	0.4455
		TOTAL:		0.00	0.03	0.45



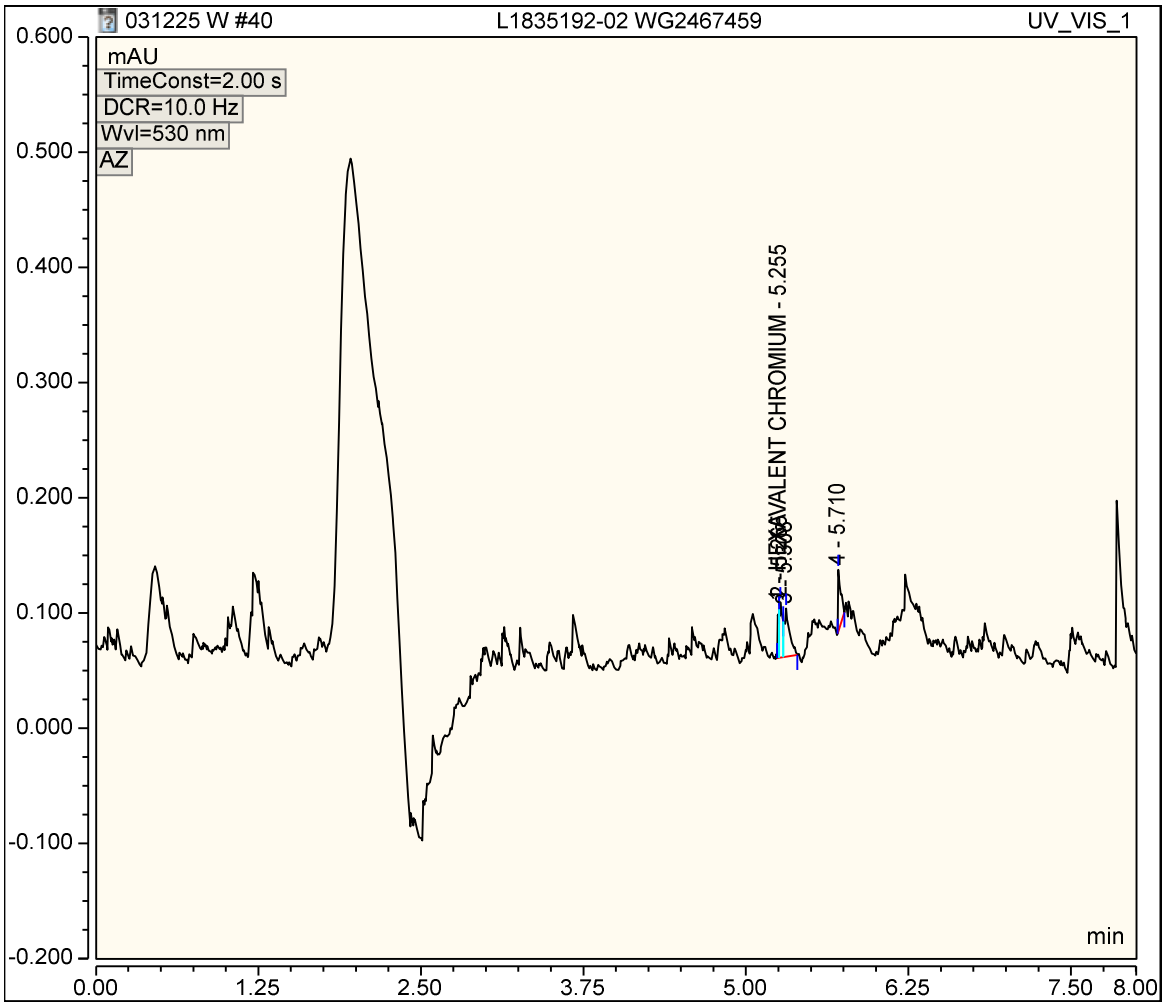
Sample Name:	**L1835192-02 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.22	HEXAVALENT CHROMIUM	BMB*	0.007	0.059	n.a.
		TOTAL:		0.01	0.06	0.00



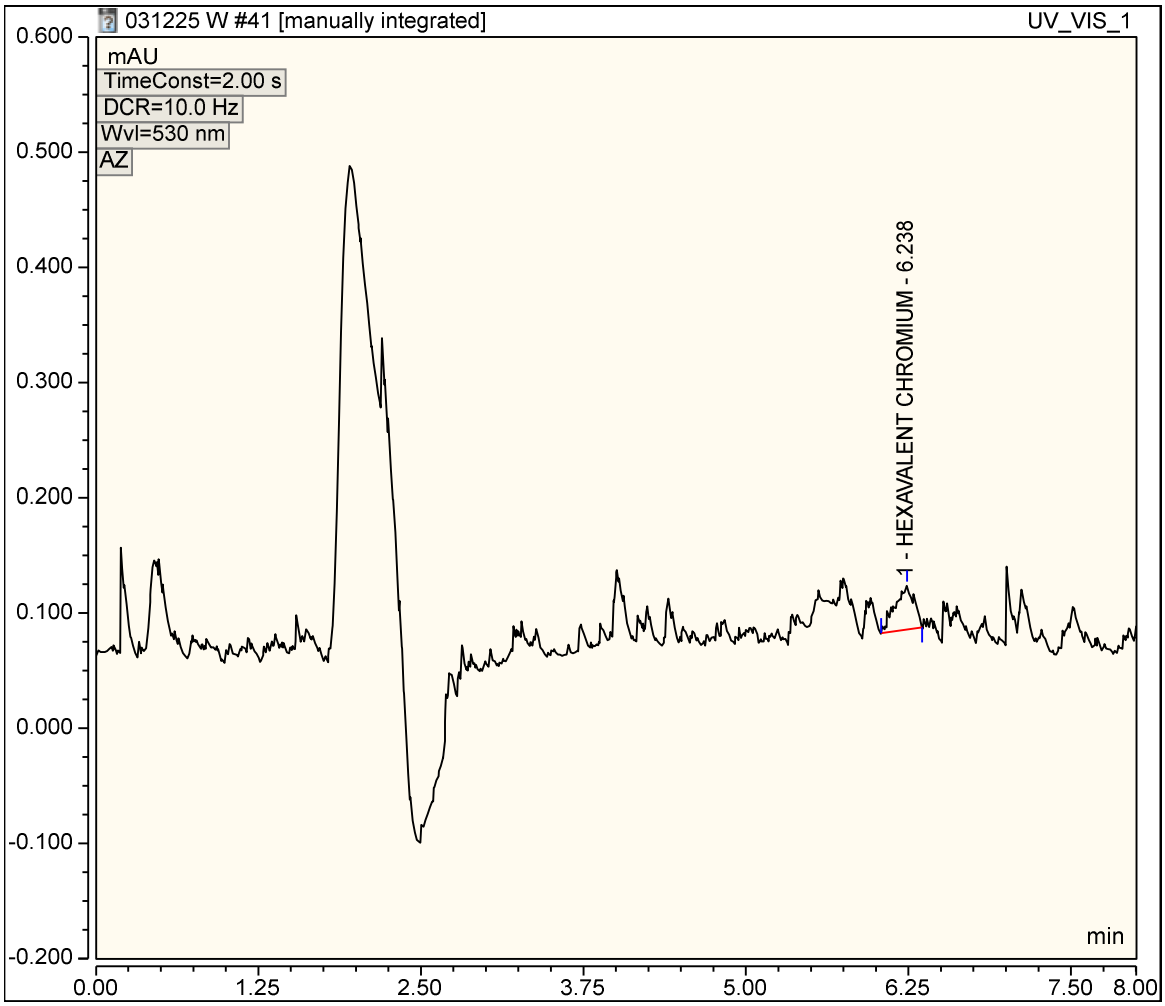
Sample Name:	**L1835192-02 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:36**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.25	HEXAVALENT CHROMIUM	BM	0.000	0.042	0.1282
		TOTAL:		0.00	0.04	0.13



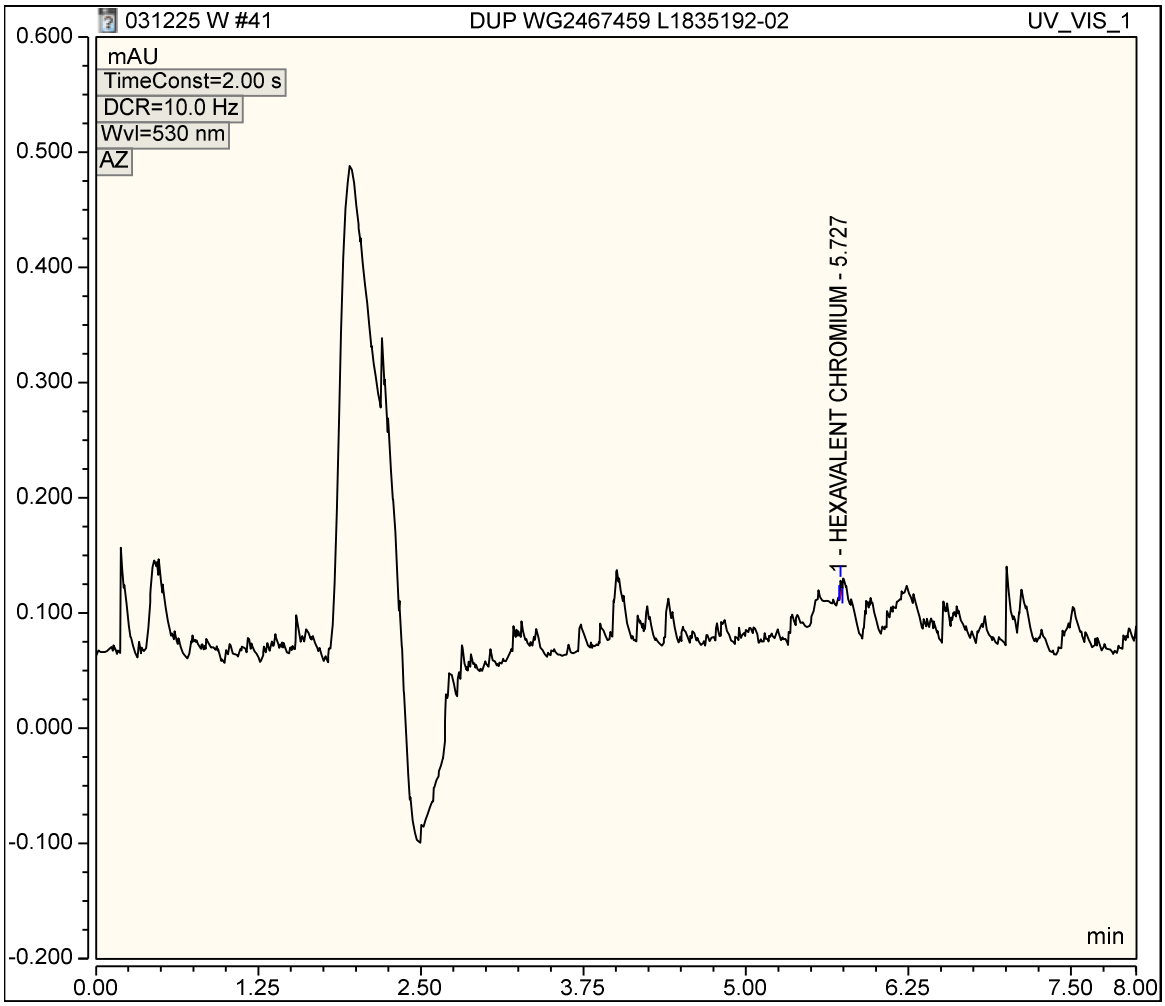
Sample Name:	**DUP WG2467459 L1835192-02**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:47**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	HEXAVALENT CHROMIUM	BMB*	0.006	0.038	n.a.
		TOTAL:		0.01	0.04	0.00



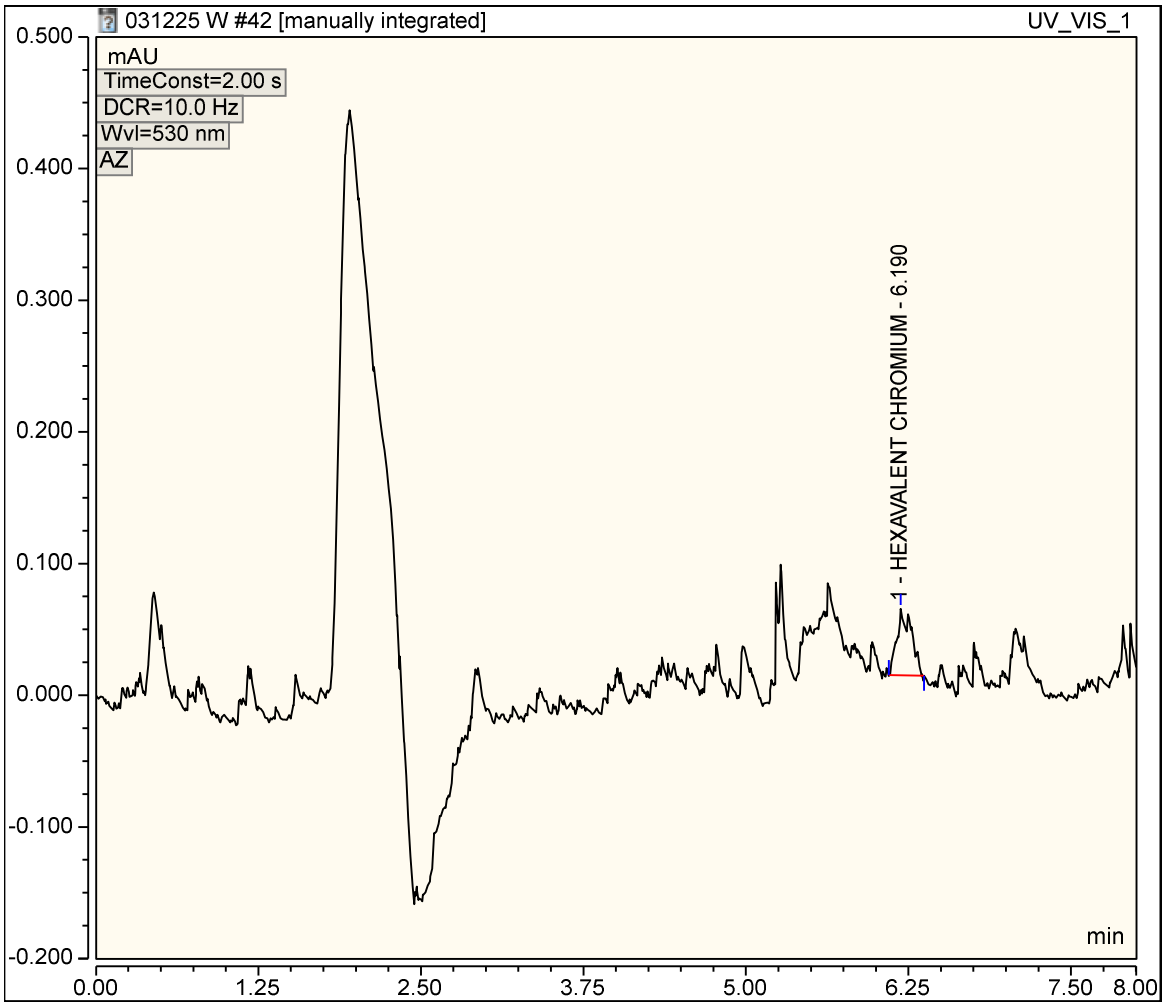
Sample Name:	**DUP WG2467459 L1835192-02**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:47**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.73	HEXAVALENT CHROMIUM	BMB	0.000	0.013	n.a.
		TOTAL:		0.00	0.01	0.00



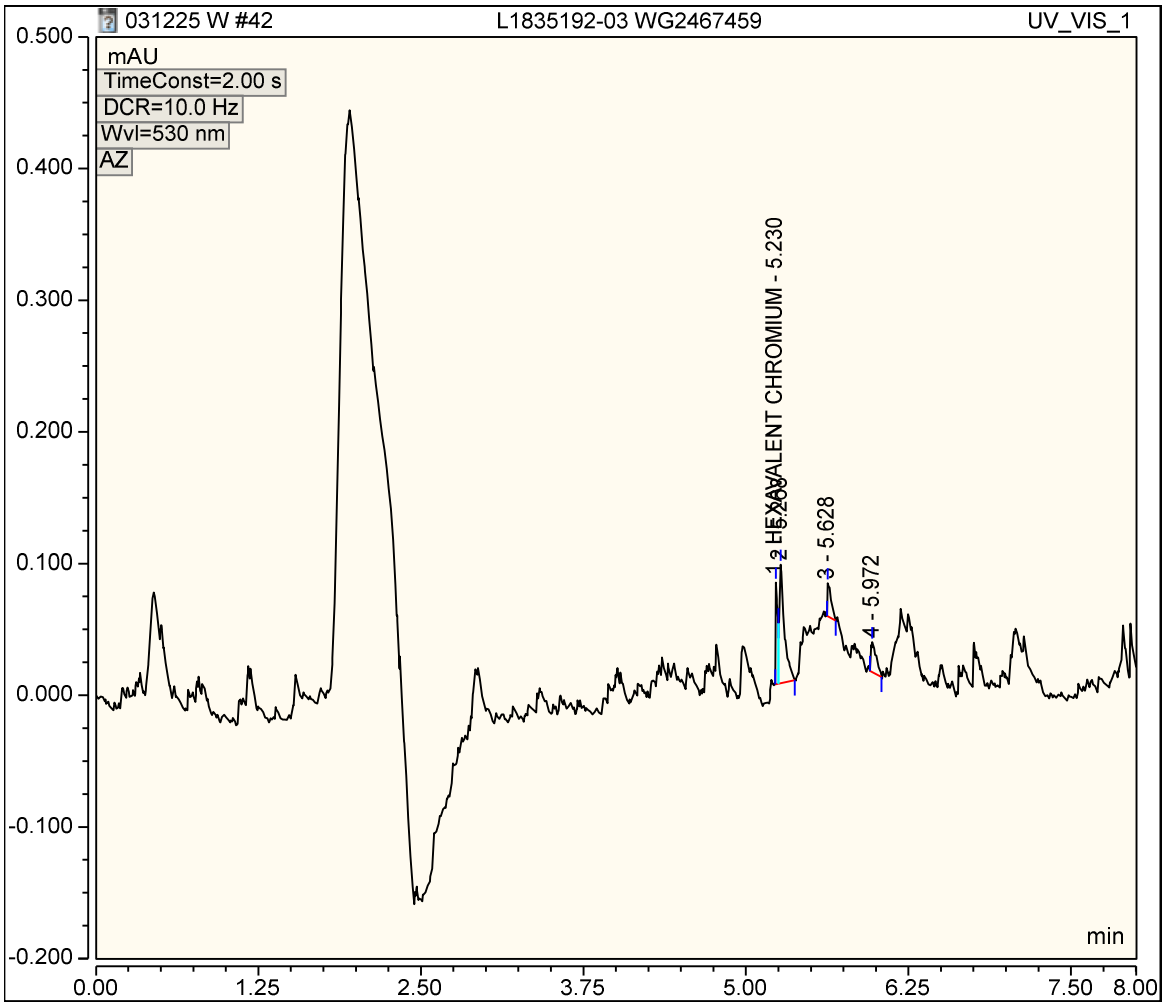
Sample Name:	**L1835192-03 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:58**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.19	HEXAVALENT CHROMIUM	BMB*	0.007	0.050	n.a.
		TOTAL:		0.01	0.05	0.00



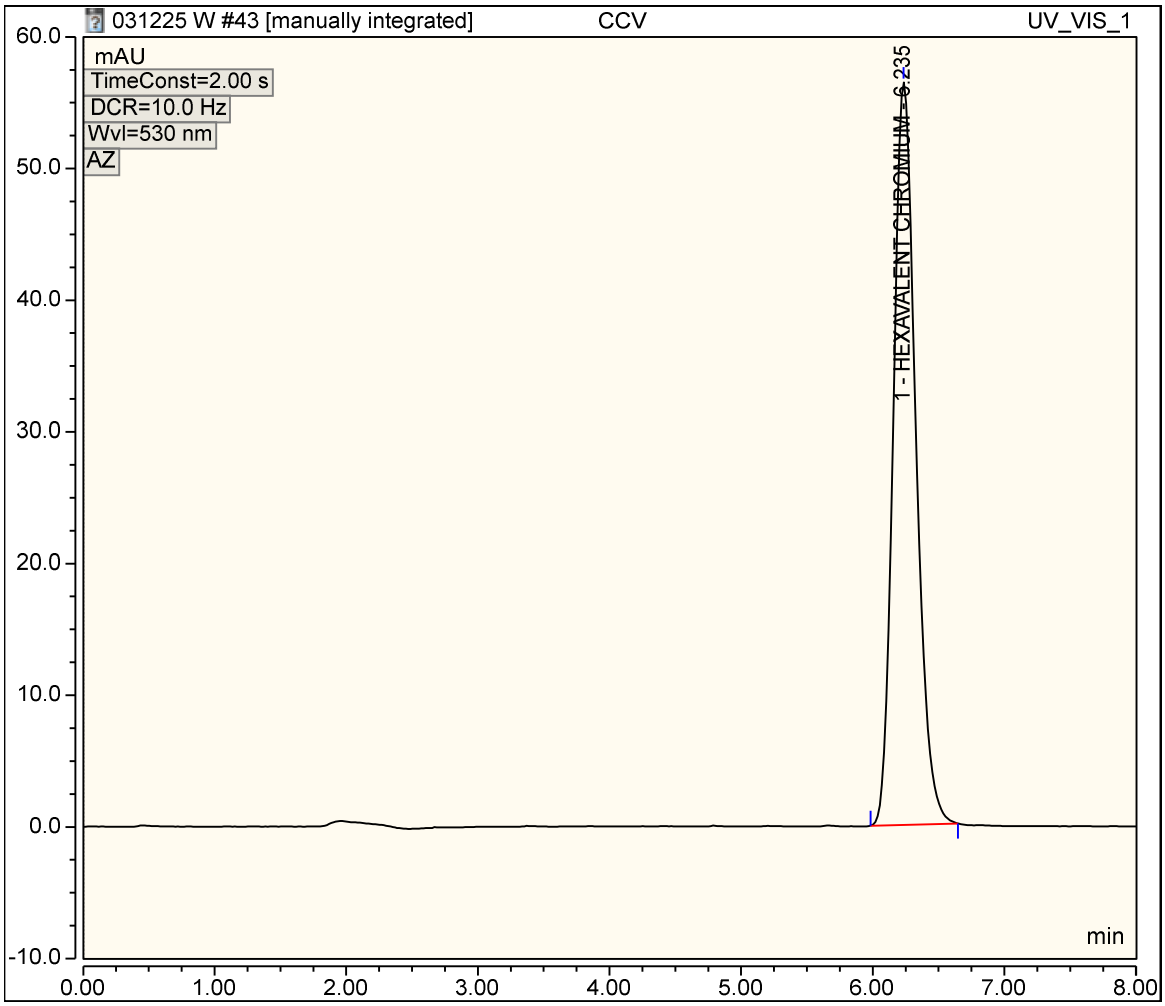
Sample Name:	**L1835192-03 WG2467459**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 04:58**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.23	HEXAVALENT CHROMIUM	BM	0.001	0.077	0.7451
		TOTAL:		0.00	0.08	0.75



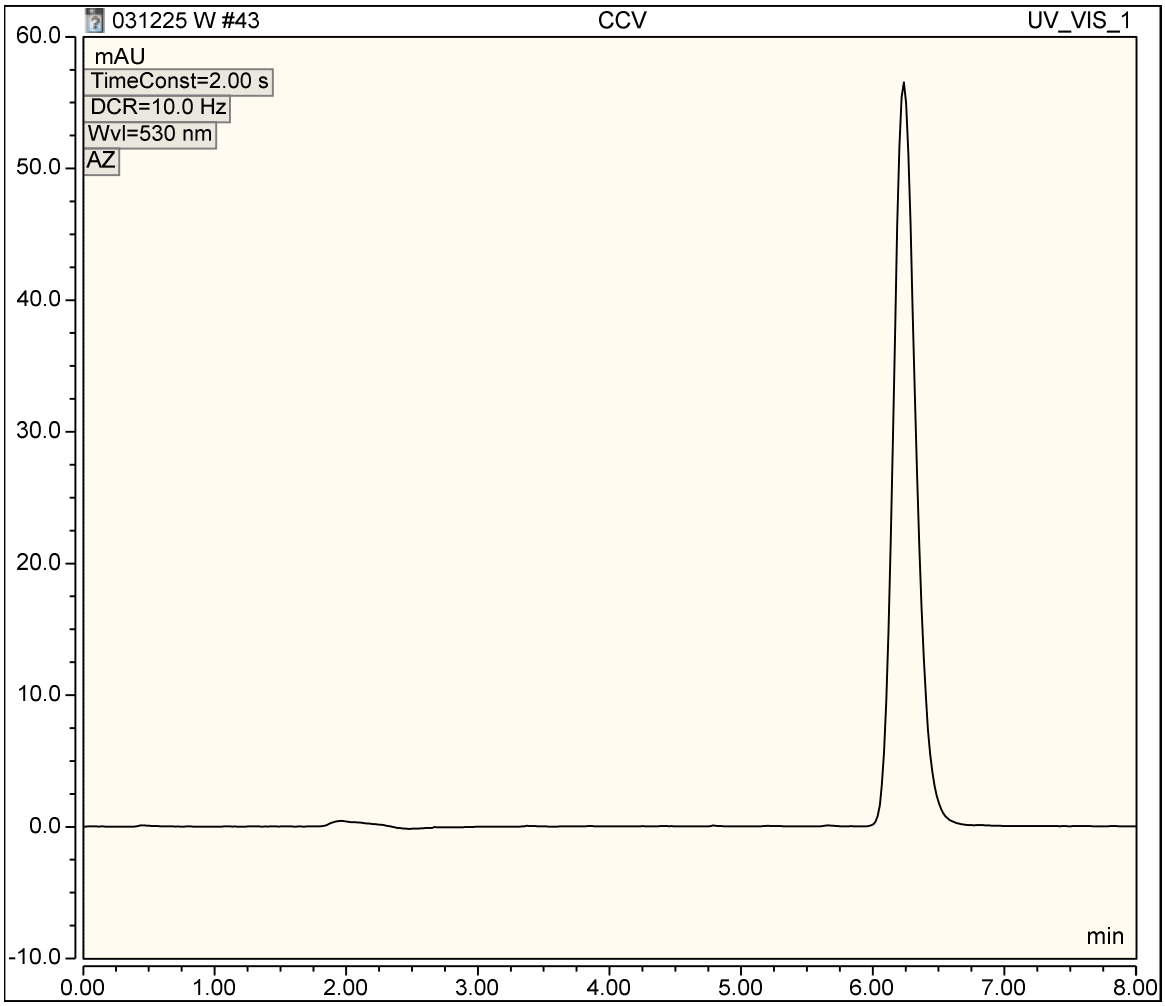
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 05:09**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	11.169	56.395	48.8157
		TOTAL:		11.17	56.39	48.82



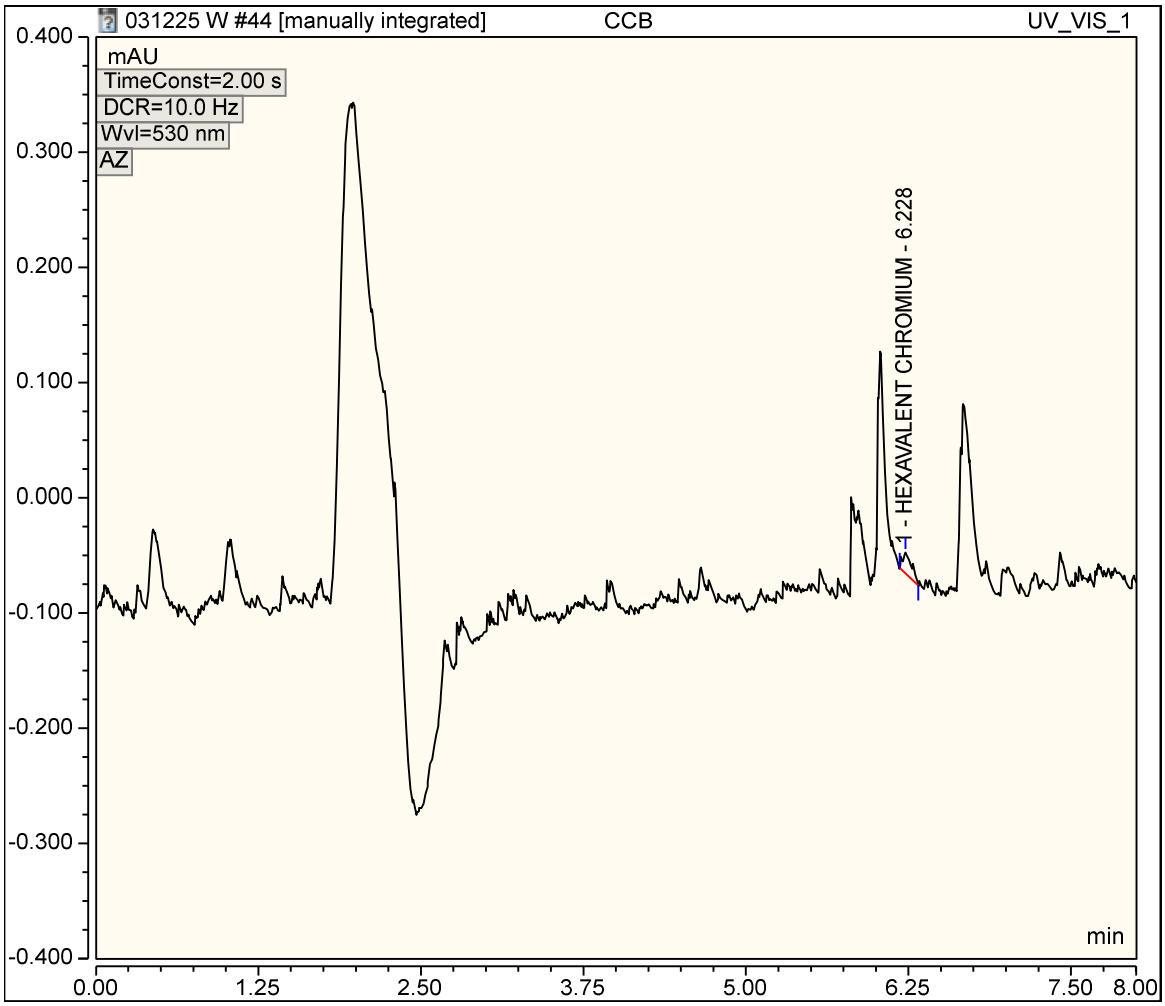
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 05:09**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



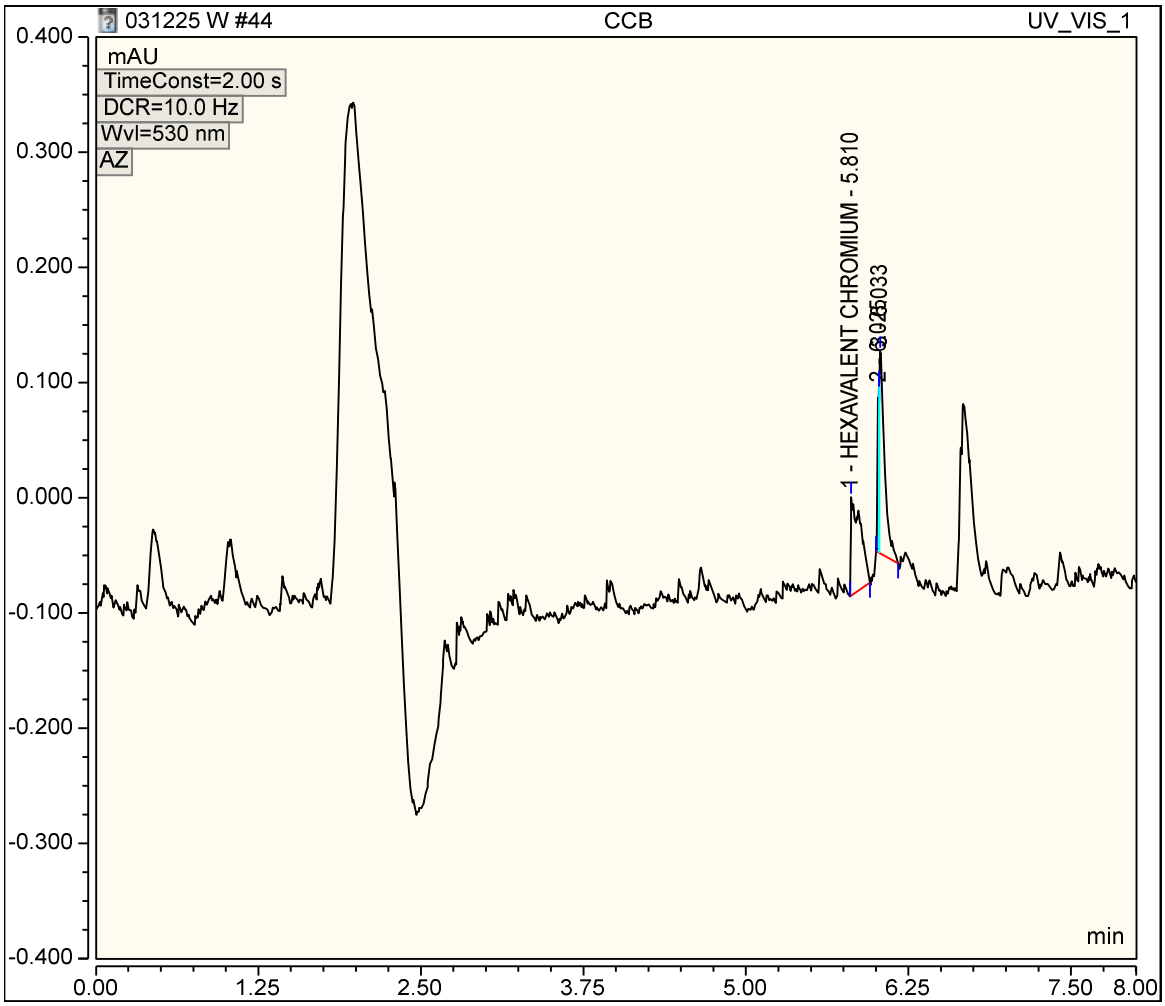
Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 05:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.23	HEXAVALENT CHROMIUM	BMB*	0.001	0.018	n.a.
		TOTAL:		0.00	0.02	0.00



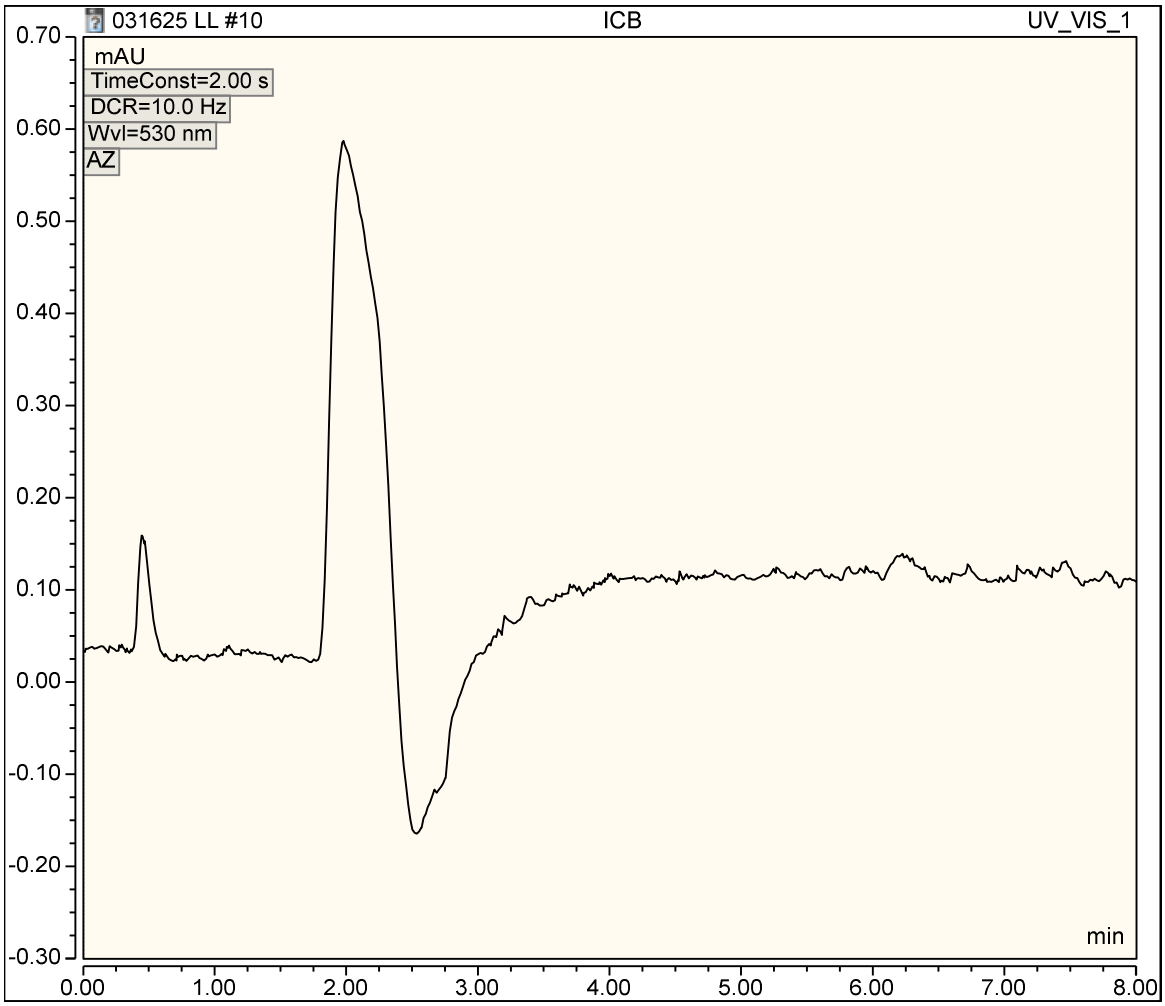
Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/13/25 05:19**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.81	HEXAVALENT CHROMIUM	BMB	0.007	0.085	4.4220
		TOTAL:		0.01	0.09	4.42



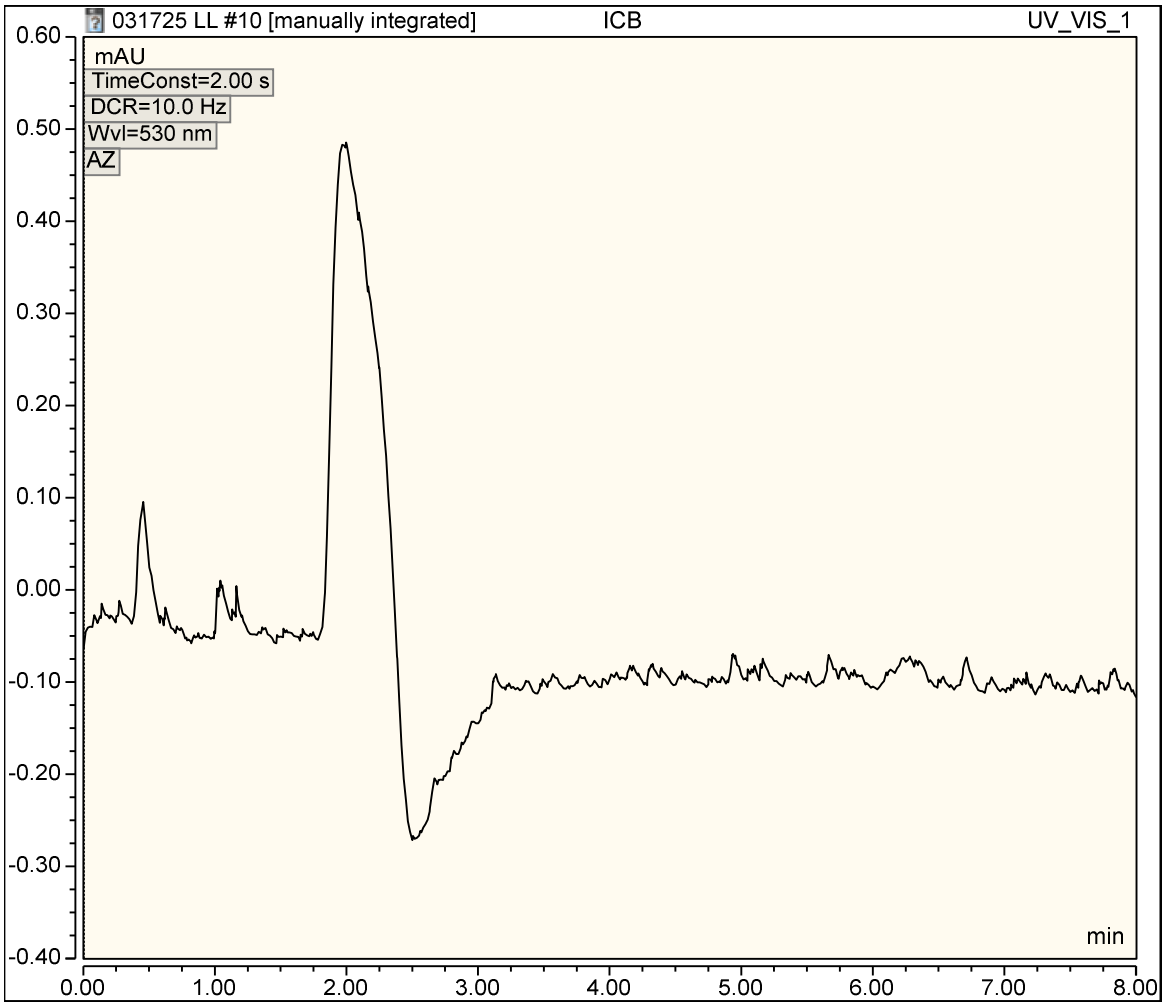
Sample Name:	**ICB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/16/25 17:23**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



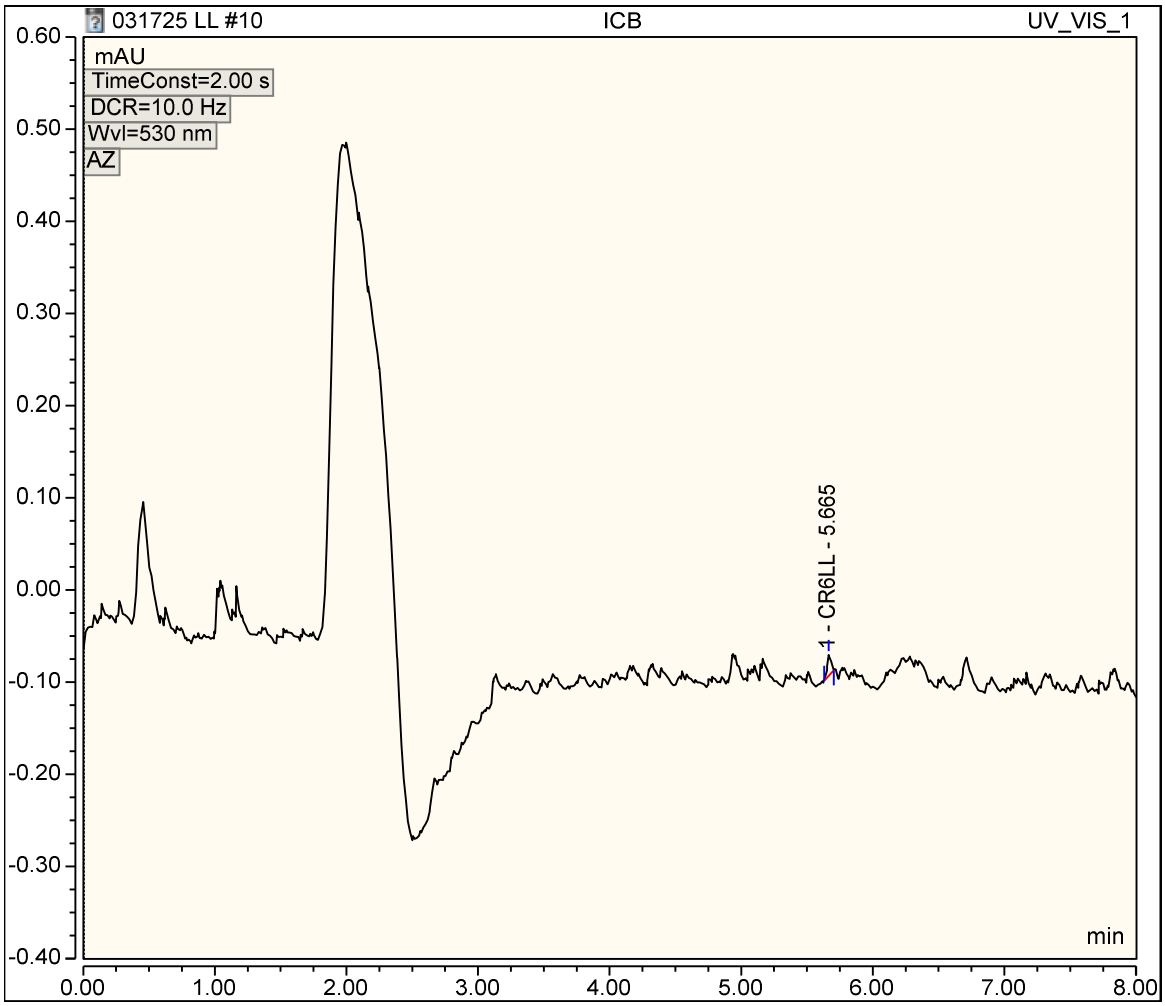
Sample Name:	**ICB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/17/25 09:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



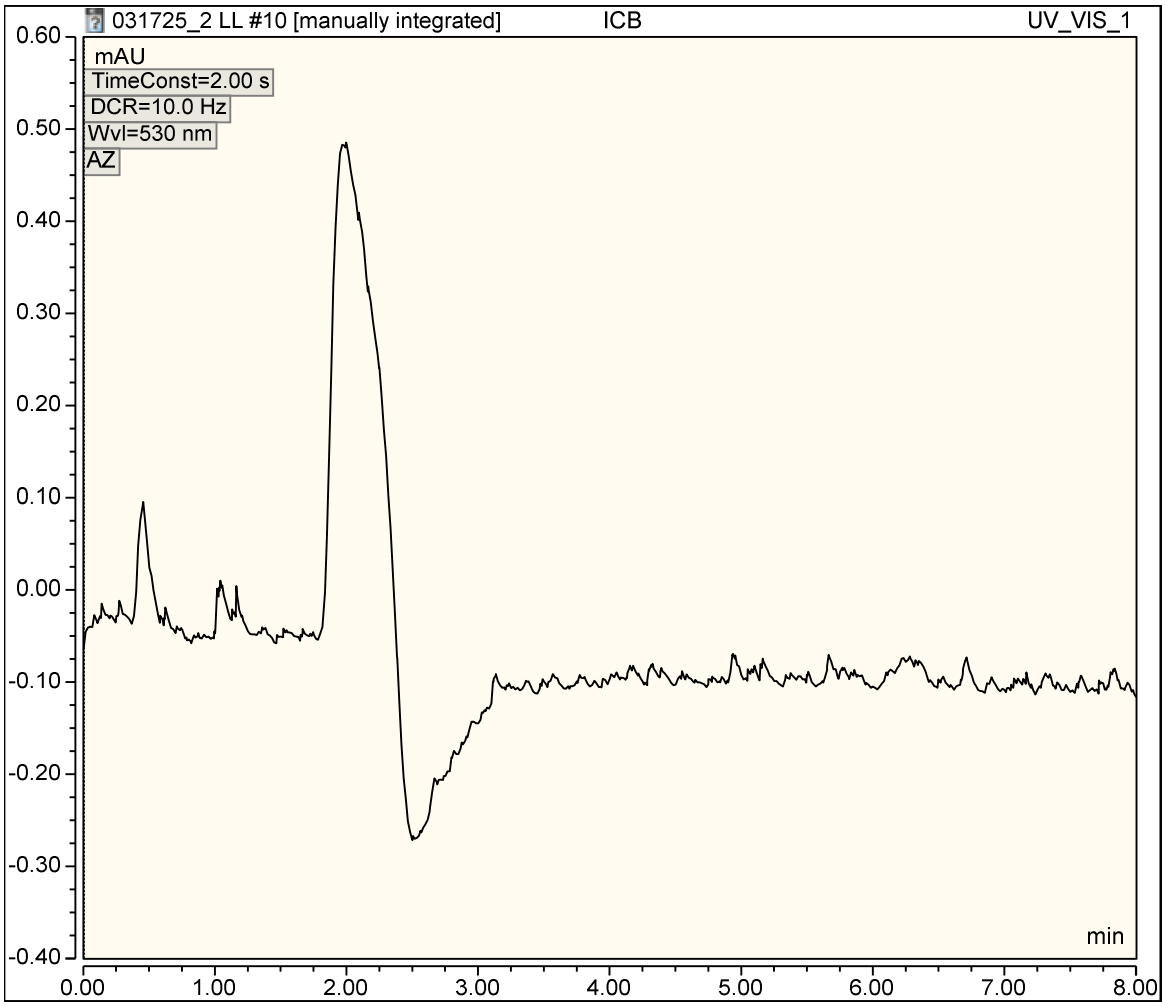
Sample Name:	**ICB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/17/25 09:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	5.66	CR6LL	BMB	0.001	0.023	n.a.
		TOTAL:		0.00	0.02	0.00



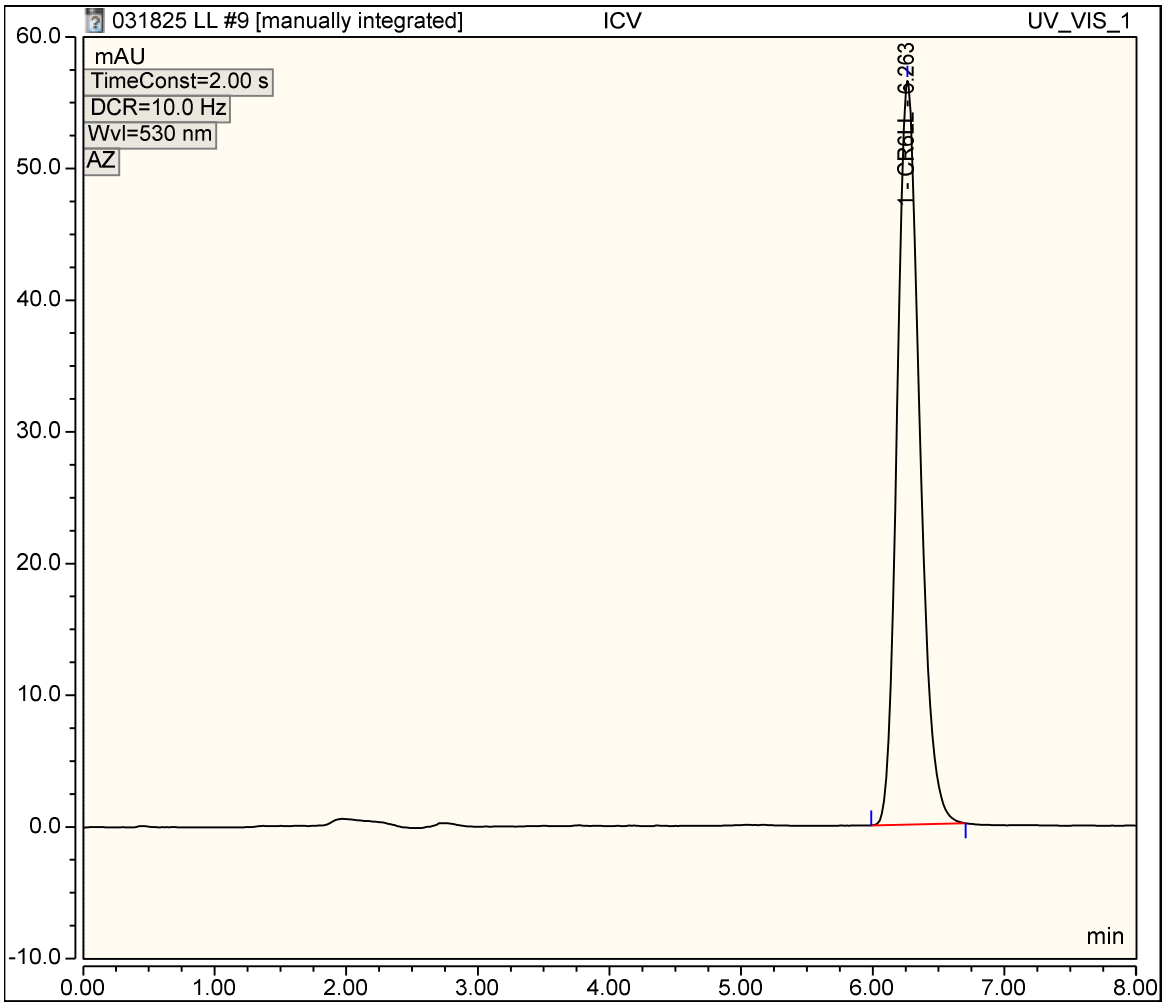
Sample Name:	**ICB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/17/25 09:55**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



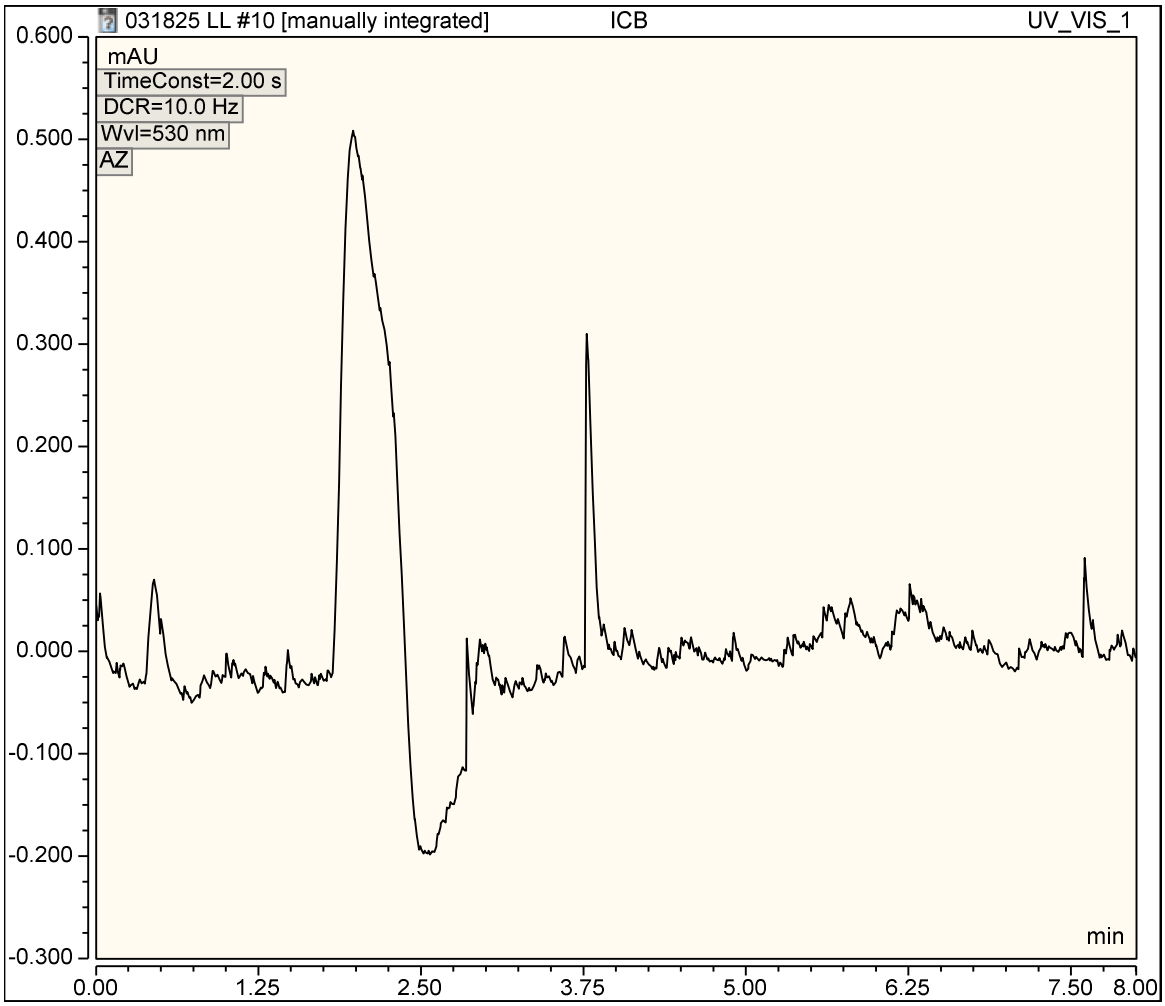
Sample Name:	**ICV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 17:35**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.26	CR6LL	BMB*	11.246	56.490	49.3379
		TOTAL:		11.25	56.49	49.34



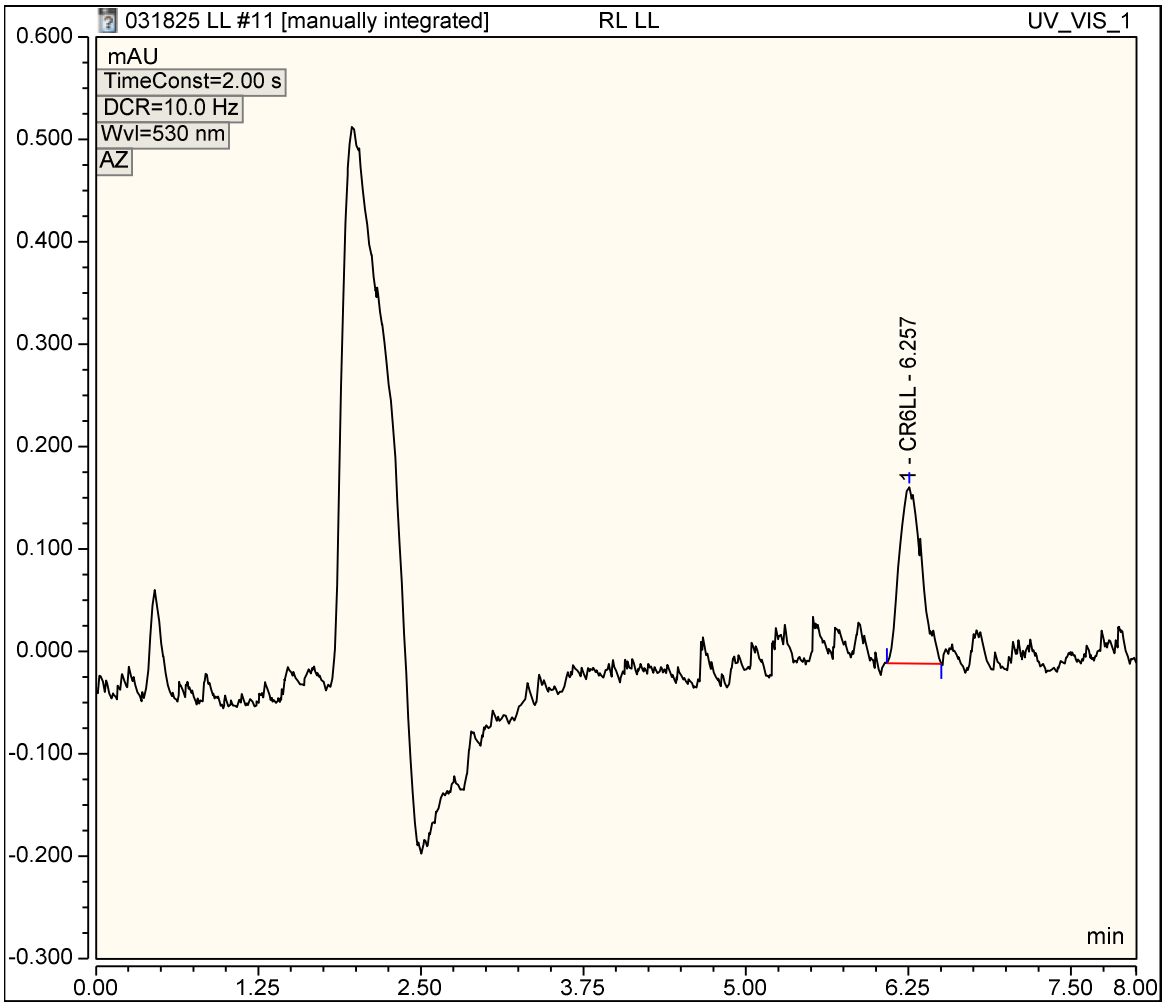
Sample Name:	**ICB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 17:46**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



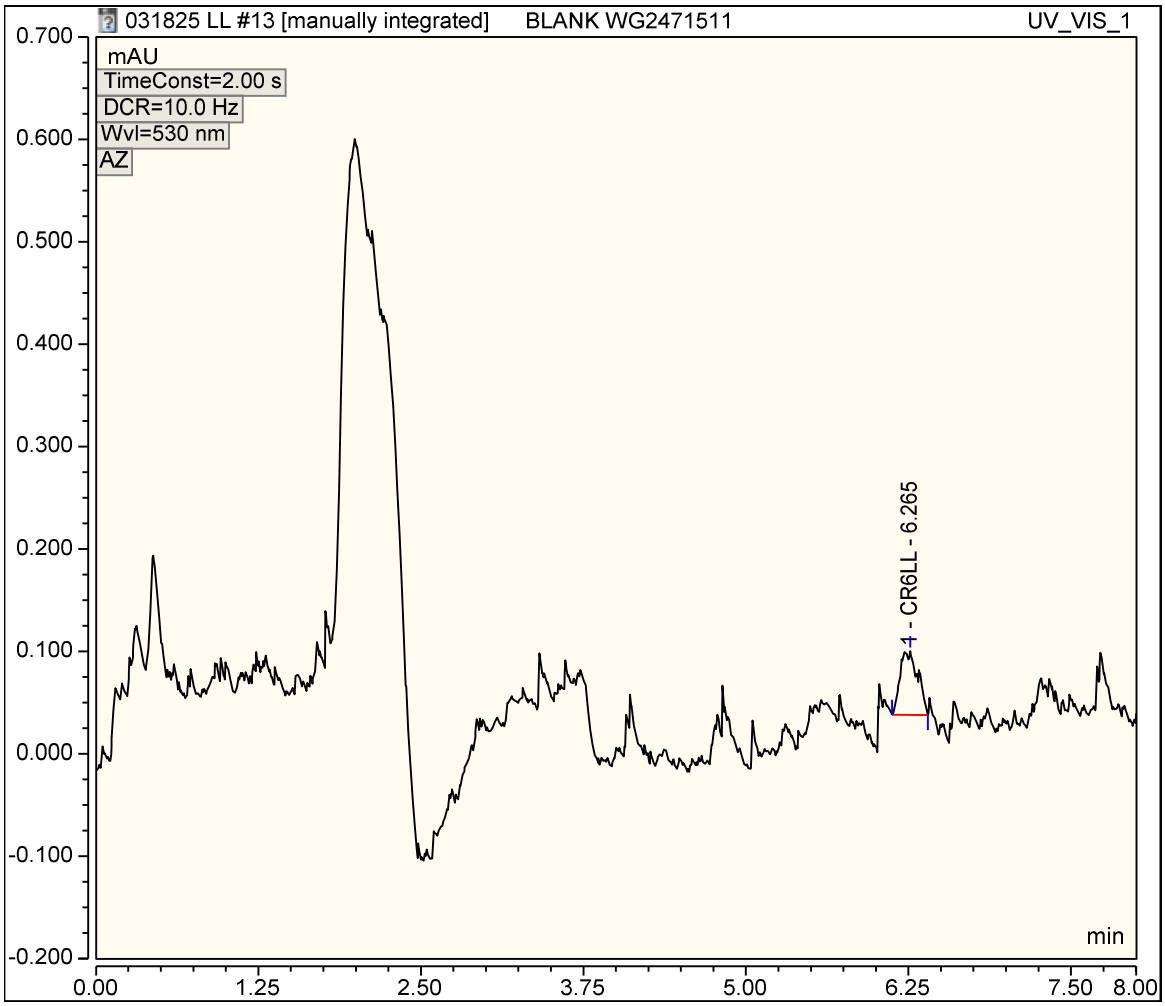
Sample Name:	**RL LL**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 17:57**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.26	CR6LL	BMB*	0.034	0.172	0.1115
		TOTAL:		0.03	0.17	0.11



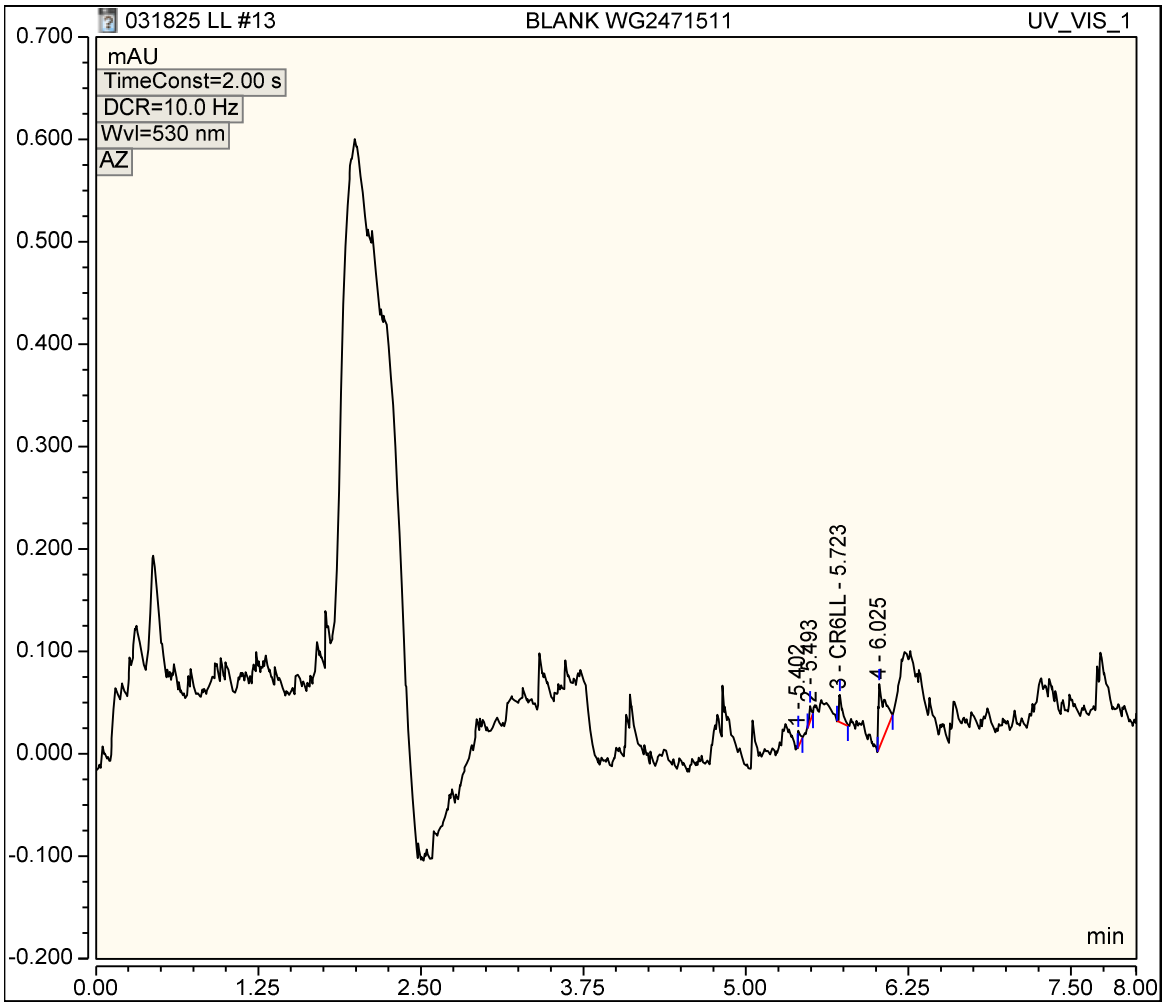
Sample Name:	**BLANK WG2471511**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 18:32**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.26	CR6LL	BMB*	0.010	0.062	0.0054
		TOTAL:		0.01	0.06	0.01



Sample Name:	**BLANK WG2471511**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 18:32**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
3	5.72	CR6LL	BMB	0.001	0.027	n.a.
		TOTAL:		0.00	0.03	0.00

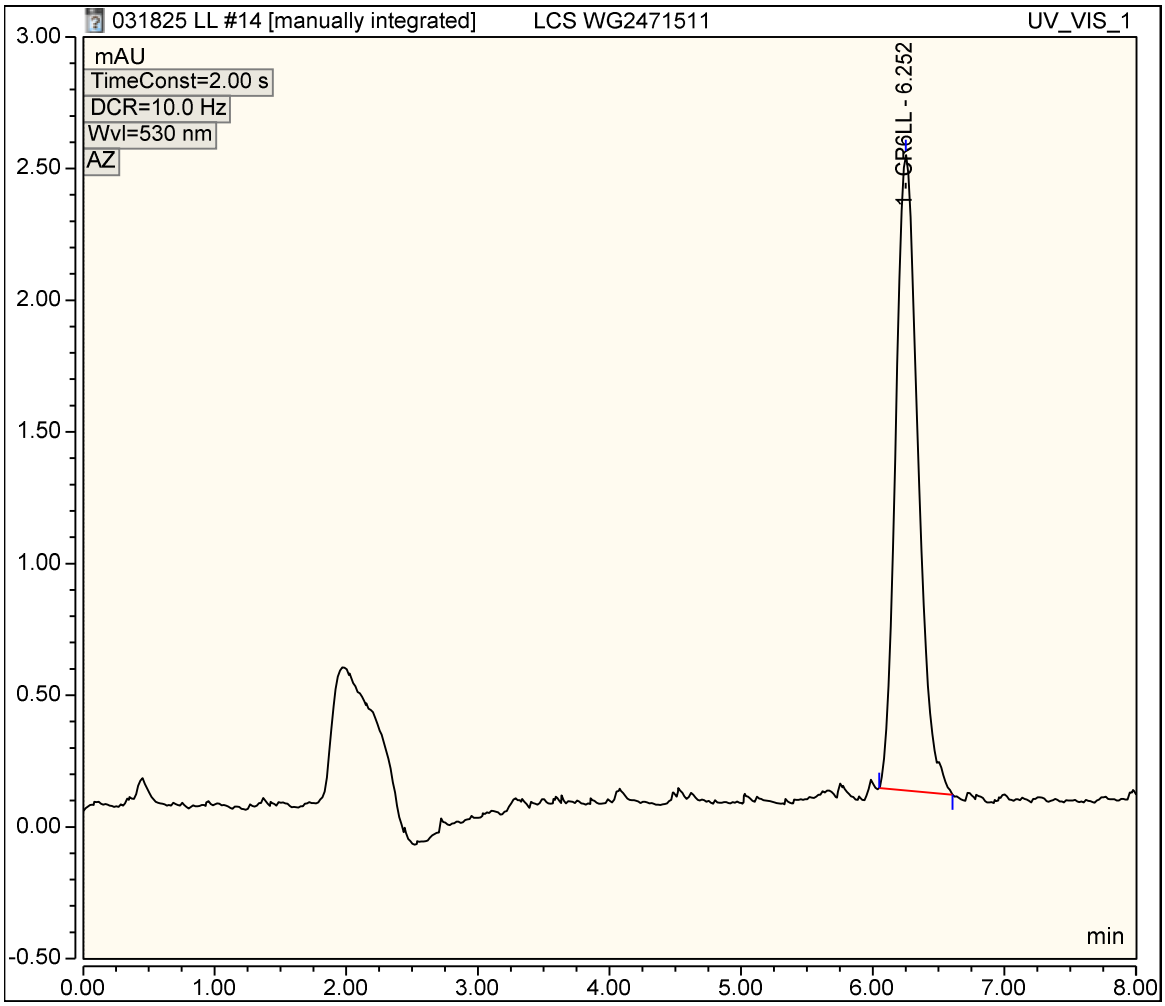


Export for Tree/Integration

PeakNet 6 (r) Dionex 2001
Version 7.3.1.6535

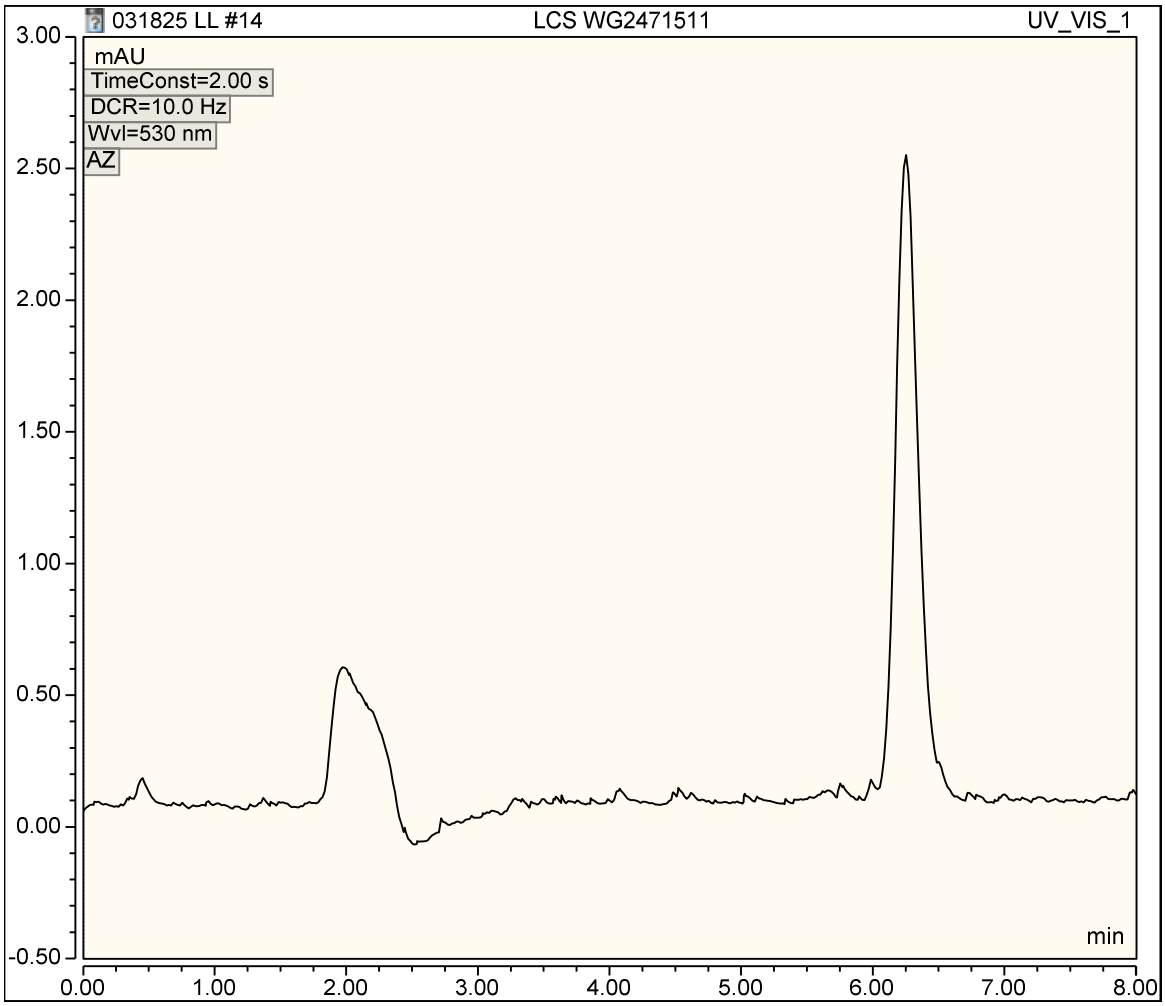
Sample Name:	**LCS WG2471511**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 18:43**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.25	CR6LL	BMB*	0.476	2.414	2.0521
		TOTAL:		0.48	2.41	2.05



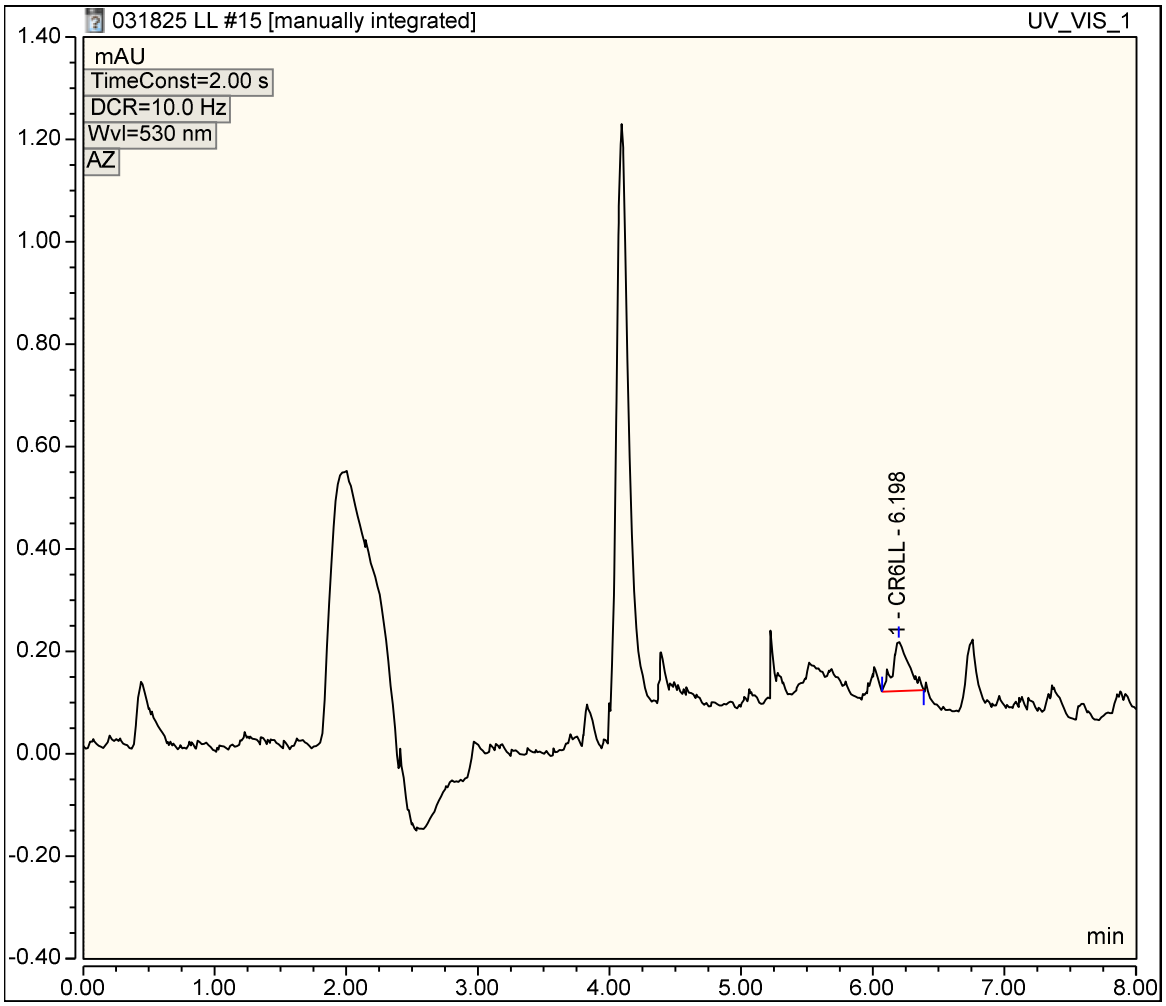
Sample Name:	**LCS WG2471511**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 18:43**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**L1835192-01 WG2471511**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 18:54**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.20	CR6LL	BMB*	0.014	0.097	0.0230
		TOTAL:		0.01	0.10	0.02

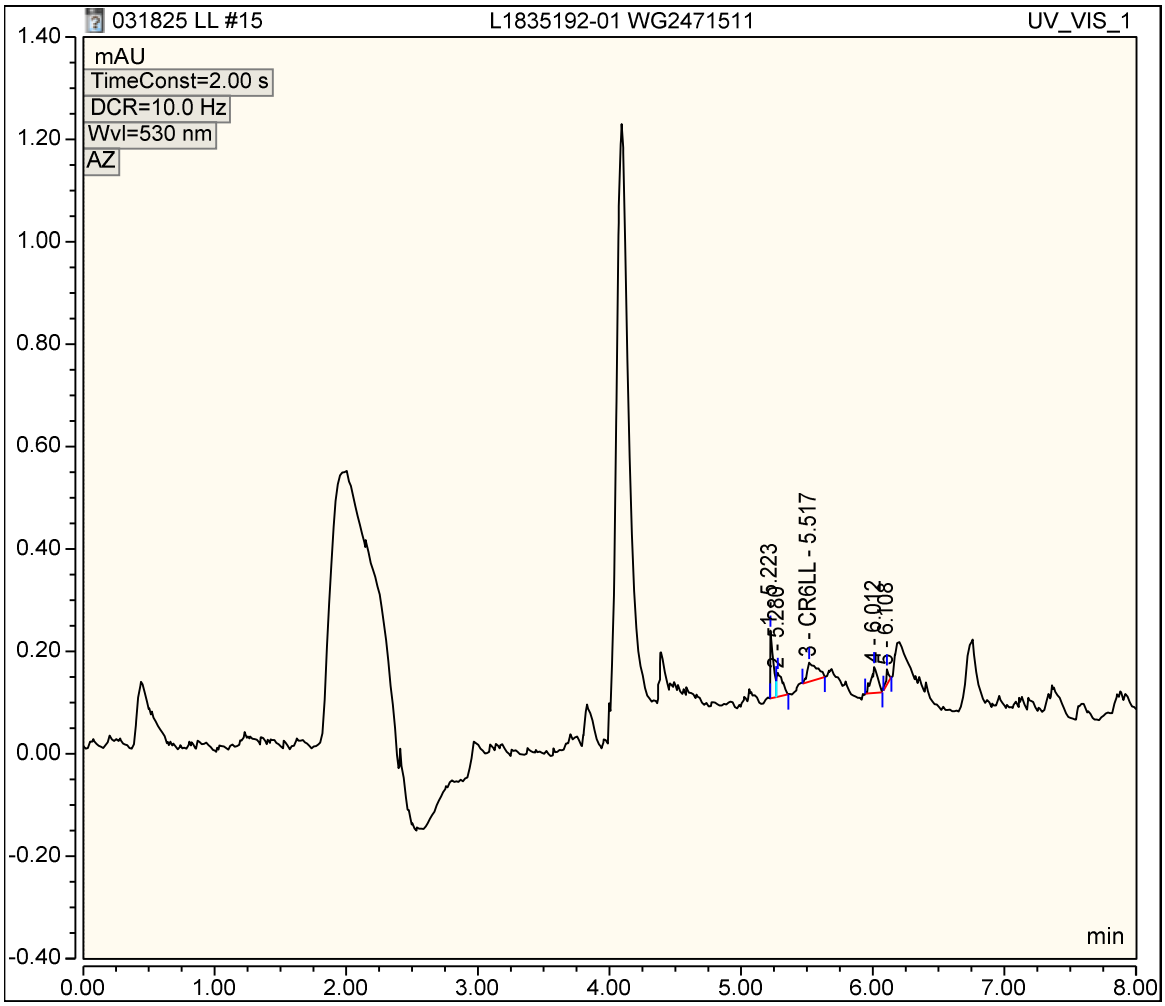


Export for Tree/Integration

PeakNet 6 (r) Dionex 2001
Version 7.3.1.6535

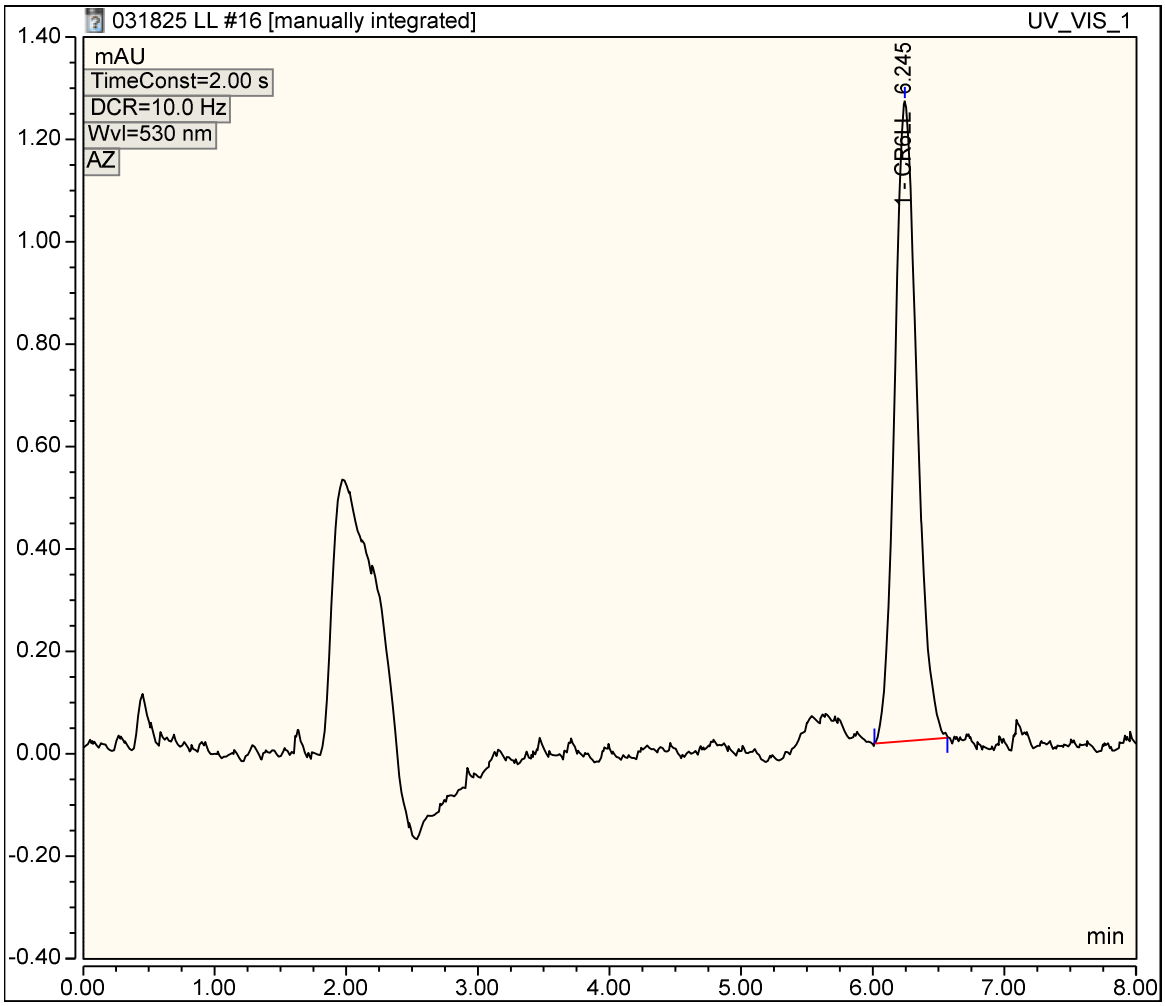
Sample Name:	**L1835192-01 WG2471511**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 18:54**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
3	5.52	CR6LL	BMB	0.003	0.037	n.a.
		TOTAL:		0.00	0.04	0.00



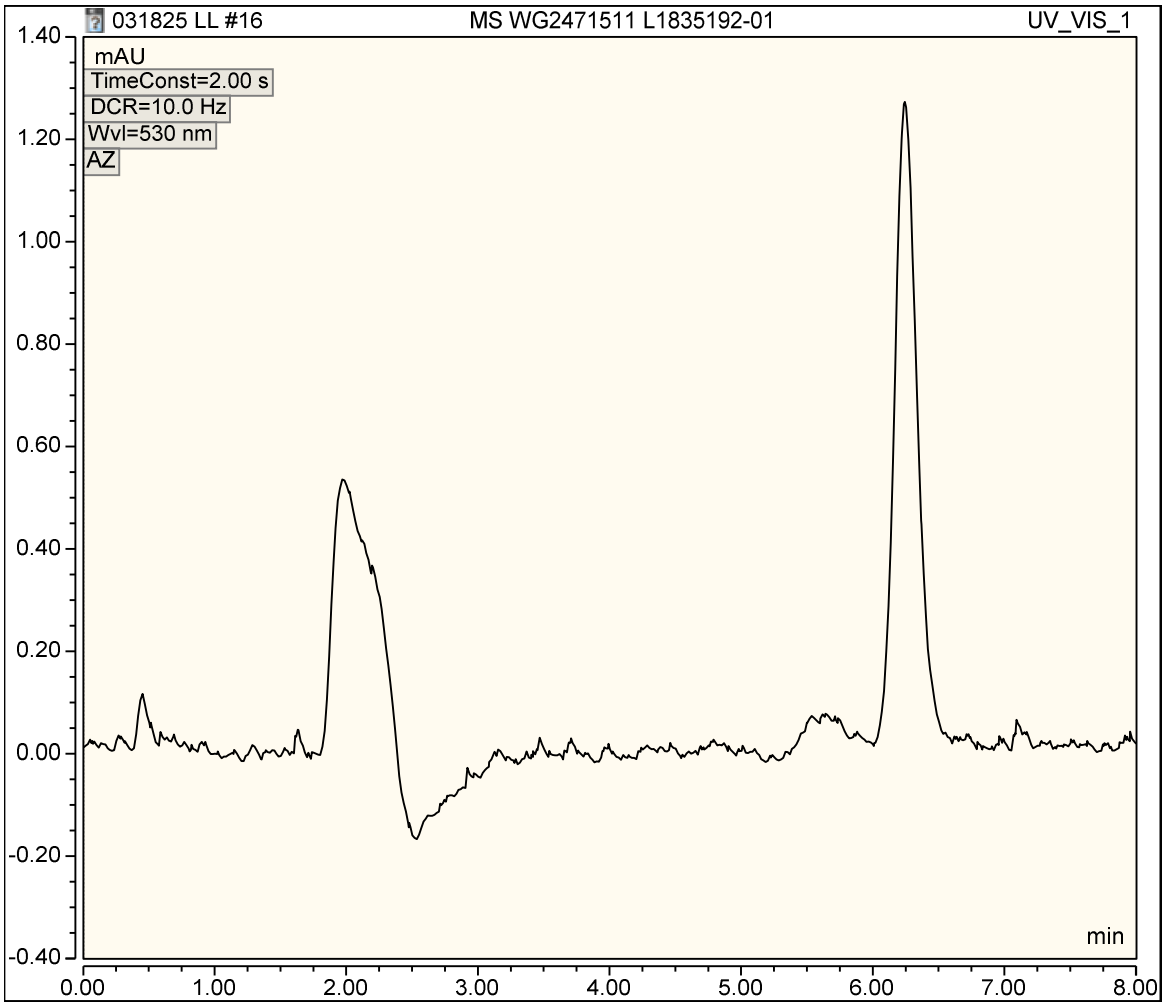
Sample Name:	**MS WG2471511 L1835192-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 19:05**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	CR6LL	BMB*	0.246	1.248	1.0437
		TOTAL:		0.25	1.25	1.04



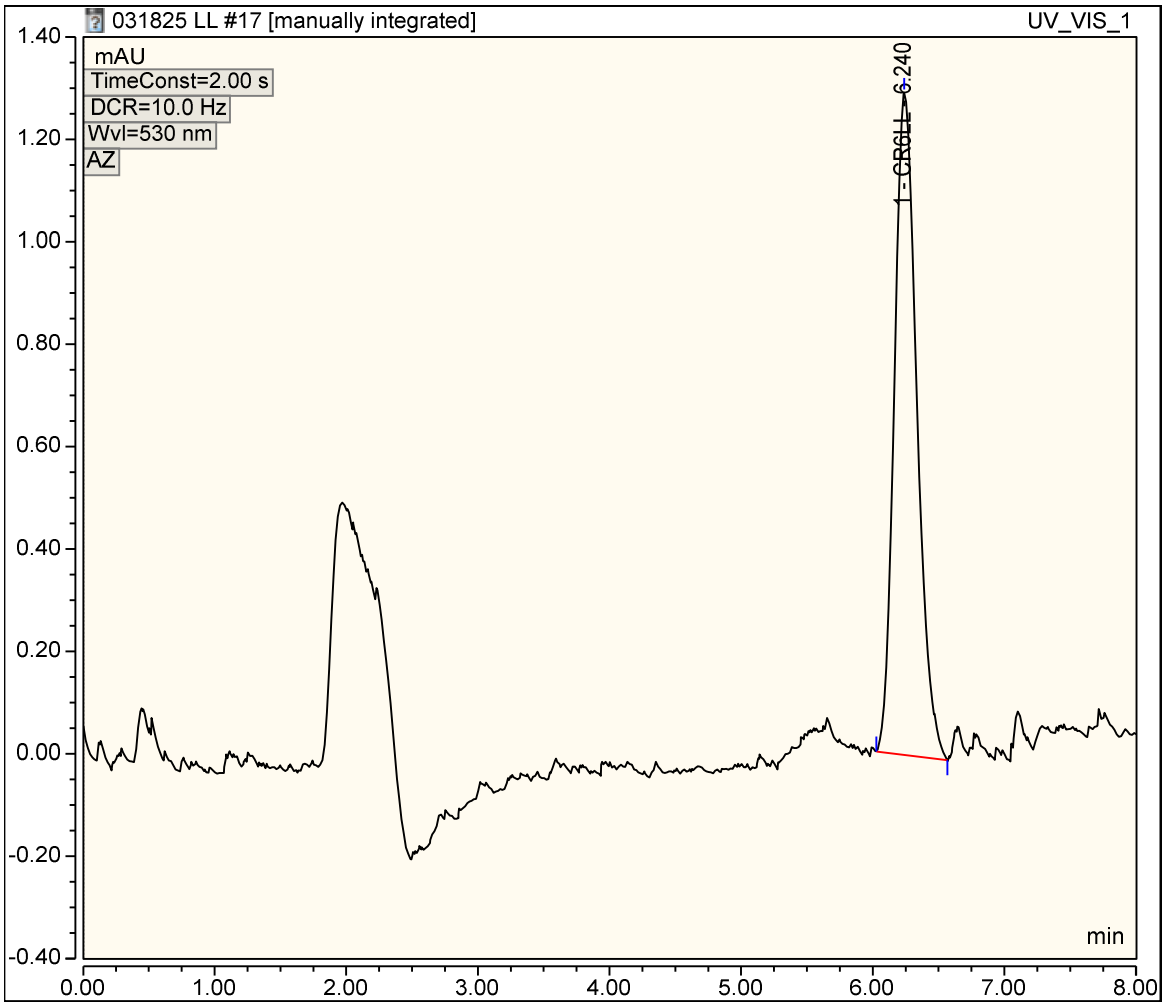
Sample Name:	**MS WG2471511 L1835192-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 19:05**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



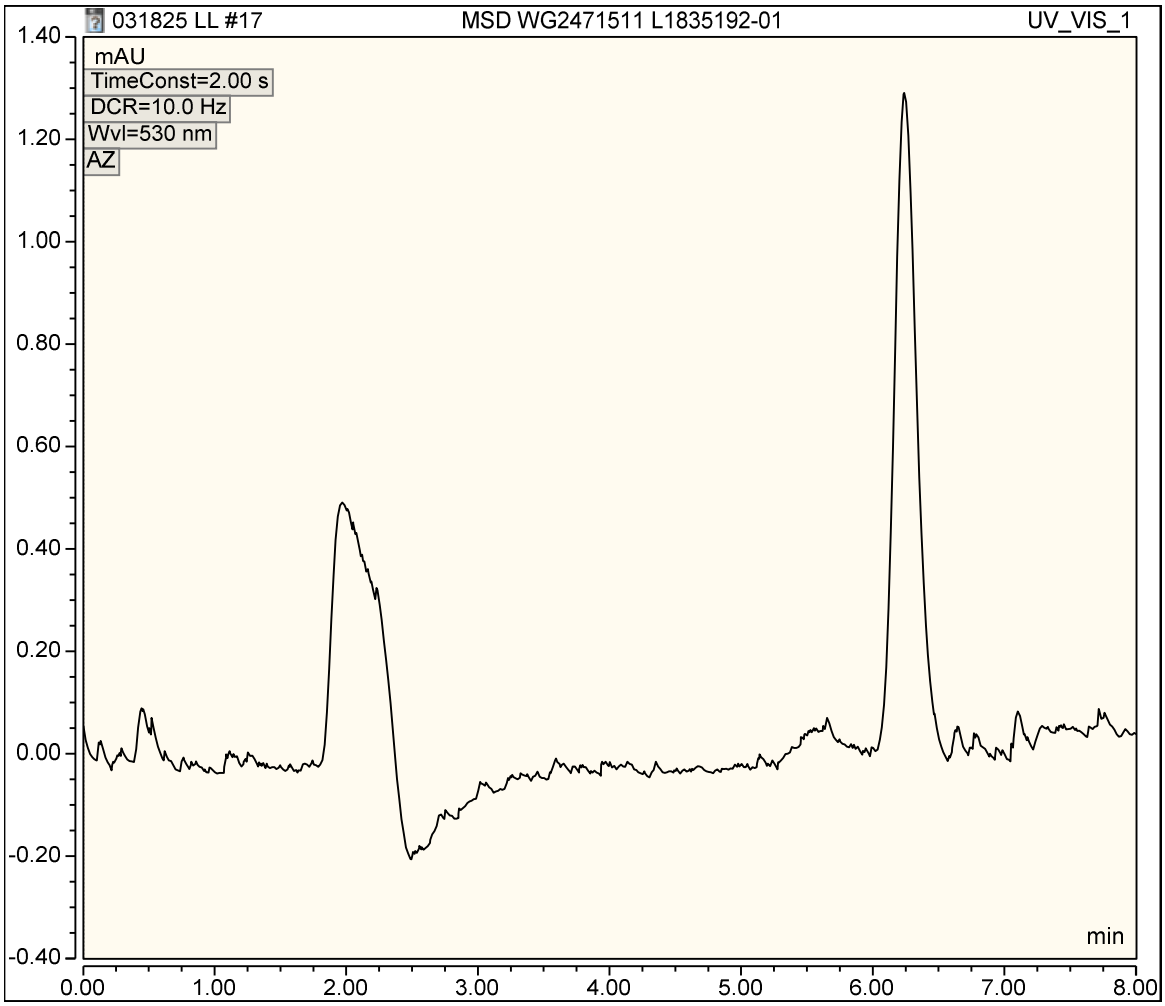
Sample Name:	**MSD WG2471511 L1835192-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 19:16**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	CR6LL	BMB*	0.257	1.292	1.0910
		TOTAL:		0.26	1.29	1.09



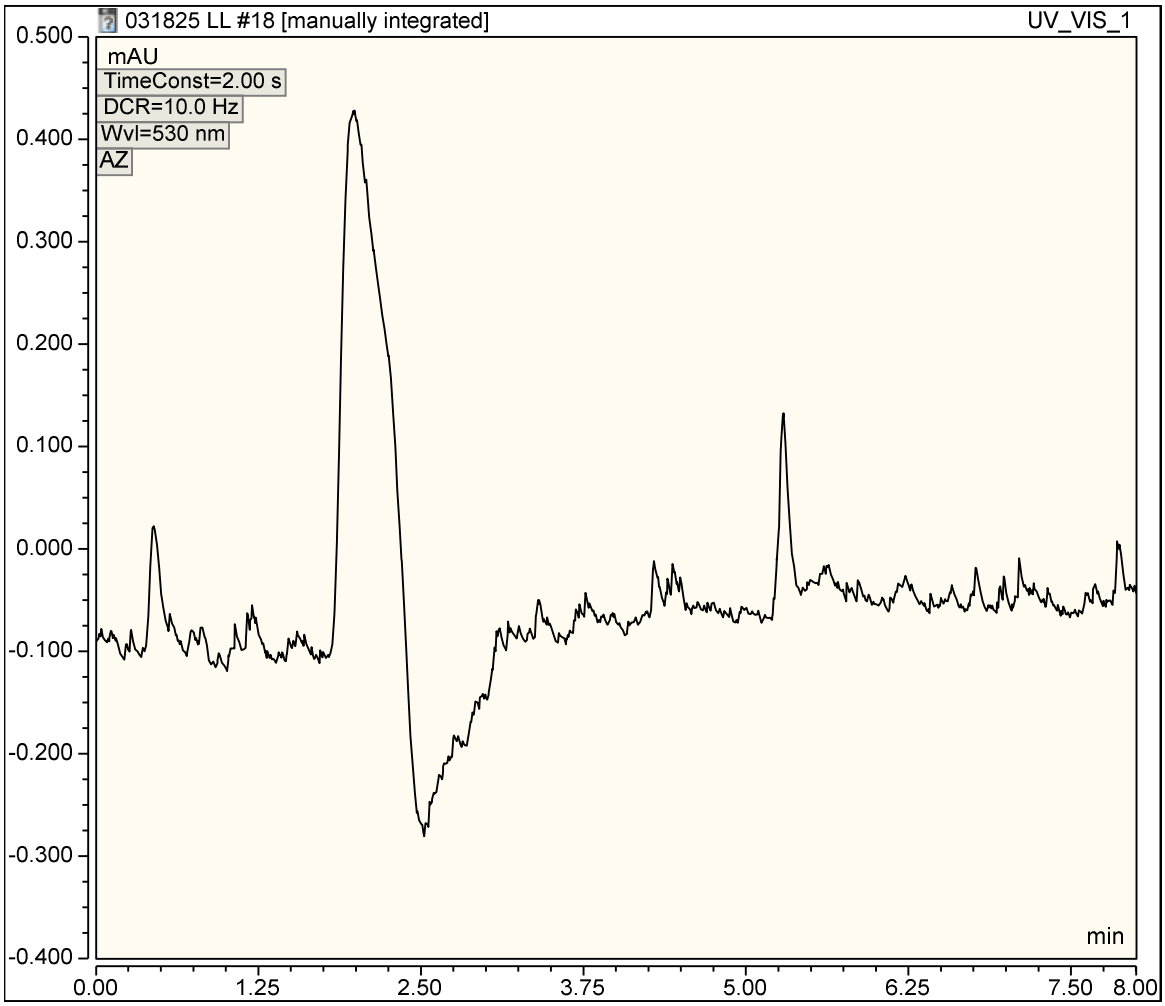
Sample Name:	**MSD WG2471511 L1835192-01**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 19:16**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



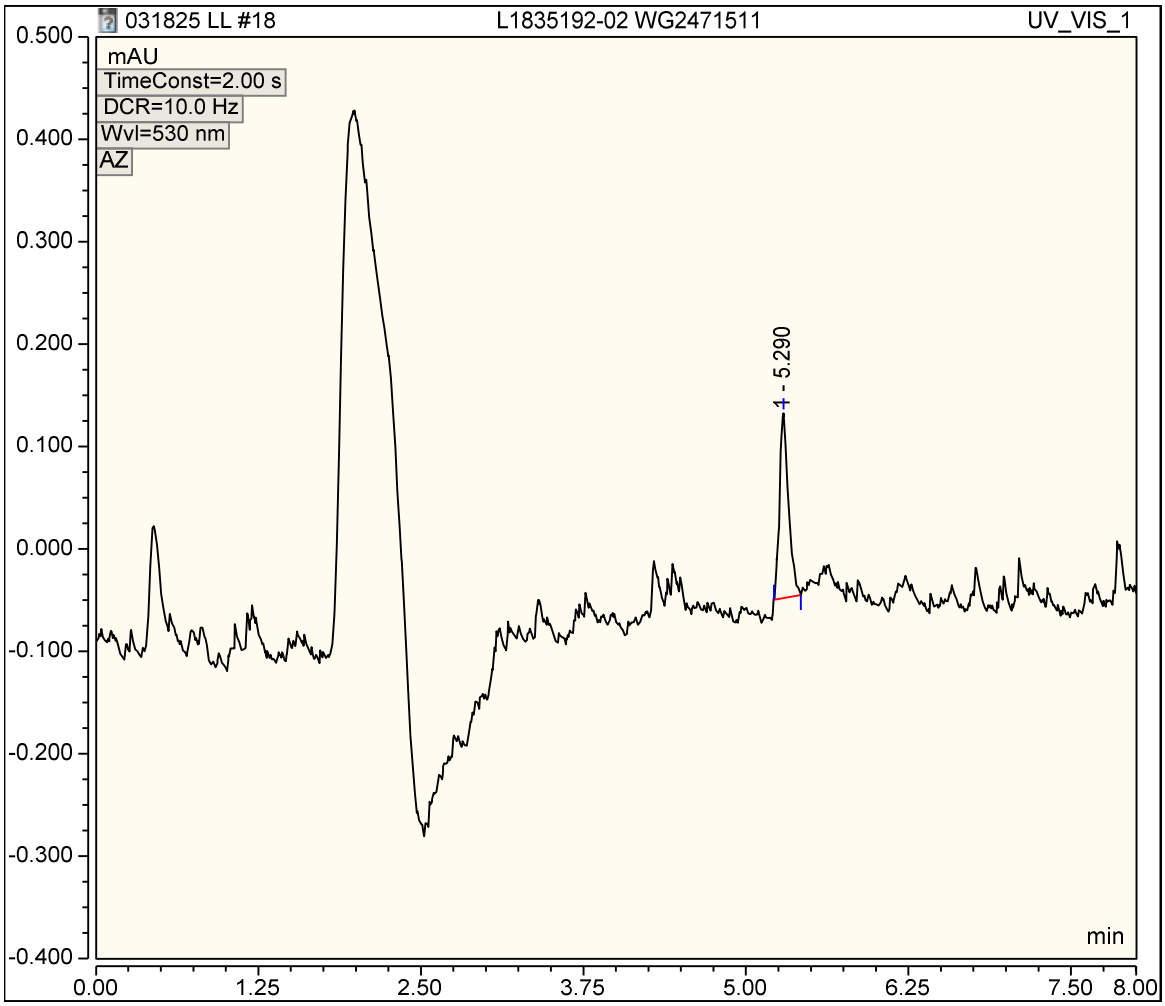
Sample Name:	**L1835192-02 WG2471511**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 19:27**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



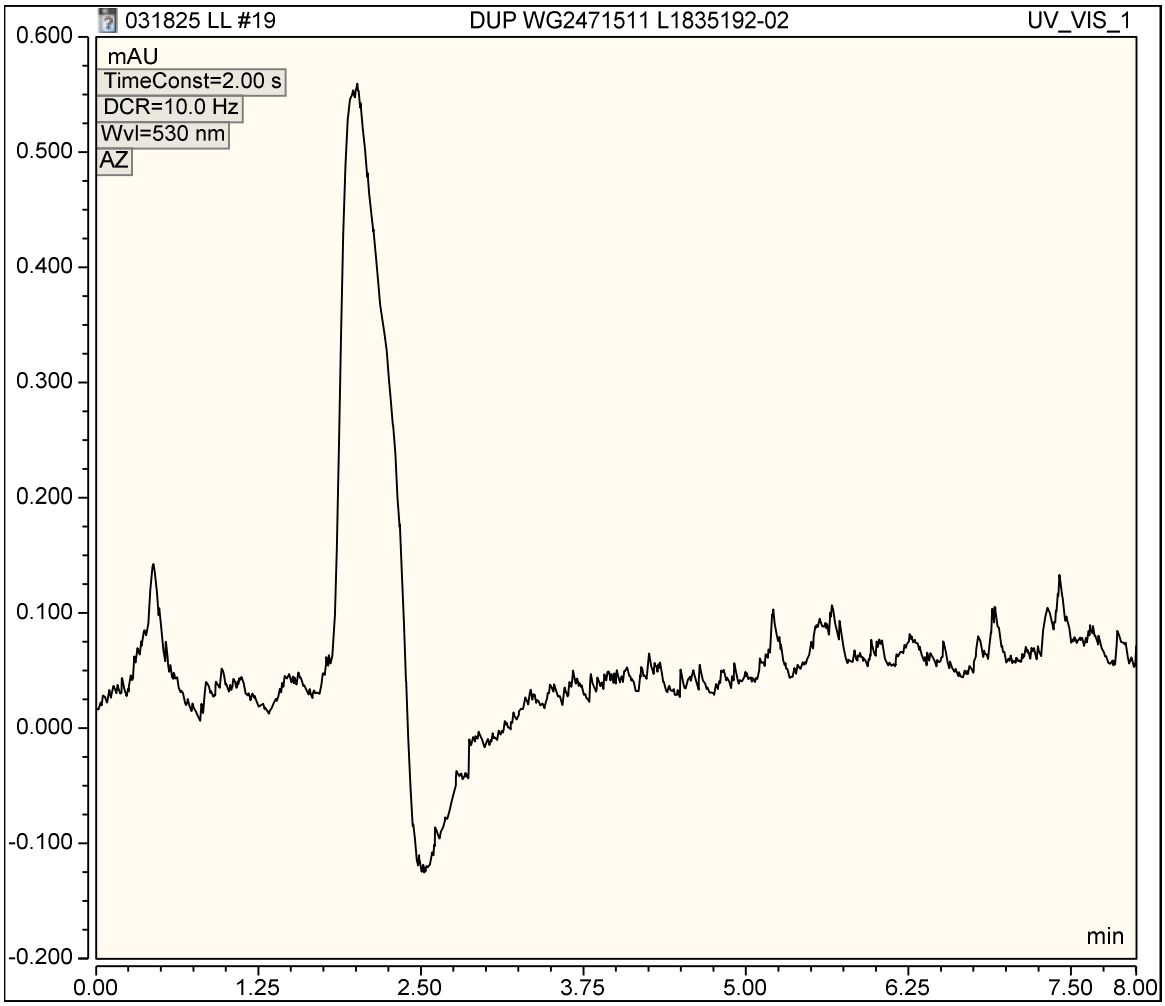
Sample Name:	**L1835192-02 WG2471511**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 19:27**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



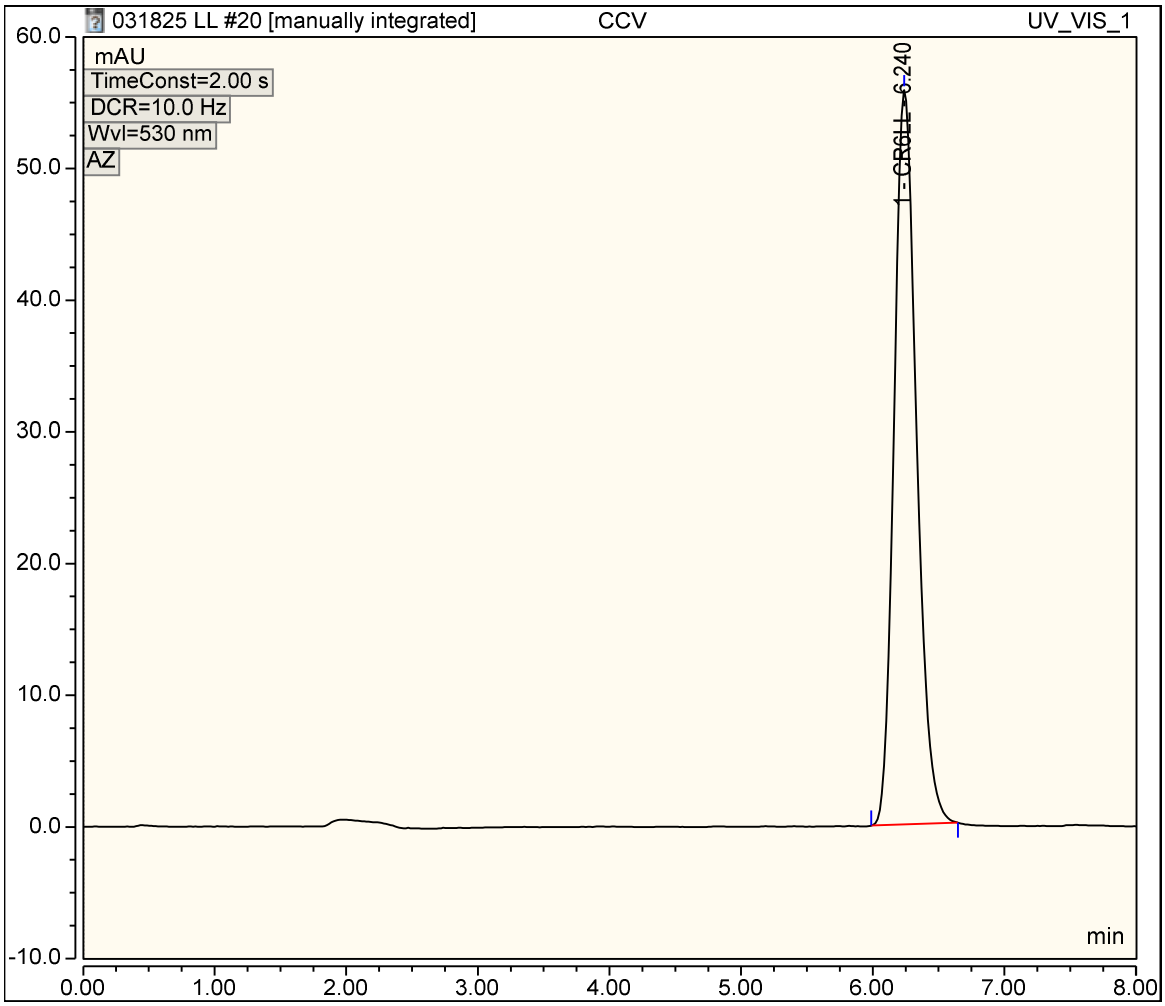
Sample Name:	**DUP WG2471511 L1835192-02**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 19:38**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



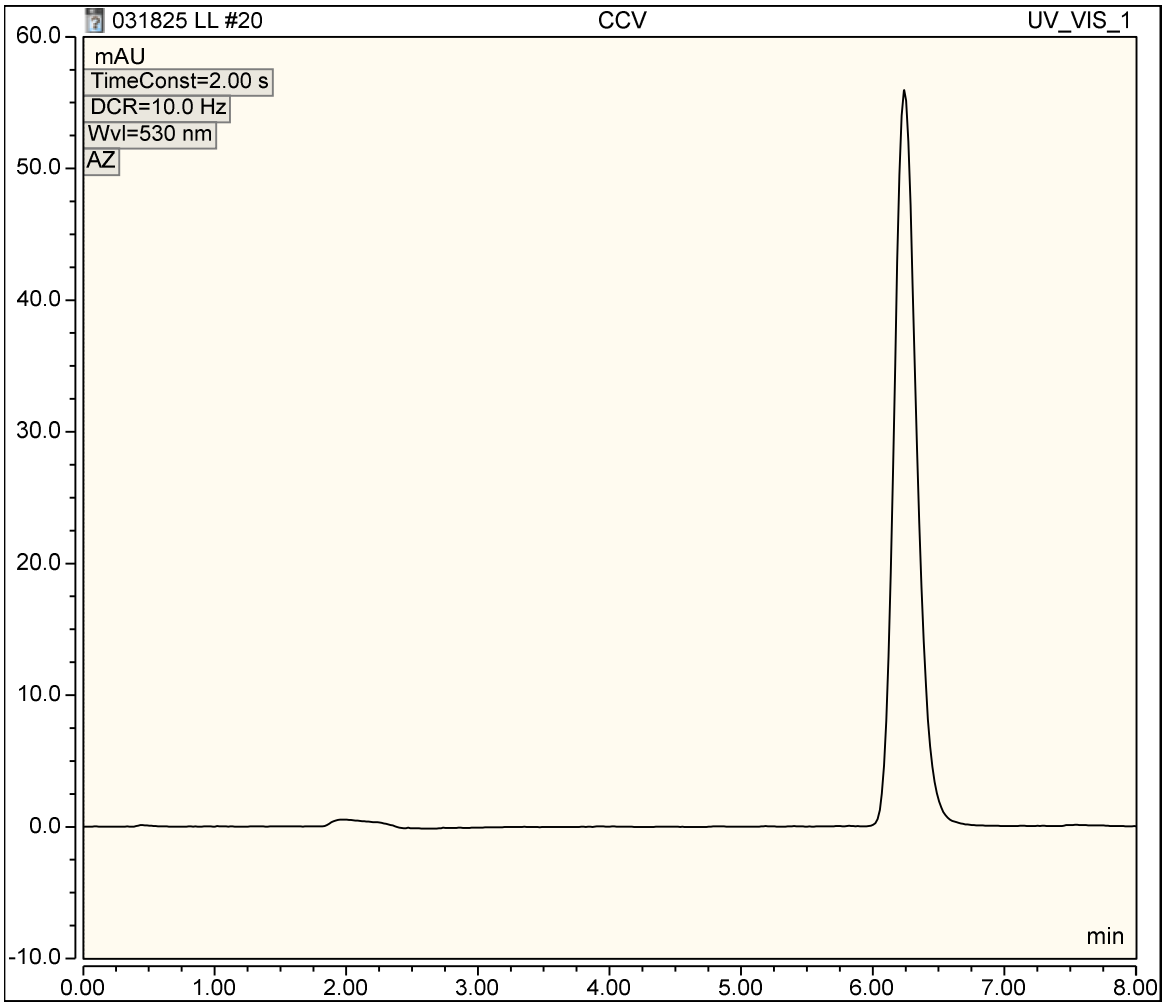
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 19:49**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
1	6.24	CR6LL	BMB*	11.064	55.765	48.5359
		TOTAL:		11.06	55.76	48.54



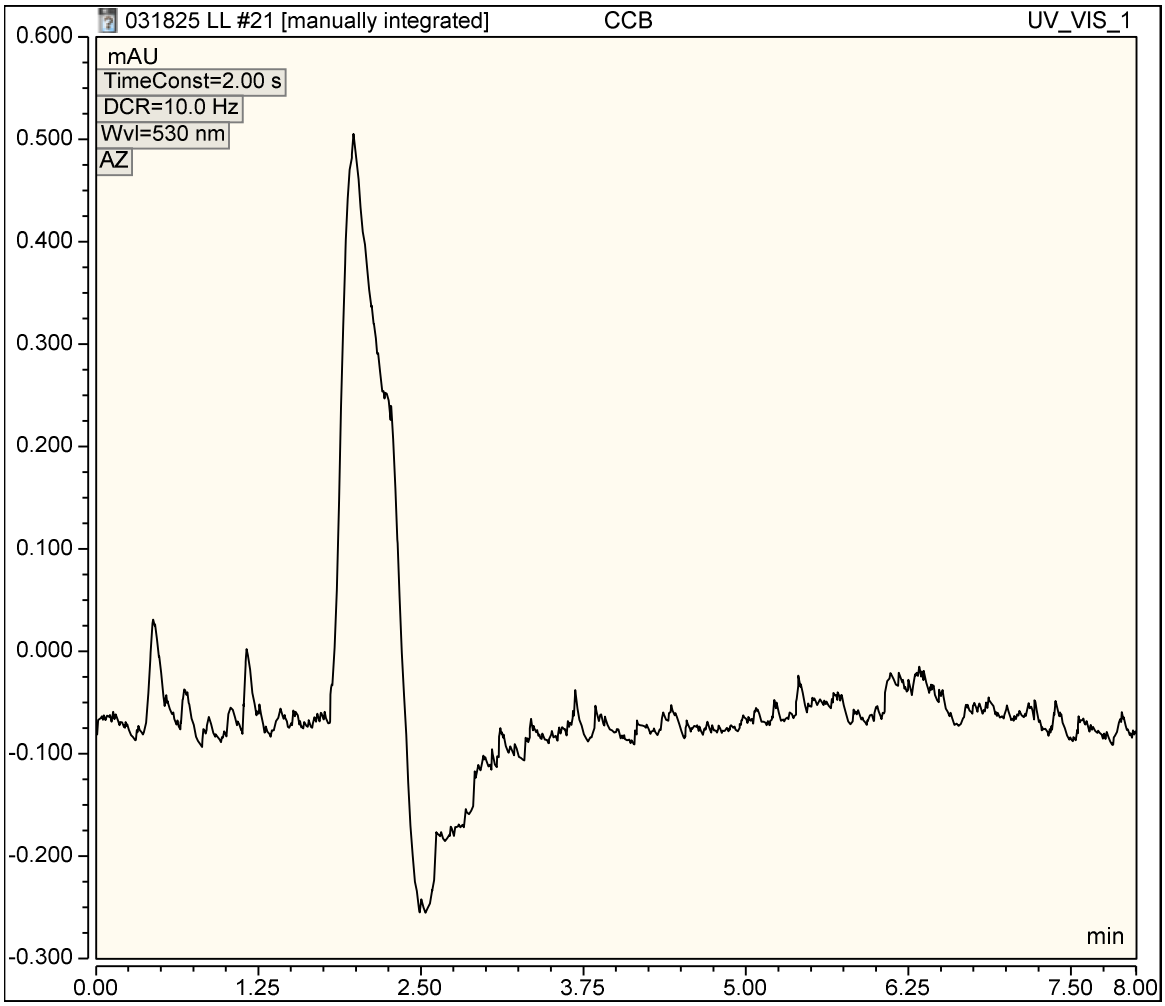
Sample Name:	**CCV**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 19:49**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



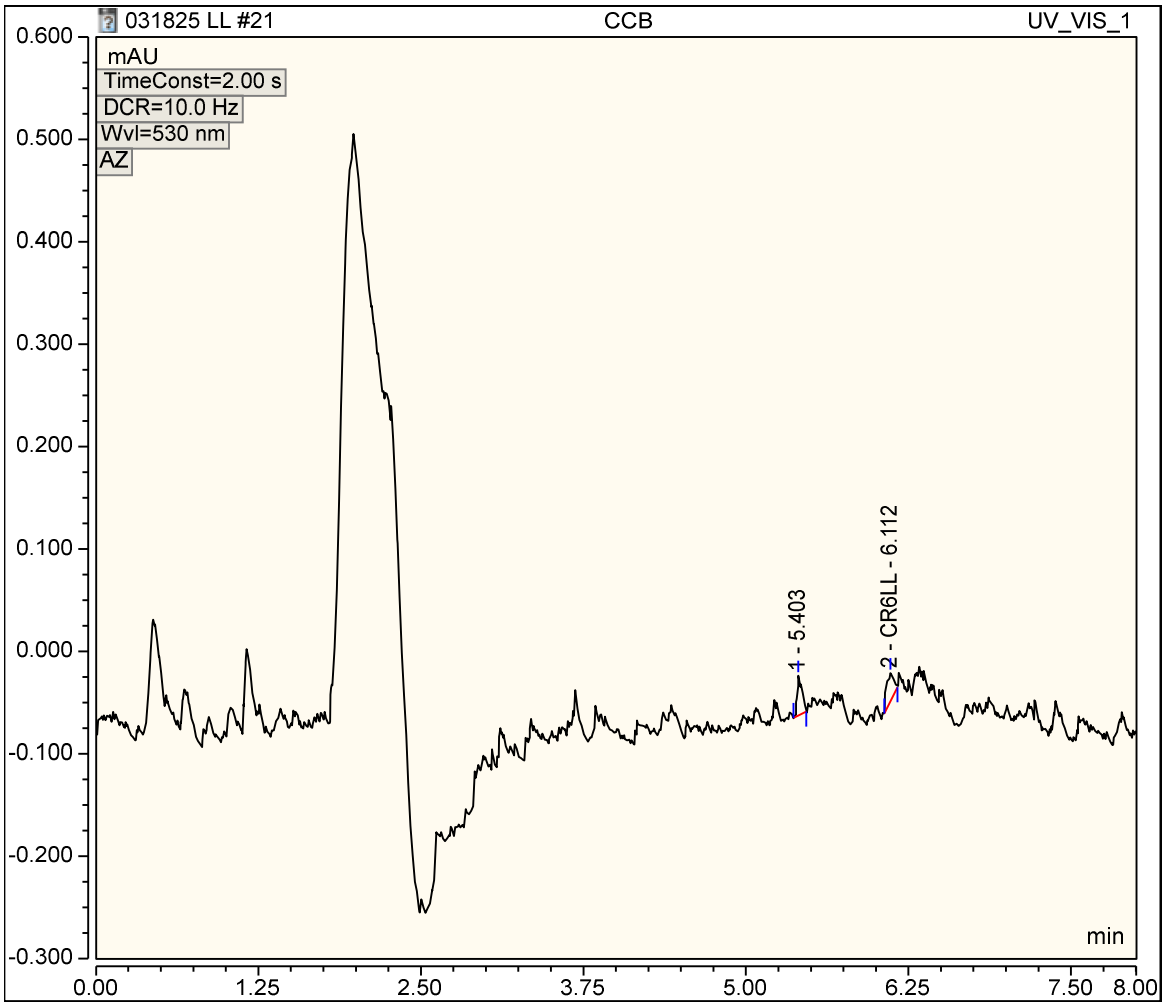
Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 19:59**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount n.a.
		TOTAL:		0.00	0.00	0.00



Sample Name:	**CCB**	*Inj. Vol.:*	**500.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**HEXAVALENT CHROMIUM_no CD2**	*Operator:*	**METALSIC28**
Inj. Date/Time:	**03/18/25 19:59**	*Run Time:*	**8.00**

No.	Time min	Peak Name	Type	Area mAU*min	Height mAU	Amount ppb
2	6.11	CR6LL	BMB	0.002	0.028	n.a.
		TOTAL:		0.00	0.03	0.00



CR6IC Water Metals Prep Benchsheet

Batch: WG2467459

Analyst: VS117 **Analyst 2:** VS117 **Analyst 3:** VS117 **Batch Date/Time:** 03/12/25 14:34-19:47 **Prep End Date/Time:** 03/13/25 00:56 **SOP:** MTJL-0200
Method: 7199/3500Cr C **Syringe Lot#:** 241125 **0.45 PVDF Filter Lot#:** 329076081 **0.2 Nylon Fiilter Lot#:** 337019037 **10mL Pipette Lot#:** 101052037
5mL Pipette Lot#: NA **0.1mL Auto Pipette SN:** 100999742 **1mL Auto Pipette SN:** 101109405 **0.1mL Auto Pipette Tip Lot#:** 24400014
1mL Auto Pipette Tip Lot#: 24240064 **Digestion Tube Lot#:** LV24061004-F-4330-IJ **Filter/Plunger Lot#:** 237430-3293-AR/2206050-3275
IC Cap/Vial Lot#: 3250-18351/LV24071515-4339-4343 **pH Probe SN:** CV1-15153 **pH Meter:** V18914 **Cal Reference WG#:** NA

ICV Standard: 25C13898 Amt. Used: 6 mL Exp. Date:03/13/25 **LCS/D Standard:** 25C13893 Amt. Used: 6 mL Exp. Date:03/13/25
MS/D Standard: 25C13893 Amt. Used: 0.50 mL Exp. Date:03/13/25 **ALT Standard:** 25C13894 Amt. Used: 6 mL Exp. Date:03/13/25
RLV Standard: 25C13896 Amt. Used: 6 mL Exp. Date:03/13/25 **Calibration Standard:** 25C13902 Amt. Used: 6 mL Exp. Date:03/13/25
Eluent: 25C12696 Exp. Date:04/12/25 **Color Reagent:** 25C12695 Exp. Date:03/15/25 **Ammonium Hydroxide:** 24L11810 Exp. Date:07/08/26
Buffer: 25B07015 Exp. Date:08/07/25

Sample Number	Prep Flags	Matrix	Initial Sample Vol. (mL)	Method	Dilution Factor	Initial pH	Adjt pH Time/Date	Final Adjusted pH	Review Analyst	Review Date
BLANK			10		1	9.45	NA	NA	VSS117	03/13/25 00:57:36
LCS			10		1	9.53	NA	NA	VSS117	03/13/25 00:57:36
MS(L1834905-01)			10		1	NA	NA	NA	VSS117	03/13/25 00:57:36
MS(L1835142-07)			10		1	NA	NA	NA	VSS117	03/13/25 00:57:36
MSD(L1834905-01)			10		1	NA	NA	NA	VSS117	03/13/25 00:57:36
DUP(L1834999-01)			10		1	NA	NA	NA	VSS117	03/13/25 00:57:36
DUP(L1835192-02)			10		1	NA	NA	NA	VSS117	03/13/25 00:57:36
1. L1834905-01	T2	WW	10	3500Cr C-2011	1	9.27	031225 1417	9.45	VSS117	03/13/25 00:57:36
2. L1834920-01	T2	WW	10	3500Cr C-2011	1	9.28	031225 1417	9.69	VSS117	03/13/25 00:57:36
3. L1834924-01	T2	WW	10	3500Cr C-2011	1	9.10	031225 1417	9.45	VSS117	03/13/25 00:57:36
4. L1834936-01		WW	10	3500Cr C-2011	1	9.40	031225 1417	NA	VSS117	03/13/25 00:57:36
5. L1834940-01		WW	10	3500Cr C-2011	1	9.53	031225 1417	NA	VSS117	03/13/25 00:57:36
6. L1834951-01		WW	10	3500Cr C-2011	1	9.45	031225 1417	NA	VSS117	03/13/25 00:57:36
7. L1834957-01		WW	10	3500Cr C-2011	1	9.54	031225 1417	NA	VSS117	03/13/25 00:57:36
8. L1834992-01		WW	10	3500Cr C-2011	1	9.50	031225 1417	NA	VSS117	03/13/25 00:57:36
9. L1834999-01		WW	10	3500Cr C-2011	1	9.31	031225 1417	NA	VSS117	03/13/25 00:57:36
10. L1835142-01		WW	10	3500Cr C-2011	1	9.58	031225 1710	NA	VSS117	03/13/25 00:57:36
11. L1835142-02		WW	10	3500Cr C-2011	1	9.71	031225 1710	NA	VSS117	03/13/25 00:57:36
12. L1835142-03		WW	10	3500Cr C-2011	1	9.74	031225 1710	NA	VSS117	03/13/25 00:57:36
13. L1835142-04		WW	10	3500Cr C-2011	1	9.85	031225 1710	NA	VSS117	03/13/25 00:57:36
14. L1835142-05		WW	10	3500Cr C-2011	1	9.84	031225 1710	NA	VSS117	03/13/25 00:57:36
15. L1835142-06		WW	10	3500Cr C-2011	1	9.83	031225 1710	NA	VSS117	03/13/25 00:57:36
16. L1835142-07		WW	10	3500Cr C-2011	1	9.80	031225 1710	NA	VSS117	03/13/25 00:57:36
17. L1835192-01		WW	10	3500Cr C-2011	1	9.55	031225 2038	NA	VSS117	03/13/25 00:57:36
18. L1835192-02		WW	10	3500Cr C-2011	1	9.61	031225 2038	NA	VSS117	03/13/25 00:57:36
19. L1835192-03		WW	10	3500Cr C-2011	1	9.65	031225 2038	NA	VSS117	03/13/25 00:57:36

Comments:
L1835142-02 Time Added: 03/12/25 17:07:46
L1835142-06 Time Added: 03/12/25 17:07:46
L1835142-05 Time Added: 03/12/25 17:07:46
L1835142-01 Time Added: 03/12/25 17:07:46
L1835142-07 Time Added: 03/12/25 17:07:46
L1835142-03 Time Added: 03/12/25 17:07:46
L1835142-04 Time Added: 03/12/25 17:07:46
L1835192-03 Time Added: 03/12/25 19:47:34
L1835192-02 Time Added: 03/12/25 19:47:34
L1835192-01 Time Added: 03/12/25 19:47:34

Reviewed By: VSS117 on 03/13/25 00:57:36

CR6LL Metals Prep Benchsheet

Batch: WG2471511

Analyst: EKB4186 **Batch Date/Time:** 03/18/25 16:27-16:29 **Prep End Date/Time:** 03/18/25 17:50 **SOP:** MTJL-0200 **Method:** 218.6/7199 **Syringe Lot#:** 241125
0.45 PVDF Filter Lot#: 329076081 **0.2 Nylon Filter Lot#:** 325116166 **10mL Pipette Lot#:** 101052037 **5mL Pipette Lot#:** NA **0.1mL Auto Pipette SN:** 100999742
1mL Auto Pipette SN: 101109405 **0.1mL Auto Pipette Tip Lot#:** 24400014 **1mL Auto Pipette Tip Lot#:** 24240064 **Digestion Tube Lot#:** LV24061004-F-4330-IJ
Filter/Plunger Lot#: 237430-3293-AR/2206050-3275 **IC Cap/Vial Lot#:** 074228/8000052576 **pH Probe SN:** CV1-13153 **pH Meter:** V18914
Cal ReferenceWG#: WG2469307

ICV Standard: 25C18561 Amt. Used: 6 mL Exp. Date:03/19/25 **LCS/D Standard:** 25C18556 Amt. Used: 6 mL Exp. Date:03/19/25
MS/D Standard: 25C18556 Amt. Used: 10 uL Exp. Date:03/19/25 **ALT Standard:** 25C18557 Amt. Used: 6 mL Exp. Date:03/19/25
RLV Standard: 25C18558 Amt. Used: 6 mL Exp. Date:03/19/25 **Eluent:** 25C18583 Exp. Date:04/18/25 **Color Reagent:** 25C18587 Exp. Date:03/21/25
Buffer: 25C13954 Amt. Used: 1 Exp. Date:09/13/25

Sample Number	Prep Flags	Matrix	Method	Initial Sample Vol. (mL)	Dilution Factor	Initial pH	Adjt pH Time/Date	Final Adjusted pH	Review Analyst	Review Date
BLANK				10	1	9.45	NA	NA	ANW4260	03/18/25 17:51:10
LCS				10	1	9.53	NA	NA	ANW4260	03/18/25 17:51:10
MS(L1835192-01)				10	1	NA	NA	NA	ANW4260	03/18/25 17:51:10
MSD(L1835192-01)				10	1	NA	NA	NA	ANW4260	03/18/25 17:51:10
DUP(L1835192-02)				10	1	NA	NA	NA	ANW4260	03/18/25 17:51:10
1. L1835192-01	T8	WW	218.6	10	1	7.28	031825/1624	9.53	ANW4260	03/18/25 17:51:10
2. L1835192-02	T8	WW	218.6	10	1	7.49	031825/1624	9.52	ANW4260	03/18/25 17:51:10

Comments:

Reviewed By:ANW4260 on 03/18/25 17:51:10

245.1 Mercury

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SW

Lab Sample ID:	L1835192-01	**SDG:**	L1835192
Client Sample ID:	MONTROSE-LAKE-I-SW	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250314194504	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:51
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:45
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SW

Lab Sample ID:	L1835192-01	**SDG:**	L1835192
Client Sample ID:	MONTROSE-LAKE-I-SW	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	20250317162930	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 16:29
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DEEPWATER-I-SW

Lab Sample ID:	L1835192-02	**SDG:**	L1835192
Client Sample ID:	DEEPWATER-I-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	20250314195829	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:51
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:58
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DEEPWATER-I-SW

Lab Sample ID:	L1835192-02	**SDG:**	L1835192
Client Sample ID:	DEEPWATER-I-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	20250317163711	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 16:37
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835192-03	**SDG:**	L1835192
Client Sample ID:	TRUMAN-I-SW	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	20250317163938	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 16:39
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186741-1	**SDG:**	L1835192
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250314192340	**Received Date/Time:**	
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:48
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:23
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):		**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-1	**SDG:**	L1835192
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20250317151601	**Received Date/Time:**	
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 22:59
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 15:16
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):		**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	U		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186741-2	**SDG:**	L1835192
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20250314192621	**Received Date/Time:**	
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:48
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:26
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):		**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	3.00		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-8	**SDG:**	L1835192
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20250317165201	**Received Date/Time:**	_____
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 22:59
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 16:52
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	**CAS**	**Result**	**Qualifier**	**MDL**	**RDL**
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	2.98		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186741-4	**SDG:**	L1835192
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	20250314193415	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:51
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:34
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	2.84		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-4	**SDG:**	L1835192
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 10:50
Lab File ID:	20250317154335	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 15:43
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	2.86		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-6	**SDG:**	L1835192
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 09:45
Lab File ID:	20250317155134	**Received Date/Time:**	03/12/25 09:10
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 15:51
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	2.90		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186741-5	**SDG:**	L1835192
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	20250314193657	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:51
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:36
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	2.99		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-5	**SDG:**	L1835192
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 10:50
Lab File ID:	20250317154615	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 15:46
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	3.01		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-7	**SDG:**	L1835192
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 09:45
Lab File ID:	20250317155413	**Received Date/Time:**	03/12/25 09:10
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 15:54
Dilution Factor:	1	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	2.97		0.130	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4186741-3	**SDG:**	L1835192
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	20250314193146	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/13/25 16:51
Analytical Batch:	WG2467784	**Analysis Date/Time:**	03/14/25 19:31
Dilution Factor:	5	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury,Dissolved	7439-97-6	U		0.650	1.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4187386-3	**SDG:**	L1835192
Client Sample ID:	SD	**Collected Date/Time:**	03/11/25 10:50
Lab File ID:	20250317154108	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	CVAA9	**Preparation Date/Time:**	03/14/25 23:14
Analytical Batch:	WG2467783	**Analysis Date/Time:**	03/17/25 15:41
Dilution Factor:	5	**Prep Method:**	245.1
Analytical Method:	245.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	30 mL
Total Solids (%):	_____	**Final Wt/Vol:**	30.0 mL

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Mercury	7439-97-6	U		0.650	1.00

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W
Concentration Units:	mg/L		

	ICV				ICVLL				CCV			
Sample ID:	CVAA90314251128-3				CVAA90314251139-3				CVAA90314251915			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.005219315	104	2.250000	0.0002	0.0001602401	80.10	3.500000	0.0050	0.004805093	96.10	1.790000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W
Concentration Units:	mg/L		

		CCV				**CCV**		
Sample ID:		CVAA90314251947				CVAA90314252001		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.004802564	96.10	1.580000	0.0050	0.004789352	95.80	0.624000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W
Concentration Units:	mg/L		

	ICV				**ICVLL**				**CCVLL**			
Sample ID:	CVAA90317251200-3				CVAA90317251211-3				CVAA90317251349-3			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.004993726	99.90	2.540000	0.0002	0.0001817068	90.90	0.826000	0.0002	0.0001680339	84	8.870000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W
Concentration Units:	mg/L		

		CCV				**CCV**				**CCVLL**			
Sample ID:		CVAA90317251447-2				CVAA90317251518-2				CVAA90317251523-2			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.004632348	92.60	3.040000	0.0050	0.00452595	90.50	2.870000	0.0002	0.0001573009	78.70	7.410000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W
Concentration Units:	mg/L		

		CCVLL				**CCV**				**CCV**			
Sample ID:		CVAA90317251532-2				CVAA90317251602				CVAA90317251631			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0002	0.0001550408	77.50	12.400000	0.0050	0.004920436	98.40	2.110000	0.0050	0.004927531	98.60	3.320000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCVLL Limits: 70 - 130 CCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W
Concentration Units:	mg/L		

		CCV				**CCVLL**		
Sample ID:		CVAA90317251705				CVAA90317251710		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0050	0.004942518	98.90	6.140000	0.0002	0.0001696656	84.80	8.240000

ICV Limits: 95 - 105 ICVLL Limits: 70 - 130 CCVLL Limits: 70 - 130 CCV Limits: 90 - 110

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W

	Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
	File ID:	20250314113113-3		20250314191823		20250314195023		20250314200348	
Analyte		mg/L		mg/L		mg/L		mg/L	
MERCURY		-0.00003376352	U	-0.00002052937	U	0.00001462153	U	0.0000112257	U

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W

	Sample ID:	**BLANK Result**	**BLANK Qual**
	File ID:	20250314192340	
Analyte		mg/l	
MERCURY		U	

SDG:	L1835192	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20250317120327-3		20250317145023-2		20250317151601		20250317152106-2	
Analyte	mg/L		mg/L		mg/l		mg/L	
MERCURY	0.00002651387	U	0.00004061941	U	U		0.00003170863	U

SDG:	L1835192	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20250317160449		20250317163434		20250317170751	
Analyte	mg/L		mg/L		mg/L	
MERCURY	0.00009764157	U	0.0000590494	U	0.000111194	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835192-01,02

SAMPLE NO.:
R4186741-4
R4186741-5

MS Sample / File ID:	R4186741-4 / 20250314193415	**SDG:**	L1835192
MSD Sample / File ID:	R4186741-5 / 20250314193657	**Analytical Batch:**	WG2467784
OS Sample / File ID:	L1835142-07 / 20250314192904	**Matrix:**	WW
Instrument ID:	CVAA9		
Analytical Method:	245.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Mercury,Dissolved	3.00	U	2.84	2.99	94.7	99.6	1	70.0 - 130	5.02	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835192-01,02,03

SAMPLE NO.:
R4187386-4
R4187386-5

MS Sample / File ID:	R4187386-4 / 20250317154335	**SDG:**	L1835192
MSD Sample / File ID:	R4187386-5 / 20250317154615	**Analytical Batch:**	WG2467783
OS Sample / File ID:	L1835052-03 / 20250317153829	**Matrix:**	WW
Instrument ID:	CVAA9		
Analytical Method:	245.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Mercury	3.00	U	2.86	3.01	95.2	100	1	70.0 - 130	5.30	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835192-01,02,03

SAMPLE NO.:
R4187386-6
R4187386-7

MS Sample / File ID:	R4187386-6 / 20250317155134	**SDG:**	L1835192
MSD Sample / File ID:	R4187386-7 / 20250317155413	**Analytical Batch:**	WG2467783
OS Sample / File ID:	L1835053-06 / 20250317154854	**Matrix:**	WW
Instrument ID:	CVAA9		
Analytical Method:	245.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Mercury	3.00	U	2.90	2.97	96.8	99.0	1	70.0 - 130	2.28	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835192-01,02

SAMPLE NO.:
R4186741-2

LCS Sample / File ID:	R4186741-2 / 20250314192621	**SDG:**	L1835192
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467784
Instrument ID:	CVAA9	**Dilution Factor:**	1
Analytical Method:	245.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Mercury,Dissolved	3.00	3.00		100		85.0 - 115		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1835192-01,02,03

SAMPLE NO.:
R4187386-8

LCS Sample / File ID:	R4187386-8 / 20250317165201	**SDG:**	L1835192
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2467783
Instrument ID:	CVAA9	**Dilution Factor:**	1
Analytical Method:	245.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Mercury	3.00	2.98		99.2		85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SD Sample / File ID:	R4186741-3 / 20250314193146	**SDG:**	L1835192
OS Sample / File ID:	L1835142-07 / 20250314192904	**Analytical Batch:**	WG2467784
Lab File ID:	20250314193146	**Dilution Factor:**	5
Instrument ID:	CVAA9	**Matrix:**	WW
Analytical Method:	245.1		

Analyte	OS Result	SD Result	RPD	RPD Limits
	ug/l	*ug/l*	*%*	*%*
Mercury,Dissolved	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ICP AND ICP/MS SERIAL DILUTIONS
L1835192-01,02,03

SD Sample / File ID:	R4187386-3 / 20250317154108	**SDG:**	L1835192
OS Sample / File ID:	L1835052-03 / 20250317153829	**Analytical Batch:**	WG2467783
Lab File ID:	20250317154108	**Dilution Factor:**	5
Instrument ID:	CVAA9	**Matrix:**	WW
Analytical Method:	245.1		

Analyte	OS Result	SD Result	RPD	RPD Limits
	ug/l	*ug/l*	*%*	*%*
Mercury	U	U	0.000	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835192-01,02,03 **Analytical Method:** 245.1

Matrix: WW **Prep Method:** 245.1

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/l	*mg/l*
Mercury	7439-97-6		253.70	0.000130	0.0002
Mercury,Dissolved	7439-97-6		253.70	0.000130	0.0002

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1835192	**Analytical Method:**	245.1
Instrument ID:	CVAA9	**Date:**	07/10/23 14:11

Analyte	LDR
	ppm
MERCURY	0.01

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	245.1
Instrument ID:	CVAA9	**Calibration Start Date:**	03/14/25 11:00
Analytical Run:	031425CVAA9 W	**Calibration End Date:**	03/14/25 11:13

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	CVAA90314251058	20250314105806	03/14/25 10:58		
CAL	STD 0.2	20250314110042	03/14/25 11:00		
CAL	STD 0.4	20250314110319	03/14/25 11:03		
CAL	STD 1.0	20250314110556	03/14/25 11:05		
CAL	STD 2.0	20250314110834	03/14/25 11:08		
CAL	STD 5.0	20250314111114	03/14/25 11:11		
CAL	STD 10.0	20250314111351	03/14/25 11:13		
ICV	CVAA90314251128-3	20250314112835-3	03/14/25 11:28		
ICB	CVAA90314251131-3	20250314113113-3	03/14/25 11:31		
ICVLL	CVAA90314251139-3	20250314113902-3	03/14/25 11:39		
CCV	CVAA90314251915	20250314191546	03/14/25 19:15		
CCB	CVAA90314251918	20250314191823	03/14/25 19:18		
L1834725-03	L1834725-03	20250314192059	03/14/25 19:20	10	WG2466870
BLANK	R4186741-1	20250314192340	03/14/25 19:23	1	WG2467784
LCS	R4186741-2	20250314192621	03/14/25 19:26	1	WG2467784
OS	L1835142-07	20250314192904	03/14/25 19:29		
L1835142-07	L1835142-07	20250314192904	03/14/25 19:29	1	WG2467784
SD	R4186741-3	20250314193146	03/14/25 19:31	5	WG2467784
MS	R4186741-4	20250314193415	03/14/25 19:34	1	WG2467784
MSD	R4186741-5	20250314193657	03/14/25 19:36	1	WG2467784
L1835142-02	L1835142-02	20250314193939	03/14/25 19:39	1	WG2467784
L1835142-04	L1835142-04	20250314194221	03/14/25 19:42	1	WG2467784
MONTROSE-LAKE-I-SW	L1835192-01	20250314194504	03/14/25 19:45	1	WG2467784
CCV	CVAA90314251947	20250314194745	03/14/25 19:47		
CCB	CVAA90314251950	20250314195023	03/14/25 19:50		
DEEPWATER-I-SW	L1835192-02	20250314195829	03/14/25 19:58	1	WG2467784
CCV	CVAA90314252001	20250314200111	03/14/25 20:01		
CCB	CVAA90314252003	20250314200348	03/14/25 20:03		

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	245.1
Instrument ID:	CVAA9	**Calibration Start Date:**	03/17/25 11:31
Analytical Run:	031725CVAA9 W	**Calibration End Date:**	03/17/25 11:44

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	CVAA90317251129	20250317112913	03/17/25 11:29		
CAL	STD 0.2	20250317113149	03/17/25 11:31		
CAL	STD 0.4	20250317113425	03/17/25 11:34		
CAL	STD 1.0	20250317113702	03/17/25 11:37		
CAL	STD 2.0	20250317113941	03/17/25 11:39		
CAL	STD 5.0	20250317114219	03/17/25 11:42		
CAL	STD 10.0	20250317114456	03/17/25 11:44		
ICV	CVAA90317251200-3	20250317120050-3	03/17/25 12:00		
ICB	CVAA90317251203-3	20250317120327-3	03/17/25 12:03		
ICVLL	CVAA90317251211-3	20250317121117-3	03/17/25 12:11		
CCVLL	CVAA90317251349-3	20250317134918-3	03/17/25 13:49		
CCV	CVAA90317251447-2	20250317144746-2	03/17/25 14:47		
CCB	CVAA90317251450-2	20250317145023-2	03/17/25 14:50		
BLANK	R4187326-1	20250317145753	03/17/25 14:57	1	WG2470224
LCS	R4187326-2	20250317150019	03/17/25 15:00	1	WG2470224
OS	L1835907-01	20250317150259	03/17/25 15:02		
L1835907-01	L1835907-01	20250317150259	03/17/25 15:02	1	WG2470224
SD	R4187326-3	20250317150538	03/17/25 15:05	5	WG2470224
MS	R4187326-4	20250317150804	03/17/25 15:08	1	WG2470224
MSD	R4187326-5	20250317151043	03/17/25 15:10	1	WG2470224
L1835907-02	L1835907-02	20250317151322	03/17/25 15:13	1	WG2470224
BLANK	R4187386-1	20250317151601	03/17/25 15:16	1	WG2467783
CCV	CVAA90317251518-2	20250317151829-2	03/17/25 15:18		
CCB	CVAA90317251521-2	20250317152106-2	03/17/25 15:21		
CCVLL	CVAA90317251523-2	20250317152341-2	03/17/25 15:23		
CCVLL	CVAA90317251532-2	20250317153203-2	03/17/25 15:32		
OS	L1835052-03	20250317153829	03/17/25 15:38		
L1835052-03	L1835052-03	20250317153829	03/17/25 15:38	1	WG2467783
SD	R4187386-3	20250317154108	03/17/25 15:41	5	WG2467783
MS	R4187386-4	20250317154335	03/17/25 15:43	1	WG2467783
MSD	R4187386-5	20250317154615	03/17/25 15:46	1	WG2467783
OS	L1835053-06	20250317154854	03/17/25 15:48		
L1835053-06	L1835053-06	20250317154854	03/17/25 15:48	1	WG2467783
MS	R4187386-6	20250317155134	03/17/25 15:51	1	WG2467783
MSD	R4187386-7	20250317155413	03/17/25 15:54	1	WG2467783
L1834826-01	L1834826-01	20250317155652	03/17/25 15:56	1	WG2467783
L1834838-01	L1834838-01	20250317155931	03/17/25 15:59	1	WG2467783
CCV	CVAA90317251602	20250317160211	03/17/25 16:02		
CCB	CVAA90317251604	20250317160449	03/17/25 16:04		
L1834847-01	L1834847-01	20250317160724	03/17/25 16:07	1	WG2467783
L1834972-01	L1834972-01	20250317160952	03/17/25 16:09	1	WG2467783
L1834974-01	L1834974-01	20250317161218	03/17/25 16:12	1	WG2467783
L1834976-01	L1834976-01	20250317161446	03/17/25 16:14	1	WG2467783
L1835004-01	L1835004-01	20250317161713	03/17/25 16:17	30	WG2467783
L1835142-01	L1835142-01	20250317161940	03/17/25 16:19	1	WG2467783
L1835142-03	L1835142-03	20250317162208	03/17/25 16:22	1	WG2467783
L1835142-05	L1835142-05	20250317162435	03/17/25 16:24	1	WG2467783
L1835142-06	L1835142-06	20250317162703	03/17/25 16:27	1	WG2467783
MONTROSE-LAKE-I-SW	L1835192-01	20250317162930	03/17/25 16:29	1	WG2467783
CCV	CVAA90317251631	20250317163156	03/17/25 16:31		
CCB	CVAA90317251634	20250317163434	03/17/25 16:34		

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	245.1
Instrument ID:	CVAA9	**Calibration Start Date:**	03/17/25 11:31
Analytical Run:	031725CVAA9 W	**Calibration End Date:**	03/17/25 11:44

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
DEEPWATER-I-SW	L1835192-02	20250317163711	03/17/25 16:37	1	WG2467783
TRUMAN-I-SW	L1835192-03	20250317163938	03/17/25 16:39	1	WG2467783
L1835197-01	L1835197-01	20250317164206	03/17/25 16:42	1	WG2467783
LCS	R4187386-8	20250317165201	03/17/25 16:52	1	WG2467783
CCV	CVAA90317251705	20250317170514	03/17/25 17:05		
CCB	CVAA90317251707	20250317170751	03/17/25 17:07		
CCVLL	CVAA90317251710	20250317171027	03/17/25 17:10		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
MERCURY	0.0002	.00016436	82.20	0.0004	.0004141448	104
File ID:		20250314110042			20250314110319	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
MERCURY	0.0010	.001032995	103	0.0020	.001998152	99.90
File ID:		20250314110556			20250314110834	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
MERCURY	0.0050	.005071333	101	0.01	.009961549	99.60
File ID:		20250314111114			20250314111351	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
MERCURY	0.0002	.0001628834	81.40	0.0004	.0003988409	99.70
File ID:		20250317113149			20250317113425	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
MERCURY	0.0010	.0009676813	96.80	0.0020	.001976586	98.80
File ID:		20250317113702			20250317113941	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
MERCURY	0.0050	.005203708	104	0.01	.009906852	99.10
File ID:		20250317114219			20250317114456	

16A-IN

INITIAL CALIBRATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/14/25 11:00
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/14/25 11:13
Analytical Method:	245.1	**Analytical Run:**	031425CVAA9 W

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
MERCURY	253.7	0	5	0.999932	12.48397	0.000531

Calibration Type

0 = Linear Regression

Weightage

5 = None

16A-IN

INITIAL CALIBRATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/17/25 11:31
Instrument ID:	CVAA9	**Calibration (end) date/time:**	03/17/25 11:44
Analytical Method:	245.1	**Analytical Run:**	031725CVAA9 W

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
MERCURY	253.7	0	5	0.99967	11.49208	0.00019

Calibration Type

0 = Linear Regression

Weightage

5 = None

Sample ID: CALIBRATION BLANK Units: mg/L
Analyzed: 03/14/25 10:58 Sequence: 1 Standard ID:

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.0001000262	0.0001748243	0.00006075172	0.00006450269

Sample ID: STD 0.2 Units: mg/L
Analyzed: 03/14/25 11:00 Sequence: 2 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.002582881	0.002742259	0.002492923	0.002513462

Sample ID: STD 0.4 Units: mg/L
Analyzed: 03/14/25 11:03 Sequence: 3 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.005701187	0.005961145	0.005583155	0.005559261

Sample ID: STD 1.0 Units: mg/L
Analyzed: 03/14/25 11:05 Sequence: 4 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.01342689	0.01388519	0.01318926	0.01320621

Sample ID: STD 2.0 Units: mg/L
Analyzed: 03/14/25 11:08 Sequence: 5 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.02547589	0.02610824	0.02515833	0.02516111

Sample ID: STD 5.0 Units: mg/L
Analyzed: 03/14/25 11:11 Sequence: 6 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.06384139	0.06562882	0.06326591	0.06262944

Sample ID: STD 10.0 Units: mg/L
Analyzed: 03/14/25 11:13 Sequence: 7 Standard ID: 25C07040

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.1248907	0.1283053	0.1232495	0.1231172

Sample ID: ICV-3 Units: mg/L
Analyzed: 03/14/25 11:28 Sequence: 8 Standard ID: 25C07039

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06568877	0.005219315	0.005354635	0.005159866	0.005143444

Sample ID: ICB-3 Units: mg/L
Analyzed: 03/14/25 11:31 Sequence: 9

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001095163	-0.00003376352	-0.00003153861	-0.00003320018	-0.00003655177

Sample ID: ICVLL-3 Units: mg/L
Analyzed: 03/14/25 11:39 Sequence: 12 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002531451	0.0001602401	0.0001662400	0.0001593443	0.0001551361

Sample ID: CCV Units: mg/L
Analyzed: 03/14/25 19:15 Sequence: 179 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06051764	0.004805093	0.004903262	0.004770524	0.004741494

Sample ID: CCB Units: mg/L
Analyzed: 03/14/25 19:18 Sequence: 180

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002747309	-0.00002052937	0.00003669156	-0.00004824808	-0.00005003161

Sample ID: L1834725-03 DF: 1x bench / 10x total Batch: WG2466870 Units: mg/l
Analyzed: 03/14/25 19:20 Sequence: 181

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001356727	-0.00003166832	-0.00002790762	-0.00003416674	-0.00003293059

Sample ID: BLANK DF: 1x Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:23 Sequence: 182

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00006301901	-0.00003748808	-0.00003795936	-0.00003624655	-0.00003825832

Sample ID: LCS DF: 1x Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:26 Sequence: 183

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03800863	0.003002059	0.003073912	0.002960402	0.002971864

Sample ID: L1835142-07 DF: 1x Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:29 Sequence: 184

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0007491936	0.00001747640	0.0001153661	-0.00003055375	-0.00003238316

Sample ID: SD DF: 5x Ref Sample ID: L1835142-07 Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:31 Sequence: 185

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.00002940980	-0.00004489188	-0.0002149083	-0.0002246863	-0.0002337835

Sample ID: MS DF: 1x Ref Sample ID: L1835142-07 Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:34 Sequence: 186

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03599997	0.002841161	0.002919631	0.002818497	0.002785355

Sample ID: MSD DF: 1x Ref Sample ID: L1835142-07 Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:36 Sequence: 187

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03782485	0.002987338	0.003139349	0.002927511	0.002895155

Sample ID: L1835142-02 DF: 1x Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:39 Sequence: 188

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0006227812	0.000007350415	0.00009371715	-0.00003276568	-0.00003890023

Sample ID: L1835142-04 DF: 1x Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:42 Sequence: 189

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00007770840	-0.00003631142	-0.00003255337	-0.00003624392	-0.00004013697

Sample ID: L1835192-01 DF: 1x Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:45 Sequence: 190

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.00006988437	-0.00003693814	-0.00003258464	-0.00004028452	-0.00003794527

Sample ID: CCV Units: mg/L
Analyzed: 03/14/25 19:47 Sequence: 191 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06048607	0.004802564	0.004889952	0.004764606	0.004753135

Sample ID: CCB Units: mg/L
Analyzed: 03/14/25 19:50 Sequence: 192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0007135535	0.00001462153	0.0001394170	-0.00004797211	-0.00004758031

Sample ID: L1835192-02 DF: 1x Batch: WG2467784 Units: mg/l
Analyzed: 03/14/25 19:58 Sequence: 194

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001508636	-0.00003045148	-0.00002071716	-0.00003776328	-0.00003287401

Sample ID: CCV Units: mg/L
Analyzed: 03/14/25 20:01 Sequence: 195 Standard ID: 25C07040

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.06032113	0.004789352	0.004822931	0.004765702	0.004779424

Sample ID: CCB Units: mg/L
Analyzed: 03/14/25 20:03 Sequence: 196

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0006711602	0.00001122570	0.0001247218	-0.00004601069	-0.00004503405

Sample ID: CALIBRATION BLANK Units: mg/L
Analyzed: 03/17/25 11:29 Sequence: 1 Standard ID:

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.0004524961	0.0003720710	0.0002986945	0.0006867227

Sample ID: STD 0.2 Units: mg/L
Analyzed: 03/17/25 11:31 Sequence: 2 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.002062038	0.002238719	0.001967372	0.001980021

Sample ID: STD 0.4 Units: mg/L
Analyzed: 03/17/25 11:34 Sequence: 3 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.004773680	0.004971102	0.004691020	0.004658918

Sample ID: STD 1.0 Units: mg/L
Analyzed: 03/17/25 11:37 Sequence: 4 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.01131084	0.01171291	0.01109190	0.01112771

Sample ID: STD 2.0 Units: mg/L
Analyzed: 03/17/25 11:39 Sequence: 5 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.02290525	0.02359548	0.02249915	0.02262113

Sample ID: STD 5.0 Units: mg/L
Analyzed: 03/17/25 11:42 Sequence: 6 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.05999160	0.06153422	0.05924663	0.05919395

Sample ID: STD 10.0 Units: mg/L
Analyzed: 03/17/25 11:44 Sequence: 7 Standard ID: 25C14192

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	0.1140405	0.1175277	0.1123275	0.1122663

Sample ID: ICV-3 Units: mg/L
Analyzed: 03/17/25 12:00 Sequence: 8 Standard ID: 25C14191

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05757848	0.004993726	0.005139267	0.004907696	0.004934214

Sample ID: ICB-3 Units: mg/L
Analyzed: 03/17/25 12:03 Sequence: 9

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0004948678	0.00002651387	0.00004361459	0.00001953203	0.00001639499

Sample ID: ICVLL-3 Units: mg/L
Analyzed: 03/17/25 12:11 Sequence: 12 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002278357	0.0001817068	0.0001832507	0.0001816157	0.0001802539

Sample ID: CCVLL-3 Units: mg/L
Analyzed: 03/17/25 13:49 Sequence: 49 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002121227	0.0001680339	0.0001849771	0.0001569657	0.0001621587

Sample ID: CCV-2 Units: mg/L
Analyzed: 03/17/25 14:47 Sequence: 72 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05342549	0.004632348	0.004793187	0.004532266	0.004571590

Sample ID: CCB-2 Units: mg/L
Analyzed: 03/17/25 14:50 Sequence: 73

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0006569698	0.00004061941	0.0001510693	-0.00001319052	-0.00001602058

Sample ID: BLANK DF: 1x Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 14:57 Sequence: 76

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0002632282	-0.00003945294	-0.00003190752	-0.00004368874	-0.00004276255

Sample ID: LCS DF: 1x Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 15:00 Sequence: 77

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03069148	0.002654115	0.002743486	0.002599333	0.002619526

Sample ID: L1835907-01 DF: 1x Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 15:02 Sequence: 78

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0002973965	0.000009330626	0.00009499925	-0.00003203672	-0.00003497065

Sample ID: SD DF: 5x Ref Sample ID: L1835907-01 Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 15:05 Sequence: 79

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0003769283	-0.00004934672	-0.0002252887	-0.0002600503	-0.0002548617

Sample ID: MS DF: 1x Ref Sample ID: L1835907-01 Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 15:08 Sequence: 80

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03186760	0.002756457	0.002884858	0.002690645	0.002693869

Sample ID: MSD DF: 1x Ref Sample ID: L1835907-01 Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 15:10 Sequence: 81

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03121675	0.002699823	0.002887040	0.002603423	0.002609005

Sample ID: L1835907-02 DF: 1x Batch: WG2470224 Units: mg/l
Analyzed: 03/17/25 15:13 Sequence: 82

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0005469567	0.00003104646	0.0001463900	-0.00002545387	-0.00002779676

Sample ID: BLANK DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:16 Sequence: 83

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0002073641	-0.00003459184	-0.00003371634	-0.00003492161	-0.00003513759

Sample ID: CCV-2 Units: mg/L
Analyzed: 03/17/25 15:18 Sequence: 84 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05220276	0.004525950	0.004673682	0.004428471	0.004475699

Sample ID: CCB-2 Units: mg/L
Analyzed: 03/17/25 15:21 Sequence: 85

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0005545664	0.00003170863	0.0001123539	-0.000002702000	-0.00001452597

Sample ID: CCVLL-2 Units: mg/L
Analyzed: 03/17/25 15:23 Sequence: 86 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001997883	0.0001573009	0.0001707387	0.0001512859	0.0001498780

Sample ID: CCVLL-2 Units: mg/L
Analyzed: 03/17/25 15:32 Sequence: 87 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001971910	0.0001550408	0.0001772213	0.0001436928	0.0001442083

Sample ID: L1835052-03 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:38 Sequence: 89

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0007817158	0.00005147436	0.0001999081	-0.00001470588	-0.00003077916

Sample ID: SD DF: 5x Ref Sample ID: L1835052-03 Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:41 Sequence: 90

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0003278904	-0.00004507961	-0.0001757897	-0.0002444048	-0.0002559996

Sample ID: MS DF: 1x Ref Sample ID: L1835052-03 Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:43 Sequence: 91

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03301685	0.002856461	0.003033938	0.002778399	0.002757045

Sample ID: MSD DF: 1x Ref Sample ID: L1835052-03 Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:46 Sequence: 92

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03480486	0.003012047	0.003224604	0.002898541	0.002912996

Sample ID: L1835053-06 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:48 Sequence: 93

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0004477901	0.00002241734	0.00008316212	-0.0000003927099	-0.00001551741

Sample ID: MS DF: 1x Ref Sample ID: L1835053-06 Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:51 Sequence: 94

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03356459	0.002904123	0.003004156	0.002839655	0.002868559

Sample ID: MSD DF: 1x Ref Sample ID: L1835053-06 Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:54 Sequence: 95

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03433355	0.002971035	0.003156847	0.002907616	0.002848643

Sample ID: L1834826-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:56 Sequence: 96

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0006873075	0.00004325929	0.0001829514	-0.00002337972	-0.00002979386

Sample ID: L1834838-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 15:59 Sequence: 97

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0001643716	-0.000002244729	0.00001142388	-0.000007089727	-0.00001106834

Sample ID: CCV Units: mg/L
Analyzed: 03/17/25 16:02 Sequence: 98 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05673622	0.004920436	0.005039018	0.004846948	0.004875342

Sample ID: CCB Units: mg/L
Analyzed: 03/17/25 16:04 Sequence: 99

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001312273	0.00009764157	0.0002974370	-0.000002694069	-0.000001818215

Sample ID: L1834847-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:07 Sequence: 100

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0001012287	-0.00002535632	-0.00001855784	-0.00002611535	-0.00003139578

Sample ID: L1834972-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:09 Sequence: 101

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.00009091090	-0.00002445850	-0.00002421597	-0.00002460123	-0.00002455831

Sample ID: L1834974-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:12 Sequence: 102

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.00005819613	-0.00002161178	-0.00002222356	-0.00002033514	-0.00002227664

Sample ID: L1834976-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:14 Sequence: 103

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.00004599821	-0.00002055036	-0.000009408410	-0.00002499186	-0.00002725081

Sample ID: L1835004-01 DF: 1x bench / 30x total Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:17 Sequence: 104

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.00009402260	-0.00002472927	-0.00001718395	-0.00003169739	-0.00002530647

Sample ID: L1835142-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:19 Sequence: 105

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0002112345	-0.00003492863	-0.00003037177	-0.00003469711	-0.00003971701

Sample ID: L1835142-03 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:22 Sequence: 106

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0002125912	-0.00003504669	-0.00003232149	-0.00003722165	-0.00003559692

Sample ID: L1835142-05 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:24 Sequence: 107

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0001648672	-0.00003089391	-0.00002445788	-0.00003307804	-0.00003514582

Sample ID: L1835142-06 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:27 Sequence: 108

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0001729506	-0.00003159730	-0.00002800640	-0.00003400677	-0.00003277874

Sample ID: L1835192-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:29 Sequence: 109

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0001601698	-0.00003048516	-0.00002497521	-0.00003387014	-0.00003261014

Sample ID: CCV Units: mg/L
Analyzed: 03/17/25 16:31 Sequence: 110 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05681776	0.004927531	0.005115908	0.004819285	0.004847398

Sample ID: CCB Units: mg/L
Analyzed: 03/17/25 16:34 Sequence: 111

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.0008687687	0.00005904940	0.0002114325	-0.00001739540	-0.00001688888

Sample ID: L1835192-02 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:37 Sequence: 112

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.00009231885	-0.00002458102	-0.00002358082	-0.00002553892	-0.00002462331

Sample ID: L1835192-03 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:39 Sequence: 113

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0001334137	-0.00002815695	-0.00002433294	-0.00002771681	-0.00003242109

Sample ID: L1835197-01 DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:42 Sequence: 114

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	-0.0001166521	-0.00002669841	-0.00001865437	-0.00003108716	-0.00003035369

Sample ID: LCS DF: 1x Batch: WG2467783 Units: mg/l
Analyzed: 03/17/25 16:52 Sequence: 117

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.03439426	0.002976318	0.003198333	0.002864911	0.002865708

Sample ID: CCV Units: mg/L
Analyzed: 03/17/25 17:05 Sequence: 122 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.05698999	0.004942518	0.005283638	0.004841778	0.004702136

Sample ID: CCB Units: mg/L
Analyzed: 03/17/25 17:07 Sequence: 123

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.001468019	0.0001111940	0.0003335773	0.000004368664	-0.000004363971

Sample ID: CCVLL Units: mg/L
Analyzed: 03/17/25 17:10 Sequence: 124 Standard ID: 25C14192

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY	0.002139979	0.0001696656	0.0001855310	0.0001591594	0.0001643063

245.1 WW HG Metals Prep Benchsheet

Batch: WG2466870

Analyst: NDL4057 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Hotblock ID:** MPN **15min KMNO4 HoldTime:** 03/13/25 18:01:44
Hotblock Time On: 03/13/25 18:16:44 **Uncorrected Temp On:** 92 **Corrected Temp On:** 93 **Hotblock Time Off:** 03/13/25 20:16:44 **Uncorrected Temp Off:** 94
Corrected Temp Off: 95 **Thermometer Correction Factor:** +1.0 **Filter Lot#:** NA **pH Lot #:** 10BDH40241 **Prep Date:** 03/13/25 16:38-16:42
Prep End Date/Time: 03/13/25 22:41 **Calibration and Instrument Stds:** 25C13019 **SOP:** ENV-SOP-MTJL-0212 **Method:** 245.1 **Thermometer ID#:** 918848
Pipette Tip Lot#: 24400014 **Cal and Stds Workgroup:** WG2468225 **Thermometer Location:** C6 **Pipette ID:** F13609441 **Repeat Pipette ID:** 24B38914
Repeat Pipette Tip Lot#: N215100J

LCS/MS Spike: 25C07039 Amt. Used: 90 uL Exp. Date:03/14/25 **HNO3:** 25C04557 Amt. Used: 0.75 mL Exp. Date:09/04/25
H2SO4: 25C04556 Amt. Used: 1.50 mL Exp. Date:09/04/25 **KMNO4:** 25C12810 Amt. Used: 5 mL Exp. Date:03/19/25
K2S2O8: 25C10323 Amt. Used: 2.50 mL Exp. Date:03/17/25 **H8N2O6S:** 25C12815 Amt. Used: 2 mL Exp. Date:03/19/25 **SnCl:** 25C13023 mL Exp. Date:03/13/25
HCl: 25C13024 mL Exp. Date:03/13/25

Sample ID	Sample Matrix	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK		30	30.0	DI WATER	~7	SDG4113	03/13/25 22:42:06
LCS		30	30.0	DI WATER	~7	SDG4113	03/13/25 22:42:06
MS(L1834323-01)		30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
MS(L1834451-01)		30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
MSD(L1834323-01)		30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
MSD(L1834451-01)		30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
1. L1834323-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
2. L1834368-01	WW	30	30.0	BROWN	<2	SDG4113	03/13/25 22:42:06
3. L1834393-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
4. L1834400-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
5. L1834428-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
6. L1834451-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
7. L1834455-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
8. L1834624-01	WW	30	30.0	YELLOW	<2	SDG4113	03/13/25 22:42:06
9. L1834629-01	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
10. L1834629-02	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
11. L1834640-01	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
12. L1834640-02	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
13. L1834640-03	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
14. L1834640-04	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
15. L1834640-05	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
16. L1834640-06	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
17. L1834701-01	WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/13/25 22:42:06
18. L1834725-01	WW	3	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
19. L1834725-02	WW	3	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06
20. L1834725-03	WW	3	30.0	CLEAR	<2	SDG4113	03/13/25 22:42:06

Comments:
L1834725-01, L1834725-02, & L1834725-03 prepped at 3mL due to low volume. -SDG4113

Reviewed By:SDG4113 on 03/13/25 22:42:06

245.1 WW HG Metals Prep Benchsheet

Batch: WG2467783

Analyst: SDG4113 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Hotblock ID:** MPC **15min KMNO4 HoldTime:** 03/16/25 20:45:42
Hotblock Time On: 03/16/25 21:00:42 **Uncorrected Temp On:** 94 **Corrected Temp On:** 94 **Hotblock Time Off:** 03/16/25 23:00:42 **Uncorrected Temp Off:** 98
Corrected Temp Off: 98 **Thermometer Correction Factor:** 0.0 **Filter Lot#:** NA **pH Lot #:** 10BDH40241 **Prep Date:** 03/14/25 22:59-23:14
Prep End Date/Time: 03/16/25 23:12 **Calibration and Instrument Stds:** 25C14197 **SOP:** ENV-SOP-MTJL-0212 **Method:** 245.1 **Thermometer ID#:** 6426746
Pipette Tip Lot#: 24400014 **Cal and Stds Workgroup:** WG2470117 **Thermometer Location:** D2 **Pipette ID:** F13609441 **Repeat Pipette ID:** 24B38914
Repeat Pipette Tip Lot#: N215100J

LCS/MS Spike: 25C14191 Amt. Used: 90 uL Exp. Date:03/21/25 **HNO3:** 25C04557 Amt. Used: 0.75 mL Exp. Date:09/04/25
H2SO4: 25C04556 Amt. Used: 1.50 mL Exp. Date:09/04/25 **KMNO4:** 25C13087 Amt. Used: 5 mL Exp. Date:03/20/25
K2S2O8: 25C10323 Amt. Used: 2.50 mL Exp. Date:03/17/25 **H8N2O6S:** 25C12815 Amt. Used: 2 mL Exp. Date:03/19/25 **SnCl:** 25C16369 mL Exp. Date:03/16/25
HCl: 25C16370 mL Exp. Date:03/16/25

Sample ID	Prep Flags	Sample Matrix	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK			30	30.0	DI WATER	~7	SDG4113	03/16/25 23:12:37
LCS			30	30.0	DI WATER	~7	SDG4113	03/16/25 23:12:37
MS(L1835052-03)			30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
MS(L1835053-06)			30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
MSD(L1835052-03)			30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
MSD(L1835053-06)			30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
1. L1834826-01		WW	30	30.0	GREY	<2	SDG4113	03/16/25 23:12:37
2. L1834838-01		WW	30	30.0	YELLOW	<2	SDG4113	03/16/25 23:12:37
3. L1834847-01		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
4. L1834972-01		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
5. L1834974-01		WW	30	30.0	BROWN	<2	SDG4113	03/16/25 23:12:37
6. L1834976-01		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
7. L1835004-01	T2	WW	1	30.0	DARK YELLOW	6	SDG4113	03/16/25 23:12:37
8. L1835052-03		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
9. L1835053-06		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
10. L1835142-01		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
11. L1835142-03		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
12. L1835142-05		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
13. L1835142-06		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
14. L1835192-01		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
15. L1835192-02		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
16. L1835192-03		WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:12:37
17. L1835197-01		WW	30	30.0	LIGHT YELLOW	<2	SDG4113	03/16/25 23:12:37

Comments:
L1835004-01 prepped at 1mL due to reaction to KMNO4. -SDG4113

Reviewed By:SDG4113 on 03/16/25 23:12:37

245.1 WW HGD Metals Prep Benchsheet

Batch: WG2467784

Analyst: NDL4057 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5015-LC **Hotblock ID:** HG1 **15min KMNO4 HoldTime:** 03/13/25 18:01:54
Hotblock Time On: 03/13/25 18:16:54 **Uncorrected Temp On:** 96 **Corrected Temp On:** 96 **Hotblock Time Off:** 03/13/25 20:16:54 **Uncorrected Temp Off:** 98
Corrected Temp Off: 98 **Thermometer Correction Factor:** 0.0 **Filter Lot#:** NA **pH Lot #:** 10BDH40241 **Prep Date:** 03/13/25 16:48-16:51
Prep End Date/Time: 03/13/25 22:41 **Calibration and Instrument Stds:** 25C13019 **Method:** 245.1 **SOP:** ENV-SOP-MTJL-0212 **Thermometer ID#:** 1042439
Pipette Tip Lot#: 24400014 **Cal and Stds Workgroup:** WG2468225 **Thermometer Location:** C6 **Pipette ID:** F13609441 **Repeat Pipette ID:** 24B38914
Repeat Pipette Tip Lot#: N215100J

LCS/MS Spike: 25C07039 Amt. Used: 90 uL Exp. Date:03/14/25 **HNO3:** 25C04557 Amt. Used: 0.75 mL Exp. Date:09/04/25
H2SO4: 25C04556 Amt. Used: 1.50 mL Exp. Date:09/04/25 **KMNO4:** 25C12810 Amt. Used: 5 mL Exp. Date:03/19/25
K2S2O8: 25C10323 Amt. Used: 2.50 mL Exp. Date:03/17/25 **H8N2O6S:** 25C12815 Amt. Used: 2 mL Exp. Date:03/19/25 **SnCl:** 25C13023 mL Exp. Date:03/13/25
HCl: 25C13024 mL Exp. Date:03/13/25

Sample ID	Sample Matrix	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK		30	30.0	DI WATER	~7	SDG4113	03/13/25 22:41:35
LCS		30	30.0	DI WATER	~7	SDG4113	03/13/25 22:41:35
MS(L1835142-07)		30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35
MSD(L1835142-07)		30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35
1. L1835142-02	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35
2. L1835142-04	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35
3. L1835142-07	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35
4. L1835192-01	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35
5. L1835192-02	WW	30	30.0	CLEAR	<2	SDG4113	03/13/25 22:41:35

Comments:

Reviewed By:SDG4113 on 03/13/25 22:41:35

245.1 WW HG Metals Prep Benchsheet

Batch: WG2470224

Analyst: SDG4113 **Balance ID:** METBAL10 **Vessel ESC Lot ID:** LV24080204-F-5017-IM **Hotblock ID:** MPC **15min KMNO4 HoldTime:** 03/16/25 20:45:35
Hotblock Time On: 03/16/25 21:00:40 **Uncorrected Temp On:** 94 **Corrected Temp On:** 94 **Hotblock Time Off:** 03/16/25 23:00:44 **Uncorrected Temp Off:** 98
Corrected Temp Off: 98 **Thermometer Correction Factor:** 0.0 **Filter Lot#:** NA **pH Lot #:** 10BDH40241 **Prep Date:** 03/16/25 19:47
Prep End Date/Time: 03/16/25 23:13 **Calibration and Instrument Stds:** 25C14197 **SOP:** ENV-SOP-MTJL-0212 **Method:** 245.1 **Thermometer ID#:** 6426746
Pipette Tip Lot#: 24400014 **Cal and Stds Workgroup:** WG2470117 **Thermometer Location:** D2 **Pipette ID:** F13609441 **Repeat Pipette ID:** 24B38914
Repeat Pipette Tip Lot#: N215100J

LCS/MS Spike: 25C14191 Amt. Used: 90 uL Exp. Date:03/21/25 **HNO3:** 25C04557 Amt. Used: 0.75 mL Exp. Date:09/04/25
H2SO4: 25C04556 Amt. Used: 1.50 mL Exp. Date:09/04/25 **KMNO4:** 25C13087 Amt. Used: 5 mL Exp. Date:03/20/25
K2S2O8: 25C10323 Amt. Used: 2.50 mL Exp. Date:03/17/25 **H8N2O6S:** 25C12815 Amt. Used: 2 mL Exp. Date:03/19/25 **SnCl:** 25C16369 mL Exp. Date:03/16/25
HCl: 25C16370 mL Exp. Date:03/16/25

Sample ID	Sample Matrix	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date
BLANK		30	30.0	DI WATER	~7	SDG4113	03/16/25 23:14:03
LCS		30	30.0	DI WATER	~7	SDG4113	03/16/25 23:14:03
MS(L1835907-01)		30	30.0	CLEAR	<2	SDG4113	03/16/25 23:14:03
MSD(L1835907-01)		30	30.0	CLEAR	<2	SDG4113	03/16/25 23:14:03
1. L1835907-01	WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:14:03
2. L1835907-02	WW	30	30.0	CLEAR	<2	SDG4113	03/16/25 23:14:03

Comments:

Reviewed By:SDG4113 on 03/16/25 23:14:03

9056 Wet Chemistry

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MONTROSE-LAKE-I-SW

Lab Sample ID:	L1835192-01	**SDG:**	L1835192
Client Sample ID:	MONTROSE-LAKE-I-SW	**Collected Date/Time:**	03/11/25 12:40
Lab File ID:	18.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/18/25 12:54
Analytical Batch:	WG2468123	**Analysis Date/Time:**	03/18/25 12:54
Dilution Factor:	5	**Prep Method:**	9056
Analytical Method:	9056	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	88200		3180	25000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
DEEPWATER-I-SW

Lab Sample ID:	L1835192-02	**SDG:**	L1835192
Client Sample ID:	DEEPWATER-I-SW	**Collected Date/Time:**	03/11/25 15:45
Lab File ID:	19.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/18/25 13:08
Analytical Batch:	WG2468123	**Analysis Date/Time:**	03/18/25 13:08
Dilution Factor:	10	**Prep Method:**	9056
Analytical Method:	9056	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	143000		6370	50000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	L1835192-03	**SDG:**	L1835192
Client Sample ID:	TRUMAN-I-SW	**Collected Date/Time:**	03/11/25 17:34
Lab File ID:	20.0000.txt	**Received Date/Time:**	03/12/25 08:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/18/25 13:21
Analytical Batch:	WG2468123	**Analysis Date/Time:**	03/18/25 13:21
Dilution Factor:	10	**Prep Method:**	9056
Analytical Method:	9056	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	42200	J	6370	50000

Sample Narrative:

Dilution due to matrix impact on instrumentation at lower dilution

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188045-1	**SDG:**	L1835192
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	16.0000.txt	**Received Date/Time:**	
Instrument ID:	IC-23	**Preparation Date/Time:**	03/18/25 12:28
Analytical Batch:	WG2468123	**Analysis Date/Time:**	03/18/25 12:28
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	9056	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	U		637	5000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188045-2	**SDG:**	L1835192
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	17.0000.txt	**Received Date/Time:**	
Instrument ID:	IC-23	**Preparation Date/Time:**	03/18/25 12:41
Analytical Batch:	WG2468123	**Analysis Date/Time:**	03/18/25 12:41
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	9056	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	39500		637	5000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188045-3	**SDG:**	L1835192
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 13:49
Lab File ID:	23.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/18/25 14:01
Analytical Batch:	WG2468123	**Analysis Date/Time:**	03/18/25 14:01
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	9056	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	16500		637	5000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188045-6	**SDG:**	L1835192
Client Sample ID:	DUP	**Collected Date/Time:**	03/11/25 13:54
Lab File ID:	27.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/18/25 14:55
Analytical Batch:	WG2468123	**Analysis Date/Time:**	03/18/25 14:55
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	9056	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	39800		637	5000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188045-4	**SDG:**	L1835192
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 13:49
Lab File ID:	24.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/18/25 14:15
Analytical Batch:	WG2468123	**Analysis Date/Time:**	03/18/25 14:15
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	9056	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	54400		637	5000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188045-7	**SDG:**	L1835192
Client Sample ID:	MS	**Collected Date/Time:**	03/11/25 13:54
Lab File ID:	28.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/18/25 15:09
Analytical Batch:	WG2468123	**Analysis Date/Time:**	03/18/25 15:09
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	9056	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	71300	J6	637	5000

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

Lab Sample ID:	R4188045-5	**SDG:**	L1835192
Client Sample ID:	MSD	**Collected Date/Time:**	03/11/25 13:49
Lab File ID:	25.0000.txt	**Received Date/Time:**	03/12/25 09:00
Instrument ID:	IC-23	**Preparation Date/Time:**	03/18/25 14:28
Analytical Batch:	WG2468123	**Analysis Date/Time:**	03/18/25 14:28
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	9056	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	MDL	RDL
		ug/l		*ug/l*	*ug/l*
Sulfate	14808-79-8	53200		637	5000

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056	**Analytical Run:**	030825B
Concentration Units:	mg/l		

SSCV

Sample ID: IC-230309250106-2

Analyte	True	Found	%R	%RSD
BROMIDE	40	39.5295	98.80	
CHLORATE	2.50	2.2565	90.30	
CHLORIDE	40	39.8348	99.60	
FLUORIDE	8	8.0915	101	
NITRATE	8	8.1098	101	
NITRITE	8	8.1004	101	
SULFATE	40	40.3796	101	

SSCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056	**Analytical Run:**	030925
Concentration Units:	mg/l		

SSCV

Sample ID: IC-230309250106

Analyte	True	Found	%R	%RSD
BROMIDE	40	39.5295	98.80	
CHLORATE	2.50	2.2565	90.30	
CHLORIDE	40	39.8348	99.60	
FLUORIDE	8	8.0915	101	
NITRATE	8	8.1098	101	
NITRITE	8	8.1004	101	
SULFATE	40	40.3796	101	

SSCV Limits: 90 - 110

CALIBRATION VERIFICATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056	**Analytical Run:**	031825
Concentration Units:	mg/l		

		ICV				**CCV**		
Sample ID:		IC-230318250827				IC-230318251616		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD
SULFATE	50	50.0814	100		50	50.7452	101	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056	**Analytical Run:**	030925

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	11.0000.txt	
Analyte	mg/l	
BROMIDE	0.3836	U
CHLORATE	0.0000	U
CHLORIDE	0.1243	U
FLUORIDE	0.01880	U
NITRATE	0.05420	U
NITRITE	0.03280	U
SULFATE	0.2010	U

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056	**Analytical Run:**	031725

Sample ID:	**ICB Result**	**ICB Qual**
File ID:	11.0000.txt-2	
Analyte	mg/l	
BROMIDE	0.3836	U
CHLORATE	0.0000	U
CHLORIDE	0.1243	U
FLUORIDE	0.01880	U
NITRATE	0.05420	U
NITRITE	0.03280	U
SULFATE	0.2010	U

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056	**Analytical Run:**	031825

	Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
	File ID:	16.0000.txt		34.0000.txt	
Analyte		mg/l		mg/l	
SULFATE		U		0.1720	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835192-01,02,03

SAMPLE NO.:
R4188045-4
R4188045-5

MS Sample / File ID:	R4188045-4 / 24.0000.txt	**SDG:**	L1835192
MSD Sample / File ID:	R4188045-5 / 25.0000.txt	**Analytical Batch:**	WG2468123
OS Sample / File ID:	L1835335-01 / 22.0000.txt	**Matrix:**	WW
Instrument ID:	IC-23		
Analytical Method:	9056		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*	*ug/l*	*%*	*%*		*%*	*%*	*%*
Sulfate	40000	16700	54400	53200	94.2	91.3	1	90.0 - 110	2.16	15

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1835192-01,02,03

SAMPLE NO.: R4188045-7

MS Sample / File ID:	R4188045-7 / 28.0000.txt	**SDG:**	L1835192
MSD Sample / File ID:	_____	**Analytical Batch:**	WG2468123
OS Sample / File ID:	L1835335-02 / 26.0000.txt	**Matrix:**	WW
Instrument ID:	IC-23		
Analytical Method:	9056		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*	*ug/l*		*%*	*%*		*%*	*%*	*%*
Sulfate	40000	40300	71300		77.4*		1	90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4188045-3 / 23.0000.txt	**SDG:**	L1835192
OS Sample / File ID:	L1835335-01 / 22.0000.txt	**Analytical Batch:**	WG2468123
Instrument ID:	IC-23	**Dilution Factor:**	1
Analytical Method:	9056	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	ug/l	*ug/l*	*%*	*%*
Sulfate	16700	16500	1.23	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DUP Sample / File ID:	R4188045-6 / 27.0000.txt	**SDG:**	L1835192
OS Sample / File ID:	L1835335-02 / 26.0000.txt	**Analytical Batch:**	WG2468123
Instrument ID:	IC-23	**Dilution Factor:**	1
Analytical Method:	9056	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	ug/l	*ug/l*	*%*	*%*
Sulfate	40300	39800	1.26	15

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1835192-01,02,03

SAMPLE NO.:
R4188045-2

LCS Sample / File ID:	R4188045-2 / 17.0000.txt	**SDG:**	L1835192
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG2468123
Instrument ID:	IC-23	**Dilution Factor:**	1
Analytical Method:	9056	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	*ug/l*		*%*	*%*	*%*	*%*	*%*
Sulfate	40000	39500		98.9		90.0 - 110		

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

DETECTION LIMIT SUMMARY

Lab Sample IDs: L1835192-01,02,03 **Analytical Method:** 9056
Matrix: WW **Prep Method:** 9056

Analyte	CAS	Wavelength	Mass	MDL	RDL
				mg/l	*mg/l*
Sulfate	14808-79-8			0.6370	5

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	9056
Instrument ID:	IC-23	**Calibration Start Date:**	_____
Analytical Run:	030825B	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	CAL 1	03.0000.TXT	03/08/25 23:32		
CAL	CAL 2	04.0000.TXT	03/08/25 23:46		
CAL	CAL 3	05.0000.TXT	03/08/25 23:59		
CAL	CAL 4	06.0000.TXT	03/09/25 00:13		
CAL	CAL 5	07.0000.TXT	03/09/25 00:26		
CAL	CAL 6	08.0000.TXT	03/09/25 00:39		
CAL	CAL 7	09.0000.TXT	03/09/25 00:53		
SSCV	IC-230309250106-2	10.0000.txt-2	03/09/25 01:06		

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	9056
Instrument ID:	IC-23	**Calibration Start Date:**	_____
Analytical Run:	030925	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
SSCV	IC-230309250106	10.0000.txt	03/09/25 01:06		
ICB	IC-230309250120	11.0000.txt	03/09/25 01:20		

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	9056
Instrument ID:	IC-23	**Calibration Start Date:**	_____
Analytical Run:	031725	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICB	IC-230309250120-2	11.0000.txt-2	03/09/25 01:20		

ANALYSIS LOG

SDG:	L1835192	**Analytical Method:**	9056
Instrument ID:	IC-23	**Calibration Start Date:**	03/08/25 23:32
Analytical Run:	031825	**Calibration End Date:**	03/09/25 00:53

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	IC-230318250827	14.0000.txt	03/18/25 08:27		
RL	IC-230318250840	15.0000.txt	03/18/25 08:40		
BLANK	R4188045-1	16.0000.txt	03/18/25 12:28	1	WG2468123
LCS	R4188045-2	17.0000.txt	03/18/25 12:41	1	WG2468123
MONTROSE-LAKE-I-SW	L1835192-01	18.0000.txt	03/18/25 12:54	5	WG2468123
DEEPWATER-I-SW	L1835192-02	19.0000.txt	03/18/25 13:08	10	WG2468123
TRUMAN-I-SW	L1835192-03	20.0000.txt	03/18/25 13:21	10	WG2468123
OS	L1835335-01	22.0000.txt	03/18/25 13:48		
L1835335-01	L1835335-01	22.0000.txt	03/18/25 13:48	1	WG2468123
DUP	R4188045-3	23.0000.txt	03/18/25 14:01	1	WG2468123
MS	R4188045-4	24.0000.txt	03/18/25 14:15	1	WG2468123
MSD	R4188045-5	25.0000.txt	03/18/25 14:28	1	WG2468123
OS	L1835335-02	26.0000.txt	03/18/25 14:42		
L1835335-02	L1835335-02	26.0000.txt	03/18/25 14:42	1	WG2468123
DUP	R4188045-6	27.0000.txt	03/18/25 14:55	1	WG2468123
MS	R4188045-7	28.0000.txt	03/18/25 15:09	1	WG2468123
L1835335-03	L1835335-03	29.0000.txt	03/18/25 15:22	1	WG2468123
L1835335-04	L1835335-04	30.0000.txt	03/18/25 15:35	1	WG2468123
L1835335-05	L1835335-05	31.0000.txt	03/18/25 15:49	1	WG2468123
L1835335-06	L1835335-06	32.0000.txt	03/18/25 16:02	1	WG2468123
CCV	IC-230318251616	33.0000.txt	03/18/25 16:16		
CCB	IC-230318251629	34.0000.txt	03/18/25 16:29		
RL	IC-230318252111	55.0000.txt	03/18/25 21:11		
RL	IC-230319250757	90.0000.txt	03/19/25 07:57		

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056	**Analytical Run:**	031825

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	0	.1739		1	.9515	95.20
File ID:		03.0000.TXT			04.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056	**Analytical Run:**	031825

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	5	4.6119	92.20	10	9.4823	94.80
File ID:		05.0000.TXT			06.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056	**Analytical Run:**	031825

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFATE	25	24.7862	99.10	50	50.0839	100
File ID:		07.0000.TXT			08.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056	**Analytical Run:**	031825

Analyte	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%
SULFATE	100	101.0843	101
File ID:		09.0000.TXT	

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Analytical Method:	9056	**Analytical Run:**	031825

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
SULFATE	5	1	0.99971			0.073	-0.01	10.312

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

17-IN

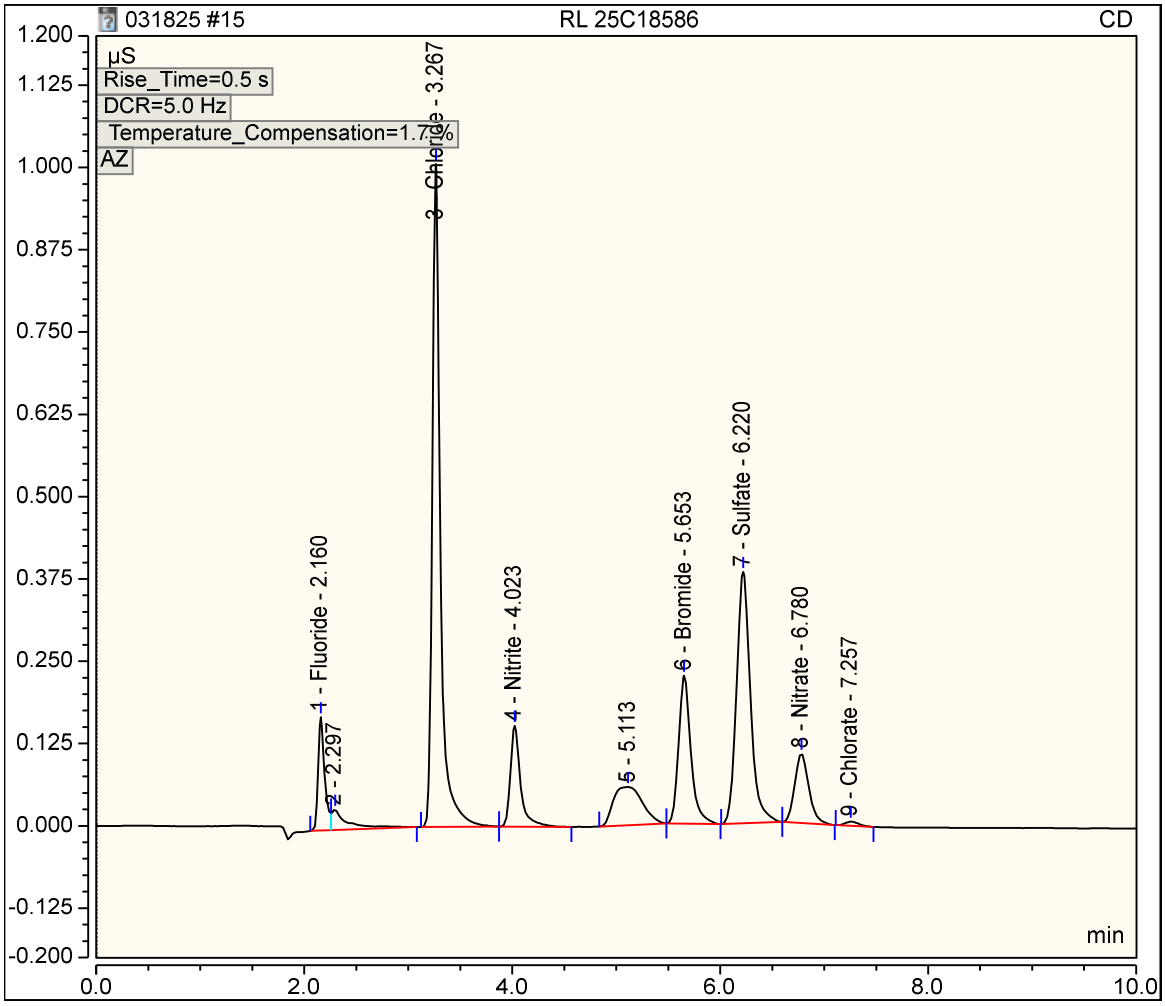
REPORTING LEVEL VERIFICATION
INORGANICS

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Lab File ID:	15.0000.txt	**Analysis date/time:**	03/18/25 08:40
Analytical Method:	9056	**Sample ID:**	RL

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
SULFATE	1	0.9461	94.60	50 - 150

Sample Name:	**RL 25C18586**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 08:40**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.012	0.172	0.0790
3	3.27	Chloride	BMB	0.091	1.007	0.9684
4	4.02	Nitrite	BMB	0.017	0.153	0.1022
6	5.65	Bromide	BMB	0.031	0.225	1.0550
7	6.22	Sulfate	BMB	0.059	0.382	0.9461
8	6.78	Nitrate	BMB	0.017	0.106	0.1178
9	7.26	Chlorate	BMB	0.001	0.006	0.0650
		TOTAL:		0.23	2.05	3.33



17-IN

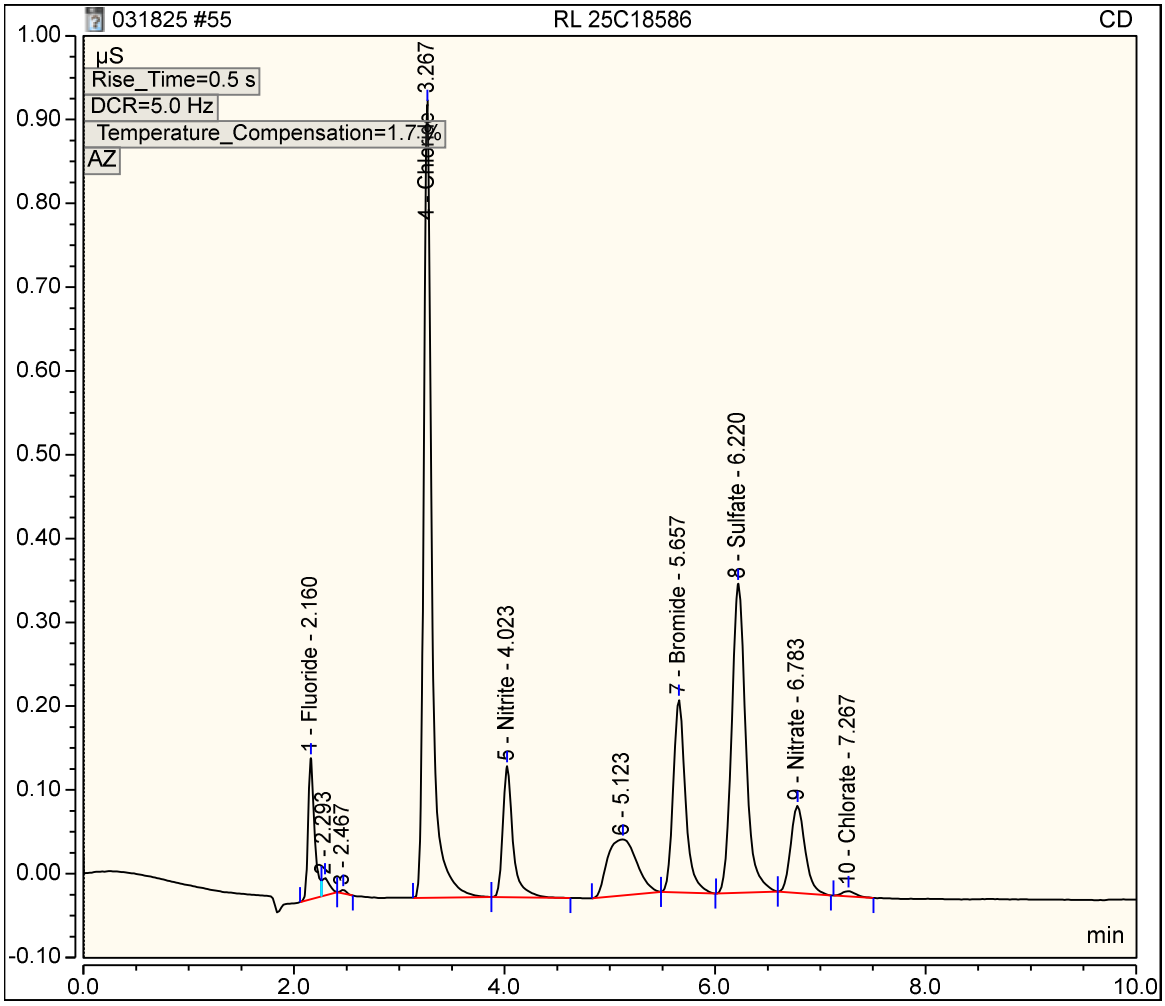
REPORTING LEVEL VERIFICATION
INORGANICS

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Lab File ID:	55.0000.txt	**Analysis date/time:**	03/18/25 21:11
Analytical Method:	9056	**Sample ID:**	RL

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
SULFATE	1	0.9207	92.10	50 - 150

Sample Name:	**RL 25C18586**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 21:11**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.012	0.168	0.0753
4	3.27	Chloride	BMB	0.086	0.946	0.9186
5	4.02	Nitrite	BMB	0.018	0.157	0.1045
7	5.66	Bromide	BMB	0.031	0.230	1.0699
8	6.22	Sulfate	BMB	0.057	0.369	0.9207
9	6.78	Nitrate	BMB	0.016	0.104	0.1169
10	7.27	Chlorate	BMB	0.001	0.006	0.0640
		TOTAL:		0.22	1.98	3.27



17-IN

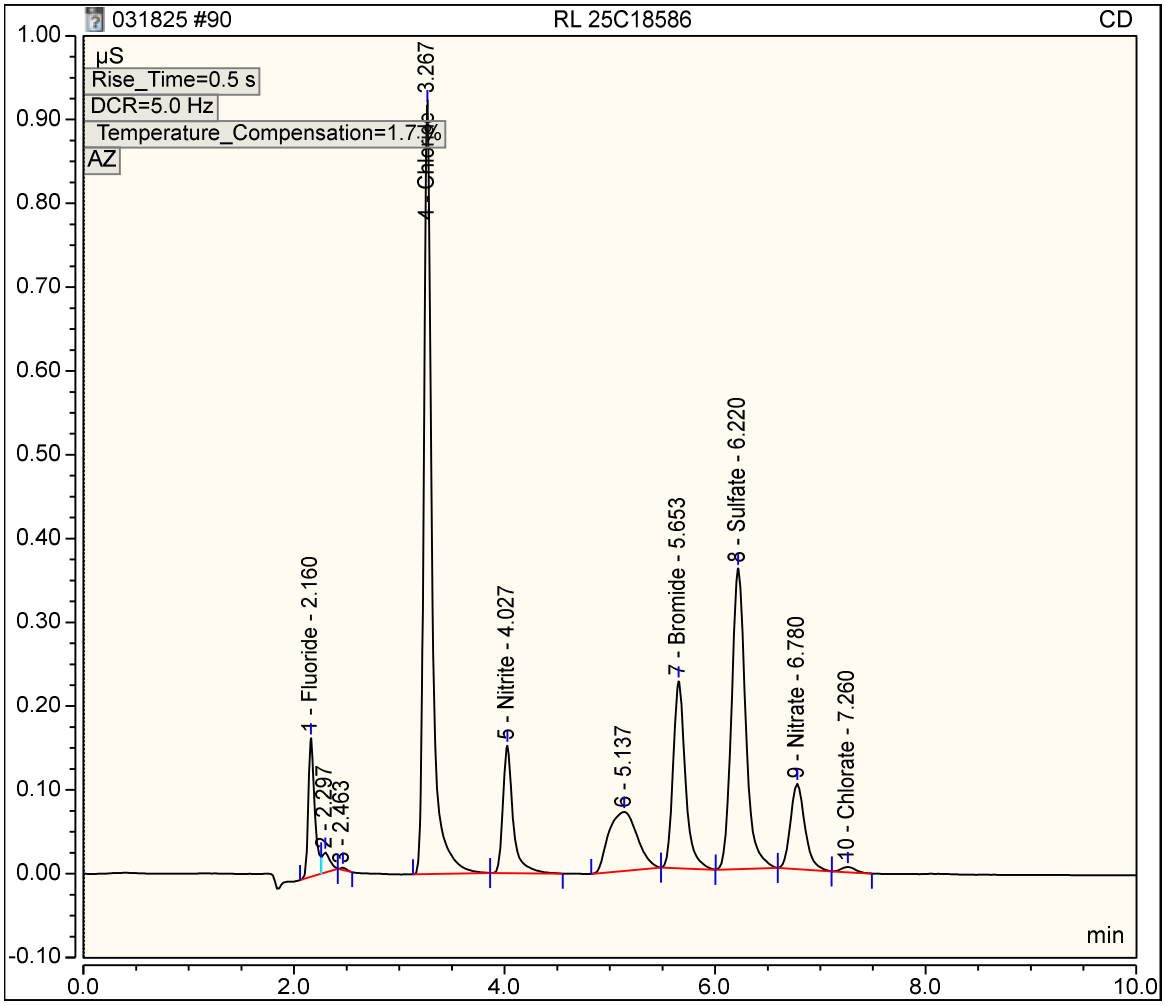
REPORTING LEVEL VERIFICATION
INORGANICS

SDG:	L1835192	**Calibration (begin) date/time:**	03/08/25 23:32
Instrument ID:	IC-23	**Calibration (end) date/time:**	03/09/25 00:53
Lab File ID:	90.0000.txt	**Analysis date/time:**	03/19/25 07:57
Analytical Method:	9056	**Sample ID:**	RL

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
SULFATE	1	0.8978	89.80	50 - 150

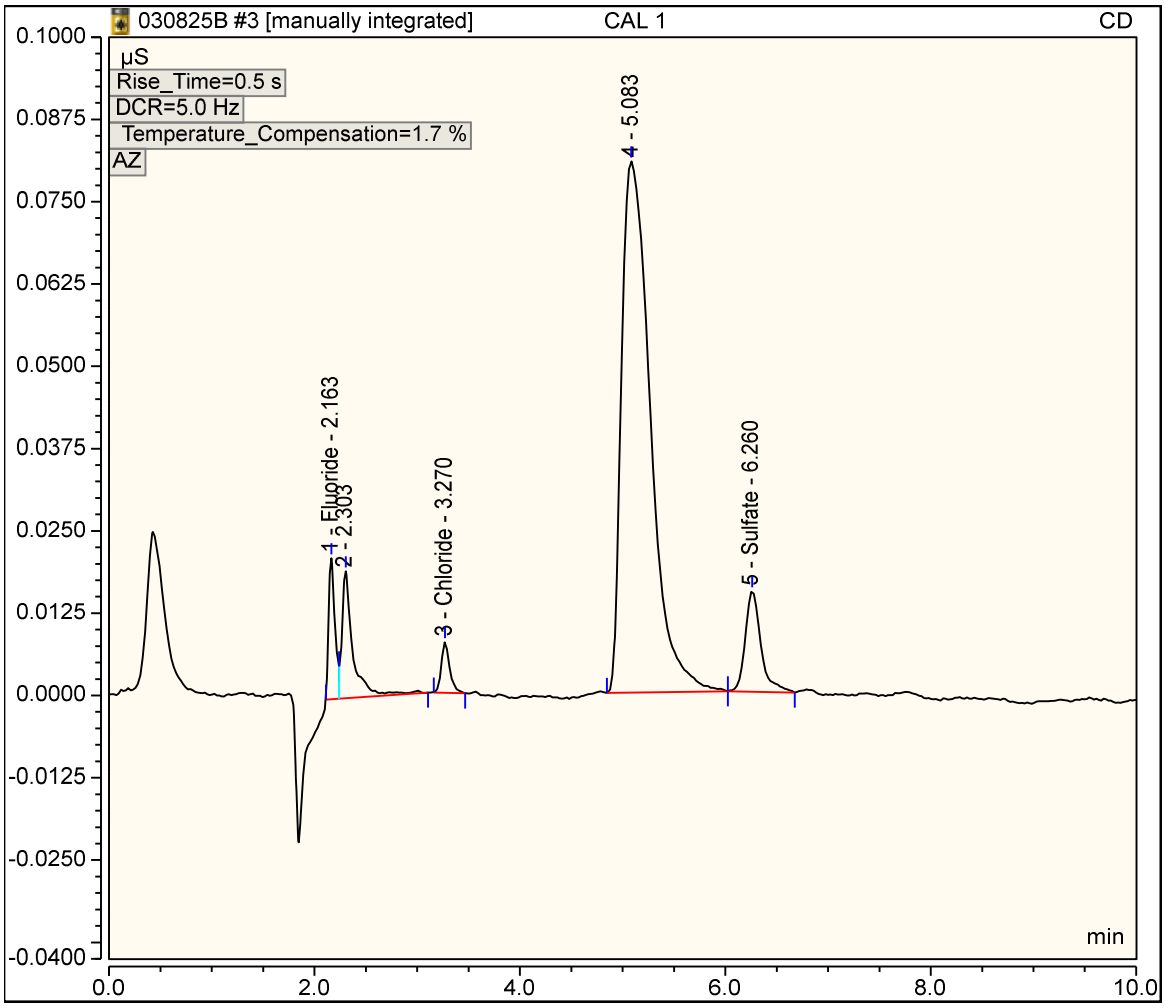
Sample Name:	**RL 25C18586**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/19/25 07:57**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.012	0.165	0.0739
4	3.27	Chloride	BMB	0.083	0.918	0.8906
5	4.03	Nitrite	BMB	0.017	0.152	0.1018
7	5.65	Bromide	BMB	0.030	0.223	1.0469
8	6.22	Sulfate	BMB	0.056	0.359	0.8978
9	6.78	Nitrate	BMB	0.016	0.102	0.1159
10	7.26	Chlorate	BMB	0.001	0.006	0.0643
		TOTAL:		0.21	1.93	3.19



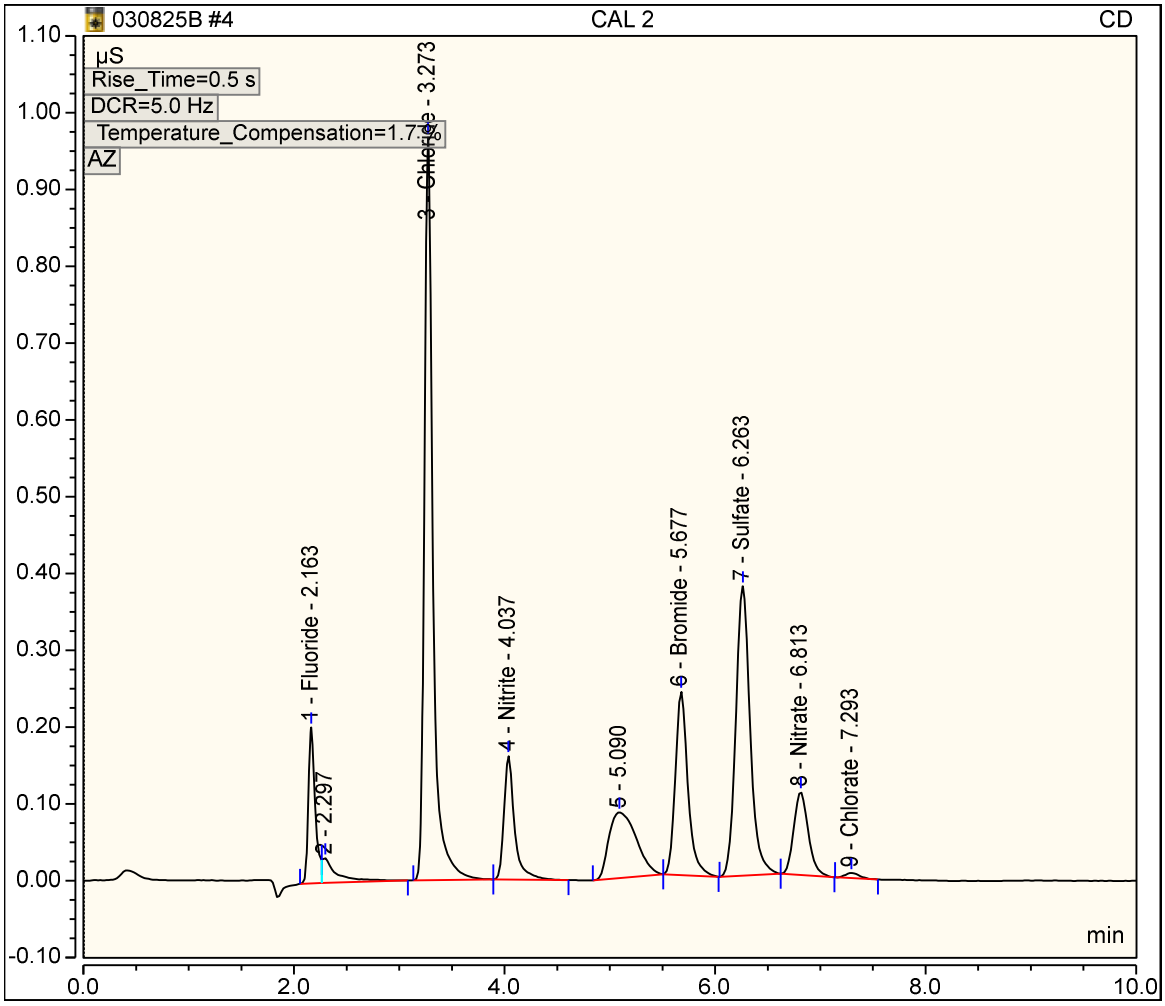
Sample Name:	**CAL 1**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	**25B27874 BA: MDM3917 03/09/25**
Inj. Date/Time:	**03/08/25 23:32**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM *	0.002	0.021	0.0127
3	3.27	Chloride	BMB	0.001	0.008	0.0967
5	6.26	Sulfate	BMB	0.003	0.015	0.1739
		TOTAL:		0.00	0.04	0.28



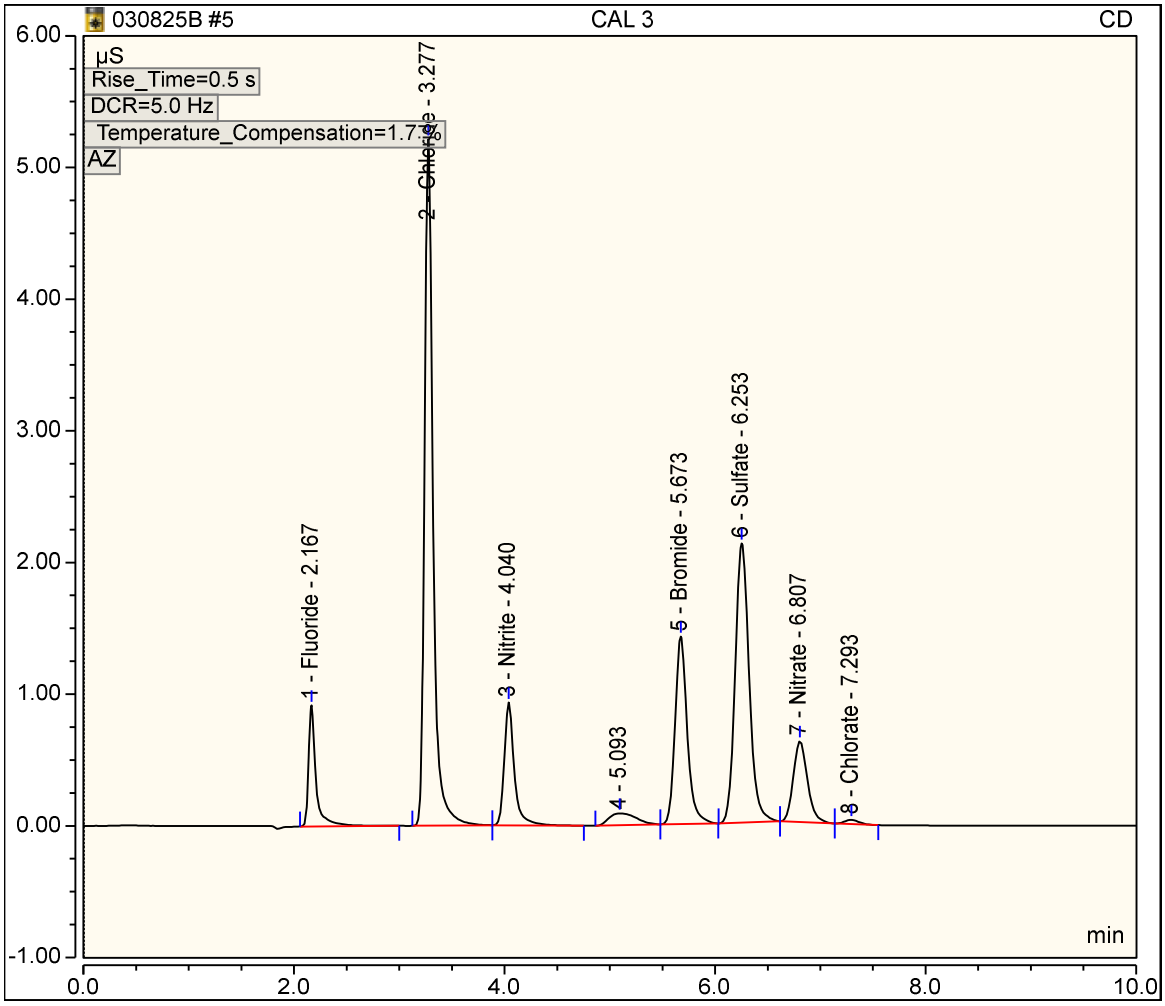
Sample Name:	**CAL 2**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/08/25 23:46**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.015	0.203	0.0969
3	3.27	Chloride	BMB	0.091	0.967	0.9678
4	4.04	Nitrite	BMB	0.019	0.161	0.1088
6	5.68	Bromide	BMB	0.033	0.239	1.1127
7	6.26	Sulfate	BMB	0.059	0.377	0.9515
8	6.81	Nitrate	BMB	0.017	0.108	0.1208
9	7.29	Chlorate	BMB	0.001	0.007	0.0683
		TOTAL:		0.24	2.06	3.43



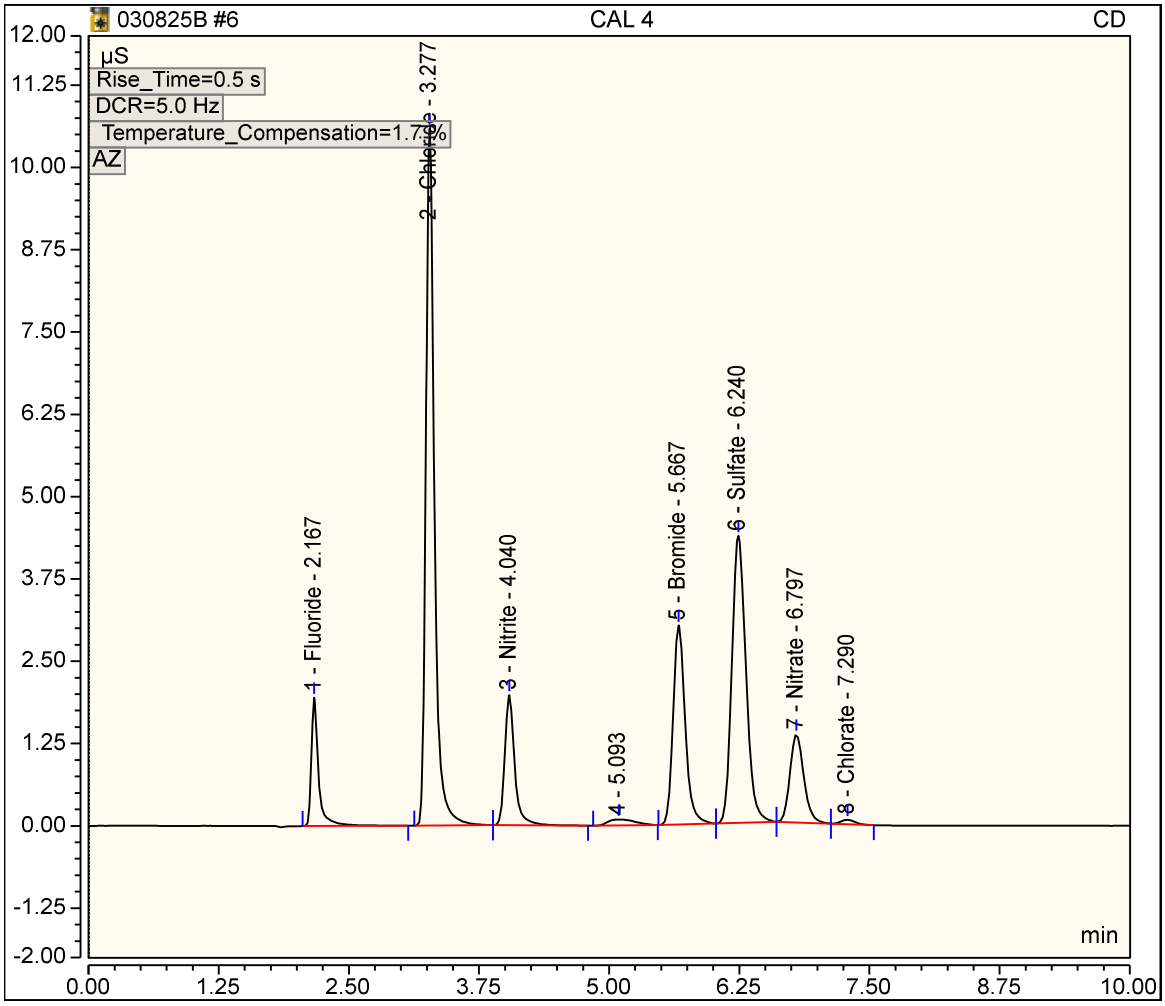
Sample Name:	**CAL 3**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/08/25 23:59**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.076	0.919	0.4662
2	3.28	Chloride	BMB	0.489	5.213	4.7954
3	4.04	Nitrite	BMB	0.103	0.932	0.4694
5	5.67	Bromide	BMB	0.191	1.425	4.6691
6	6.25	Sulfate	BMB	0.327	2.121	4.6119
7	6.81	Nitrate	BMB	0.096	0.616	0.4477
8	7.29	Chlorate	BMB	0.005	0.033	0.2212
		TOTAL:		1.29	11.26	15.68



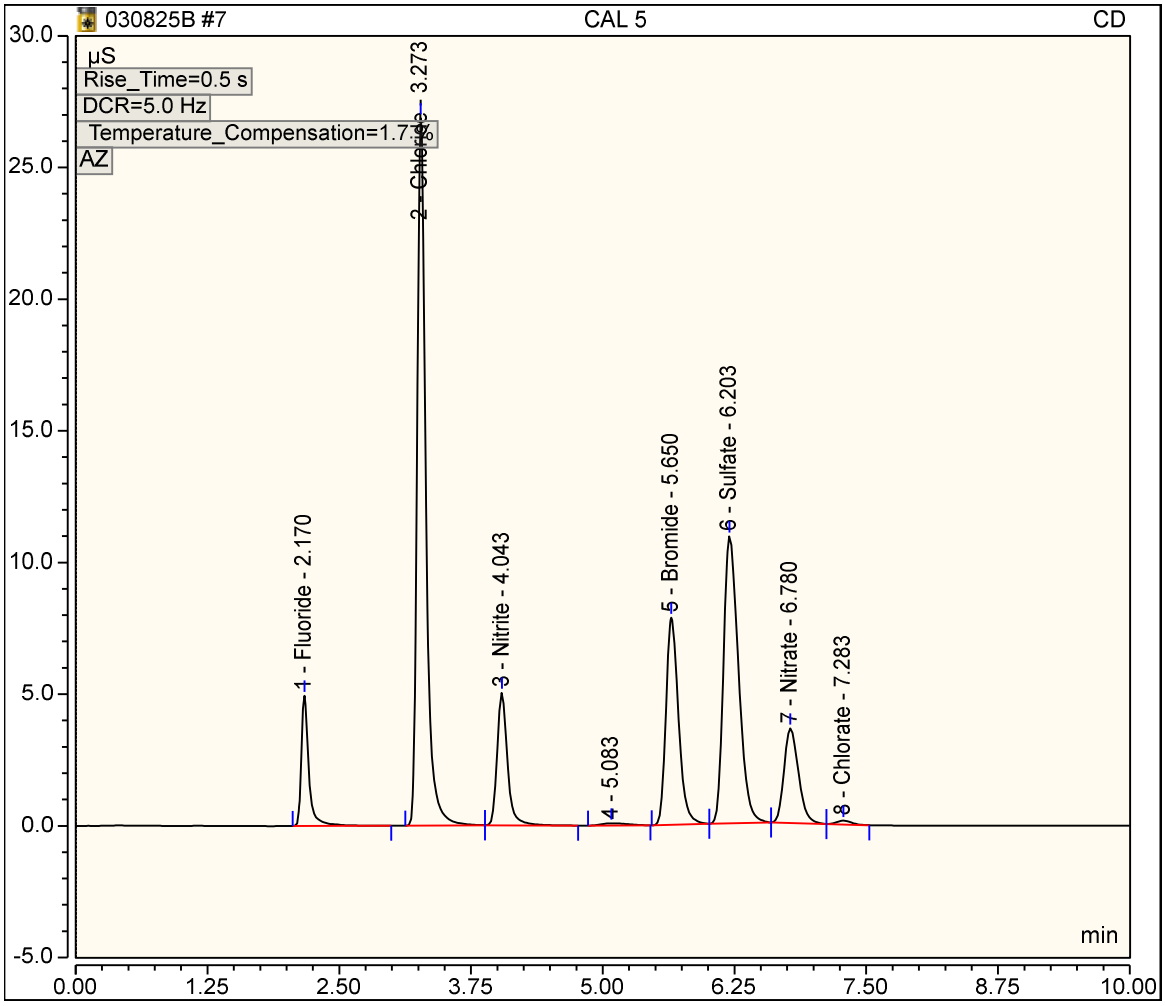
Sample Name:	**CAL 4**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/09/25 00:13**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.158	1.950	0.9682
2	3.28	Chloride	BMB	1.003	10.585	9.7363
3	4.04	Nitrite	BMB	0.218	1.978	0.9651
5	5.67	Bromide	BMB	0.407	3.023	9.5270
6	6.24	Sulfate	BMB	0.682	4.360	9.4823
7	6.80	Nitrate	BMB	0.207	1.335	0.9085
8	7.29	Chlorate	BMB	0.011	0.069	0.4284
		TOTAL:		2.69	23.30	32.02



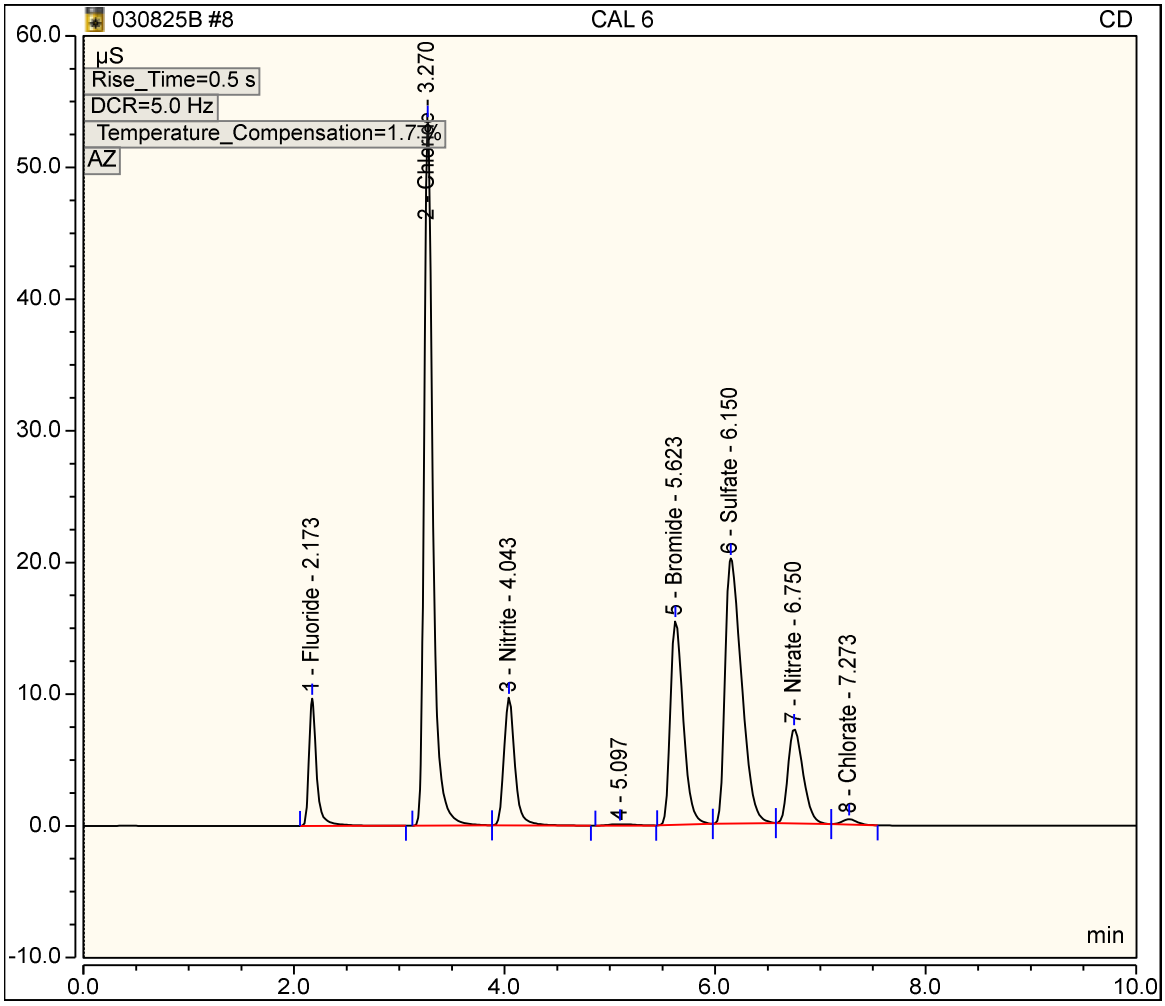
Sample Name:	**CAL 5**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/09/25 00:26**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.407	4.948	2.4812
2	3.27	Chloride	BMB	2.583	26.868	24.9242
3	4.04	Nitrite	BMB	0.574	5.036	2.4971
5	5.65	Bromide	BMB	1.084	7.869	24.7532
6	6.20	Sulfate	BMB	1.800	10.905	24.7862
7	6.78	Nitrate	BMB	0.572	3.588	2.4227
8	7.28	Chlorate	BMB	0.022	0.143	0.8608
		TOTAL:		7.04	59.36	82.73



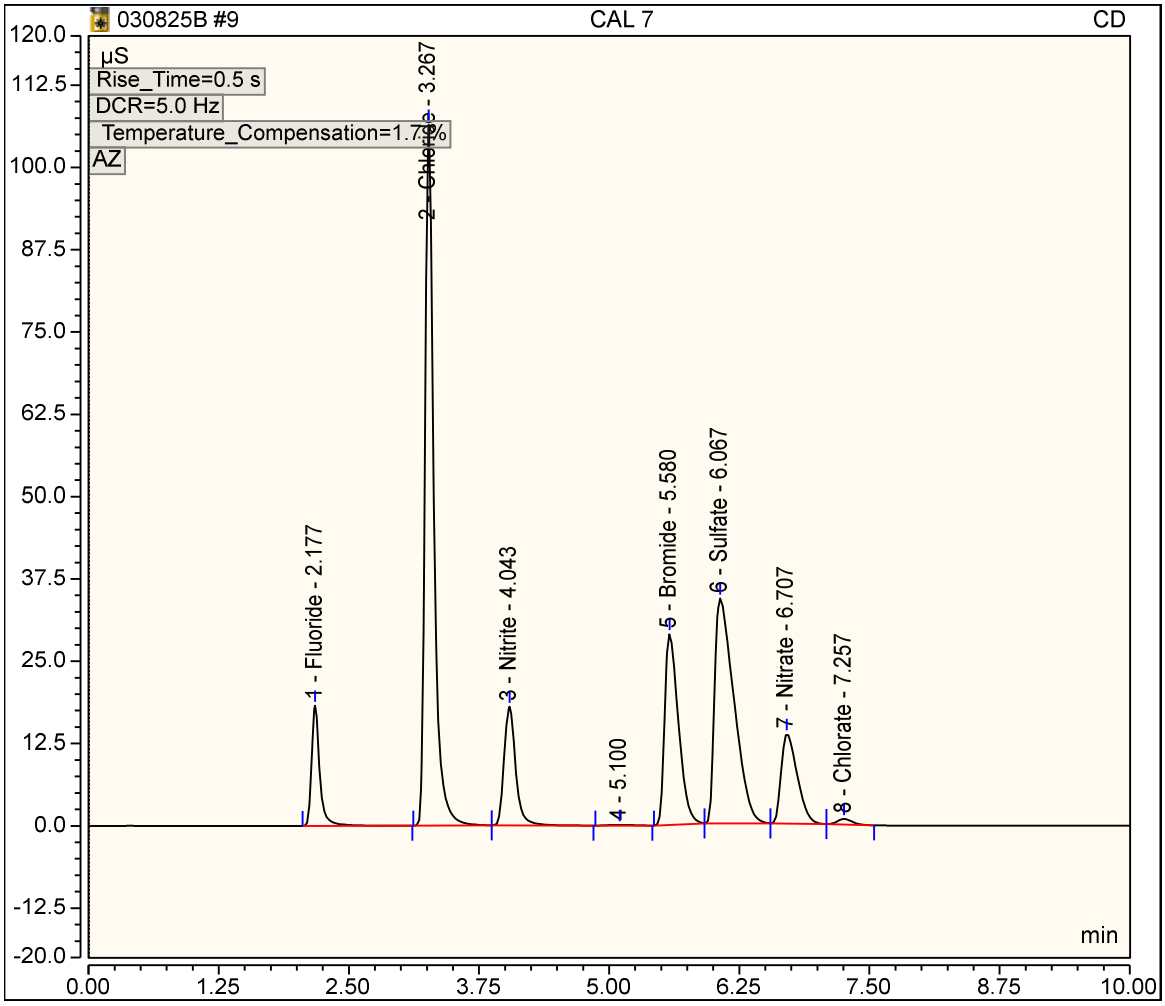
Sample Name:	**CAL 6**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/09/25 00:39**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.824	9.674	5.0232
2	3.27	Chloride	BMB	5.191	53.533	50.0031
3	4.04	Nitrite	BMB	1.162	9.709	5.0308
5	5.62	Bromide	BMB	2.212	15.500	50.1316
6	6.15	Sulfate	BMB	3.647	20.131	50.0839
7	6.75	Nitrate	BMB	1.191	7.171	4.9935
8	7.27	Chlorate	BMB	0.065	0.404	2.4358
		TOTAL:		14.29	116.12	167.70



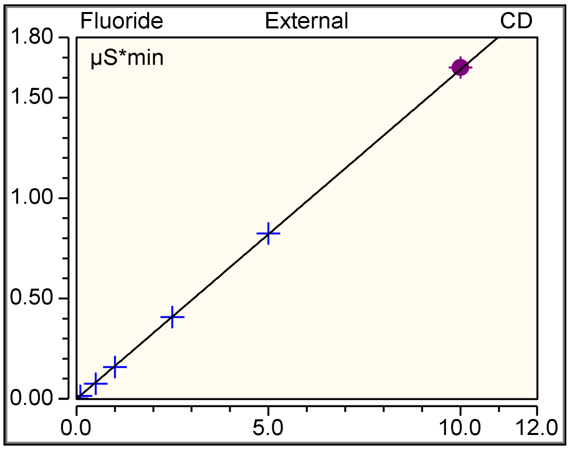
Sample Name:	**CAL 7**	*Inj. Vol.:*	**10.0**
Sample Type:	**Calibration Standard**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/09/25 00:53**	*Run Time:*	**10.00**

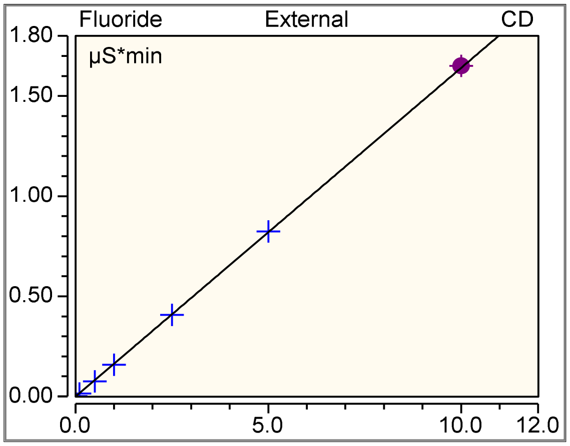
No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.18	Fluoride	BMB	1.651	18.248	10.0643
2	3.27	Chloride	BMB	10.450	106.506	100.5731
3	4.04	Nitrite	BMB	2.324	18.024	10.0289
5	5.58	Bromide	BMB	4.465	28.993	100.8065
6	6.07	Sulfate	BMB	7.371	34.168	101.0843
7	6.71	Nitrate	BMB	2.446	13.608	10.2070
8	7.26	Chlorate	BMB	0.142	0.853	5.2855
		TOTAL:		28.85	220.40	338.05

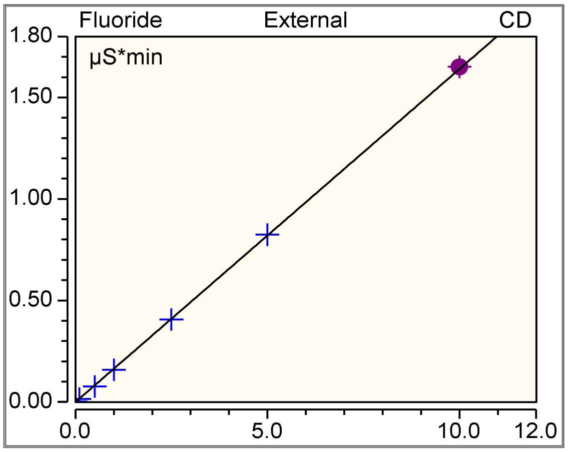


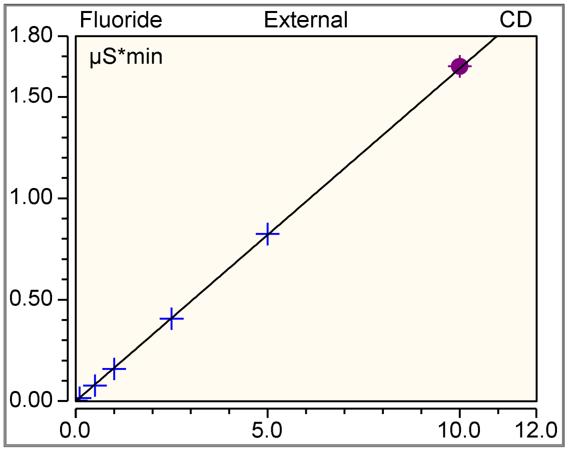
Calibration Batch Report

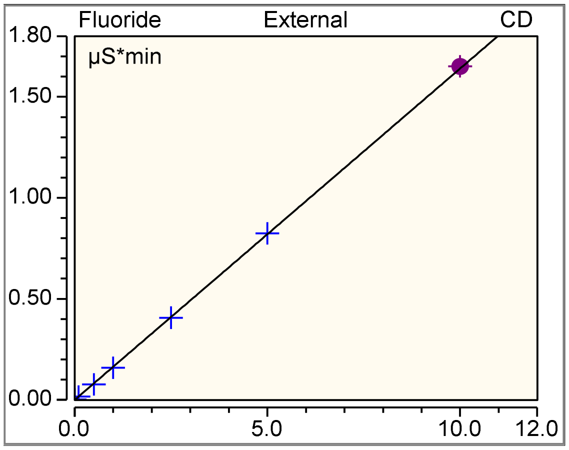
Sequence:	**030825B**	Inj. Vol.:	**10.0**
Program:	**Anions - IC23**	Operator:	**WETLABIC23**
Inj. Date/Time:	**03/09/25 00:53**	Run Time:	**10.00**

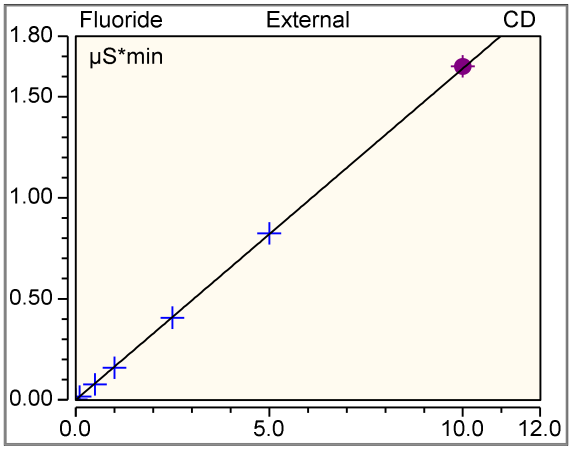




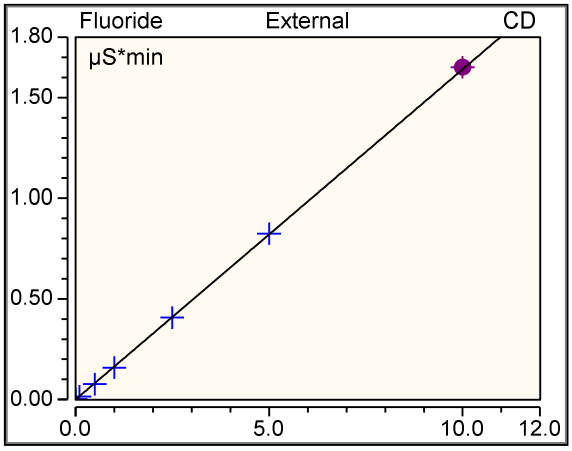








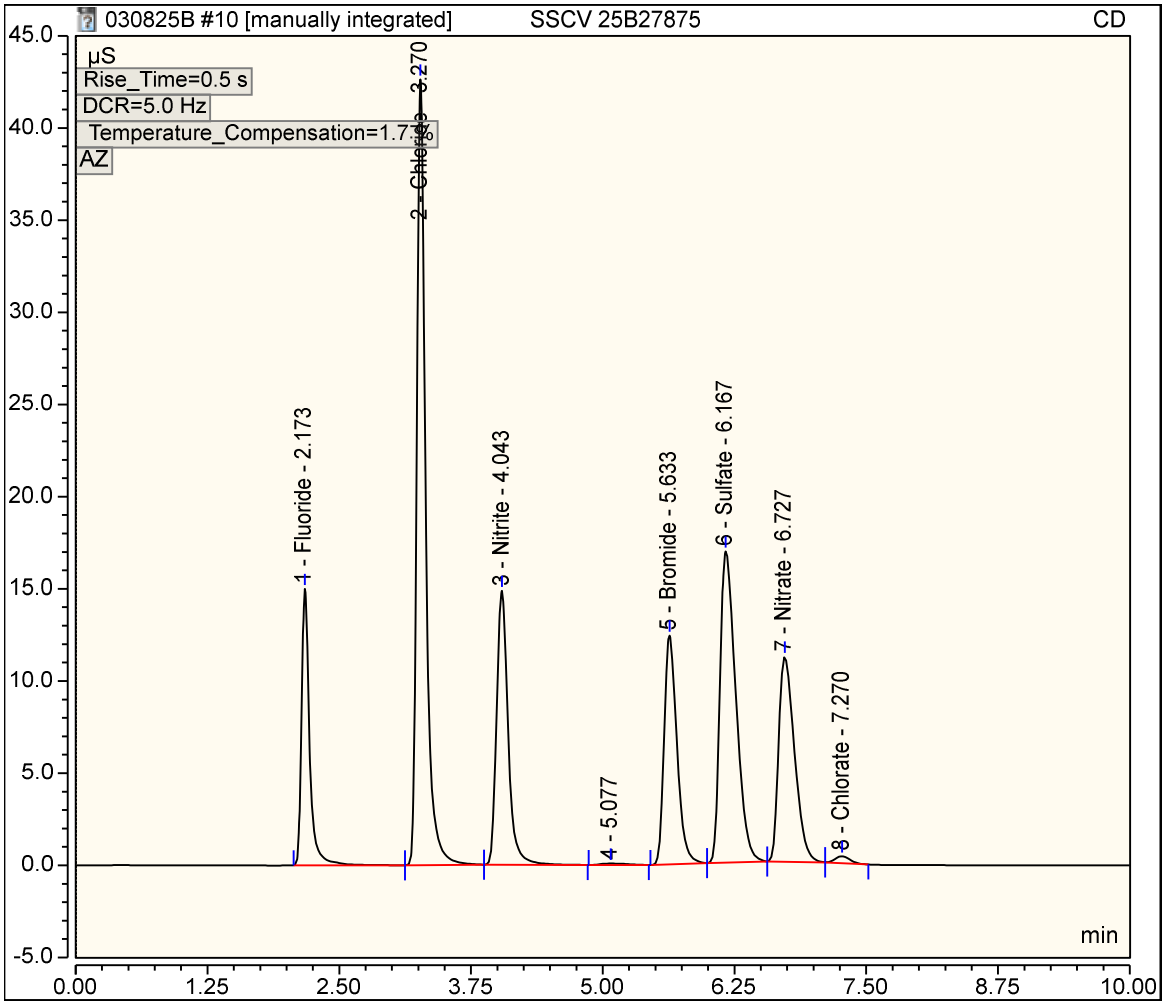
Sequence:	**030825B**	*Inj. Vol.:*	**10.0**
Program:	**Anions - IC23**	*Operator:*	**n.a.**
Inj. Date/Time:	**03/09/25 00:53**	*Run Time:*	**10.00**



No.	Ret.Time min	Peak Name	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Corr.Coeff. %
1	2.18	Fluoride	, WithOffset,	7	-0.001	0.164	0.000	99.984
2	3.27	Chloride	, WithOffset,	7	-0.009	0.104	0.000	99.992
3	4.04	Nitrite	, WithOffset,	6	-0.007	0.232	0.000	99.987
5	5.58	Bromide	, WithOffset,	6	-0.016	0.044	0.000	99.980
6	6.07	Sulfate	, WithOffset,	7	-0.010	0.073	0.000	99.971
7	6.71	Nitrate	, WithOffset,	6	-0.012	0.241	0.000	99.925
8	7.26	Chlorate	, WithOffset,	6	-0.001	0.027	0.000	99.642
AVERAGE:					-0.0079	0.1265	0.0000	99.9257

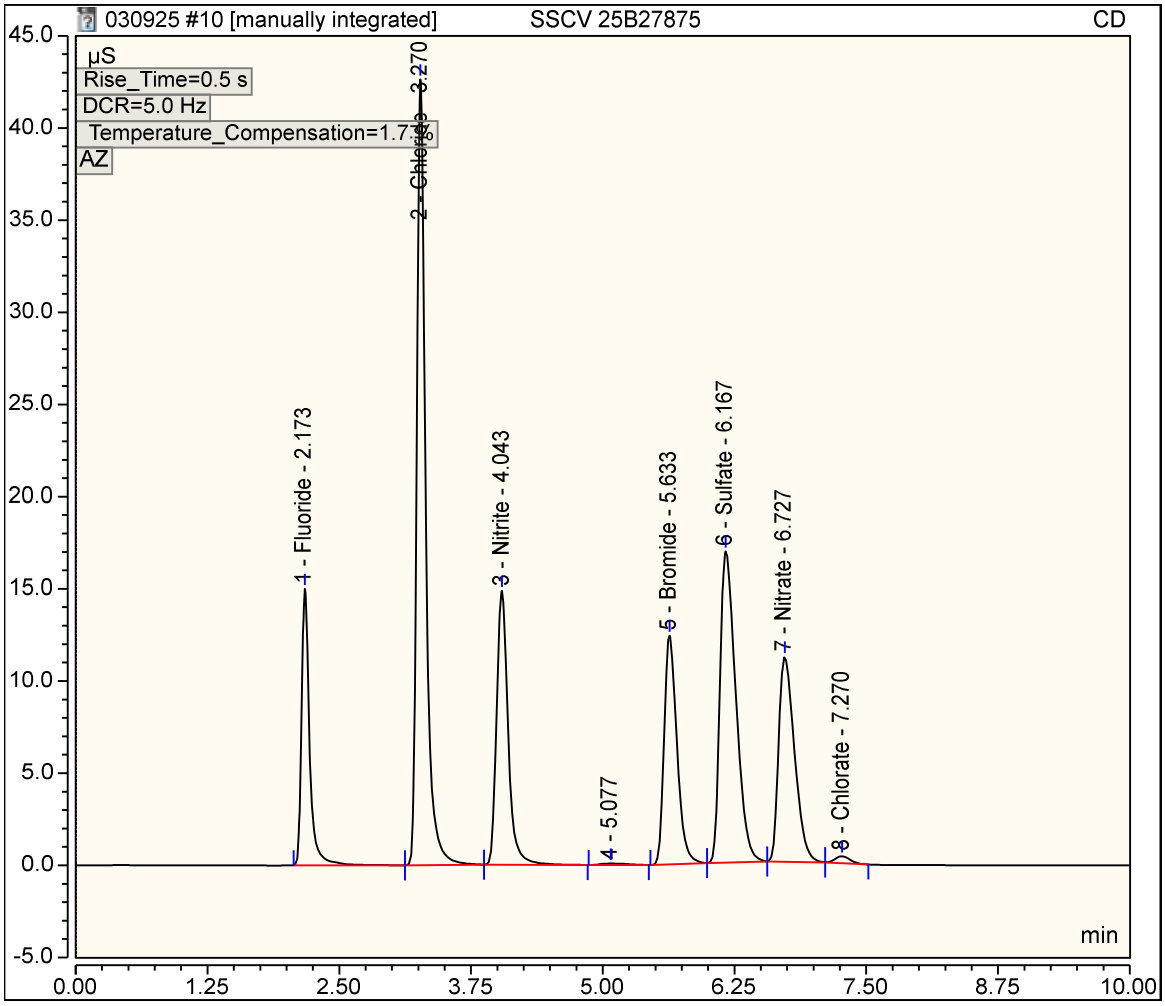
Sample Name:	**SSCV 25B27875**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	**BA: MDM3917 03/09/25**
Inj. Date/Time:	**03/09/25 01:06**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMb*	1.327	15.007	8.0915
2	3.27	Chloride	bMB*	4.133	42.621	39.8348
3	4.04	Nitrite	BMB	1.876	14.854	8.1004
5	5.63	Bromide	BMB	1.741	12.417	39.5295
6	6.17	Sulfate	BMB	2.939	16.878	40.3796
7	6.73	Nitrate	BMB	1.941	11.128	8.1098
8	7.27	Chlorate	BMB	0.060	0.378	2.2565
		TOTAL:		14.02	113.28	146.30



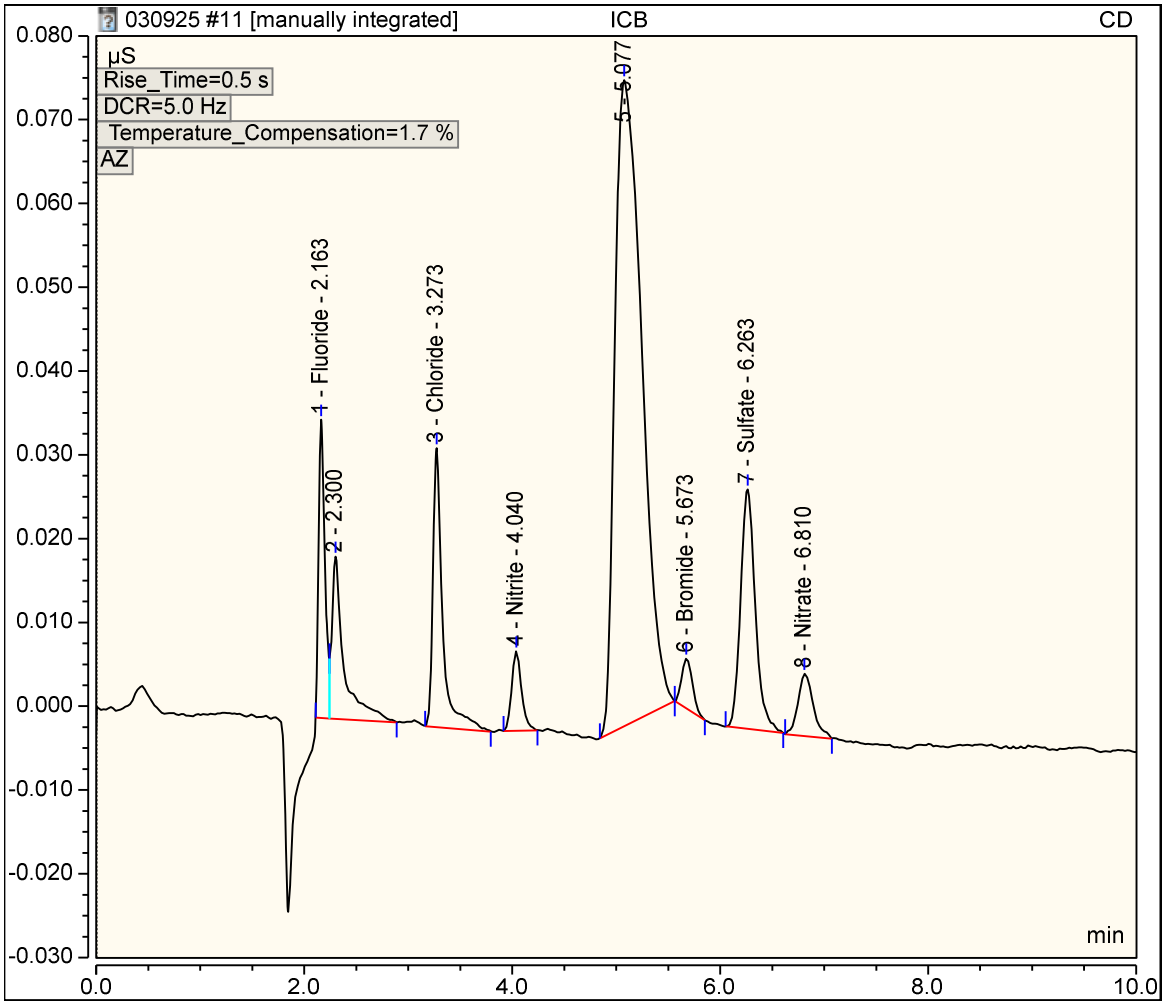
Sample Name:	**SSCV 25B27875**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	**BA: MDM3917 03/09/25**
Inj. Date/Time:	**03/09/25 01:06**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMb*	1.327	15.007	8.0915
2	3.27	Chloride	bMB*	4.133	42.621	39.8348
3	4.04	Nitrite	BMB	1.876	14.854	8.1004
5	5.63	Bromide	BMB	1.741	12.417	39.5295
6	6.17	Sulfate	BMB	2.939	16.878	40.3796
7	6.73	Nitrate	BMB	1.941	11.128	8.1098
8	7.27	Chlorate	BMB	0.060	0.378	2.2565
		TOTAL:		14.02	113.28	146.30



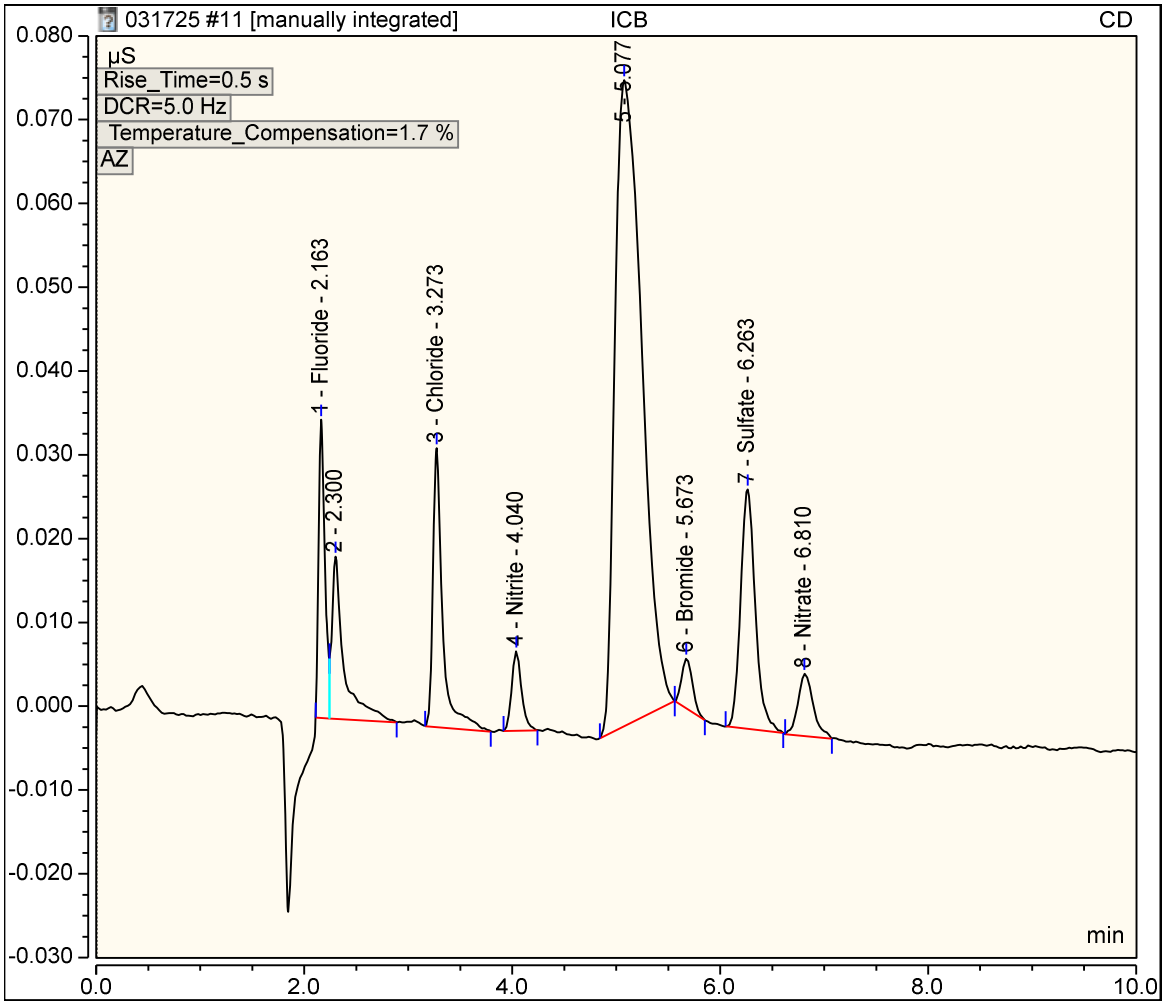
Sample Name:	**ICB**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	**BA: MDM3917 03/09/25**
Inj. Date/Time:	**03/09/25 01:20**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM *	0.003	0.036	0.0188
3	3.27	Chloride	BMB	0.004	0.033	0.1243
4	4.04	Nitrite	BMB	0.001	0.009	0.0328
6	5.67	Bromide	BMB	0.001	0.006	0.3836
7	6.26	Sulfate	BMB	0.005	0.029	0.2010
8	6.81	Nitrate	BMB*	0.001	0.007	0.0542
		TOTAL:		0.01	0.12	0.81



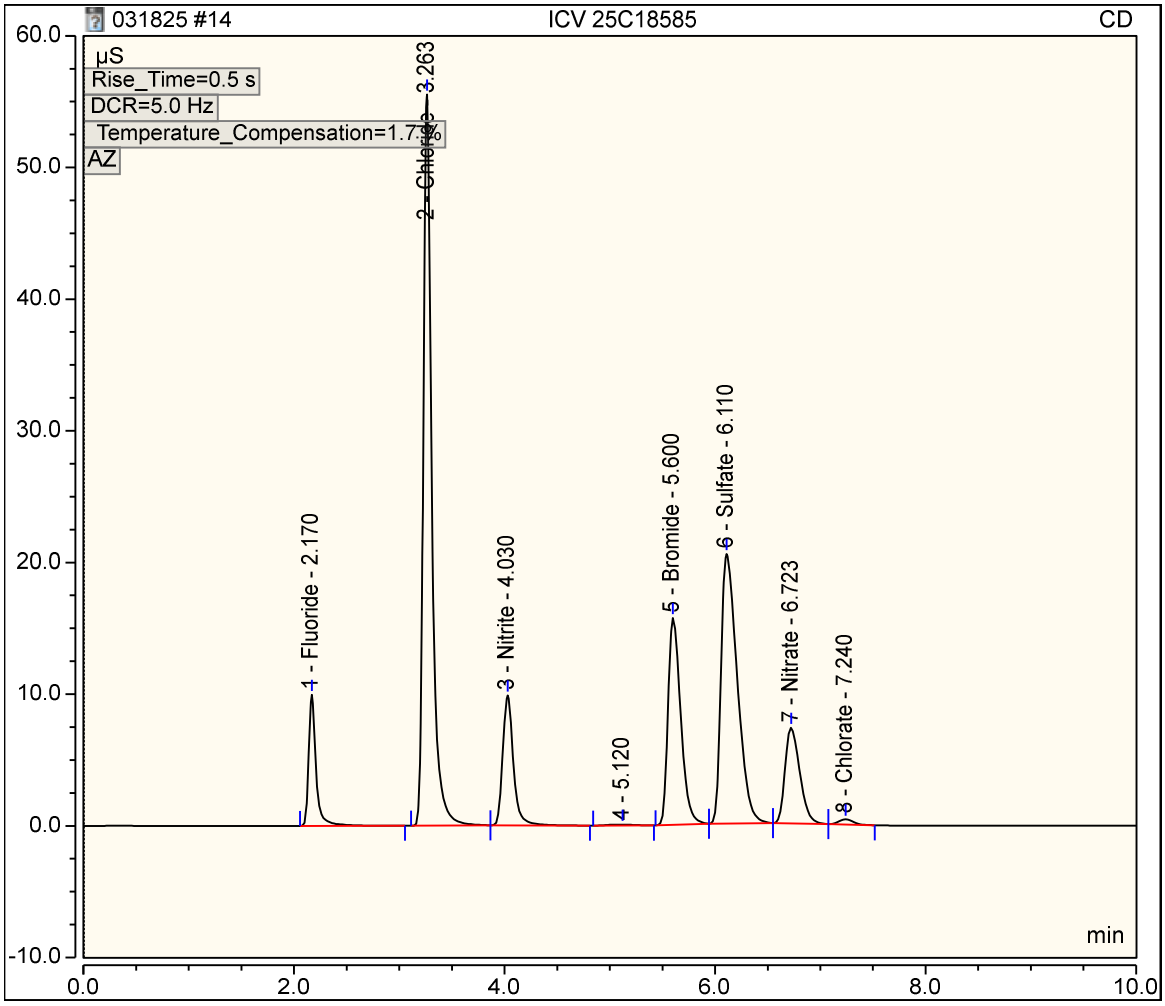
Sample Name:	**ICB**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	**BA: MDM3917 03/09/25**
Inj. Date/Time:	**03/09/25 01:20**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM *	0.003	0.036	0.0188
3	3.27	Chloride	BMB	0.004	0.033	0.1243
4	4.04	Nitrite	BMB	0.001	0.009	0.0328
6	5.67	Bromide	BMB	0.001	0.006	0.3836
7	6.26	Sulfate	BMB	0.005	0.029	0.2010
8	6.81	Nitrate	BMB*	0.001	0.007	0.0542
		TOTAL:		0.01	0.12	0.81



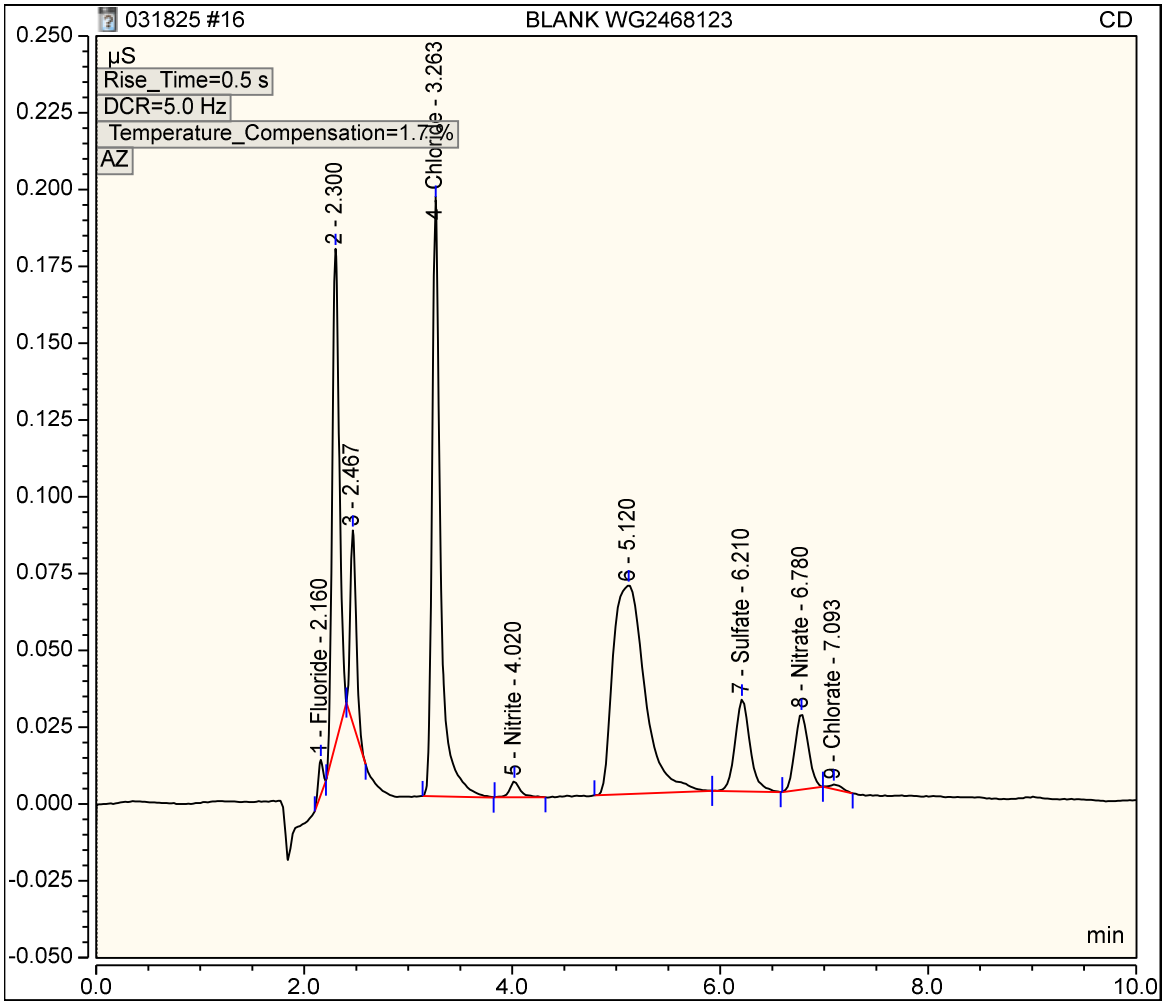
Sample Name:	**ICV 25C18585**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 08:27**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.812	9.962	4.9505
2	3.26	Chloride	BMB	5.192	55.540	50.0109
3	4.03	Nitrite	BMB	1.155	9.871	4.9978
5	5.60	Bromide	BMB	2.198	15.713	49.8202
6	6.11	Sulfate	BMB	3.647	20.476	50.0814
7	6.72	Nitrate	BMB	1.183	7.273	4.9628
8	7.24	Chlorate	BMB	0.062	0.394	2.3159
		TOTAL:		14.25	119.23	167.14



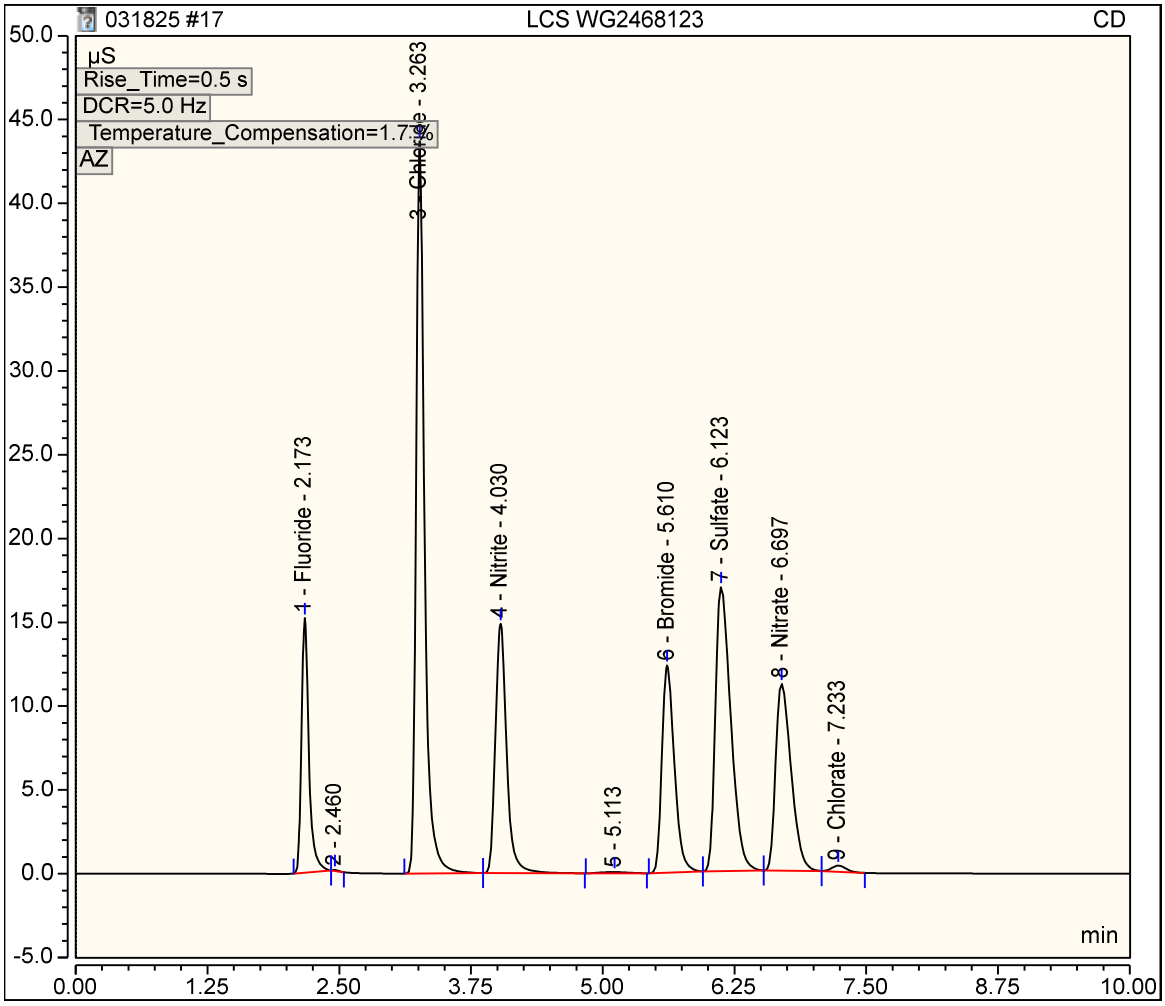
Sample Name:	**BLANK WG2468123**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 12:28**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BMB	0.001	0.011	0.0071
4	3.26	Chloride	BMB	0.019	0.194	0.2704
5	4.02	Nitrite	BMB	0.001	0.005	0.0310
7	6.21	Sulfate	BMB	0.005	0.030	0.2060
8	6.78	Nitrate	BMB	0.004	0.025	0.0643
9	7.09	Chlorate	BMB	0.000	0.002	0.0380
		TOTAL:		0.03	0.27	0.62



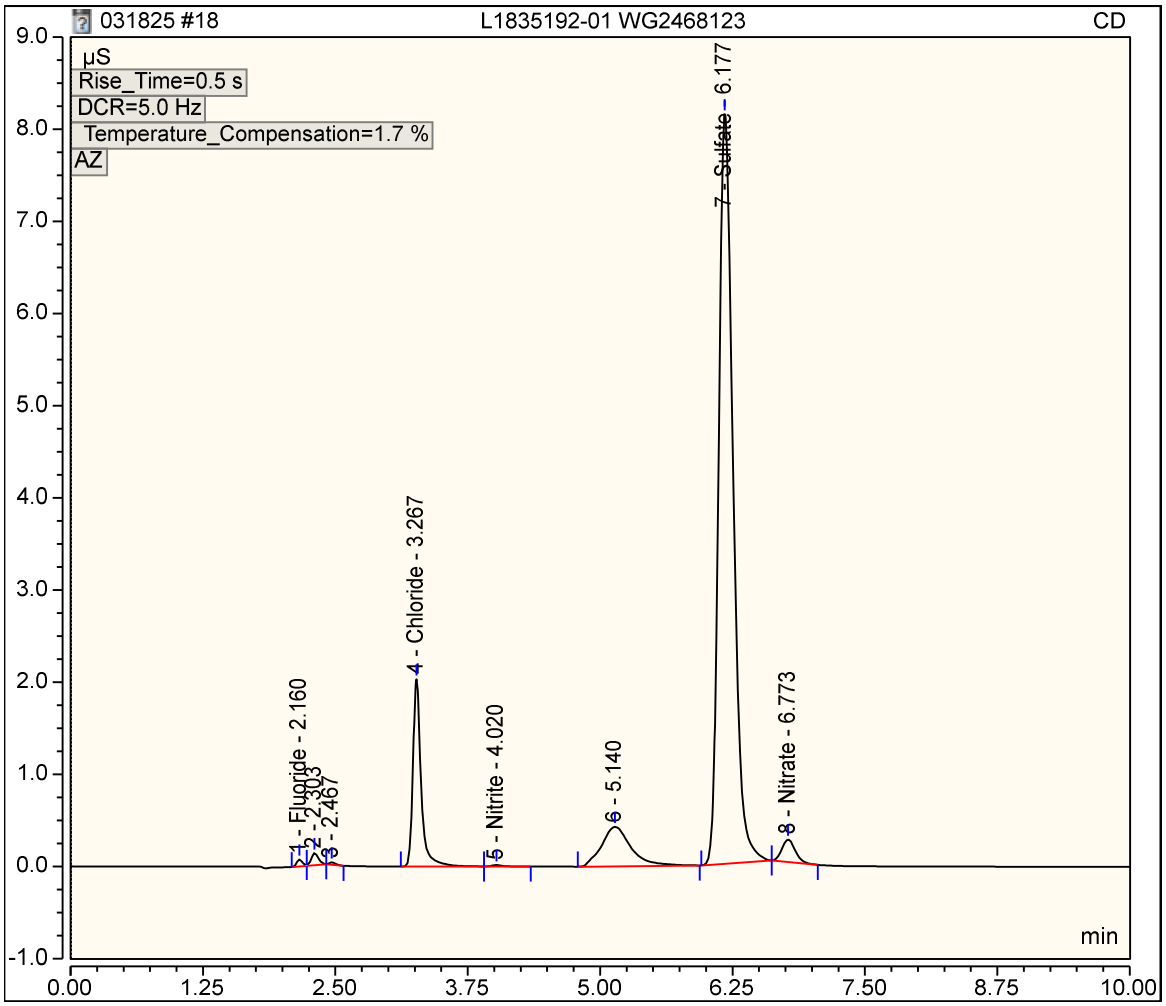
Sample Name:	**LCS WG2468123**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 12:41**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	1.233	15.196	7.5176
3	3.26	Chloride	BMB	4.059	43.689	39.1201
4	4.03	Nitrite	BMB	1.836	14.873	7.9295
6	5.61	Bromide	BMB	1.691	12.364	38.3993
7	6.12	Sulfate	BMB	2.878	16.962	39.5433
8	6.70	Nitrate	BMB	1.903	11.160	7.9544
9	7.23	Chlorate	BMB	0.057	0.366	2.1403
		TOTAL:		13.66	114.61	142.60



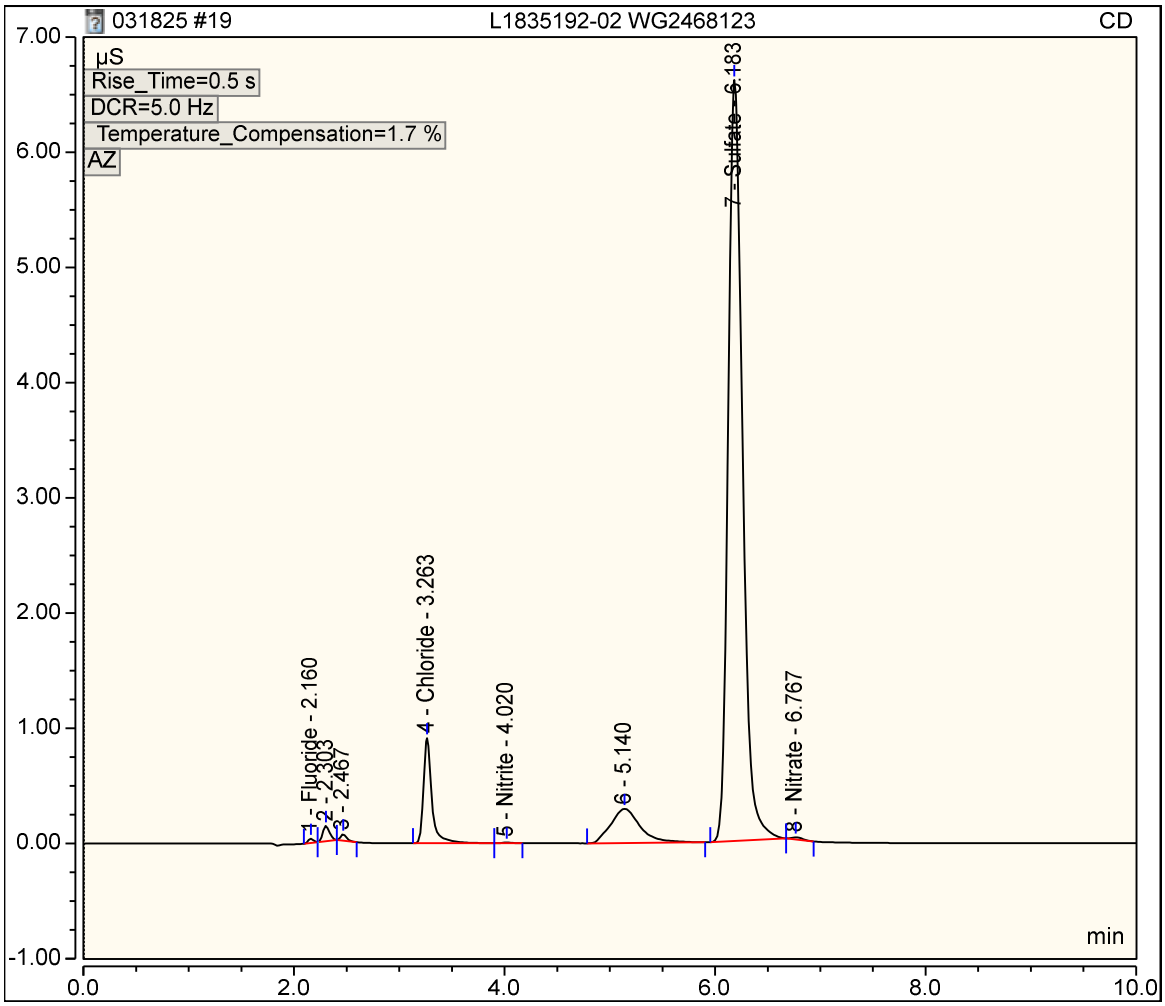
Sample Name:	**L1835192-01 WG2468123**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**5.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 12:54**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.005	0.074	0.1603
4	3.27	Chloride	BMB	0.182	2.031	9.1989
5	4.02	Nitrite	BMB	0.002	0.016	0.1791
7	6.18	Sulfate	BMB	1.278	8.132	88.2229
8	6.77	Nitrate	BMB	0.036	0.245	0.9868
		TOTAL:		1.50	10.50	98.75



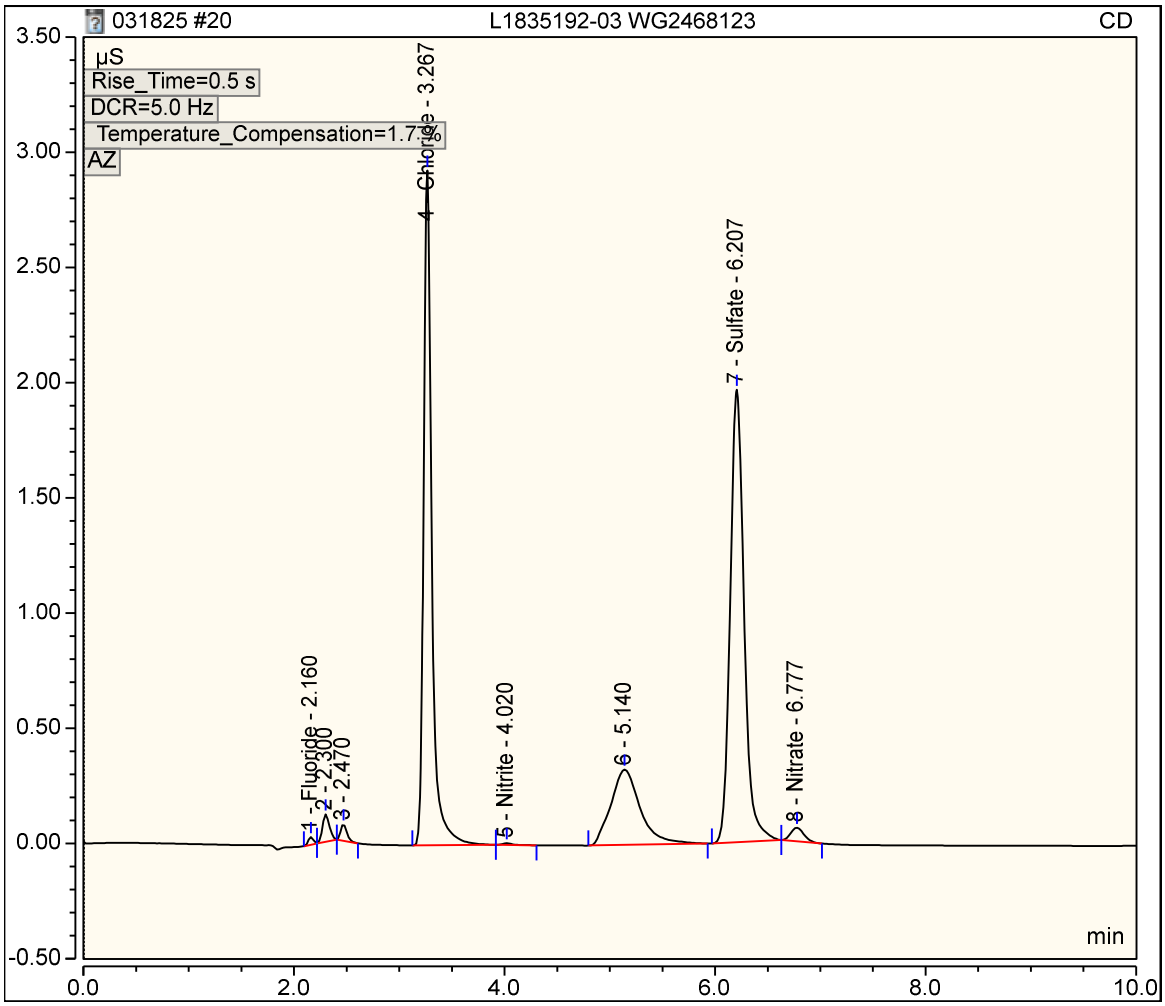
Sample Name:	**L1835192-02 WG2468123**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 13:08**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.002	0.039	0.1735
4	3.26	Chloride	BMB	0.083	0.912	8.8968
5	4.02	Nitrite	BMB	0.001	0.006	0.3112
7	6.18	Sulfate	BMB	1.035	6.605	143.0381
8	6.77	Nitrate	BMB	0.002	0.018	0.5861
		TOTAL:		1.12	7.58	153.01



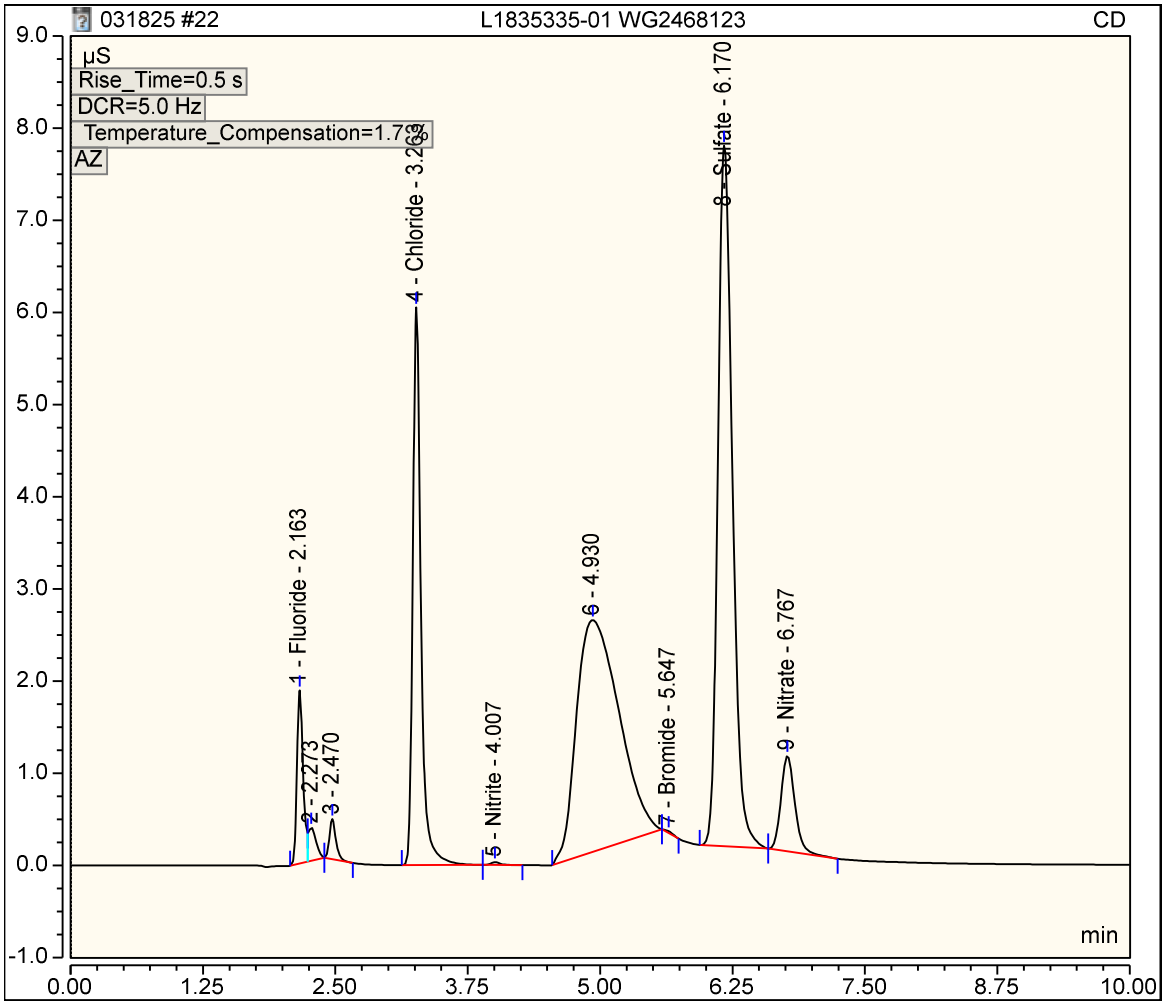
Sample Name:	**L1835192-03 WG2468123**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**10.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 13:21**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.002	0.034	0.1555
4	3.27	Chloride	BMB	0.262	2.928	26.1273
5	4.02	Nitrite	BMB	0.001	0.008	0.3167
7	6.21	Sulfate	BMB	0.298	1.964	42.2372
8	6.78	Nitrate	BMB	0.009	0.059	0.8441
TOTAL:				0.57	4.99	69.68



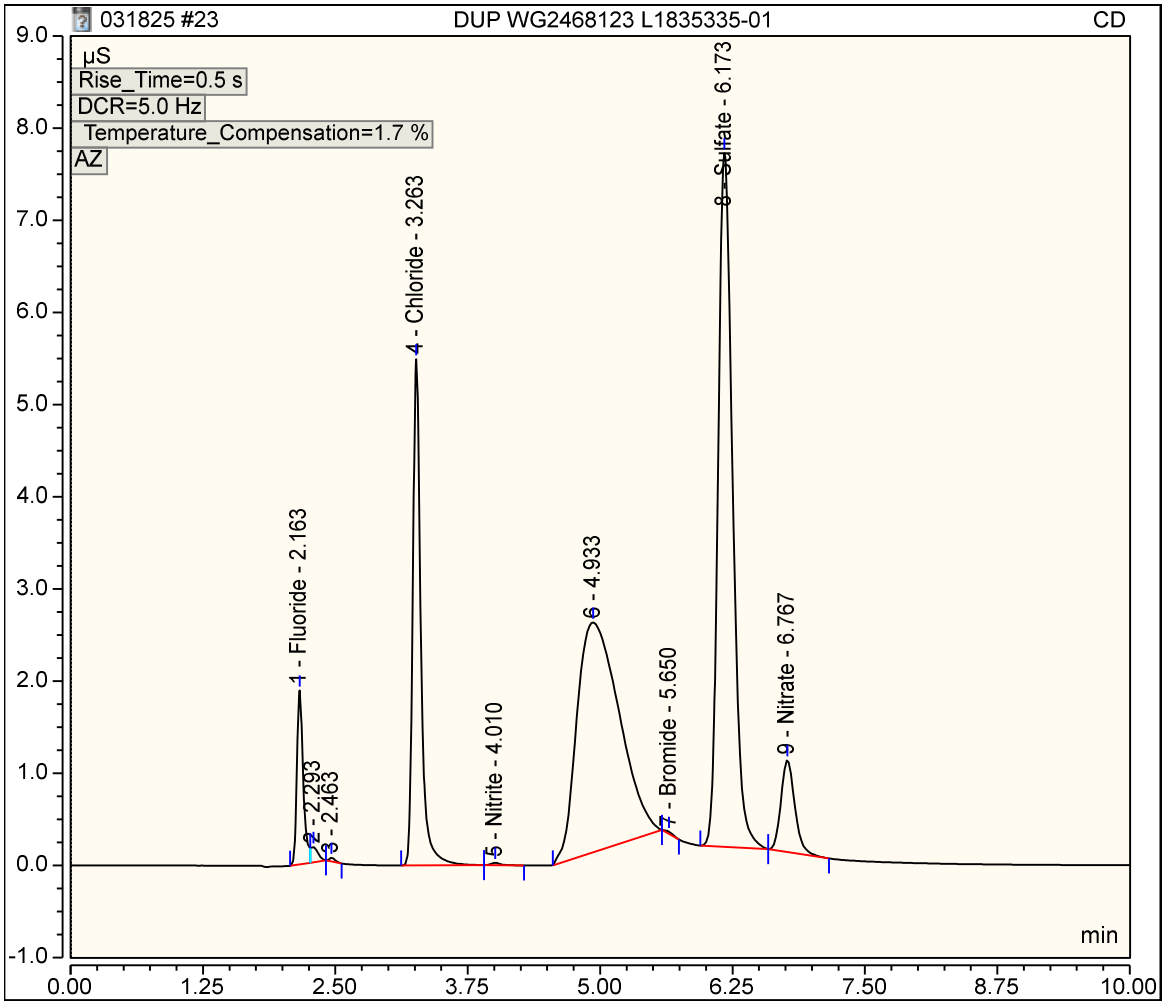
Sample Name:	**L1835335-01 WG2468123**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 13:48**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.127	1.879	0.7748
4	3.26	Chloride	BMB	0.543	6.050	5.3078
5	4.01	Nitrite	BMB	0.003	0.031	0.0414
7	5.65	Bromide	BMB	0.002	0.022	0.4088
8	6.17	Sulfate	BMB	1.210	7.599	16.7109
9	6.77	Nitrate	BMB	0.158	1.038	0.7052
		TOTAL:		2.04	16.62	23.95



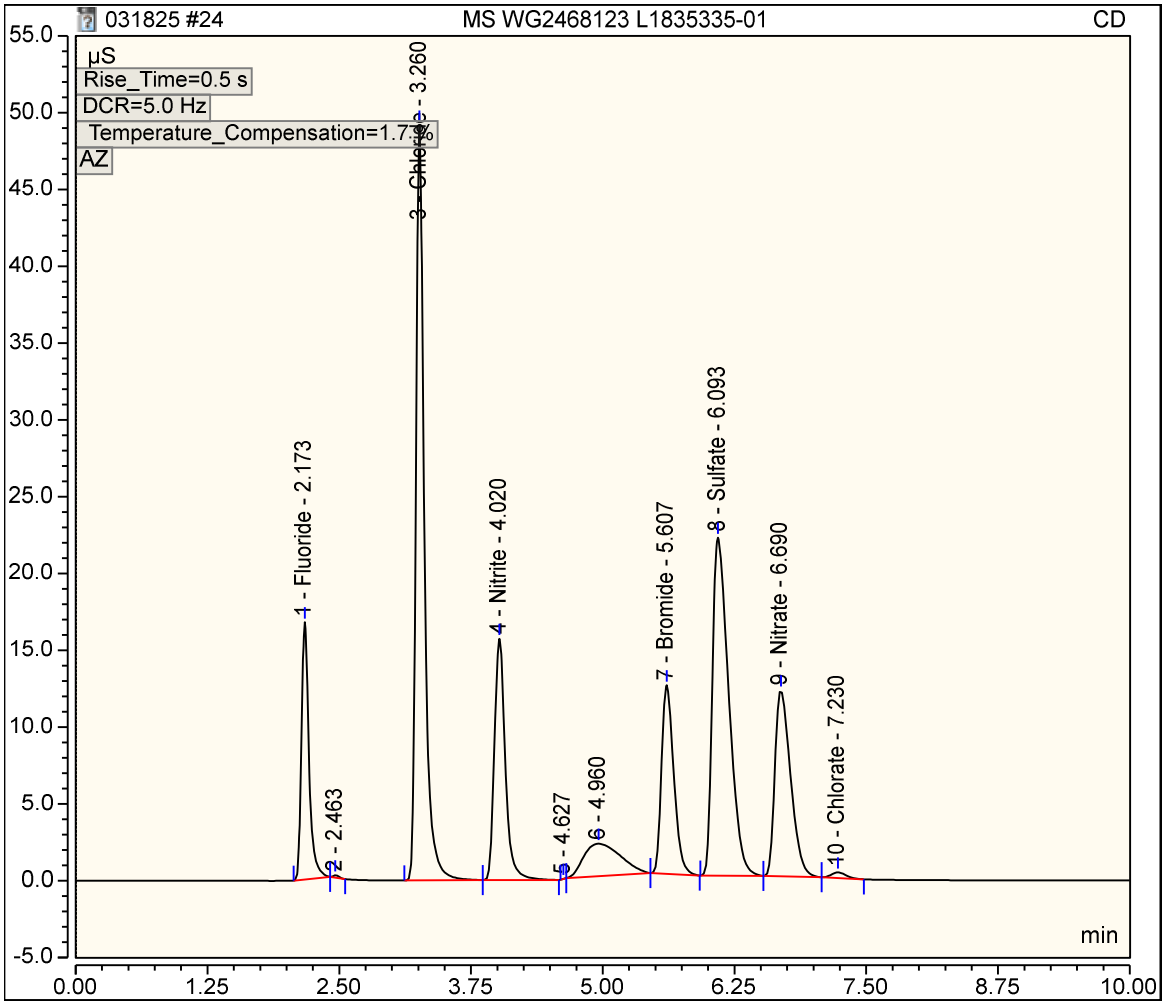
Sample Name:	**DUP WG2468123 L1835335-01**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 14:01**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.130	1.889	0.7934
4	3.26	Chloride	BMB	0.491	5.492	4.8069
5	4.01	Nitrite	BMB	0.003	0.028	0.0403
7	5.65	Bromide	BMB	0.002	0.022	0.4082
8	6.17	Sulfate	BMB	1.195	7.526	16.5073
9	6.77	Nitrate	BMB	0.151	0.997	0.6764
		TOTAL:		1.97	15.95	23.23



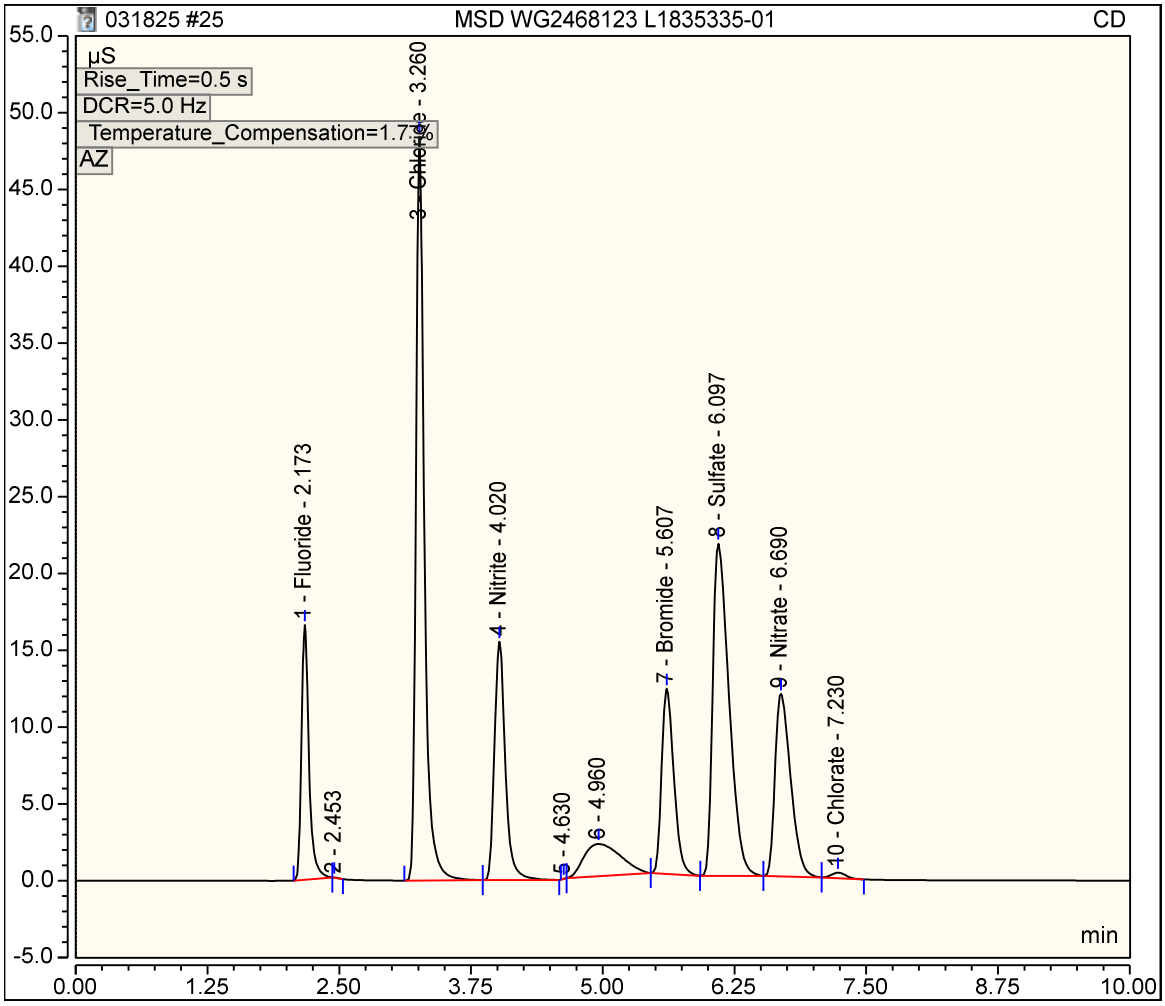
Sample Name:	**MS WG2468123 L1835335-01**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 14:15**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	1.385	16.745	8.4427
3	3.26	Chloride	BMB	4.538	49.152	43.7262
4	4.02	Nitrite	BMB	1.881	15.714	8.1244
7	5.61	Bromide	BMB	1.654	12.277	37.5685
8	6.09	Sulfate	BMB	3.961	22.003	54.3846
9	6.69	Nitrate	BMB	2.093	12.110	8.7424
10	7.23	Chlorate	BMB	0.057	0.368	2.1517
		TOTAL:		15.57	128.37	163.14



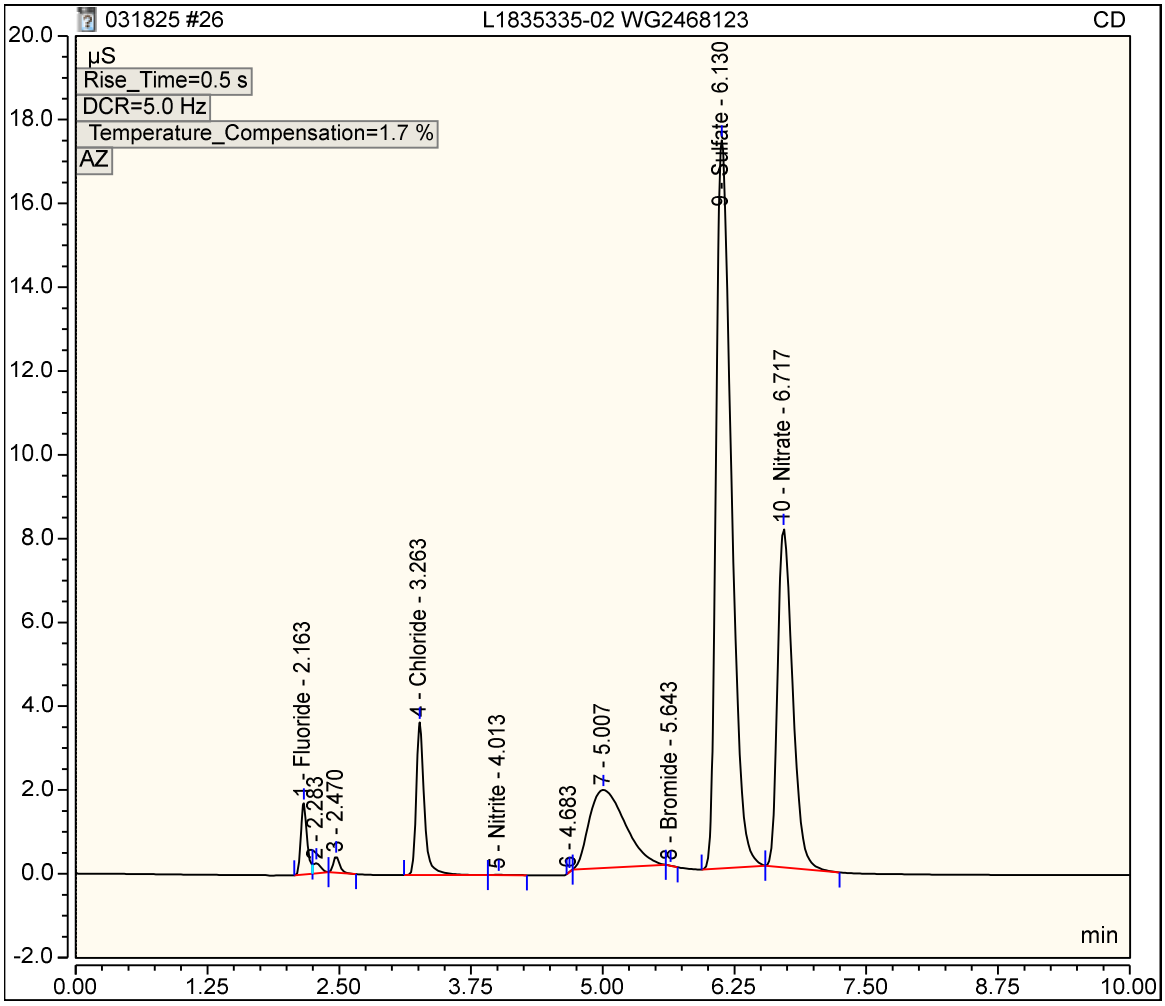
Sample Name:	**MSD WG2468123 L1835335-01**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 14:28**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	1.368	16.586	8.3386
3	3.26	Chloride	BMB	4.467	48.414	43.0427
4	4.02	Nitrite	BMB	1.854	15.515	8.0083
7	5.61	Bromide	BMB	1.619	12.055	36.7943
8	6.10	Sulfate	BMB	3.877	21.643	53.2246
9	6.69	Nitrate	BMB	2.044	11.879	8.5398
10	7.23	Chlorate	BMB	0.056	0.361	2.1116
		TOTAL:		15.29	126.45	160.06



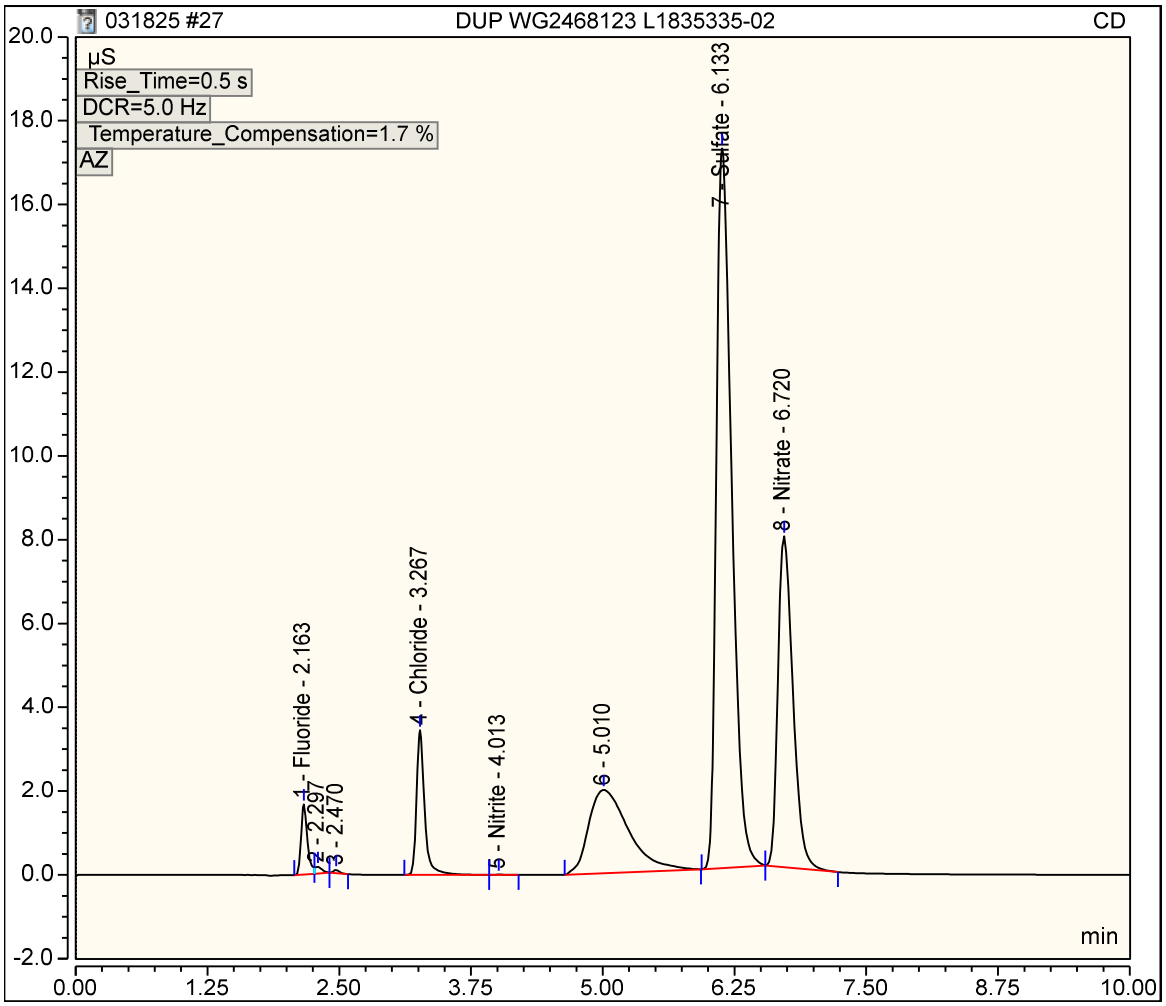
Sample Name:	**L1835335-02 WG2468123**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 14:42**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.114	1.700	0.6955
4	3.26	Chloride	BMB	0.324	3.641	3.2034
5	4.01	Nitrite	BMB	0.001	0.010	0.0328
8	5.64	Bromide	BMB	0.000	0.003	0.3720
9	6.13	Sulfate	BMB	2.935	17.374	40.3357
10	6.72	Nitrate	BMB	1.340	8.083	5.6136
		TOTAL:		4.71	30.81	50.25



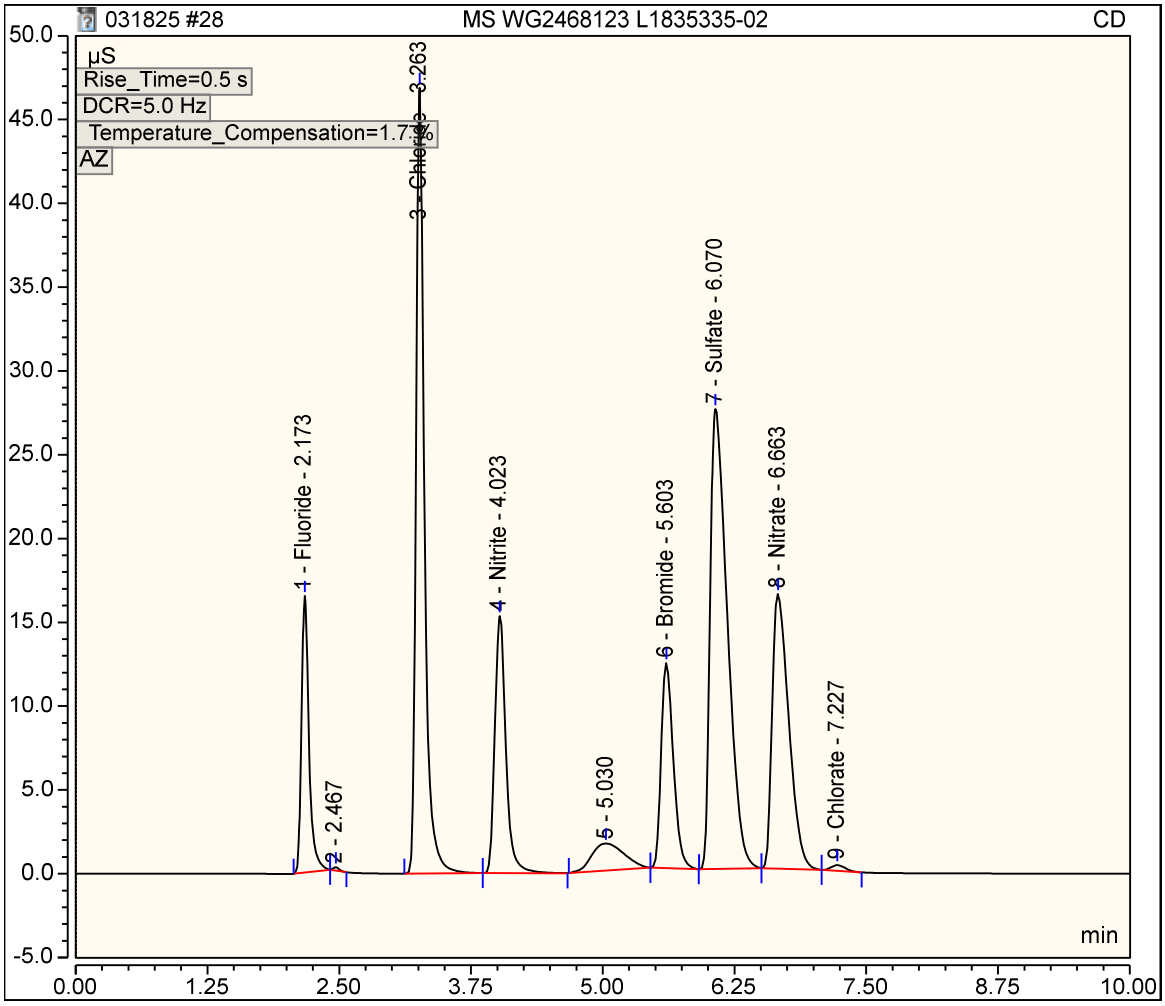
Sample Name:	**DUP WG2468123 L1835335-02**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 14:55**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.113	1.676	0.6946
4	3.27	Chloride	BMB	0.307	3.450	3.0397
5	4.01	Nitrite	BMB	0.001	0.006	0.0310
7	6.13	Sulfate	BMB	2.899	17.177	39.8322
8	6.72	Nitrate	BMB	1.305	7.893	5.4682
		TOTAL:		4.62	30.20	49.07



Sample Name:	**MS WG2468123 L1835335-02**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 15:09**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	1.357	16.516	8.2705
3	3.26	Chloride	BMB	4.341	46.892	41.8305
4	4.02	Nitrite	BMB	1.859	15.335	8.0267
6	5.60	Bromide	BMB	1.642	12.246	37.3056
7	6.07	Sulfate	BMB	5.197	27.452	71.3073
8	6.66	Nitrate	BMB	2.990	16.386	12.4686
9	7.23	Chlorate	BMB	0.053	0.345	2.0026
		TOTAL:		17.44	135.17	181.21

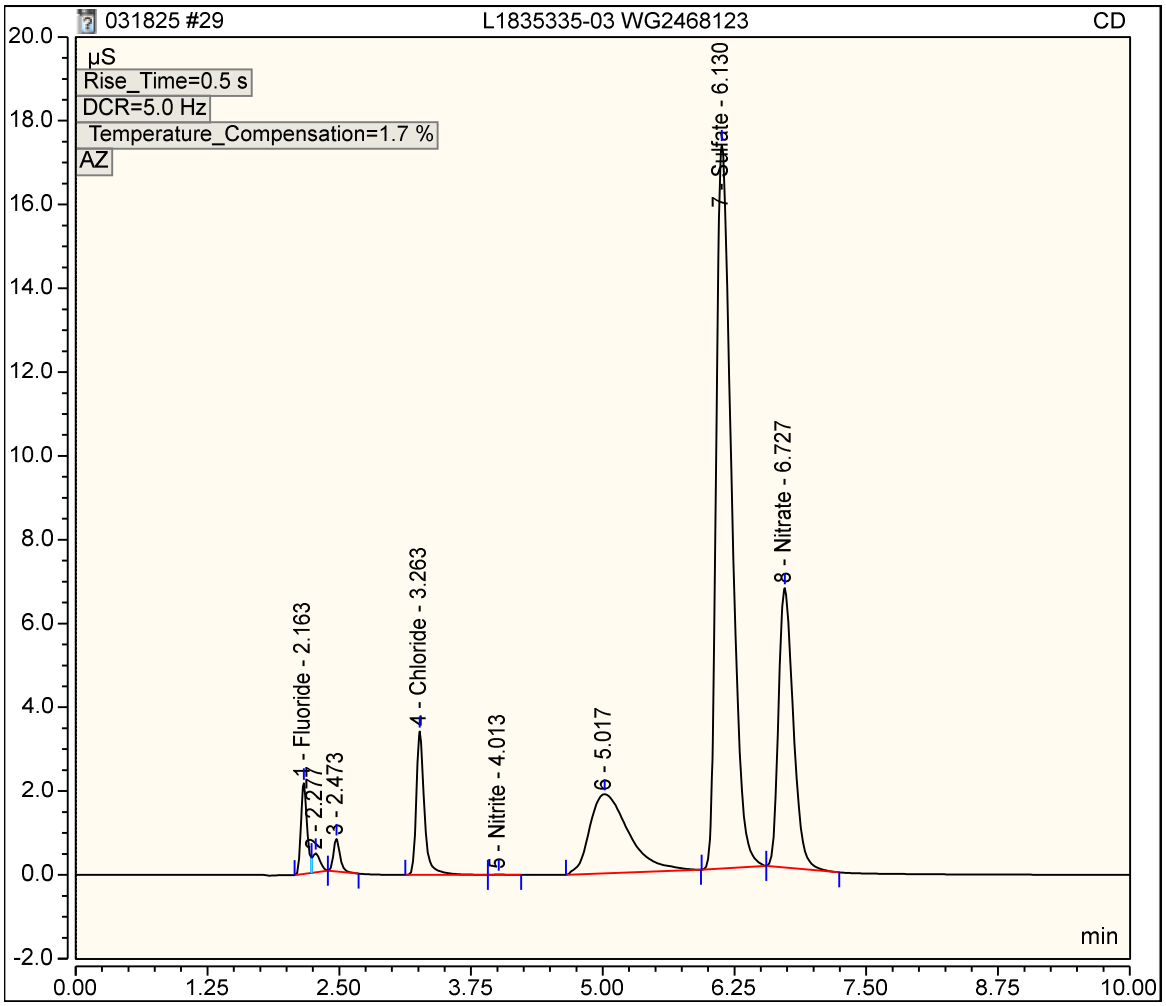


Export for Tree IC-23/Integration

PeakNet 6 (r) Dionex 2001
Version 7.2.9.11323

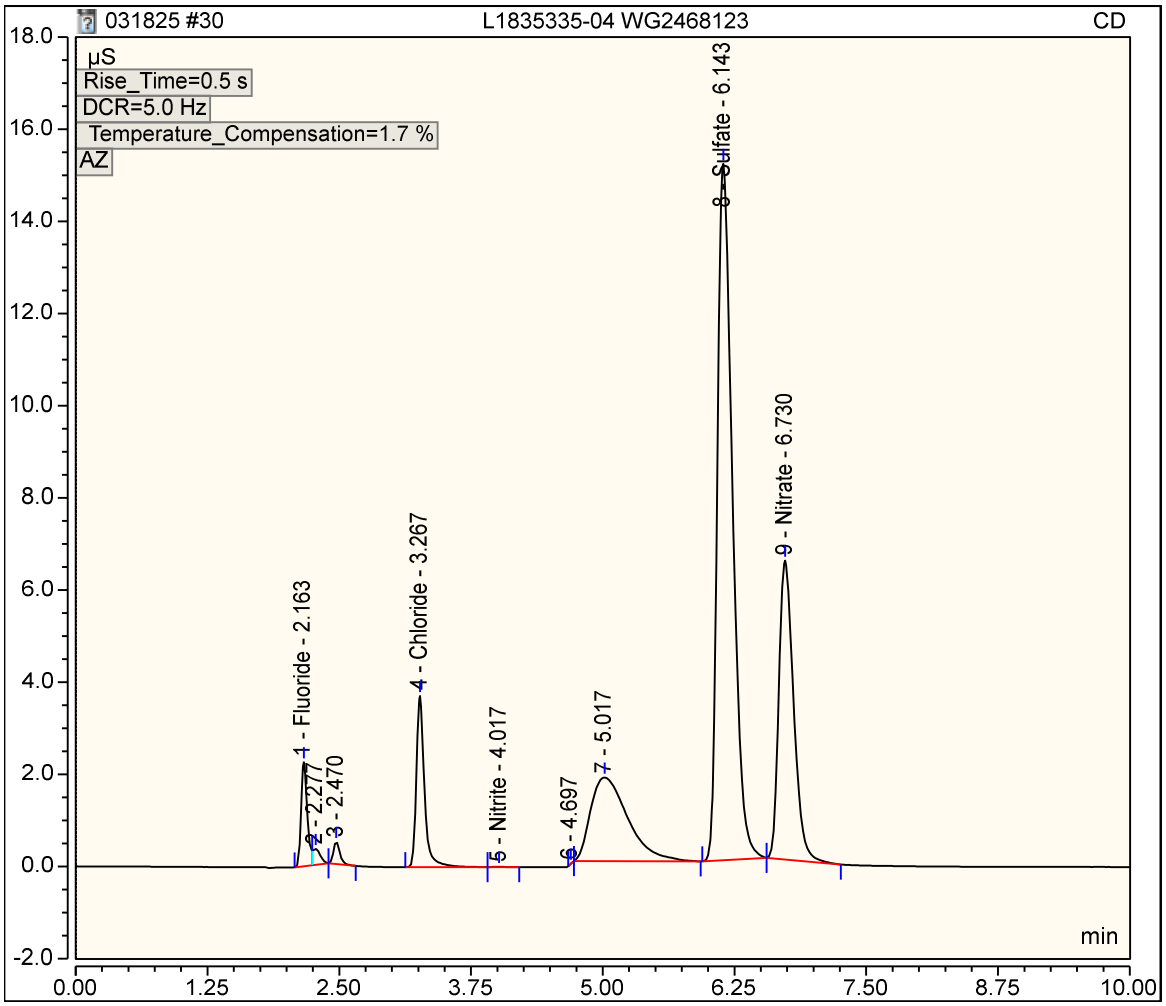
Sample Name:	**L1835335-03 WG2468123**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 15:22**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.142	2.159	0.8713
4	3.26	Chloride	BMB	0.305	3.420	3.0197
5	4.01	Nitrite	BMB	0.001	0.011	0.0330
7	6.13	Sulfate	BMB	2.921	17.273	40.1437
8	6.73	Nitrate	BMB	1.086	6.668	4.5579
TOTAL:				4.46	29.53	48.63



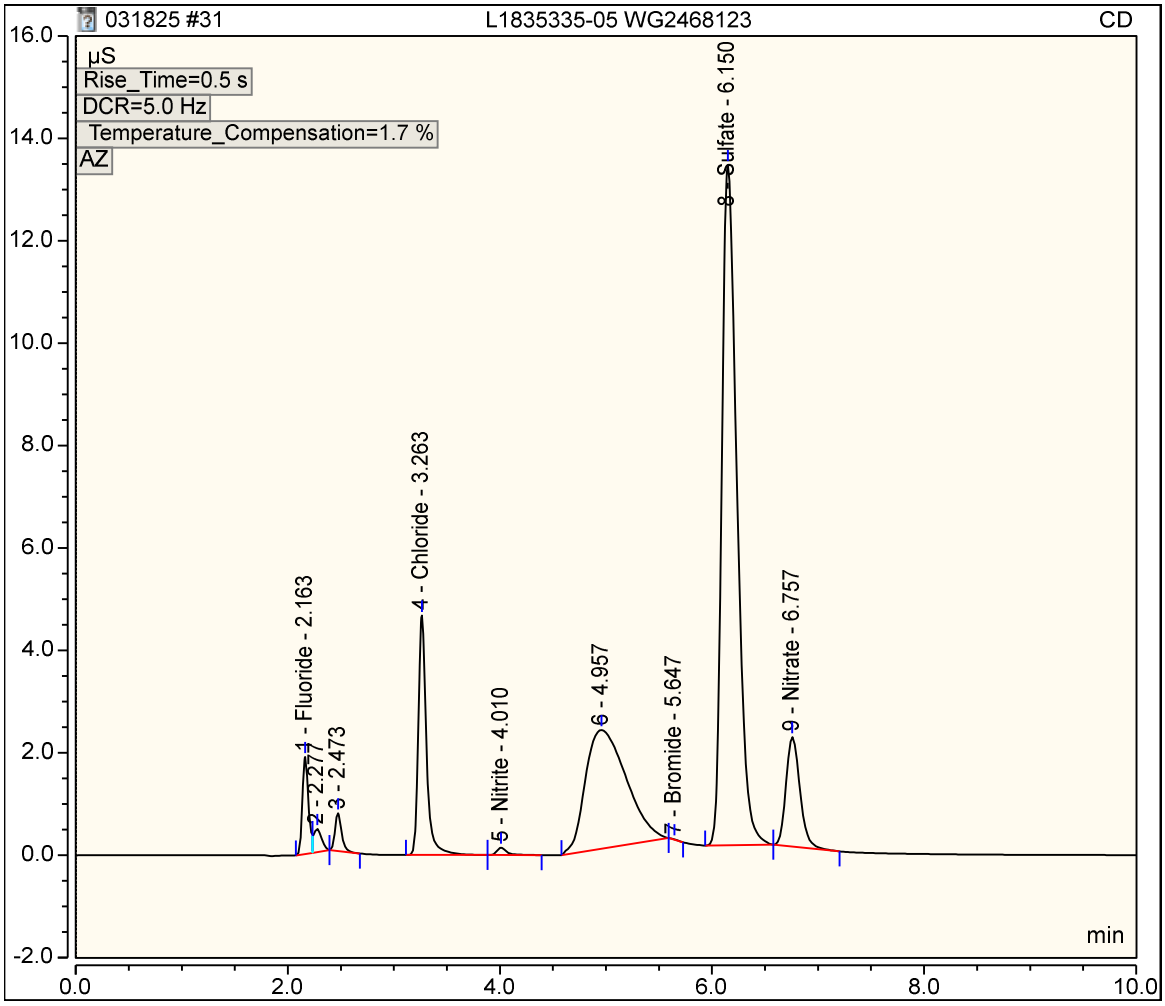
Sample Name:	**L1835335-04 WG2468123**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 15:35**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.151	2.261	0.9228
4	3.27	Chloride	BMB	0.330	3.713	3.2633
5	4.02	Nitrite	BMB	0.001	0.007	0.0313
8	6.14	Sulfate	BMB	2.501	15.108	34.3893
9	6.73	Nitrate	BMB	1.054	6.484	4.4260
		TOTAL:		4.04	27.57	43.03



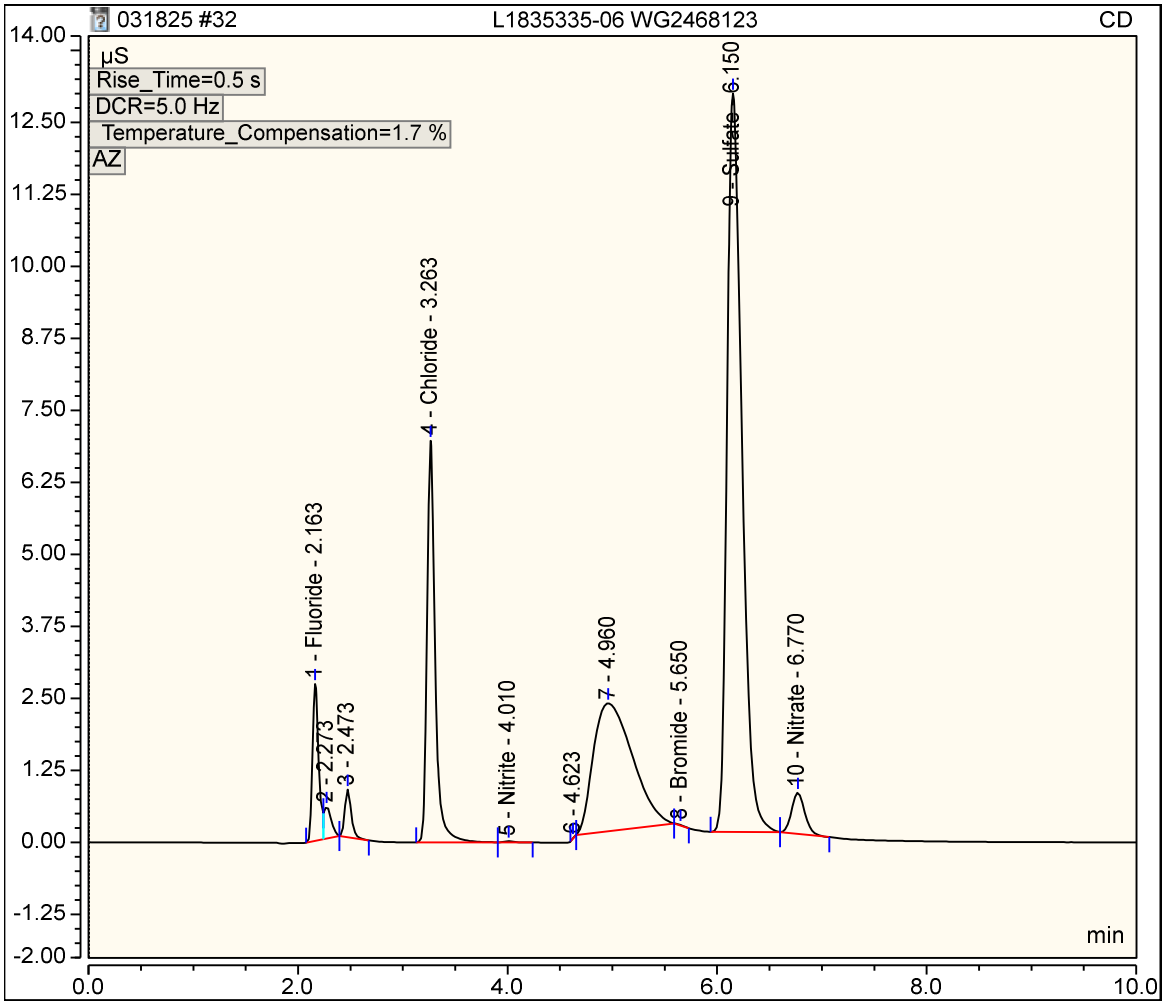
Sample Name:	**L1835335-05 WG2468123**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 15:49**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.124	1.896	0.7602
4	3.26	Chloride	BMB	0.416	4.675	4.0906
5	4.01	Nitrite	BMB	0.015	0.146	0.0945
7	5.65	Bromide	BMB	0.001	0.010	0.3837
8	6.15	Sulfate	BMB	2.189	13.288	30.1074
9	6.76	Nitrate	BMB	0.327	2.142	1.4085
		TOTAL:		3.07	22.16	36.84



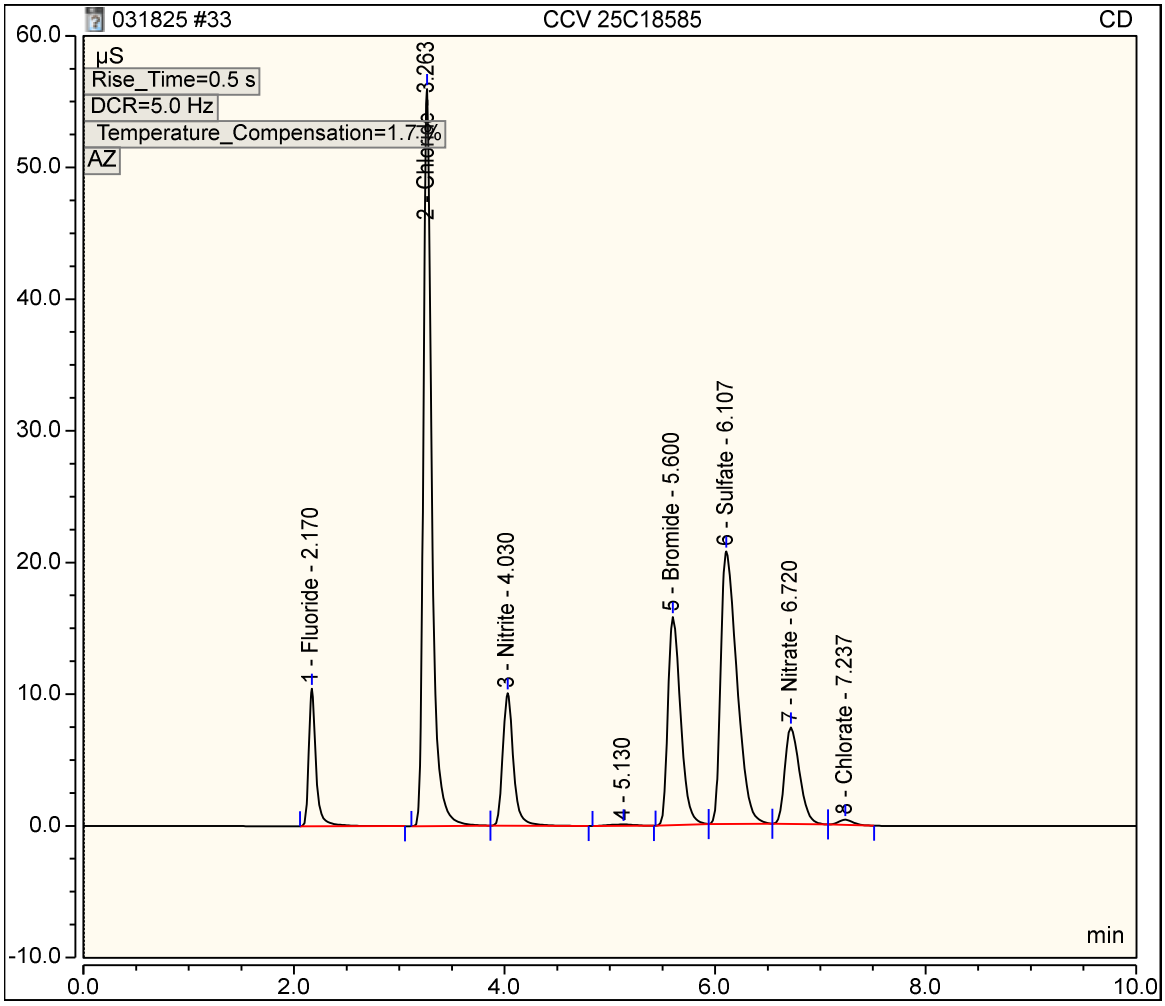
Sample Name:	**L1835335-06 WG2468123**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 16:02**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.184	2.725	1.1228
4	3.26	Chloride	BMB	0.625	6.971	6.1032
5	4.01	Nitrite	BMB	0.002	0.020	0.0366
8	5.65	Bromide	BMB	0.001	0.012	0.3881
9	6.15	Sulfate	BMB	2.110	12.817	29.0273
10	6.77	Nitrate	BMB	0.104	0.714	0.4826
		TOTAL:		3.03	23.26	37.16



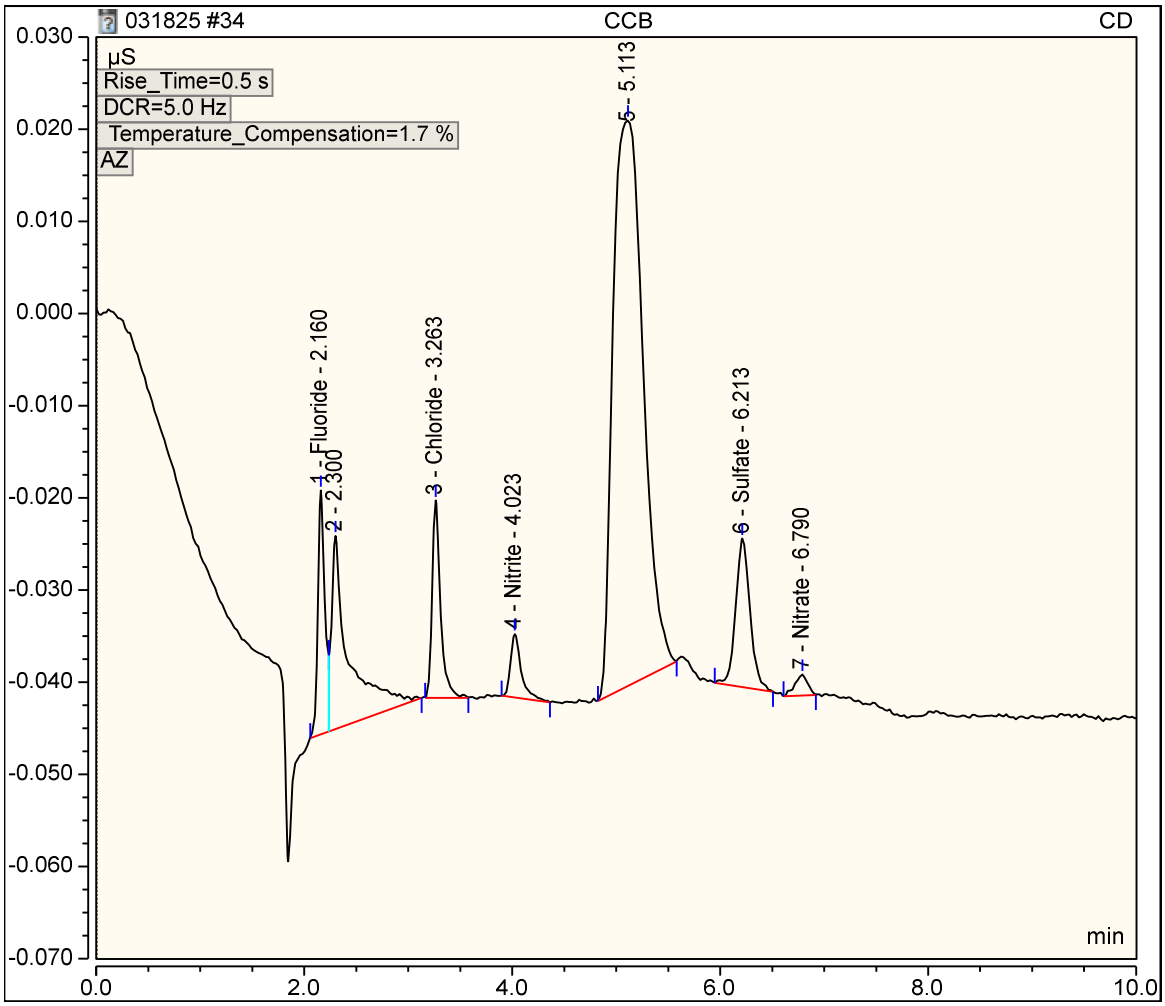
Sample Name:	**CCV 25C18585**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 16:16**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.17	Fluoride	BMB	0.845	10.454	5.1525
2	3.26	Chloride	BMB	5.226	55.978	50.3417
3	4.03	Nitrite	BMB	1.179	10.067	5.1036
5	5.60	Bromide	BMB	2.214	15.812	50.1769
6	6.11	Sulfate	BMB	3.696	20.703	50.7452
7	6.72	Nitrate	BMB	1.191	7.324	4.9954
8	7.24	Chlorate	BMB	0.062	0.397	2.3398
		TOTAL:		14.41	120.74	168.86



Sample Name:	**CCB**	*Inj. Vol.:*	**10.0**
Sample Type:	**Unknown**	*Dilution Factor:*	**1.0000**
Program:	**Anions - IC23**	*Operator:*	**WETLABIC23**
		Comments:	
Inj. Date/Time:	**03/18/25 16:29**	*Run Time:*	**10.00**

No.	Time min	Peak Name	Type	Area µS*min	Height µS	Amount
1	2.16	Fluoride	BM	0.002	0.026	0.0160
3	3.26	Chloride	BMB	0.002	0.021	0.1090
4	4.02	Nitrite	BMB	0.001	0.007	0.0319
6	6.21	Sulfate	BMB	0.003	0.016	0.1720
7	6.79	Nitrate	BMB	0.000	0.002	0.0502
		TOTAL:		0.01	0.07	0.38



ANION Waters WetChem Prep Benchsheet

Batch: WG2468123

Analyst: AJC4244 **Analyst 2:** NA___ **Analyst 3:** NA___ **Batch Date/Time:** 03/18/25 09:39-09:40 **Prep End Date/Time:** 03/18/25 14:12 **SOP:** MTJL-0155
Method: 9056/9056A/300.0/300.1/4110B **Eluent ID:** 240991834314 **0.2 Filter Lot#:** 322070012 **Syringe Lot#:** 241125 **1mL Auto Pipette SN:** VU22953
1mL Auto Pipette Tip Lot#: 25010027 **5mL Pipette Lot#:** NA **10mL Pipette Lot#:** CC75G **Dilution Tube Lot#:** LV24061004-4330-TP **Chloride Strip Lot#:** A5009A
Sulfate Strip Lot#: 052J521-DD **NO2/NO3 Strip Lot#:** NA **IC Cap/Vial Lot#:** 272627/307241016 **0.1mL Auto Pipette SN:** NA **0.1mL Auto Pipette Tip Lot#:** NA
pH Lot #: 10BDH47241

LCS/D Standard: 25C16350 Amt. Used: 2 mL Exp. Date:09/16/25 **Chlorate (LCS/LCSD):** 25C16364 Amt. Used: 0.50 mL Exp. Date:04/12/25
Anion Standard (MS/MSD): 25C16350 Amt. Used: 2 mL Exp. Date:09/16/25 **Chlorate (MS/MSD):** 25C16364 Amt. Used: 0.50 mL Exp. Date:04/12/25

Sample Number	Matrix	Method	Sample Vol. Used (mL)	Dilution Factor	Surrogate Multiplier	Chloride Strip Dil.	NO2/NO3 Strip Dil.	Sulfate Strip Dil.	Sample pH	pH Dilution	Review Analyst	Review Date
BLANK			10	1	1	1x	1x	1x	7	1x	AJC4244	03/18/25 14:13:38
LCS			10	1	1	1x	1x	1x	7	1x	AJC4244	03/18/25 14:13:38
DUP(L1835335-01)			10	1	1	1x	1x	1x	7	1x	AJC4244	03/18/25 14:13:38
DUP(L1835335-02)			10	1	1	1x	1x	1x	7	1x	AJC4244	03/18/25 14:13:38
MS(L1835335-01)			10	1	1	1x	1x	1x	7	1x	AJC4244	03/18/25 14:13:38
MS(L1835335-02)			10	1	1	1x	1x	1x	7	1x	AJC4244	03/18/25 14:13:38
MSD(L1835335-01)			10	1	1	1x	1x	1x	7	1x	AJC4244	03/18/25 14:13:38
1. L1835192-01	WW	9056	10	1	1	1x	1x	5x	7	1x	AJC4244	03/18/25 14:13:38
2. L1835192-02	WW	9056	10	1	1	1x	1x	10x	7	1x	AJC4244	03/18/25 14:13:38
3. L1835192-03	WW	9056	10	1	1	1x	1x	10x	7	1x	AJC4244	03/18/25 14:13:38
4. L1835194-01	WW	300.0	10	1	1	10x	1x	100x	7	1x	AJC4244	03/18/25 14:13:38
5. L1835335-01	GW	9056A	10	1	1	1x	1x	100x	7	1x	AJC4244	03/18/25 14:13:38
6. L1835335-02	GW	9056A	10	1	1	1x	1x	1x	7	1x	AJC4244	03/18/25 14:13:38
7. L1835335-03	GW	9056A	10	1	1	1x	1x	1x	7	1x	AJC4244	03/18/25 14:13:38
8. L1835335-04	GW	9056A	10	1	1	1x	1x	1x	7	1x	AJC4244	03/18/25 14:13:38
9. L1835335-05	GW	9056A	10	1	1	1x	1x	1x	7	1x	AJC4244	03/18/25 14:13:38
10. L1835335-06	GW	9056A	10	1	1	1x	1x	1x	7	1x	AJC4244	03/18/25 14:13:38
11. L1835343-03	GW	9056A	10	1	1	5x	1x	100x	7	1x	AJC4244	03/18/25 14:13:38
12. L1835343-04	GW	9056A	10	1	1	5x	1x	100x	7	1x	AJC4244	03/18/25 14:13:38
13. L1835343-05	GW	9056A	10	1	1	5x	1x	100x	7	1x	AJC4244	03/18/25 14:13:38
14. L1835343-09	GW	9056A	10	1	1	5x	1x	100x	7	1x	AJC4244	03/18/25 14:13:38
15. L1835343-14	GW	9056A	10	1	1	1x	1x	100x	7	1x	AJC4244	03/18/25 14:13:38
16. L1835354-01	WW	300.0	10	1	1	10x	1x	10x	7	1x	AJC4244	03/18/25 14:13:38
17. L1835354-02	WW	300.0	10	1	1	5x	1x	10x	7	1x	AJC4244	03/18/25 14:13:38
18. L1835354-03	WW	300.0	10	1	1	5x	1x	100x	7	1x	AJC4244	03/18/25 14:13:38
19. L1835354-04	WW	300.0	10	1	1	5x	1x	100x	7	1x	AJC4244	03/18/25 14:13:38
20. L1835354-05	WW	300.0	10	1	1	1x	1x	1x	7	1x	AJC4244	03/18/25 14:13:38

Comments:
IC-23 031825 Eluent ID: 240991834314

Reviewed By: AJC4244 on 03/18/25 14:13:38

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Coef1	First Order Coefficient.
Coef2	Second Order Coefficient.
Corr.	Correlation Coefficient.
Incpt	Intercept.
Mass	Mass of parameter.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RSD	Relative Standard Deviation.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Wavelength	Wavelength of parameter.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

GLOSSARY OF TERMS

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

I

Company Name/Address:	Haley & Aldrich - Phoenix 400 E. Van Buren St #545 Phoenix, AZ 85004
Billing Information:	Attn: Account Payable 70 Blanchard Rd Suite 204 Burlington, MA 01803
Report to:	Samantha Kaney 602-760-2844
Email To:	SKaney@haleyaldrich.com
Project Description:	ESI-Env. Sampling
City/State Collected:	Missouri
Please Circle:	PT MT (CT) ET
Phone:	
Client Project #	0213103-000
Lab Project #	
Collected by (print):	S. Kaney
Site/Facility ID #	
P.O. #	
Collected by (signature):	
Immediately Packed on Ice N ___ Y X	
Rush? (Lab MUST Be Notified)	___ Same Day X Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Quote #	
Date Results Needed	

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Hexavalent Chrom - EPA M3500-Cr B	Hexavalent Chrom - EPA 218.6 Field Filtered *	Total Mercury - EPA E245.1	Dissolved Mercury - EPA E245.1 Field Filtered *	Total Metals - EPA 200.7	Dissolved Metals - EPA 200.7 Field Filtered *	Total Rad 226/228 - EPA 903/904	Dissolved Rad 226/228 - EPA 903/904 Field Filtered	Sulfate Anions - EPA SW9056A		Remarks	Sample # (lab only)
Montrose_Lake_I-SW	Grab	SW	-	3/11/25	1240	8	X	X	X	X	X	X	X	X	X			01
Deepwater_I-SW	Grab	SW	-	3/11/25	1545	8	X	X	X	X	X	X	X	X	X			02
Truman_I-SW	Grab	SW	-	3/11/25	1734	5	X		X		X		X		X			03

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1835192
E132

Acctnum:
Template:
Prelogin:
PM:
PB:
Shipped Via:

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other SW surface water

Remarks: * please preserve at lab *
- no rush on rad -

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
___ UPS X FedEx ___ Courier ___ _____

Tracking # multi

Sample Receipt Checklist
COC Seal Present/Intact: ___NP ___Y ___N
COC Signed/Accurate: ___Y ___N
Bottles arrive intact: ___Y ___N
Correct bottles used: ___Y ___N
Sufficient volume sent: ___Y ___N
If Applicable
VOA Zero Headspace: ___Y ___N
Preservation Correct/Checked: ___Y ___N
RAD Screen <0.5 mR/hr: ___Y ___N

	Date:	Time:		
Relinquished by : (Signature)	3/11/2025	1745	Received by: (Signature) FedEx	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: multi 21
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Ei Dewitt 17	Date: 3-12-25 Time: 0800

If preservation required by Login: Date/Time

Hold:

Condition: (6) NCF / OK

Multiple Parcel Form L# 41835792

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
4359 9290 8213	~~0.5~~ CGA9	0.5	+0.4	= 0.9	(Yes) / No / Not Present
4359 9290 8224	CGA9	3.2	+0.4	= 3.6	(Yes) / No / Not Present
4359 9290 8202	CGA9	4.1	+0.4	= 4.5	(Yes) / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

E. Dossett '17 / Eli Dossett
Name

3-12-25
Date

3/12 L1835192 HALALDPAZ

R5

Time estimate: oh **Time spent:** oh

Members

MS Matthew Shacklock (responsible) DR Daphne Richards

- [ ] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Custody seal not intact
- [x] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Matthew Shacklock *12 March 2025 3:54 PM*

Please clarify total and dissolved metals.

Daphne Richards *12 March 2025 4:01 PM*

Hg 245.1, 200.7 lead, arsenic, boron, cobalt, barium, cadmium, chromium, lithium, silver, and selenium

Matthew Shacklock *12 March 2025 5:56 PM*

Done

ANALYTICAL REPORT

April 02, 2025

Haley & Aldrich-Phoenix, AZ

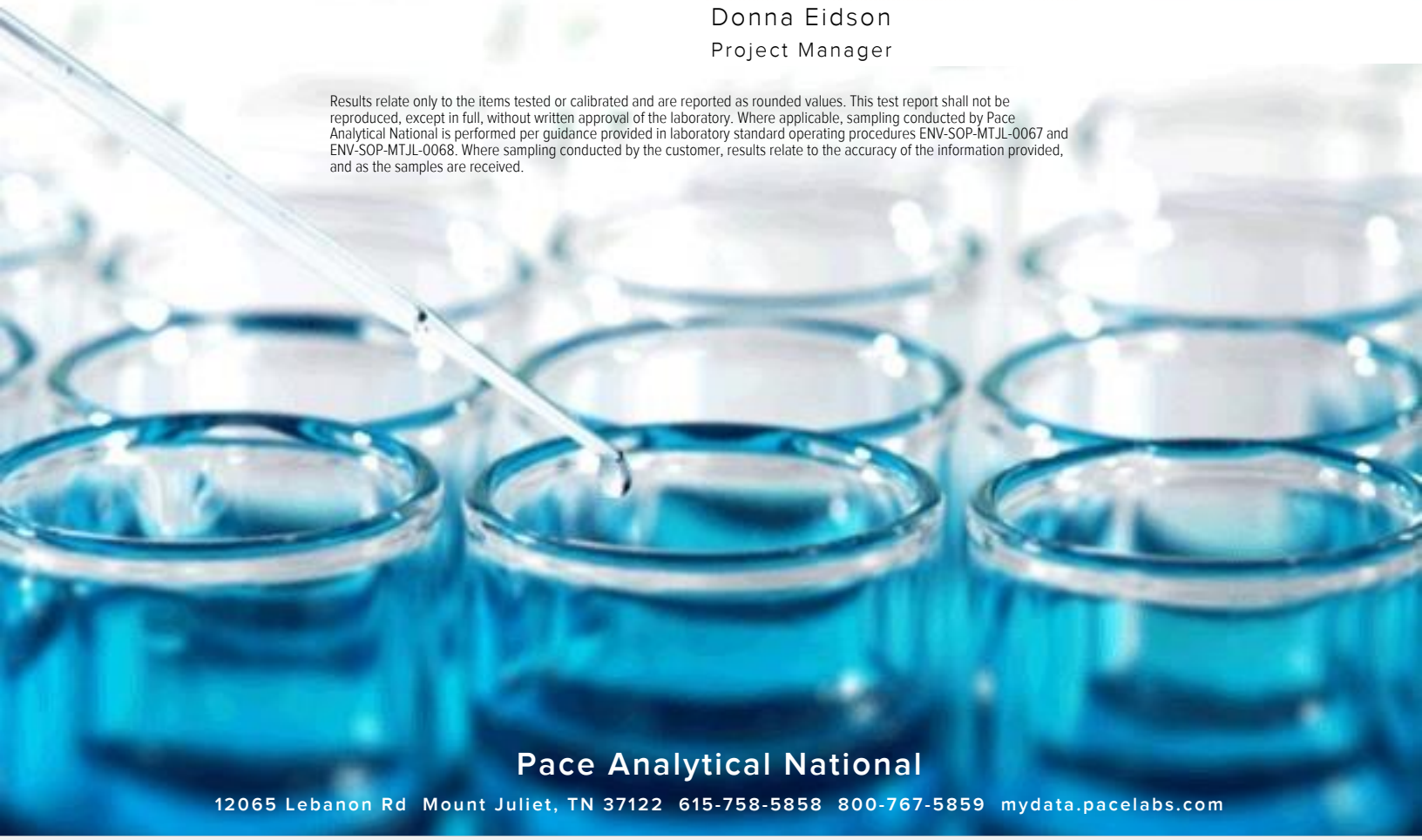
Sample Delivery Group:	L1835200
Samples Received:	03/12/2025
Project Number:	0213103-000
Description:	ESI_ENV_Sampling

Report To: Samantha Kaney
400 E. Van Buren Street, Ste 545
Phoenix, AZ 85004

Entire Report Reviewed By:

Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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MONTROSE-LAKE-I-SW L1835200-01 Non-Potable Water

Collected by: S. Kaney | Collected date/time: 03/11/25 12:40 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2470961	1	03/19/25 13:21	03/25/25 18:28	ASN	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG2472385	1	03/20/25 08:16	03/24/25 18:36	ASN	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2470390	1	03/17/25 10:10	03/20/25 18:27	DDD	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2470402	1	03/17/25 14:44	03/25/25 22:10	DDD	Mt. Juliet, TN

DEEPWATER-I-SW L1835200-02 Non-Potable Water

Collected by: S. Kaney | Collected date/time: 03/11/25 15:45 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2470961	1	03/19/25 13:21	03/25/25 19:28	ASN	Mt. Juliet, TN
Radiochemistry by Method 903.0/9315	WG2472385	1	03/20/25 08:16	03/24/25 15:13	ASN	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2470390	1	03/17/25 10:10	03/20/25 18:27	DDD	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2470402	1	03/17/25 14:44	03/25/25 22:10	DDD	Mt. Juliet, TN

TRUMAN-I-SW L1835200-03 Non-Potable Water

Collected by: S. Kaney | Collected date/time: 03/11/25 17:34 | Received date/time: 03/12/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 903.0/9315	WG2472385	1	03/20/25 08:16	03/24/25 18:36	ASN	Mt. Juliet, TN
Radiochemistry by Method 904/9320	WG2470390	1	03/17/25 10:10	03/20/25 18:27	DDD	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager

Report Revision History

Level II Report - Version 1: 04/02/25 09:22

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	0.357		0.262	0.410	0.342	0.118	03/24/2025 18:36	WG2472385
Radium-226, Dissolved	0.0969	U	0.269	0.412	0.536	0.196	03/25/2025 18:28	WG2470961
(T) Barium	*91.6*					*30.0-143*	*03/25/2025 18:28*	WG2470961
(T) Barium	*86.7*					*30.0-143*	*03/24/2025 18:36*	WG2472385

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	-0.874	U	0.384	0.692	0.778	0.407	03/20/2025 18:27	WG2470390
Radium-228, Dissolved	0.362	J	0.290	0.512	0.539	0.282	03/25/2025 22:10	WG2470402
(T) Barium	*103*					*30.0-143*	*03/20/2025 18:27*	WG2470390
(T) Barium	*85.0*					*30.0-143*	*03/25/2025 22:10*	WG2470402
(T) Yttrium	*82.8*					*30.0-136*	*03/20/2025 18:27*	WG2470390
(T) Yttrium	*94.9*					*30.0-136*	*03/25/2025 22:10*	WG2470402

Radiochemistry by Method 903.0/9315

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
Radium-226	0.379		0.257	0.408	0.290	0.0883	03/24/2025 15:13	WG2472385
Radium-226, Dissolved	0.226	U	0.319	0.458	0.556	0.211	03/25/2025 19:28	WG2470961
(T) Barium	*96.9*					*30.0-143*	*03/25/2025 19:28*	WG2470961
(T) Barium	*83.8*					*30.0-143*	*03/24/2025 15:13*	WG2472385

Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/l	Lc pCi/l	Analysis Date date / time	Batch
RADIUM-228	0.151	U	0.347	0.591	0.671	0.351	03/20/2025 18:27	WG2470390
Radium-228, Dissolved	0.234	U	0.335	0.567	0.626	0.326	03/25/2025 22:10	WG2470402
(T) Barium	*76.6*					*30.0-143*	*03/20/2025 18:27*	WG2470390
(T) Barium	*80.3*					*30.0-143*	*03/25/2025 22:10*	WG2470402
(T) Yttrium	*87.0*					*30.0-136*	*03/20/2025 18:27*	WG2470390
(T) Yttrium	*90.9*					*30.0-136*	*03/25/2025 22:10*	WG2470402

Radiochemistry by Method 903.0/9315

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
Radium-226	0.104	U	0.280	0.425	0.530	0.214	03/24/2025 18:36	WG2472385
(T) Barium	*90.3*					*30.0-143*	*03/24/2025 18:36*	WG2472385

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.367	J	0.385	0.708	0.740	0.390	03/20/2025 18:27	WG2470390
(T) Barium	*90.7*					*30.0-143*	*03/20/2025 18:27*	WG2470390
(T) Yttrium	*81.5*					*30.0-136*	*03/20/2025 18:27*	WG2470390

Method Blank (MB)

(MB) R4191047-1 03/25/25 14:27

Analyte	MB Result	MB Qualifier	MB 2 sigma CE	MB MDA	MB Lc
	pCi/l		+ / -	pCi/l	pCi/l
Radium-226	0.0463	U	0.144	0.285	0.108
(T) Barium	*101*		*101*		

L1835200-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1835200-02 03/25/25 19:28 • (DUP) R4191047-5 03/25/25 15:27

Analyte	Original Result	Original 2 sigma CE	Original MDA	Original Lc	DUP Result	DUP 2 sigma CE	DUP MDA	DUP Lc	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	pCi/l	+ / -	pCi/l	pCi/l	%			%	
Radium-226	0.226	0.319	0.556	0.211	0.000	0.536	1.19	0.451	200	0.362	U	20	3
(T) Barium	*96.9*				*94.7*	*94.7*							

Laboratory Control Sample (LCS)

(LCS) R4191047-2 03/25/25 14:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.00	5.22	104	80.0-120	
(T) Barium			*101*		

L1834569-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1834569-04 03/25/25 16:27 • (MS) R4191047-3 03/25/25 14:27 • (MSD) R4191047-4 03/25/25 14:27

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	-0.0951	19.6	19.9	98.1	99.7	1	75.0-125			1.67		20
(T) Barium		*95.2*			*99.3*	*98.3*							

Method Blank (MB)

(MB) R4190581-1 03/24/25 14:13

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0160	U	0.122	0.245	0.0989
(T) Barium	*101*		*101*		

L1835200-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1835200-02 03/24/25 15:13 • (DUP) R4190581-5 03/24/25 15:13

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.379	0.257	0.290	0.0883	-0.0673	0.476	1.03	0.416	200	0.824	U	20	3
(T) Barium	*83.8*				*94.6*	*94.6*							

Laboratory Control Sample (LCS)

(LCS) R4190581-2 03/24/25 14:13

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.63	113	80.0-120	
(T) Barium			*101*		

L1836373-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1836373-04 03/24/25 15:13 • (MS) R4190581-3 03/24/25 14:13 • (MSD) R4190581-4 03/24/25 15:13

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.911	22.4	22.4	107	107	1	75.0-125			0.179		20
(T) Barium		*97.2*			*94.4*	*101*							

Method Blank (MB)

(MB) R4189148-1 03/20/25 18:27

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.0951	U	0.146	0.283	0.149
(T) Barium	*103*		*103*		
(T) Yttrium	*88.7*		*88.7*		

L1836138-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1836138-02 03/20/25 18:27 • (DUP) R4189148-5 03/20/25 18:27

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.0758	0.358	0.698	0.366	-0.329	0.388	0.764	0.398	200	0.767	U	20	3
(T) Barium	*88.8*				*94.4*	*94.4*							
(T) Yttrium	*92.6*				*88.7*	*88.7*							

Laboratory Control Sample (LCS)

(LCS) R4189148-2 03/20/25 18:27

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.22	84.5	80.0-120	
(T) Barium			*102*		
(T) Yttrium			*96.3*		

L1835110-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1835110-03 03/20/25 18:27 • (MS) R4189148-3 03/20/25 18:27 • (MSD) R4189148-4 03/20/25 18:27

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	1.06	17.5	17.0	98.2	95.5	1	70.0-130			2.61		20
(T) Barium		*92.6*			*102*	*94.0*							
(T) Yttrium		*85.0*			*88.4*	*89.1*							

Method Blank (MB)

(MB) R4192571-1 03/25/25 22:10

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.375	U	0.184	0.362	0.189
(T) Barium	*92.0*		*92.0*		
(T) Yttrium	*97.3*		*97.3*		

L1835703-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1835703-03 03/25/25 22:10 • (DUP) R4192571-5 03/25/25 22:10

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.629	0.399	0.736	0.383	0.932	0.554	1.02	0.541	38.8	0.443	J	20	3
(T) Barium	*101*				*83.2*	*83.2*							
(T) Yttrium	*92.1*				*101*	*101*							

Laboratory Control Sample (LCS)

(LCS) R4192571-2 03/25/25 22:10

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.52	90.5	80.0-120	
(T) Barium			*103*		
(T) Yttrium			*100*		

L1834569-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1834569-04 03/25/25 22:10 • (MS) R4192571-3 03/25/25 22:10 • (MSD) R4192571-4 03/25/25 22:10

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	-0.545	15.8	15.6	94.6	93.6	1	70.0-130			1.02		20
(T) Barium		*102*			*100*	*99.1*							
(T) Yttrium		*97.1*			*86.3*	*96.0*							

903.0/9315 Radiochemistry

Radiochemistry Raw Data

RADIUM-226

SDG: WG2472385
METHOD: EPA 903.0/9315
ANALYST: ASN4036

	Ra226	2σCE	TPU	SDWA DL	Lc	mda	Units	date prep	date analysis	Analyst	
BACKGROUND DET A	0.000	0.143		0.195	0.120	0.349	pCi/l	3/20/2025	3/24/2025	ASN4036	
BACKGROUND DET B	0.000	0.270		0.280	0.227	0.564	pCi/l	3/20/2025	3/24/2025	ASN4036	
BACKGROUND DET C	-0.037	0.072		0.173	0.086	0.281	pCi/l	3/20/2025	3/24/2025	ASN4036	
BACKGROUND DET D	0.000	0.203		0.234	0.171	0.450	pCi/l	3/20/2025	3/24/2025	ASN4036	
RA-0070-WS-903-1	570.74	11.023		0.230	0.075	0.315	pCi/l	3/20/2025	3/24/2025	ASN4036	**98.3%**
RA-0070-WS-903-2	557.67	10.879		0.263	0.139	0.443	pCi/l	3/20/2025	3/24/2025	ASN4036	**96.0%**
RA-0070-WS-903-3	566.31	10.938		0.215	0.052	0.269	pCi/l	3/20/2025	3/24/2025	ASN4036	**97.5%**
RA-0070-WS-903-4	583.27	11.160		0.246	0.106	0.378	pCi/l	3/20/2025	3/24/2025	ASN4036	**100.4%**
[redacted]								3/20/2025	[redacted]	ASN4036	
BLANK WG2472385	0.016	0.122	0.259	0.122	0.099	0.245	pCi/l	3/20/2025	3/24/2025	ASN4036	
LCS WG2472385	5.627	0.589	0.726	0.075	0.037	0.122	pCi/l	3/20/2025	3/24/2025	ASN4036	
MS L1836373-04 WG2472385	22.411	2.436	2.577	0.430	0.314	0.828	pCi/l	3/20/2025	3/24/2025	ASN4036	
MSD L1836373-04 WG2472385	22.375	2.341	2.477	0.338	0.208	0.604	pCi/l	3/20/2025	3/24/2025	ASN4036	
DUP L1835200-02 WG2472385	-0.067	0.476	0.617	0.511	0.416	1.031	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1835200-02 WG2472385	0.379	0.257	0.408	0.178	0.088	0.290	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1836373-04 WG2472385	0.911	0.383	0.521	0.208	0.152	0.400	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1837683-01 WG2472385	0.166	0.195	0.336	0.178	0.110	0.318	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1837683-02 WG2472385	-0.103	0.223	0.366	0.260	0.212	0.525	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1837683-03 WG2472385	0.067	0.132	0.273	0.158	0.078	0.257	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1837683-04 WG2472385	-0.036	0.188	0.336	0.232	0.169	0.446	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1835200-01 WG2472385	0.357	0.262	0.410	0.191	0.118	0.342	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1835200-03 WG2472385	0.104	0.280	0.425	0.263	0.214	0.530	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1835679-01 WG2472385	0.342	0.220	0.357	0.147	0.073	0.238	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1835680-01 WG2472385	0.155	0.219	0.356	0.198	0.145	0.382	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1835703-01 WG2472385	0.294	0.231	0.372	0.175	0.108	0.313	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1835703-02 WG2472385	0.312	0.300	0.437	0.237	0.193	0.478	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1835703-03 WG2472385	0.873	0.355	0.502	0.164	0.081	0.267	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1835703-04 WG2472385	1.650	0.482	0.621	0.203	0.148	0.391	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1836344-01 WG2472385	0.949	0.355	0.492	0.164	0.101	0.293	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1836346-01 WG2472385	0.619	0.354	0.491	0.235	0.191	0.474	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1836352-01 WG2472385	2.406	0.556	0.696	0.153	0.076	0.249	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1836373-01 WG2472385	0.829	0.356	0.493	0.196	0.143	0.378	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1836373-02 WG2472385	1.010	0.371	0.510	0.169	0.104	0.302	pCi/l	3/20/2025	3/24/2025	ASN4036	
L1836373-03 WG2472385	1.139	0.446	0.588	0.247	0.201	0.498	pCi/l	3/20/2025	3/24/2025	ASN4036	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#####	pCi/l	3/20/2025	1/0/1900	ASN4036	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#####	pCi/l	3/20/2025	1/0/1900	ASN4036	
RA-0070-WS-903-1	576.778	11.082	11.219	0.230	0.075	0.315	pCi/l	3/20/2025	3/25/2025	ASN4036	**99.3%**
RA-0070-WS-903-2	568.000	10.979	11.117	0.264	0.139	0.443	pCi/l	3/20/2025	3/25/2025	ASN4036	**97.8%**
RA-0070-WS-903-3	570.266	10.976	11.113	0.220	0.052	0.269	pCi/l	3/20/2025	3/25/2025	ASN4036	**98.2%**
RA-0070-WS-903-4	583.385	11.161		0.246	0.106	0.378	pCi/l	3/20/2025	3/25/2025	ASN4036	**100.5%**
BACKGROUND DET A	0.073	0.175		0.000	0.120	0.349	pCi/l	3/20/2025	3/25/2025	ASN4036	
BACKGROUND DET B	-0.147	0.228		0.000	0.227	0.564	pCi/l	3/20/2025	3/25/2025	ASN4036	
BACKGROUND DET C	0.110	0.161		0.000	0.086	0.281	pCi/l	3/20/2025	3/25/2025	ASN4036	
BACKGROUND DET D	0.073	0.226		0.000	0.171	0.450	pCi/l	3/20/2025	3/25/2025	ASN4036	

Radium EPA 903.0/9315
SDG: WG2472385
METHOD: EPA 903.0/9315
ANALYST: ASN4036
Prep Date: 03/20/25

Detector	EFF	BKG COUNTS	COUNT TIME	BKG CPM
Detector A	20.6%	2	60	0.033
Detector B	20.4%	7	60	0.117
Detector C	20.5%	1	60	0.017
Detector D	20.5%	4	60	0.067

If Background is 0 use 1.

Ba Carrier ID: 25C14200
Standardization Date 3/17/2025 8:25

planchet tare	planchet gross	net weight
0.08280	0.13658	0.05378
0.08291	0.13688	0.05397
0.08295	0.13678	0.05383
	ave =	**0.05386**

id	sample size	alpha counts	count time	ppt time	time count end		igf	Detector #	CPM back	Bkg Counts	eff	planchet tare (g)	planchet gross (g)	net weight(g)	ba rec	Ba Rec use	
BACKGROUND DET A	1.000	2	60	3/24/25 10:43	3/24/25 10:43	0	1.000	A	0.033	2.0	20.6%			0.00000	100.0%	100.0%	BACKGROUND DET A
BACKGROUND DET B	1.000	7	60	3/24/25 10:43	3/24/25 10:43	0	1.000	B	0.117	7.0	20.4%			0.00000	100.0%	100.0%	BACKGROUND DET B
BACKGROUND DET C	1.000	0	60	3/24/25 10:43	3/24/25 10:43	0	1.000	C	0.017	1.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET C
BACKGROUND DET D	1.000	4	60	3/24/25 10:43	3/24/25 10:43	0	1.000	D	0.067	4.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET D
RA-0070-WS-903-1	1.000	10299	10	4/6/21 14:15	3/24/25 11:08	34749	4.000	A	0.033	0.3	20.6%			0.00000	98.6%	98.6%	RA-0070-WS-903-1
RA-0070-WS-903-2	1.000	10098	10	4/6/21 14:15	3/24/25 11:08	34749	4.000	B	0.117	1.2	20.4%			0.00000	100.6%	100.0%	RA-0070-WS-903-2
RA-0070-WS-903-3	1.000	10299	10	4/6/21 14:15	3/24/25 11:08	34749	4.000	C	0.017	0.2	20.5%			0.00000	102.2%	100.0%	RA-0070-WS-903-3
RA-0070-WS-903-4	1.000	10495	10	4/6/21 14:15	3/24/25 11:08	34749	4.000	D	0.067	0.7	20.5%			0.00000	98.6%	98.6%	RA-0070-WS-903-4
						0	1.000								0.0%		
BLANK WG2472385	1.000	8	60	3/21/25 11:02	3/24/25 14:13	75	2.300	B	0.117	7.0	20.4%	0.08418	0.1384	0.05422	100.7%	100.0%	BLANK WG2472385
LCS WG2472385	1.000	354	60	3/21/25 11:02	3/24/25 14:13	75	2.300	C	0.017	1.0	20.5%	0.08298	0.13757	0.05459	101.4%	100.0%	LCS WG2472385
MS L1836373-04 WG2472385	0.250	337	60	3/21/25 11:02	3/24/25 14:13	75	2.300	D	0.067	4.0	20.5%	0.08317	0.13404	0.05087	94.4%	94.4%	MS L1836373-04 WG2472385
MSD L1836373-04 WG2472385	0.250	357	60	3/21/25 11:02	3/24/25 15:13	76	2.312	A	0.033	2.0	20.6%	0.08313	0.13779	0.05466	101.5%	100.0%	MSD L1836373-04 WG2472385
DUP L1835200-02 WG2472385	0.250	6	60	3/21/25 11:02	3/24/25 15:13	76	2.312	B	0.117	7.0	20.4%	0.08269	0.13363	0.05094	94.6%	94.6%	DUP L1835200-02 WG2472385
L1835200-02 WG2472385	0.500	11	60	3/21/25 11:02	3/24/25 15:13	76	2.312	C	0.017	1.0	20.5%	0.08421	0.12932	0.04511	83.8%	83.8%	L1835200-02 WG2472385
L1836373-04 WG2472385	0.500	32	60	3/21/25 11:02	3/24/25 15:13	76	2.312	D	0.067	4.0	20.5%	0.08415	0.13648	0.05233	97.2%	97.2%	L1836373-04 WG2472385
L1837683-01 WG2472385	0.500	7	60	3/21/25 11:02	3/24/25 16:14	77	2.325	A	0.033	2.0	20.6%	0.08447	0.13533	0.05086	94.4%	94.4%	L1837683-01 WG2472385
L1837683-02 WG2472385	0.500	4	60	3/21/25 11:02	3/24/25 16:14	77	2.325	B	0.117	7.0	20.4%	0.08437	0.13415	0.04978	92.4%	92.4%	L1837683-02 WG2472385
L1837683-03 WG2472385	0.500	3	60	3/21/25 11:02	3/24/25 16:14	77	2.325	C	0.017	1.0	20.5%	0.0843	0.13492	0.05062	94.0%	94.0%	L1837683-03 WG2472385
L1837683-04 WG2472385	0.500	3	60	3/21/25 11:02	3/24/25 16:14	77	2.325	D	0.067	4.0	20.5%	0.08429	0.131	0.04671	86.7%	86.7%	L1837683-04 WG2472385
L1835200-01 WG2472385	0.500	12	60	3/21/25 11:02	3/24/25 18:36	80	2.355	A	0.033	2.0	20.6%	0.08304	0.12973	0.04669	86.7%	86.7%	L1835200-01 WG2472385
L1835200-03 WG2472385	0.500	10	60	3/21/25 11:02	3/24/25 18:36	80	2.355	B	0.117	7.0	20.4%	0.08419	0.13281	0.04862	90.3%	90.3%	L1835200-03 WG2472385
L1835679-01 WG2472385	0.500	12	60	3/21/25 11:02	3/24/25 18:36	80	2.355	C	0.017	1.0	20.5%	0.08433	0.14158	0.05725	106.3%	100.0%	L1835679-01 WG2472385
L1835680-01 WG2472385	0.500	9	60	3/21/25 11:02	3/24/25 18:36	80	2.355	D	0.067	4.0	20.5%	0.08421	0.13976	0.05555	103.1%	100.0%	L1835680-01 WG2472385
L1835703-01 WG2472385	0.500	11	60	3/21/25 11:02	3/24/25 19:36	81	2.367	A	0.033	2.0	20.6%	0.08435	0.13509	0.05074	94.2%	94.2%	L1835703-01 WG2472385
L1835703-02 WG2472385	0.500	17	60	3/21/25 11:02	3/24/25 19:36	81	2.367	B	0.117	7.0	20.4%	0.08427	0.13795	0.05368	99.7%	99.7%	L1835703-02 WG2472385
L1835703-03 WG2472385	0.500	26	60	3/21/25 11:02	3/24/25 19:36	81	2.367	C	0.017	1.0	20.5%	0.0843	0.13209	0.04779	88.7%	88.7%	L1835703-03 WG2472385
L1835703-04 WG2472385	0.500	56	60	3/21/25 11:02	3/24/25 19:36	81	2.367	D	0.067	4.0	20.5%	0.08448	0.13687	0.05239	97.3%	97.3%	L1835703-04 WG2472385
L1836344-01 WG2472385	0.500	33	60	3/21/25 11:02	3/24/25 20:37	82	2.380	A	0.033	2.0	20.6%	0.08396	0.16303	0.07907	146.8%	100.0%	L1836344-01 WG2472385
L1836346-01 WG2472385	0.500	27	60	3/21/25 11:02	3/24/25 20:37	82	2.380	B	0.117	7.0	20.4%	0.08424	0.14363	0.05939	110.3%	100.0%	L1836346-01 WG2472385
L1836352-01 WG2472385	0.500	75	60	3/21/25 11:02	3/24/25 20:37	82	2.380	C	0.017	1.0	20.5%	0.08438	0.13542	0.05104	94.8%	94.8%	L1836352-01 WG2472385
L1836373-01 WG2472385	0.500	31	60	3/21/25 11:02	3/24/25 20:37	82	2.380	D	0.067	4.0	20.5%	0.08417	0.1381	0.05393	100.1%	100.0%	L1836373-01 WG2472385
L1836373-02 WG2472385	0.500	34	60	3/21/2025 11:02	03/24/2025 21:37	83	2.392	A	0.033	2.0	20.6%	0.08432	0.13632	0.05200	96.5%	96.5%	L1836373-02 WG2472385
L1836373-03 WG2472385	0.500	42	60	3/21/2025 11:02	03/24/2025 21:37	83	2.392	B	0.117	7.0	20.4%	0.08422	0.13519	0.05097	94.6%	94.6%	L1836373-03 WG2472385
						0	1.000		FALSE	0.0	FALSE			0.00000	0.0%	0.0%	0
						0	1.000		FALSE	0.0	FALSE			0.00000	0.0%	0.0%	0
RA-0070-WS-903-1	1.000	10408	10	4/6/21 14:15	3/25/25 5:00	34767	4.000	A	0.033	0.3	20.6%			0.00000	98.6%	98.6%	RA-0070-WS-903-1
RA-0070-WS-903-2	1.000	10285	10	4/6/21 14:15	3/25/25 5:00	34767	4.000	B	0.117	1.2	20.4%			0.00000	100.6%	100.0%	RA-0070-WS-903-2
RA-0070-WS-903-3	1.000	10371	10	4/6/21 14:15	3/25/25 5:00	34767	4.000	C	0.017	0.2	20.5%			0.00000	102.2%	100.0%	RA-0070-WS-903-3
RA-0070-WS-903-4	1.000	10497	10	4/6/21 14:15	3/25/25 5:00	34767	4.000	D	0.067	0.7	20.5%			0.00000	98.6%	98.6%	RA-0070-WS-903-4
BACKGROUND DET A	1.000	4	60	3/25/25 4:39	3/25/25 4:39	0	1.000	A	0.033	2.0	20.6%			0.00000	100.0%	100.0%	BACKGROUND DET A
BACKGROUND DET B	1.000	3	60	3/25/25 4:39	3/25/25 4:39	0	1.000	B	0.117	7.0	20.4%			0.00000	100.0%	100.0%	BACKGROUND DET B
BACKGROUND DET C	1.000	4	60	3/25/25 4:39	3/25/25 4:39	0	1.000	C	0.017	1.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET C
BACKGROUND DET D	1.000	6	60	3/25/25 4:39	3/25/25 4:39	0	1.000	D	0.067	4.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET D
																	0

QC REPORT

ANALYTE: **Ra226**
METHOD: **EPA 903.0/9315**
SDG: **WG2472385**
UNITS: **pCi/L**
STD ID: **25B04944** Vol. **1** ml

	Ra226	2σCE	TPU	SDWA DL	Lc	mda	known	%REC	LIMITS LOW	LIMITS HIGH	RPD	LIMITS	RER	LIMITS
BLANK WG2472385	0.016	0.122	0.259	0.122	0.099	0.245								
LCS WG2472385	5.627	0.589	0.726	0.075	0.037	0.122	**5.00**	**112.5%**	80%	120%				
L1835200-02 WG2472385	0.379	0.257	0.408	0.178	0.088	0.290								
DUP L1835200-02 WG2472385	-0.067	0.476	0.617	0.511	0.416	1.031					NC	20%	**0.824**	3
L1836373-04 WG2472385	0.911	0.383	0.521	0.208	0.152	0.400								
MS L1836373-04 WG2472385	22.411	2.436	2.577	0.430	0.314	0.828	**20.0**	**107.5%**	75%	125%				
MSD L1836373-04 WG2472385	22.375	2.341	2.477	0.338	0.208	0.604	**20.0**	**107.3%**	75%	125%	0.16%			

*** - Outside Control Limits**

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Ra226 Source
No.3613
ml HCl 41.66667
25B04944

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 08-Apr-24
DATE OF CALIBRATION 20-Mar-25

Ao =	588.69	pCi/ml
N =	0.00	
T(1/2) =	1600.00	years
T =	0.95	years
Standard Volume	8.50	
Final Volume =	1000.00	
dilution =	117.65	
A =	588.452	pCi/ml
A =	11.104	dpm/ml
A =	5.00	pCi/ml

A = 5.00 pCi/ml

Uncertainty	3.70%
Weight	0.00%
Volume (1000 ml	0.03%
Volume (100 ml /	0.40%
Volume (1000 ml	0.03%
CSU	3.72%

Activity 5.00 +/- 0.186 pCi/ml

Amersham International

ESC37429

Certificate of calibration of radioactive reference solution

M 29913

Description	Principal radionuclide:	Radium 226	Product code: RAY 94
			Solution number: R/013/127
Measurement	Reference time:	1200 GMT on 19 February 1998	
	Radioactive concentration of radium-226:	4.37n	kilobecquerels per gram of solution
	which is equivalent to:	118.3	nanocuries per gram of solution
	Mass of solution:	5.0345	grams
	Total activity of radium-226:	22.03	kilobecquerels
	which is equivalent to:	595.4	nanocuries
	Recommended half life:	1600.00	years

Method of measurement:
The activity of the solution was measured in a high pressure re-entrant ionisation chamber calibrated with a large number of absolutely standardised solutions.

Accuracy

Overall uncertainty in the radioactive concentration quoted above: ± 3.7 %

Random uncertainty: ± 0.7 % Systematic uncertainty: ± 3.0 %

The limits of overall uncertainty were taken as the arithmetic sum of the uncertainty due to random variations, calculated at the 99.7% confidence level, and the estimated systematic uncertainties in the measurement.

Radionuclidic Purity

The estimated activities of any radioactive impurities found by high-resolution gamma ray spectrometry, or in any other examination of the solution, are listed below expressed as percentages of the activity of the principal radionuclide at the reference time.

Chemical Composition

Carrier free in 0.5M HCl

Remarks

At the reference date radium 226 was shown to be in radioactive equilibrium with its daughter nuclides down the decay chain to polonium-214 and thallium-210, the precursors of lead-210. The ionisation chamber was calibrated using a standard supplied by the National Institute of Standards and Technology, Washington DC, U.S.A.

This product meets the quality assurance requirements of the NRC Regulatory Guide 4.15 for achieving implicit NIST traceability as defined in NCRP 58 (1985).

Issuer Signatory

B D D Singleton

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The Health Science Group

Calibration Data EPA 903/9315

id	sample size	counts	time	ppt time	count time	Hours	igf	det	BKG	planchet tare	planchet gross	ba rec	eff		
RA-0070-WS-903-1	1	16166	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	A	0.083	7.85288	7.91579	98.6%	20.9%	0.06291	
RA-0070-WS-903-4	1	15891	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	A	0.083	7.85288	7.91579	98.6%	20.5%	0.06291	
RA-0070-WS-903-3	1	15850	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	A	0.083	7.86129	7.92648	102.2%	20.5%	0.06519	Avg
RA-0070-WS-903-2	1	15849	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	A	0.083	7.84269	7.90683	100.6%	20.5%	0.06414	
												100.0%	**20.6%**	0.06379	
RA-0070-WS-903-2	1	15429	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	B	0.017				19.9%		
RA-0070-WS-903-1	1	15805	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	B	0.017				20.4%		
RA-0070-WS-903-4	1	15893	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	B	0.017				20.5%		
RA-0070-WS-903-3	1	15960	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	B	0.017				20.6%		
													20.4%		
RA-0070-WS-903-3	1	16033	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	C	0.033				20.7%		
RA-0070-WS-903-2	1	15587	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	C	0.033				20.1%		
RA-0070-WS-903-1	1	15727	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	C	0.033				20.3%		
RA-0070-WS-903-4	1	16022	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	C	0.033				20.7%		
													20.5%		
RA-0070-WS-903-4	1	16034	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	D	0.017				20.7%		
RA-0070-WS-903-3	1	15985	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	D	0.017				20.7%		
RA-0070-WS-903-2	1	15668	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	D	0.017				20.3%		
RA-0070-WS-903-1	1	15880	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	D	0.017				20.5%		
													20.5%		

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Source: Ra-226
Lot No. R4/131/35
ID: **RA-0070-WS1**
19L06745

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 01-Nov-16
DATE OF CALIBRATION 30-Jan-25

Ao =	58.28	nCi
N =	0.00	
T(1/2) =	1600.00	years
T =	8.25	years
VOLUME OF STD	1.00	
FINAL VOL	100.00	
dilution =	100.00	
A =	58.07	nCi
A =	1289.22	dpm/ml
A =	**581**	pCi/ml

Uncertainty 3.70%

Volume 0.04%

CSU 3.70%

Activity 581 +/- 21 pCi/ml

1 AD 1 x 5mL

RH-0065-V5

Amersham International plc
Amersham Laboratories

Certificate of calibration of radioactive reference solution

M 28796

NAMAS
CALIBRATION
No. 0146

ESC38625

Description	Principal radionuclide:	Radium-226	Product code: RAY.44
			Solution number: R4/131/35
Measurement	Reference time:		1200 GMT on 2 September 1936
	Radioactive concentration of radium-226:	43.80	kilobecquerels per gram of solution
	which is equivalent to:	1.184	microcuries per gram of solution
	Mass of solution:	5.0330	grams
	Total activity of radium-226:	220.5	kilobecquerels
	which is equivalent to:	5.959	microcuries
	Recommended half life:	1600	years

Method of measurement used:
The activity of the solution was measured in a high pressure re-entrant ionisation chamber calibrated with a large number of absolutely standardised solutions.

ENVIRONMENTAL CORE

Accuracy: Overall uncertainty in the radioactive concentration quoted above: ± 3.7 %

Random uncertainty: ± 0.7 % Systematic uncertainty: ± 3.0 %

The limits of overall uncertainty were taken as the arithmetic sum of the uncertainty due to random variations, calculated at the 99.7% confidence level, and the estimated systematic uncertainties in the measurement.

Radionuclidic Purity: The estimated activities of any radioactive impurities found by high resolution gamma ray spectrometry, or in any other examination of the solution, are listed below expressed as percentages of the activity of the principal radionuclide at the reference time.

Chemical Composition: Carrier free in 0.5M HCl

Remarks: At the reference time radium-226 was shown to be in radioactive equilibrium with its daughter nuclides down the decay chain to polonium-214 and thallium 210, the precursors of lead-210. The ionisation chamber was calibrated using a standard supplied by the National Institute of Standards and Technology, Washington DC, USA.

This product meets the quality assurance requirements of the NRC Regulatory Guide 4.15 for achieving implicit NIST traceability as defined in NCRP 58 (1985).

Approved Signatory

W F Case

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Amersham
The Health Science Group

View as PDF (CreatePDF?batchnum=WG2472385)

RA-226 903.0 Radiochemistry Prep Benchsheet

Batch: WG2472385

Analyst: LAG4246 Prep Start Date/Time: 03/20/25 08:16 Prep End Date/Time: 03/21/25 14:22 Method: EPA 903.0 SOP: ENV-SOP-MTJL-0353/0370 Pipet ID: E-11, E-22, E-14 Bal ID: RADBAL6 Stirrer ID's: St38, St45, St46
Hot Plate ID: HP20, HP21 Centrifuge ID: C6 Centrifuge Tube Lot: 920142 Transfer Pipette Lot: 24180063 1mL e-Pipet Tip Log: 2243 2mL e-Pipet Tip Lot: 2418 10mL e-Pipet Tip Lot: 2332 10mL Manual Pipet Lot: P7601073
pH Lot: 10BDH3921 Filter Lot#: F4KB68830 Filter Lot#: na Oven ID: Ra-226

LCS/D Standard: 25B04944 Amt. Used: 1 mL Exp. Date:04/09/25 MS/D Standard: 25B04944 Amt. Used: 1 mL Exp. Date:04/09/25 16 mg/mL Barium Carrier: 25C14200 Amt. Used: 2 Exp. Date:05/31/25
Lead Nitrate Carrier: 24J25400 Amt. Used: 1 Exp. Date:10/25/25 Citric Acid: 25C17500 Amt. Used: 5 Exp. Date:09/30/25 1:1 H2SO4: 25C19960 Amt. Used: 20 Exp. Date:03/19/26 Methyl Orange: 24L05047 Amt. Used: 0.50 Exp. Date:12/05/25
0.25M EDTA: 25C18611 Amt. Used: 15 Exp. Date:03/18/26 200 mg/mL Ammonium Sulfate: 24K06043 Amt. Used: 1 Exp. Date:11/06/25 Bromocresol Green: 24L05046 Amt. Used: 0.50 Exp. Date:12/05/25
Acetic Acid: 25A06030 Amt. Used: 3 Exp. Date:06/19/26 HNO3: 25C12757 Amt. Used: 20 Exp. Date:09/30/29 5N Ammonium Hydroxide: 25C12721 Amt. Used: 3 Exp. Date:03/12/26

Sample Number	Collect Date	Sample Volume (mL)	Precipitation Time	Tare Wt (g)	Gross Wt (g)	Final Wt (g)	Review Analyst	Review Date
BLANK		1000	3/21/2025 11:02	0.08418	0.13840	0.05422	ASN4036	03/24/25 14:41:17
LCS		1000	3/21/2025 11:02	0.08298	0.13757	0.05459	ASN4036	03/24/25 14:41:17
MS(L1836373-04)		250	3/21/2025 11:02	0.08317	0.13404	0.05087	ASN4036	03/24/25 14:41:17
MSD(L1836373-04)		250	3/21/2025 11:02	0.08313	0.13779	0.05466	ASN4036	03/24/25 14:41:17
DUP(L1835200-02)		250	3/21/2025 11:02	0.08269	0.13363	0.05094	ASN4036	03/24/25 14:41:17
1. L1835200-01	03/11/25 12:40	500	3/21/2025 11:02	0.08304	0.12973	0.04669	ASN4036	03/24/25 14:41:17
2. L1835200-02	03/11/25 15:45	500	3/21/2025 11:02	0.08421	0.12932	0.04511	ASN4036	03/24/25 14:41:17
3. L1835200-03	03/11/25 17:34	500	3/21/2025 11:02	0.08419	0.13281	0.04862	ASN4036	03/24/25 14:41:17
4. L1835679-01	03/06/25 08:10	500	3/21/2025 11:02	0.08433	0.14158	0.05725	ASN4036	03/24/25 14:41:17
5. L1835680-01	03/06/25 09:20	500	3/21/2025 11:02	0.08421	0.13976	0.05555	ASN4036	03/24/25 14:41:17
6. L1835703-01	03/12/25 08:20	500	3/21/2025 11:02	0.08435	0.13509	0.05074	ASN4036	03/24/25 14:41:17
7. L1835703-02	03/12/25 09:35	500	3/21/2025 11:02	0.08427	0.13795	0.05368	ASN4036	03/24/25 14:41:17
8. L1835703-03	03/12/25 08:20	500	3/21/2025 11:02	0.08430	0.13209	0.04779	ASN4036	03/24/25 14:41:17
9. L1835703-04	03/12/25 09:30	500	3/21/2025 11:02	0.08448	0.13687	0.05239	ASN4036	03/24/25 14:41:17
10. L1836344-01	03/10/25 13:15	500	3/21/2025 11:02	0.08396	0.16303	0.07907	ASN4036	03/24/25 14:41:17
11. L1836346-01	03/10/25 13:35	500	3/21/2025 11:02	0.08424	0.14363	0.05939	ASN4036	03/24/25 14:41:17
12. L1836352-01	03/10/25 11:40	500	3/21/2025 11:02	0.08438	0.13542	0.05104	ASN4036	03/24/25 14:41:17
13. L1836373-01	03/06/25 08:20	500	3/21/2025 11:02	0.08417	0.13810	0.05393	ASN4036	03/24/25 14:41:17
14. L1836373-02	03/06/25 08:50	500	3/21/2025 11:02	0.08432	0.13632	0.052	ASN4036	03/24/25 14:41:17
15. L1836373-03	03/06/25 09:20	500	3/21/2025 11:02	0.08422	0.13519	0.05097	ASN4036	03/24/25 14:41:17
16. L1836373-04	03/06/25 11:05	500	3/21/2025 11:02	0.08415	0.13648	0.05233	ASN4036	03/24/25 14:41:17
17. L1837683-01	03/12/25 11:00	500	3/21/2025 11:02	0.08447	0.13533	0.05086	ASN4036	03/24/25 14:41:17
18. L1837683-02	03/12/25 11:00	500	3/21/2025 11:02	0.08437	0.13415	0.04978	ASN4036	03/24/25 14:41:17
19. L1837683-03	03/11/25 11:00	500	3/21/2025 11:02	0.08430	0.13492	0.05062	ASN4036	03/24/25 14:41:17
20. L1837683-04	03/12/25 11:00	500	3/21/2025 11:02	0.08429	0.13100	0.04671	ASN4036	03/24/25 14:41:17

Comments:Reviewed By:ASN4036 on 03/24/25 14:41:17

G5020 Run Log Ra-226 Waters by 903.0 WG2472385

Sample Order Verified by ASN4036

Sample ID	Det	Alpha	LT	Analyst	Start	End
RA_BKG	A	2	60	ASN4036	3/24/2025 9:43	3/24/2025 10:43
RA_BKG	B	7	60	ASN4036	3/24/2025 9:43	3/24/2025 10:43
RA_BKG	C	0	60	ASN4036	3/24/2025 9:43	3/24/2025 10:43
RA_BKG	D	4	60	ASN4036	3/24/2025 9:43	3/24/2025 10:43
21E226752	A	10299	10	ASN4036	3/24/2025 10:58	3/24/2025 11:08
21E226753	B	10098	10	ASN4036	3/24/2025 10:58	3/24/2025 11:08
21E226754	C	10299	10	ASN4036	3/24/2025 10:58	3/24/2025 11:08
21E226751	D	10495	10	ASN4036	3/24/2025 10:58	3/24/2025 11:08
BLANK WG2472385	B	8	60	ASN4036	3/24/2025 13:13	3/24/2025 14:13
LCS WG2472385	C	354	60	ASN4036	3/24/2025 13:13	3/24/2025 14:13
MS L1836373-04 WG2472385	D	337	60	ASN4036	3/24/2025 13:13	3/24/2025 14:13
MSD L1836373-04 WG2472385	A	357	60	ASN4036	3/24/2025 14:13	3/24/2025 15:13
DUP L1835200-02 WG2472385	B	6	60	ASN4036	3/24/2025 14:13	3/24/2025 15:13
L1835200-02 WG2472385	C	11	60	ASN4036	3/24/2025 14:13	3/24/2025 15:13
L1836373-04 WG2472385	D	32	60	ASN4036	3/24/2025 14:13	3/24/2025 15:13
L1837683-01 WG2472385	A	7	60	ASN4036	3/24/2025 15:14	3/24/2025 16:14
L1837683-02 WG2472385	B	4	60	ASN4036	3/24/2025 15:14	3/24/2025 16:14
L1837683-03 WG2472385	C	3	60	ASN4036	3/24/2025 15:14	3/24/2025 16:14
L1837683-04 WG2472385	D	3	60	ASN4036	3/24/2025 15:14	3/24/2025 16:14
RA_BKG	A	5	60	ASN4036	3/24/2025 16:14	3/24/2025 17:14
RA_BKG	B	5	60	ASN4036	3/24/2025 16:14	3/24/2025 17:14
RA_BKG	C	0	60	ASN4036	3/24/2025 16:14	3/24/2025 17:14
RA_BKG	D	3	60	ASN4036	3/24/2025 16:14	3/24/2025 17:14
21E226752	A	10262	10	ASN4036	3/24/2025 17:25	3/24/2025 17:35
21E226753	B	10000	10	ASN4036	3/24/2025 17:25	3/24/2025 17:35
21E226754	C	10327	10	ASN4036	3/24/2025 17:25	3/24/2025 17:35
21E226751	D	10575	10	ASN4036	3/24/2025 17:25	3/24/2025 17:35
L1835200-01 WG2472385	A	12	60	ASN4036	3/24/2025 17:36	3/24/2025 18:36
L1835200-03 WG2472385	B	10	60	ASN4036	3/24/2025 17:36	3/24/2025 18:36
L1835679-01 WG2472385	C	12	60	ASN4036	3/24/2025 17:36	3/24/2025 18:36
L1835680-01 WG2472385	D	9	60	ASN4036	3/24/2025 17:36	3/24/2025 18:36
L1835703-01 WG2472385	A	11	60	ASN4036	3/24/2025 18:36	3/24/2025 19:36
L1835703-02 WG2472385	B	17	60	ASN4036	3/24/2025 18:36	3/24/2025 19:36
L1835703-03 WG2472385	C	26	60	ASN4036	3/24/2025 18:36	3/24/2025 19:36
L1835703-04 WG2472385	D	56	60	ASN4036	3/24/2025 18:36	3/24/2025 19:36
L1836344-01 WG2472385	A	33	60	ASN4036	3/24/2025 19:37	3/24/2025 20:37
L1836346-01 WG2472385	B	27	60	ASN4036	3/24/2025 19:37	3/24/2025 20:37
L1836352-01 WG2472385	C	75	60	ASN4036	3/24/2025 19:37	3/24/2025 20:37
L1836373-01 WG2472385	D	31	60	ASN4036	3/24/2025 19:37	3/24/2025 20:37
L1836373-02 WG2472385	A	34	60	ASN4036	3/24/2025 20:37	3/24/2025 21:37
L1836373-03 WG2472385	B	42	60	ASN4036	3/24/2025 20:37	3/24/2025 21:37
RA_BKG	A	4	60	ASN4036	3/25/2025 3:39	3/25/2025 4:39
RA_BKG	B	3	60	ASN4036	3/25/2025 3:39	3/25/2025 4:39
RA_BKG	C	4	60	ASN4036	3/25/2025 3:39	3/25/2025 4:39
RA_BKG	D	6	60	ASN4036	3/25/2025 3:39	3/25/2025 4:39
21E226752	A	10408	10	ASN4036	3/25/2025 4:50	3/25/2025 5:00
21E226753	B	10285	10	ASN4036	3/25/2025 4:50	3/25/2025 5:00
21E226754	C	10371	10	ASN4036	3/25/2025 4:50	3/25/2025 5:00
21E226751	D	10497	10	ASN4036	3/25/2025 4:50	3/25/2025 5:00

G5020
Calibration 01/29

	High Voltage	Changed?	Chi Sq Passed?	Notes
Det A	1760	N	Y	
Det B	1760	N	Y	
Det C	1760	N	Y	
Det D	1760	N	Y	

Comments:

Det C and D brought back into service after maintenance 01/27/25

Collected by: _____ Date: ~~1/29/25~~ 1/29/25 1/29/2025

Approved by: _____ Date: 1/29/25

Detector Names G5020

Numerical:	Instrument:
1	1A
2	1B
3	1C
4	1D
5	2A
6	2B
7	2C
8	2D
9	3A
10	3B
11	3C
12	3D
13	4A
14	4B
15	4C
16	4D

Standards Used:
92SR4702137
92SR4702139
92SR4702136

High Voltage Plateau and Slope Calculation G5020

1/29/2025

Det1= 1A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	3070	3068	2	
1520	3472	3468	4	
1540	4012	4010	2	
1560	4349	4347	2	
1580	4885	4882	3	
1600	5124	5123	1	
1620	5531	5523	8	
1640	5737	5731	6	
1660	5781	5772	9	
1680	5821	5817	4	
1700	5992	5989	3	
1720	5891	5888	3	
1740	6067	6056	11	0.18%
1760	6162	6134	28	0.46%
1780	5962	5894	68	1.15%
1800	6214	6077	137	2.25%
1820	6044	5880	164	
1840	6196	6038	158	
1860	6106	5961	145	
1880	6198	6053	144	
1900	6297	6116	181	
1920	6108	5931	177	
1940	6258	6099	159	
1960	6264	6084	180	
1980	6058	5861	197	
2000	6067	5914	153	

Slope Calc:			
1740	1.47%	88	
1760	0.13%	8	
1780	0.30%	18	
1800	2.88%	173	

Det2= 1B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2152	2150	2	
1520	2596	2595	1	
1540	3027	3025	2	
1560	3491	3490	1	
1580	3954	3948	6	
1600	4332	4328	4	
1620	4639	4635	4	
1640	4959	4952	7	
1660	5304	5296	8	
1680	5541	5534	7	
1700	5387	5378	9	
1720	5397	5389	8	
1740	5665	5655	10	0.18%
1760	5614	5589	25	0.45%
1780	5723	5656	67	1.18%
1800	5874	5750	124	2.16%
1820	5814	5653	161	
1840	5826	5652	174	
1860	5704	5555	149	
1880	5745	5586	159	
1900	5813	5683	130	
1920	5793	5649	144	
1940	5771	5624	147	
1960	5709	5528	181	
1980	5801	5667	134	
2000	5827	5672	155	

1740	6.68%	372	
1760	4.70%	264	
1780	0.05%	3	
1800	0.60%	34	

Det3= 1C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2474	2471	3	
1520	2879	2876	3	
1540	3308	3307	1	
1560	3791	3789	2	
1580	4308	4302	6	
1600	4507	4501	6	
1620	4824	4814	10	
1640	5167	5160	7	
1660	5226	5221	5	
1680	5357	5350	7	
1700	5456	5451	5	
1720	5528	5524	4	
1740	5671	5658	13	0.23%
1760	5536	5501	35	0.64%
1780	5663	5597	66	1.18%
1800	5755	5608	147	2.62%
1820	5810	5633	177	
1840	5775	5609	166	
1860	5643	5458	185	
1880	5681	5507	174	
1900	5715	5523	192	
1920	5739	5540	199	
1940	5686	5507	179	
1960	5793	5626	167	
1980	5670	5500	170	
2000	5719	5522	197	

1740	2.83%	157	
1760	1.95%	109	
1780	0.87%	49	
1800	0.77%	43	

Det4= 1D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2322	2320	2	
1520	2689	2686	3	
1540	3201	3201	0	
1560	3550	3550	0	
1580	4161	4154	7	
1600	4386	4384	2	
1620	4707	4704	3	
1640	5047	5043	4	
1660	5368	5360	8	
1680	5379	5374	5	
1700	5530	5525	5	
1720	5696	5688	8	
1740	5762	5746	16	0.28%
1760	5639	5626	13	0.23%
1780	5820	5761	59	1.02%
1800	5751	5581	170	3.05%
1820	5750	5573	177	
1840	5798	5622	176	
1860	5980	5801	179	
1880	5890	5707	183	
1900	5879	5708	171	
1920	5824	5644	180	
1940	5849	5674	175	
1960	5841	5663	178	
1980	5710	5527	182	
2000	5792	5628	164	

1740	0.99%	56	
1760	2.03%	115	
1780	2.19%	124	
1800	3.09%	175	

DECAY CALCUALTION

Sr-90/Y90
No. 92SR470-2137

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 11-May-92
DATE OF CALIBRATION 29-Jan-25

			uncert	
Ao =	23800	dpm	1190	dpm
N =	0.02		0.02	
T(1/2) =	28.60	years	28.60	years
T =	32.74	years	32.74	years
dilution =	1.00		1.00	
A =	10765.11	dpm	538.26	dpm

CPM Acceptance Range

2368.3	118.42	
2131.5	**2013**	**Low**
2605.2	**2724**	**High**

Approval: _____ Date:_____

DECAY CALCUALTION

Sr-90/Y90
No. 92SR470-2139

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 03-Jun-92
DATE OF CALIBRATION 29-Jan-25

			uncert	
Ao =	20700	dpm	1040	dpm
N =	0.02		0.02	
T(1/2) =	28.60	years	28.60	years
T =	32.68	years	32.68	years
dilution =	1.00		1.00	
A =	9377.24	dpm	471.13	dpm

CPM Acceptance Range

2063	103.65	
1856.7	**1753**	**Low**
2269.3	**2373**	**High**

DECAY CALCUALTION

Sr-90/Y90
No. 92SR470-2136

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 11-May-92
DATE OF CALIBRATION 29-Jan-25

			uncert	
Ao =	16100	dpm	805	dpm
N =	0.02		0.02	
T(1/2) =	28.60	years	28.60	years
T =	32.74	years	32.74	years
dilution =	1.00		1.00	
A =	7282.28	dpm	364.11	dpm

CPM Acceptance Range

1602.1	80.105
1441.9	**1362 Low**
1762.3	**1842 High**

Approval: _____ Date:_____

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:05
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	3070	3068	2
1520	3472	3468	4
1540	4012	4010	2
1560	4349	4347	2
1580	4885	4882	3
1600	5124	5123	1
1620	5531	5523	8
1640	5737	5731	6
1660	5781	5772	9
1680	5821	5817	4
1700	5992	5989	3
1720	5891	5888	3
1740	6067	6056	11
1760	6162	6134	28
1780	5962	5894	68
1800	6214	6077	137
1820	6044	5880	164
1840	6196	6038	158
1860	6106	5961	145
1880	6198	6053	144
1900	6297	6116	181
1920	6108	5931	177
1940	6258	6099	159
1960	6264	6084	180
1980	6058	5861	197

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Test Date: 01/29/2025 10:05
System Serial #: 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 92SR4702137
Isotope Name: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	6067	5914	153

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

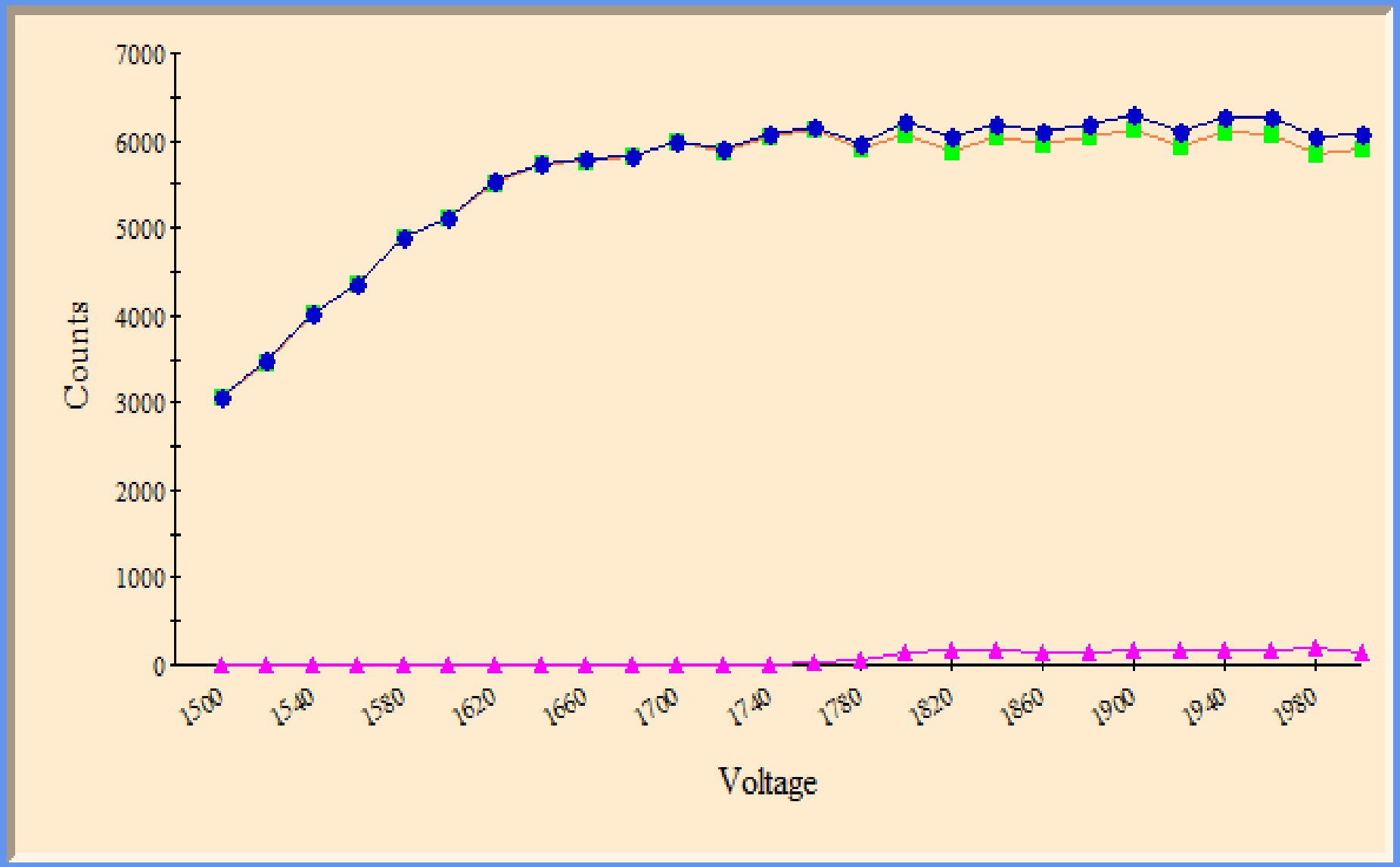
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

PDF created with pdfFactory trial version www.pdffactory.com

High Voltage Plateau Plot



Source Certificate - 92SR4702137 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 01/29/2025 10:05:00 AM Detector - A

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:45
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** B **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2152	2150	2
1520	2596	2595	1
1540	3027	3025	2
1560	3491	3490	1
1580	3954	3948	6
1600	4332	4328	4
1620	4639	4635	4
1640	4959	4952	7
1660	5304	5296	8
1680	5541	5534	7
1700	5387	5378	9
1720	5397	5389	8
1740	5665	5655	10
1760	5614	5589	25
1780	5723	5656	67
1800	5874	5750	124
1820	5814	5653	161
1840	5826	5652	174
1860	5704	5555	149
1880	5745	5586	159
1900	5813	5683	130
1920	5793	5649	144
1940	5771	5624	147
1960	5709	5528	181
1980	5801	5667	134

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:45
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** B **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	5827	5672	155

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

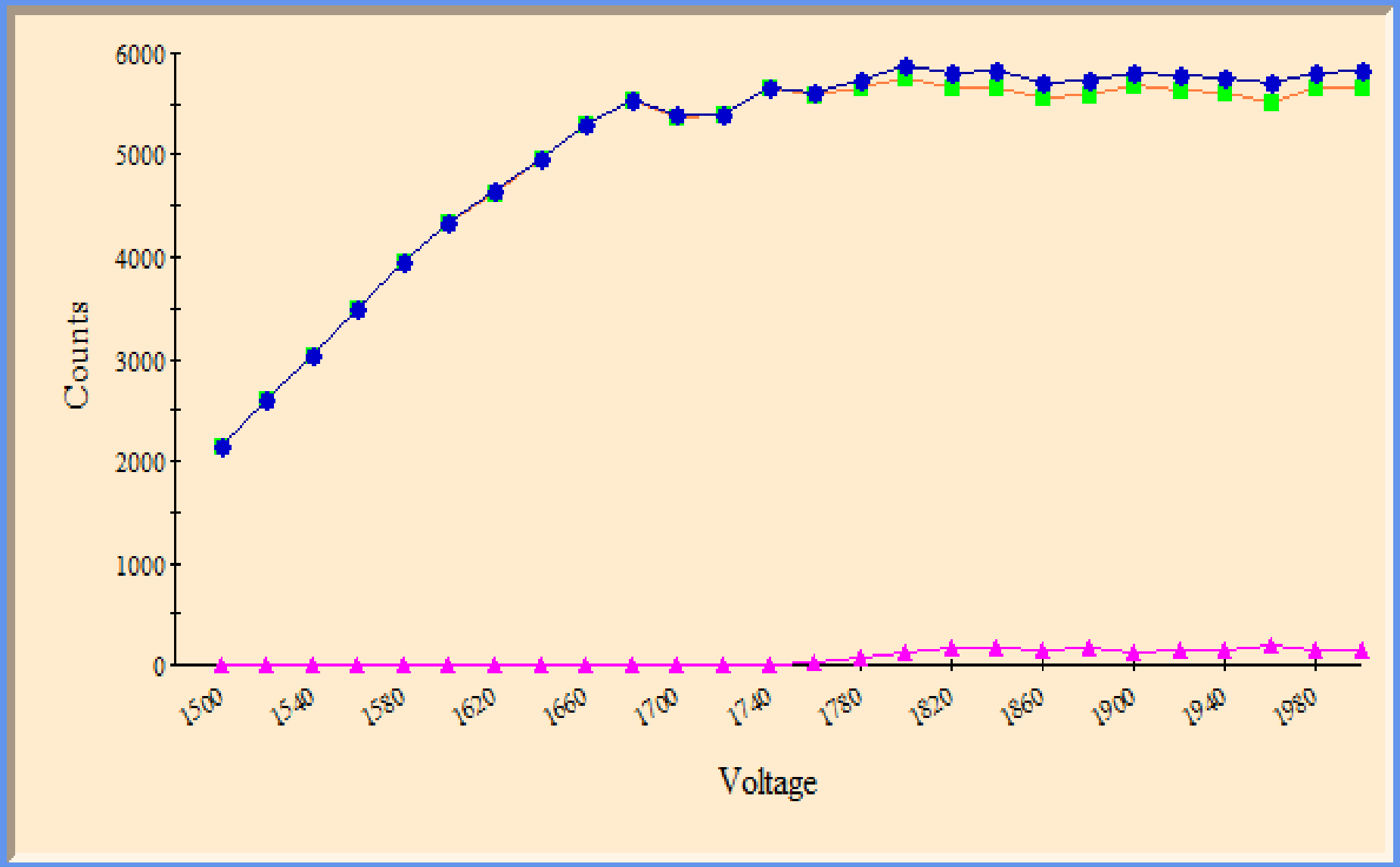
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

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High Voltage Plateau Plot



Source Certificate - 92SR4702137 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 01/29/2025 10:45:09 AM Detector - B

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 11:24
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2474	2471	3
1520	2879	2876	3
1540	3308	3307	1
1560	3791	3789	2
1580	4308	4302	6
1600	4507	4501	6
1620	4824	4814	10
1640	5167	5160	7
1660	5226	5221	5
1680	5357	5350	7
1700	5456	5451	5
1720	5528	5524	4
1740	5671	5658	13
1760	5536	5501	35
1780	5663	5597	66
1800	5755	5608	147
1820	5810	5633	177
1840	5775	5609	166
1860	5643	5458	185
1880	5681	5507	174
1900	5715	5523	192
1920	5739	5540	199
1940	5686	5507	179
1960	5793	5626	167
1980	5670	5500	170

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 11:24
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	5719	5522	197

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

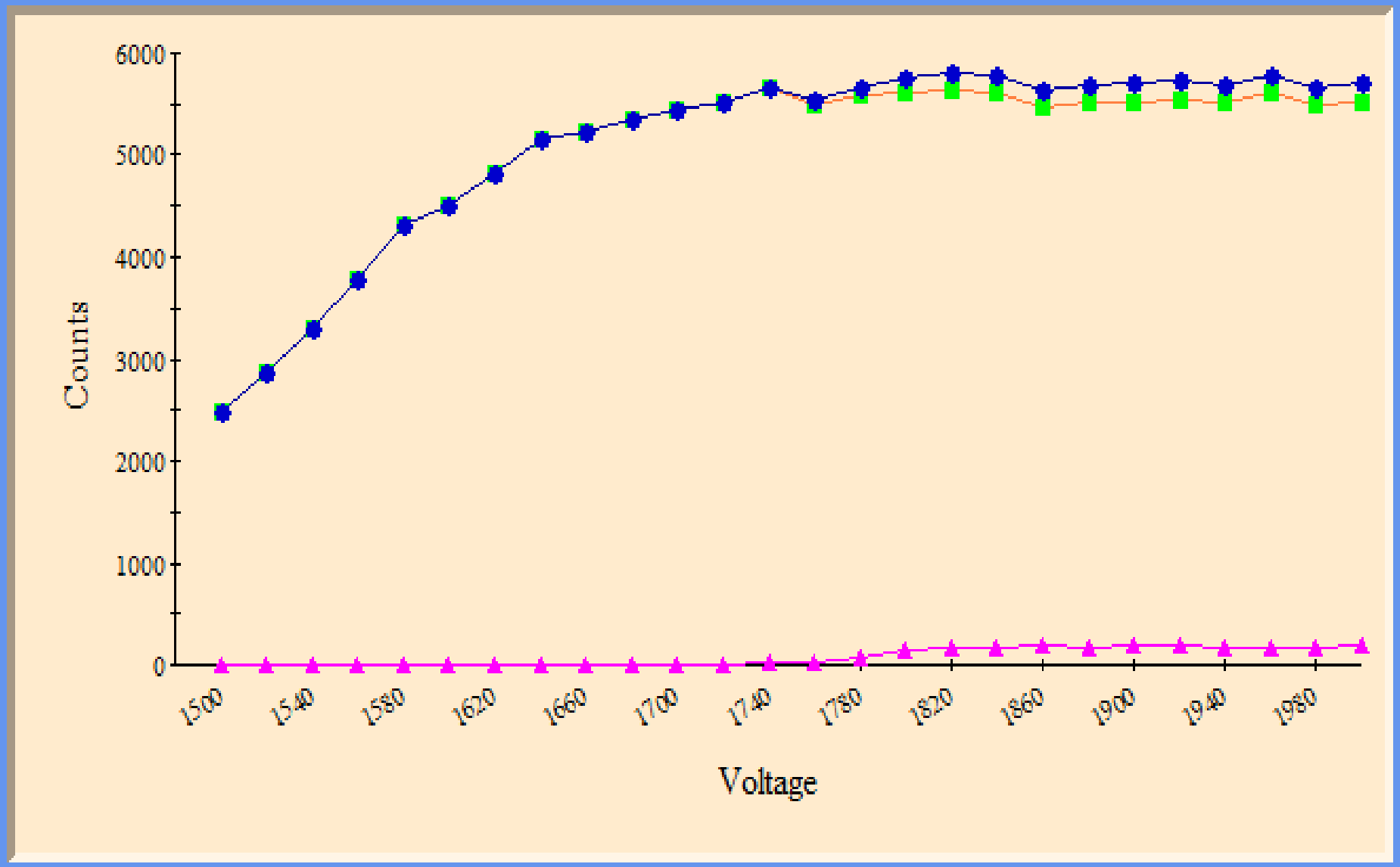
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

PDF created with pdfFactory trial version www.pdffactory.com

High Voltage Plateau Plot



Source Certificate - 92SR4702137 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 01/29/2025 11:24:24 AM Detector - C

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 11:55
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** D **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2322	2320	2
1520	2689	2686	3
1540	3201	3201	0
1560	3550	3550	0
1580	4161	4154	7
1600	4386	4384	2
1620	4707	4704	3
1640	5047	5043	4
1660	5368	5360	8
1680	5379	5374	5
1700	5530	5525	5
1720	5696	5688	8
1740	5762	5746	16
1760	5639	5626	13
1780	5820	5761	59
1800	5751	5581	170
1820	5750	5573	177
1840	5798	5622	176
1860	5980	5801	179
1880	5890	5707	183
1900	5879	5708	171
1920	5824	5644	180
1940	5849	5674	175
1960	5841	5663	178
1980	5710	5527	182

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 11:55
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** D **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	5792	5628	164

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

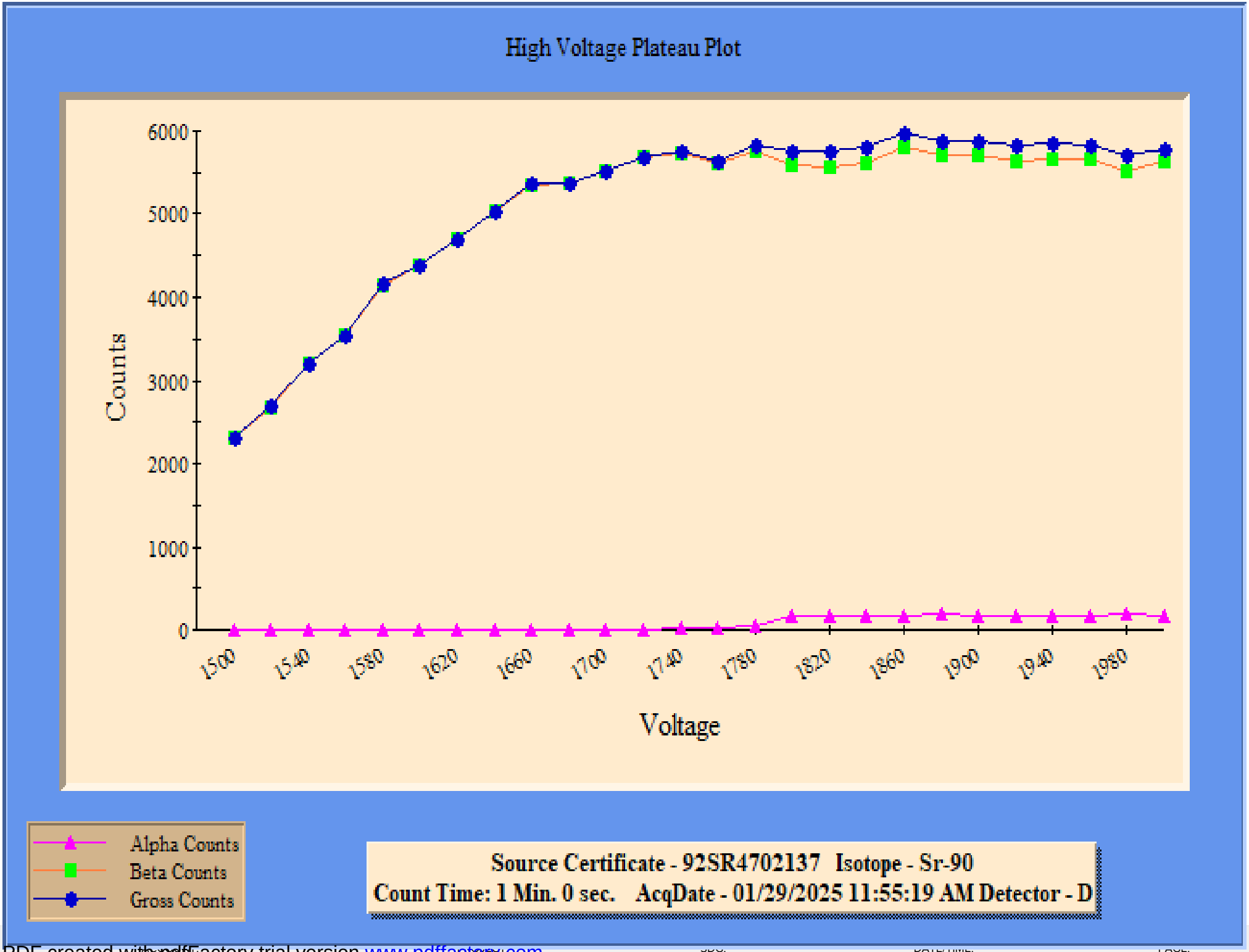
Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

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Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 15:11
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702139
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	4890	40
2	5083	29
3	4955	24
4	4983	30
5	4922	22
6	4971	16
7	5075	22
8	4929	25
9	5005	22
10	4941	21
11	5057	27
12	4961	28
13	4985	23
14	5016	26
15	5122	25
16	5053	28
17	5015	14
18	4930	15
19	4916	14
20	4957	22

(Xbar) Mean:	4988.30	23.65
Calculated Chi-Sqr Value:	15.36	30.97

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** B
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 13:20
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702136
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	3680	15
2	3908	19
3	3816	14
4	3810	12
5	3728	15
6	3912	13
7	3780	14
8	3793	10
9	3762	13
10	3769	19
11	3793	22
12	3752	16
13	3848	15
14	3707	21
15	3807	15
16	3710	11
17	3688	17
18	3721	12
19	3829	12
20	3776	15

(Xbar) Mean:	3779.45	15.00
Calculated Chi-Sqr Value:	21.22	13.33

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** C
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 13:57
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702136
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	3602	25
2	3704	22
3	3654	21
4	3720	25
5	3720	15
6	3691	14
7	3751	19
8	3773	15
9	3706	7
10	3718	16
11	3726	23
12	3675	21
13	3740	18
14	3795	18
15	3767	19
16	3729	17
17	3688	18
18	3644	22
19	3722	23
20	3782	17

(Xbar) Mean:	3715.35	18.75
Calculated Chi-Sqr Value:	11.83	18.65

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** D
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 14:21
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702136
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	3765	23
2	3785	24
3	3785	12
4	3842	14
5	3836	25
6	3881	9
7	3733	21
8	3783	21
9	3746	18
10	3854	19
11	3849	12
12	3699	15
13	3796	16
14	3742	14
15	3793	21
16	3745	16
17	3716	14
18	3756	15
19	3675	32
20	3762	22

(Xbar) Mean:	3777.15	18.15
Calculated Chi-Sqr Value:	14.98	31.77

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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RADIUM-226

SDG: WG2470961
METHOD: EPA 903.0/9315
ANALYST: ASN4036

	Ra226	2σCE	TPU	SDWA DL	Lc	mda	Units	date prep	date analysis	Analyst	
BACKGROUND DET A	0.000	0.202		0.233	0.170	0.448	pCi/l	3/19/2025	3/25/2025	ASN4036	
BACKGROUND DET B	0.000	0.144		0.197	0.122	0.353	pCi/l	3/19/2025	3/25/2025	ASN4036	
BACKGROUND DET C	0.000	0.203		0.234	0.171	0.451	pCi/l	3/19/2025	3/25/2025	ASN4036	
BACKGROUND DET D	0.000	0.175		0.216	0.148	0.404	pCi/l	3/19/2025	3/25/2025	ASN4036	
RA-0070-WS-903-1	563.85	10.957		0.245	0.106	0.377	pCi/l	3/19/2025	3/25/2025	ASN4036	**97.1%**
RA-0070-WS-903-2	554.46	10.847		0.228	0.074	0.314	pCi/l	3/19/2025	3/25/2025	ASN4036	**95.5%**
RA-0070-WS-903-3	572.00	10.993		0.238	0.105	0.374	pCi/l	3/19/2025	3/25/2025	ASN4036	**98.5%**
RA-0070-WS-903-4	583.89	11.166		0.239	0.092	0.350	pCi/l	3/19/2025	3/25/2025	ASN4036	**100.5%**
[redacted]								3/19/2025	[redacted]	ASN4036	
BLANK WG2470961	0.046	0.144	0.280	0.148	0.108	0.285	pCi/l	3/19/2025	3/25/2025	ASN4036	
LCS WG2470961	5.218	0.691	0.828	0.125	0.077	0.224	pCi/l	3/19/2025	3/25/2025	ASN4036	
MS L1834569-04 WG2470961	19.610	2.709	2.847	0.600	0.438	1.155	pCi/l	3/19/2025	3/25/2025	ASN4036	
MSD L1834569-04 WG2470961	19.945	2.729	2.867	0.559	0.382	1.045	pCi/l	3/19/2025	3/25/2025	ASN4036	
DUP L1835200-02 WG2470961	0.000	0.536	0.677	0.618	0.451	1.190	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-01 WG2470961	0.379	0.321	0.460	0.254	0.156	0.453	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-02 WG2470961	0.333	0.361	0.500	0.304	0.222	0.585	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-03 WG2470961	0.048	0.249	0.389	0.284	0.194	0.531	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-04 WG2470961	-0.095	0.228	0.368	0.304	0.222	0.585	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-09 WG2470961	0.097	0.233	0.375	0.260	0.160	0.465	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-11 WG2470961	0.094	0.293	0.432	0.302	0.220	0.581	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1834569-13 WG2470961	1.279	0.522	0.659	0.270	0.185	0.505	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835110-01 WG2470961	1.119	0.504	0.641	0.286	0.209	0.551	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835110-05 WG2470961	2.421	0.676	0.814	0.245	0.151	0.438	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835110-07 WG2470961	0.676	0.424	0.561	0.288	0.210	0.554	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835110-09 WG2470961	2.612	0.706	0.843	0.266	0.182	0.498	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835187-02 WG2470961	0.000	0.252	0.391	0.291	0.212	0.560	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835187-04 WG2470961	0.139	0.239	0.379	0.248	0.152	0.442	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835187-07 WG2470961	0.096	0.299	0.442	0.308	0.225	0.594	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835200-01 WG2470961	0.097	0.269	0.412	0.286	0.196	0.536	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835200-02 WG2470961	0.226	0.319	0.458	0.289	0.211	0.556	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835703-01 WG2470961	0.415	0.352	0.502	0.278	0.171	0.497	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835703-02 WG2470961	0.223	0.316	0.454	0.286	0.209	0.550	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835703-03 WG2470961	0.571	0.375	0.512	0.260	0.178	0.486	pCi/l	3/19/2025	3/25/2025	ASN4036	
L1835703-04 WG2470961	1.430	0.544	0.680	0.277	0.202	0.533	pCi/l	3/19/2025	3/25/2025	ASN4036	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#####	pCi/l	3/19/2025	1/0/1900	ASN4036	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#####	pCi/l	3/19/2025	1/0/1900	ASN4036	
RA-0070-WS-903-1	575.929	11.074	11.211	0.245	0.106	0.377	pCi/l	3/19/2025	3/26/2025	ASN4036	**99.2%**
RA-0070-WS-903-2	553.465	10.837	10.974	0.229	0.074	0.314	pCi/l	3/19/2025	3/26/2025	ASN4036	**95.3%**
RA-0070-WS-903-3	576.507	11.036	11.173	0.243	0.105	0.374	pCi/l	3/19/2025	3/26/2025	ASN4036	**99.3%**
RA-0070-WS-903-4	575.835	11.089		0.239	0.092	0.350	pCi/l	3/19/2025	3/26/2025	ASN4036	**99.2%**
BACKGROUND DET A	-0.109	0.160		0.000	0.170	0.448	pCi/l	3/19/2025	3/26/2025	ASN4036	
BACKGROUND DET B	0.000	0.144		0.000	0.122	0.353	pCi/l	3/19/2025	3/26/2025	ASN4036	
BACKGROUND DET C	-0.073	0.176		0.000	0.171	0.451	pCi/l	3/19/2025	3/26/2025	ASN4036	
BACKGROUND DET D	-0.037	0.160		0.000	0.148	0.404	pCi/l	3/19/2025	3/26/2025	ASN4036	

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Radium EPA 903.0/9315
SDG: WG2470961
METHOD: EPA 903.0/9315
ANALYST: ASN4036
Prep Date: 03/19/25

Detector	EFF	BKG COUNTS	COUNT TIME	BKG CPM
Detector A	20.6%	4	60	0.067
Detector B	20.4%	2	60	0.033
Detector C	20.5%	4	60	0.067
Detector D	20.5%	3	60	0.050

If Background is 0 use 1.

Ba Carrier ID: 25C14200
Standardization Date 3/17/2025 8:25

planchet tare	planchet gross	net weight
0.08280	0.13658	0.05378
0.08291	0.13688	0.05397
0.08295	0.13678	0.05383
	ave =	**0.05386**

id	sample size	alpha counts	count time	ppt time	time count end		igf	Detector #	CPM back	Bkg Counts	eff	planchet tare (g)	planchet gross (g)	net weight(g)	ba rec	Ba Rec use	
BACKGROUND DET A	1.000	4	60	3/25/25 12:11	3/25/25 12:11	0	1.000	A	0.067	4.0	20.6%			0.00000	100.0%	100.0%	BACKGROUND DET A
BACKGROUND DET B	1.000	2	60	3/25/25 12:11	3/25/25 12:11	0	1.000	B	0.033	2.0	20.4%			0.00000	100.0%	100.0%	BACKGROUND DET B
BACKGROUND DET C	1.000	4	60	3/25/25 12:11	3/25/25 12:11	0	1.000	C	0.067	4.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET C
BACKGROUND DET D	1.000	3	60	3/25/25 12:11	3/25/25 12:11	0	1.000	D	0.050	3.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET D
RA-0070-WS-903-1	1.000	10175	10	4/6/21 14:15	3/25/25 12:46	34775	4.000	A	0.067	0.7	20.6%			0.00000	98.6%	98.6%	RA-0070-WS-903-1
RA-0070-WS-903-2	1.000	10039	10	4/6/21 14:15	3/25/25 12:46	34775	4.000	B	0.033	0.3	20.4%			0.00000	100.6%	100.0%	RA-0070-WS-903-2
RA-0070-WS-903-3	1.000	10403	10	4/6/21 14:15	3/25/25 12:46	34775	4.000	C	0.067	0.7	20.5%			0.00000	102.2%	100.0%	RA-0070-WS-903-3
RA-0070-WS-903-4	1.000	10506	10	4/6/21 14:15	3/25/25 12:46	34775	4.000	D	0.050	0.5	20.5%			0.00000	98.6%	98.6%	RA-0070-WS-903-4
						0	1.000								0.0%		
BLANK WG2470961	1.000	6	60	3/24/25 10:21	3/25/25 14:27	28	1.574	A	0.067	4.0	20.6%	0.08483	0.13934	0.05451	101.2%	100.0%	BLANK WG2470961
LCS WG2470961	1.000	225	60	3/24/25 10:21	3/25/25 14:27	28	1.574	B	0.033	2.0	20.4%	0.0846	0.13898	0.05438	101.0%	100.0%	LCS WG2470961
MS L1834569-04 WG2470961	0.250	213	60	3/24/25 10:21	3/25/25 14:27	28	1.574	C	0.067	4.0	20.5%	0.08452	0.13801	0.05349	99.3%	99.3%	MS L1834569-04 WG2470961
MSD L1834569-04 WG2470961	0.250	214	60	3/24/25 10:21	3/25/25 14:27	28	1.574	D	0.050	3.0	20.5%	0.08466	0.13759	0.05293	98.3%	98.3%	MSD L1834569-04 WG2470961
DUP L1835200-02 WG2470961	0.250	4	60	3/24/25 10:21	3/25/25 15:27	29	1.592	A	0.067	4.0	20.6%	0.08459	0.1356	0.05101	94.7%	94.7%	DUP L1835200-02 WG2470961
L1834569-01 WG2470961	0.500	10	60	3/24/25 10:21	3/25/25 15:27	29	1.592	B	0.033	2.0	20.4%	0.08435	0.137	0.05265	97.8%	97.8%	L1834569-01 WG2470961
L1834569-02 WG2470961	0.500	11	60	3/24/25 10:21	3/25/25 15:27	29	1.592	C	0.067	4.0	20.5%	0.08433	0.13653	0.05220	96.9%	96.9%	L1834569-02 WG2470961
L1834569-03 WG2470961	0.500	4	60	3/24/25 10:21	3/25/25 15:27	29	1.592	D	0.050	3.0	20.5%	0.08444	0.13595	0.05151	95.6%	95.6%	L1834569-03 WG2470961
L1834569-04 WG2470961	0.500	2	60	3/24/25 10:21	3/25/25 16:27	30	1.610	A	0.067	4.0	20.6%	0.08465	0.13594	0.05129	95.2%	95.2%	L1834569-04 WG2470961
L1834569-09 WG2470961	0.500	4	60	3/24/25 10:21	3/25/25 16:27	30	1.610	B	0.033	2.0	20.4%	0.08461	0.13531	0.05070	94.1%	94.1%	L1834569-09 WG2470961
L1834569-11 WG2470961	0.500	6	60	3/24/25 10:21	3/25/25 16:27	30	1.610	C	0.067	4.0	20.5%	0.08464	0.1366	0.05196	96.5%	96.5%	L1834569-11 WG2470961
L1834569-13 WG2470961	0.500	31	60	3/24/25 10:21	3/25/25 16:27	30	1.610	D	0.050	3.0	20.5%	0.08463	0.13817	0.05354	99.4%	99.4%	L1834569-13 WG2470961
L1835110-01 WG2470961	0.500	29	60	3/24/25 10:21	3/25/25 17:28	31	1.628	A	0.067	4.0	20.6%	0.08448	0.13914	0.05466	101.5%	100.0%	L1835110-01 WG2470961
L1835110-05 WG2470961	0.500	55	60	3/24/25 10:21	3/25/25 17:28	31	1.628	B	0.033	2.0	20.4%	0.08437	0.13769	0.05332	99.0%	99.0%	L1835110-05 WG2470961
L1835110-07 WG2470961	0.500	19	60	3/24/25 10:21	3/25/25 17:28	31	1.628	C	0.067	4.0	20.5%	0.0846	0.13843	0.05383	99.9%	99.9%	L1835110-07 WG2470961
L1835110-09 WG2470961	0.500	61	60	3/24/25 10:21	3/25/25 17:28	31	1.628	D	0.050	3.0	20.5%	0.08435	0.13804	0.05369	99.7%	99.7%	L1835110-09 WG2470961
L1835187-02 WG2470961	0.500	4	60	3/24/25 10:21	3/25/25 18:28	32	1.646	A	0.067	4.0	20.6%	0.08439	0.13678	0.05239	97.3%	97.3%	L1835187-02 WG2470961
L1835187-04 WG2470961	0.500	5	60	3/24/25 10:21	3/25/25 18:28	32	1.646	B	0.033	2.0	20.4%	0.08457	0.13675	0.05218	96.9%	96.9%	L1835187-04 WG2470961
L1835187-07 WG2470961	0.500	6	60	3/24/25 10:21	3/25/25 18:28	32	1.646	C	0.067	4.0	20.5%	0.08472	0.13444	0.04972	92.3%	92.3%	L1835187-07 WG2470961
L1835200-01 WG2470961	0.500	5	60	3/24/25 10:21	3/25/25 18:28	32	1.646	D	0.050	3.0	20.5%	0.08452	0.13388	0.04936	91.6%	91.6%	L1835200-01 WG2470961
L1835200-02 WG2470961	0.500	9	60	3/24/25 10:21	3/25/25 19:28	33	1.664	A	0.067	4.0	20.6%	0.08425	0.13644	0.05219	96.9%	96.9%	L1835200-02 WG2470961
L1835703-01 WG2470961	0.500	10	60	3/24/25 10:21	3/25/25 19:28	33	1.664	B	0.033	2.0	20.4%	0.08424	0.13019	0.04595	85.3%	85.3%	L1835703-01 WG2470961
L1835703-02 WG2470961	0.500	9	60	3/24/25 10:21	3/25/25 19:28	33	1.664	C	0.067	4.0	20.5%	0.0846	0.13772	0.05312	98.6%	98.6%	L1835703-02 WG2470961
L1835703-03 WG2470961	0.500	16	60	3/24/2025 10:21	03/25/2025 19:28	33	1.664	D	0.050	3.0	20.5%	0.08451	0.13838	0.05387	100.0%	100.0%	L1835703-03 WG2470961
L1835703-04 WG2470961	0.500	37	60	3/24/2025 10:21	03/25/2025 20:28	34	1.682	A	0.067	4.0	20.6%	0.08414	0.13837	0.05423	100.7%	100.0%	L1835703-04 WG2470961
						0	1.000		FALSE	0.0	FALSE			0.00000	0.0%	0.0%	0
						0	1.000		FALSE	0.0	FALSE			0.00000	0.0%	0.0%	0
RA-0070-WS-903-1	1.000	10393	10	4/6/21 14:15	3/26/25 2:51	34789	4.000	A	0.067	0.7	20.6%			0.00000	98.6%	98.6%	RA-0070-WS-903-1
RA-0070-WS-903-2	1.000	10021	10	4/6/21 14:15	3/26/25 2:51	34789	4.000	B	0.033	0.3	20.4%			0.00000	100.6%	100.0%	RA-0070-WS-903-2
RA-0070-WS-903-3	1.000	10485	10	4/6/21 14:15	3/26/25 2:51	34789	4.000	C	0.067	0.7	20.5%			0.00000	102.2%	100.0%	RA-0070-WS-903-3
RA-0070-WS-903-4	1.000	10361	10	4/6/21 14:15	3/26/25 2:51	34789	4.000	D	0.050	0.5	20.5%			0.00000	98.6%	98.6%	RA-0070-WS-903-4
BACKGROUND DET A	1.000	1	60	3/26/25 2:30	3/26/25 2:30	0	1.000	A	0.067	4.0	20.6%			0.00000	100.0%	100.0%	BACKGROUND DET A
BACKGROUND DET B	1.000	2	60	3/26/25 2:30	3/26/25 2:30	0	1.000	B	0.033	2.0	20.4%			0.00000	100.0%	100.0%	BACKGROUND DET B
BACKGROUND DET C	1.000	2	60	3/26/25 2:30	3/26/25 2:30	0	1.000	C	0.067	4.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET C
BACKGROUND DET D	1.000	2	60	3/26/25 2:30	3/26/25 2:30	0	1.000	D	0.050	3.0	20.5%			0.00000	100.0%	100.0%	BACKGROUND DET D
																	0

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QC REPORT

ANALYTE: **Ra226**
METHOD: **EPA 903.0/9315**
SDG: **WG2470961**
UNITS: **pCi/L**
STD ID: **25B04944** Vol. **1** ml

	Ra226	2σCE	TPU	SDWA DL	Lc	mda	known	%REC	LIMITS LOW	LIMITS HIGH	RPD	LIMITS	RER	LIMITS
BLANK WG2470961	0.046	0.144	0.280	0.148	0.108	0.285								
LCS WG2470961	5.218	0.691	0.828	0.125	0.077	0.224	**5.00**	**104.3%**	80%	120%				
L1835200-02 WG2470961	0.226	0.319	0.458	0.289	0.211	0.556								
DUP L1835200-02 WG2470961	0.000	0.536	0.677	0.618	0.451	1.190					NC	20%	**0.362**	3
L1834569-04 WG2470961	-0.095	0.228	0.368	0.304	0.222	0.585								
MS L1834569-04 WG2470961	19.610	2.709	2.847	0.600	0.438	1.155	**20.0**	**98.5%**	75%	125%				
MSD L1834569-04 WG2470961	19.945	2.729	2.867	0.559	0.382	1.045	**20.0**	**100.2%**	75%	125%	1.69%			

*** - Outside Control Limits**

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DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Ra226 Source
No.3613
ml HCl 41.66667
25B04944

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 08-Apr-24
DATE OF CALIBRATION 19-Mar-25

Ao =	588.69	pCi/ml
N =	0.00	
T(1/2) =	1600.00	years
T =	0.95	years
Standard Volume	8.50	
Final Volume =	1000.00	
dilution =	117.65	

A =	588.453	pCi/ml
A =	11.104	dpm/ml
A =	5.00	pCi/ml

A = 5.00 pCi/ml

Uncertainty	3.70%
Weight	0.00%
Volume (1000 ml	0.03%
Volume (100 ml /	0.40%
Volume (1000 ml	0.03%
CSU	3.72%

Activity 5.00 +/- 0.186 pCi/ml

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R&D 1 x 5ML

Amersham International
Amersham Laboratories

B&I ff 3613
Recd 11-6-98

ESC37429

NAMAS
CALIBRATION
No. 0146

Certificate of calibration of radioactive reference solution

M 29913

Description	Principal radionuclide:	Radium-226	Product code: RAY.24
			Solution number: R4/131/127
Measurement	Reference time:	1200 GMT on 19 February 1998	
	Radioactive concentration of radium-226:	4.376	kilobecquerels per gram of solution
	which is equivalent to:	118.3	nanocuries per gram of solution
	Mass of solution:	5.0345	grams
	Total activity of radium-226:	22.03	kilobecquerels
	which is equivalent to:	595.4	nanocuries
	Recommended half life:	1600.00	years

Method of measurement:
The activity of the solution was measured in a high pressure re-entrant ionisation chamber calibrated with a large number of absolutely standardised solutions.

Accuracy: Overall uncertainty in the radioactive concentration quoted above: ± 3.7 %

Random uncertainty: ± 0.7 % Systematic uncertainty: ± 3.0 %

The limits of overall uncertainty were taken as the arithmetic sum of the uncertainty due to random variations, calculated at the 99.7% confidence level, and the estimated systematic uncertainties in the measurement.

Radionuclide Purity: The estimated activities of any radioactive impurities found by high-resolution gamma ray spectrometry, or in any other examination of the solution, are listed below expressed as percentages of the activity of the principal radionuclide at the reference time.

ENVIRONMENT & SCIENCE GROUP

Chemical Composition: Carrier free in 0.5M HCl

Remarks: At the reference date radium-226 was shown to be in radioactive equilibrium with its daughter nuclides down the decay chain to polonium-214 and thallium-210, the precursors of lead-210. The ionisation chamber was calibrated using a standard supplied by the National Institute of Standards and Technology, Washington DC, USA.

This product meets the quality assurance requirements of the NRC Regulatory Guide 4.15 for achieving implicit NIST traceability as defined in NCRP 58 (1985).

Approved Signatory

B D D Singleton

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APR 2 2001

Amersham
The Health Science Group

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Calibration Data EPA 903/9315

id	sample size	counts	time	ppt time	count time	Hours	igf	det	BKG	planchet tare	planchet gross	ba rec	eff		
RA-0070-WS-903-1	1	16166	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	A	0.083	7.85288	7.91579	98.6%	20.9%	0.06291	
RA-0070-WS-903-4	1	15891	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	A	0.083	7.85288	7.91579	98.6%	20.5%	0.06291	
RA-0070-WS-903-3	1	15850	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	A	0.083	7.86129	7.92648	102.2%	20.5%	0.06519	Avg
RA-0070-WS-903-2	1	15849	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	A	0.083	7.84269	7.90683	100.6%	20.5%	0.06414	
												100.0%	**20.6%**	0.06379	
RA-0070-WS-903-2	1	15429	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	B	0.017				19.9%		
RA-0070-WS-903-1	1	15805	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	B	0.017				20.4%		
RA-0070-WS-903-4	1	15893	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	B	0.017				20.5%		
RA-0070-WS-903-3	1	15960	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	B	0.017				20.6%		
													20.4%		
RA-0070-WS-903-3	1	16033	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	C	0.033				20.7%		
RA-0070-WS-903-2	1	15587	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	C	0.033				20.1%		
RA-0070-WS-903-1	1	15727	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	C	0.033				20.3%		
RA-0070-WS-903-4	1	16022	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	C	0.033				20.7%		
													20.5%		
RA-0070-WS-903-4	1	16034	15	4/6/21 14:15	1/30/25 10:32	33476.3	4.000	D	0.017				20.7%		
RA-0070-WS-903-3	1	15985	15	4/6/21 14:15	1/30/25 11:33	33477.3	4.000	D	0.017				20.7%		
RA-0070-WS-903-2	1	15668	15	4/6/21 14:15	1/30/25 12:28	33478.2	4.000	D	0.017				20.3%		
RA-0070-WS-903-1	1	15880	15	4/6/21 14:15	1/30/25 13:21	33479.1	4.000	D	0.017				20.5%		
													20.5%		

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DECAY CALCUALTION

Source: Ra-226
Lot No. R4/131/35
ID: **RA-0070-WS1**
19L06745

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 01-Nov-16
DATE OF CALIBRATION 30-Jan-25

Ao =	58.28	nCi
N =	0.00	
T(1/2) =	1600.00	years
T =	8.25	years
VOLUME OF STD	1.00	
FINAL VOL	100.00	
dilution =	100.00	

A =	58.07	nCi
A =	1289.22	dpm/ml
A =	**581**	pCi/ml

Uncertainty 3.70%

Volume 0.04%

CSU 3.70%

Activity 581 +/- 21 pCi/ml

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RAD 1x5mL

RH-0065-V5

Amersham International p
Amersham Laboratories

NAMAS
CALIBRATION
No. 0146

Certificate of calibration of radioactive reference solution

M 28796

ESC38625

Description	Principal radionuclide:	Radium-226	Product code: RAY.44
			Solution number: R4/131/35
Measurement	Reference time:		1200 GMT on 2 September 1996
	Radioactive concentration of radium-226:	43.80	kilobecquerels per gram of solution
	which is equivalent to:	1.184	microcuries per gram of solution
	Mass of solution:	5.0330	grams
	Total activity of radium-226:	220.5	kilobecquerels
	which is equivalent to:	5.959	microcuries
	Recommended half life:	1600	years

Method of measurement used:
The activity of the solution was measured in a high pressure re-entrant ionisation chamber calibrated with a large number of absolutely standardised solutions.

ENVIRONMENTAL CHEMISTRY GROUP

Accuracy: Overall uncertainty in the radioactive concentration quoted above: ± 3.7 %

Random uncertainty: ± 0.7 % Systematic uncertainty: ± 3.0 %

The limits of overall uncertainty were taken as the arithmetic sum of the uncertainty due to random variations, calculated at the 99.7% confidence level, and the estimated systematic uncertainties in the measurement.

Radionuclidic Purity: The estimated activities of any radioactive impurities found by high resolution gamma ray spectrometry, or in any other examination of the solution, are listed below expressed as percentages of the activity of the principal radionuclide at the reference time.

Chemical Composition: Carrier free in 0.5M HCl

Remarks: At the reference time radium-226 was shown to be in radioactive equilibrium with its daughter nuclides down the decay chain to polonium-214 and thallium-210, the precursors of lead-210. The ionisation chamber was calibrated using a standard supplied by the National Institute of Standards and Technology, Washington DC, USA.

This product meets the quality assurance requirements of the NRC Regulatory Guide 4.15 for achieving implicit NIST traceability as defined in NCRP 58 (1985).

Approved Signatory

W. F. Case

W F Case

Amersham
The Health Science Group

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View as PDF (CreatePDF?batchnum=WG2470961)

RA-226 903.0 Radiochemistry Prep Benchsheet

Batch: WG2470961

Analyst: ASN4036 Prep Start Date/Time: 03/19/25 13:21 Prep End Date/Time: 03/25/25 10:51 Method: EPA 903.0 SOP: ENV-SOP-MTJL-0353/0370 Pipet ID: E11,E22,E14 Bal ID: RADBAL6 Stirrer ID's: St38,St45,St46

Hot Plate ID: HP20,HP21 Centrifuge ID: C7 Centrifuge Tube Lot: 920142 Transfer Pipette Lot: 24180063 1mL e-Pipet Tip Log: 2243 2mL e-Pipet Tip Lot: 2418 10mL e-Pipet Tip Lot: 2332 10mL Manual Pipet Lot: P7601073

pH Lot: 10BDH3921 Filter Lot#: F4KB68830 Filter Lot#: na Oven ID: Ra-226 Oven

LCS/D Standard: 25B04944 Amt. Used: 1 mL Exp. Date:04/09/25 MS/D Standard: 25B04944 Amt. Used: 1 mL Exp. Date:04/09/25 16 mg/mL Barium Carrier: 25C14200 Amt. Used: 2 Exp. Date:05/31/25

Lead Nitrate Carrier: 24J25400 Amt. Used: 1 Exp. Date:10/25/25 Citric Acid: 25C17500 Amt. Used: 5 Exp. Date:09/30/25 1:1 H2SO4: 25C11576 Amt. Used: 20 Exp. Date:03/11/26 0.25M EDTA: 25C18611 Amt. Used: 15 Exp. Date:03/18/26

200 mg/mL Ammonium Sulfate: 24K06043 Amt. Used: 1 Exp. Date:11/06/25 Bromocresol Green: 24L05046 Amt. Used: 0.50 Exp. Date:12/05/25 Acetic Acid: 25A06030 Amt. Used: 3 Exp. Date:06/19/26

HNO3: 25C12757 Amt. Used: 20 Exp. Date:09/30/29 5N Ammonium Hydroxide: 25C12721 Amt. Used: 3 Exp. Date:03/12/26

Sample Number	Collect Date	Sample Volume (mL)	Precipitation Time	Tare Wt (g)	Gross Wt (g)	Final Wt (g)	Review Analyst	Review Date
BLANK		1000	03/24/2025 10:21	0.08483	0.13934	0.05451	ASN4036	03/26/25 08:48:05
LCS		1000	03/24/2025 10:21	0.08460	0.13898	0.05438	ASN4036	03/26/25 08:48:05
MS(L1834569-04)		250	03/24/2025 10:21	0.08452	0.13801	0.05349	ASN4036	03/26/25 08:48:05
MSD(L1834569-04)		250	03/24/2025 10:21	0.08466	0.13759	0.05293	ASN4036	03/26/25 08:48:05
DUP(L1835200-02)		250	03/24/2025 10:21	0.08459	0.13560	0.05101	ASN4036	03/26/25 08:48:05
1. L1834569-01	03/10/25 13:20	500	03/24/2025 10:21	0.08435	0.13700	0.05265	ASN4036	03/26/25 08:48:05
2. L1834569-02	03/10/25 09:45	500	03/24/2025 10:21	0.08433	0.13653	0.0522	ASN4036	03/26/25 08:48:05
3. L1834569-03	03/10/25 10:35	500	03/24/2025 10:21	0.08444	0.13595	0.05151	ASN4036	03/26/25 08:48:05
4. L1834569-04	03/10/25 11:55	500	03/24/2025 10:21	0.08465	0.13594	0.05129	ASN4036	03/26/25 08:48:05
5. L1834569-09	03/10/25 13:40	500	03/24/2025 10:21	0.08461	0.13531	0.0507	ASN4036	03/26/25 08:48:05
6. L1834569-11	03/10/25 10:45	500	03/24/2025 10:21	0.08464	0.13660	0.05196	ASN4036	03/26/25 08:48:05
7. L1834569-13	03/10/25 08:25	500	03/24/2025 10:21	0.08463	0.13817	0.05354	ASN4036	03/26/25 08:48:05
8. L1835110-01	03/11/25 11:15	500	03/24/2025 10:21	0.08448	0.13914	0.05466	ASN4036	03/26/25 08:48:05
9. L1835110-05	03/11/25 11:00	500	03/24/2025 10:21	0.08437	0.13769	0.05332	ASN4036	03/26/25 08:48:05
10. L1835110-07	03/11/25 12:25	500	03/24/2025 10:21	0.08460	0.13843	0.05383	ASN4036	03/26/25 08:48:05
11. L1835110-09	03/11/25 11:15	500	03/24/2025 10:21	0.08435	0.13804	0.05369	ASN4036	03/26/25 08:48:05
12. L1835187-02	03/11/25 12:40	500	03/24/2025 10:21	0.08439	0.13678	0.05239	ASN4036	03/26/25 08:48:05
13. L1835187-04	03/11/25 16:10	500	03/24/2025 10:21	0.08457	0.13675	0.05218	ASN4036	03/26/25 08:48:05
14. L1835187-07	03/11/25 17:34	500	03/24/2025 10:21	0.08472	0.13444	0.04972	ASN4036	03/26/25 08:48:05
15. L1835200-01	03/11/25 12:40	500	03/24/2025 10:21	0.08452	0.13388	0.04936	ASN4036	03/26/25 08:48:05
16. L1835200-02	03/11/25 15:45	500	03/24/2025 10:21	0.08425	0.13644	0.05219	ASN4036	03/26/25 08:48:05
17. L1835703-01	03/12/25 08:20	500	03/24/2025 10:21	0.08424	0.13019	0.04595	ASN4036	03/26/25 08:48:05
18. L1835703-02	03/12/25 09:35	500	03/24/2025 10:21	0.08460	0.13772	0.05312	ASN4036	03/26/25 08:48:05
19. L1835703-03	03/12/25 08:20	500	03/24/2025 10:21	0.08451	0.13838	0.05387	ASN4036	03/26/25 08:48:05
20. L1835703-04	03/12/25 09:30	500	03/24/2025 10:21	0.08414	0.13837	0.05423	ASN4036	03/26/25 08:48:05

Comments:Reviewed By:ASN4036 on 03/26/25 08:48:05

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G5020 Run Log Ra-226 Waters by 903.0 WG2470961

Sample Order Verified by ASN4036

Sample ID	Det	Alpha	LT	Analyst	Start	End
RA_BKG	A	4	60	ASN4036	3/25/2025 11:11	3/25/2025 12:11
RA_BKG	B	2	60	ASN4036	3/25/2025 11:11	3/25/2025 12:11
RA_BKG	C	4	60	ASN4036	3/25/2025 11:11	3/25/2025 12:11
RA_BKG	D	3	60	ASN4036	3/25/2025 11:11	3/25/2025 12:11
21E226752	A	10175	10	ASN4036	3/25/2025 12:36	3/25/2025 12:46
21E226753	B	10039	10	ASN4036	3/25/2025 12:36	3/25/2025 12:46
21E226754	C	10403	10	ASN4036	3/25/2025 12:36	3/25/2025 12:46
21E226751	D	10506	10	ASN4036	3/25/2025 12:36	3/25/2025 12:46
BLANK WG2470961	A	6	60	ASN4036	3/25/2025 13:27	3/25/2025 14:27
LCS WG2470961	B	225	60	ASN4036	3/25/2025 13:27	3/25/2025 14:27
MS L1834569-04 WG2470961	C	213	60	ASN4036	3/25/2025 13:27	3/25/2025 14:27
MSD L1834569-04 WG2470961	D	214	60	ASN4036	3/25/2025 13:27	3/25/2025 14:27
DUP L1835200-02 WG2470961	A	4	60	ASN4036	3/25/2025 14:27	3/25/2025 15:27
L1834569-01 WG2470961	B	10	60	ASN4036	3/25/2025 14:27	3/25/2025 15:27
L1834569-02 WG2470961	C	11	60	ASN4036	3/25/2025 14:27	3/25/2025 15:27
L1834569-03 WG2470961	D	4	60	ASN4036	3/25/2025 14:27	3/25/2025 15:27
L1834569-04 WG2470961	A	2	60	ASN4036	3/25/2025 15:27	3/25/2025 16:27
L1834569-09 WG2470961	B	4	60	ASN4036	3/25/2025 15:27	3/25/2025 16:27
L1834569-11 WG2470961	C	6	60	ASN4036	3/25/2025 15:27	3/25/2025 16:27
L1834569-13 WG2470961	D	31	60	ASN4036	3/25/2025 15:27	3/25/2025 16:27
L1835110-01 WG2470961	A	29	60	ASN4036	3/25/2025 16:28	3/25/2025 17:28
L1835110-05 WG2470961	B	55	60	ASN4036	3/25/2025 16:28	3/25/2025 17:28
L1835110-07 WG2470961	C	19	60	ASN4036	3/25/2025 16:28	3/25/2025 17:28
L1835110-09 WG2470961	D	61	60	ASN4036	3/25/2025 16:28	3/25/2025 17:28
L1835187-02 WG2470961	A	4	60	ASN4036	3/25/2025 17:28	3/25/2025 18:28
L1835187-04 WG2470961	B	5	60	ASN4036	3/25/2025 17:28	3/25/2025 18:28
L1835187-07 WG2470961	C	6	60	ASN4036	3/25/2025 17:28	3/25/2025 18:28
L1835200-01 WG2470961	D	5	60	ASN4036	3/25/2025 17:28	3/25/2025 18:28
L1835200-02 WG2470961	A	9	60	ASN4036	3/25/2025 18:28	3/25/2025 19:28
L1835703-01 WG2470961	B	10	60	ASN4036	3/25/2025 18:28	3/25/2025 19:28
L1835703-02 WG2470961	C	9	60	ASN4036	3/25/2025 18:28	3/25/2025 19:28
L1835703-03 WG2470961	D	16	60	ASN4036	3/25/2025 18:28	3/25/2025 19:28
L1835703-04 WG2470961	A	37	60	ASN4036	3/25/2025 19:28	3/25/2025 20:28
RA_BKG	A	1	60	ASN4036	3/26/2025 1:30	3/26/2025 2:30
RA_BKG	B	2	60	ASN4036	3/26/2025 1:30	3/26/2025 2:30
RA_BKG	C	2	60	ASN4036	3/26/2025 1:30	3/26/2025 2:30
RA_BKG	D	2	60	ASN4036	3/26/2025 1:30	3/26/2025 2:30
21E226752	A	10393	10	ASN4036	3/26/2025 2:41	3/26/2025 2:51
21E226753	B	10021	10	ASN4036	3/26/2025 2:41	3/26/2025 2:51
21E226754	C	10485	10	ASN4036	3/26/2025 2:41	3/26/2025 2:51
21E226751	D	10361	10	ASN4036	3/26/2025 2:41	3/26/2025 2:51

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G5020
Calibration 01/29

	High Voltage	Changed?	Chi Sq Passed?	Notes
Det A	1760	N	Y	
Det B	1760	N	Y	
Det C	1760	N	Y	
Det D	1760	N	Y	

Comments:

Det C and D brought back into service after maintenance 01/27/25

Collected by: _____ Date: ~~1/29/25~~ 1/29/25 1/29/2025

Approved by: _____ Date: 1/29/25

Detector Names G5020

Numerical:	Instrument:
1	1A
2	1B
3	1C
4	1D
5	2A
6	2B
7	2C
8	2D
9	3A
10	3B
11	3C
12	3D
13	4A
14	4B
15	4C
16	4D

Standards Used:
92SR4702137
92SR4702139
92SR4702136

High Voltage Plateau and Slope Calculation G5020

1/29/2025

Det1= 1A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	3070	3068	2	
1520	3472	3468	4	
1540	4012	4010	2	
1560	4349	4347	2	
1580	4885	4882	3	
1600	5124	5123	1	
1620	5531	5523	8	
1640	5737	5731	6	
1660	5781	5772	9	
1680	5821	5817	4	
1700	5992	5989	3	
1720	5891	5888	3	
1740	6067	6056	11	0.18%
1760	6162	6134	28	0.46%
1780	5962	5894	68	1.15%
1800	6214	6077	137	2.25%
1820	6044	5880	164	
1840	6196	6038	158	
1860	6106	5961	145	
1880	6198	6053	144	
1900	6297	6116	181	
1920	6108	5931	177	
1940	6258	6099	159	
1960	6264	6084	180	
1980	6058	5861	197	
2000	6067	5914	153	

	1740	1.47%	88
Slope Calc:	1760	0.13%	8
	1780	0.30%	18
	1800	2.88%	173

Det2= 1B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2152	2150	2	
1520	2596	2595	1	
1540	3027	3025	2	
1560	3491	3490	1	
1580	3954	3948	6	
1600	4332	4328	4	
1620	4639	4635	4	
1640	4959	4952	7	
1660	5304	5296	8	
1680	5541	5534	7	
1700	5387	5378	9	
1720	5397	5389	8	
1740	5665	5655	10	0.18%
1760	5614	5589	25	0.45%
1780	5723	5656	67	1.18%
1800	5874	5750	124	2.16%
1820	5814	5653	161	
1840	5826	5652	174	
1860	5704	5555	149	
1880	5745	5586	159	
1900	5813	5683	130	
1920	5793	5649	144	
1940	5771	5624	147	
1960	5709	5528	181	
1980	5801	5667	134	
2000	5827	5672	155	

	1740	6.68%	372
	1760	4.70%	264
	1780	0.05%	3
	1800	0.60%	34

Det3= 1C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2474	2471	3	
1520	2879	2876	3	
1540	3308	3307	1	
1560	3791	3789	2	
1580	4308	4302	6	
1600	4507	4501	6	
1620	4824	4814	10	
1640	5167	5160	7	
1660	5226	5221	5	
1680	5357	5350	7	
1700	5456	5451	5	
1720	5528	5524	4	
1740	5671	5658	13	0.23%
1760	5536	5501	35	0.64%
1780	5663	5597	66	1.18%
1800	5755	5608	147	2.62%
1820	5810	5633	177	
1840	5775	5609	166	
1860	5643	5458	185	
1880	5681	5507	174	
1900	5715	5523	192	
1920	5739	5540	199	
1940	5686	5507	179	
1960	5793	5626	167	
1980	5670	5500	170	
2000	5719	5522	197	

	1740	2.83%	157
	1760	1.95%	109
	1780	0.87%	49
	1800	0.77%	43

Det4= 1D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2322	2320	2	
1520	2689	2686	3	
1540	3201	3201	0	
1560	3550	3550	0	
1580	4161	4154	7	
1600	4386	4384	2	
1620	4707	4704	3	
1640	5047	5043	4	
1660	5368	5360	8	
1680	5379	5374	5	
1700	5530	5525	5	
1720	5696	5688	8	
1740	5762	5746	16	0.28%
1760	5639	5626	13	0.23%
1780	5820	5761	59	1.02%
1800	5751	5581	170	3.05%
1820	5750	5573	177	
1840	5798	5622	176	
1860	5980	5801	179	
1880	5890	5707	183	
1900	5879	5708	171	
1920	5824	5644	180	
1940	5849	5674	175	
1960	5841	5663	178	
1980	5710	5527	182	
2000	5792	5628	164	

	1740	0.99%	56
	1760	2.03%	115
	1780	2.19%	124
	1800	3.09%	175

DECAY CALCUALTION

Sr-90/Y90
No. 92SR470-2137

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 11-May-92
DATE OF CALIBRATION 29-Jan-25

			uncert	
Ao =	23800	dpm	1190	dpm
N =	0.02		0.02	
T(1/2) =	28.60	years	28.60	years
T =	32.74	years	32.74	years
dilution =	1.00		1.00	
A =	10765.11	dpm	538.26	dpm

CPM Acceptance Range

2368.3	118.42	
2131.5	**2013**	**Low**
2605.2	**2724**	**High**

Approval: _____ Date:_____

DECAY CALCUALTION

Sr-90/Y90
No. 92SR470-2139

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 03-Jun-92
DATE OF CALIBRATION 29-Jan-25

			uncert	
Ao =	20700	dpm	1040	dpm
N =	0.02		0.02	
T(1/2) =	28.60	years	28.60	years
T =	32.68	years	32.68	years
dilution =	1.00		1.00	
A =	9377.24	dpm	471.13	dpm

CPM Acceptance Range

2063	103.65	
1856.7	**1753**	**Low**
2269.3	**2373**	**High**

DECAY CALCUALTION

Sr-90/Y90
No. 92SR470-2136

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 11-May-92
DATE OF CALIBRATION 29-Jan-25

			uncert	
Ao =	16100	dpm	805	dpm
N =	0.02		0.02	
T(1/2) =	28.60	years	28.60	years
T =	32.74	years	32.74	years
dilution =	1.00		1.00	
A =	7282.28	dpm	364.11	dpm

CPM Acceptance Range

1602.1	80.105
1441.9	**1362 Low**
1762.3	**1842 High**

Approval: _____ Date:_____

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:05
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	3070	3068	2
1520	3472	3468	4
1540	4012	4010	2
1560	4349	4347	2
1580	4885	4882	3
1600	5124	5123	1
1620	5531	5523	8
1640	5737	5731	6
1660	5781	5772	9
1680	5821	5817	4
1700	5992	5989	3
1720	5891	5888	3
1740	6067	6056	11
1760	6162	6134	28
1780	5962	5894	68
1800	6214	6077	137
1820	6044	5880	164
1840	6196	6038	158
1860	6106	5961	145
1880	6198	6053	144
1900	6297	6116	181
1920	6108	5931	177
1940	6258	6099	159
1960	6264	6084	180
1980	6058	5861	197

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

PDF created with pdfFactory trial version www.pdffactory.com

Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:05
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	6067	5914	153

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

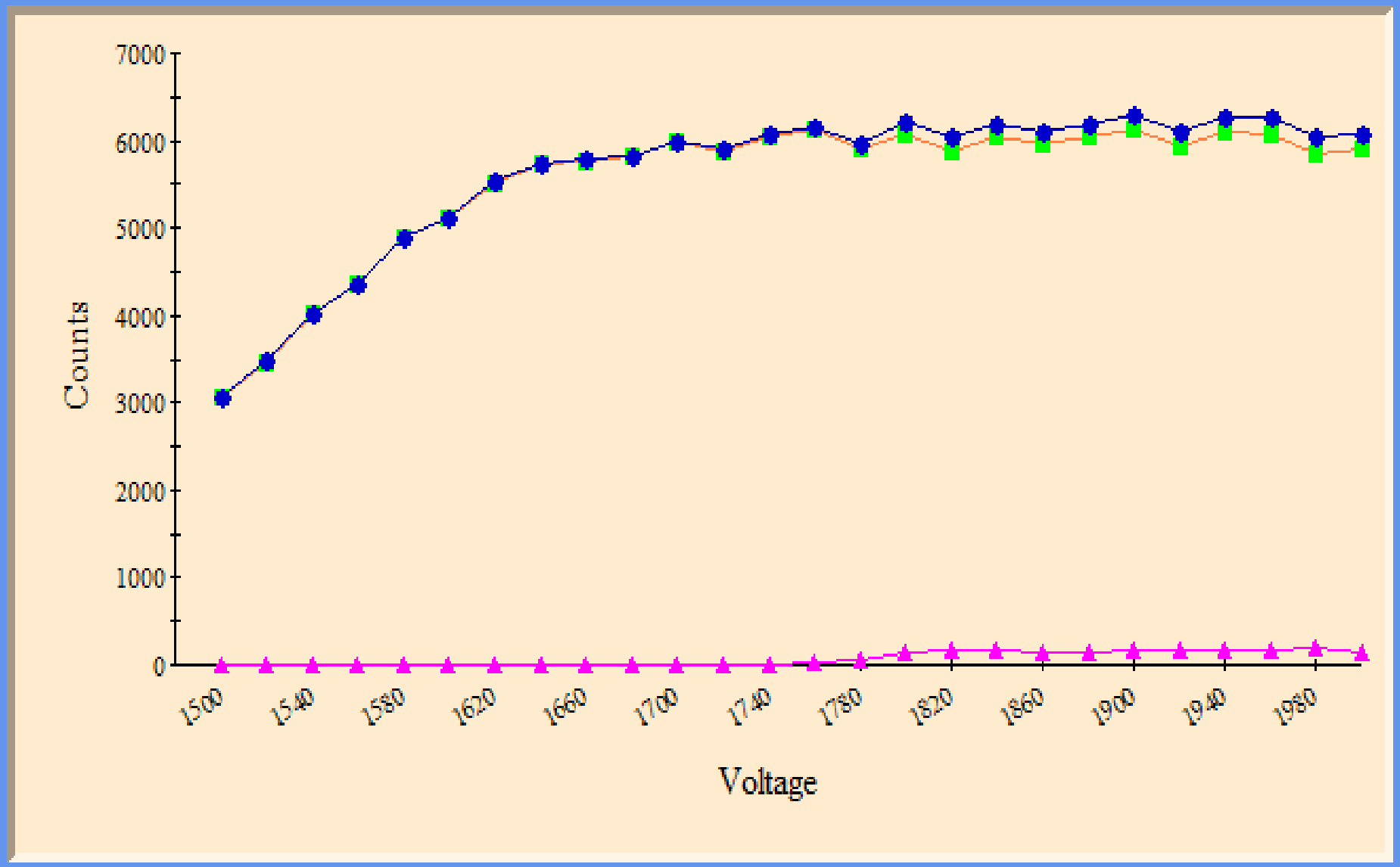
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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High Voltage Plateau Plot



Source Certificate - 92SR4702137 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 01/29/2025 10:05:00 AM Detector - A

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:45
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** B **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2152	2150	2
1520	2596	2595	1
1540	3027	3025	2
1560	3491	3490	1
1580	3954	3948	6
1600	4332	4328	4
1620	4639	4635	4
1640	4959	4952	7
1660	5304	5296	8
1680	5541	5534	7
1700	5387	5378	9
1720	5397	5389	8
1740	5665	5655	10
1760	5614	5589	25
1780	5723	5656	67
1800	5874	5750	124
1820	5814	5653	161
1840	5826	5652	174
1860	5704	5555	149
1880	5745	5586	159
1900	5813	5683	130
1920	5793	5649	144
1940	5771	5624	147
1960	5709	5528	181
1980	5801	5667	134

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 10:45
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** B **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	5827	5672	155

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

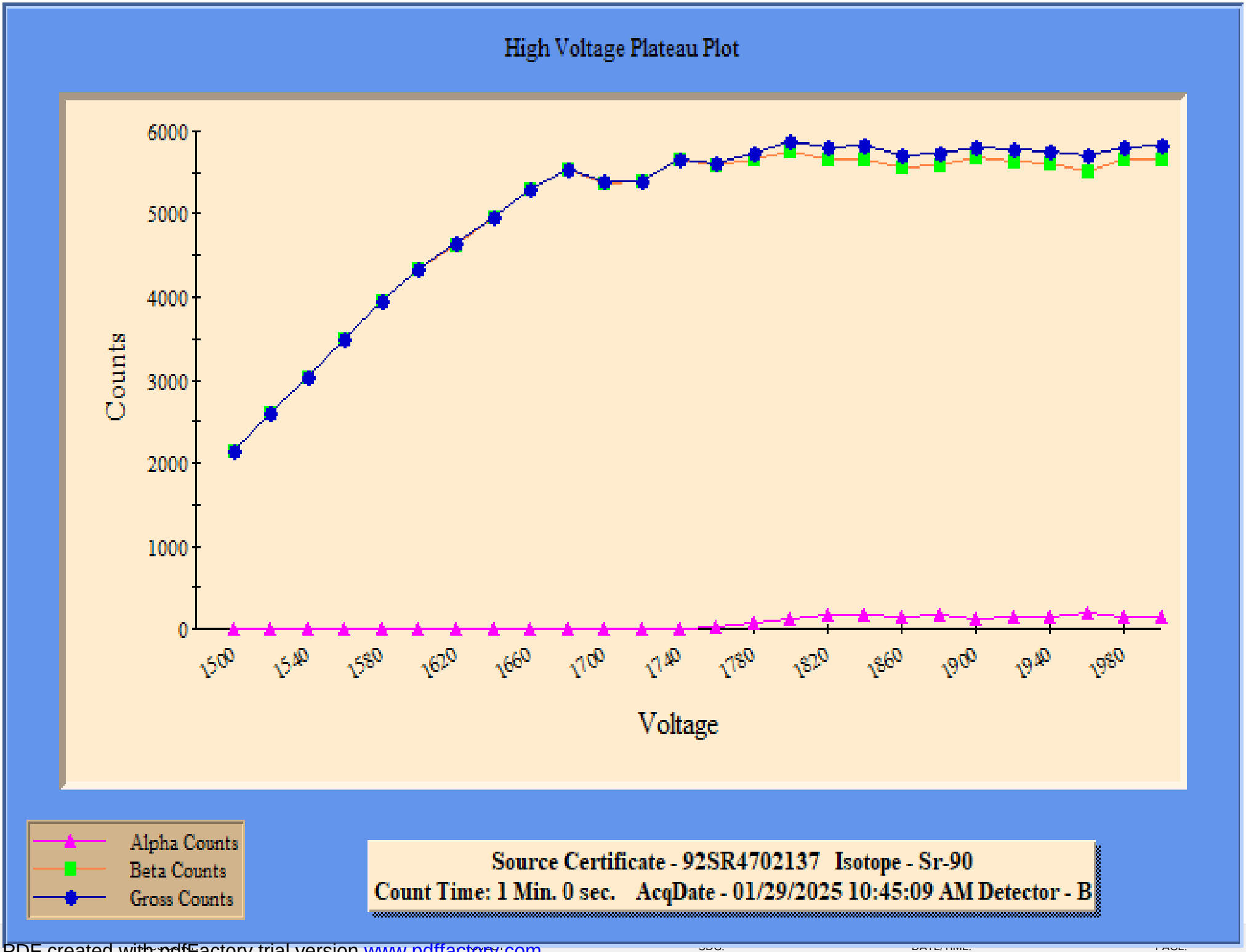
Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 11:24
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2474	2471	3
1520	2879	2876	3
1540	3308	3307	1
1560	3791	3789	2
1580	4308	4302	6
1600	4507	4501	6
1620	4824	4814	10
1640	5167	5160	7
1660	5226	5221	5
1680	5357	5350	7
1700	5456	5451	5
1720	5528	5524	4
1740	5671	5658	13
1760	5536	5501	35
1780	5663	5597	66
1800	5755	5608	147
1820	5810	5633	177
1840	5775	5609	166
1860	5643	5458	185
1880	5681	5507	174
1900	5715	5523	192
1920	5739	5540	199
1940	5686	5507	179
1960	5793	5626	167
1980	5670	5500	170

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 11:24
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	5719	5522	197

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

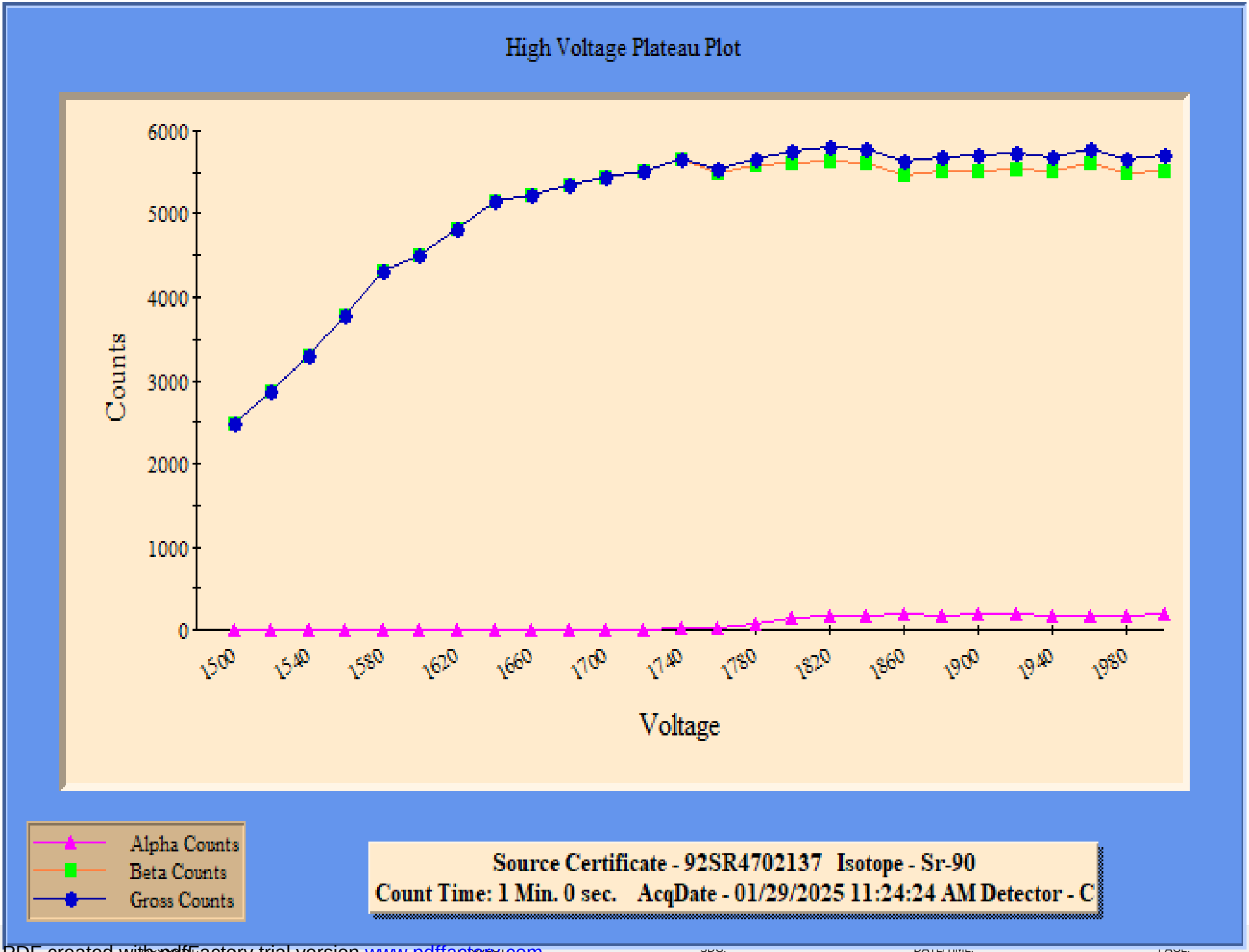
Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Test Date:** 01/29/2025 11:55
User ID: Meier **System Serial #:** 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** D **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 92SR4702137
Voltage Step: 20 **Isotope Name:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2322	2320	2
1520	2689	2686	3
1540	3201	3201	0
1560	3550	3550	0
1580	4161	4154	7
1600	4386	4384	2
1620	4707	4704	3
1640	5047	5043	4
1660	5368	5360	8
1680	5379	5374	5
1700	5530	5525	5
1720	5696	5688	8
1740	5762	5746	16
1760	5639	5626	13
1780	5820	5761	59
1800	5751	5581	170
1820	5750	5573	177
1840	5798	5622	176
1860	5980	5801	179
1880	5890	5707	183
1900	5879	5708	171
1920	5824	5644	180
1940	5849	5674	175
1960	5841	5663	178
1980	5710	5527	182

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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Pace National
G-5400W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Test Date: 01/29/2025 11:55
System Serial #: 042101

Counting Time: 1 min 0 sec
Sample Position: 42 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 92SR4702137
Isotope Name: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 5 - 899	Alpha ROI Counts Chn 900 - 1023
2000	5792	5628	164

Special Notes:

Report Generated: 01/29/2025 **G5400HV.RPT ver 1.0**

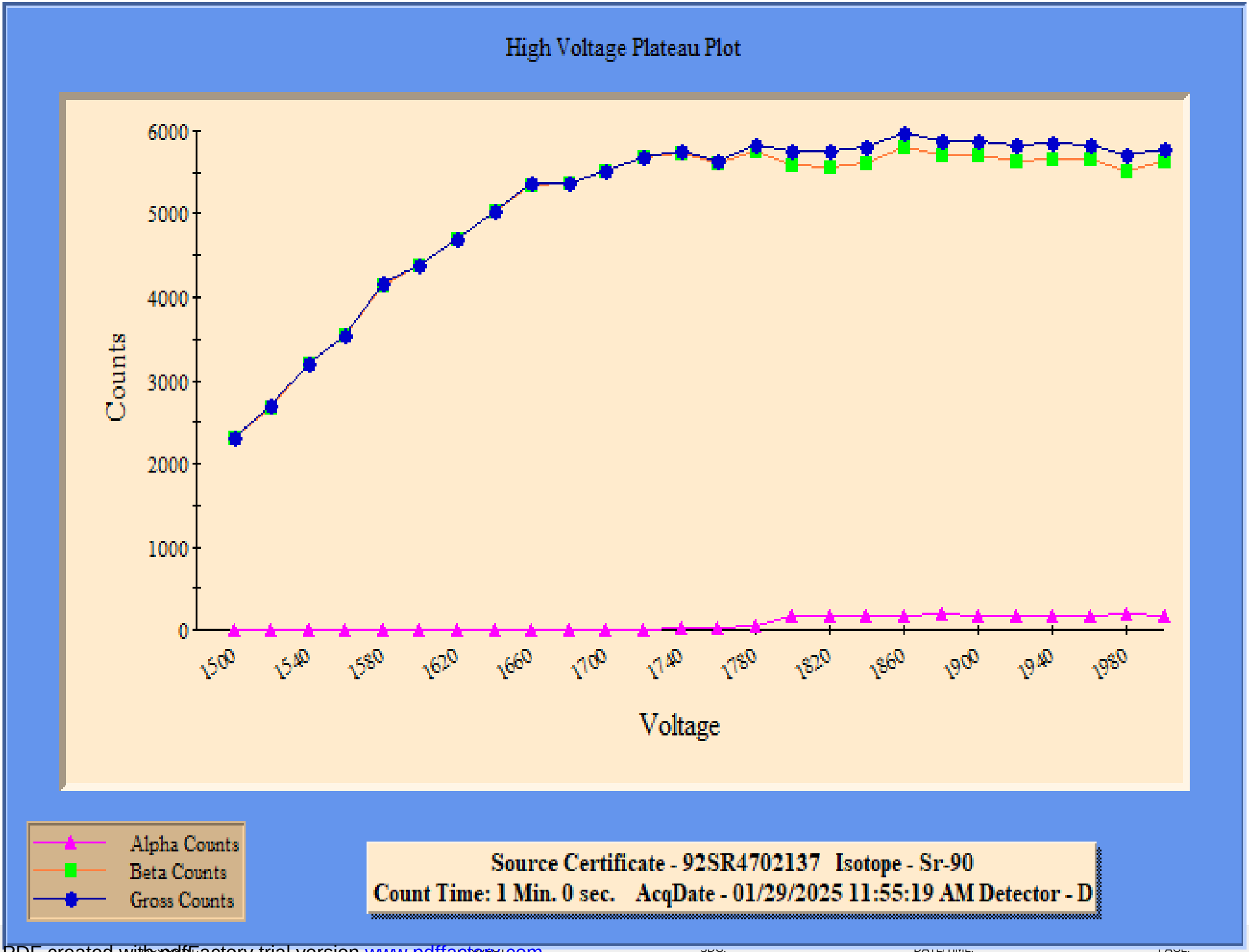
Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 15:11
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702139
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	4890	40
2	5083	29
3	4955	24
4	4983	30
5	4922	22
6	4971	16
7	5075	22
8	4929	25
9	5005	22
10	4941	21
11	5057	27
12	4961	28
13	4985	23
14	5016	26
15	5122	25
16	5053	28
17	5015	14
18	4930	15
19	4916	14
20	4957	22

(Xbar) Mean:	4988.30	23.65
Calculated Chi-Sqr Value:	15.36	30.97

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** B
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 13:20
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702136
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	3680	15
2	3908	19
3	3816	14
4	3810	12
5	3728	15
6	3912	13
7	3780	14
8	3793	10
9	3762	13
10	3769	19
11	3793	22
12	3752	16
13	3848	15
14	3707	21
15	3807	15
16	3710	11
17	3688	17
18	3721	12
19	3829	12
20	3776	15

(Xbar) Mean:	3779.45	15.00
Calculated Chi-Sqr Value:	21.22	13.33

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** C
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 13:57
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702136
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	3602	25
2	3704	22
3	3654	21
4	3720	25
5	3720	15
6	3691	14
7	3751	19
8	3773	15
9	3706	7
10	3718	16
11	3726	23
12	3675	21
13	3740	18
14	3795	18
15	3767	19
16	3729	17
17	3688	18
18	3644	22
19	3722	23
20	3782	17

(Xbar) Mean:	3715.35	18.75
Calculated Chi-Sqr Value:	11.83	18.65

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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Pace National
G-5400W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Sample Position: 42 **Detector:** D
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 01/29/2025 14:21
System Serial #: 042101
Number of Counts Performed: 20
Source Certificate: 92SR4702136
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 5 - 899	Chn 900 - 1023
1	3765	23
2	3785	24
3	3785	12
4	3842	14
5	3836	25
6	3881	9
7	3733	21
8	3783	21
9	3746	18
10	3854	19
11	3849	12
12	3699	15
13	3796	16
14	3742	14
15	3793	21
16	3745	16
17	3716	14
18	3756	15
19	3675	32
20	3762	22

(Xbar) Mean:	3777.15	18.15
Calculated Chi-Sqr Value:	14.98	31.77

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 01/29/2025 **G5400CHISQR.RPT ver 1.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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904/9320 Radiochemistry

Radiochemistry Raw Data

RADIUM-228
METHOD: **EPA 904/9320**
SDG# WG2470390

Lab ID	Result	2σ CE	2σTPU	SDWA DL	Lc	MDA	UNITS	PREP DATE	ANALYSIS DATE	ANALYST
BLANK WG2470390	0.095	0.146	0.294	0.264	0.149	0.283	pCi/l	3/17/2025	3/20/2025	DDD3903
LCS WG2470390	4.224	0.230	0.371	0.312	0.175	0.334	pCi/l	3/17/2025	3/20/2025	DDD3903
MS L1835110-03 WG2470390	17.454	0.812	1.305	1.010	0.569	1.085	pCi/l	3/17/2025	3/20/2025	DDD3903
MSD L1835110-03 WG2470390	17.000	0.858	1.363	1.126	0.632	1.210	pCi/l	3/17/2025	3/20/2025	DDD3903
DUP L1836138-02 WG2470390	-0.329	0.388	0.692	0.711	0.398	0.764	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835110-03 WG2470390	1.057	0.418	0.731	0.725	0.407	0.779	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835110-05 WG2470390	2.424	0.409	0.713	0.671	0.377	0.721	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835110-07 WG2470390	1.375	0.323	0.543	0.546	0.305	0.587	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835110-09 WG2470390	1.893	0.323	0.541	0.532	0.298	0.572	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835187-01 WG2470390	1.189	0.447	0.774	0.774	0.436	0.832	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835187-03 WG2470390	-0.035	0.356	0.656	0.647	0.363	0.695	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835187-05 WG2470390	0.442	0.337	0.635	0.599	0.337	0.642	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835187-06 WG2470390	0.107	0.297	0.610	0.543	0.308	0.582	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835200-01 WG2470390	-0.874	0.384	0.692	0.724	0.407	0.778	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835200-02 WG2470390	0.151	0.347	0.591	0.625	0.351	0.671	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835200-03 WG2470390	0.367	0.385	0.708	0.690	0.390	0.740	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835489-01 WG2470390	1.474	0.279	0.486	0.463	0.260	0.498	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835496-01 WG2470390	0.349	0.477	0.960	0.861	0.488	0.923	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835679-01 WG2470390	0.768	0.205	0.416	0.347	0.197	0.373	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835680-01 WG2470390	0.486	0.277	0.570	0.489	0.278	0.525	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835703-01 WG2470390	-0.204	0.443	0.757	0.805	0.451	0.865	pCi/l	3/17/2025	3/20/2025	DDD3903
L1835703-02 WG2470390	0.031	0.248	0.472	0.453	0.256	0.486	pCi/l	3/17/2025	3/20/2025	DDD3903
L1836138-01 WG2470390	-0.349	0.281	0.506	0.523	0.294	0.560	pCi/l	3/17/2025	3/20/2025	DDD3903
L1836138-02 WG2470390	0.076	0.358	0.664	0.651	0.366	0.698	pCi/l	3/17/2025	3/20/2025	DDD3903
L1836138-03 WG2470390	0.210	0.229	0.446	0.412	0.233	0.442	pCi/l	3/17/2025	3/20/2025	DDD3903
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/l	3/17/2025	1/0/1900	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/l	3/17/2025	1/0/1900	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/l	3/17/2025	1/0/1900	

RADIUM-228

METHOD:	EPA 904/9320
SDG#	WG2470390
ANALYST:	DDD3903
PREP DATE:	3/17/25 10:10
Matrix:	NPW/DW

LAB ID	sample date	sample size (L)	ingrowth start	decay start	t3 min	count date/end time	counts	UNIT/DET no.	UNIT	DET no.	back CPM	COUNTER EFF	SAMPLE DECAY DAYS	SAMPLE DECAY FACTOR	t1 min	Count Time t2 min	λt_2 $(1-e^{-\lambda t}2)$	1 $(1-e^{-\lambda t}3)$	1 $e^{-\lambda t}1$	Ba % rec	Y %rec	Ra228 pCi/l
BLANK WG2470390	**3/17/25 10:10**	1.000	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	242	4A-1	4	1	1.15	47.27	0.01	1.00	91	200	1.200	1.002	1.186	100.0%	88.7%	0.095
LCS WG2470390	**3/17/25 10:10**	1.000	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	965	4A-2	4	2	1.88	46.61	0.01	1.00	91	200	1.200	1.002	1.186	100.0%	96.3%	4.224
MS L1835110-03 WG2470390	3/11/2025 12:30	0.300	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	962	4A-3	4	3	1.47	46.51	0.03	1.00	91	200	1.200	1.002	1.186	100.0%	88.4%	17.454
MSD L1835110-03 WG2470390	3/11/2025 12:30	0.300	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	987	4A-4	4	4	1.76	47.93	0.03	1.00	91	200	1.200	1.002	1.186	94.0%	89.1%	17.000
DUP L1836138-02 WG2470390	3/13/2025 11:00	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	374	4B-1	4	5	1.97	48.13	0.02	1.00	91	200	1.200	1.002	1.186	94.4%	88.7%	-0.329
L1835110-03 WG2470390	3/11/2025 12:30	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	421	4B-2	4	6	1.80	48.01	0.03	1.00	91	200	1.200	1.002	1.186	92.6%	85.0%	1.057
L1835110-05 WG2470390	3/11/2025 11:00	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	501	4B-3	4	7	1.75	48.05	0.03	1.00	91	200	1.200	1.002	1.186	97.7%	85.9%	2.424
L1835110-07 WG2470390	3/11/2025 12:25	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	544	4B-4	4	8	2.14	47.46	0.03	1.00	91	200	1.200	1.002	1.186	100.0%	82.1%	1.375
L1835110-09 WG2470390	3/11/2025 11:15	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	539	4C-1	4	9	1.92	45.46	0.03	1.00	91	200	1.200	1.002	1.186	98.3%	84.9%	1.893
L1835187-01 WG2470390	3/11/2025 12:40	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	377	4C-2	4	10	1.58	46.30	0.03	1.00	91	200	1.200	1.002	1.186	84.3%	85.3%	1.189
L1835187-03 WG2470390	3/11/2025 15:45	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	324	4C-3	4	11	1.63	46.97	0.03	1.00	91	200	1.200	1.002	1.186	100.0%	86.2%	-0.035
L1835187-05 WG2470390	3/11/2025 15:45	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	301	4C-4	4	12	1.37	46.58	0.03	1.00	91	200	1.200	1.002	1.186	96.0%	90.0%	0.442
L1835187-06 WG2470390	3/11/2025 17:34	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	197	4D-1	4	13	0.95	47.64	0.03	1.00	91	200	1.200	1.002	1.187	87.5%	89.8%	0.107
L1835200-01 WG2470390	3/11/2025 12:40	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	282	3A-1	3	1	1.66	43.98	0.03	1.00	91	200	1.200	1.002	1.187	100.0%	82.8%	-0.874
L1835200-02 WG2470390	3/11/2025 15:45	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	348	3A-2	3	2	1.69	45.68	0.03	1.00	91	200	1.200	1.002	1.187	76.6%	87.0%	0.151
L1835200-03 WG2470390	3/11/2025 17:34	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	262	3A-3	3	3	1.22	44.70	0.03	1.00	91	200	1.200	1.002	1.187	90.7%	81.5%	0.367
L1835489-01 WG2470390	3/11/2025 7:30	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:17	472	3A-4	3	4	1.70	44.74	0.03	1.00	91	200	1.200	1.002	1.187	95.7%	96.2%	1.474
L1835496-01 WG2470390	3/11/2025 11:40	0.300	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	224	3B-1	3	5	1.05	44.86	0.03	1.00	91	200	1.200	1.002	1.187	100.0%	91.9%	0.349
L1835679-01 WG2470390	3/6/2025 8:10	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	270	3B-2	3	6	1.00	47.94	0.04	1.00	91	200	1.200	1.002	1.187	100.0%	89.0%	0.768
L1835680-01 WG2470390	3/6/2025 9:20	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	215	3B-3	3	7	0.92	45.40	0.04	1.00	91	200	1.200	1.002	1.187	100.0%	90.1%	0.486
L1835703-01 WG2470390	3/12/2025 8:20	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	380	3B-4	3	8	1.96	44.39	0.02	1.00	91	200	1.200	1.002	1.187	100.0%	79.9%	-0.204
L1835703-02 WG2470390	3/12/2025 9:35	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	245	3C-1	3	9	1.21	45.35	0.02	1.00	91	200	1.200	1.002	1.187	94.5%	83.8%	0.031
L1836138-01 WG2470390	3/13/2025 11:00	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	285	3C-2	3	10	1.56	44.92	0.02	1.00	91	200	1.200	1.002	1.187	87.8%	88.9%	-0.349
L1836138-02 WG2470390	3/13/2025 11:00	0.500	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	284	3C-3	3	11	1.40	45.54	0.02	1.00	91	200	1.200	1.002	1.187	88.8%	92.6%	0.076
L1836138-03 WG2470390	3/13/2025 11:00	0.700	3/18/2025 10:27	3/20/2025 18:27	3360	3/20/25 23:18	232	3C-4	3	12	1.08	44.85	0.02	1.00	91	200	1.200	1.002	1.187	90.3%	92.0%	0.210
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!

=Daily backgrounds used

RADIUM 228 QC REPORT

METHOD: EPA 904/9320
SDG# WG2470390
ANALYST: DDD3903

QC SPIKE INFORMATION
VOLUME USED: **0.5**
QC ID: 24H07307
ACTIVITY: 10.0 pCi/ml

Analyte **Ra228** units pCi/L
Matrix
Sample 336138-02 WG2470390

	RESULT	ERROR	2σTPU	SDWA DL	Lc	MDA	known	%REC	LIMITS LOW	LIMITS HIGH	RPD	LIMITS	RER	LIMITS
BLANK WG2470390	0.095	0.146	0.294	0.264	0.149	0.283								
LCS WG2470390	4.224	0.230	0.371	0.312	0.175	0.334	5.0	**84.5%**	80%	120%				
L1836138-02 WG2470390	0.076	0.358	0.664	0.651	0.366	0.698								
DUP L1836138-02 WG2470390	-0.329	0.388	0.692	0.711	0.398	0.764					**NC**	20%	**0.766**	3
L1835110-03 WG2470390	1.057	0.418	0.731	0.725	0.407	0.779								
MS L1835110-03 WG2470390	17.45	0.81	1.31	1.01	0.57	1.09	16.7	**98.4%**	70%	130%				
MSD L1835110-03 WG2470390	17.00	0.86	1.36	1.13	0.63	1.21	16.7	**95.7%**	70%	130%	**2.6%**	20%	**0.38**	3

*** - Outside Control Limits**

SAMPLES:

BLANK WG2470390	L1835187-05 WG24	L1836138-01 WG2470390
LCS WG2470390	L1835187-06 WG24	L1836138-02 WG2470390
MS L1835110-03 WG2470390	L1835200-01 WG24	L1836138-03 WG2470390
MSD L1835110-03 WG2470390	L1835200-02 WG2470390	
DUP L1836138-02 WG2470390	L1835200-03 WG2470390	
L1835110-03 WG2470390	L1835489-01 WG2470390	
L1835110-05 WG2470390	L1835496-01 WG2470390	
L1835110-07 WG2470390	L1835679-01 WG2470390	
L1835110-09 WG2470390	L1835680-01 WG2470390	
L1835187-01 WG2470390	L1835703-01 WG2470390	
L1835187-03 WG2470390	L1835703-02 WG2470390	

3/20/2025

DECAY CALCUALTION

Th-232 Source
Source No. 2471-55
ESC58532
Pace No. 24H07307

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 07-Aug-24
DATE OF CALIBRATION 17-Mar-25

Ao =	1.03	nCi
N =	0.00	
T(1/2) =	1.41E+10	years
T =	0.00	years
dilution =	1.00	
A =	1.03	nCi
A =	2288.82	dpm/ml
A =	1031.00	pCi/ml
Stock =	1031	pCi/ml
Stock	9.7	ml
DI	1000	pCi/ml
A =	10.0 +/-	0.30013432 pCi/ml

Pace Analytical

View as PDF (CreatePDF?batchnum=WG2470390)

RA-228 Aqueous Radiochemistry Prep Benchsheet

Batch: WG2470390

Analyst: TBP4289 Prep Start Date/Time: 03/17/25 10:10 Prep End Date/Time: 03/20/25 23:53 Method: 904 SOP: ENV-SOP-MTJL-0300/0322 Pipet ID: E-24, E-21, E-12 Balance ID: RADBAL3
Stirrer ID: ST 15, 34, 42, 43, 44 Hotplate ID: HP 20, 21 Centrifuge ID: C 5, C 6 Centrifuge Tube Lot: 920142 Transfer Pipet Lot: 24450561 1mL e-Pipet Tip Lot: 2243 2mL e-Pipet Tip Lot: 2418
10mL e-Pipet Tip Lot: 2332 10mL Manual Pipet Tip Lot: p7601073 pH Lot: 10BDH3921 Filter Lot#: N/A Filter Lot#: N/A

LCS/MS Spike: 24H07307 Amt. Used: 0.50 mL Exp. Date:08/07/25 16 mg/mL Barium Carrier: 25A31529 Amt. Used: 2 mL Exp. Date:05/31/25 1M Citric Acid: 25A24419 Amt. Used: 5 mL Exp. Date:09/30/25
Methyl Orange: 25A24421 Amt. Used: 0.20 mL Exp. Date:01/24/26 15 mg/mL Lead Carrier: 25C12783 Amt. Used: 10 mL Exp. Date:03/12/26 10 mg/mL Strontium Carrier: 25C04631 Amt. Used: 2 mL Exp. Date:03/31/25
18 mg/mL Yttrium Carrier: 25A09528 Amt. Used: 1 mL Exp. Date:01/09/26 Ammonium Hydroxide: 25B25404 Amt. Used: 10 mL Exp. Date:07/08/25 1:1 H2SO4: 25C13088 Amt. Used: 10 mL Exp. Date:03/13/26
200 mg/mL Ammonium Sulfate: 25C03355 Amt. Used: 16 mL Exp. Date:03/03/26 Nitric Acid: 25B18381 Amt. Used: 34 mL Exp. Date:09/30/29 0.25N Basic EDTA: 24K23552 Amt. Used: 85 mL Exp. Date:11/23/25
0.9mg/mL each Sr/Y Carrier: 25A20695 Amt. Used: 2 mL Exp. Date:03/31/25 Acetic Acid: 24H09546 Amt. Used: 20 mL Exp. Date:02/28/26 1.5mg/mL Lead Carrier: 25B27873 Amt. Used: 2 mL Exp. Date:02/21/26
2% NH4 Sulfide: 25C13070 Amt. Used: 0.50 mL Exp. Date:03/13/26 9 mg/mL Yttrium Carrier: 25A21880 Amt. Used: 1 mL Exp. Date:01/21/26 18N NaOH: 25B27930 Amt. Used: 5 mL Exp. Date:02/27/26
6N Nitric Acid: 25C14182 Amt. Used: 2 mL Exp. Date:03/14/26 10N NaOH: 25B27929 Amt. Used: 4 mL Exp. Date:02/27/26 1N Nitric Acid: 24K20078 Amt. Used: 3.50 mL Exp. Date:11/20/25
5% Ammonium Oxalate: 25C07143 Amt. Used: 3.50 mL Exp. Date:03/07/28

Sample Number	Collect Date	Sample Vol. (L or filt)	Ac-228 Ingrowth Time	Ac-228 Decay Time	Y Planchet Tare (g)	Y Planchet Gross (g)	Y Planchet Net (g)	Ba Planchet Tare (g)	Ba Planchet Gross (g)	Ba Planchet Net (g)	Review Analyst	Review Date
BLANK		1.000	03/18/25 10:27:22	03/20/25 18:27:00	7.56636	7.59602	0.02966	7.49474	7.55265	0.05791	DDD3903	03/20/25 23:53:53
LCS		1.000	03/18/25 10:27:22	03/20/25 18:27:00	7.55494	7.58714	0.0322	7.49686	7.55418	0.05732	DDD3903	03/20/25 23:53:53
MS(L1835110-03)		0.300	03/18/25 10:27:22	03/20/25 18:27:00	7.54682	7.57637	0.02955	7.50715	7.56472	0.05757	DDD3903	03/20/25 23:53:53
MSD(L1835110-03)		0.300	03/18/25 10:27:22	03/20/25 18:27:00	7.63762	7.66742	0.0298	7.49698	7.54988	0.0529	DDD3903	03/20/25 23:53:53
DUP(L1836138-02)		0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.57163	7.60130	0.02967	7.52610	7.57922	0.05312	DDD3903	03/20/25 23:53:53
1. L1835110-03	03/11/25 12:30	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.56530	7.59371	0.02841	7.49537	7.54751	0.05214	DDD3903	03/20/25 23:53:53
2. L1835110-05	03/11/25 11:00	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.76237	7.79108	0.02871	7.49769	7.55268	0.05499	DDD3903	03/20/25 23:53:53
3. L1835110-07	03/11/25 12:25	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.65631	7.68377	0.02746	7.49010	7.54729	0.05719	DDD3903	03/20/25 23:53:53
4. L1835110-09	03/11/25 11:15	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.68049	7.70888	0.02839	7.52222	7.57755	0.05533	DDD3903	03/20/25 23:53:53
5. L1835187-01	03/11/25 12:40	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.64908	7.67759	0.02851	7.47690	7.52435	0.04745	DDD3903	03/20/25 23:53:53
6. L1835187-03	03/11/25 15:45	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.68617	7.71499	0.02882	7.51089	7.56755	0.05666	DDD3903	03/20/25 23:53:53
7. L1835187-05	03/11/25 15:45	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.57704	7.60712	0.03008	7.49722	7.55126	0.05404	DDD3903	03/20/25 23:53:53
8. L1835187-06	03/11/25 17:34	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.50235	7.53236	0.03001	7.48431	7.53358	0.04927	DDD3903	03/20/25 23:53:53
9. L1835200-01	03/11/25 12:40	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.44179	7.46948	0.02769	7.49512	7.55325	0.05813	DDD3903	03/20/25 23:53:53
10. L1835200-02	03/11/25 15:45	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.73900	7.76808	0.02908	7.51463	7.55776	0.04313	DDD3903	03/20/25 23:53:53
11. L1835200-03	03/11/25 17:34	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.58149	7.60872	0.02723	7.51501	7.56606	0.05105	DDD3903	03/20/25 23:53:53
12. L1835489-01	03/11/25 07:30	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.58669	7.61885	0.03216	7.50048	7.55436	0.05388	DDD3903	03/20/25 23:53:53
13. L1835496-01	03/11/25 11:40	0.300	03/18/25 10:27:22	03/20/25 18:27:00	7.59853	7.62925	0.03072	7.50358	7.56693	0.06335	DDD3903	03/20/25 23:53:53
14. L1835679-01	03/06/25 08:10	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.57743	7.60719	0.02976	7.50556	7.57147	0.06591	DDD3903	03/20/25 23:53:53
15. L1835680-01	03/06/25 09:20	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.60122	7.63134	0.03012	7.50005	7.56465	0.0646	DDD3903	03/20/25 23:53:53
16. L1835703-01	03/12/25 08:20	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.55595	7.58266	0.02671	7.49624	7.55927	0.06303	DDD3903	03/20/25 23:53:53
17. L1835703-02	03/12/25 09:35	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.61489	7.64289	0.028	7.50348	7.55667	0.05319	DDD3903	03/20/25 23:53:53
18. L1836138-01	03/13/25 11:00	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.56760	7.59731	0.02971	7.48221	7.53162	0.04941	DDD3903	03/20/25 23:53:53
19. L1836138-02	03/13/25 11:00	0.500	03/18/25 10:27:22	03/20/25 18:27:00	7.63399	7.66494	0.03095	7.50040	7.55037	0.04997	DDD3903	03/20/25 23:53:53
20. L1836138-03	03/13/25 11:00	0.700	03/18/25 10:27:22	03/20/25 18:27:00	7.56783	7.59860	0.03077	7.51657	7.56738	0.05081	DDD3903	03/20/25 23:53:53

Comments:Reviewed By:DDD3903 on 03/20/25 23:53:53

Yttrium Recovery

9 mg/ml(Y)

Known $Y_2(C_2O_4)_3 \cdot 9H_2O$

Standardized Value	9.84	mg/ml	Y_2	177.8 g/mol
Volume Added	1.00	mL	$Y_2(C_2O_4)_3.9H_2O$	603.8 g/mol
Mass Added	33.43	mg		

LAB ID	TARE(g)	GROSS(g)	NET(g)	Y %rec
BLANK WG2470390	7.56636	7.59602	0.0297	**89%**
LCS WG2470390	7.55494	7.58714	0.0322	**96.3%**
MS L1835110-03 WG2470390	7.54682	7.57637	0.0295	**88.4%**
MSD L1835110-03 WG2470390	7.63762	7.66742	0.0298	**89.1%**
DUP L1836138-02 WG2470390	7.57163	7.6013	0.0297	**89%**
L1835110-03 WG2470390	7.5653	7.59371	0.0284	**85.0%**
L1835110-05 WG2470390	7.76237	7.79108	0.0287	**85.9%**
L1835110-07 WG2470390	7.65631	7.68377	0.0275	**82.1%**
L1835110-09 WG2470390	7.68049	7.70888	0.0284	**84.9%**
L1835187-01 WG2470390	7.64908	7.67759	0.0285	**85.3%**
L1835187-03 WG2470390	7.68617	7.71499	0.0288	**86.2%**
L1835187-05 WG2470390	7.57704	7.60712	0.0301	**90%**
L1835187-06 WG2470390	7.50235	7.53236	0.0300	**89.8%**
L1835200-01 WG2470390	7.44179	7.46948	0.0277	**82.8%**
L1835200-02 WG2470390	7.739	7.76808	0.0291	**87.0%**
L1835200-03 WG2470390	7.58149	7.60872	0.0272	**81.5%**
L1835489-01 WG2470390	7.58669	7.61885	0.0322	**96.2%**
L1835496-01 WG2470390	7.59853	7.62925	0.0307	**91.9%**
L1835679-01 WG2470390	7.57743	7.60719	0.0298	**89.0%**
L1835680-01 WG2470390	7.60122	7.63134	0.0301	**90.1%**
L1835703-01 WG2470390	7.55595	7.58266	0.0267	**79.9%**
L1835703-02 WG2470390	7.61489	7.64289	0.0280	**83.8%**
L1836138-01 WG2470390	7.5676	7.59731	0.0297	**88.9%**
L1836138-02 WG2470390	7.63399	7.66494	0.0309	**92.6%**
L1836138-03 WG2470390	7.56783	7.5986	0.0308	**92.0%**
0			0.0000	**0.0%**
0			0.0000	**0.0%**
0			0.0000	**0.0%**

25A21880 Standardization Date: 01/21/25

		Y2(C2O4)3.9H2O	Y g/mL	Y mg/mL
Tare (g)	Gross (g)	Net (g)		
0.08112	0.41313	0.33201	0.00978	9.7766
0.08088	0.41708	0.33620	0.00990	9.9000
0.08230	0.41703	0.33473	0.00986	9.8567

Avg. Y mg/mL

9.8445 ± 0.64%

Barium Recovery

16 mg/ml(Ba)

Known $BaSO_4$

Standardized Value	16.55	mg/ml	Ba	137	g/mol
volume added	2.00	ml			
	56.29	mg	$BaSO_4$	233	g/mol

25A31529 Standardization Date: 2/3/25				
T	G	N		
7.55195	7.60790	0.05595	0.02798	0.0164
7.56393	7.61980	0.05587	0.02793	0.0164
7.55326	7.61030	0.05704	0.02852	0.0168

16.55 +/- 1.2%

LAB ID	TARE(g)	GROSS(g)	NET(g)	%rec
BLANK WG2470390	7.49474	7.55265	0.0579	**103%**
LCS WG2470390	7.49686	7.55418	0.0573	**102%**
MS L1835110-03 WG2470390	7.50715	7.56472	0.0576	**102%**
MSD L1835110-03 WG2470390	7.49698	7.54988	0.0529	**94%**
DUP L1836138-02 WG2470390	7.5261	7.57922	0.0531	**94%**
L1835110-03 WG2470390	7.49537	7.54751	0.0521	**93%**
L1835110-05 WG2470390	7.49769	7.55268	0.0550	**98%**
L1835110-07 WG2470390	7.4901	7.54729	0.0572	**102%**
L1835110-09 WG2470390	7.52222	7.57755	0.0553	**98%**
L1835187-01 WG2470390	7.4769	7.52435	0.0475	**84%**
L1835187-03 WG2470390	7.51089	7.56755	0.0567	**101%**
L1835187-05 WG2470390	7.49722	7.55126	0.0540	**96%**
L1835187-06 WG2470390	7.48431	7.53358	0.0493	**88%**
L1835200-01 WG2470390	7.49512	7.55325	0.0581	**103%**
L1835200-02 WG2470390	7.51463	7.55776	0.0431	**77%**
L1835200-03 WG2470390	7.51501	7.56606	0.0511	**91%**
L1835489-01 WG2470390	7.50048	7.55436	0.0539	**96%**
L1835496-01 WG2470390	7.50358	7.56693	0.0633	**113%**
L1835679-01 WG2470390	7.50556	7.57147	0.0659	**117%**
L1835680-01 WG2470390	7.50005	7.56465	0.0646	**115%**
L1835703-01 WG2470390	7.49624	7.55927	0.0630	**112%**
L1835703-02 WG2470390	7.50348	7.55667	0.0532	**94%**
L1836138-01 WG2470390	7.48221	7.53162	0.0494	**88%**
L1836138-02 WG2470390	7.5004	7.55037	0.0500	**89%**
L1836138-03 WG2470390	7.51657	7.56738	0.0508	**90%**
0			0.0000	**0%**
0			0.0000	**0%**
0			0.0000	**0%**

G542 Runlog RA-228 Waters WG2470390

Sample order verified by DDD3903

Sample ID	Beta	LT	Det	Analyst	Start	End
BLANK WG2470390	242	200	4A-1	DDD3903	3/20/2025 19:57	3/20/2025 23:17
LCS WG2470390	965	200	4A-2	DDD3903	3/20/2025 19:57	3/20/2025 23:17
MS L1835110-03 WG2470390	962	200	4A-3	DDD3903	3/20/2025 19:57	3/20/2025 23:17
MSD L1835110-03 WG2470390	987	200	4A-4	DDD3903	3/20/2025 19:57	3/20/2025 23:17
DUP L1836138-02 WG2470390	374	200	4B-1	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835110-03 WG2470390	421	200	4B-2	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835110-05 WG2470390	501	200	4B-3	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835110-07 WG2470390	544	200	4B-4	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835110-09 WG2470390	539	200	4C-1	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835187-01 WG2470390	377	200	4C-2	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835187-03 WG2470390	324	200	4C-3	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835187-05 WG2470390	301	200	4C-4	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835187-06 WG2470390	197	200	4D-1	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835200-01 WG2470390	282	200	3A-1	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835200-02 WG2470390	348	200	3A-2	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835200-03 WG2470390	262	200	3A-3	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835489-01 WG2470390	472	200	3A-4	DDD3903	3/20/2025 19:57	3/20/2025 23:17
L1835496-01 WG2470390	224	200	3B-1	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1835679-01 WG2470390	270	200	3B-2	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1835680-01 WG2470390	215	200	3B-3	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1835703-01 WG2470390	380	200	3B-4	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1835703-02 WG2470390	245	200	3C-1	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1836138-01 WG2470390	285	200	3C-2	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1836138-02 WG2470390	284	200	3C-3	DDD3903	3/20/2025 19:58	3/20/2025 23:18
L1836138-03 WG2470390	232	200	3C-4	DDD3903	3/20/2025 19:58	3/20/2025 23:18

Unit 3 Beta Efficiencies Det 1-8

		DET1	DET2	DET3	DET 4	DET 5	DET 6	DET 7	DET 8
		y = -0.00006x2 - 0.059x + 45.664	y = -0.0002x2 - 0.0408x + 47.033	y = -0.00004x2 - 0.0505x + 46.152	y = 0.00006x2 - 0.0538x + 46.412	y =- 0.00002x2 - 0.06x + 46.723	y = 0.00004x2 - 0.0598x + 46.129	y = -0.00007x2 - 0.0532x + 47.067	y = 0.00005x2 - 0.0635x + 46.051
	A	-0.00006	-0.0002	-0.0001	0.00006	-0.00002	0.00004	-0.00007	0.00005
	B	-0.059	-0.0408	-0.0505	-0.0538	-0.06	0.0598	-0.0532	-0.0635
	C	45.664	47.033	46.152	46.412	46.723	46.129	47.067	46.051
SAMPLE ID	NET WT. mg	**3A-1** BETA EFF	**3A-2** BETA EFF	**3A-3** BETA EFF	**3A-4** BETA EFF	**3B-1** BETA EFF	**3B-2** BETA EFF	**3B-3** BETA EFF	**3B-4** BETA EFF
BLANK WG2470390	29.66	43.9	45.6	44.6	44.9	44.9	47.9	45.4	44.2
LCS WG2470390	32.2	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.1
MS L1835110-03 WG2470390	29.55	43.9	45.7	44.6	44.9	44.9	47.9	45.4	44.2
MSD L1835110-03 WG2470390	29.8	43.9	45.6	44.6	44.9	44.9	47.9	45.4	44.2
DUP L1836138-02 WG2470390	29.67	43.9	45.6	44.6	44.9	44.9	47.9	45.4	44.2
L1835110-03 WG2470390	28.41	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
L1835110-05 WG2470390	28.71	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
L1835110-07 WG2470390	27.46	44.0	45.8	44.7	45.0	45.1	47.8	45.6	44.3
L1835110-09 WG2470390	28.39	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
L1835187-01 WG2470390	28.51	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
L1835187-03 WG2470390	28.82	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
L1835187-05 WG2470390	30.08	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.2
L1835187-06 WG2470390	30.01	43.8	45.6	44.5	44.9	44.9	48.0	45.4	44.2
L1835200-01 WG2470390	27.69	44.0	45.7	44.7	45.0	45.0	47.8	45.5	44.3
L1835200-02 WG2470390	29.08	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.2
L1835200-03 WG2470390	27.23	44.0	45.8	44.7	45.0	45.1	47.8	45.6	44.4
L1835489-01 WG2470390	32.16	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.1
L1835496-01 WG2470390	30.72	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.1
L1835679-01 WG2470390	29.76	43.9	45.6	44.6	44.9	44.9	47.9	45.4	44.2
L1835680-01 WG2470390	30.12	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.2
L1835703-01 WG2470390	26.71	44.0	45.8	44.7	45.0	45.1	47.8	45.6	44.4
L1835703-02 WG2470390	28	44.0	45.7	44.7	45.0	45.0	47.8	45.5	44.3
L1836138-01 WG2470390	29.71	43.9	45.6	44.6	44.9	44.9	47.9	45.4	44.2
L1836138-02 WG2470390	30.95	43.8	45.6	44.5	44.8	44.8	48.0	45.4	44.1
L1836138-03 WG2470390	30.77	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.1
0	0	45.7	47.0	46.2	46.4	46.7	46.1	47.1	46.1
0	0	45.7	47.0	46.2	46.4	46.7	46.1	47.1	46.1
0	0	45.7	47.0	46.2	46.4	46.7	46.1	47.1	46.1

Unit 3 Beta Efficiencies Det 9-16

		DET9	DET10	DET11	DET 12	DET 13	DET 14	DET 15	DET 16
		y = -0.00001x2 - 0.0623x +47.103	y = -0.00004x2 - 0.0573x + 46.66	y = 0.000002x2 - 0.0628x + 47.482	y = -0.00005x2 - 0.0534x + 46.539	y = 0.00004x2 - 0.0691x + 47.134	y = 0.00007x2 - 0.062x + 46.722	y = 0.0002x2 - 0.0656x + 46.404	y = -0.0001x2 - 0.0477x + 46.461
	A	-0.00001	-0.00004	0.000002	-0.00005	0.00004	0.00007	0.00002	-0.0001
	B	-0.0623	-0.0573	-0.0628	-0.0534	-0.0691	-0.062	-0.0656	-0.0477
	C	47.103	46.66	47.482	46.539	47.134	46.722	46.404	46.461
SAMPLE ID	NET WT. mg	**3C-1** BETA EFF	**3C-2** BETA EFF	**3C-3** BETA EFF	**3C-4** BETA EFF	**3D-1** BETA EFF	**3D-2** BETA EFF	**3D-3** BETA EFF	**3D-4** BETA EFF
BLANK WG2470390	29.66	45.2	44.9	45.6	44.9	45.1	44.9	44.5	45.0
LCS WG2470390	32.2	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
MS L1835110-03 WG2470390	29.55	45.3	44.9	45.6	44.9	45.1	45.0	44.5	45.0
MSD L1835110-03 WG2470390	29.8	45.2	44.9	45.6	44.9	45.1	44.9	44.5	45.0
DUP L1836138-02 WG2470390	29.67	45.2	44.9	45.6	44.9	45.1	44.9	44.5	45.0
L1835110-03 WG2470390	28.41	45.3	45.0	45.7	45.0	45.2	45.0	44.6	45.0
L1835110-05 WG2470390	28.71	45.3	45.0	45.7	45.0	45.2	45.0	44.5	45.0
L1835110-07 WG2470390	27.46	45.4	45.1	45.8	45.0	45.3	45.1	44.6	45.1
L1835110-09 WG2470390	28.39	45.3	45.0	45.7	45.0	45.2	45.0	44.6	45.0
L1835187-01 WG2470390	28.51	45.3	45.0	45.7	45.0	45.2	45.0	44.6	45.0
L1835187-03 WG2470390	28.82	45.3	45.0	45.7	45.0	45.2	45.0	44.5	45.0
L1835187-05 WG2470390	30.08	45.2	44.9	45.6	44.9	45.1	44.9	44.4	44.9
L1835187-06 WG2470390	30.01	45.2	44.9	45.6	44.9	45.1	44.9	44.5	44.9
L1835200-01 WG2470390	27.69	45.4	45.0	45.7	45.0	45.3	45.1	44.6	45.1
L1835200-02 WG2470390	29.08	45.3	45.0	45.7	44.9	45.2	45.0	44.5	45.0
L1835200-03 WG2470390	27.23	45.4	45.1	45.8	45.0	45.3	45.1	44.6	45.1
L1835489-01 WG2470390	32.16	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
L1835496-01 WG2470390	30.72	45.2	44.9	45.6	44.9	45.0	44.9	44.4	44.9
L1835679-01 WG2470390	29.76	45.2	44.9	45.6	44.9	45.1	44.9	44.5	45.0
L1835680-01 WG2470390	30.12	45.2	44.9	45.6	44.9	45.1	44.9	44.4	44.9
L1835703-01 WG2470390	26.71	45.4	45.1	45.8	45.1	45.3	45.1	44.7	45.1
L1835703-02 WG2470390	28	45.4	45.0	45.7	45.0	45.2	45.0	44.6	45.0
L1836138-01 WG2470390	29.71	45.2	44.9	45.6	44.9	45.1	44.9	44.5	45.0
L1836138-02 WG2470390	30.95	45.2	44.8	45.5	44.8	45.0	44.9	44.4	44.9
L1836138-03 WG2470390	30.77	45.2	44.9	45.6	44.8	45.0	44.9	44.4	44.9
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5

Unit 4 Beta Efficiencies Det 1-8

y = 0.000003x2 - 0.066x y = 0.0001x2 - 0.0498x + y = 0.00007x2 - 0.0559x y = 0.0001x2 - 0.0501x + y = 0.0006x2 - 0.0004x + y = 0.0002x2 - 0.0367x + y = 0.00004x2 - 0.0695x y = 0.000008x2 - 0.0632x +49.191

A	0.000003	0.0001	0.00007	0.0001	0.0006	0.0002	0.00004	0.000008
B	-0.066	-0.0498	-0.0559	-0.0501	-0.0004	-0.0367	-0.0695	-0.0632
C	49.22	48.106	48.098	49.339	47.611	48.89	50.012	49.191

SAMPLE ID	NET WT. mg	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF
=======	=====	=====	=====	=====	=====	=====	=====	=====	=====
BLANK WG2470390	29.66	47.3	46.7	46.5	47.9	48.1	48.0	48.0	47.3
LCS WG2470390	32.2	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
MS L1835110-03 WG2470390	29.55	47.3	46.7	46.5	47.9	48.1	48.0	48.0	47.3
MSD L1835110-03 WG2470390	29.8	47.3	46.7	46.5	47.9	48.1	48.0	48.0	47.3
DUP L1836138-02 WG2470390	29.67	47.3	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1835110-03 WG2470390	28.41	47.3	46.8	46.6	48.0	48.1	48.0	48.1	47.4
L1835110-05 WG2470390	28.71	47.3	46.8	46.6	48.0	48.1	48.0	48.0	47.4
L1835110-07 WG2470390	27.46	47.4	46.8	46.6	48.0	48.1	48.0	48.1	47.5
L1835110-09 WG2470390	28.39	47.3	46.8	46.6	48.0	48.1	48.0	48.1	47.4
L1835187-01 WG2470390	28.51	47.3	46.8	46.6	48.0	48.1	48.0	48.1	47.4
L1835187-03 WG2470390	28.82	47.3	46.8	46.5	48.0	48.1	48.0	48.0	47.4
L1835187-05 WG2470390	30.08	47.2	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1835187-06 WG2470390	30.01	47.2	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1835200-01 WG2470390	27.69	47.4	46.8	46.6	48.0	48.1	48.0	48.1	47.4
L1835200-02 WG2470390	29.08	47.3	46.7	46.5	48.0	48.1	48.0	48.0	47.4
L1835200-03 WG2470390	27.23	47.4	46.8	46.6	48.0	48.0	48.0	48.1	47.5
L1835489-01 WG2470390	32.16	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
L1835496-01 WG2470390	30.72	47.2	46.7	46.4	47.9	48.2	48.0	47.9	47.3
L1835679-01 WG2470390	29.76	47.3	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1835680-01 WG2470390	30.12	47.2	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1835703-01 WG2470390	26.71	47.5	46.8	46.7	48.1	48.0	48.1	48.2	47.5
L1835703-02 WG2470390	28	47.4	46.8	46.6	48.0	48.1	48.0	48.1	47.4
L1836138-01 WG2470390	29.71	47.3	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1836138-02 WG2470390	30.95	47.2	46.7	46.4	47.9	48.2	47.9	47.9	47.2
L1836138-03 WG2470390	30.77	47.2	46.7	46.4	47.9	48.2	48.0	47.9	47.3
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2

Unit 4 Beta Efficiencies Det 9-16

	y = 0.0001x2 - 0.0881x +	y = 0.000009x2 - 0.0693	y = 0.00006x2 - 0.077x +	y = 0.00001x2 - 0.064x +	y = 0.00008x2 - 0.0606x	y = 0.0001x2 - 0.0548x +	y = 0.00002x2 - 0.0667x	y = 0.0004x2 - 0.1078x +50.001
A	0.0001	0.000009	0.00006	0.00001	0.00008	0.0001	0.00002	0.0004
B	-0.0881	-0.0693	-0.077	-0.064	-0.0606	-0.0548	-0.0667	-0.1078
C	47.883	48.266	49.14	48.492	49.387	49.512	48.519	50.001

SAMPLE ID	WT. mg	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF
BLANK WG2470390	29.66	45.4	46.2	46.9	46.6	47.7	48.0	46.6	47.2
LCS WG2470390	32.2	45.1	46.0	46.7	46.4	47.5	47.9	46.4	46.9
MS L1835110-03 WG2470390	29.55	45.4	46.2	46.9	46.6	47.7	48.0	46.6	47.2
MSD L1835110-03 WG2470390	29.8	45.3	46.2	46.9	46.6	47.7	48.0	46.5	47.1
DUP L1836138-02 WG2470390	29.67	45.4	46.2	46.9	46.6	47.7	48.0	46.6	47.2
L1835110-03 WG2470390	28.41	45.5	46.3	47.0	46.7	47.7	48.0	46.6	47.3
L1835110-05 WG2470390	28.71	45.4	46.3	47.0	46.7	47.7	48.0	46.6	47.2
L1835110-07 WG2470390	27.46	45.5	46.4	47.1	46.7	47.8	48.1	46.7	47.3
L1835110-09 WG2470390	28.39	45.5	46.3	47.0	46.7	47.7	48.0	46.6	47.3
L1835187-01 WG2470390	28.51	45.5	46.3	47.0	46.7	47.7	48.0	46.6	47.3
L1835187-03 WG2470390	28.82	45.4	46.3	47.0	46.7	47.7	48.0	46.6	47.2
L1835187-05 WG2470390	30.08	45.3	46.2	46.9	46.6	47.6	48.0	46.5	47.1
L1835187-06 WG2470390	30.01	45.3	46.2	46.9	46.6	47.6	48.0	46.5	47.1
L1835200-01 WG2470390	27.69	45.5	46.4	47.1	46.7	47.8	48.1	46.7	47.3
L1835200-02 WG2470390	29.08	45.4	46.3	47.0	46.6	47.7	48.0	46.6	47.2
L1835200-03 WG2470390	27.23	45.6	46.4	47.1	46.8	47.8	48.1	46.7	47.4
L1835489-01 WG2470390	32.16	45.2	46.0	46.7	46.4	47.5	47.9	46.4	46.9
L1835496-01 WG2470390	30.72	45.3	46.1	46.8	46.5	47.6	47.9	46.5	47.1
L1835679-01 WG2470390	29.76	45.3	46.2	46.9	46.6	47.7	48.0	46.6	47.1
L1835680-01 WG2470390	30.12	45.3	46.2	46.9	46.6	47.6	48.0	46.5	47.1
L1835703-01 WG2470390	26.71	45.6	46.4	47.1	46.8	47.8	48.1	46.8	47.4
L1835703-02 WG2470390	28	45.5	46.3	47.0	46.7	47.8	48.1	46.7	47.3
L1836138-01 WG2470390	29.71	45.4	46.2	46.9	46.6	47.7	48.0	46.6	47.2
L1836138-02 WG2470390	30.95	45.3	46.1	46.8	46.5	47.6	47.9	46.5	47.0
L1836138-03 WG2470390	30.77	45.3	46.1	46.8	46.5	47.6	47.9	46.5	47.1
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0

Monthly Backgrounds 03/25 for G542 Unit 3

Sample ID	Alpha	Beta	LT	Det	Analyst	Start	End	ALPHA CPM	BETA CPM
BG01	85	1657	1000	3A-1		3/1/2025 1:01	3/1/2025 17:41	0.085	1.657
BG02	92	1690	1000	3A-2		3/1/2025 1:01	3/1/2025 17:41	0.092	1.69
BG03	68	1216	1000	3A-3		3/1/2025 1:01	3/1/2025 17:41	0.068	1.216
BG04	62	1701	1000	3A-4		3/1/2025 1:01	3/1/2025 17:41	0.062	1.701
BG05	82	1053	1000	3B-1		3/1/2025 1:01	3/1/2025 17:41	0.082	1.053
BG06	64	995	1000	3B-2		3/1/2025 1:01	3/1/2025 17:41	0.064	0.995
BG07	54	921	1000	3B-3		3/1/2025 1:01	3/1/2025 17:41	0.054	0.921
BG08	94	1956	1000	3B-4		3/1/2025 1:01	3/1/2025 17:41	0.094	1.956
BG09	101	1213	1000	3C-1		3/1/2025 1:01	3/1/2025 17:41	0.101	1.213
BG10	60	1558	1000	3C-2		3/1/2025 1:01	3/1/2025 17:41	0.06	1.558
BG11	62	1398	1000	3C-3		3/1/2025 1:01	3/1/2025 17:41	0.062	1.398
BG12	88	1075	1000	3C-4		3/1/2025 1:01	3/1/2025 17:41	0.088	1.075
BG13	162	1127	1000	3D-1		3/1/2025 1:01	3/1/2025 17:41	0.162	1.127
BG14	69	971	1000	3D-2		3/1/2025 1:01	3/1/2025 17:41	0.069	0.971
BG15	86	1054	1000	3D-3		3/1/2025 1:01	3/1/2025 17:41	0.086	1.054
BG16	159	1215	1000	3D-4		3/1/2025 1:01	3/1/2025 17:41	0.159	1.215

GAS COUNTER G542 Unit: 3 MONTH: Mar-25 BETA BACKGROUND
Beta Background

1 Count Time: 100 min

DATE	3A-1		3A-2		3A-3		3A-4		3B-1		3B-2		3B-3		3B-4		3C-1		3C-2		3C-3		3C-4		3D-1		3D-2		3D-3		3D-4	
	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM
1	165.7	**1.66**	169	**1.69**	121.6	**1.22**	170.1	**1.70**	105.3	**1.05**	99.5	**1.00**	92.1	**0.92**	195.6	**1.96**	121.3	**1.21**	155.8	**1.56**	139.8	**1.40**	107.5	**1.08**	112.7	**1.13**	97.1	**0.97**	105.4	**1.05**	121.5	**1.22**
2																																
3	154	**1.54**	161	**1.61**	94	**0.94**	159	**1.59**	93	**0.93**	78	**0.78**	77	**0.77**	158	**1.58**	102	**1.02**	143	**1.43**	161	**1.61**	115	**1.15**	124	**1.24**	92	**0.92**	106	**1.06**	102	**1.02**
4	170	**1.70**	165	**1.65**	122	**1.22**	137	**1.37**	102	**1.02**	107	**1.07**	98	**0.98**	174	**1.74**	122	**1.22**	161	**1.61**	141	**1.41**	103	**1.03**	104	**1.04**	98	**0.98**	102	**1.02**	106	**1.06**
5	164	**1.64**	156	**1.56**	168	**1.68**	147	**1.47**	94	**0.94**	98	**0.98**	91	**0.91**	185	**1.85**	106	**1.06**	166	**1.66**	182	**1.82**	108	**1.08**	96	**0.96**	95	**0.95**	114	**1.14**	122	**1.22**
6	141	**1.41**	155	**1.55**	116	**1.16**	147	**1.47**	81	**0.81**	86	**0.86**	69	**0.69**	181	**1.81**	117	**1.17**	158	**1.58**	159	**1.59**	96	**0.96**	116	**1.16**	90	**0.90**	100	**1.00**	106	**1.06**
7	161	**1.61**	173	**1.73**	121	**1.21**	167	**1.67**	90	**0.90**	105	**1.05**	97	**0.97**	153	**1.53**	142	**1.42**	146	**1.46**	154	**1.54**	96	**0.96**	81	**0.81**	92	**0.92**	117	**1.17**	115	**1.15**
8																																
9																																
10	131	**1.31**	177	**1.77**	113	**1.13**	147	**1.47**	101	**1.01**	121	**1.21**	79	**0.79**	154	**1.54**	103	**1.03**	169	**1.69**	135	**1.35**	90	**0.90**	100	**1.00**	102	**1.02**	99	**0.99**	127	**1.27**
11	137	**1.37**	144	**1.44**	107	**1.07**	148	**1.48**	104	**1.04**	102	**1.02**	95	**0.95**	185	**1.85**	107	**1.07**	184	**1.84**	148	**1.48**	83	**0.83**	109	**1.09**	105	**1.05**	100	**1.00**	127	**1.27**
12	194	**1.94**	159	**1.59**	130	**1.30**	170	**1.70**	107	**1.07**	108	**1.08**	113	**1.13**	189	**1.89**	145	**1.45**	161	**1.61**	155	**1.55**	94	**0.94**	130	**1.30**	130	**1.30**	106	**1.06**	126	**1.26**
13	177	**1.77**	156	**1.56**	168	**1.68**	170	**1.70**	78	**0.78**	102	**1.02**	97	**0.97**	168	**1.68**	115	**1.15**	159	**1.59**	166	**1.66**	114	**1.14**	115	**1.15**	90	**0.90**	110	**1.10**	105	**1.05**
14	166	**1.66**	175	**1.75**	223	**2.23**	142	**1.42**	117	**1.17**	133	**1.33**	95	**0.95**	209	**2.09**	160	**1.60**	159	**1.59**	150	**1.50**	112	**1.12**	100	**1.00**	123	**1.23**	108	**1.08**	129	**1.29**
15																																
16																																
17	159	**1.59**	146	**1.46**	108	**1.08**	142	**1.42**	102	**1.02**	103	**1.03**	81	**0.81**	156	**1.56**	92	**0.92**	137	**1.37**	144	**1.44**	87	**0.87**	119	**1.19**	111	**1.11**	106	**1.06**	120	**1.20**
18	142	**1.42**	180	**1.80**	132	**1.32**	159	**1.59**	82	**0.82**	109	**1.09**	89	**0.89**	187	**1.87**	106	**1.06**	157	**1.57**	140	**1.40**	87	**0.87**	101	**1.01**	109	**1.09**	93	**0.93**	134	**1.34**
19	163	**1.63**	173	**1.73**	137	**1.37**	151	**1.51**	96	**0.96**	112	**1.12**	92	**0.92**	196	**1.96**	124	**1.24**	143	**1.43**	133	**1.33**	105	**1.05**	109	**1.09**	100	**1.00**	100	**1.00**	93	**0.93**
20	145	**1.45**	182	**1.82**	135	**1.35**	145	**1.45**	94	**0.94**	97	**0.97**	98	**0.98**	184	**1.84**	125	**1.25**	156	**1.56**	136	**1.36**	100	**1.00**	134	**1.34**	118	**1.18**	118	**1.18**	132	**1.32**
21																																
22																																
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26																																
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28																																
29																																
30																																
31																																
average	**158**	**1.58**	**165**	**1.65**	**133**	**1.33**	**153**	**1.53**	**96**	**0.96**	**104**	**1.04**	**91**	**0.91**	**178**	**1.78**	**119**	**1.19**	**157**	**1.57**	**150**	**1.50**	**100**	**1.00**	**110**	**1.10**	**103**	**1.03**	**106**	**1.06**	**118**	**1.18**
std dev	17	0.17	12	0.12	32	0.32	11	0.11	11	0.11	13	0.13	11	0.11	17	0.17	18	0.18	12	0.12	14	0.14	10	0.10	14	0.14	12	0.12	7	0.07	12	0.12
UCL	**208**	**2.08**	**201**	**2.01**	**230**	**2.30**	**188**	**1.88**	**129**	**1.29**	**143**	**1.43**	**123**	**1.23**	**230**	**2.30**	**174**	**1.74**	**192**	**1.92**	**190**	**1.90**	**131**	**1.31**	**152**	**1.52**	**141**	**1.41**	**127**	**1.27**	**155**	**1.55**
UWL	**191**	**1.91**	**189**	**1.89**	**197**	**1.97**	**176**	**1.76**	**118**	**1.18**	**130**	**1.30**	**112**	**1.12**	**213**	**2.13**	**156**	**1.56**	**180**	**1.80**	**177**	**1.77**	**121**	**1.21**	**138**	**1.38**	**128**	**1.28**	**120**	**1.20**	**143**	**1.43**
LWL	**125**	**1.25**	**141**	**1.41**	**69**	**0.69**	**131**	**1.31**	**75**	**0.75**	**78**	**0.78**	**69**	**0.69**	**144**	**1.44**	**82**	**0.82**	**134**	**1.34**	**123**	**1.23**	**79**	**0.79**	**82**	**0.82**	**79**	**0.79**	**92**	**0.92**	**93**	**0.93**
LCL	**108**	**1.08**	**129**	**1.29**	**37**	**0.37**	**119**	**1.19**	**64**	**0.64**	**65**	**0.65**	**59**	**0.59**	**127**	**1.27**	**64**	**0.64**	**122**	**1.22**	**109**	**1.09**	**69**	**0.69**	**69**	**0.69**	**66**	**0.66**	**85**	**0.85**	**80**	**0.80**

Data From Previous Month

average	**164.062**	**1.641**	**164.605**	**1.646**	**145.748**	**1.457**	**150.876**	**1.509**	**95.686**	**0.957**	**94.919**	**0.949**	**94.857**	**0.949**	**173.057**	**1.731**	**112.657**	**1.127**	**151.819**	**1.518**	**142.524**	**1.425**	**102.038**	**1.020**	**102.619**	**1.026**	**100.029**	**1.000**	**107.238**	**1.072**	**112.357**	**1.124**
std dev	**14.454**	**0.145**	**14.718**	**0.147**	**41.007**	**0.410**	**15.785**	**0.158**	**10.130**	**0.101**	**14.482**	**0.145**	**9.977**	**0.100**	**17.627**	**0.176**	**11.150**	**0.111**	**16.027**	**0.160**	**13.845**	**0.138**	**11.389**	**0.114**	**11.805**	**0.118**	**13.853**	**0.139**	**14.650**	**0.146**	**13.670**	**0.137**
UCL	**207.424**	**2.074**	**208.758**	**2.088**	**268.769**	**2.688**	**198.230**	**1.982**	**126.075**	**1.261**	**138.365**	**1.384**	**124.789**	**1.248**	**225.939**	**2.259**	**146.106**	**1.461**	**199.899**	**1.999**	**184.058**	**1.841**	**136.206**	**1.362**	**138.035**	**1.380**	**141.586**	**1.416**	**151.187**	**1.512**	**153.367**	**1.534**
UWL	**192.970**	**1.930**	**194.040**	**1.940**	**227.762**	**2.278**	**182.445**	**1.824**	**115.945**	**1.159**	**123.883**	**1.239**	**114.812**	**1.148**	**208.311**	**2.083**	**134.956**	**1.350**	**183.873**	**1.839**	**170.213**	**1.702**	**124.817**	**1.248**	**126.230**	**1.262**	**127.734**	**1.277**	**136.538**	**1.365**	**139.697**	**1.397**
LWL	**135.154**	**1.352**	**135.169**	**1.352**	**63.733**	**0.637**	**119.307**	**1.193**	**75.426**	**0.754**	**65.955**	**0.660**	**74.903**	**0.749**	**137.803**	**1.378**	**90.358**	**0.904**	**119.766**	**1.198**	**114.835**	**1.148**	**79.259**	**0.793**	**79.008**	**0.790**	**72.323**	**0.723**	**77.939**	**0.779**	**85.017**	**0.850**
LCL	**120.700**	**1.207**	**120.452**	**1.205**	**22.726**	**0.227**	**103.522**	**1.035**	**65.296**	**0.653**	**51.473**	**0.515**	**64.926**	**0.649**	**120.176**	**1.202**	**79.208**	**0.792**	**103.739**	**1.037**	**100.990**	**1.010**	**67.870**	**0.679**	**67.203**	**0.672**	**58.471**	**0.585**	**63.289**	**0.633**	**71.348**	**0.713**

GAS COUNTER G542 Unit: 3 MONTH: March-25
Beta Source Check
23F05880

BETA Activity: **7861.05** **dpm** Count Time: **5** **min**

	3A-1		3A-2		3A-3		3A-4		3B-1		3B-2		3B-3		3B-4		3C-1		3C-2		3C-3		3C-4		3D-1		3D-2		3D-3		3D-4	
DATE	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF
1																																
2																																
3	17400	**44.3%**	18066	**46.0%**	17705	**45.0%**	17916	**45.6%**	18175	**46.2%**	16169	**41.1%**	17792	**45.3%**	17796	**45.3%**	16520	**42.0%**	17333	**44.1%**	18382	**46.8%**	16197	**41.2%**	18315	**46.6%**	17874	**45.5%**	18108	**46.1%**	18310	**46.6%**
4	16711	**42.5%**	18134	**46.1%**	16457	**41.9%**	17358	**44.2%**	16176	**41.2%**	18079	**46.0%**	18471	**47.0%**	17214	**43.8%**	17884	**45.5%**	18095	**46.0%**	16972	**43.2%**	18145	**46.2%**	17870	**45.5%**	18013	**45.8%**	17800	**45.3%**	16262	**41.4%**
5	17702	**45.0%**	18398	**46.8%**	16811	**42.8%**	16027	**40.8%**	18250	**46.4%**	17971	**45.7%**	16148	**41.1%**	17001	**43.3%**	16200	**41.2%**	17777	**45.2%**	17856	**45.4%**	18188	**46.3%**	18060	**45.9%**	15882	**40.4%**	16668	**42.4%**	18293	**46.5%**
6	16353	**41.6%**	18166	**46.2%**	16044	**40.8%**	17409	**44.3%**	16065	**40.9%**	17770	**45.2%**	17585	**44.7%**	17556	**44.7%**	18024	**45.9%**	16405	**41.7%**	18278	**46.5%**	17615	**44.8%**	17821	**45.3%**	17770	**45.2%**	16877	**42.9%**	17793	**45.3%**
7	17158	**43.7%**	18321	**46.6%**	16186	**41.2%**	16253	**41.4%**	18142	**46.2%**	18219	**46.4%**	18124	**46.1%**	16722	**42.5%**	18004	**45.8%**	18314	**46.6%**	16659	**42.4%**	17730	**45.1%**	16177	**41.2%**	16360	**41.6%**	17120	**43.6%**	17962	**45.7%**
8																																
9																																
10	17098	**43.5%**	18098	**46.0%**	16085	**40.9%**	18259	**46.5%**	16463	**41.9%**	17980	**45.7%**	16959	**43.1%**	17934	**45.6%**	16168	**41.1%**	18591	**47.3%**	18102	**46.1%**	18014	**45.8%**	16823	**42.8%**	16536	**42.1%**	17904	**45.6%**	17669	**45.0%**
11	16025	**40.8%**	18238	**46.4%**	15702	**39.9%**	16467	**41.9%**	17485	**44.5%**	18042	**45.9%**	17728	**45.1%**	17748	**45.2%**	17818	**45.3%**	18048	**45.9%**	16612	**42.3%**	17916	**45.6%**	17728	**45.1%**	18030	**45.9%**	15893	**40.4%**	17770	**45.2%**
12	15750	**40.1%**	16496	**42.0%**	17599	**44.8%**	16738	**42.6%**	18477	**47.0%**	17818	**45.3%**	17808	**45.3%**	17638	**44.9%**	16202	**41.2%**	18015	**45.8%**	18214	**46.3%**	18233	**46.4%**	18154	**46.2%**	16736	**42.6%**	16053	**40.8%**	16387	**41.7%**
13	17543	**44.6%**	18117	**46.1%**	17885	**45.5%**	16261	**41.4%**	17881	**45.5%**	17109	**43.5%**	18095	**46.0%**	16091	**40.9%**	18340	**46.7%**	16161	**41.1%**	18486	**47.0%**	17546	**44.6%**	17948	**45.7%**	16598	**42.2%**	17559	**44.7%**	17768	**45.2%**
14	16850	**42.9%**	18343	**46.7%**	15932	**40.5%**	18034	**45.9%**	16774	**42.7%**	17899	**45.5%**	17166	**43.7%**	17767	**45.2%**	18013	**45.8%**	17626	**44.8%**	16674	**42.4%**	18212	**46.3%**	15922	**40.5%**	18034	**45.9%**	17041	**43.4%**	16805	**42.8%**
15																																
16																																
17	17111	**43.5%**	18232	**46.4%**	17346	**44.1%**	17623	**44.8%**	18032	**45.9%**	17234	**43.8%**	16502	**42.0%**	17587	**44.7%**	17951	**45.7%**	17643	**44.9%**	18221	**46.4%**	18112	**46.1%**	16149	**41.1%**	18126	**46.1%**	15950	**40.6%**	17761	**45.2%**
18	17561	**44.7%**	18649	**47.4%**	16026	**40.8%**	17487	**44.5%**	18435	**46.9%**	16493	**42.0%**	18170	**46.2%**	17396	**44.3%**	17853	**45.4%**	16733	**42.6%**	17437	**44.4%**	17792	**45.3%**	16813	**42.8%**	18060	**45.9%**	15951	**40.6%**	18316	**46.6%**
19	17473	**44.5%**	18074	**46.0%**	16306	**41.5%**	18035	**45.9%**	17961	**45.7%**	16277	**41.4%**	18105	**46.1%**	17723	**45.1%**	18667	**47.5%**	16514	**42.0%**	17028	**43.3%**	18359	**46.7%**	18184	**46.3%**	17836	**45.4%**	17921	**45.6%**	16297	**41.5%**
20	17645	**44.9%**	16607	**42.3%**	16006	**40.7%**	17692	**45.0%**	16262	**41.4%**	17812	**45.3%**	17762	**45.2%**	16726	**42.6%**	18318	**46.6%**	18462	**47.0%**	18169	**46.2%**	17798	**45.3%**	18117	**46.1%**	16787	**42.7%**	17653	**44.9%**	16668	**42.4%**
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average	**17027**	**43.3%**	**17996**	**45.8%**	**16578**	**42.2%**	**17254.2**	**43.9%**	**17469.9**	**44.4%**	**17490.9**	**44.5%**	**17601.1**	**44.8%**	**17350**	**44.1%**	**17569**	**44.7%**	**17551**	**44.7%**	**17649**	**44.9%**	**17847**	**45.4%**	**17434**	**44.4%**	**17332**	**44.1%**	**17036**	**43.3%**	**17433**	**44.4%**
std dev	619	1.57%	632	0.02	747	0.02	758	0.02	913	0.02	709	0.02	673	0.02	534	0.01	884	2.25%	802	0.02	718	0.02	536	0.01	863	2.20%	795	0.02	819	0.021	776	0.020
UCL	**18883**	**48.0%**	**19891**	**50.6%**	**18819**	**47.9%**	**19527**	**49.7%**	**20209**	**51.4%**	**19617**	**49.9%**	**19621**	**49.9%**	**18951**	**48.2%**	**20219**	**51.4%**	**19956**	**50.8%**	**19802**	**50.4%**	**19456**	**49.5%**	**20023**	**50.9%**	**19716**	**50.2%**	**19493**	**49.6%**	**19760**	**50.3%**
UWL	**18265**	**46.5%**	**19260**	**49.0%**	**18072**	**46.0%**	**18770**	**47.8%**	**19296**	**49.1%**	**18909**	**48.1%**	**18948**	**48.2%**	**18418**	**46.9%**	**19336**	**49.2%**	**19155**	**48.7%**	**19084**	**48.6%**	**18919**	**48.1%**	**19160**	**48.7%**	**18922**	**48.1%**	**18674**	**47.5%**	**18984**	**48.3%**
LWL	**15790**	**40.2%**	**16732**	**42.6%**	**15084**	**38.4%**	**15739**	**40.0%**	**15644**	**39.8%**	**16073**	**40.9%**	**16254**	**41.4%**	**16282**	**41.4%**	**15802**	**40.2%**	**15948**	**40.6%**	**16214**	**41.3%**	**16774**	**42.7%**	**15708**	**40.0%**	**15742**	**40.0%**	**15397**	**39.2%**	**15882**	**40.4%**
LCL	**15171**	**38.6%**	**16100**	**41.0%**	**14337**	**36.5%**	**14981**	**38.1%**	**14731**	**37.5%**	**15364**	**39.1%**	**15581**	**39.6%**	**15749**	**40.1%**	**14918**	**38.0%**	**15146**	**38.5%**	**15497**	**39.4%**	**16238**	**41.3%**	**14845**	**37.8%**	**14947**	**38.0%**	**14578**	**37.1%**	**15106**	**38.4%**

Data From Previous Month

average	########	**43.06%**	########	**46.09%**	########	**42.43%**	########	**44.14%**	########	**44.46%**	########	**44.02%**	########	**43.88%**	########	**43.81%**	########	**45.04%**	########	**44.65%**	########	**45.60%**	########	**44.69%**	########	**44.22%**	########	**44.08%**	########	**43.28%**	########	**43.95%**
std dev	########	**1.89%**	########	**1.47%**	########	**1.97%**	########	**1.84%**	########	**1.75%**	########	**2.23%**	########	**2.17%**	########	**1.84%**	########	**1.65%**	########	**1.89%**	########	**1.47%**	########	**1.79%**	########	**1.71%**	########	**1.69%**	########	**1.62%**	########	**1.85%**
UCL	########	**48.73%**	########	**50.51%**	########	**48.33%**	########	**49.67%**	########	**49.72%**	########	**50.70%**	########	**50.39%**	########	**49.34%**	########	**49.98%**	########	**50.31%**	########	**50.00%**	########	**50.06%**	########	**49.35%**	########	**49.15%**	########	**48.14%**	########	**49.48%**
UWL	########	**46.84%**	########	**49.04%**	########	**46.37%**	########	**47.82%**	########	**47.96%**	########	**48.48%**	########	**48.22%**	########	**47.50%**	########	**48.34%**	########	**48.42%**	########	**48.53%**	########	**48.27%**	########	**47.64%**	########	**47.46%**	########	**46.52%**	########	**47.64%**
LWL	########	**39.27%**	########	**43.14%**	########	**38.50%**	########	**40.46%**	########	**40.95%**	########	**39.57%**	########	**39.55%**	########	**40.13%**	########	**41.75%**	########	**40.88%**	########	**42.67%**	########	**41.12%**	########	**40.79%**	########	**40.71%**	########	**40.04%**	########	**40.26%**
LCL	########	**37.38%**	########	**41.66%**	########	**36.53%**	########	**38.61%**	########	**39.19%**	########	**37.34%**	########	**37.38%**	########	**38.29%**	########	**40.10%**	########	**38.99%**	########	**41.20%**	########	**39.33%**	########	**39.08%**	########	**39.02%**	########	**38.42%**	########	**38.41%**

Monthly Backgrounds 03/01/25 for G542 Unit 4

Sample ID	Alpha	Beta	LT	Det	Analyst	Start	End	ALPHA CPM	BETA CPM
BK01	175	1148	1000	4A-1		2/28/2025 23:15	3/1/2025 15:55	0.175	1.148
BK02	129	1877	1000	4A-2		2/28/2025 23:15	3/1/2025 15:55	0.129	1.877
BK03	58	1470	1000	4A-3		2/28/2025 23:15	3/1/2025 15:55	0.058	1.47
BK04	46	1757	1000	4A-4		2/28/2025 23:15	3/1/2025 15:55	0.046	1.757
BK05	140	1973	1000	4B-1		2/28/2025 23:15	3/1/2025 15:55	0.14	1.973
BK06	74	1795	1000	4B-2		2/28/2025 23:15	3/1/2025 15:55	0.074	1.795
BK07	156	1747	1000	4B-3		2/28/2025 23:15	3/1/2025 15:55	0.156	1.747
BK08	78	2138	1000	4B-4		2/28/2025 23:15	3/1/2025 15:55	0.078	2.138
BK09	97	1915	1000	4C-1		2/28/2025 23:15	3/1/2025 15:55	0.097	1.915
BK10	169	1578	1000	4C-2		2/28/2025 23:15	3/1/2025 15:55	0.169	1.578
BK11	133	1631	1000	4C-3		2/28/2025 23:15	3/1/2025 15:55	0.133	1.631
BK12	43	1367	1000	4C-4		2/28/2025 23:15	3/1/2025 15:55	0.043	1.367
BK13	91	954	1000	4D-1		2/28/2025 23:15	3/1/2025 15:55	0.091	0.954
BK14	30	885	1000	4D-2		2/28/2025 23:15	3/1/2025 15:55	0.03	0.885
BK15	32	854	1000	4D-3		2/28/2025 23:15	3/1/2025 15:55	0.032	0.854
BK16	33	889	1000	4D-4		2/28/2025 23:15	3/1/2025 15:55	0.033	0.889

GAS COUNTER G542 Unit: 4 MONTH: Mar-25 BETA BACKGROUND
Beta Background

1 Count Time: 100 min

	4A-1		4A-2		4A-3		4A-4		4B-1		4B-2		4B-3		4B-4		4C-1		4C-2		4C-3		4C-4		4D-1		4D-2		4D-3		4D-4	
DATE	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM
1	114.8	**1.15**	187.7	**1.88**	147	**1.47**	175.7	**1.76**	197.3	**1.97**	179.5	**1.80**	174.7	**1.75**	213.8	**2.14**	191.5	**1.92**	157.8	**1.58**	163.1	**1.63**	136.7	**1.37**	95.4	**0.95**	88.5	**0.89**	85.4	**0.85**	88.9	**0.89**
2																																
3	106	**1.06**	178	**1.78**	120	**1.20**	178	**1.78**	186	**1.86**	177	**1.77**	191	**1.91**	213	**2.13**	178	**1.78**	179	**1.79**	161	**1.61**	156	**1.56**	94	**0.94**	81	**0.81**	71	**0.71**	93	**0.93**
4	98	**0.98**	201	**2.01**	140	**1.40**	157	**1.57**	183	**1.83**	170	**1.70**	186	**1.86**	213	**2.13**	219	**2.19**	169	**1.69**	161	**1.61**	136	**1.36**	89	**0.89**	125	**1.25**	87	**0.87**	77	**0.77**
5	121	**1.21**	210	**2.10**	155	**1.55**	182	**1.82**	208	**2.08**	173	**1.73**	191	**1.91**	224	**2.24**	211	**2.11**	177	**1.77**	169	**1.69**	166	**1.66**	93	**0.93**	95	**0.95**	108	**1.08**	87	**0.87**
6	121	**1.21**	163	**1.63**	133	**1.33**	170	**1.70**	185	**1.85**	163	**1.63**	197	**1.97**	188	**1.88**	192	**1.92**	174	**1.74**	182	**1.82**	132	**1.32**	106	**1.06**	80	**0.80**	87	**0.87**	95	**0.95**
7	137	**1.37**	179	**1.79**	138	**1.38**	174	**1.74**	200	**2.00**	198	**1.98**	190	**1.90**	232	**2.32**	195	**1.95**	184	**1.84**	151	**1.51**	156	**1.56**	124	**1.24**	102	**1.02**	93	**0.93**	91	**0.91**
8																																
9																																
10	98	**0.98**	186	**1.86**	132	**1.32**	197	**1.97**	163	**1.63**	172	**1.72**	171	**1.71**	220	**2.20**	196	**1.96**	177	**1.77**	174	**1.74**	107	**1.07**	109	**1.09**	86	**0.86**	73	**0.73**	87	**0.87**
11	131	**1.31**	185	**1.85**	146	**1.46**	156	**1.56**	177	**1.77**	165	**1.65**	194	**1.94**	225	**2.25**	200	**2.00**	166	**1.66**	178	**1.78**	156	**1.56**	123	**1.23**	102	**1.02**	96	**0.96**	86	**0.86**
12	117	**1.17**	177	**1.77**	128	**1.28**	162	**1.62**	182	**1.82**	194	**1.94**	203	**2.03**	183	**1.83**	203	**2.03**	166	**1.66**	169	**1.69**	165	**1.65**	126	**1.26**	103	**1.03**	116	**1.16**	103	**1.03**
13	132	**1.32**	213	**2.13**	121	**1.21**	197	**1.97**	180	**1.80**	207	**2.07**	186	**1.86**	206	**2.06**	209	**2.09**	203	**2.03**	157	**1.57**	136	**1.36**	112	**1.12**	93	**0.93**	89	**0.89**	99	**0.99**
14	145	**1.45**	198	**1.98**	173	**1.73**	168	**1.68**	202	**2.02**	186	**1.86**	192	**1.92**	228	**2.28**	213	**2.13**	189	**1.89**	164	**1.64**	150	**1.50**	113	**1.13**	96	**0.96**	101	**1.01**	109	**1.09**
15																																
16																																
17	111	**1.11**	190	**1.90**	133	**1.33**	172	**1.72**	173	**1.73**	200	**2.00**	175	**1.75**	208	**2.08**	176	**1.76**	184	**1.84**	156	**1.56**	141	**1.41**	97	**0.97**	111	**1.11**	100	**1.00**	95	**0.95**
18	122	**1.22**	172	**1.72**	133	**1.33**	182	**1.82**	179	**1.79**	185	**1.85**	179	**1.79**	189	**1.89**	178	**1.78**	183	**1.83**	184	**1.84**	156	**1.56**	115	**1.15**	82	**0.82**	79	**0.79**	91	**0.91**
19	126	**1.26**	167	**1.67**	145	**1.45**	159	**1.59**	183	**1.83**	163	**1.63**	186	**1.86**	186	**1.86**	236	**2.36**	169	**1.69**	154	**1.54**	149	**1.49**	98	**0.98**	97	**0.97**	74	**0.74**	109	**1.09**
20	135	**1.35**	179	**1.79**	158	**1.58**	179	**1.79**	200	**2.00**	168	**1.68**	168	**1.68**	189	**1.89**	194	**1.94**	173	**1.73**	176	**1.76**	161	**1.61**	114	**1.14**	84	**0.84**	105	**1.05**	99	**0.99**
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average	**121**	1.21	**186**	1.86	**140**	1.40	**174**	1.74	**187**	1.87	**180**	1.80	**186**	1.86	**208**	2.08	**199**	1.99	**177**	1.77	**167**	1.67	**147**	1.47	**107**	1.07	**95**	0.95	**91**	0.91	**94**	0.94
std dev	14	0.14	15	0.15	14	0.14	13	0.13	12	0.12	14	0.14	10	0.10	17	0.17	16	0.16	11	0.11	10	0.10	16	0.16	12	0.12	12	0.12	13	0.13	9	0.09
UCL	**163**	1.63	**230**	2.30	**183**	1.83	**212**	2.12	**224**	2.24	**223**	2.23	**216**	2.16	**258**	2.58	**249**	2.49	**210**	2.10	**198**	1.98	**194**	1.94	**144**	1.44	**132**	1.32	**131**	1.31	**120**	1.20
UWL	**149**	1.49	**215**	2.15	**169**	1.69	**199**	1.99	**211**	2.11	**209**	2.09	**206**	2.06	**242**	2.42	**232**	2.32	**199**	1.99	**187**	1.87	**178**	1.78	**132**	1.32	**120**	1.20	**118**	1.18	**112**	1.12
LWL	**93**	0.93	**156**	1.56	**112**	1.12	**148**	1.48	**162**	1.62	**151**	1.51	**165**	1.65	**174**	1.74	**167**	1.67	**155**	1.55	**146**	1.46	**116**	1.16	**83**	0.83	**70**	0.70	**64**	0.64	**76**	0.76
LCL	**79**	0.79	**142**	1.42	**97**	0.97	**136**	1.36	**149**	1.49	**137**	1.37	**155**	1.55	**157**	1.57	**150**	1.50	**143**	1.43	**135**	1.35	**100**	1.00	**71**	0.71	**58**	0.58	**51**	0.51	**68**	0.68

Data From Previous Month

average	**121**	**1.212**	**176**	**1.760**	**139**	**1.390**	**167**	**1.665**	**191**	**1.911**	**170**	**1.696**	**182**	**1.818**	**207**	**2.071**	**196**	**1.955**	**169**	**1.689**	**161**	**1.611**	**140**	**1.397**	**100**	**1.004**	**96**	**0.956**	**92**	**0.917**	**92**	**0.918**
std dev	**11**	**0.112**	**15**	**0.151**	**12**	**0.124**	**16**	**0.155**	**16**	**0.157**	**14**	**0.135**	**18**	**0.179**	**16**	**0.165**	**17**	**0.173**	**13**	**0.128**	**12**	**0.123**	**12**	**0.122**	**15**	**0.152**	**13**	**0.132**	**15**	**0.149**	**12**	**0.116**
UCL	**155**	**1.549**	**221**	**2.212**	**176**	**1.763**	**213**	**2.131**	**238**	**2.382**	**210**	**2.102**	**236**	**2.356**	**257**	**2.565**	**247**	**2.473**	**207**	**2.072**	**198**	**1.979**	**176**	**1.764**	**146**	**1.462**	**135**	**1.352**	**136**	**1.364**	**127**	**1.266**
UWL	**144**	**1.437**	**206**	**2.061**	**164**	**1.638**	**198**	**1.976**	**223**	**2.225**	**197**	**1.967**	**218**	**2.176**	**240**	**2.401**	**230**	**2.301**	**194**	**1.944**	**186**	**1.856**	**164**	**1.642**	**131**	**1.309**	**122**	**1.220**	**122**	**1.215**	**115**	**1.150**
LWL	**99**	**0.988**	**146**	**1.458**	**114**	**1.142**	**135**	**1.354**	**160**	**1.597**	**143**	**1.425**	**146**	**1.460**	**174**	**1.741**	**161**	**1.610**	**143**	**1.433**	**137**	**1.366**	**115**	**1.152**	**70**	**0.699**	**69**	**0.692**	**62**	**0.619**	**69**	**0.687**
LCL	**88**	**0.876**	**131**	**1.307**	**102**	**1.017**	**120**	**1.199**	**144**	**1.440**	**129**	**1.290**	**128**	**1.281**	**158**	**1.576**	**144**	**1.437**	**130**	**1.305**	**124**	**1.244**	**103**	**1.029**	**55**	**0.547**	**56**	**0.560**	**47**	**0.470**	**57**	**0.571**

GAS COUNTER G542 Unit: 4 MONTH: March-25
Beta Source Check
23F05880

BETA Activity: **7861.05** **dpm** Count Time: **5** **min**

	4A-1		4A-2		4A-3		4A-4		4B-1		4B-2		4B-3		4B-4		4C-1		4C-2		4C-3		4C-4		4D-1		4D-2		4D-3		4D-4	
DATE	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF
1																																
2																																
3	16118	**41.0%**	17790	**45.3%**	15980	**40.7%**	16945	**43.1%**	16156	**41.1%**	18079	**46.0%**	18024	**45.9%**	17471	**44.4%**	16792	**42.7%**	17356	**44.2%**	17050	**43.4%**	17348	**44.1%**	16425	**41.8%**	18115	**46.1%**	16412	**41.8%**	16868	**42.9%**
4	16239	**41.3%**	17927	**45.6%**	17361	**44.2%**	16541	**42.1%**	17511	**44.6%**	18213	**46.3%**	18026	**45.9%**	17211	**43.8%**	16899	**43.0%**	16864	**42.9%**	15979	**40.7%**	17652	**44.9%**	17523	**44.6%**	17117	**43.5%**	17851	**45.4%**	17828	**45.4%**
5	16276	**41.4%**	17371	**44.2%**	17489	**44.5%**	18321	**46.6%**	16849	**42.9%**	16500	**42.0%**	18316	**46.6%**	17902	**45.5%**	15853	**40.3%**	17447	**44.4%**	17851	**45.4%**	17761	**45.2%**	17239	**43.9%**	18213	**46.3%**	16151	**41.1%**	17462	**44.4%**
6	16009	**40.7%**	16597	**42.2%**	17519	**44.6%**	16390	**41.7%**	16125	**41.0%**	18384	**46.8%**	18504	**47.1%**	17834	**45.4%**	16382	**41.7%**	17125	**43.6%**	17446	**44.4%**	17691	**45.0%**	17934	**45.6%**	18211	**46.3%**	16255	**41.4%**	17391	**44.2%**
7	17441	**44.4%**	18153	**46.2%**	16185	**41.2%**	18539	**47.2%**	16458	**41.9%**	18387	**46.8%**	18133	**46.1%**	17672	**45.0%**	15432	**39.3%**	17180	**43.7%**	15745	**40.1%**	17559	**44.7%**	16114	**41.0%**	17910	**45.6%**	17738	**45.1%**	17791	**45.3%**
8																																
9																																
10	17457	**44.4%**	15856	**40.3%**	17593	**44.8%**	18328	**46.6%**	17939	**45.6%**	17768	**45.2%**	16777	**42.7%**	17109	**43.5%**	16324	**41.5%**	16913	**43.0%**	15674	**39.9%**	18048	**45.9%**	16022	**40.8%**	17123	**43.6%**	17474	**44.5%**	17930	**45.6%**
11	17418	**44.3%**	17351	**44.1%**	17418	**44.3%**	17703	**45.0%**	17798	**45.3%**	18058	**45.9%**	16378	**41.7%**	18144	**46.2%**	16514	**42.0%**	17194	**43.7%**	17270	**43.9%**	17576	**44.7%**	15983	**40.7%**	16094	**40.9%**	16610	**42.3%**	17317	**44.1%**
12	17221	**43.8%**	17910	**45.6%**	15701	**39.9%**	18433	**46.9%**	17378	**44.2%**	17802	**45.3%**	18569	**47.2%**	17624	**44.8%**	15763	**40.1%**	15674	**39.9%**	15988	**40.7%**	18067	**46.0%**	17265	**43.9%**	16310	**41.5%**	18178	**46.2%**	17895	**45.5%**
13	17647	**44.9%**	17579	**44.7%**	17378	**44.2%**	16308	**41.5%**	17264	**43.9%**	16469	**41.9%**	17845	**45.4%**	17037	**43.3%**	16794	**42.7%**	15765	**40.1%**	17508	**44.5%**	17926	**45.6%**	17635	**44.9%**	17927	**45.6%**	17976	**45.7%**	16244	**41.3%**
14	17668	**45.0%**	17673	**45.0%**	17310	**44.0%**	16501	**42.0%**	17887	**45.5%**	18417	**46.9%**	16491	**42.0%**	17906	**45.6%**	15366	**39.1%**	15748	**40.1%**	17538	**44.6%**	17551	**44.7%**	17681	**45.0%**	16693	**42.5%**	17913	**45.6%**	17489	**44.5%**
15																																
16																																
17	15928	**40.5%**	16544	**42.1%**	16148	**41.1%**	18223	**46.4%**	17593	**44.8%**	17765	**45.2%**	17816	**45.3%**	17784	**45.2%**	16603	**42.2%**	15660	**39.8%**	17653	**44.9%**	17290	**44.0%**	17347	**44.1%**	16319	**41.5%**	16042	**40.8%**	17081	**43.5%**
18	17253	**43.9%**	15736	**40.0%**	15718	**40.0%**	17789	**45.3%**	18027	**45.9%**	16419	**41.8%**	17259	**43.9%**	17366	**44.2%**	17171	**43.7%**	16951	**43.1%**	17666	**44.9%**	17581	**44.7%**	16202	**41.2%**	18323	**46.6%**	17676	**45.0%**	16041	**40.8%**
19	17687	**45.0%**	16418	**41.8%**	15980	**40.7%**	16550	**42.1%**	17490	**44.5%**	17963	**45.7%**	17669	**45.0%**	18212	**46.3%**	17118	**43.6%**	17009	**43.3%**	15612	**39.7%**	17743	**45.1%**	17293	**44.0%**	18267	**46.5%**	17762	**45.2%**	17748	**45.2%**
20	15825	**40.3%**	17499	**44.5%**	16102	**41.0%**	18057	**45.9%**	17678	**45.0%**	18453	**46.9%**	18020	**45.8%**	18131	**46.1%**	15169	**38.6%**	16220	**41.3%**	17386	**44.2%**	17157	**43.7%**	16946	**43.1%**	17974	**45.7%**	17730	**45.1%**	18083	**46.0%**
21																																
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average	**16871**	**42.9%**	**17172**	**43.7%**	**16706**	**42.5%**	**17473.4**	**44.5%**	**17296.6**	**44.0%**	**17762.6**	**45.2%**	**17701.9**	**45.0%**	**17672**	**45.0%**	**16299**	**41.5%**	**16650**	**42.4%**	**16883**	**43.0%**	**17639**	**44.9%**	**16972**	**43.2%**	**17471**	**44.4%**	**17269**	**43.9%**	**17369**	**44.2%**
std dev	743	1.89%	791	0.02	775	0.02	879	0.02	647	0.02	743	0.02	711	0.02	386	0.01	669	1.70%	679	0.02	864	0.02	266	0.01	684	1.74%	830	0.02	780	0.020	622	0.016
UCL	**19101**	**48.6%**	**19546**	**49.7%**	**19030**	**48.4%**	**20110**	**51.2%**	**19239**	**48.9%**	**19993**	**50.9%**	**19835**	**50.5%**	**18831**	**47.9%**	**18304**	**46.6%**	**18686**	**47.5%**	**19475**	**49.5%**	**18438**	**46.9%**	**19024**	**48.4%**	**19960**	**50.8%**	**19610**	**49.9%**	**19234**	**48.9%**
UWL	**18357**	**46.7%**	**18754**	**47.7%**	**18255**	**46.4%**	**19231**	**48.9%**	**18591**	**47.3%**	**19250**	**49.0%**	**19124**	**48.7%**	**18444**	**46.9%**	**17636**	**44.9%**	**18007**	**45.8%**	**18611**	**47.3%**	**18172**	**46.2%**	**18340**	**46.7%**	**19131**	**48.7%**	**18830**	**47.9%**	**18612**	**47.4%**
LWL	**15384**	**39.1%**	**15589**	**39.7%**	**15157**	**38.6%**	**15716**	**40.0%**	**16002**	**40.7%**	**16276**	**41.4%**	**16280**	**41.4%**	**16899**	**43.0%**	**14961**	**38.1%**	**15293**	**38.9%**	**15156**	**38.6%**	**17107**	**43.5%**	**15604**	**39.7%**	**15812**	**40.2%**	**15709**	**40.0%**	**16126**	**41.0%**
LCL	**14640**	**37.2%**	**14798**	**37.6%**	**14382**	**36.6%**	**14837**	**37.7%**	**15355**	**39.1%**	**15532**	**39.5%**	**15569**	**39.6%**	**16513**	**42.0%**	**14293**	**36.4%**	**14615**	**37.2%**	**14292**	**36.4%**	**16840**	**42.8%**	**14920**	**38.0%**	**14982**	**38.1%**	**14928**	**38.0%**	**15504**	**39.4%**

Data From Previous Month

average	**16832**	**42.74%**	**17313**	**43.96%**	**17196**	**43.67%**	**17610**	**44.72%**	**17356**	**44.08%**	**17633**	**44.78%**	**17473**	**44.37%**	**17523**	**44.50%**	**16578**	**42.10%**	**16676**	**42.35%**	**16847**	**42.78%**	**17726**	**45.01%**	**17166**	**43.59%**	**17425**	**44.25%**	**17333**	**44.02%**	**17428**	**44.26%**
std dev	**804**	**2.04%**	**552**	**1.40%**	**490**	**1.24%**	**773**	**1.96%**	**667**	**1.69%**	**831**	**2.11%**	**860**	**2.18%**	**685**	**1.74%**	**604**	**1.53%**	**826**	**2.10%**	**792**	**2.01%**	**668**	**1.70%**	**670**	**1.70%**	**693**	**1.76%**	**787**	**2.00%**	**779**	**1.98%**
UCL	**19244**	**48.87%**	**18967**	**48.17%**	**18666**	**47.40%**	**19928**	**50.61%**	**19356**	**49.15%**	**20126**	**51.11%**	**20052**	**50.92%**	**19578**	**49.72%**	**18389**	**46.70%**	**19152**	**48.64%**	**19222**	**48.81%**	**19729**	**50.10%**	**19177**	**48.70%**	**19504**	**49.53%**	**19694**	**50.01%**	**19765**	**50.19%**
UWL	**18440**	**46.83%**	**18416**	**46.77%**	**18176**	**46.16%**	**19155**	**48.64%**	**18690**	**47.46%**	**19295**	**49.00%**	**19192**	**48.74%**	**18893**	**47.98%**	**17785**	**45.17%**	**18327**	**46.54%**	**18431**	**46.80%**	**19061**	**48.41%**	**18507**	**47.00%**	**18811**	**47.77%**	**18907**	**48.01%**	**18986**	**48.21%**
LWL	**15225**	**38.66%**	**16210**	**41.16%**	**16215**	**41.18%**	**16065**	**40.80%**	**16023**	**40.69%**	**15971**	**40.56%**	**15754**	**40.01%**	**16153**	**41.02%**	**15370**	**39.03%**	**15025**	**38.15%**	**15264**	**38.76%**	**16390**	**41.62%**	**15826**	**40.19%**	**16039**	**40.73%**	**15759**	**40.02%**	**15870**	**40.30%**
LCL	**14421**	**36.62%**	**15658**	**39.76%**	**15725**	**39.93%**	**15293**	**38.83%**	**15357**	**39.00%**	**15140**	**38.45%**	**14894**	**37.82%**	**15468**	**39.28%**	**14766**	**37.50%**	**14199**	**36.06%**	**14473**	**36.75%**	**15723**	**39.93%**	**15155**	**38.49%**	**15346**	**38.97%**	**14971**	**38.02%**	**15092**	**38.32%**

G542 Unit 3
Calibration 02/03/25

	High Voltage	Changed?	Chi Sq Passed?	Notes
A Drawer	1780	Y	Y	
B Drawer	1780	Y	Y	
C Drawer	1760	Y	Y	
D Drawer	1780	Y	Y	

Comments:

After initial High Voltage(HV) run, windows changed and HV rerun. HV and Chi Squared data shown is from after window change.

Collected by: _____ Date: 2/10/25

Approved by: _____ Date: 2/10/25

OOS= Detector taken Out of Service

Detector Names Unit 3:

Numerical:	Instrument:	PACE:
1	1A	3A-1
2	1B	3A-2
3	1C	3A-3
4	1D	3A-4
5	2A	3B-1
6	2B	3B-2
7	2C	3B-3
8	2D	3B-4
9	3A	3C-1
10	3B	3C-2
11	3C	3C-3
12	3D	3C-4
13	4A	3D-1
14	4B	3D-2
15	4C	3D-3
16	4D	3D-4

Standards Used: 23F04831 23F04839
23F04841 23F04832
24B19729 24B19731
24B19730 24B19732

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Sr-90
124007
ESC51613
22J11029

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	01-Jul-24
PREP:	13-Sep-22

Ao =	940.91	nCi				
N =	0.02					
T(1/2) =	28.60	years				
T =	1.85	years				
dilution =	1000.00					
A =	899.65	nCi	SR90/Y90			
A =	1997.22	dpm/ml	3994.4459	399.4446		
A =	899.65	pCi/ml	1799.3			
A =	899.65	+/-	16.207189	pCi/ml	3994.445911	
						11983.33773

Uncertainty	0.0173
Weight	0.05%
Volume (1000 ml)	0.50%

CSU 1.80%

DECAY CALCUALTION

Th230 Source
124007
ESC51614
22I13361

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 25-Aug-22
DATE OF CALIBRATION 01-Feb-25

Ao	=	1011.73	nCi	
N	=	0.00		
T(1/2)	=	77000.00	years	28105000
T	=	2.44	years	
dilution	=	1000.00		
A	=	1011.71	nCi	
A	=	2246.00	dpm/ml	22459.977
A	**=**	1011.71	pCi/ml	

Uncertainty	3.16%
Weight	0.05%
Volume	0.03%
CSU	3.16%

					pCi/l
Activity	**1011.7**	**+/-**	**32.0**	**pCi/ml**	1011711

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Sr-90
124007
ESC51613
22J11029

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	01-Jul-24
PREP:	13-Sep-22

Ao =	940.91	nCi				
N =	0.02					
T(1/2) =	28.60	years				
T =	1.85	years				
dilution =	1000.00					
A =	899.65	nCi	SR90/Y90			
A =	1997.22	dpm/ml	3994.4459	399.4446		
A =	899.65	pCi/ml	1799.3			
A =	899.65	+/-	16.207189	pCi/ml	3994.445911	
						11983.33773

Uncertainty	0.0173
Weight	0.05%
Volume (1000 ml)	0.50%

CSU 1.80%

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer A

2/3/2025

3A-1= Det1= 1A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	873	872	1	
1520	1038	1038	0	
1540	1340	1340	0	
1560	1559	1558	1	
1580	1788	1788	0	
1600	2067	2066	1	
1620	2282	2281	1	
1640	2610	2608	2	
1660	2812	2811	1	
1680	3010	3009	1	
1700	3244	3244	0	
1720	3265	3264	1	
1740	3348	3346	2	
1760	3369	3369	0	0.00%
1780	3492	3491	1	0.03%
1800	3513	3507	6	0.17%
1820	3427	3417	10	
1840	3469	3459	10	
1860	3553	3546	7	
1880	3583	3576	7	
1900	3452	3442	10	
1920	3479	3469	10	
1940	3493	3487	6	
1960	3584	3576	8	
1980	3471	3458	13	
2000	3584	3575	9	

Slope Calc:			
1740	7.80%	263	
1760	4.50%	153	
1780	3.29%	113	
1800	5.11%	177	

3A-2= Det2= 1B

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	2043	2043	0	
1520	2258	2257	1	
1540	2588	2587	1	
1560	2798	2797	1	
1580	2992	2992	0	
1600	3165	3165	0	
1620	3233	3231	2	
1640	3232	3231	1	
1660	3342	3341	1	
1680	3564	3563	1	
1700	3312	3312	0	
1720	3451	3448	3	
1740	3533	3531	2	
1760	3514	3501	13	0.37%
1780	3500	3482	18	0.52%
1800	3547	3488	59	1.69%
1820	3528	3439	89	
1840	3564	3479	85	
1860	3561	3487	74	
1880	3627	3533	94	
1900	3590	3499	91	
1920	3558	3476	82	
1940	3509	3435	74	
1960	3465	3394	71	
1980	3477	3394	83	
2000	3497	3425	72	

1740	5.09%	176	
1760	0.26%	9	
1780	1.49%	52	
1800	0.40%	14	

3A-3= Det3= 1C

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1037	1037	0	
1520	1293	1293	0	
1540	1548	1548	0	
1560	1776	1775	1	
1580	2099	2098	1	
1600	2261	2261	0	
1620	2610	2608	2	
1640	2768	2767	1	
1660	2953	2953	0	
1680	3112	3112	0	
1700	3235	3234	1	
1720	3367	3367	0	
1740	3502	3498	4	
1760	3581	3579	2	0.06%
1780	3447	3445	2	0.06%
1800	3579	3560	19	0.53%
1820	3601	3570	31	
1840	3505	3480	25	
1860	3498	3478	20	
1880	3614	3595	19	
1900	3566	3544	22	
1920	3483	3462	21	
1940	3694	3671	23	
1960	3583	3563	20	
1980	3561	3543	18	
2000	3604	3575	29	

1740	9.46%	326	
1760	5.79%	203	
1780	0.51%	18	
1800	2.87%	101	

3A-4= Det4= 1D

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1115	1115	0	
1520	1318	1318	0	
1540	1501	1501	0	
1560	1818	1816	2	
1580	2047	2047	0	
1600	2160	2160	0	
1620	2418	2418	0	
1640	2656	2655	1	
1660	2794	2794	0	
1680	2989	2988	1	
1700	3037	3036	1	
1720	3135	3133	2	
1740	3215	3211	4	
1760	3102	3100	2	0.06%
1780	3294	3293	1	0.03%
1800	3314	3313	1	0.03%
1820	3340	3339	1	
1840	3268	3268	0	
1860	3295	3291	4	
1880	3368	3368	0	
1900	3260	3254	6	
1920	3169	3167	2	
1940	3368	3366	2	
1960	3341	3338	3	
1980	3277	3274	3	
2000	3307	3304	3	

1740	8.71%	277	
1760	6.37%	206	
1780	1.75%	57	
1800	5.85%	191	

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer B

2/3/2025

3B-1=	Det5=	2A				3B-2=	Det6=	2B				3B-3=	Det7=	2C				3B-4=	Det8=	2D			
	Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
	1500	1694	1693	1			1500	1556	1556	0			1500	1880	1880	0			1500	1353	1353	0	
	1520	1907	1907	0			1520	1748	1748	0			1520	2172	2172	0			1520	1608	1608	0	
	1540	2148	2147	1			1540	2121	2121	0			1540	2501	2501	0			1540	1823	1821	2	
	1560	2514	2513	1			1560	2269	2269	0			1560	2740	2739	1			1560	2099	2098	1	
	1580	2720	2720	0			1580	2616	2615	1			1580	2867	2867	0			1580	2441	2441	0	
	1600	2985	2984	1			1600	2751	2751	0			1600	3012	3012	0			1600	2473	2472	1	
	1620	3162	3161	1			1620	3019	3019	0			1620	3238	3236	2			1620	2689	2688	1	
	1640	3251	3249	2			1640	2966	2965	1			1640	3322	3321	1			1640	2933	2932	1	
	1660	3399	3398	1			1660	3061	3061	0			1660	3405	3404	1			1660	2993	2992	1	
	1680	3480	3480	0			1680	3257	3255	2			1680	3424	3422	2			1680	3141	3141	0	
	1700	3507	3505	2			1700	3299	3298	1			1700	3526	3526	0			1700	3103	3103	0	
	1720	3721	3719	2			1720	3285	3284	1			1720	3508	3507	1			1720	3142	3141	1	
	1740	3637	3636	1			1740	3386	3385	1			1740	3557	3552	5			1740	3174	3172	2	
	1760	3719	3704	15	0.42%		1760	3425	3424	1	0.03%		1760	3530	3525	5	0.14%		1760	3243	3241	2	0.06%
	1780	3643	3613	30	0.83%		1780	3475	3472	3	0.09%		1780	3598	3583	15	0.42%		1780	3348	3339	9	0.27%
	1800	3672	3613	59			1800	3416	3397	19			1800	3685	3635	50			1800	3206	3187	19	
	1820	3697	3619	78			1820	3460	3439	21			1820	3753	3697	56			1820	3385	3365	20	
	1840	3801	3719	82			1840	3367	3357	10			1840	3606	3552	54			1840	3282	3253	29	
	1860	3752	3686	66			1860	3472	3454	18			1860	3744	3697	47			1860	3288	3255	33	
	1880	3804	3701	103			1880	3548	3532	16			1880	3722	3669	52			1880	3238	3222	16	
	1900	3737	3666	71			1900	3488	3466	22			1900	3705	3651	54			1900	3263	3239	24	
	1920	3849	3766	83			1920	3436	3420	16			1920	3691	3646	45			1920	3252	3228	24	
	1940	3700	3622	78			1940	3553	3540	13			1940	3710	3655	55			1940	3277	3248	29	
	1960	3805	3731	74			1960	3368	3353	15			1960	3708	3656	52			1960	3406	3386	20	
	1980	3821	3740	81			1980	3495	3471	24			1980	3724	3675	49			1980	3287	3260	27	
	2000	3798	3716	82			2000	3415	3397	18			2000	3757	3696	61			2000	3213	3193	20	
Slope Calc:	1760	2.27%	83				1760	4.56%	155				1760	5.30%	190				1760	6.91%	224		
	1780	0.49%	18				1780	0.82%	28				1780	0.00%	0				1780	2.49%	81		
	1800	2.41%	88				1800	0.88%	30				1800	4.76%	172				1800	0.43%	14		
	1820	1.45%	53				1820	1.74%	60				1820	2.36%	86				1820	3.58%	117		

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer C

2/3/2025

3C-1= Det9= 3A

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1721	1720	1	
1520	2063	2063	0	
1540	2349	2349	0	
1560	2662	2661	1	
1580	2835	2835	0	
1600	3055	3054	1	
1620	3243	3243	0	
1640	3320	3319	1	
1660	3529	3529	0	
1680	3460	3459	1	
1700	3586	3584	2	
1720	3712	3708	4	
1740	3677	3677	0	
1760	3616	3609	7	0.19%
1780	3809	3788	21	0.55%
1800	3798	3758	40	1.06%
1820	3814	3750	64	
1840	3632	3571	61	
1860	3859	3796	63	
1880	3712	3669	43	
1900	3596	3552	44	
1920	3707	3663	44	
1940	3688	3638	50	
1960	3771	3718	53	
1980	3766	3721	45	
2000	3670	3633	37	1.02%

Slope Calc:

1740	4.49%	166	
1760	3.71%	137	
1780	3.21%	119	
1800	1.62%	60	
1820	6.38%	236	
1840	2.58%	95	

3C-2= Det10= 3B

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1566	1565	1	
1520	1866	1865	1	
1540	2101	2101	0	
1560	2425	2425	0	
1580	2651	2649	2	
1600	2709	2707	2	
1620	2958	2958	0	
1640	3114	3112	2	
1660	3216	3216	0	
1680	3251	3251	0	
1700	3243	3242	1	
1720	3433	3432	1	
1740	3481	3480	1	
1760	3317	3310	7	0.21%
1780	3339	3318	21	0.63%
1800	3498	3448	50	1.45%
1820	3490	3431	59	1.72%
1840	3488	3435	53	
1860	3572	3503	69	
1880	3485	3412	73	
1900	3488	3444	44	
1920	3413	3352	61	
1940	3393	3339	54	
1960	3501	3443	58	
1980	3392	3336	56	
2000	3471	3418	53	

1740	5.59%	189	
1760	0.09%	3	
1780	0.67%	23	
1800	2.99%	102	
1820	3.68%	126	
1840	2.80%	96	

3C-3= Det11= 3C

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1943	1942	1	
1520	2322	2322	0	
1540	2596	2596	0	
1560	2881	2879	2	
1580	3123	3121	2	
1600	3154	3153	1	
1620	3375	3375	0	
1640	3337	3334	3	
1660	3515	3514	1	
1680	3571	3570	1	
1700	3559	3558	1	
1720	3495	3493	2	
1740	3624	3621	3	
1760	3664	3649	15	0.41%
1780	3633	3606	27	0.75%
1800	3769	3706	63	1.70%
1820	3773	3701	72	1.95%
1840	3633	3551	82	
1860	3673	3599	74	
1880	3615	3534	81	
1900	3596	3527	69	
1920	3633	3567	66	
1940	3665	3582	83	
1960	3748	3678	70	
1980	3680	3597	83	
2000	3753	3665	88	

1740	3.95%	143	
1760	1.60%	58	
1780	0.61%	22	
1800	3.18%	115	
1820	2.19%	79	
1840	3.86%	139	

3C-4= Det12= 3D

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1405	1405	0	
1520	1737	1737	0	
1540	2027	2027	0	
1560	2352	2350	2	
1580	2489	2485	4	
1600	2667	2667	0	
1620	2896	2894	2	
1640	3066	3064	2	
1660	3148	3146	2	
1680	3135	3134	1	
1700	3289	3288	1	
1720	3226	3224	2	
1740	3228	3224	4	
1760	3281	3273	8	0.24%
1780	3292	3274	18	0.55%
1800	3351	3303	48	1.45%
1820	3246	3176	70	2.20%
1840	3420	3340	80	
1860	3445	3362	83	
1880	3342	3268	74	
1900	3337	3256	81	
1920	3366	3302	64	
1940	3282	3205	77	
1960	3308	3249	59	
1980	3376	3288	88	
2000	3446	3376	70	

1740	3.44%	112	
1760	3.56%	116	
1780	4.21%	138	
1800	0.15%	5	
1820	0.55%	18	
1840	0.03%	1	

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer D

2/3/2025

3D-1= Det13= 4A

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1473	1473	0	
1520	1740	1740	0	
1540	2173	2172	1	
1560	2323	2323	0	
1580	2748	2747	1	
1600	2856	2855	1	
1620	2997	2997	0	
1640	3197	3197	0	
1660	3447	3446	1	
1680	3605	3605	0	
1700	3502	3502	0	
1720	3604	3601	3	
1740	3608	3607	1	
1760	3727	3725	2	0.05%
1780	3697	3690	7	0.19%
1800	3759	3737	22	0.59%
1820	3677	3657	20	
1840	3605	3580	25	
1860	3765	3741	24	
1880	3790	3765	25	
1900	3760	3740	20	
1920	3750	3721	29	
1940	3756	3727	29	
1960	3772	3755	17	
1980	3845	3832	13	
2000	3782	3752	30	

1740	6.4%	235
1760	1.5%	56
1780	0.7%	27
1800	0.4%	16
1820	2.0%	75

3D-2= Det14= 4B

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1503	1503	0	
1520	1876	1876	0	
1540	2016	2015	1	
1560	2215	2215	0	
1580	2559	2559	0	
1600	2711	2709	2	
1620	2877	2875	2	
1640	3042	3042	0	
1660	3188	3188	0	
1680	3233	3232	1	
1700	3344	3344	0	
1720	3269	3268	1	
1740	3427	3425	2	
1760	3350	3344	6	0.18%
1780	3469	3456	13	0.38%
1800	3461	3421	40	1.17%
1820	3502	3456	46	
1840	3440	3395	45	
1860	3436	3378	58	
1880	3448	3396	52	
1900	3538	3490	48	
1920	3422	3384	38	
1940	3530	3479	51	
1960	3445	3389	56	
1980	3432	3375	57	
2000	3502	3452	50	

1740	2.3%	77
1760	5.5%	188
1780	0.9%	30
1800	1.0%	34
1820	1.8%	60

3D-3= Det15= 4C

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1452	1452	0	
1520	1673	1672	1	
1540	1902	1902	0	
1560	2293	2292	1	
1580	2446	2445	1	
1600	2606	2606	0	
1620	2848	2848	0	
1640	3084	3083	1	
1660	3206	3204	2	
1680	3387	3387	0	
1700	3325	3324	1	
1720	3304	3303	1	
1740	3509	3509	0	
1760	3536	3534	2	0.06%
1780	3518	3510	8	0.23%
1800	3509	3483	26	0.75%
1820	3507	3481	26	
1840	3552	3528	24	
1860	3718	3692	26	
1880	3681	3650	31	
1900	3554	3525	29	
1920	3527	3497	30	
1940	3512	3488	24	
1960	3591	3568	23	
1980	3581	3554	27	
2000	3614	3586	28	

1740	4.6%	159
1760	5.1%	178
1780	0.5%	19
1800	4.4%	158
1820	3.9%	140

3D-4= Det16= 4D

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1309	1309	0	
1520	1630	1629	1	
1540	1832	1829	3	
1560	2042	2042	0	
1580	2471	2469	2	
1600	2558	2558	0	
1620	2679	2677	2	
1640	2907	2906	1	
1660	2965	2964	1	
1680	3149	3146	3	
1700	3070	3069	1	
1720	3199	3198	1	
1740	3258	3256	2	
1760	3284	3281	3	0.09%
1780	3266	3256	10	0.31%
1800	3256	3222	34	1.06%
1820	3320	3273	47	
1840	3365	3320	45	
1860	3443	3381	62	
1880	3350	3299	51	
1900	3318	3269	49	
1920	3305	3257	48	
1940	3379	3330	49	
1960	3316	3266	50	
1980	3366	3318	48	
2000	3348	3305	43	

1740	4.7%	153
1760	2.3%	75
1780	1.9%	64
1800	3.0%	100
1820	1.3%	43

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 22:31
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	873	872	1
1520	1038	1038	0
1540	1340	1340	0
1560	1559	1558	1
1580	1788	1788	0
1600	2067	2066	1
1620	2282	2281	1
1640	2610	2608	2
1660	2812	2811	1
1680	3010	3009	1
1700	3244	3244	0
1720	3265	3264	1
1740	3348	3346	2
1760	3369	3369	0
1780	3492	3491	1
1800	3513	3507	6
1820	3427	3417	10
1840	3469	3459	10
1860	3553	3546	7
1880	3583	3576	7
1900	3452	3442	10
1920	3479	3469	10
1940	3493	3487	6
1960	3584	3576	8
1980	3471	3458	13
2000	3584	3575	9

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 17:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2043	2043	0
1520	2258	2257	1
1540	2588	2587	1
1560	2798	2797	1
1580	2992	2992	0
1600	3165	3165	0
1620	3233	3231	2
1640	3232	3231	1
1660	3342	3341	1
1680	3564	3563	1
1700	3312	3312	0
1720	3451	3448	3
1740	3533	3531	2
1760	3514	3501	13
1780	3500	3482	18
1800	3547	3488	59
1820	3528	3439	89
1840	3564	3479	85
1860	3561	3487	74
1880	3627	3533	94
1900	3590	3499	91
1920	3558	3476	82
1940	3509	3435	74
1960	3465	3394	71
1980	3477	3394	83
2000	3497	3425	72

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 17:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1037	1037	0
1520	1293	1293	0
1540	1548	1548	0
1560	1776	1775	1
1580	2099	2098	1
1600	2261	2261	0
1620	2610	2608	2
1640	2768	2767	1
1660	2953	2953	0
1680	3112	3112	0
1700	3235	3234	1
1720	3367	3367	0
1740	3502	3498	4
1760	3581	3579	2
1780	3447	3445	2
1800	3579	3560	19
1820	3601	3570	31
1840	3505	3480	25
1860	3498	3478	20
1880	3614	3595	19
1900	3566	3544	22
1920	3483	3462	21
1940	3694	3671	23
1960	3583	3563	20
1980	3561	3543	18
2000	3604	3575	29

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 17:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1115	1115	0
1520	1318	1318	0
1540	1501	1501	0
1560	1818	1816	2
1580	2047	2047	0
1600	2160	2160	0
1620	2418	2418	0
1640	2656	2655	1
1660	2794	2794	0
1680	2989	2988	1
1700	3037	3036	1
1720	3135	3133	2
1740	3215	3211	4
1760	3102	3100	2
1780	3294	3293	1
1800	3314	3313	1
1820	3340	3339	1
1840	3268	3268	0
1860	3295	3291	4
1880	3368	3368	0
1900	3260	3254	6
1920	3169	3167	2
1940	3368	3366	2
1960	3341	3338	3
1980	3277	3274	3
2000	3307	3304	3

Special Notes:

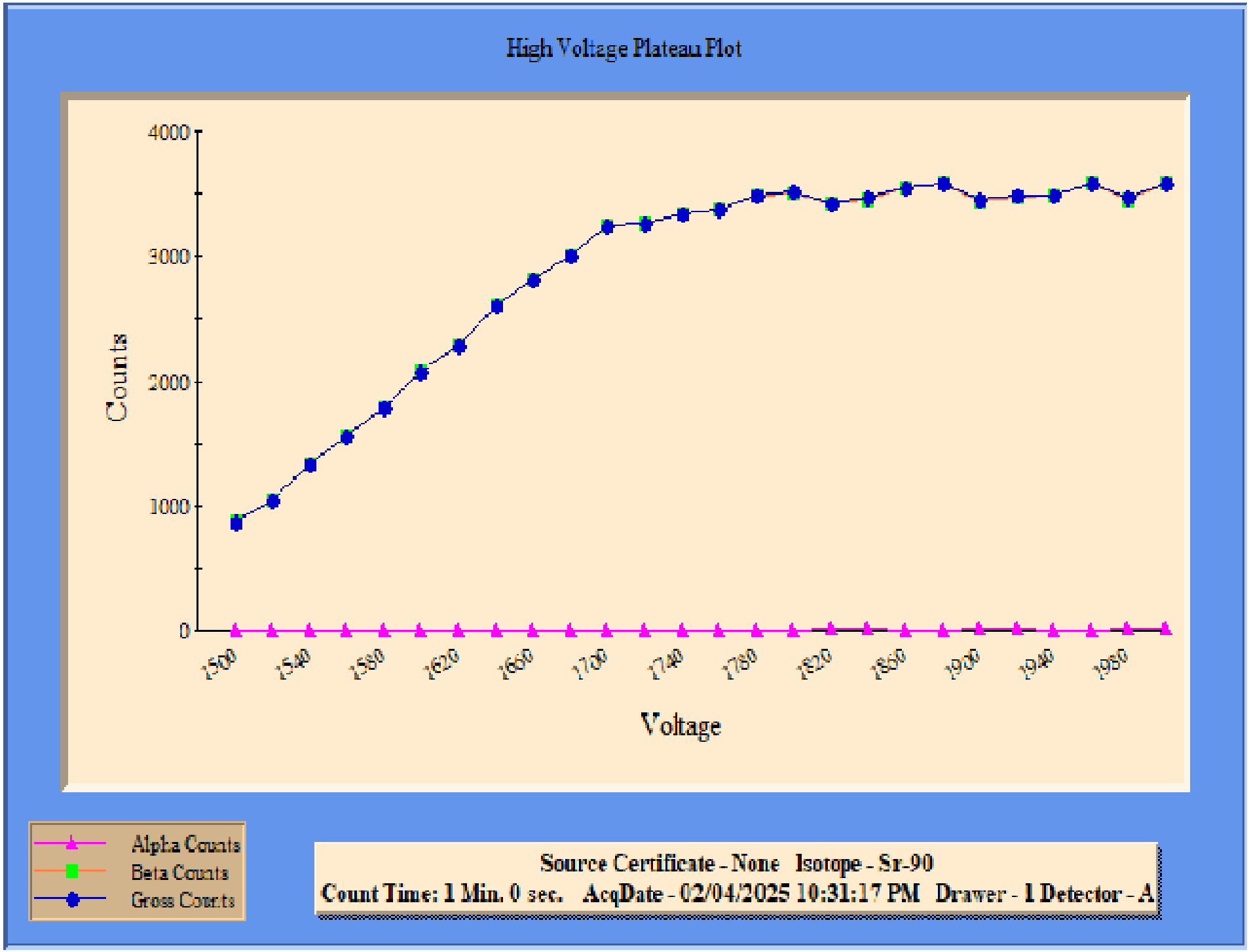
Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

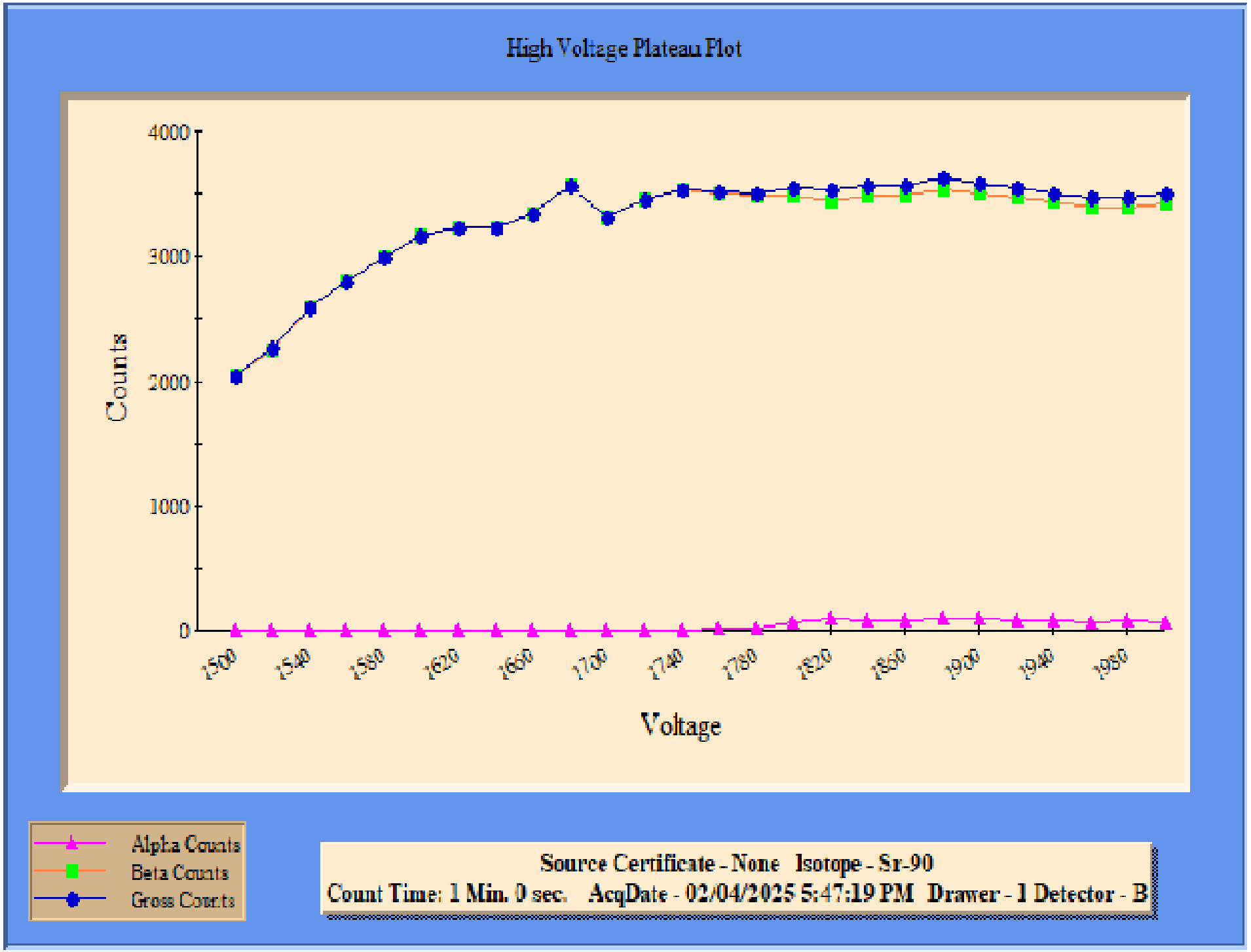
Collected By: _____ **Date:** _____

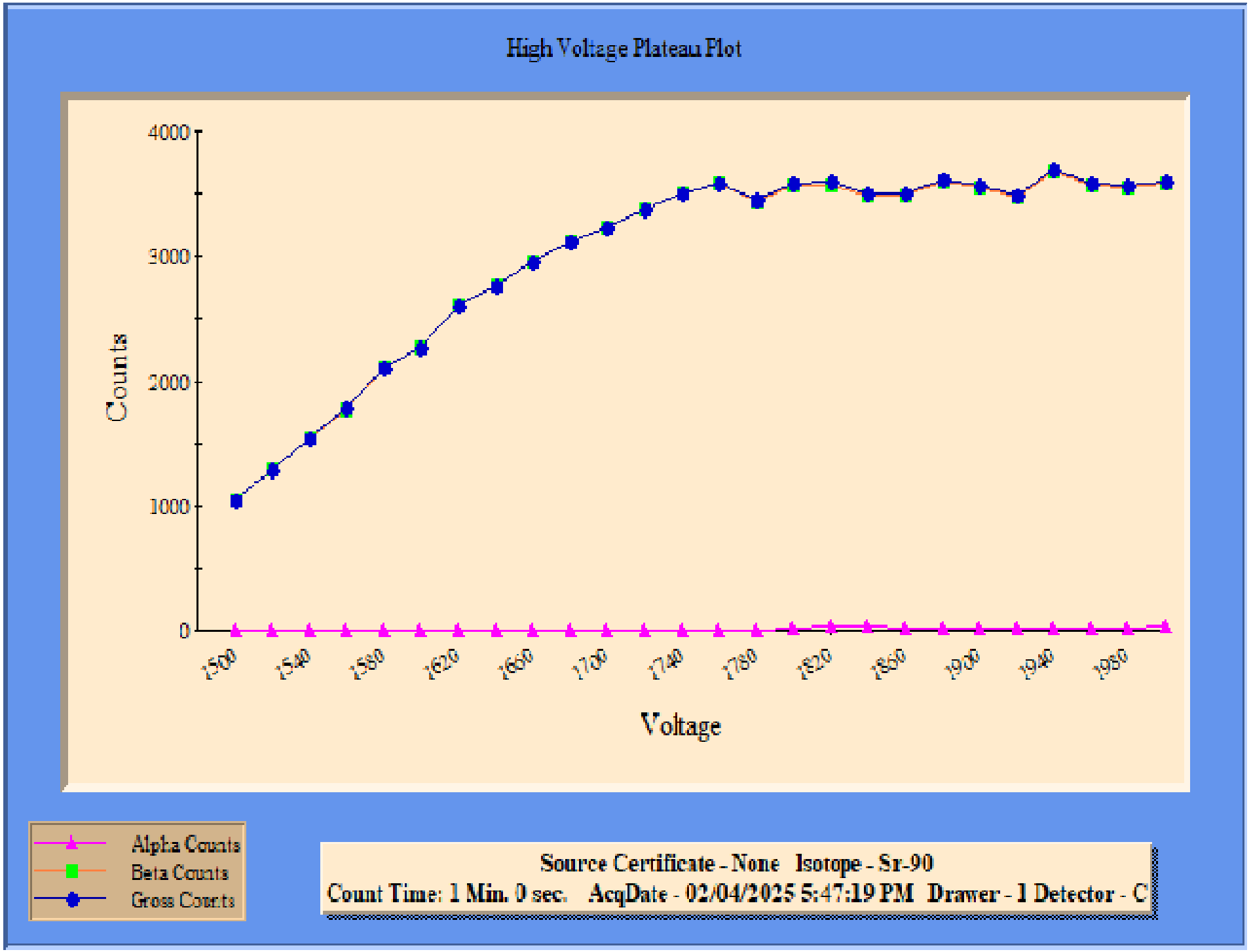
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

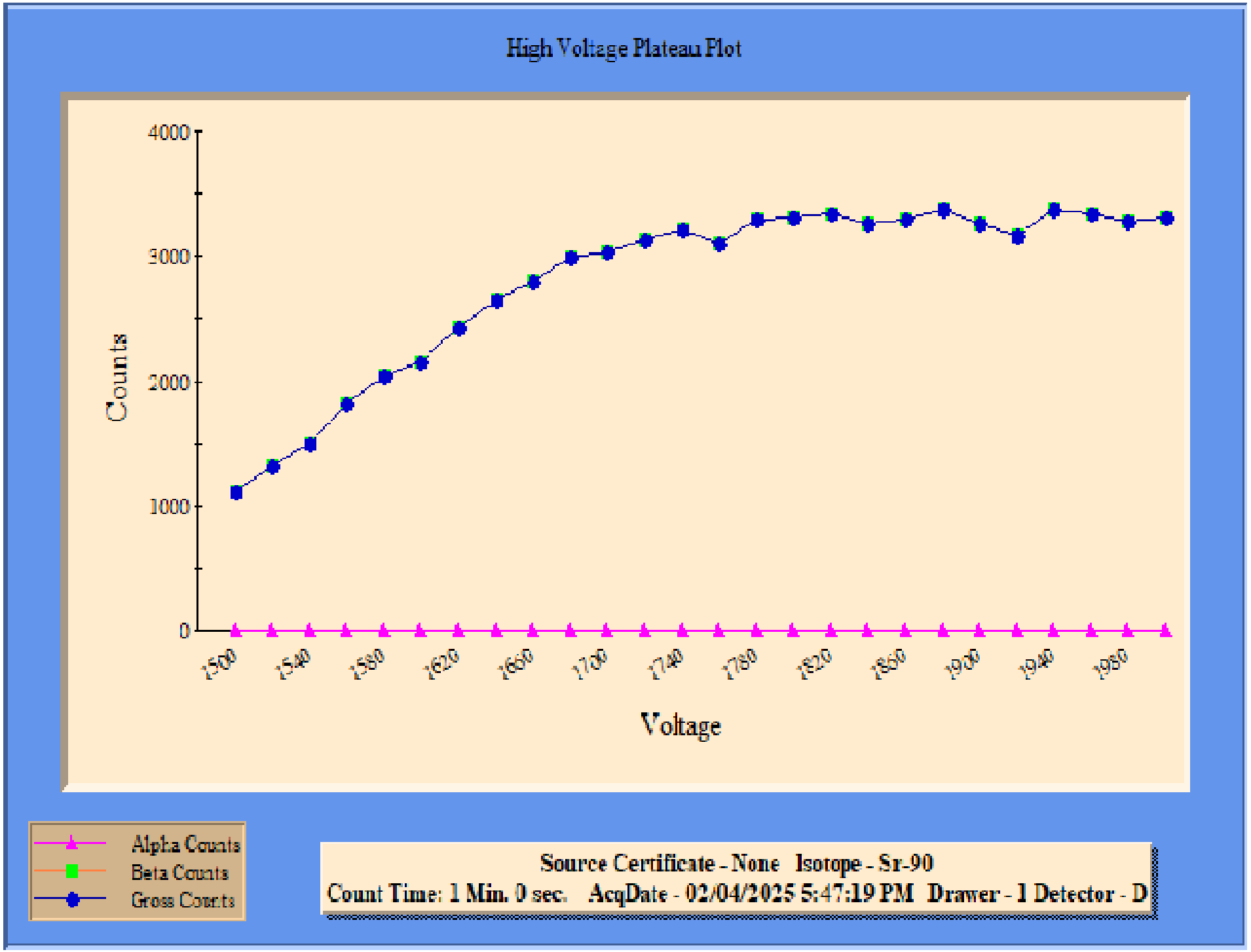
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 10:31:17 PM Drawer - 1 Detector - A


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 5:47:19 PM Drawer - 1 Detector - B


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 5:47:19 PM Drawer - 1 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 5:47:19 PM Drawer - 1 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1694	1693	1
1520	1907	1907	0
1540	2148	2147	1
1560	2514	2513	1
1580	2720	2720	0
1600	2985	2984	1
1620	3162	3161	1
1640	3251	3249	2
1660	3399	3398	1
1680	3480	3480	0
1700	3507	3505	2
1720	3721	3719	2
1740	3637	3636	1
1760	3719	3704	15
1780	3643	3613	30
1800	3672	3613	59
1820	3697	3619	78
1840	3801	3719	82
1860	3752	3686	66
1880	3804	3701	103
1900	3737	3666	71
1920	3849	3766	83
1940	3700	3622	78
1960	3805	3731	74
1980	3821	3740	81
2000	3798	3716	82

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1556	1556	0
1520	1748	1748	0
1540	2121	2121	0
1560	2269	2269	0
1580	2616	2615	1
1600	2751	2751	0
1620	3019	3019	0
1640	2966	2965	1
1660	3061	3061	0
1680	3257	3255	2
1700	3299	3298	1
1720	3285	3284	1
1740	3386	3385	1
1760	3425	3424	1
1780	3475	3472	3
1800	3416	3397	19
1820	3460	3439	21
1840	3367	3357	10
1860	3472	3454	18
1880	3548	3532	16
1900	3488	3466	22
1920	3436	3420	16
1940	3553	3540	13
1960	3368	3353	15
1980	3495	3471	24
2000	3415	3397	18

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1880	1880	0
1520	2172	2172	0
1540	2501	2501	0
1560	2740	2739	1
1580	2867	2867	0
1600	3012	3012	0
1620	3238	3236	2
1640	3322	3321	1
1660	3405	3404	1
1680	3424	3422	2
1700	3526	3526	0
1720	3508	3507	1
1740	3557	3552	5
1760	3530	3525	5
1780	3598	3583	15
1800	3685	3635	50
1820	3753	3697	56
1840	3606	3552	54
1860	3744	3697	47
1880	3722	3669	52
1900	3705	3651	54
1920	3691	3646	45
1940	3710	3655	55
1960	3708	3656	52
1980	3724	3675	49
2000	3757	3696	61

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1353	1353	0
1520	1608	1608	0
1540	1823	1821	2
1560	2099	2098	1
1580	2441	2441	0
1600	2473	2472	1
1620	2689	2688	1
1640	2933	2932	1
1660	2993	2992	1
1680	3141	3141	0
1700	3103	3103	0
1720	3142	3141	1
1740	3174	3172	2
1760	3243	3241	2
1780	3348	3339	9
1800	3206	3187	19
1820	3385	3365	20
1840	3282	3253	29
1860	3288	3255	33
1880	3238	3222	16
1900	3263	3239	24
1920	3252	3228	24
1940	3277	3248	29
1960	3406	3386	20
1980	3287	3260	27
2000	3213	3193	20

Special Notes:

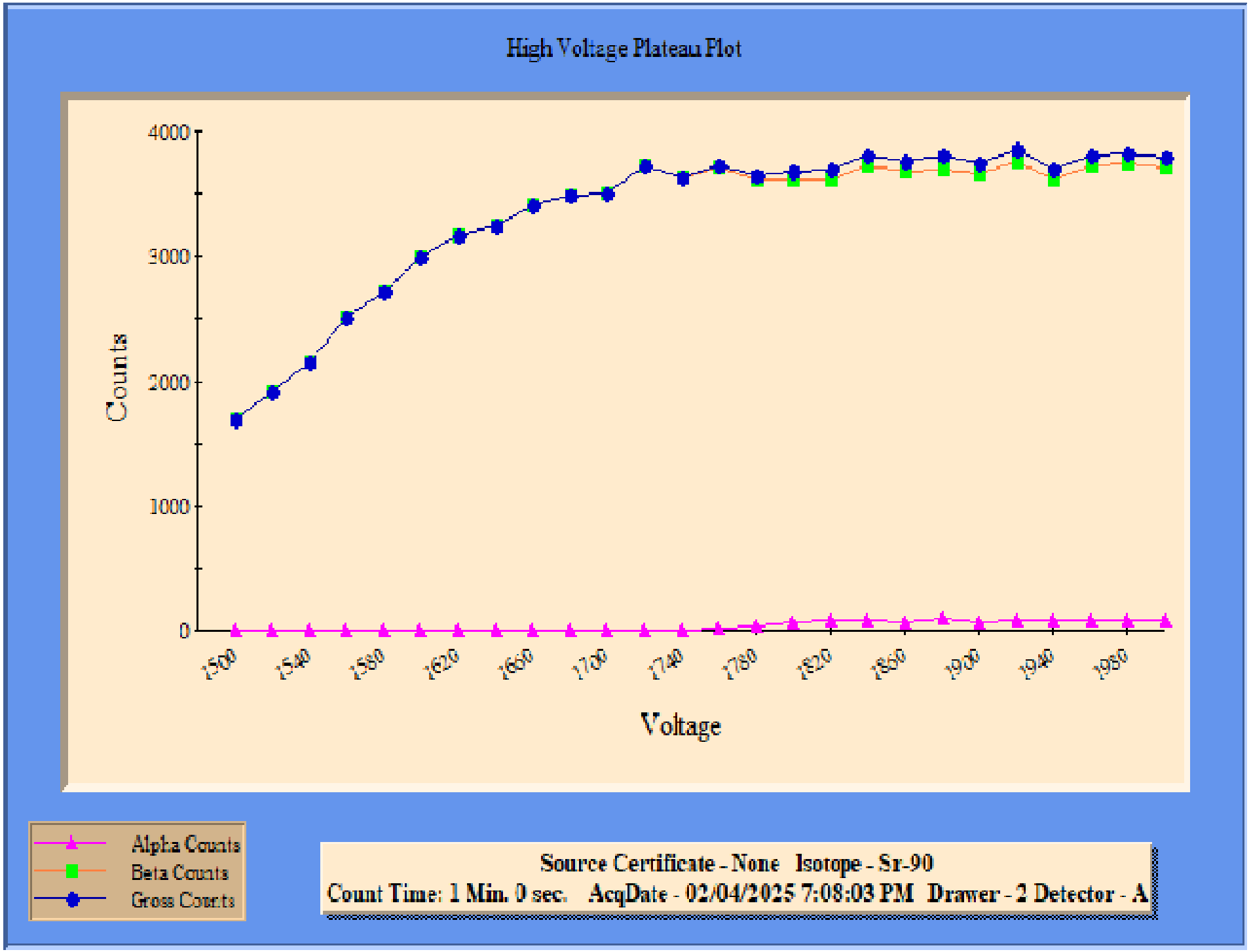
Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

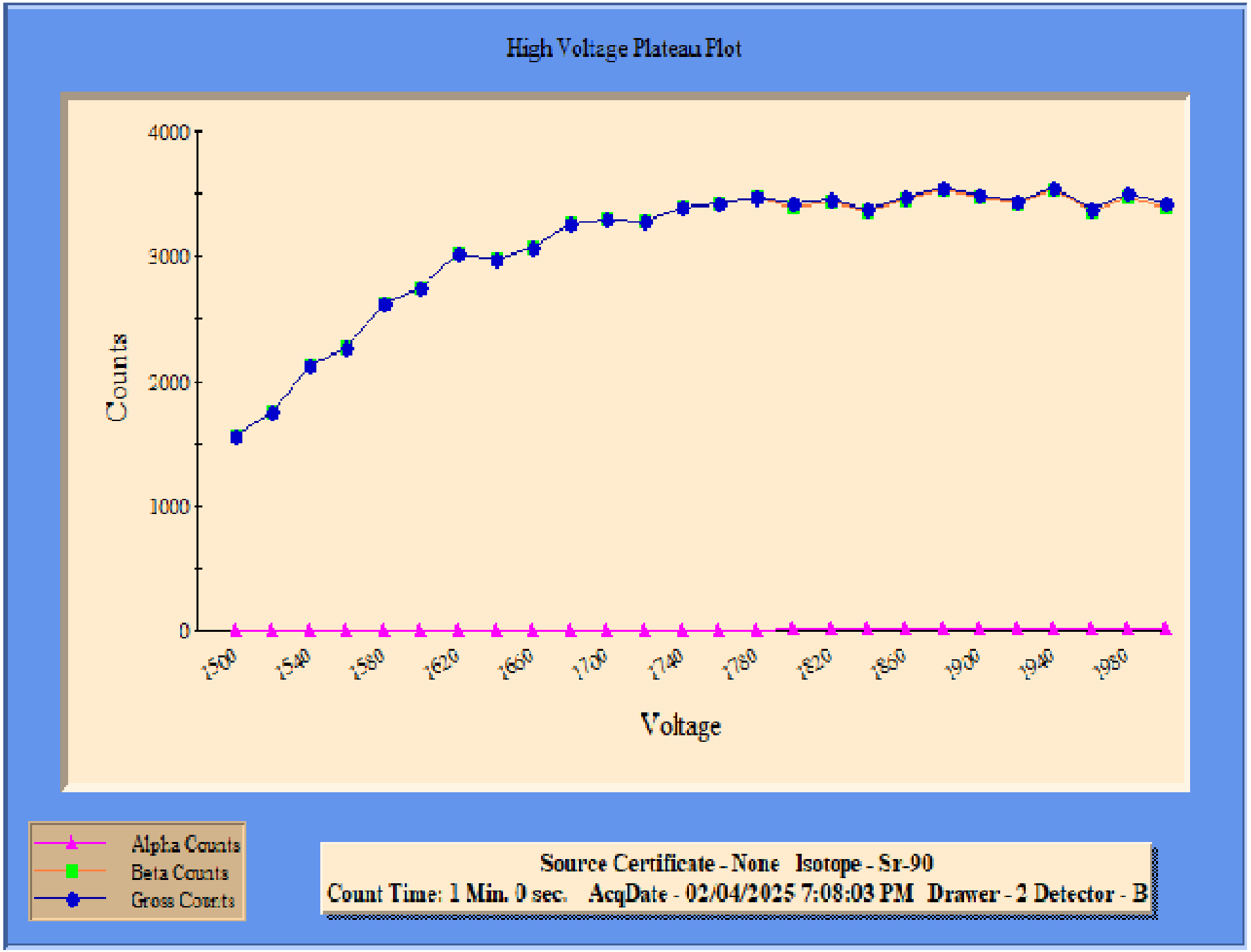
Collected By: _____ **Date:** _____

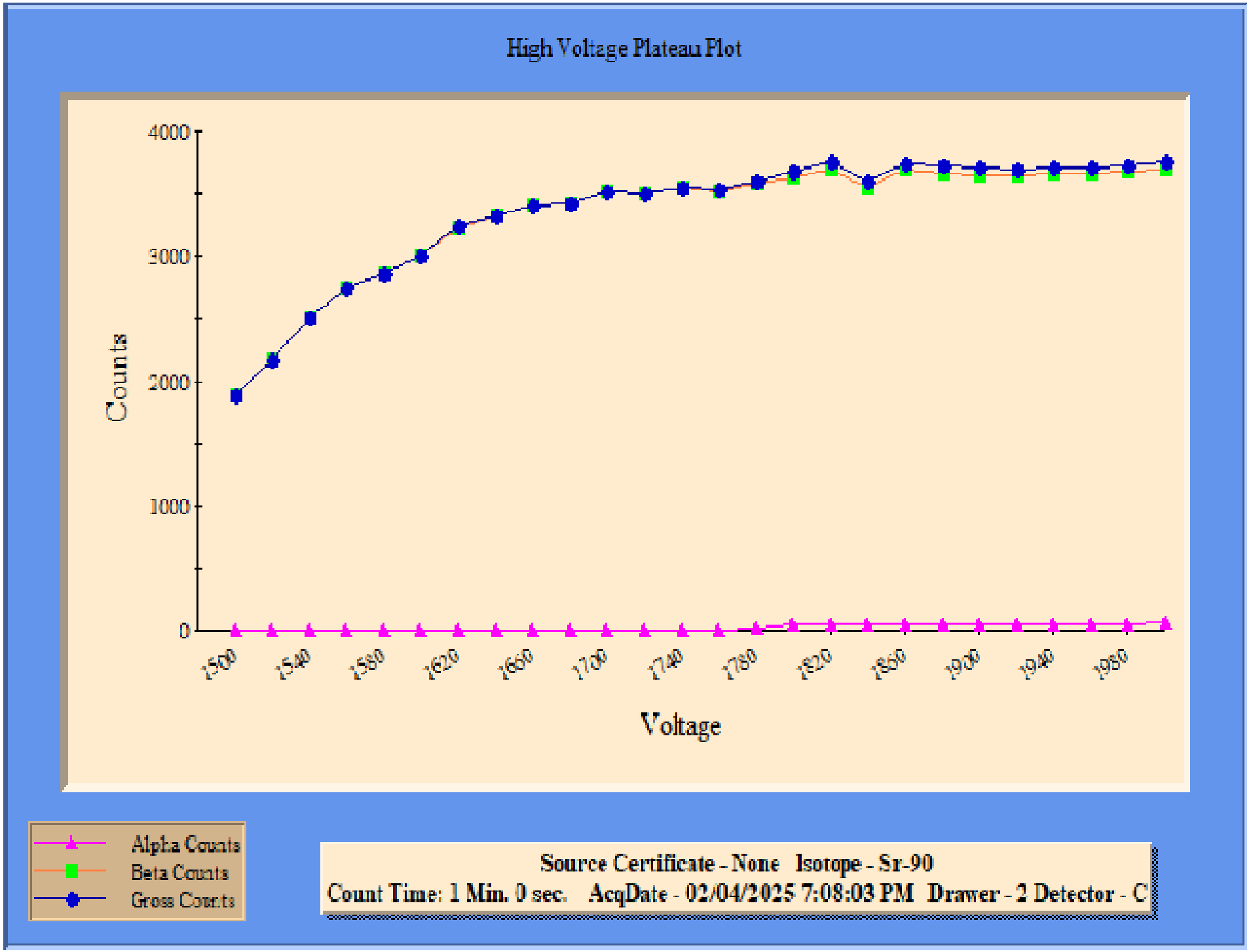
Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

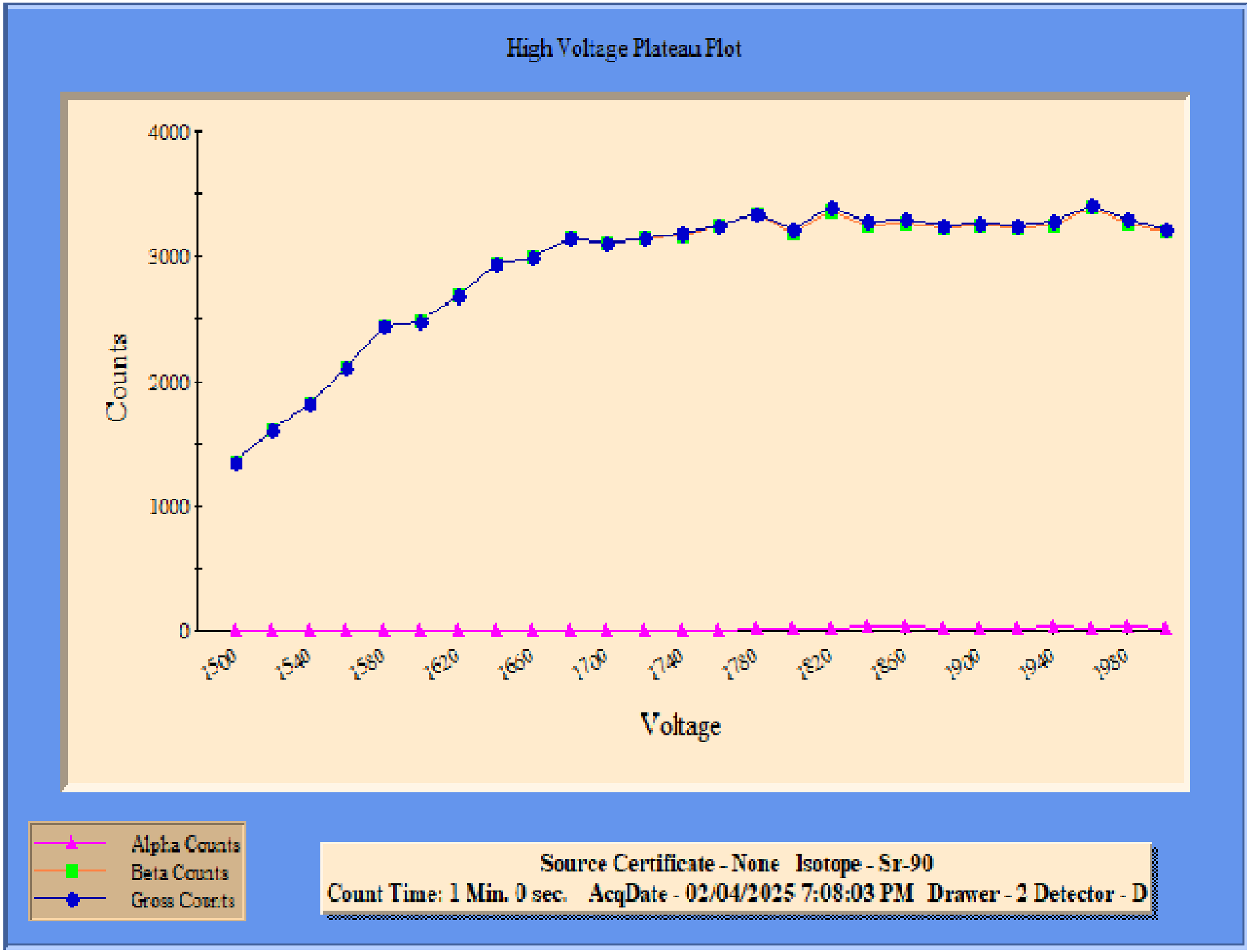
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - A


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - B


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1721	1720	1
1520	2063	2063	0
1540	2349	2349	0
1560	2662	2661	1
1580	2835	2835	0
1600	3055	3054	1
1620	3243	3243	0
1640	3320	3319	1
1660	3529	3529	0
1680	3460	3459	1
1700	3586	3584	2
1720	3712	3708	4
1740	3677	3677	0
1760	3616	3609	7
1780	3809	3788	21
1800	3798	3758	40
1820	3814	3750	64
1840	3632	3571	61
1860	3859	3796	63
1880	3712	3669	43
1900	3596	3552	44
1920	3707	3663	44
1940	3688	3638	50
1960	3771	3718	53
1980	3766	3721	45
2000	3670	3633	37

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1566	1565	1
1520	1866	1865	1
1540	2101	2101	0
1560	2425	2425	0
1580	2651	2649	2
1600	2709	2707	2
1620	2958	2958	0
1640	3114	3112	2
1660	3216	3216	0
1680	3251	3251	0
1700	3243	3242	1
1720	3433	3432	1
1740	3481	3480	1
1760	3317	3310	7
1780	3339	3318	21
1800	3498	3448	50
1820	3490	3431	59
1840	3488	3435	53
1860	3572	3503	69
1880	3485	3412	73
1900	3488	3444	44
1920	3413	3352	61
1940	3393	3339	54
1960	3501	3443	58
1980	3392	3336	56
2000	3471	3418	53

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1943	1942	1
1520	2322	2322	0
1540	2596	2596	0
1560	2881	2879	2
1580	3123	3121	2
1600	3154	3153	1
1620	3375	3375	0
1640	3337	3334	3
1660	3515	3514	1
1680	3571	3570	1
1700	3559	3558	1
1720	3495	3493	2
1740	3624	3621	3
1760	3664	3649	15
1780	3633	3606	27
1800	3769	3706	63
1820	3773	3701	72
1840	3633	3551	82
1860	3673	3599	74
1880	3615	3534	81
1900	3596	3527	69
1920	3633	3567	66
1940	3665	3582	83
1960	3748	3678	70
1980	3680	3597	83
2000	3753	3665	88

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1405	1405	0
1520	1737	1737	0
1540	2027	2027	0
1560	2352	2350	2
1580	2489	2485	4
1600	2667	2667	0
1620	2896	2894	2
1640	3066	3064	2
1660	3148	3146	2
1680	3135	3134	1
1700	3289	3288	1
1720	3226	3224	2
1740	3228	3224	4
1760	3281	3273	8
1780	3292	3274	18
1800	3351	3303	48
1820	3246	3176	70
1840	3420	3340	80
1860	3445	3362	83
1880	3342	3268	74
1900	3337	3256	81
1920	3366	3302	64
1940	3282	3205	77
1960	3308	3249	59
1980	3376	3288	88
2000	3446	3376	70

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1473	1473	0
1520	1740	1740	0
1540	2173	2172	1
1560	2323	2323	0
1580	2748	2747	1
1600	2856	2855	1
1620	2997	2997	0
1640	3197	3197	0
1660	3447	3446	1
1680	3605	3605	0
1700	3502	3502	0
1720	3604	3601	3
1740	3608	3607	1
1760	3727	3725	2
1780	3697	3690	7
1800	3759	3737	22
1820	3677	3657	20
1840	3605	3580	25
1860	3765	3741	24
1880	3790	3765	25
1900	3760	3740	20
1920	3750	3721	29
1940	3756	3727	29
1960	3772	3755	17
1980	3845	3832	13
2000	3782	3752	30

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1503	1503	0
1520	1876	1876	0
1540	2016	2015	1
1560	2215	2215	0
1580	2559	2559	0
1600	2711	2709	2
1620	2877	2875	2
1640	3042	3042	0
1660	3188	3188	0
1680	3233	3232	1
1700	3344	3344	0
1720	3269	3268	1
1740	3427	3425	2
1760	3350	3344	6
1780	3469	3456	13
1800	3461	3421	40
1820	3502	3456	46
1840	3440	3395	45
1860	3436	3378	58
1880	3448	3396	52
1900	3538	3490	48
1920	3422	3384	38
1940	3530	3479	51
1960	3445	3389	56
1980	3432	3375	57
2000	3502	3452	50

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1452	1452	0
1520	1673	1672	1
1540	1902	1902	0
1560	2293	2292	1
1580	2446	2445	1
1600	2606	2606	0
1620	2848	2848	0
1640	3084	3083	1
1660	3206	3204	2
1680	3387	3387	0
1700	3325	3324	1
1720	3304	3303	1
1740	3509	3509	0
1760	3536	3534	2
1780	3518	3510	8
1800	3509	3483	26
1820	3507	3481	26
1840	3552	3528	24
1860	3718	3692	26
1880	3681	3650	31
1900	3554	3525	29
1920	3527	3497	30
1940	3512	3488	24
1960	3591	3568	23
1980	3581	3554	27
2000	3614	3586	28

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1309	1309	0
1520	1630	1629	1
1540	1832	1829	3
1560	2042	2042	0
1580	2471	2469	2
1600	2558	2558	0
1620	2679	2677	2
1640	2907	2906	1
1660	2965	2964	1
1680	3149	3146	3
1700	3070	3069	1
1720	3199	3198	1
1740	3258	3256	2
1760	3284	3281	3
1780	3266	3256	10
1800	3256	3222	34
1820	3320	3273	47
1840	3365	3320	45
1860	3443	3381	62
1880	3350	3299	51
1900	3318	3269	49
1920	3305	3257	48
1940	3379	3330	49
1960	3316	3266	50
1980	3366	3318	48
2000	3348	3305	43

Special Notes:

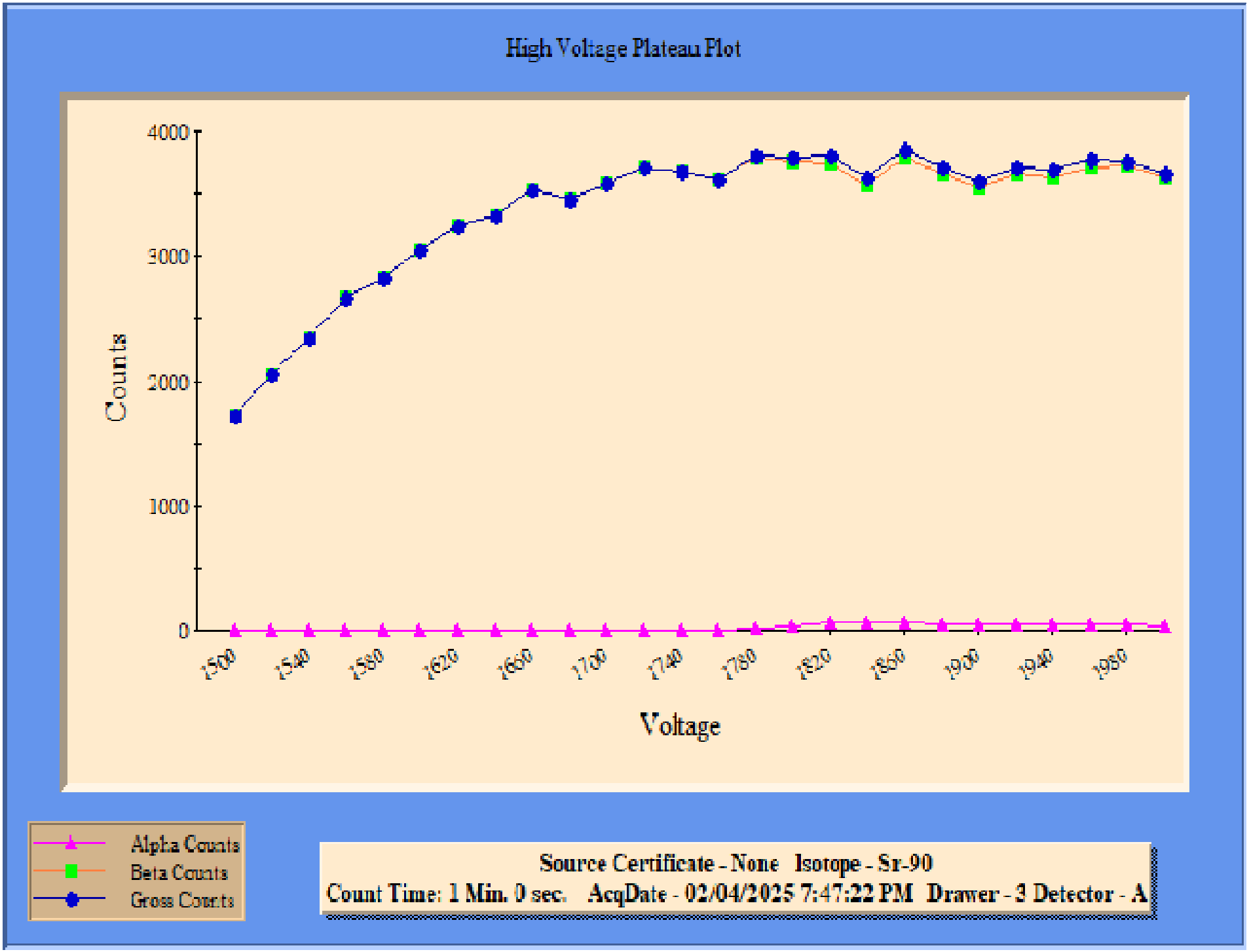
Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

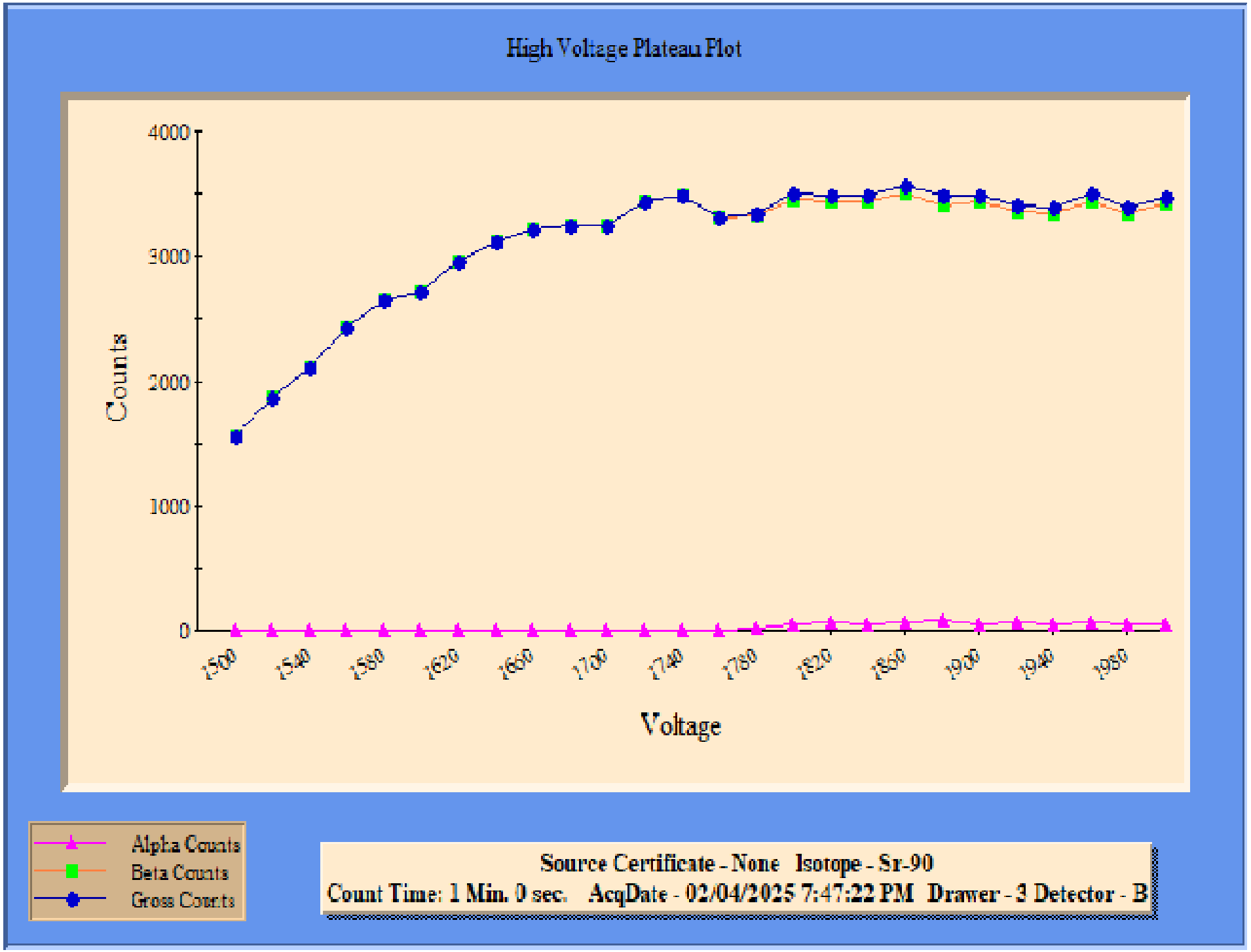
Collected By: _____ **Date:** _____

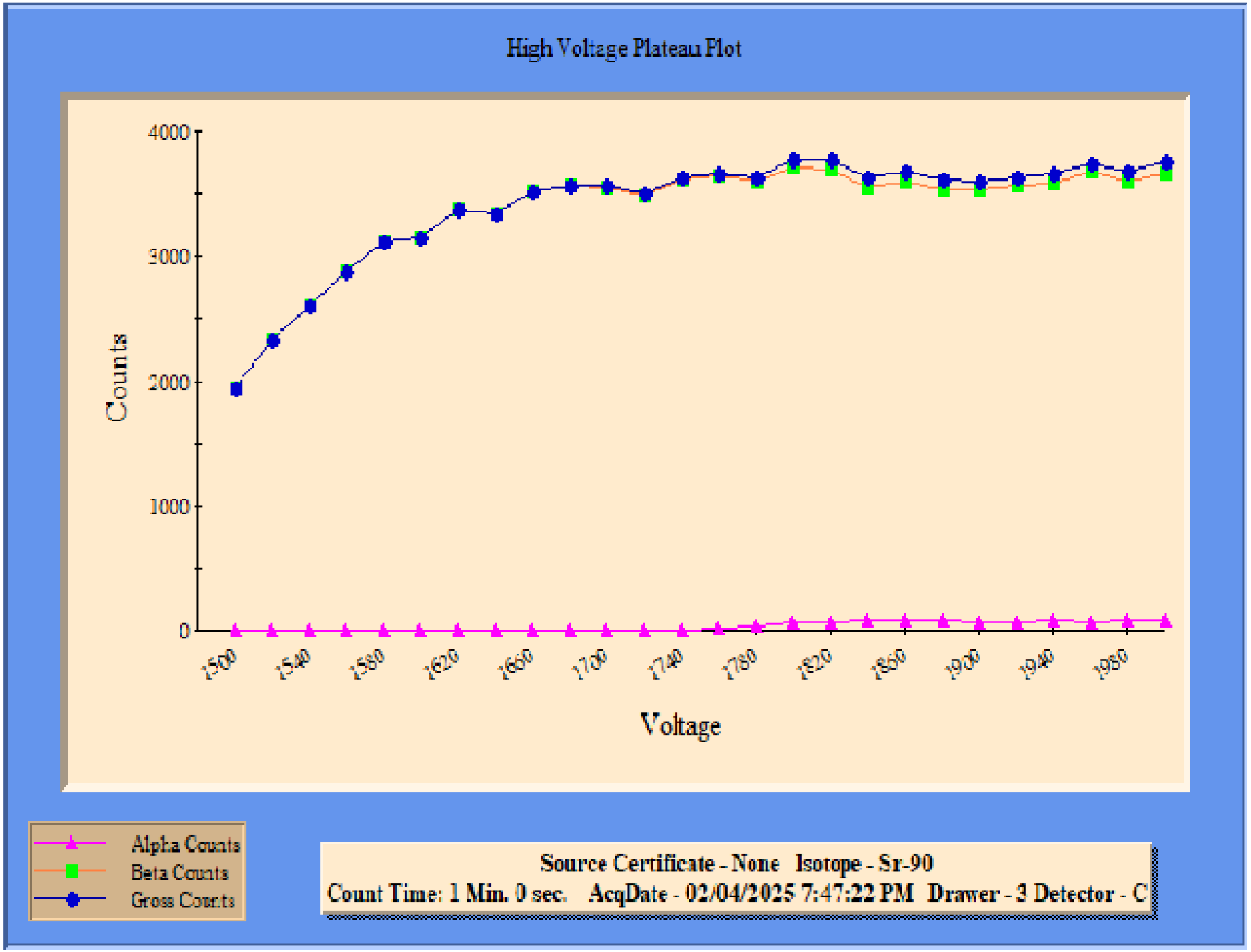
Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

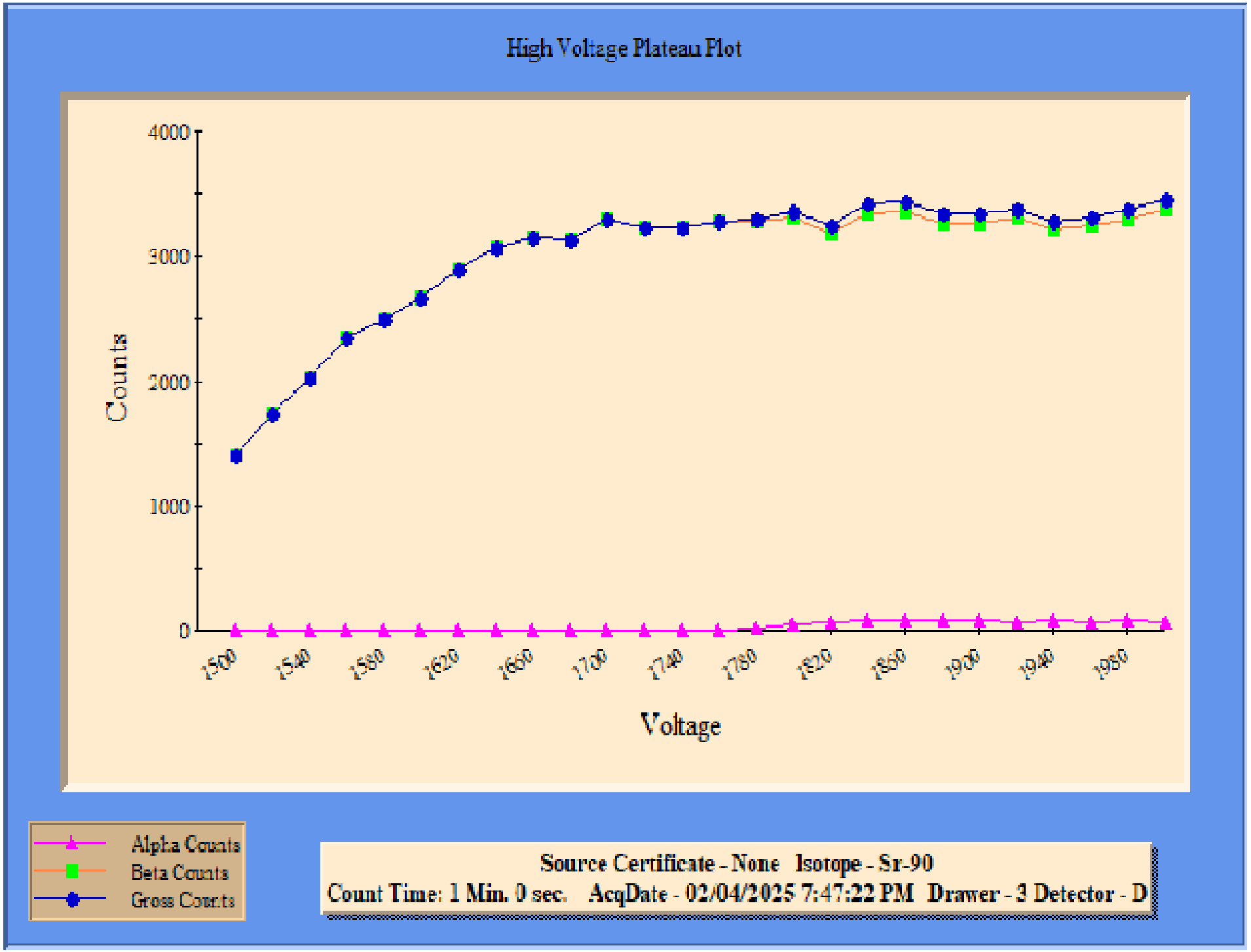
Approved By: _____ **Date:** _____

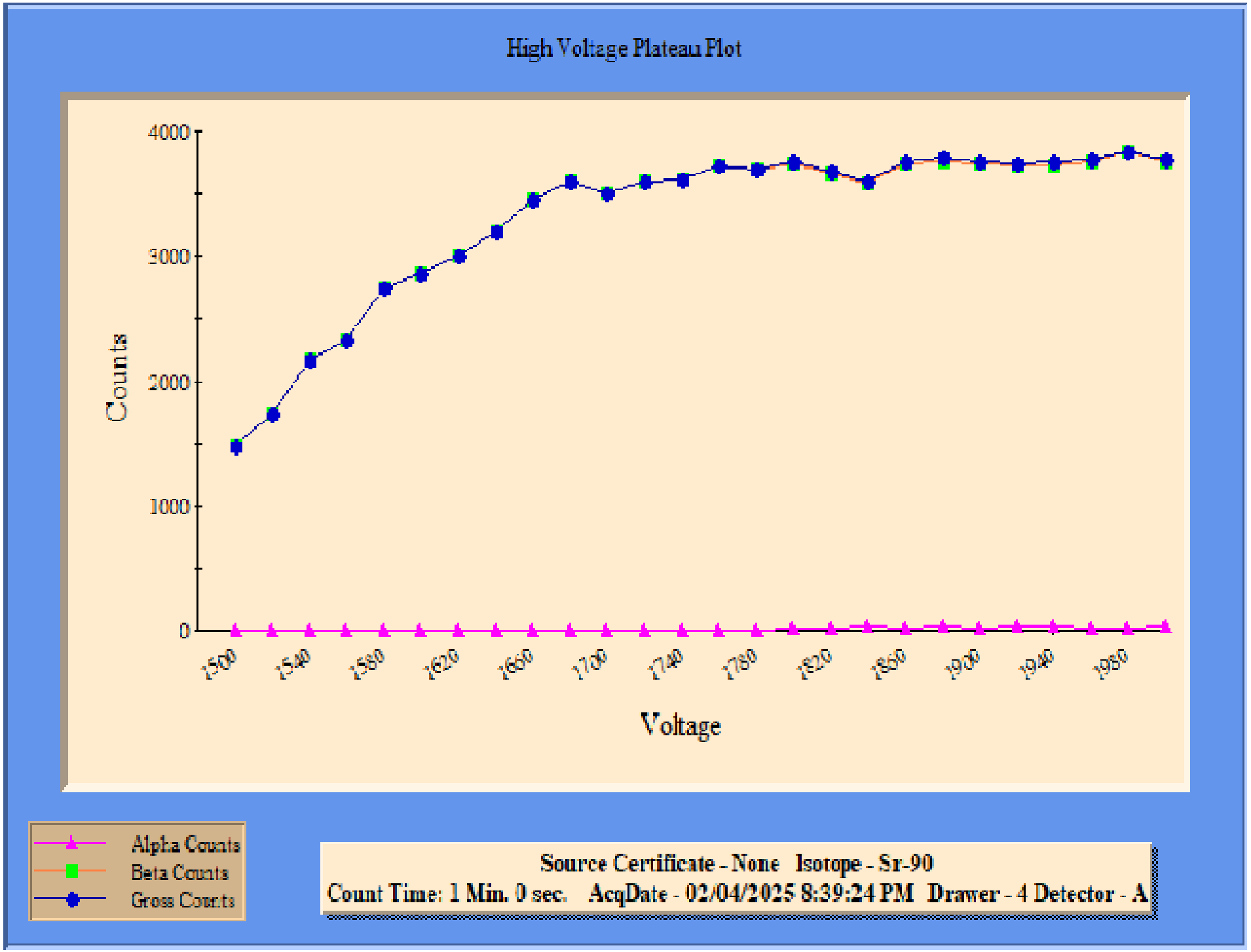
Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

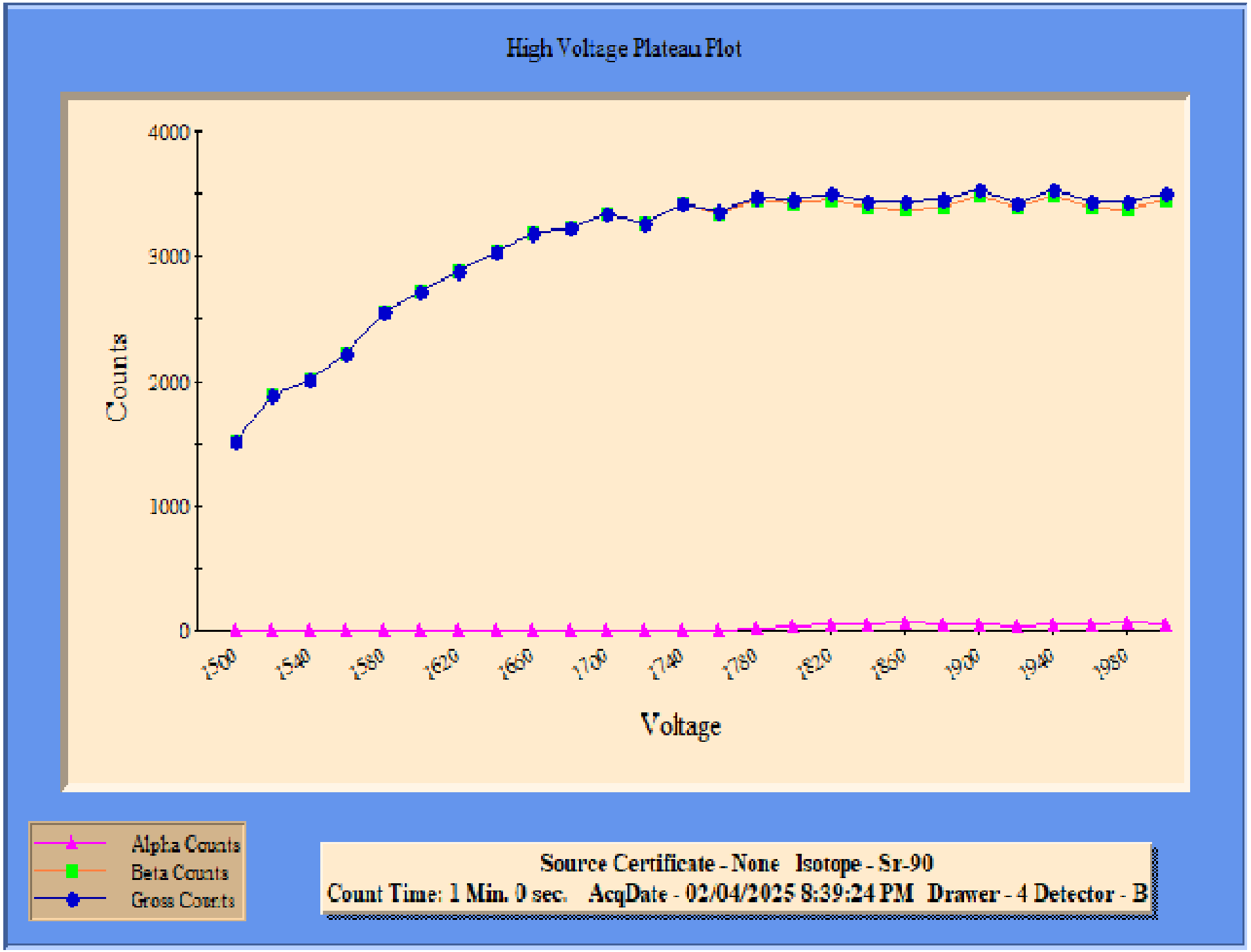

High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - A

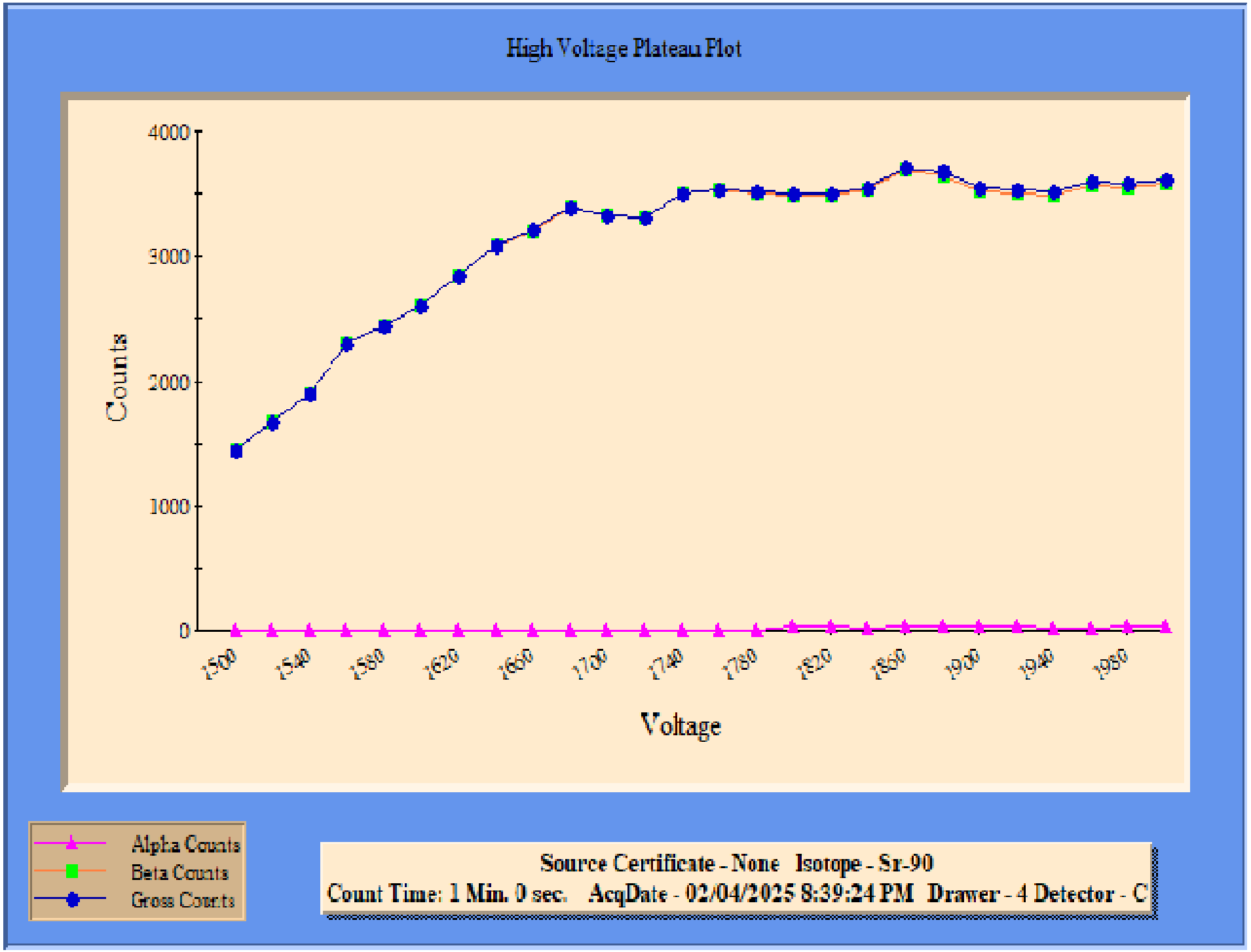

High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - B

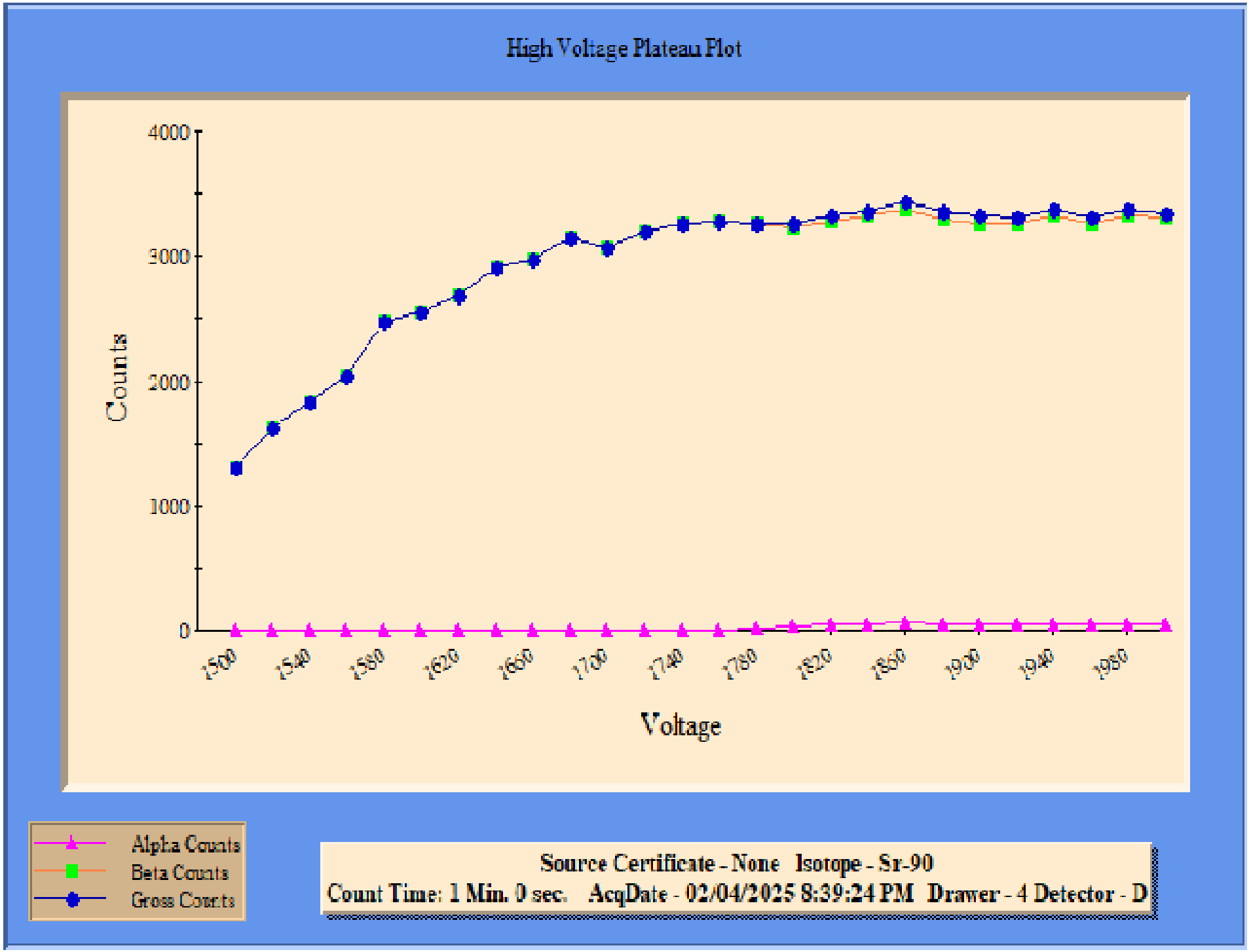

High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - D


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - A


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - B


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - D

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:19
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	1	**Detector:**	A	**Source Certificate:**	23A16260
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3420	3
2	3471	2
3	3488	1
4	3521	1
5	3407	0
6	3542	3
7	3430	3
8	3445	2
9	3520	0
10	3391	1
11	3563	5
12	3421	0
13	3495	2
14	3522	0
15	3443	3
16	3525	2
17	3467	5
18	3474	3
19	3505	5
20	3440	1

(Xbar) Mean:	3474.50	2.10
Calculated Chi-Sqr Value:	13.07	24.67

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: B
Voltage: 1780
Conf Level: 95.0 %
Test Date: 02/04/2025 23:19
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3457	29
2	3352	25
3	3334	18
4	3518	26
5	3381	26
6	3313	29
7	3466	24
8	3450	22
9	3453	23
10	3365	24
11	3479	17
12	3340	32
13	3462	25
14	3413	34
15	3290	25
16	3370	21
17	3392	20
18	3382	24
19	3407	22
20	3384	30

(Xbar) Mean:	3400.40	24.80
Calculated Chi-Sqr Value:	20.64	14.81

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:19
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	1	**Detector:**	C	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3569	3
2	3618	7
3	3684	8
4	3665	11
5	3478	7
6	3504	7
7	3542	12
8	3587	7
9	3657	4
10	3671	9
11	3575	5
12	3618	16
13	3589	1
14	3659	6
15	3542	8
16	3571	9
17	3595	3
18	3643	4
19	3613	10
20	3491	12

(Xbar) Mean:	3593.55	7.45
Calculated Chi-Sqr Value:	19.57	33.95

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:19
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	1	**Detector:**	D	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3397	2
2	3317	1
3	3497	3
4	3363	1
5	3412	4
6	3441	4
7	3392	1
8	3330	0
9	3317	4
10	3320	0
11	3428	0
12	3416	1
13	3432	2
14	3340	0
15	3499	1
16	3339	1
17	3358	2
18	3385	3
19	3424	1
20	3422	1

(Xbar) Mean:	3391.45	1.60
Calculated Chi-Sqr Value:	17.26	21.75

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: A
Voltage: 1780
Conf Level: 95.0 %

Test Date: 02/04/2025 23:52
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: 23A16260
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3516	31
2	3578	23
3	3641	19
4	3669	22
5	3514	29
6	3657	24
7	3657	24
8	3542	22
9	3575	28
10	3659	28
11	3539	21
12	3575	28
13	3609	24
14	3593	39
15	3577	15
16	3560	44
17	3664	22
18	3589	17
19	3600	28
20	3605	29

(Xbar) Mean:	3595.95	25.85
Calculated Chi-Sqr Value:	12.75	34.68

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: B
Voltage: 1780
Conf Level: 95.0 %

Test Date: 02/04/2025 23:52
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3210	0
2	3214	4
3	3368	3
4	3272	3
5	3219	2
6	3222	2
7	3281	6
8	3315	4
9	3316	1
10	3255	2
11	3252	1
12	3315	4
13	3355	2
14	3350	1
15	3264	7
16	3226	4
17	3341	3
18	3295	1
19	3218	7
20	3275	3

(Xbar) Mean:	3278.15	3.00
Calculated Chi-Sqr Value:	15.48	24.67

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: C
Voltage: 1780
Conf Level: 95.0 %

Test Date: 02/04/2025 23:52
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3630	15
2	3646	14
3	3679	12
4	3585	21
5	3609	17
6	3618	15
7	3618	9
8	3553	13
9	3730	14
10	3659	15
11	3742	10
12	3739	19
13	3636	15
14	3763	16
15	3635	20
16	3696	16
17	3656	12
18	3651	16
19	3566	21
20	3755	19

(Xbar) Mean:	3658.30	15.45
Calculated Chi-Sqr Value:	20.10	14.04

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:52
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	2	**Detector:**	D	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	**Chn 1- 899**	**Chn 900 - 1023**
1	3384	1
2	3335	3
3	3518	8
4	3369	4
5	3354	5
6	3344	2
7	3464	11
8	3304	11
9	3483	7
10	3422	3
11	3444	3
12	3372	3
13	3495	5
14	3430	10
15	3347	5
16	3340	3
17	3438	4
18	3467	8
19	3361	5
20	3431	9

(Xbar) Mean:	3405.10	5.50
Calculated Chi-Sqr Value:	21.22	32.18

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: 23A16260
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3568	5
2	3607	3
3	3542	2
4	3630	1
5	3609	8
6	3624	3
7	3631	4
8	3591	4
9	3528	4
10	3714	7
11	3610	5
12	3700	6
13	3603	6
14	3589	3
15	3461	4
16	3599	3
17	3652	8
18	3558	4
19	3618	3
20	3625	1

(Xbar) Mean:	3602.95	4.20
Calculated Chi-Sqr Value:	16.66	18.38

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: B
Voltage: 1760
Conf Level: 95.0 %
Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3312	4
2	3305	3
3	3410	4
4	3345	2
5	3335	8
6	3314	5
7	3256	8
8	3278	5
9	3326	2
10	3333	4
11	3258	7
12	3334	4
13	3324	9
14	3333	4
15	3277	7
16	3394	7
17	3345	6
18	3195	5
19	3353	4
20	3276	6

(Xbar) Mean:	3315.15	5.20
Calculated Chi-Sqr Value:	13.78	14.46

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: C
Voltage: 1760
Conf Level: 95.0 %

Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3615	10
2	3681	8
3	3674	10
4	3604	11
5	3756	8
6	3682	9
7	3688	8
8	3671	12
9	3759	8
10	3814	7
11	3640	11
12	3671	17
13	3761	11
14	3748	10
15	3713	8
16	3696	12
17	3657	14
18	3680	11
19	3646	12
20	3687	6

(Xbar) Mean:	3692.15	10.15
Calculated Chi-Sqr Value:	14.40	12.47

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: D
Voltage: 1760
Conf Level: 95.0 %

Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3427	7
2	3512	7
3	3432	10
4	3474	8
5	3507	9
6	3484	19
7	3491	10
8	3436	9
9	3494	10
10	3418	12
11	3446	5
12	3363	7
13	3428	10
14	3388	3
15	3357	7
16	3443	9
17	3495	12
18	3456	7
19	3373	2
20	3457	8

(Xbar) Mean:	3444.05	8.55
Calculated Chi-Sqr Value:	12.33	28.18

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: A
Voltage: 1780
Conf Level: 95.0 %
Test Date: 02/05/2025 15:35
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3523	8
2	3647	10
3	3651	13
4	3734	14
5	3569	9
6	3576	15
7	3523	19
8	3680	16
9	3630	18
10	3593	9
11	3626	10
12	3647	15
13	3622	12
14	3696	7
15	3520	14
16	3471	16
17	3485	17
18	3504	12
19	3597	15
20	3531	21

(Xbar) Mean:	3591.25	13.50
Calculated Chi-Sqr Value:	29.19	20.81

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** B
Counting Time: 1 min 0 sec **Voltage:** 1780
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 02/05/2025 15:35
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3331	34
2	3331	32
3	3324	30
4	3456	41
5	3219	37
6	3261	31
7	3286	25
8	3360	36
9	3304	30
10	3291	38
11	3247	30
12	3386	43
13	3378	35
14	3363	44
15	3335	25
16	3236	49
17	3326	32
18	3385	33
19	3316	35
20	3455	34

(Xbar) Mean:	3329.50	34.70
Calculated Chi-Sqr Value:	23.78	20.29

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** C
Counting Time: 1 min 0 sec **Voltage:** 1780
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 02/05/2025 15:35
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3653	28
2	3536	20
3	3612	30
4	3468	38
5	3580	16
6	3557	29
7	3580	23
8	3554	28
9	3531	30
10	3564	36
11	3541	36
12	3572	36
13	3489	28
14	3551	24
15	3541	25
16	3530	34
17	3405	33
18	3546	32
19	3525	18
20	3529	19

(Xbar) Mean:	3543.20	28.15
Calculated Chi-Sqr Value:	14.04	29.01

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1780
Conf Level: 95.0 %
Test Date: 02/05/2025 15:35
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3347	27
2	3380	31
3	3385	41
4	3362	33
5	3426	41
6	3380	33
7	3333	42
8	3328	43
9	3398	38
10	3495	50
11	3554	28
12	3448	39
13	3476	35
14	3450	43
15	3452	44
16	3538	38
17	3333	33
18	3444	34
19	3396	37
20	3421	36

(Xbar) Mean:	3417.30	37.30
Calculated Chi-Sqr Value:	23.88	16.90

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

SGD GROUP:	
METHOD	EPA 900/9310
PREP DATE:	2/7/2025 0:00
PREP:	CAB4242
ANALYST:	ALG3788

BACKGROUNI	CPM	ALPHA	BETA
3A-1	DET1	0.071	1.51
3A-2	DET2	0.075	1.66
3A-3	DET3	0.043	1.44
3A-4	DET4	0.056	1.52
3B-1	DET5	0.040	0.98
3B-2	DET6	0.033	0.96
3B-3	DET7	0.097	0.93
3B-4	DET8	0.051	1.78
3C-1	DET9	0.057	1.09
3C-2	DET10	0.038	1.57
3C-3	DET11	0.051	1.37
3C-4	DET12	0.043	1.05
3D-1	DET13	0.122	1.03
3D-2	DET14	0.060	1.03
3D-3	DET15	0.073	1.06
3D-4	DET16	0.110	1.21

COUNT DATE/TIME	SAMPLE ID	SAMPLI VOL(mL	TARE WEIGHT GRAMS	GROSS WEIGHT GRAMS	NET WT. mg	ALPHA EFF	BETA EFF	DET NO.	ALPHA BKG	BETA BKG	ALPHA COUNTS	BETA COUNTS	COUNT TIME	ALPHA Lc	BETA Lc	ALPHA MDA	BETA MDA	Th-230 Std Xtalk	DET (1-8) Th-230 Std Xtalk	DET (9-16) Th-230 Std Xtalk
=======	=======	======	=======	=======	=====	=====	=====	======	======	======	=====	======	======	======	======	======	======	======		
2/7/25 12:01	ALPHA ICV	1000			0.0	28.6	45.7	1	0.071	1.51	31046	14705	5	0.311	0.897	1.566	2.380	0.437	0.437	NA
2/7/25 12:01	ALPHA ICV	1000			0.0	30.7	47.0	2	0.075	1.66	32059	13943	5	0.297	0.912	**1.474**	**2.393**	0.370	0.370	NA
2/7/25 12:01	ALPHA ICV	1000			0.0	29.5	46.2	3	0.043	1.44	30886	14057	5	0.234	0.867	**1.382**	**2.315**	0.403	0.403	NA
2/7/25 12:01	ALPHA ICV	1000			0.0	28.2	46.4	4	0.056	1.52	29925	16652	5	0.280	0.885	**1.517**	**2.346**	0.471	0.471	NA
2/7/25 12:07	ALPHA ICV	1000			0.0	30.2	46.7	5	0.040	0.98	32677	13395	5	0.221	0.706	**1.334**	**1.986**	0.372	0.372	NA
2/7/25 23:32	ALPHA ICV	1000			0.0	29.1	46.1	6	0.033	0.96	29873	14441	5	0.208	0.709	**1.344**	**1.999**	0.403	0.403	NA
2/7/25 12:07	ALPHA ICV	1000			0.0	30.5	47.1	7	0.097	0.93	30919	14100	5	0.340	0.681	**1.563**	**1.933**	0.363	0.363	NA
2/7/25 12:07	ALPHA ICV	1000			0.0	29.1	46.1	8	0.051	1.78	30492	14903	5	0.258	0.965	**1.442**	**2.511**	0.391	0.391	NA
2/7/25 12:13	ALPHA ICV	1000			0.0	29.5	47.1	9	0.057	1.09	31176	14006	5	0.270	0.740	**1.455**	**2.049**	0.400	NA	0.400
2/7/25 12:13	ALPHA ICV	1000			0.0	29.7	46.7	10	0.038	1.57	31862	13815	5	0.218	0.895	**1.345**	**2.364**	0.402	NA	0.402
2/7/25 12:13	ALPHA ICV	1000			0.0	29.8	47.5	11	0.051	1.37	32180	14145	5	0.252	0.822	**1.408**	**2.208**	0.397	NA	0.397
2/7/25 12:13	ALPHA ICV	1000			0.0	29.7	46.5	12	0.043	1.05	31243	13907	5	0.233	0.732	**1.375**	**2.041**	0.396	NA	0.396
2/7/25 23:32	ALPHA ICV	1000			0.0	30.2	47.1	13	0.122	1.03	30635	14466	5	0.386	0.716	**1.665**	**2.002**	0.363	NA	0.363
2/7/25 12:22	ALPHA ICV	1000			0.0	30.4	46.7	14	0.060	1.03	31692	13763	5	0.269	0.723	**1.427**	**2.021**	0.366	NA	0.366
2/7/25 12:22	ALPHA ICV	1000			0.0	30.4	46.4	15	0.073	1.06	31462	14081	5	0.296	0.739	**1.480**	**2.055**	0.356	NA	0.356
2/7/25 12:22	ALPHA ICV	1000			0.0	30.3	46.5	16	0.110	1.21	32377	13598	5	0.364	0.790	**1.618**	**2.157**	0.359	NA	0.359
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA

GROSS ALPHA AND GROSS BETA DATA REPORT

EPA 900/9310

0

SAMPLE ID	GROSS ALPHA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	GROSS BETA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	PREP DATE	ANALYSIS DATE	True Value: 10117 % Recov:
ALPHA ICV	9792.742	108.934	#DIV/0!	0.311	1.566	1.315	224.229	46.903	#DIV/0!	0.897	2.380	1.510	2/7/25 0:00	2/7/25 12:01	0.96795
ALPHA ICV	9412.607	103.038	#DIV/0!	0.297	1.474	1.229	397.054	44.344	#DIV/0!	0.912	2.393	1.512	2/7/25 0:00	2/7/25 12:01	0.93038
ALPHA ICV	9422.632	105.088	#DIV/0!	0.234	1.382	1.235	311.651	45.373	#DIV/0!	0.867	2.315	1.471	2/7/25 0:00	2/7/25 12:01	0.93137
ALPHA ICV	9563.733	108.361	#DIV/0!	0.280	1.517	1.312	497.832	49.106	#DIV/0!	0.885	2.346	1.488	2/7/25 0:00	2/7/25 12:01	0.94531
ALPHA ICV	9742.383	105.634	#DIV/0!	0.221	1.334	1.202	236.096	43.747	#DIV/0!	0.706	1.986	1.287	2/7/25 0:00	2/7/25 12:07	0.96297
ALPHA ICV	9248.905	104.884	#DIV/0!	0.208	1.344	1.239	467.623	46.008	#DIV/0!	0.709	1.999	1.297	2/7/25 0:00	2/7/25 23:32	0.91419
ALPHA ICV	9122.758	101.690	#DIV/0!	0.340	1.563	1.263	550.864	44.555	#DIV/0!	0.681	1.933	1.257	2/7/25 0:00	2/7/25 12:07	0.90173
ALPHA ICV	9425.948	105.802	#DIV/0!	0.258	1.442	1.262	578.978	46.823	#DIV/0!	0.965	2.511	1.582	2/7/25 0:00	2/7/25 12:07	0.93169
ALPHA ICV	9528.185	105.770	#DIV/0!	0.270	1.455	1.256	290.270	44.374	#DIV/0!	0.740	2.049	1.320	2/7/25 0:00	2/7/25 12:13	0.9418
ALPHA ICV	9655.331	106.021	#DIV/0!	0.218	1.345	1.219	191.581	44.493	#DIV/0!	0.895	2.364	1.497	2/7/25 0:00	2/7/25 12:13	0.95437
ALPHA ICV	9714.100	106.138	#DIV/0!	0.252	1.408	1.232	256.718	44.240	#DIV/0!	0.822	2.208	1.406	2/7/25 0:00	2/7/25 12:13	0.96018
ALPHA ICV	9484.013	105.166	#DIV/0!	0.233	1.375	1.228	294.879	44.752	#DIV/0!	0.732	2.041	1.318	2/7/25 0:00	2/7/25 12:13	0.93743
ALPHA ICV	9146.164	102.423	#DIV/0!	0.386	1.665	1.307	638.463	45.066	#DIV/0!	0.716	2.002	1.294	2/7/25 0:00	2/7/25 23:32	0.90404
ALPHA ICV	9406.036	103.560	#DIV/0!	0.269	1.427	1.224	414.999	44.345	#DIV/0!	0.723	2.021	1.306	2/7/25 0:00	2/7/25 12:22	0.92973
ALPHA ICV	9323.930	103.031	#DIV/0!	0.296	1.480	1.238	556.375	45.162	#DIV/0!	0.739	2.055	1.326	2/7/25 0:00	2/7/25 12:22	0.92161
ALPHA ICV	9616.238	104.750	#DIV/0!	0.364	1.618	1.287	384.230	44.328	#DIV/0!	0.790	2.157	1.382	2/7/25 0:00	2/7/25 12:22	0.9505
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	

SGD GROUP:	
METHOD	**EPA 900/9310**
PREP DATE:	**2/7/2025 0:00**
PREP:	**CAB4242**
ANALYST:	**ALG3788**

BACKGROUNI	CPM	ALPHA	BETA
3A-1	DET1	0.071	1.51
3A-2	DET2	0.075	1.66
3A-3	DET3	0.043	1.44
3A-4	DET4	0.056	1.52
3B-1	DET5	0.040	0.98
3B-2	DET6	0.033	0.96
3B-3	DET7	0.097	0.93
3B-4	DET8	0.051	1.78
3C-1	DET9	0.057	1.09
3C-2	DET10	0.038	1.57
3C-3	DET11	0.051	1.37
3C-4	DET12	0.043	1.05
3D-1	DET13	0.122	1.03
3D-2	DET14	0.060	1.03
3D-3	DET15	0.073	1.06
3D-4	DET16	0.110	1.21

COUNT DATE/TIME	SAMPLE ID	SAMPLI VOL(mL	TARE WEIGHT GRAMS	GROSS WEIGHT GRAMS	NET WT. mg	ALPHA EFF	BETA EFF	DET NO.	ALPHA BKG	BETA BKG	ALPHA COUNTS	BETA COUNTS	COUNT TIME	ALPHA Lc	BETA Lc	ALPHA MDA	BETA MDA	Th-230 Std Xtalk	DET (1-8) Th-230 Std Xtalk	DET (9-16) Th-230 Std Xtalk
=======	=======	======	=======	=======	=====	=====	=====	======	======	======	=====	======	======	======	======	======	======	======		
2/7/25 23:54	BETA ICV	1000			0.0	28.6	45.7	1	0.071	1.51	13	17789	5	0.311	0.897	1.566	2.380	0.437	0.437	NA
2/7/25 15:51	BETA ICV	1000			0.0	30.7	47.0	2	0.075	1.66	125	18376	5	0.297	0.912	**1.474**	**2.393**	0.370	0.370	NA
2/7/25 15:51	BETA ICV	1000			0.0	29.5	46.2	3	0.043	1.44	8	17713	5	0.234	0.867	**1.382**	**2.315**	0.403	0.403	NA
2/7/25 15:51	BETA ICV	1000			0.0	28.2	46.4	4	0.056	1.52	9	18117	5	0.280	0.885	**1.517**	**2.346**	0.471	0.471	NA
2/7/25 23:54	BETA ICV	1000			0.0	30.2	46.7	5	0.040	0.98	104	17980	5	0.221	0.706	**1.334**	**1.986**	0.372	0.372	NA
2/7/25 23:00	BETA ICV	1000			0.0	29.1	46.1	6	0.033	0.96	5	16379	5	0.208	0.709	**1.344**	**1.999**	0.403	0.403	NA
2/7/25 15:51	BETA ICV	1000			0.0	30.5	47.1	7	0.097	0.93	30	18538	5	0.340	0.681	**1.563**	**1.933**	0.363	0.363	NA
2/7/25 15:51	BETA ICV	1000			0.0	29.1	46.1	8	0.051	1.78	12	18208	5	0.258	0.965	**1.442**	**2.511**	0.391	0.391	NA
2/7/25 15:52	BETA ICV	1000			0.0	29.5	47.1	9	0.057	1.09	13	17522	5	0.270	0.740	**1.455**	**2.049**	0.400	NA	0.400
2/7/25 15:52	BETA ICV	1000			0.0	29.7	46.7	10	0.038	1.57	15	17298	5	0.218	0.895	**1.345**	**2.364**	0.402	NA	0.402
2/7/25 15:52	BETA ICV	1000			0.0	29.8	47.5	11	0.051	1.37	29	18336	5	0.252	0.822	**1.408**	**2.208**	0.397	NA	0.397
2/7/25 23:00	BETA ICV	1000			0.0	29.7	46.5	12	0.043	1.05	51	17115	5	0.233	0.732	**1.375**	**2.041**	0.396	NA	0.396
2/7/25 23:01	BETA ICV	1000			0.0	30.2	47.1	13	0.122	1.03	15	17705	5	0.386	0.716	**1.665**	**2.002**	0.363	NA	0.363
2/7/25 15:57	BETA ICV	1000			0.0	30.4	46.7	14	0.060	1.03	105	17926	5	0.269	0.723	**1.427**	**2.021**	0.366	NA	0.366
2/7/25 15:57	BETA ICV	1000			0.0	30.4	46.4	15	0.073	1.06	25	17634	5	0.296	0.739	**1.480**	**2.055**	0.356	NA	0.356
2/7/25 15:57	BETA ICV	1000			0.0	30.3	46.5	16	0.110	1.21	118	18174	5	0.364	0.790	**1.618**	**2.157**	0.359	NA	0.359
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA

GROSS ALPHA AND GROSS BETA DATA REPORT

EPA 900/9310

0

SAMPLE ID	GROSS ALPHA pCi/l						GROSS BETA pCi/l						PREP DATE	ANALYSIS DATE	True Value: 3547.52
	result	**2σCE**	**TPU**	**Lc**	MDA/MDC	**SDWA**	**result**	**2σCE**	**TPU**	**Lc**	MDA/MDC	**SDWA**			**% Recov:**
BETA ICV	3.989	2.259	#DIV/0!	0.311	1.566	1.315	3506.965	51.585	#DIV/0!	0.897	2.380	1.510	2/7/25 0:00	2/7/25 23:54	0.98857
BETA ICV	36.591	6.444	#DIV/0!	0.297	1.474	1.229	3509.413	50.904	#DIV/0!	0.912	2.393	1.512	2/7/25 0:00	2/7/25 15:51	0.98926
BETA ICV	2.375	1.714	#DIV/0!	0.234	1.382	1.235	3455.593	50.930	#DIV/0!	0.867	2.315	1.471	2/7/25 0:00	2/7/25 15:51	0.97409
BETA ICV	2.787	1.908	#DIV/0!	0.280	1.517	1.312	3514.386	51.220	#DIV/0!	0.885	2.346	1.488	2/7/25 0:00	2/7/25 15:51	0.99066
BETA ICV	30.947	5.965	#DIV/0!	0.221	1.334	1.202	3458.447	50.682	#DIV/0!	0.706	1.986	1.287	2/7/25 0:00	2/7/25 23:54	0.97489
BETA ICV	1.497	1.379	#DIV/0!	0.208	1.344	1.239	3197.490	48.997	#DIV/0!	0.709	1.999	1.297	2/7/25 0:00	2/7/25 23:00	0.90133
BETA ICV	8.709	3.193	#DIV/0!	0.340	1.563	1.263	3545.355	51.086	#DIV/0!	0.681	1.933	1.257	2/7/25 0:00	2/7/25 15:51	0.99939
BETA ICV	3.631	2.121	#DIV/0!	0.258	1.442	1.262	3559.394	51.752	#DIV/0!	0.965	2.511	1.582	2/7/25 0:00	2/7/25 15:51	1.00335
BETA ICV	3.886	2.183	#DIV/0!	0.270	1.455	1.256	3349.249	49.630	#DIV/0!	0.740	2.049	1.320	2/7/25 0:00	2/7/25 15:52	0.94411
BETA ICV	4.488	2.315	#DIV/0!	0.218	1.345	1.219	3337.178	49.783	#DIV/0!	0.895	2.364	1.497	2/7/25 0:00	2/7/25 15:52	0.94071
BETA ICV	8.677	3.200	#DIV/0!	0.252	1.408	1.232	3475.499	50.366	#DIV/0!	0.822	2.208	1.406	2/7/25 0:00	2/7/25 15:52	0.9797
BETA ICV	15.416	4.258	#DIV/0!	0.233	1.375	1.228	3308.194	49.644	#DIV/0!	0.732	2.041	1.318	2/7/25 0:00	2/7/25 23:00	0.93254
BETA ICV	4.296	2.312	#DIV/0!	0.386	1.665	1.307	3382.042	49.855	#DIV/0!	0.716	2.002	1.294	2/7/25 0:00	2/7/25 23:01	0.95335
BETA ICV	31.075	5.969	#DIV/0!	0.269	1.427	1.224	3448.113	50.608	#DIV/0!	0.723	2.021	1.306	2/7/25 0:00	2/7/25 15:57	0.97198
BETA ICV	7.301	2.925	#DIV/0!	0.296	1.480	1.238	3420.760	50.538	#DIV/0!	0.739	2.055	1.326	2/7/25 0:00	2/7/25 15:57	0.96427
BETA ICV	34.884	6.338	#DIV/0!	0.364	1.618	1.287	3514.643	51.244	#DIV/0!	0.790	2.157	1.382	2/7/25 0:00	2/7/25 15:57	0.99073
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	

G542 Unit 4
Calibration 07/24

	High Voltage	Changed?	Chi Sq Passed?	Notes
A Drawer	1760	(Y)/N	(Y)/N	
B Drawer	1760	(Y)/N	(Y)/N	
C Drawer	1780	(Y)/N	(Y)/N	
D Drawer	1760	(Y)/N	(Y)/N	4D-4 OOS

Comments:

Collected by: _____ Date: 7/26/24

Approved by: _____ Date: 7/29/24

Detector Names Unit 4:

Numerical:	Instrument:	PACE:
1	1A	4A-1
2	1B	4A-2
3	1C	4A-3
4	1D	4A-4
5	2A	4B-1
6	2B	4B-2
7	2C	4B-3
8	2D	4B-4
9	3A	4C-1
10	3B	4C-2
11	3C	4C-3
12	3D	4C-4
13	4A	4D-1
14	4B	4D-2
15	4C	4D-3
16	4D	4D-4

Standards Used:

23F04840	23F04832	23F04838	23F04831
23F04828	23F04839	23F04841	23F04834
23F04836	23F04835		23F04827

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer A

7/8/2024

4A-1=	Det1=	1A				4A-2=	Det2=	1B			
	Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
	1500	1336	1336	0			1500	1467	1467	0	
	1520	1697	1696	1			1520	1677	1675	2	
	1540	1834	1833	1			1540	1971	1967	4	
	1560	2130	2128	2			1560	2312	2307	5	
	1580	2358	2355	3			1580	2613	2611	2	
	1600	2553	2551	2			1600	2756	2754	2	
	1620	2828	2827	1			1620	3014	3012	2	
	1640	2960	2956	4			1640	3181	3180	1	
	1660	3156	3154	2			1660	3370	3369	1	
	1680	3252	3248	4			1680	3546	3545	1	
	1700	3283	3282	1			1700	3567	3566	1	
	1720	3321	3318	3			1720	3594	3591	3	
	1740	3391	3388	3			1740	3623	3617	6	
	1760	3443	3426	17	0.50%		1760	3716	3697	19	0.51%
	1780	3441	3411	30	0.88%		1780	3799	3754	45	1.20%
	1800	3397	3308	89			1800	3707	3614	93	
	1820	3471	3367	104			1820	3722	3601	121	
	1840	3408	3305	103			1840	3780	3681	99	
	1860	3422	3317	105			1860	3778	3655	123	
	1880	3549	3418	131			1880	3707	3605	102	
	1900	3442	3338	104			1900	3886	3766	120	
	1920	3430	3322	108			1920	3874	3739	135	
	1940	3353	3262	90			1940	3806	3687	119	
	1960	3472	3372	100			1960	3739	3620	119	
	1980	3432	3320	112			1980	3679	3576	103	
	2000	3473	3367	106			2000	3717	3584	133	
	1740	0.77%	26				1740	1.32%	48		
Slope Calc:	1760	1.45%	49				1760	0.27%	10		
	1780	2.46%	83				1780	1.75%	64		
	1800	3.25%	109				1800	1.15%	42		

4A-3=	Det3=	1C				4A-4=	Det4=	1D			
	Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
	1500	1704	1704	0			1500	1860	4860	0	
	1520	2030	2027	3			1520	2095	2094	1	
	1540	2260	2259	1			1540	2468	2468	0	
	1560	2549	2548	1			1560	2644	2644	0	
	1580	2870	2870	0			1580	2968	2968	0	
	1600	2809	2808	1			1600	3123	3121	2	
	1620	3254	3251	3			1620	3186	3185	1	
	1640	3340	3338	2			1640	3448	3448	0	
	1660	3406	3404	2			1660	3501	3501	0	
	1680	3535	3532	3			1680	3578	3577	1	
	1700	3525	3522	3			1700	3638	3636	2	
	1720	3625	3620	5			1720	3666	3664	2	
	1740	3652	3647	5			1740	3672	3670	2	
	1760	3709	3678	31	0.84%		1760	3835	3827	8	0.21%
	1780	3736	3674	62	1.69%		1780	3793	3771	22	0.58%
	1800	3746	3624	122			1800	3898	3858	40	
	1820	3725	3600	125			1820	3756	3691	65	
	1840	3662	3529	133			1840	3759	3696	63	
	1860	3816	3680	136			1860	3899	3827	72	
	1880	3921	3777	144			1880	3800	3729	71	
	1900	3782	3633	149			1900	3877	3811	66	
	1920	3803	3674	129			1920	3803	3723	80	
	1940	3848	3713	135			1940	3768	3714	54	
	1960	3653	3506	147			1960	3699	3625	74	
	1980	3697	3552	144			1980	3776	3714	62	
	2000	3785	3617	168			2000	3749	3690	59	
	1740	2.81%	102				1740	5.94%	222		
	1760	0.55%	20				1760	0.72%	27		
	1780	3.25%	118				1780	0.69%	26		
	1800	0.06%	2				1800	0.00%	0		

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer B

7/8/2024

4B-1= Det5= 2A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1299	1299	0	
1520	1515	1513	2	
1540	1675	1673	2	
1560	1965	1964	1	
1580	2414	2413	1	
1600	2395	2394	1	
1620	2795	2795	0	
1640	3041	3041	0	
1660	3324	3321	3	
1680	3414	3412	2	
1700	3425	3423	2	
1720	3565	3564	1	
1740	3630	3629	1	
1760	3548	3544	4	0.11%
1780	3707	3696	11	0.30%
1800	3658	3633	25	
1820	3652	3617	35	
1840	3786	3753	33	
1860	3621	3588	33	
1880	3606	3575	31	
1900	3692	3654	38	
1920	3745	3712	33	
1940	3704	3670	34	
1960	3802	3768	34	
1980	3729	3696	33	
2000	3644	3614	30	

4B-2= Det6= 2B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1750	1750	0	
1520	1997	1996	1	
1540	2351	2351	0	
1560	2654	2652	2	
1580	2897	2896	1	
1600	3146	3143	3	
1620	3228	3226	2	
1640	3449	3448	1	
1660	3371	3370	1	
1680	3636	3635	1	
1700	3602	3599	3	
1720	3702	3701	1	
1740	3639	3636	3	
1760	3679	3675	4	0.11%
1780	3753	3740	13	0.35%
1800	3815	3778	37	
1820	3802	3766	36	
1840	3842	3798	44	
1860	3774	3736	38	
1880	3851	3806	45	
1900	3862	3810	52	
1920	3769	3735	34	
1940	3822	3777	45	
1960	3744	3696	48	
1980	3968	3925	43	
2000	3765	3724	41	

4B-3= Det7= 2C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2332	2331	1	
1520	2596	2594	2	
1540	2973	2971	2	
1560	3164	3164	0	
1580	3349	3348	1	
1600	3462	3460	2	
1620	3508	3506	2	
1640	3512	3510	2	
1660	3679	3676	3	
1680	3705	3705	0	
1700	3658	3652	6	
1720	3793	3790	3	
1740	3761	3742	19	
1760	3860	3791	69	1.82%
1780	3873	3768	105	2.79%
1800	3819	3651	168	
1820	3869	3654	215	
1840	3828	3605	223	
1860	3884	3687	197	
1880	3898	3670	228	
1900	3896	3726	169	
1920	3793	3626	167	
1940	3961	3756	205	
1960	3814	3628	185	
1980	3845	3638	207	
2000	3847	3669	178	

4B-4= Det8= 2D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1889	1889	0	
1520	2196	2196	0	
1540	2391	2390	1	
1560	2690	2689	1	
1580	2790	2789	1	
1600	2991	2991	0	
1620	2117	3114	3	
1640	2140	3139	1	
1660	3223	3221	2	
1680	3376	3374	2	
1700	3257	3255	2	
1720	3346	3335	11	
1740	3428	3410	18	
1760	3405	3366	39	1.16%
1780	3394	3301	93	2.82%
1800	3539	3385	153	
1820	3475	3296	179	
1840	3395	3234	161	
1860	3312	3133	178	
1880	3457	3275	181	
1900	3401	3236	165	
1920	3484	3305	179	
1940	3396	3202	193	
1960	3585	3387	198	
1980	3491	3319	172	
2000	3391	3216	175	

Slope Calc:

1760	1.47%	53		1760	1.75%	65		1760	3.64%	136		1760	1.16%	39
1780	3.40%	124		1780	4.34%	162		1780	3.70%	137		1780	5.28%	176
1800	1.21%	44		1800	1.63%	61		1800	2.82%	104		1800	7.09%	233
1820	3.32%	121		1820	1.75%	66		1820	2.67%	98		1820	0.79%	26

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer C

7/8/2024

4C-1= Det9= 3A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	754	754	0	
1520	952	952	0	
1540	1206	1206	0	
1560	1415	1414	1	
1580	1643	1643	0	
1600	1835	1835	0	
1620	2197	2193	4	
1640	2385	2385	0	
1660	2566	2566	0	
1680	2789	2787	2	
1700	2837	2835	2	
1720	2882	2881	1	
1740	3144	3142	2	
1760	3290	3286	4	0.12%
1780	3183	3181	2	0.06%
1800	3151	3146	5	
1820	3295	3288	7	
1840	3358	3344	14	
1860	3185	3170	15	
1880	3225	3214	11	
1900	3241	3228	13	
1920	3277	3266	11	
1940	3384	3374	10	
1960	3428	3419	9	
1980	3319	3310	9	
2000	3284	3276	8	

1740	14.57%	453	
1760	14.55%	463	
Slope Calc: 1780	0.87%	28	
1800	2.23%	72	
1820	1.46%	47	
1840	3.71%	120	

4C-2= Det10= 3B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1273	1273	0	
1520	1519	1519	0	
1540	1856	1856	0	
1560	2167	2166	1	
1580	2332	2330	2	
1600	2527	2527	0	
1620	2853	2852	1	
1640	2981	2980	1	
1660	3165	3162	3	
1680	3302	3300	2	
1700	3413	3411	2	
1720	3431	3428	3	
1740	3578	3573	5	
1760	3579	3571	8	0.22%
1780	3608	3579	29	0.81%
1800	3679	3613	66	
1820	3634	3563	71	
1840	3677	3597	80	
1860	3655	3581	74	
1880	3551	3478	73	
1900	3807	3728	79	
1920	3630	3565	65	
1940	3606	3549	57	
1960	3631	3554	77	
1980	3728	3664	64	
2000	3811	3744	67	

1740	4.30%	152	
1760	4.75%	169	
1780	0.22%	8	
1800	2.61%	93	
1820	4.15%	149	
1840	1.34%	48	

4C-3= Det11= 3C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1365	1363	2	
1520	1608	1606	2	
1540	1897	1896	1	
1560	2182	2182	0	
1580	2496	2495	1	
1600	2604	2603	1	
1620	2792	2789	3	
1640	3135	3135	0	
1660	3276	3274	2	
1680	3434	3429	5	
1700	3562	3559	3	
1720	3460	3456	4	
1740	3628	3620	8	
1760	3625	3610	15	0.42%
1780	3662	3635	27	0.74%
1800	3680	3622	58	
1820	3653	3563	90	
1840	3607	3528	79	
1860	3705	3611	94	
1880	3646	3563	83	
1900	3697	3626	71	
1920	3713	3638	75	
1940	3709	3620	89	
1960	3681	3618	63	
1980	3648	3569	79	
2000	3649	3582	67	

1740	0.11%	4	
1760	2.01%	72	
1780	0.25%	9	
1800	1.31%	47	
1820	0.25%	9	
1840	0.45%	16	

4C-4= Det12= 3D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1435	1435	0	
1520	1685	1682	3	
1540	1870	1870	0	
1560	2204	2204	0	
1580	2516	2515	1	
1600	2767	2766	1	
1620	2954	2953	1	
1640	3097	3096	1	
1660	3337	3334	3	
1680	3411	3405	6	
1700	3485	3483	2	
1720	3548	3545	3	
1740	3629	3625	4	
1760	3562	3553	9	0.25%
1780	3650	3607	43	1.19%
1800	3660	3581	79	
1820	3654	3541	113	
1840	3673	3566	107	
1860	3614	3507	107	
1880	3810	3705	105	
1900	3558	3473	85	
1920	3709	3604	105	
1940	3688	3584	104	
1960	3693	3596	97	
1980	3518	3425	93	
2000	3671	3555	116	

1740	1.63%	58	
1760	0.59%	21	
1780	3.31%	118	
1800	4.25%	152	
1820	3.76%	134	
1840	0.64%	23	

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer D

7/8/2024

4D-1= Det13= 4A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1897	1896	1	
1520	2136	2136	0	
1540	2462	2460	2	
1560	2698	2698	0	
1580	2958	2958	0	
1600	3107	3106	1	
1620	3250	3247	3	
1640	3353	3349	4	
1660	3472	3471	1	
1680	3517	3514	3	
1700	3561	3559	2	
1720	3496	3493	3	
1740	3642	3629	13	
1760	3789	3764	25	0.66%
1780	3656	3578	78	2.18%
1800	3735	3608	127	3.52%
1820	3689	3529	160	4.53%
1840	3656	3493	163	
1860	3797	3623	174	
1880	3792	3611	181	
1900	3877	3715	162	
1920	3765	3612	153	
1940	3729	3556	173	
1960	3800	3617	183	
1980	3664	3489	175	
2000	3808	3634	174	

1740	1.4%	49	
1760	1.0%	36	
1780	3.8%	136	
1800	3.9%	141	
1820	0.9%	33	

4D-2= Det14= 4B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2096	2095	1	
1520	2391	2390	1	
1540	2719	2717	2	
1560	2989	2987	2	
1580	3092	3090	2	
1600	3234	3233	1	
1620	3313	3312	1	
1640	3557	3555	2	
1660	3596	3595	1	
1680	3634	3631	3	
1700	3809	3806	3	
1720	3630	3630	0	
1740	3778	3772	6	
1760	3724	3707	17	0.46%
1780	3803	3770	33	0.88%
1800	3818	3735	83	2.22%
1820	3819	3733	86	2.30%
1840	3696	3598	98	
1860	3848	3776	72	
1880	3788	3683	105	
1900	3860	3780	80	
1920	3799	3712	87	
1940	3845	3770	75	
1960	3773	3683	90	
1980	3901	3812	89	
2000	3842	3749	93	

1740	1.9%	71	
1760	2.8%	103	
1780	4.7%	174	
1800	1.9%	69	
1820	2.3%	87	

4D-3= Det15= 4C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1493	1492	1	
1520	1702	1700	2	
1540	1975	1975	0	
1560	2257	2253	4	
1580	2523	2523	0	
1600	2755	2754	1	
1620	3046	3044	2	
1640	3158	3158	0	
1660	3442	3441	1	
1680	3476	3474	2	
1700	3402	3401	1	
1720	3574	3573	1	
1740	3664	3663	1	
1760	3563	3558	5	0.14%
1780	3708	3706	2	0.05%
1800	3735	3709	26	0.70%
1820	3768	3726	42	1.13%
1840	3818	3789	29	
1860	3777	3746	31	
1880	3822	3788	34	
1900	3773	3749	24	
1920	3713	3678	35	
1940	3703	3672	31	
1960	3722	3708	14	
1980	3695	3664	31	
2000	3706	3681	25	

1740	8.5%	308	
1760	4.2%	153	
1780	3.4%	126	
1800	5.1%	188	
1820	2.2%	82	

4D-4= Det16= 4D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	582	582	0	
1520	770	769	1	
1540	936	935	1	
1560	1205	1205	0	
1580	1398	1396	2	
1600	1576	1576	0	
1620	1732	1732	0	
1640	2073	2071	2	
1660	2339	2338	1	
1680	2576	2575	1	
1700	2719	2718	1	
1720	2868	2867	1	
1740	3051	3048	3	
1760	3223	3220	3	0.09%
1780	3258	3253	5	0.15%
1800	3307	3303	4	0.12%
1820	3243	3240	3	0.09%
1840	3348	3345	3	
1860	3358	3355	3	
1880	3310	3307	3	
1900	3351	3346	5	
1920	3311	3305	6	
1940	3275	3268	7	
1960	3268	3265	3	
1980	3271	3269	2	
2000	3396	3393	3	

1740	18.9%	585	
1760	11.7%	373	
1780	9.1%	297	
1800	4.1%	135	
1820	1.6%	54	

NOT IN SERVICE

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Sr-90
124007
ESC51613
22J11029

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	01-Jul-24
PREP:	13-Sep-22

Ao =	940.91	nCi				
N =	0.02					
T(1/2) =	28.60	years				
T =	1.85	years				
dilution =	1000.00					
A =	899.65	nCi	SR90/Y90			
A =	1997.22	dpm/ml	3994.4459	399.4446		
A =	899.65	pCi/ml	1799.3			
A =	899.65	+/-	16.207189	pCi/ml	3994.445911	
						11983.33773

Uncertainty	0.0173
Weight	0.05%
Volume (1000 ml)	0.50%

CSU 1.80%

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 14:29
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1336	1336	0
1520	1697	1696	1
1540	1834	1833	1
1560	2130	2128	2
1580	2358	2355	3
1600	2553	2551	2
1620	2828	2827	1
1640	2960	2956	4
1660	3156	3154	2
1680	3252	3248	4
1700	3283	3282	1
1720	3321	3318	3
1740	3391	3388	3
1760	3443	3426	17
1780	3441	3411	30
1800	3397	3308	89
1820	3471	3367	104
1840	3408	3305	103
1860	3422	3317	105
1880	3549	3418	131
1900	3442	3338	104
1920	3430	3322	108
1940	3353	3262	90
1960	3472	3372	100
1980	3432	3320	112
2000	3473	3367	106

Special Notes:

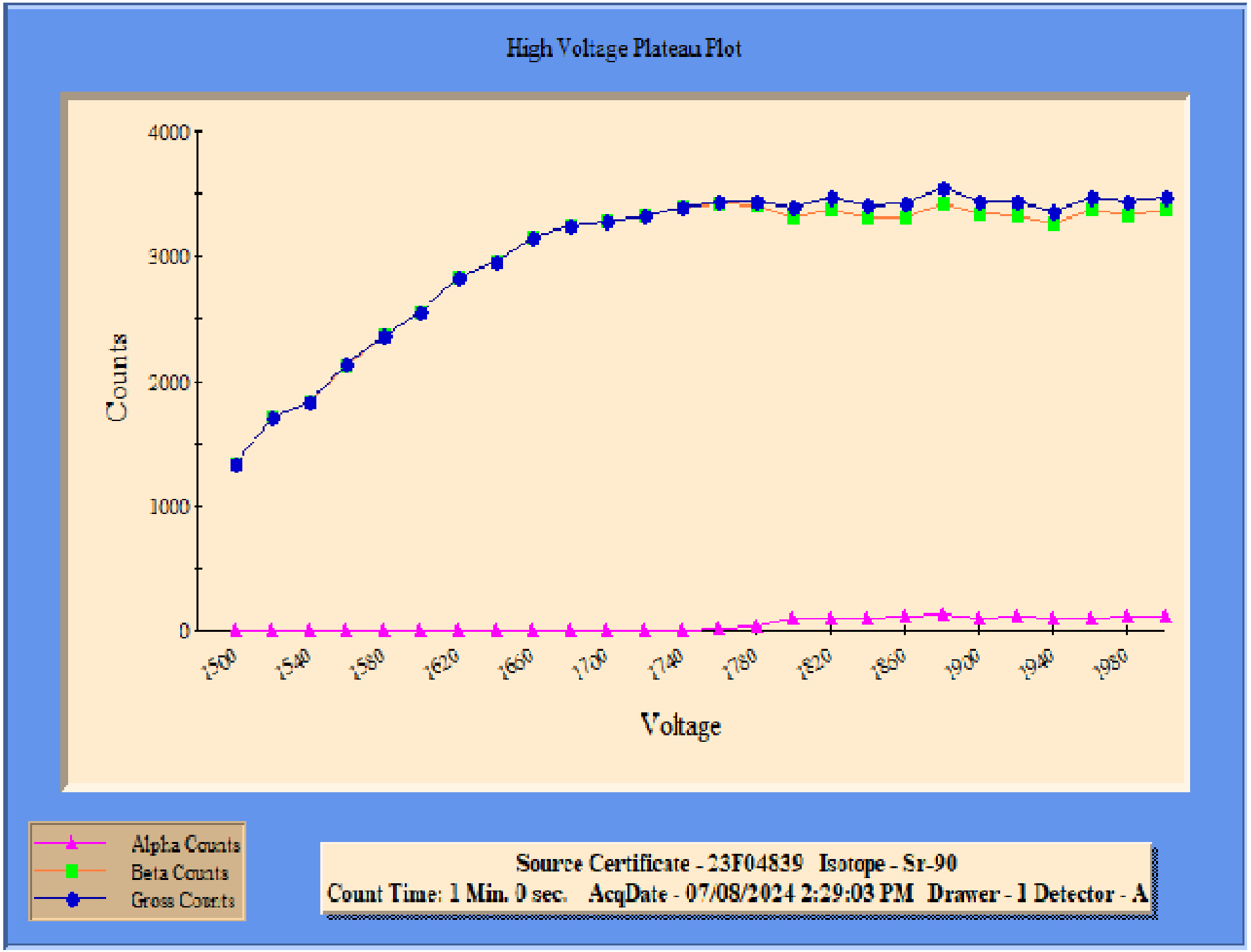
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 2:29:03 PM Drawer - 1 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 15:50
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1467	1467	0
1520	1677	1675	2
1540	1971	1967	4
1560	2312	2307	5
1580	2613	2611	2
1600	2756	2754	2
1620	3014	3012	2
1640	3181	3180	1
1660	3370	3369	1
1680	3546	3545	1
1700	3567	3566	1
1720	3594	3591	3
1740	3623	3617	6
1760	3716	3697	19
1780	3799	3754	45
1800	3707	3614	93
1820	3722	3601	121
1840	3780	3681	99
1860	3778	3655	123
1880	3707	3605	102
1900	3886	3766	120
1920	3874	3739	135
1940	3806	3687	119
1960	3739	3620	119
1980	3679	3576	103
2000	3717	3584	133

Special Notes:

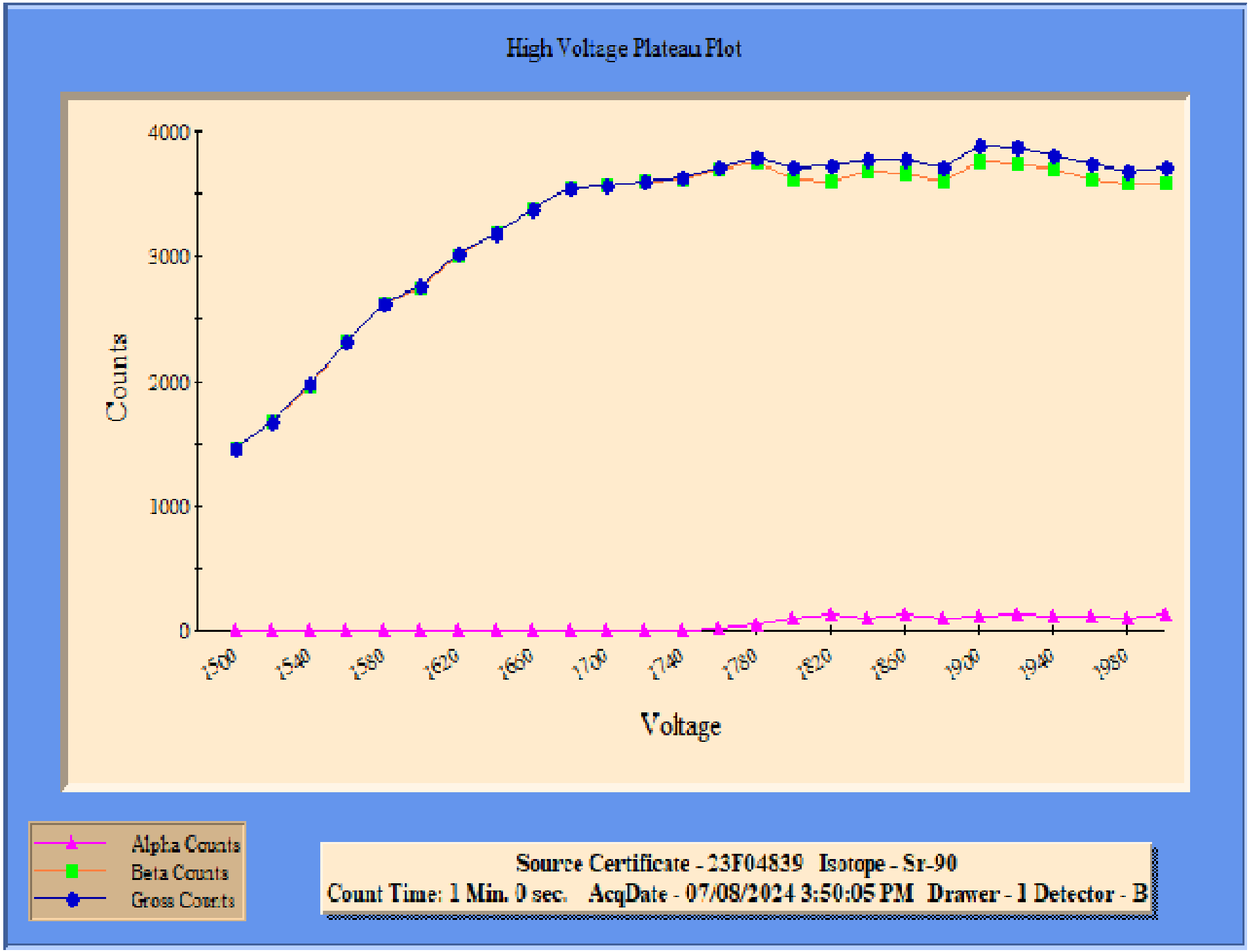
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 3:50:05 PM Drawer - 1 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 16:21
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000

Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1704	1704	0
1520	2030	2027	3
1540	2260	2259	1
1560	2549	2548	1
1580	2870	2870	0
1600	2809	2808	1
1620	3254	3251	3
1640	3340	3338	2
1660	3406	3404	2
1680	3535	3532	3
1700	3525	3522	3
1720	3625	3620	5
1740	3652	3647	5
1760	3709	3678	31
1780	3736	3674	62
1800	3746	3624	122
1820	3725	3600	125
1840	3662	3529	133
1860	3816	3680	136
1880	3921	3777	144
1900	3782	3633	149
1920	3803	3674	129
1940	3848	3713	135
1960	3653	3506	147
1980	3697	3552	144
2000	3785	3617	168

Special Notes:

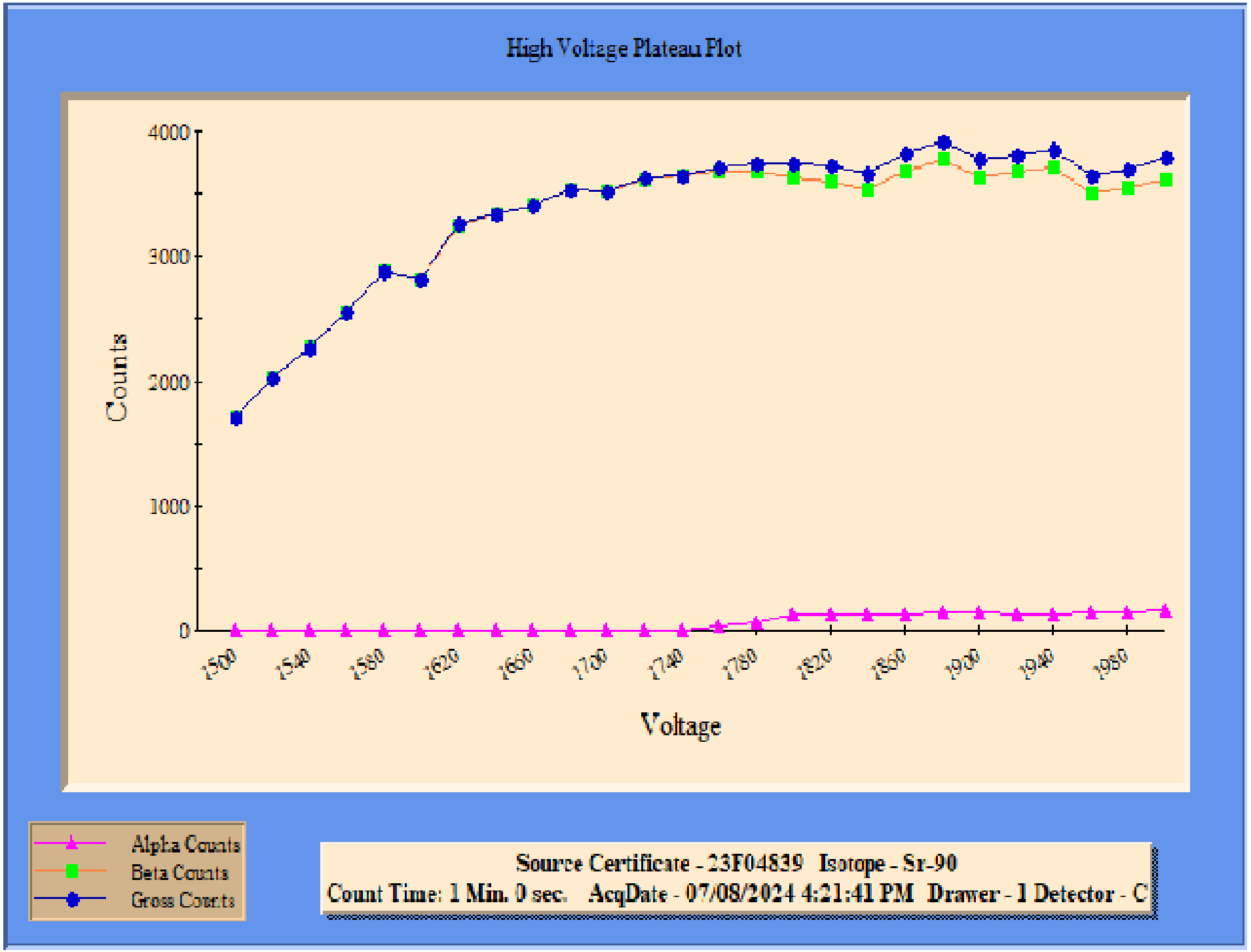
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 4:21:41 PM Drawer - 1 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 16:59
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1860	1860	0
1520	2095	2094	1
1540	2468	2468	0
1560	2644	2644	0
1580	2968	2968	0
1600	3123	3121	2
1620	3186	3185	1
1640	3448	3448	0
1660	3501	3501	0
1680	3578	3577	1
1700	3638	3636	2
1720	3666	3664	2
1740	3672	3670	2
1760	3835	3827	8
1780	3793	3771	22
1800	3898	3858	40
1820	3756	3691	65
1840	3759	3696	63
1860	3899	3827	72
1880	3800	3729	71
1900	3877	3811	66
1920	3803	3723	80
1940	3768	3714	54
1960	3699	3625	74
1980	3776	3714	62
2000	3749	3690	59

Special Notes:

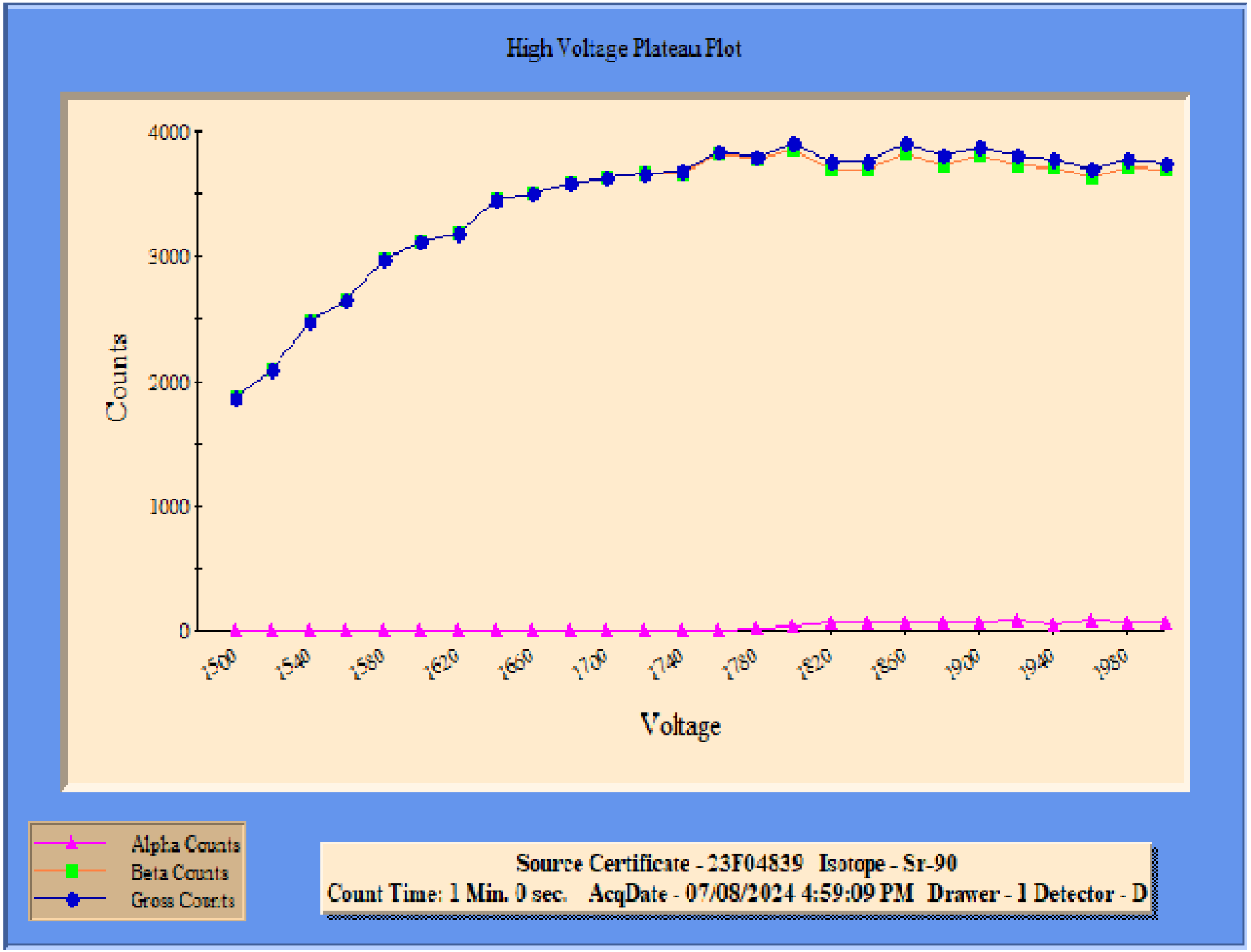
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 4:59:09 PM Drawer - 1 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 17:59
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1299	1299	0
1520	1515	1513	2
1540	1675	1673	2
1560	1965	1964	1
1580	2414	2413	1
1600	2395	2394	1
1620	2795	2795	0
1640	3041	3041	0
1660	3324	3321	3
1680	3414	3412	2
1700	3425	3423	2
1720	3565	3564	1
1740	3630	3629	1
1760	3548	3544	4
1780	3707	3696	11
1800	3658	3633	25
1820	3652	3617	35
1840	3786	3753	33
1860	3621	3588	33
1880	3606	3575	31
1900	3692	3654	38
1920	3745	3712	33
1940	3704	3670	34
1960	3802	3768	34
1980	3729	3696	33
2000	3644	3614	30

Special Notes:

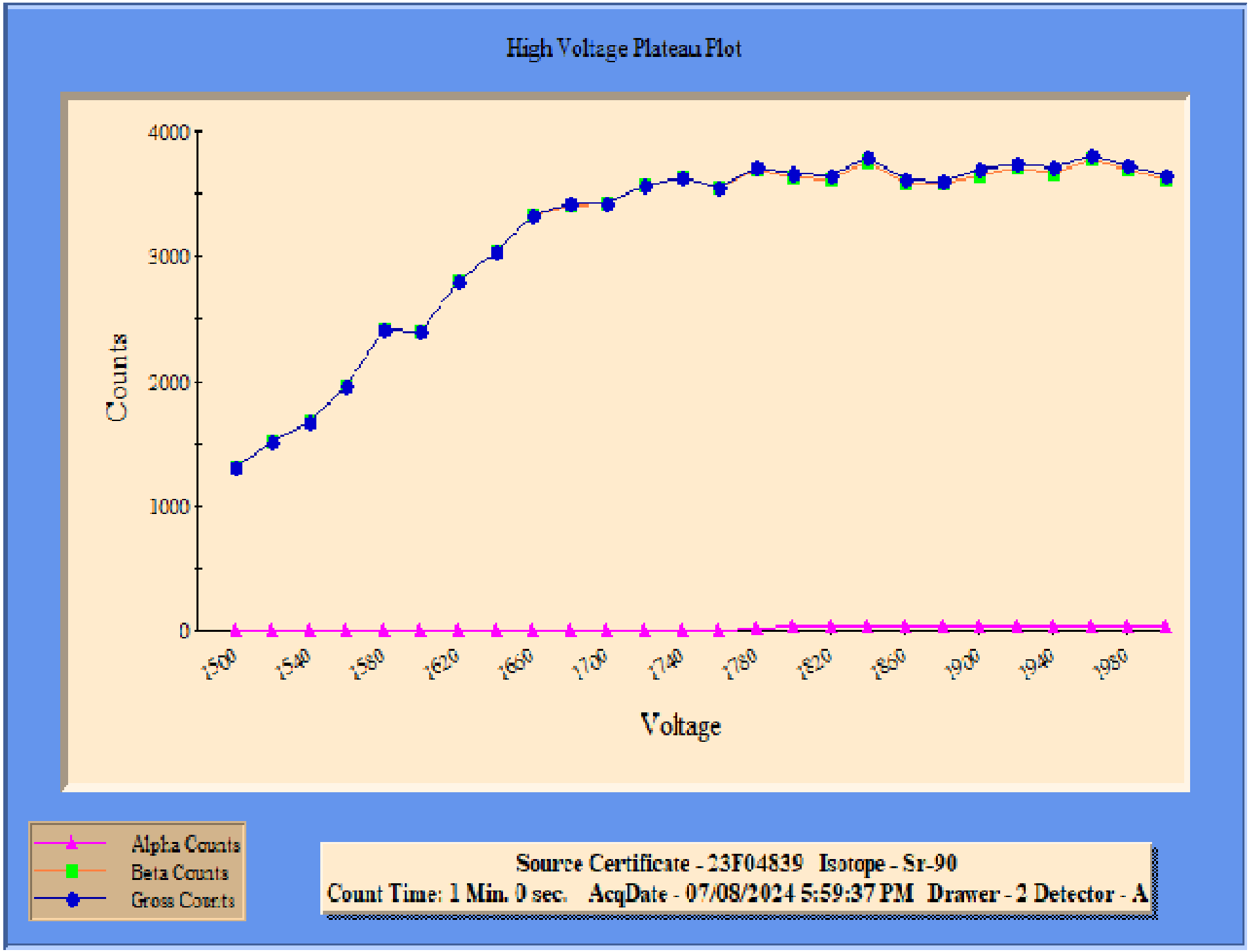
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 5:59:37 PM Drawer - 2 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 18:30
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1750	1750	0
1520	1997	1996	1
1540	2351	2351	0
1560	2654	2652	2
1580	2897	2896	1
1600	3146	3143	3
1620	3228	3226	2
1640	3449	3448	1
1660	3371	3370	1
1680	3636	3635	1
1700	3602	3599	3
1720	3702	3701	1
1740	3639	3636	3
1760	3679	3675	4
1780	3753	3740	13
1800	3815	3778	37
1820	3802	3766	36
1840	3842	3798	44
1860	3774	3736	38
1880	3851	3806	45
1900	3862	3810	52
1920	3769	3735	34
1940	3822	3777	45
1960	3744	3696	48
1980	3968	3925	43
2000	3765	3724	41

Special Notes:

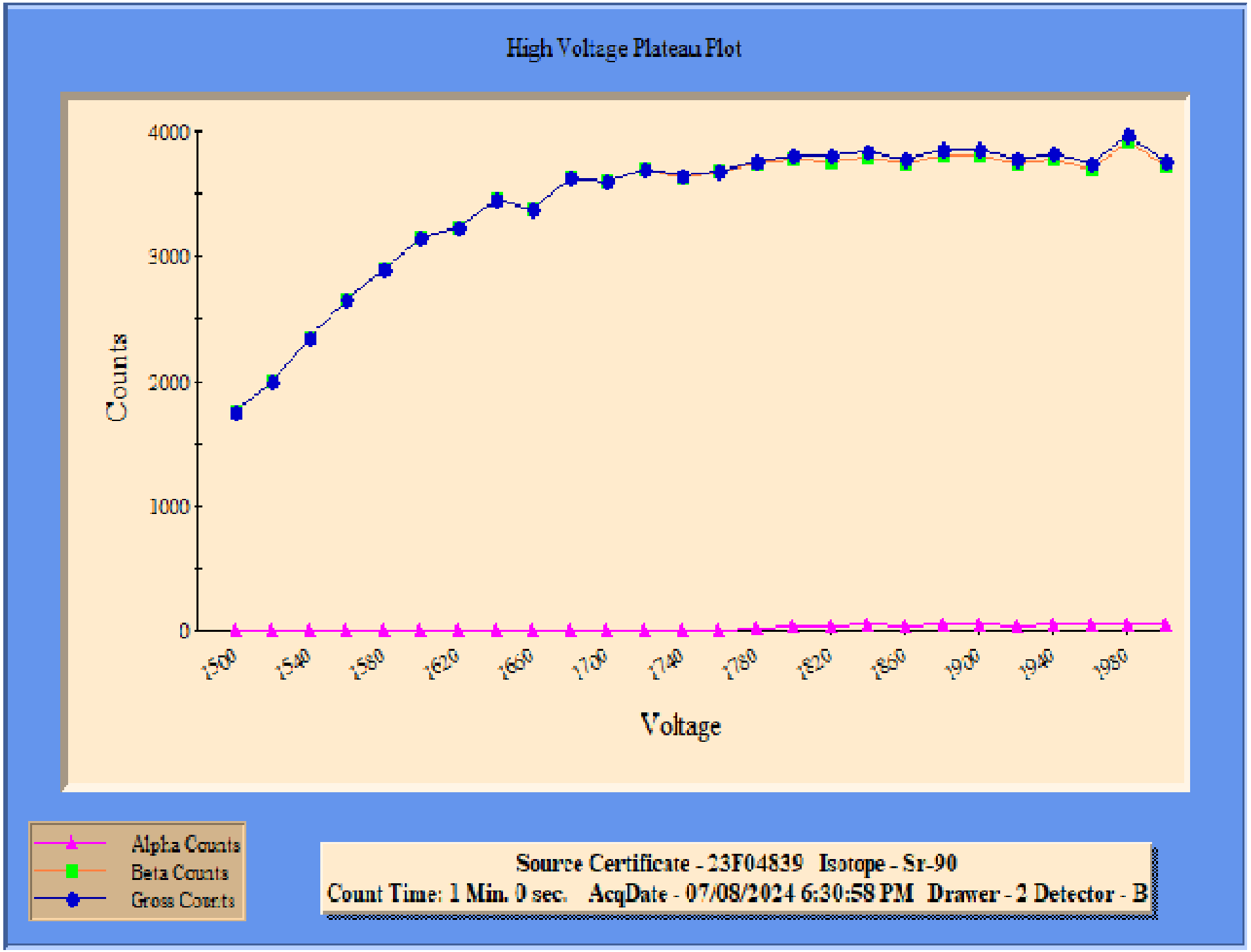
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 6:30:58 PM Drawer - 2 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 18:58
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2332	2331	1
1520	2596	2594	2
1540	2973	2971	2
1560	3164	3164	0
1580	3349	3348	1
1600	3462	3460	2
1620	3508	3506	2
1640	3512	3510	2
1660	3679	3676	3
1680	3705	3705	0
1700	3658	3652	6
1720	3793	3790	3
1740	3761	3742	19
1760	3860	3791	69
1780	3873	3768	105
1800	3819	3651	168
1820	3869	3654	215
1840	3828	3605	223
1860	3884	3687	197
1880	3898	3670	228
1900	3895	3726	169
1920	3793	3626	167
1940	3961	3756	205
1960	3814	3628	185
1980	3845	3638	207
2000	3847	3669	178

Special Notes:

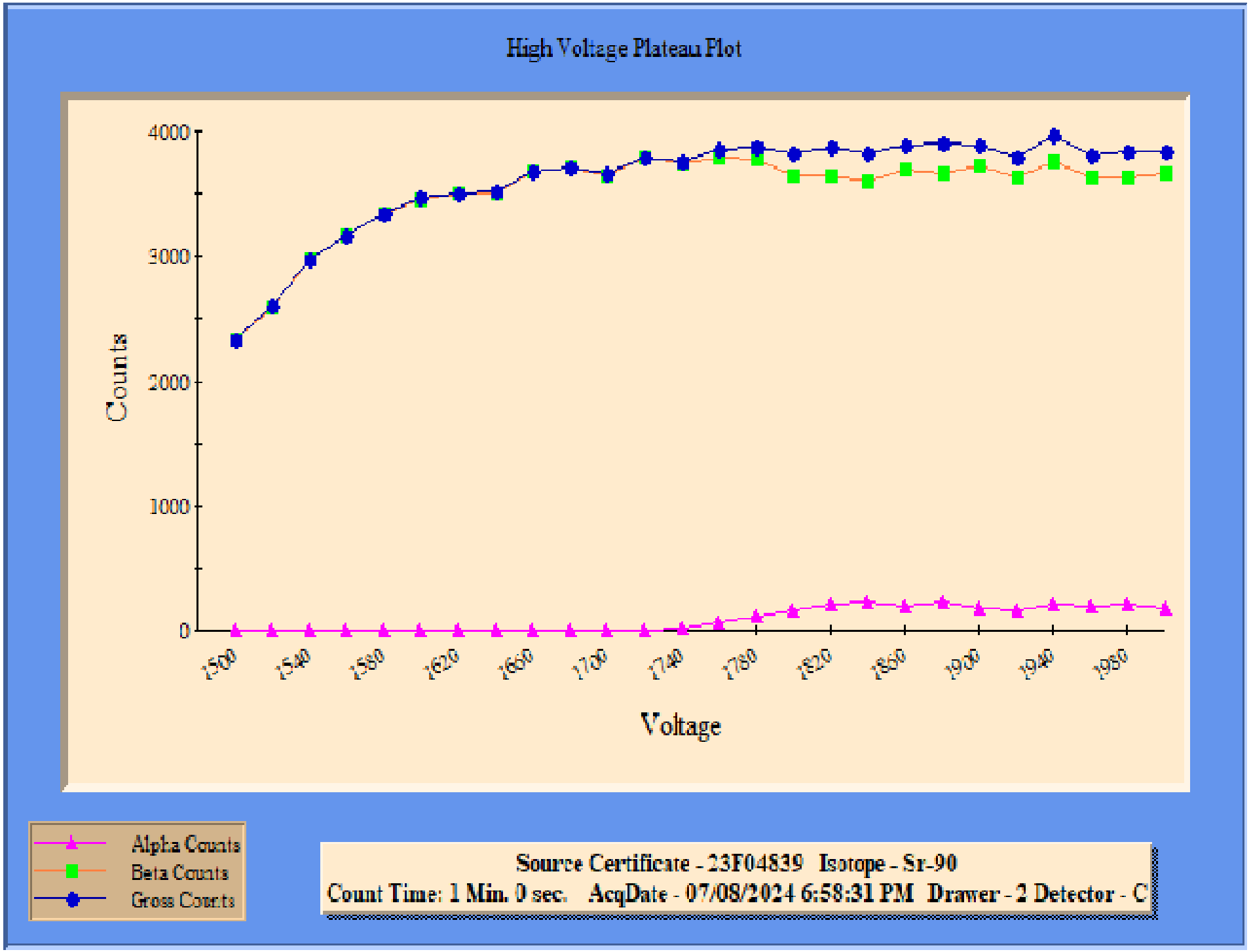
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 6:58:31 PM Drawer - 2 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 19:29
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000

Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1889	1889	0
1520	2196	2196	0
1540	2391	2390	1
1560	2690	2689	1
1580	2790	2789	1
1600	2991	2991	0
1620	3117	3114	3
1640	3140	3139	1
1660	3223	3221	2
1680	3376	3374	2
1700	3257	3255	2
1720	3346	3335	11
1740	3428	3410	18
1760	3405	3366	39
1780	3394	3301	93
1800	3539	3385	153
1820	3475	3296	179
1840	3395	3234	161
1860	3312	3133	178
1880	3457	3275	181
1900	3401	3236	165
1920	3484	3305	179
1940	3396	3202	193
1960	3585	3387	198
1980	3491	3319	172
2000	3391	3216	175

Special Notes:

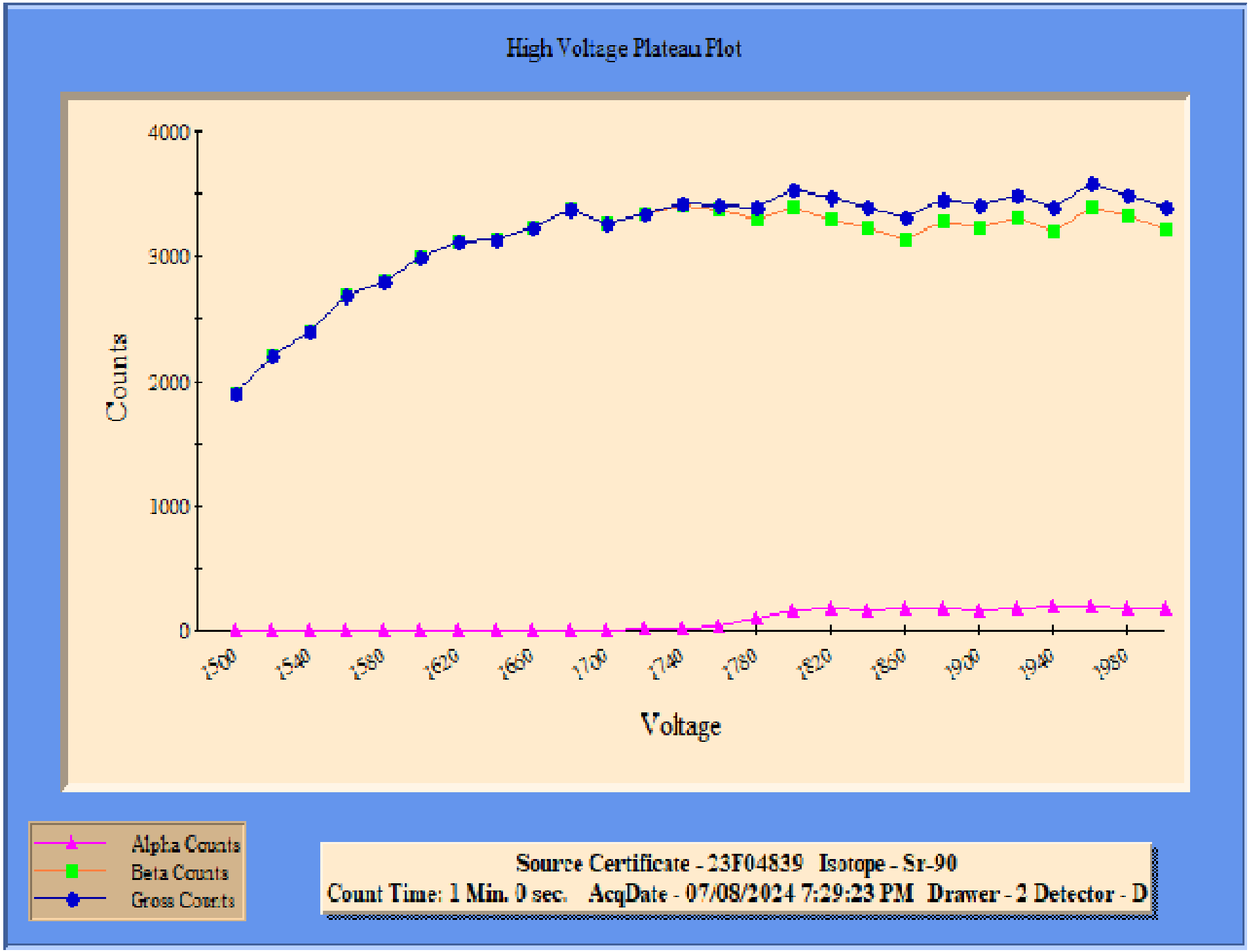
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 7:29:23 PM Drawer - 2 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 20:25
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	754	754	0
1520	952	952	0
1540	1206	1206	0
1560	1415	1414	1
1580	1643	1643	0
1600	1835	1835	0
1620	2197	2193	4
1640	2385	2385	0
1660	2566	2566	0
1680	2789	2787	2
1700	2837	2835	2
1720	2882	2881	1
1740	3144	3142	2
1760	3290	3286	4
1780	3183	3181	2
1800	3151	3146	5
1820	3295	3288	7
1840	3358	3344	14
1860	3185	3170	15
1880	3225	3214	11
1900	3241	3228	13
1920	3277	3266	11
1940	3384	3374	10
1960	3428	3419	9
1980	3319	3310	9
2000	3284	3276	8

Special Notes:

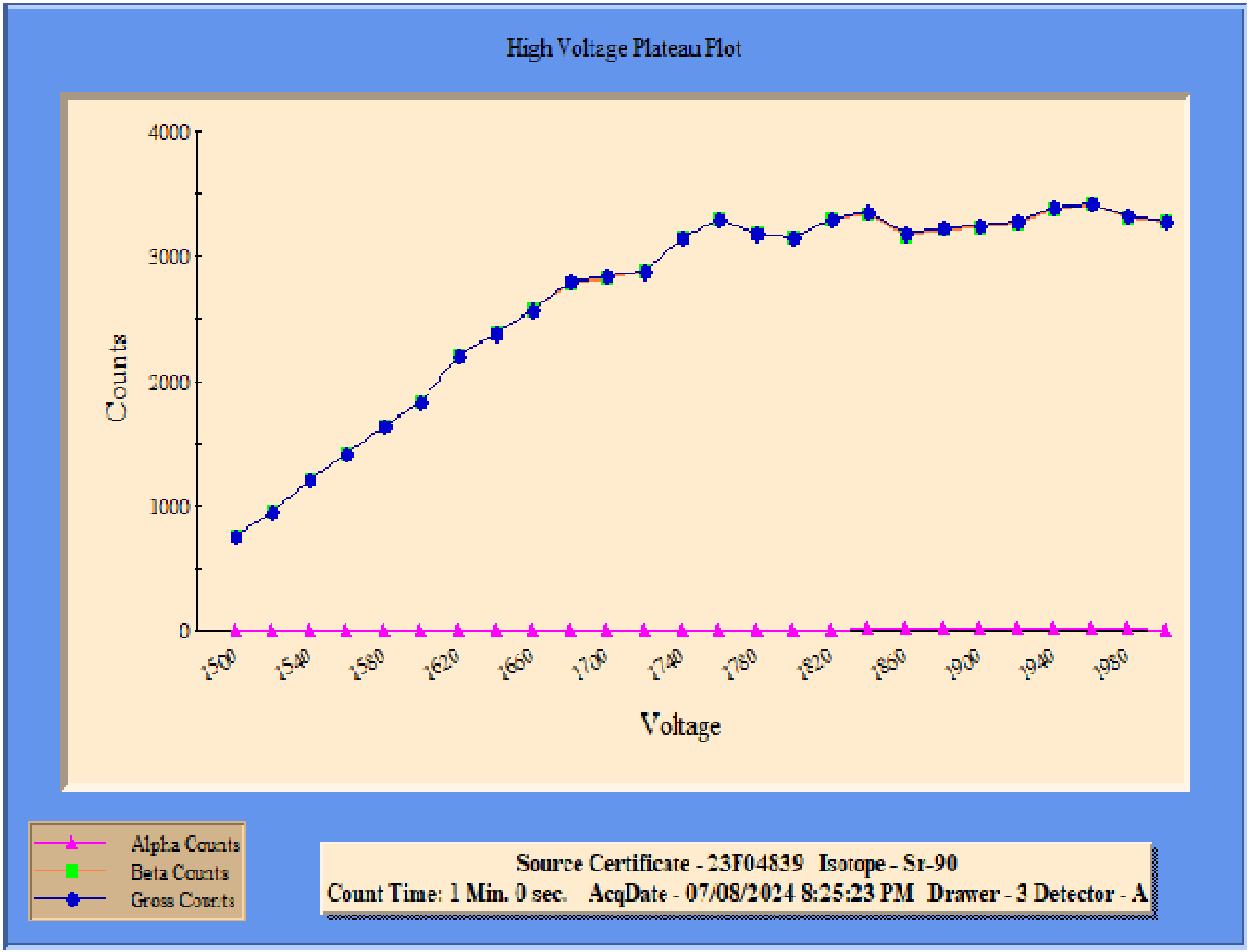
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 8:25:23 PM Drawer - 3 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 20:58
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1273	1273	0
1520	1519	1519	0
1540	1856	1856	0
1560	2167	2166	1
1580	2332	2330	2
1600	2527	2527	0
1620	2853	2852	1
1640	2981	2980	1
1660	3165	3162	3
1680	3302	3300	2
1700	3413	3411	2
1720	3431	3428	3
1740	3578	3573	5
1760	3579	3571	8
1780	3608	3579	29
1800	3679	3613	66
1820	3634	3563	71
1840	3677	3597	80
1860	3655	3581	74
1880	3551	3478	73
1900	3807	3728	79
1920	3630	3565	65
1940	3606	3549	57
1960	3631	3554	77
1980	3728	3664	64
2000	3811	3744	67

Special Notes:

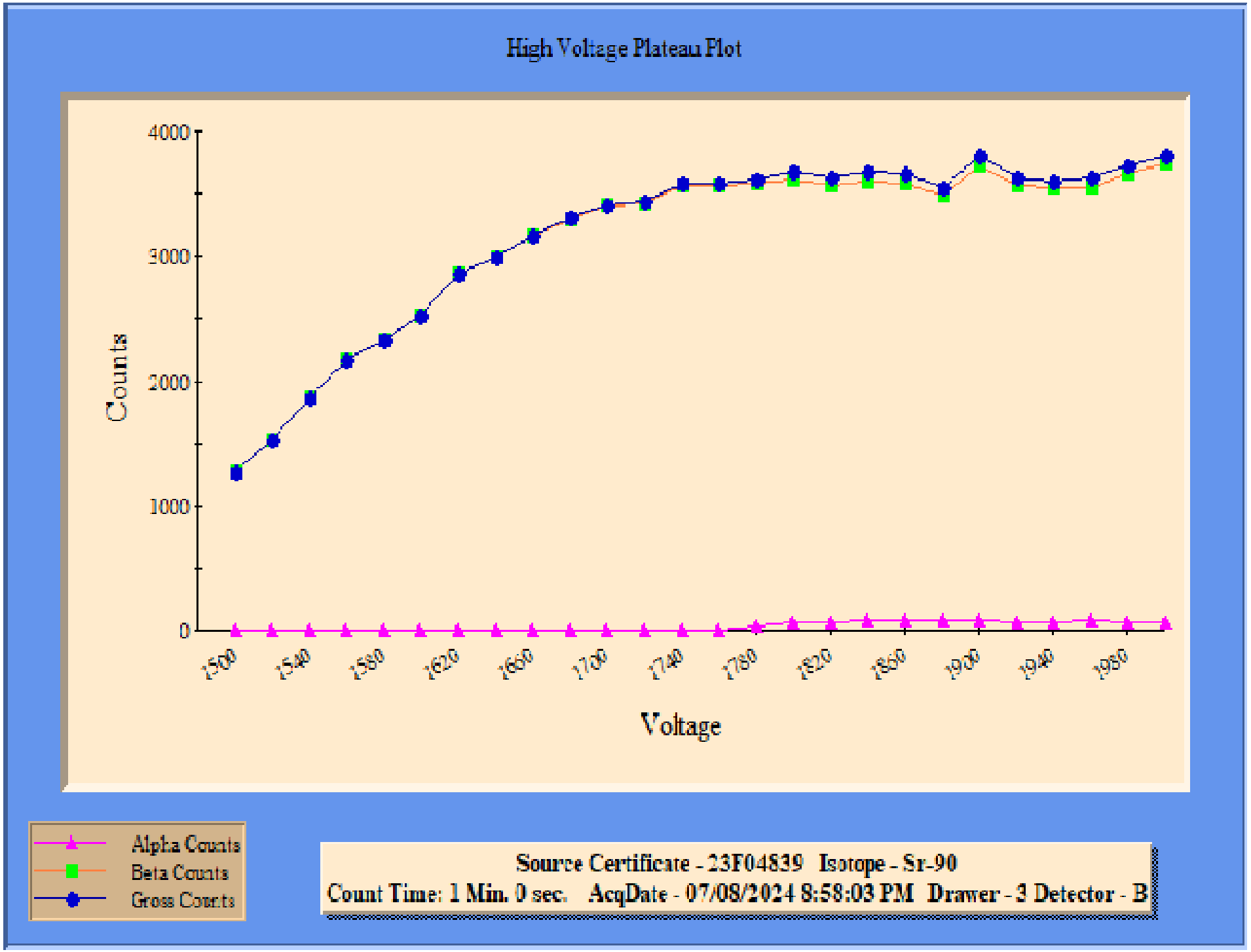
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 8:58:03 PM Drawer - 3 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 21:25
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1365	1363	2
1520	1608	1606	2
1540	1897	1896	1
1560	2182	2182	0
1580	2496	2495	1
1600	2604	2603	1
1620	2792	2789	3
1640	3135	3135	0
1660	3276	3274	2
1680	3434	3429	5
1700	3562	3559	3
1720	3460	3456	4
1740	3628	3620	8
1760	3625	3610	15
1780	3662	3635	27
1800	3680	3622	58
1820	3653	3563	90
1840	3607	3528	79
1860	3705	3611	94
1880	3646	3563	83
1900	3697	3626	71
1920	3713	3638	75
1940	3709	3620	89
1960	3681	3618	63
1980	3648	3569	79
2000	3649	3582	67

Special Notes:

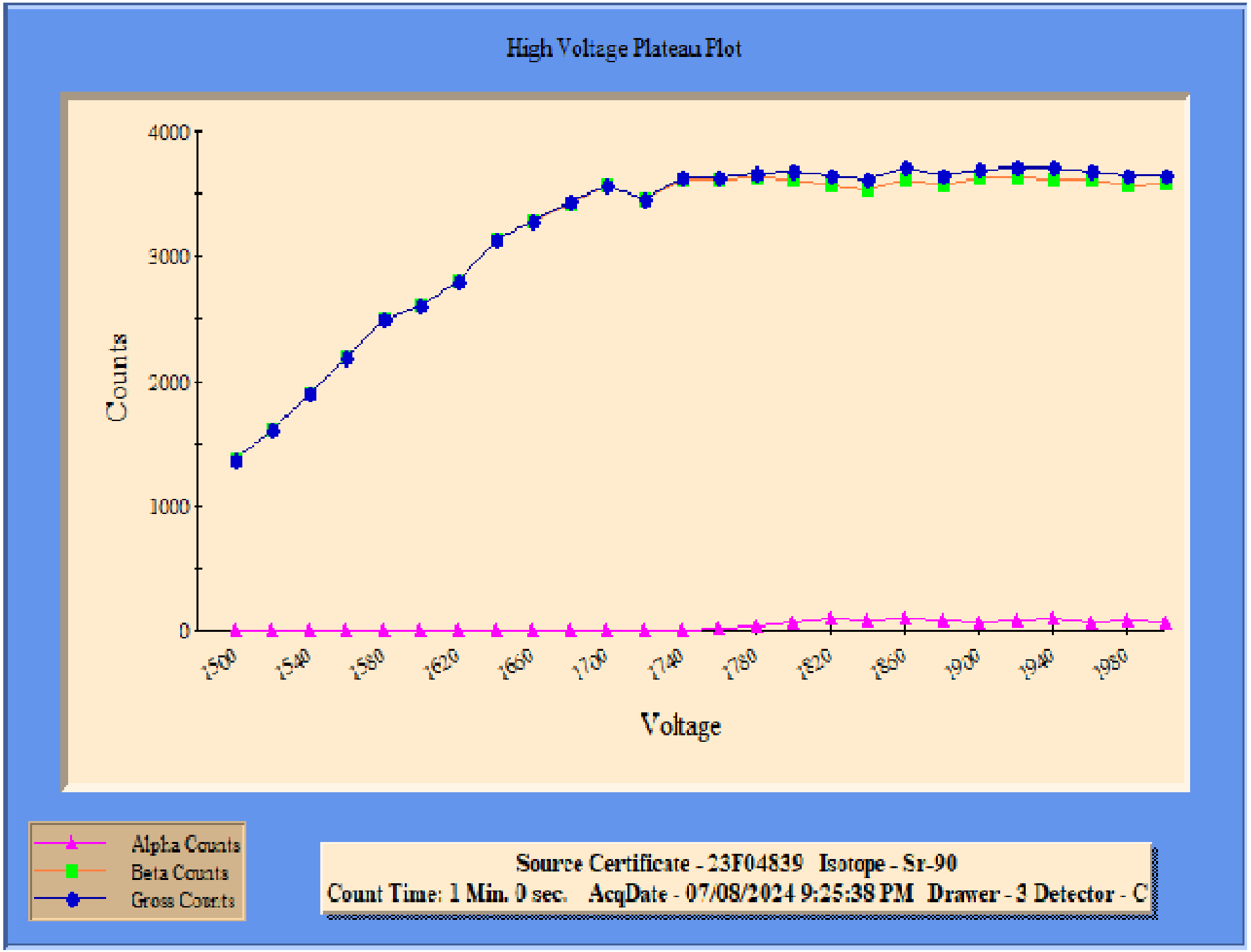
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 9:25:38 PM Drawer - 3 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 22:01
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1435	1435	0
1520	1685	1682	3
1540	1870	1870	0
1560	2204	2204	0
1580	2516	2515	1
1600	2767	2766	1
1620	2954	2953	1
1640	3097	3096	1
1660	3337	3334	3
1680	3411	3405	6
1700	3485	3483	2
1720	3548	3545	3
1740	3629	3625	4
1760	3562	3553	9
1780	3650	3607	43
1800	3660	3581	79
1820	3654	3541	113
1840	3673	3566	107
1860	3614	3507	107
1880	3810	3705	105
1900	3558	3473	85
1920	3709	3604	105
1940	3688	3584	104
1960	3693	3596	97
1980	3518	3425	93
2000	3671	3555	116

Special Notes:

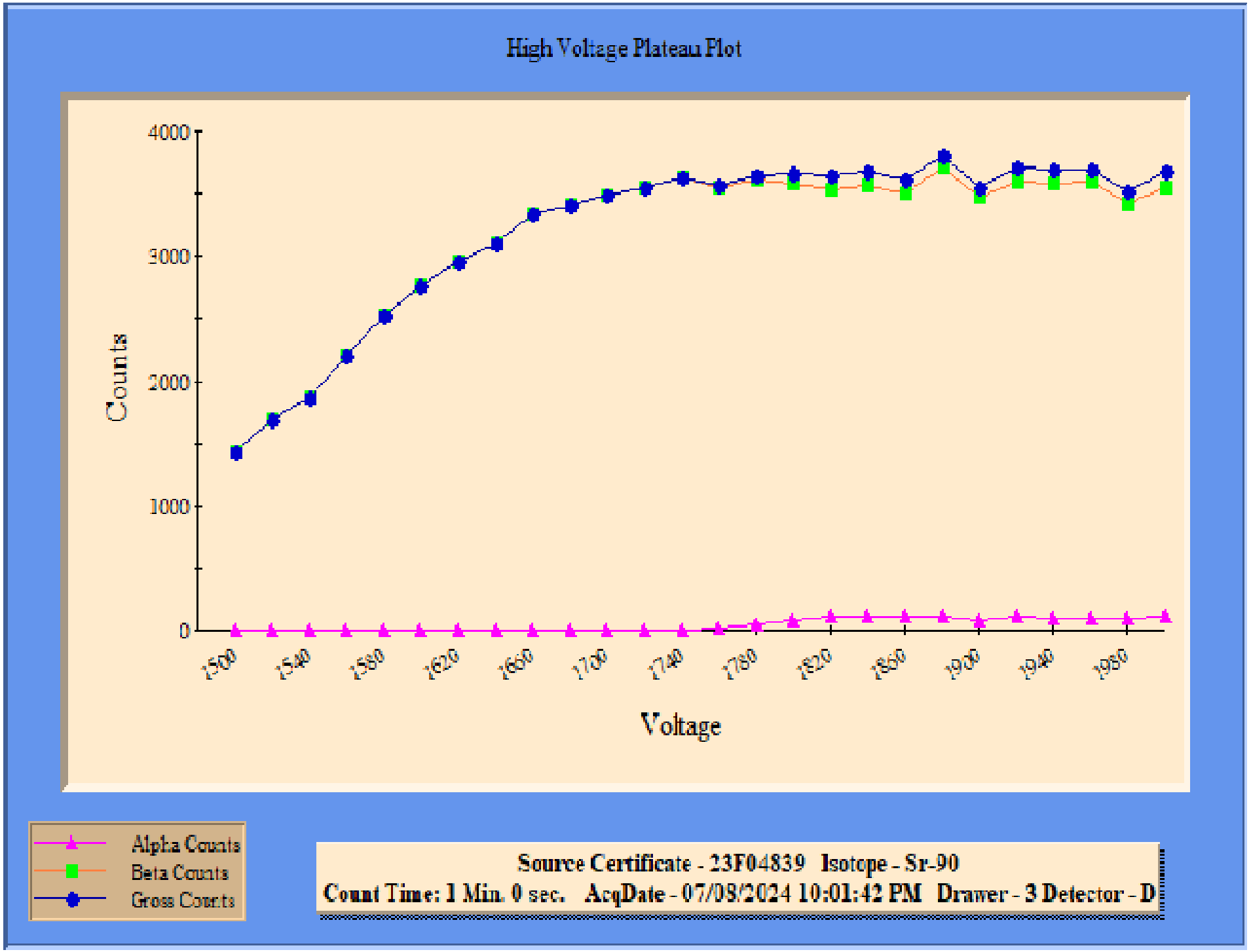
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 10:01:42 PM Drawer - 3 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 22:31
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1897	1896	1
1520	2136	2136	0
1540	2462	2460	2
1560	2698	2698	0
1580	2958	2958	0
1600	3107	3106	1
1620	3250	3247	3
1640	3353	3349	4
1660	3472	3471	1
1680	3517	3514	3
1700	3561	3559	2
1720	3496	3493	3
1740	3642	3629	13
1760	3789	3764	25
1780	3656	3578	78
1800	3735	3608	127
1820	3689	3529	160
1840	3656	3493	163
1860	3797	3623	174
1880	3792	3611	181
1900	3877	3715	162
1920	3765	3612	153
1940	3729	3556	173
1960	3800	3617	183
1980	3664	3489	175
2000	3808	3634	174

Special Notes:

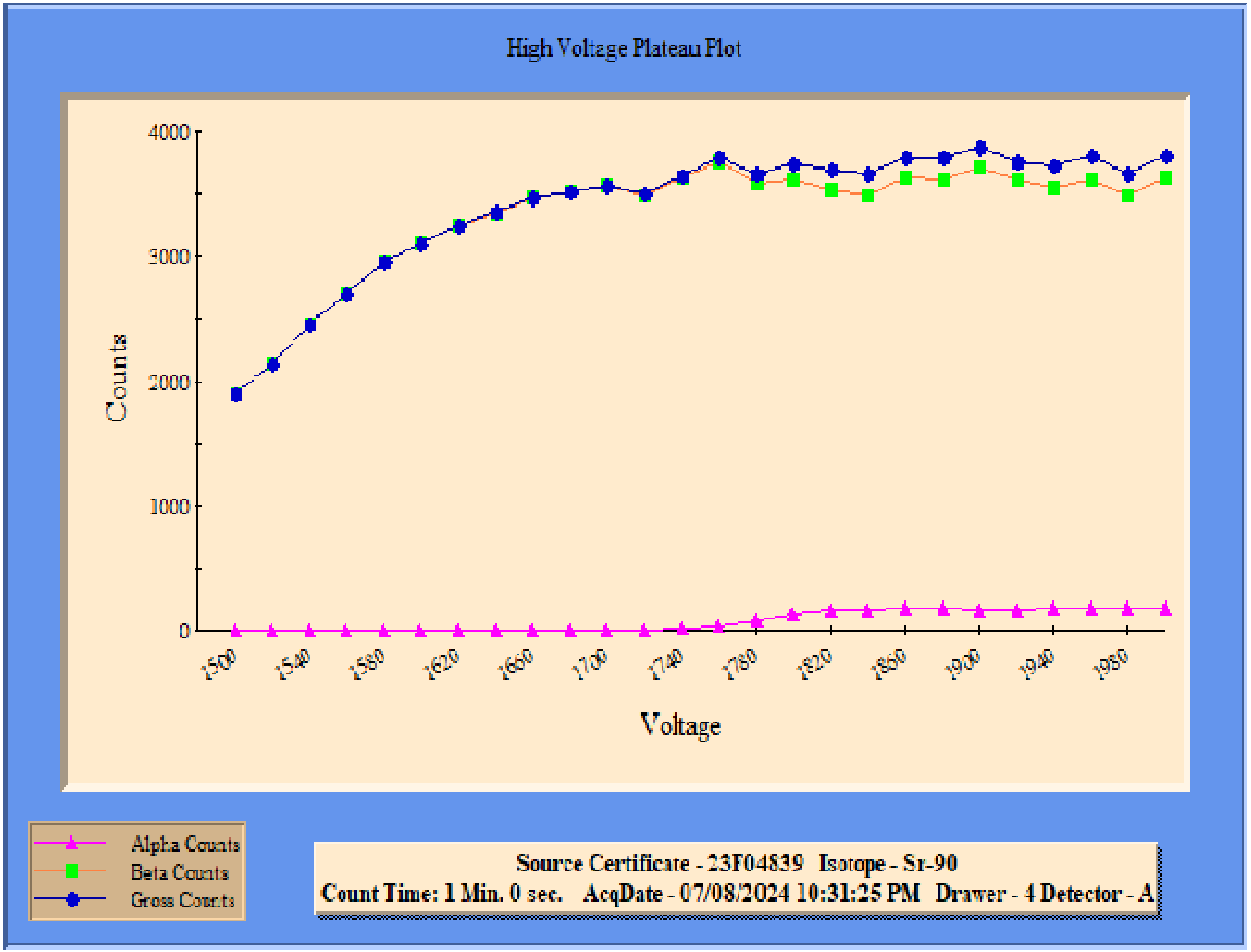
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 10:31:25 PM Drawer - 4 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 23:05
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2096	2095	1
1520	2391	2390	1
1540	2719	2717	2
1560	2989	2987	2
1580	3092	3090	2
1600	3234	3233	1
1620	3313	3312	1
1640	3557	3555	2
1660	3596	3595	1
1680	3634	3631	3
1700	3809	3806	3
1720	3630	3630	0
1740	3778	3772	6
1760	3724	3707	17
1780	3803	3770	33
1800	3818	3735	83
1820	3819	3733	86
1840	3696	3598	98
1860	3848	3776	72
1880	3788	3683	105
1900	3860	3780	80
1920	3799	3712	87
1940	3845	3770	75
1960	3773	3683	90
1980	3901	3812	89
2000	3842	3749	93

Special Notes:

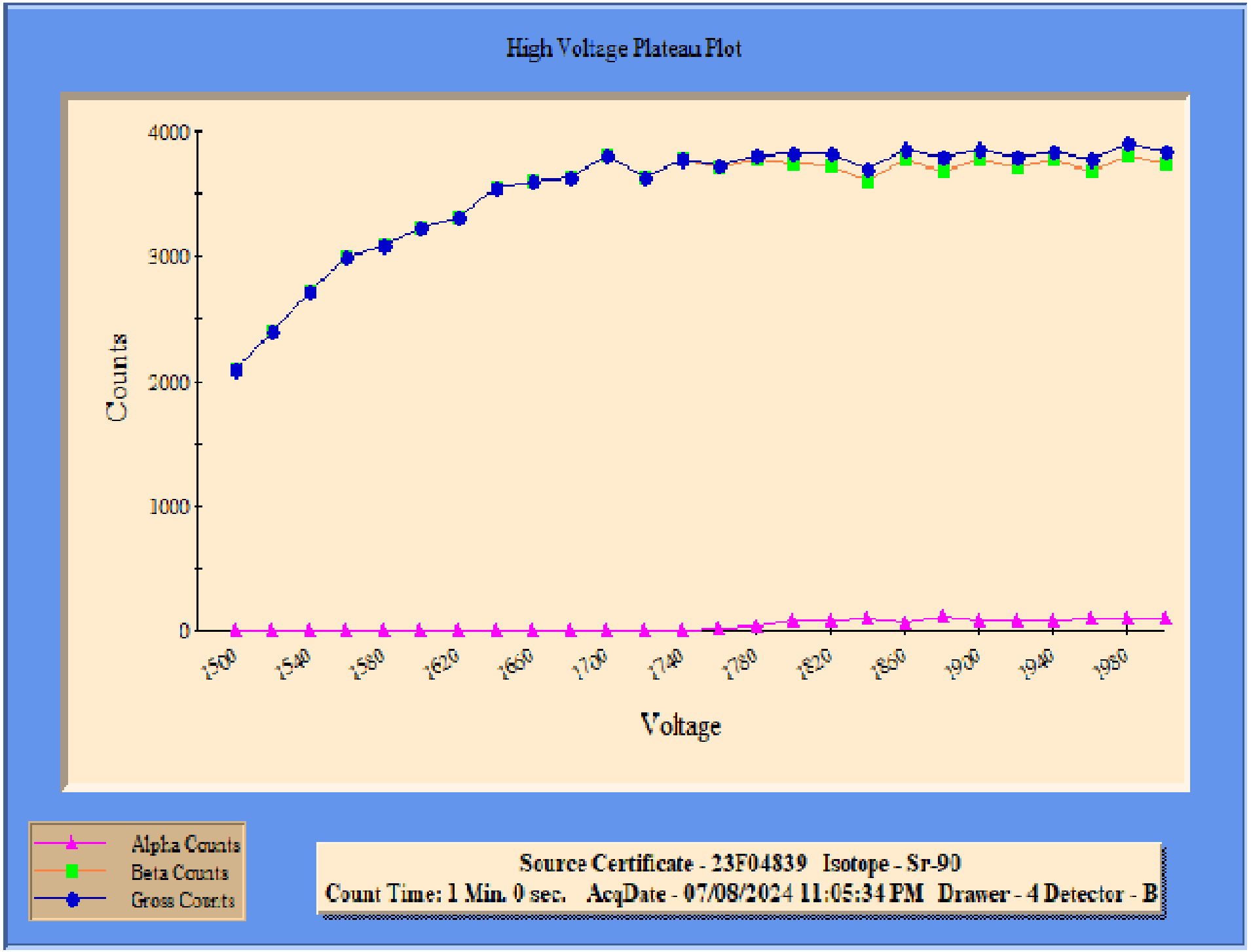
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 11:05:34 PM Drawer - 4 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 23:40
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000

Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1493	1492	1
1520	1702	1700	2
1540	1975	1975	0
1560	2257	2253	4
1580	2523	2523	0
1600	2755	2754	1
1620	3046	3044	2
1640	3158	3158	0
1660	3442	3441	1
1680	3476	3474	2
1700	3402	3401	1
1720	3574	3573	1
1740	3664	3663	1
1760	3563	3558	5
1780	3708	3706	2
1800	3735	3709	26
1820	3768	3726	42
1840	3818	3789	29
1860	3777	3746	31
1880	3822	3788	34
1900	3773	3749	24
1920	3713	3678	35
1940	3703	3672	31
1960	3722	3708	14
1980	3695	3664	31
2000	3706	3681	25

Special Notes:

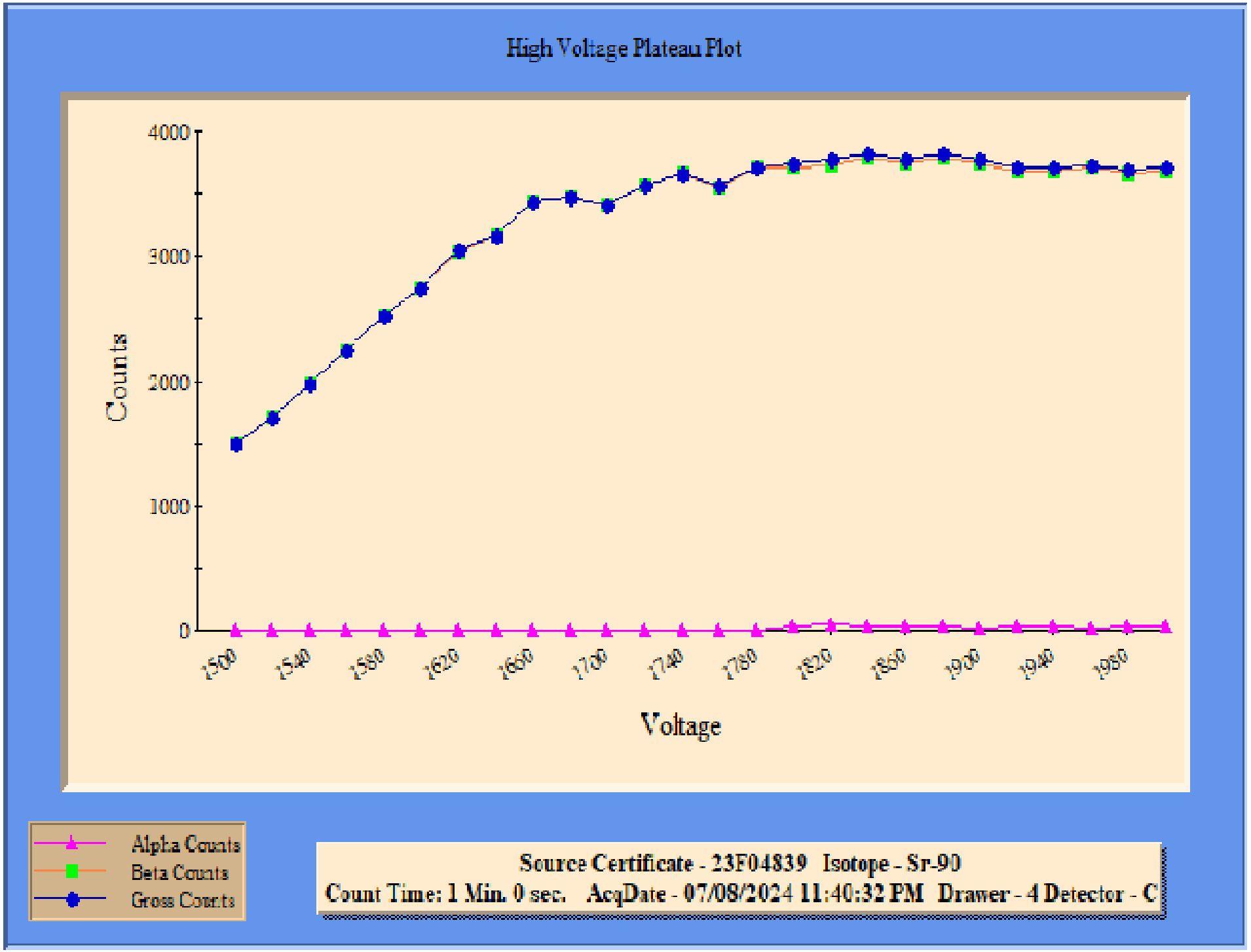
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 11:40:32 PM Drawer - 4 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/09/2024 00:10
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** D **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	582	582	0
1520	770	769	1
1540	936	935	1
1560	1205	1205	0
1580	1398	1396	2
1600	1576	1576	0
1620	1732	1732	0
1640	2073	2071	2
1660	2339	2338	1
1680	2576	2575	1
1700	2719	2718	1
1720	2868	2867	1
1740	3051	3048	3
1760	3223	3220	3
1780	3258	3253	5
1800	3307	3303	4
1820	3243	3240	3
1840	3348	3345	3
1860	3358	3355	3
1880	3310	3307	3
1900	3351	3346	5
1920	3311	3305	6
1940	3275	3268	7
1960	3268	3265	3
1980	3271	3269	2
2000	3396	3393	3

Special Notes:

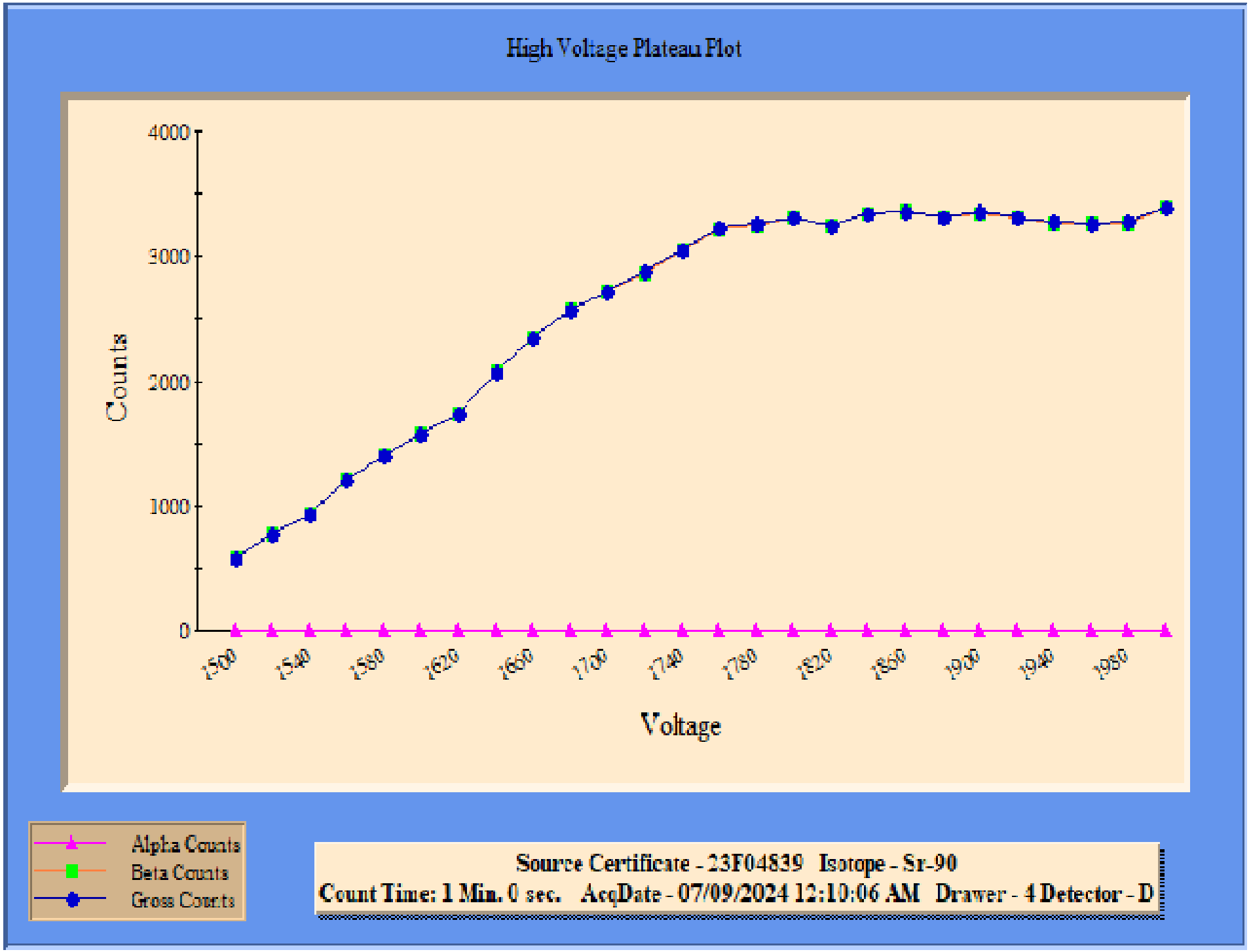
Report Generated: 07/09/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/09/2024 12:10:06 AM Drawer - 4 Detector - D

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: A
Voltage: 1760
Conf Level: 95.0 %

Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3671	10
2	3702	14
3	3738	20
4	3692	15
5	3776	19
6	3652	17
7	3653	12
8	3592	13
9	3685	19
10	3602	17
11	3750	17
12	3719	31
13	3680	23
14	3800	24
15	3683	20
16	3641	23
17	3757	21
18	3645	33
19	3611	25
20	3694	19

(Xbar) Mean:	3687.15	19.60
Calculated Chi-Sqr Value:	16.84	33.20

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: B
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3199	7
2	3296	10
3	3343	15
4	3428	15
5	3294	13
6	3306	12
7	3147	8
8	3260	17
9	3228	15
10	3348	22
11	3295	18
12	3337	21
13	3320	18
14	3269	15
15	3200	26
16	3195	10
17	3287	9
18	3232	11
19	3315	15
20	3190	15

(Xbar) Mean:	3274.45	14.60
Calculated Chi-Sqr Value:	27.14	31.01

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: C
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3462	1
2	3669	10
3	3607	18
4	3585	19
5	3647	22
6	3625	32
7	3623	25
8	3546	22
9	3528	22
10	3629	22
11	3499	17
12	3661	38
13	3652	21
14	3610	26
15	3616	34
16	3695	20
17	3730	26
18	3562	35
19	3540	34
20	3558	34

(Xbar) Mean:	3602.20	23.90
Calculated Chi-Sqr Value:	23.87	65.51

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3820	4
2	3737	7
3	3803	4
4	3756	5
5	3803	5
6	3812	5
7	3728	5
8	3730	4
9	3745	6
10	3692	6
11	3694	6
12	3787	4
13	3655	9
14	3764	4
15	3767	5
16	3644	6
17	3781	10
18	3700	8
19	3722	6
20	3668	5

(Xbar) Mean:	3740.40	5.70
Calculated Chi-Sqr Value:	14.23	9.51

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 16:53
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3537	1
2	3556	3
3	3589	6
4	3635	3
5	3698	1
6	3620	2
7	3628	5
8	3645	2
9	3581	0
10	3583	4
11	3588	2
12	3573	6
13	3693	1
14	3555	1
15	3626	4
16	3626	3
17	3600	4
18	3710	4
19	3568	3
20	3654	3

(Xbar) Mean:	3613.25	2.90
Calculated Chi-Sqr Value:	12.77	18.55

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: B
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:53
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3732	3
2	3605	3
3	3689	0
4	3735	6
5	3785	3
6	3692	4
7	3812	1
8	3741	4
9	3708	4
10	3727	2
11	3740	1
12	3653	8
13	3637	3
14	3664	2
15	3773	3
16	3656	2
17	3726	1
18	3653	5
19	3760	7
20	3573	4

(Xbar) Mean:	3703.05	3.30
Calculated Chi-Sqr Value:	19.57	24.30

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2 **Detector:** C
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 16:53
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3424	23
2	3463	50
3	3323	35
4	3400	36
5	3390	31
6	3385	26
7	3341	34
8	3403	44
9	3472	38
10	3487	27
11	3399	38
12	3343	38
13	3463	29
14	3404	29
15	3383	36
16	3423	31
17	3432	38
18	3338	34
19	3382	22
20	3373	32

(Xbar) Mean:	3401.40	33.55
Calculated Chi-Sqr Value:	12.05	26.08

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:53
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3780	24
2	3739	34
3	3646	31
4	3742	37
5	3598	32
6	3715	41
7	3594	43
8	3742	31
9	3759	34
10	3658	31
11	3767	40
12	3672	37
13	3662	29
14	3680	35
15	3782	27
16	3665	27
17	3616	39
18	3697	44
19	3693	30
20	3848	25

(Xbar) Mean:	3702.75	33.55
Calculated Chi-Sqr Value:	23.07	19.58

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1780
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3451	2
2	3421	3
3	3457	1
4	3528	1
5	3477	3
6	3495	3
7	3505	6
8	3453	3
9	3482	4
10	3511	6
11	3487	4
12	3462	2
13	3413	5
14	3458	5
15	3463	2
16	3501	3
17	3349	2
18	3423	5
19	3498	3
20	3464	3

(Xbar) Mean:	3464.90	3.30
Calculated Chi-Sqr Value:	9.30	12.79

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: B
Voltage: 1780
Conf Level: 95.0 %
Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3259	5
2	3286	7
3	3232	13
4	3270	12
5	3271	19
6	3277	22
7	3306	22
8	3287	12
9	3328	21
10	3313	13
11	3297	18
12	3263	14
13	3304	22
14	3279	16
15	3198	20
16	3273	28
17	3242	12
18	3219	28
19	3312	15
20	3245	24

(Xbar) Mean:	3273.05	17.15
Calculated Chi-Sqr Value:	6.56	44.35

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: C
Voltage: 1780
Conf Level: 95.0 %

Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3620	28
2	3580	22
3	3586	23
4	3676	31
5	3706	30
6	3670	34
7	3612	27
8	3563	13
9	3676	19
10	3619	21
11	3556	24
12	3581	23
13	3650	29
14	3788	25
15	3555	28
16	3598	36
17	3593	29
18	3539	24
19	3540	28
20	3563	21

(Xbar) Mean:	3613.55	25.75
Calculated Chi-Sqr Value:	21.53	21.19

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1780
Conf Level: 95.0 %
Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3698	24
2	3648	19
3	3639	31
4	3719	19
5	3587	25
6	3612	33
7	3667	44
8	3667	26
9	3663	32
10	3550	36
11	3594	27
12	3661	35
13	3655	35
14	3713	29
15	3595	24
16	3623	37
17	3559	32
18	3624	30
19	3588	32
20	3547	37

(Xbar) Mean:	3630.45	30.35
Calculated Chi-Sqr Value:	13.81	25.19

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: A
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 17:46
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 900	Alpha ROI Counts Chn 900 - 1023
1	3337	21
2	3333	29
3	3373	21
4	3377	25
5	3381	27
6	3353	29
7	3376	22
8	3284	27
9	3382	33
10	3263	29
11	3280	23
12	3273	25
13	3381	21
14	3309	34
15	3360	24
16	3342	25
17	3415	28
18	3338	29
19	3303	26
20	3255	32

(Xbar) Mean:	3335.75	26.50
Calculated Chi-Sqr Value:	12.44	11.06

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2 **Test Date:** 07/09/2024 17:46
USER ID: Meier **System Serial #:** 062201
Acq. Mode: Alpha/Beta **Number of Counts Performed:** 20
Drawer Number: 4 **Detector:** B **Source Certificate:** None
Counting Time: 1 min 0 sec **Voltage:** 1760 **Isotope:** Sr-90
Degrees of Freedom: N - 1 **Conf Level:** 95.0 % **Emission Type:** Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 1- 900	Chn 900 - 1023
1	3708	8
2	3751	7
3	3731	15
4	3620	8
5	3681	6
6	3781	6
7	3685	5
8	3638	4
9	3648	7
10	3604	14
11	3650	8
12	3691	8
13	3609	11
14	3796	5
15	3767	6
16	3623	7
17	3702	7
18	3564	8
19	3716	9
20	3524	11

(Xbar) Mean:	3674.45	8.00
Calculated Chi-Sqr Value:	27.24	19.25

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** C
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 17:46
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 1- 900	Chn 900 - 1023
1	3637	2
2	3637	1
3	3609	2
4	3697	1
5	3731	2
6	3687	5
7	3626	7
8	3659	2
9	3693	3
10	3610	3
11	3716	2
12	3691	2
13	3720	3
14	3647	3
15	3665	7
16	3677	1
17	3726	5
18	3844	3
19	3679	3
20	3678	9

(Xbar) Mean:	3681.45	3.30
Calculated Chi-Sqr Value:	14.51	27.94

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** D
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 17:46
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 1- 900	Chn 900 - 1023
1	3438	3
2	3330	3
3	3504	0
4	3600	1
5	3557	2
6	3494	2
7	3499	1
8	3508	1
9	3579	3
10	3596	3
11	3545	3
12	3516	3
13	3453	0
14	3456	3
15	3581	2
16	3532	0
17	3612	2
18	3556	4
19	3597	1
20	3566	1

(Xbar) Mean:	3525.95	1.90
Calculated Chi-Sqr Value:	25.97	14.63

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

RADIUM-228
METHOD: **EPA 904/9320**
SDG# WG2470402

Lab ID	Result	2σ CE	2σTPU	SDWA DL	Lc	MDA	UNITS	PREP DATE	ANALYSIS DATE	ANALYST
BLANK WG2470402	-0.375	0.184	0.331	0.346	0.189	0.362	pCi/l	3/17/2025	3/25/2025	DDD3903
LCS WG2470402	4.523	0.230	0.368	0.301	0.164	0.314	pCi/l	3/17/2025	3/25/2025	DDD3903
MS L1834569-04 WG2470402	15.788	0.809	1.310	1.011	0.557	1.058	pCi/l	3/17/2025	3/25/2025	DDD3903
MSD L1834569-04 WG2470402	15.626	0.814	1.288	1.072	0.587	1.123	pCi/l	3/17/2025	3/25/2025	DDD3903
DUP L1835703-03 WG2470402	0.932	0.554	1.065	0.979	0.541	1.024	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-01 WG2470402	0.099	0.251	0.532	0.456	0.252	0.477	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-02 WG2470402	0.512	0.291	0.587	0.515	0.285	0.538	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-03 WG2470402	-0.216	0.370	0.648	0.672	0.368	0.705	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-04 WG2470402	-0.545	0.476	0.946	0.889	0.490	0.930	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-09 WG2470402	0.036	0.325	0.602	0.588	0.323	0.616	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-11 WG2470402	0.556	0.327	0.611	0.576	0.316	0.603	pCi/l	3/17/2025	3/25/2025	DDD3903
L1834569-13 WG2470402	2.126	0.359	0.660	0.580	0.320	0.607	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835110-01 WG2470402	1.900	0.348	0.642	0.569	0.310	0.588	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835110-05 WG2470402	1.939	0.313	0.598	0.501	0.274	0.518	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835110-07 WG2470402	1.495	0.230	0.431	0.368	0.200	0.380	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835110-09 WG2470402	1.953	0.415	0.724	0.694	0.381	0.727	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835187-02 WG2470402	0.675	0.327	0.630	0.574	0.317	0.600	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835187-04 WG2470402	0.472	0.451	0.769	0.800	0.438	0.839	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835187-07 WG2470402	-0.100	0.302	0.580	0.553	0.304	0.579	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835200-01 WG2470402	0.362	0.290	0.512	0.514	0.282	0.539	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835200-02 WG2470402	0.234	0.335	0.567	0.597	0.326	0.626	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835703-01 WG2470402	0.000	0.351	0.641	0.635	0.348	0.665	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835703-02 WG2470402	1.379	0.456	0.780	0.785	0.430	0.823	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835703-03 WG2470402	0.629	0.399	0.688	0.702	0.383	0.736	pCi/l	3/17/2025	3/25/2025	DDD3903
L1835703-04 WG2470402	2.321	0.459	0.761	0.764	0.418	0.801	pCi/l	3/17/2025	3/25/2025	DDD3903
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/l	3/17/2025	1/0/1900	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/l	3/17/2025	1/0/1900	
0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	pCi/l	3/17/2025	1/0/1900	

RADIUM-228
METHOD: EPA 904/9320
SDG# WG2470402
ANALYST: DDD3903
PREP DATE: 3/17/25 14:44

Matrix: NPW/DW

LAB ID	sample date	sample size (L)	ingrowth start	decay start	t3 min	count date/end time	counts	UNIT/DET no.	UNIT	DET no.	back CPM	COUNTER EFF	SAMPLE DECAY DAYS	SAMPLE DECAY FACTOR	t1 min	Count Time t2 min	λt_2 $(1-e^{-\lambda t}2)$	1 $(1-e^{-\lambda t}3)$	1 $e^{-\lambda t}1$	Ba % rec	Y %rec	Ra228 pCi/l
BLANK WG2470402	**3/17/25 14:44**	1.000	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	287	3A-1	3	1	1.66	43.68	0.02	1.00	105	200	1.200	1.000	1.219	92.0%	97.3%	-0.375
LCS WG2470402	**3/17/25 14:44**	1.000	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	960	3A-2	3	2	1.69	45.45	0.02	1.00	105	200	1.200	1.000	1.219	100.0%	100.0%	4.523
MS L1834569-04 WG2470402	3/10/2025 11:55	0.300	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	794	3A-3	3	3	1.22	44.61	0.04	1.01	105	200	1.200	1.000	1.219	100.0%	86.3%	15.788
MSD L1834569-04 WG2470402	3/10/2025 11:55	0.300	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	943	3A-4	3	4	1.70	44.75	0.04	1.01	105	200	1.200	1.000	1.219	99.1%	96.0%	15.626
DUP L1835703-03 WG2470402	3/12/2025 8:20	0.300	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	242	3B-1	3	5	1.05	44.67	0.04	1.00	105	200	1.200	1.000	1.219	83.2%	100.0%	0.932
L1834569-01 WG2470402	3/10/2025 13:20	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	206	3B-2	3	6	1.00	48.11	0.04	1.01	105	200	1.200	1.000	1.219	100.0%	96.9%	0.099
L1834569-02 WG2470402	3/10/2025 9:45	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	215	3B-3	3	7	0.92	45.37	0.04	1.01	105	200	1.200	1.000	1.219	95.7%	91.9%	0.512
L1834569-03 WG2470402	3/10/2025 10:35	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	377	3B-4	3	8	1.96	44.01	0.04	1.01	105	200	1.200	1.000	1.219	100.0%	98.9%	-0.216
L1834569-04 WG2470402	3/10/2025 11:55	0.300	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	221	3C-1	3	9	1.21	45.07	0.04	1.01	105	200	1.200	1.000	1.219	100.0%	97.1%	-0.545
L1834569-09 WG2470402	3/10/2025 13:40	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	314	3C-2	3	10	1.56	44.67	0.04	1.01	105	200	1.200	1.000	1.219	100.0%	100.0%	0.036
L1834569-11 WG2470402	3/10/2025 10:45	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	316	3C-3	3	11	1.40	45.48	0.04	1.01	105	200	1.200	1.000	1.219	100.0%	95.3%	0.556
L1834569-13 WG2470402	3/10/2025 8:25	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:15	337	3C-4	3	12	1.08	44.90	0.04	1.01	105	200	1.200	1.000	1.219	94.6%	89.6%	2.126
L1835110-01 WG2470402	3/11/2025 11:15	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:21	339	3D-1	3	13	1.13	44.96	0.04	1.00	112	200	1.200	1.000	1.235	92.9%	96.0%	1.900
L1835110-05 WG2470402	3/11/2025 11:00	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:21	317	3D-2	3	14	0.97	44.83	0.04	1.00	112	200	1.200	1.000	1.235	100.0%	94.7%	1.939
L1835110-07 WG2470402	3/11/2025 12:25	0.700	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:21	345	3D-3	3	15	1.05	44.28	0.04	1.00	112	200	1.200	1.000	1.235	99.5%	97.6%	1.495
L1835110-09 WG2470402	3/11/2025 11:15	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	428	4C-2	4	10	1.58	46.37	0.04	1.00	105	200	1.200	1.000	1.218	100.0%	82.1%	1.953
L1835187-02 WG2470402	3/11/2025 12:40	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	270	4A-1	4	1	1.15	47.14	0.04	1.00	105	200	1.200	1.000	1.218	89.2%	94.3%	0.675
L1835187-04 WG2470402	3/11/2025 16:10	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	401	4A-2	4	2	1.88	46.61	0.04	1.00	105	200	1.200	1.000	1.218	80.3%	95.7%	0.472
L1835187-07 WG2470402	3/11/2025 17:34	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	287	4A-3	4	3	1.47	46.23	0.04	1.00	105	200	1.200	1.000	1.218	100.0%	100.0%	-0.100
L1835200-01 WG2470402	3/11/2025 12:40	0.700	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	381	4A-4	4	4	1.76	47.85	0.04	1.00	105	200	1.200	1.000	1.218	85.0%	94.9%	0.362
L1835200-02 WG2470402	3/11/2025 15:45	0.700	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	412	4B-1	4	5	1.97	48.15	0.04	1.00	105	200	1.200	1.000	1.218	80.3%	90.9%	0.234
L1835703-01 WG2470402	3/12/2025 8:20	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	359	4B-2	4	6	1.80	47.95	0.04	1.00	105	200	1.200	1.000	1.218	100.0%	92.2%	0.000
L1835703-02 WG2470402	3/12/2025 9:35	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	423	4B-3	4	7	1.75	48.08	0.04	1.00	105	200	1.200	1.000	1.218	86.8%	84.6%	1.379
L1835703-03 WG2470402	3/12/2025 8:20	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	469	4B-4	4	8	2.14	47.25	0.04	1.00	105	200	1.200	1.000	1.218	100.0%	92.1%	0.629
L1835703-04 WG2470402	3/12/2025 9:30	0.500	3/19/2025 13:28	3/25/2025 22:10	9162	3/26/25 3:14	516	4C-1	4	9	1.92	45.24	0.04	1.00	105	200	1.200	1.000	1.218	90.3%	92.9%	2.321
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!
					0							FALSE	0.00	1.00	-200	200	1.200	#DIV/0!	0.686	0.0%	0.0%	#DIV/0!

=Daily backgrounds used

RADIUM 228 QC REPORT

METHOD: EPA 904/9320
SDG# WG2470402
ANALYST: DDD3903

QC SPIKE INFORMATION
VOLUME USED: **0.5**
QC ID: 24H07307
ACTIVITY: 10.0 pCi/ml

Analyte **Ra228** units pCi/L
Matrix
Sample 335703-03 WG2470402

	RESULT	ERROR	2σTPU	SDWA DL	Lc	MDA	known	%REC	LIMITS LOW	LIMITS HIGH	RPD	LIMITS	RER	LIMITS
BLANK WG2470402	-0.375	0.184	0.331	0.346	0.189	0.362								
LCS WG2470402	4.523	0.230	0.368	0.301	0.164	0.314	5.0	**90.5%**	80%	120%				
L1835703-03 WG2470402	0.629	0.399	0.688	0.702	0.383	0.736								
DUP L1835703-03 WG2470402	0.932	0.554	1.065	0.979	0.541	1.024					**NC**	20%	**0.444**	3
L1834569-04 WG2470402	-0.545	0.476	0.946	0.889	0.490	0.930								
MS L1834569-04 WG2470402	15.79	0.81	1.31	1.01	0.56	1.06	16.7	**98.0%**	70%	130%				
MSD L1834569-04 WG2470402	15.63	0.81	1.29	1.07	0.59	1.12	16.7	**97.0%**	70%	130%	**1.0%**	20%	**0.14**	3

*** - Outside Control Limits**

SAMPLES:

BLANK WG2470402	L1834569-13 WG24	L1835703-02 WG2470402
LCS WG2470402	L1835110-01 WG24	L1835703-03 WG2470402
MS L1834569-04 WG2470402	L1835110-05 WG24	L1835703-04 WG2470402
MSD L1834569-04 WG2470402	L1835110-07 WG2470402	
DUP L1835703-03 WG2470402	L1835110-09 WG2470402	
L1834569-01 WG2470402	L1835187-02 WG2470402	
L1834569-02 WG2470402	L1835187-04 WG2470402	
L1834569-03 WG2470402	L1835187-07 WG2470402	
L1834569-04 WG2470402	L1835200-01 WG2470402	
L1834569-09 WG2470402	L1835200-02 WG2470402	
L1834569-11 WG2470402	L1835703-01 WG2470402	

3/28/2025

DECAY CALCUALTION

Th-232 Source
Source No. 2471-55
ESC58532
Pace No. 24H07307

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 07-Aug-24
DATE OF CALIBRATION 17-Mar-25

Ao =	1.03	nCi
N =	0.00	
T(1/2) =	1.41E+10	years
T =	0.00	years
dilution =	1.00	
A =	1.03	nCi
A =	2288.82	dpm/ml
A =	1031.00	pCi/ml
Stock =	1031	pCi/ml
Stock	9.7	ml
DI	1000	pCi/ml
A =	10.0 +/-	0.30013432 pCi/ml

Pace Analytical

View as PDF (CreatePDF?batchnum=WG2470402)

RA-228 Aqueous Radiochemistry Prep Benchsheet

Batch: WG2470402

Analyst: TBP4289 Prep Start Date/Time: 03/17/25 14:44-16:57 Prep End Date/Time: 03/28/25 22:49-22:52 Method: 904 SOP: ENV-SOP-MTJL-0300/0322 Pipet ID: E-21, E-24, E-12 Balance ID: RADBAL3
Stirrer ID: ST 15, 34, 43, 44 Hotplate ID: HP 20, 21 Centrifuge ID: C5, C6 Centrifuge Tube Lot: 920138 Transfer Pipet Lot: 24450561 1mL e-Pipet Tip Lot: 2243 2mL e-Pipet Tip Lot: 2418
10mL e-Pipet Tip Lot: 2332 10mL Manual Pipet Tip Lot: p7601073 pH Lot: 10BDH3921 Filter Lot#: N/A Filter Lot#: N/A

LCS/MS Spike: 24H07307 Amt. Used: 0.50 mL Exp. Date:08/07/25 16 mg/mL Barium Carrier: 25A31529 Amt. Used: 2 mL Exp. Date:05/31/25 1M Citric Acid: 25A24419 Amt. Used: 5 mL Exp. Date:09/30/25
Methyl Orange: 25A24421 Amt. Used: 0.20 mL Exp. Date:01/24/26 15 mg/mL Lead Carrier: 25C12783 Amt. Used: 10 mL Exp. Date:03/12/26 10 mg/mL Strontium Carrier: 25C04631 Amt. Used: 2 mL Exp. Date:03/31/26
18 mg/mL Yttrium Carrier: 25A09528 Amt. Used: 1 mL Exp. Date:01/09/26 Ammonium Hydroxide: 25B25401 Amt. Used: 10 mL Exp. Date:08/06/26 1:1 H2SO4: 25C13088 Amt. Used: 10 mL Exp. Date:03/13/26
200 mg/mL Ammonium Sulfate: 25C03355 Amt. Used: 16 mL Exp. Date:03/03/26 Nitric Acid: 25C19808 Amt. Used: 34 mL Exp. Date:09/19/29 0.25N Basic EDTA: 24K23552 Amt. Used: 85 mL Exp. Date:11/23/25
0.9mg/mL each Sr/Y Carrier: 25A20695 Amt. Used: 2 mL Exp. Date:03/31/25 Acetic Acid: 24H09546 Amt. Used: 20 mL Exp. Date:02/28/26 1.5mg/mL Lead Carrier: 25B27873 Amt. Used: 2 mL Exp. Date:02/21/26
2% NH4 Sulfide: 25C13070 Amt. Used: 0.50 mL Exp. Date:03/13/26 9 mg/mL Yttrium Carrier: 25A21880 Amt. Used: 1 mL Exp. Date:01/21/26 18N NaOH: 25B27930 Amt. Used: 5 mL Exp. Date:02/27/26
6N Nitric Acid: 25C14182 Amt. Used: 2 mL Exp. Date:03/14/26 10N NaOH: 25C18779 Amt. Used: 4 mL Exp. Date:03/18/26 1N Nitric Acid: 25C18776 Amt. Used: 3.50 mL Exp. Date:03/18/26
5% Ammonium Oxalate: 25C07143 Amt. Used: 3.50 mL Exp. Date:03/07/28

Sample Number	Collect Date	Sample Vol. (L or filt)	Ac-228 Ingrowth Time	Ac-228 Decay Time	Y Planchet Tare (g)	Y Planchet Gross (g)	Y Planchet Net (g)	Ba Planchet Tare (g)	Ba Planchet Gross (g)	Ba Planchet Net (g)	Review Analyst	Review Date
BLANK		1.00	03/19/25 13:28:00	03/25/25 22:10:00	7.46157	7.49409	0.03252	7.50816	7.55996	0.0518	DDD3903	03/28/25 22:52:47
LCS		1.00	03/19/25 13:28:00	03/25/25 22:10:00	7.61772	7.65114	0.03342	7.50296	7.56073	0.05777	DDD3903	03/28/25 22:52:47
MS(L1834569-04)		0.300	03/19/25 13:28:00	03/25/25 22:10:00	7.64650	7.67536	0.02886	7.48809	7.54444	0.05635	DDD3903	03/28/25 22:52:47
MSD(L1834569-04)		0.300	03/19/25 13:28:00	03/25/25 22:10:00	7.60340	7.63551	0.03211	7.50819	7.56396	0.05577	DDD3903	03/28/25 22:52:47
DUP(L1835703-03)		0.300	03/19/25 13:28:00	03/25/25 22:10:00	7.66963	7.70347	0.03384	7.49662	7.54346	0.04684	DDD3903	03/28/25 22:52:47
1. L1834569-01	03/10/25 13:20	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.53891	7.57130	0.03239	7.49502	7.55524	0.06022	DDD3903	03/28/25 22:52:47
2. L1834569-02	03/10/25 09:45	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.61615	7.64686	0.03071	7.47716	7.53100	0.05384	DDD3903	03/28/25 22:52:47
3. L1834569-03	03/10/25 10:35	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.66307	7.69615	0.03308	7.48244	7.54123	0.05879	DDD3903	03/28/25 22:52:47
4. L1834569-04	03/10/25 11:55	0.300	03/19/25 13:28:00	03/25/25 22:10:00	7.56887	7.60133	0.03246	7.51698	7.57414	0.05716	DDD3903	03/28/25 22:52:47
5. L1834569-09	03/10/25 13:40	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.56301	7.59691	0.0339	7.50459	7.56407	0.05948	DDD3903	03/28/25 22:52:47
6. L1834569-11	03/10/25 10:45	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.58570	7.61757	0.03187	7.52698	7.58473	0.05775	DDD3903	03/28/25 22:52:47
7. L1834569-13	03/10/25 08:25	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.59412	7.62406	0.02994	7.52502	7.57825	0.05323	DDD3903	03/28/25 22:52:47
8. L1835110-01	03/11/25 11:15	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.48618	7.51829	0.03211	7.50171	7.55398	0.05227	DDD3903	03/28/25 22:52:47
9. L1835110-05	03/11/25 11:00	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.65322	7.68489	0.03167	7.50217	7.56032	0.05815	DDD3903	03/28/25 22:52:47
10. L1835110-07	03/11/25 12:25	0.700	03/19/25 13:28:00	03/25/25 22:10:00	7.68997	7.72261	0.03264	7.49951	7.55549	0.05598	DDD3903	03/28/25 22:52:47
11. L1835110-09	03/11/25 11:15	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.59091	7.61837	0.02746	7.49267	7.55256	0.05989	DDD3903	03/28/25 22:52:47
12. L1835187-02	03/11/25 12:40	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.66255	7.69407	0.03152	7.51822	7.56840	0.05018	DDD3903	03/28/25 22:52:47
13. L1835187-04	03/11/25 16:10	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.58792	7.61993	0.03201	7.47785	7.52306	0.04521	DDD3903	03/28/25 22:52:47
14. L1835187-07	03/11/25 17:34	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.60351	7.63850	0.03499	7.52058	7.57739	0.05681	DDD3903	03/28/25 22:52:47
15. L1835200-01	03/11/25 12:40	0.700	03/19/25 13:28:00	03/25/25 22:10:00	7.56205	7.59376	0.03171	7.49654	7.54441	0.04787	DDD3903	03/28/25 22:52:47
16. L1835200-02	03/11/25 15:45	0.700	03/19/25 13:28:00	03/25/25 22:10:00	7.65028	7.68067	0.03039	7.47979	7.52501	0.04522	DDD3903	03/28/25 22:52:47
17. L1835703-01	03/12/25 08:20	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.55633	7.58717	0.03084	7.50011	7.55914	0.05903	DDD3903	03/28/25 22:52:47
18. L1835703-02	03/12/25 09:35	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.59955	7.62783	0.02828	7.52142	7.57029	0.04887	DDD3903	03/28/25 22:52:47
19. L1835703-03	03/12/25 08:20	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.53341	7.56420	0.03079	7.48806	7.54472	0.05666	DDD3903	03/28/25 22:52:47
20. L1835703-04	03/12/25 09:30	0.500	03/19/25 13:28:00	03/25/25 22:10:00	7.66067	7.69172	0.03105	7.50053	7.55133	0.0508	DDD3903	03/28/25 22:52:47

Comments:Reviewed By:DDD3903 on 03/28/25 22:52:47

Yttrium Recovery

9 mg/ml(Y)

Known $Y_2(C_2O_4)_3 \cdot 9H_2O$

Standardized Value	9.84	mg/ml	Y_2	177.8 g/mol
Volume Added	1.00	mL	$Y_2(C_2O_4)_3.9H_2O$	603.8 g/mol
Mass Added	33.43	mg		

LAB ID	TARE(g)	GROSS(g)	NET(g)	Y %rec
BLANK WG2470402	7.46157	7.49409	0.0325	**97%**
LCS WG2470402	7.61772	7.65114	0.0334	**100.0%**
MS L1834569-04 WG2470402	7.6465	7.67536	0.0289	**86.3%**
MSD L1834569-04 WG2470402	7.6034	7.63551	0.0321	**96.0%**
DUP L1835703-03 WG2470402	7.66963	7.70347	0.0338	**101%**
L1834569-01 WG2470402	7.53891	7.5713	0.0324	**96.9%**
L1834569-02 WG2470402	7.61615	7.64686	0.0307	**91.9%**
L1834569-03 WG2470402	7.66307	7.69615	0.0331	**98.9%**
L1834569-04 WG2470402	7.56887	7.60133	0.0325	**97.1%**
L1834569-09 WG2470402	7.56301	7.59691	0.0339	**101.4%**
L1834569-11 WG2470402	7.5857	7.61757	0.0319	**95.3%**
L1834569-13 WG2470402	7.59412	7.62406	0.0299	**90%**
L1835110-01 WG2470402	7.48618	7.51829	0.0321	**96.0%**
L1835110-05 WG2470402	7.65322	7.68489	0.0317	**94.7%**
L1835110-07 WG2470402	7.68997	7.72261	0.0326	**97.6%**
L1835110-09 WG2470402	7.59091	7.61837	0.0275	**82.1%**
L1835187-02 WG2470402	7.66255	7.69407	0.0315	**94.3%**
L1835187-04 WG2470402	7.58792	7.61993	0.0320	**95.7%**
L1835187-07 WG2470402	7.60351	7.6385	0.0350	**104.7%**
L1835200-01 WG2470402	7.56205	7.59376	0.0317	**94.9%**
L1835200-02 WG2470402	7.65028	7.68067	0.0304	**90.9%**
L1835703-01 WG2470402	7.55633	7.58717	0.0308	**92.2%**
L1835703-02 WG2470402	7.59955	7.62783	0.0283	**84.6%**
L1835703-03 WG2470402	7.53341	7.5642	0.0308	**92.1%**
L1835703-04 WG2470402	7.66067	7.69172	0.0311	**92.9%**
0			0.0000	**0.0%**
0			0.0000	**0.0%**
0			0.0000	**0.0%**

25A21880 Standardization Date: 01/21/25

		Y2(C2O4)3.9H2O	Y g/mL	Y mg/mL
Tare (g)	Gross (g)	Net (g)		
0.08112	0.41313	0.33201	0.00978	9.7766
0.08088	0.41708	0.33620	0.00990	9.9000
0.08230	0.41703	0.33473	0.00986	9.8567

Avg. Y mg/mL

9.8445 ± 0.64%

Barium Recovery

16 mg/ml(Ba)

Known $BaSO_4$

Standardized Value	16.55	mg/ml	Ba	137	g/mol
volume added	2.00	ml			
	56.29	mg	$BaSO_4$	233	g/mol

25A31529 Standardization Date: 2/3/25				
T	G	N		
7.55195	7.60790	0.05595	0.02798	0.0164
7.56393	7.61980	0.05587	0.02793	0.0164
7.55326	7.61030	0.05704	0.02852	0.0168

16.55 +/- 1.2%

LAB ID	TARE(g)	GROSS(g)	NET(g)	%rec
BLANK WG2470402	7.50816	7.55996	0.0518	**92%**
LCS WG2470402	7.50296	7.56073	0.0578	**103%**
MS L1834569-04 WG2470402	7.48809	7.54444	0.0564	**100%**
MSD L1834569-04 WG2470402	7.50819	7.56396	0.0558	**99%**
DUP L1835703-03 WG2470402	7.49662	7.54346	0.0468	**83%**
L1834569-01 WG2470402	7.49502	7.55524	0.0602	**107%**
L1834569-02 WG2470402	7.47716	7.531	0.0538	**96%**
L1834569-03 WG2470402	7.48244	7.54123	0.0588	**104%**
L1834569-04 WG2470402	7.51698	7.57414	0.0572	**102%**
L1834569-09 WG2470402	7.50459	7.56407	0.0595	**106%**
L1834569-11 WG2470402	7.52698	7.58473	0.0578	**103%**
L1834569-13 WG2470402	7.52502	7.57825	0.0532	**95%**
L1835110-01 WG2470402	7.50171	7.55398	0.0523	**93%**
L1835110-05 WG2470402	7.50217	7.56032	0.0582	**103%**
L1835110-07 WG2470402	7.49951	7.55549	0.0560	**99%**
L1835110-09 WG2470402	7.49267	7.55256	0.0599	**106%**
L1835187-02 WG2470402	7.51822	7.5684	0.0502	**89%**
L1835187-04 WG2470402	7.47785	7.52306	0.0452	**80%**
L1835187-07 WG2470402	7.52058	7.57739	0.0568	**101%**
L1835200-01 WG2470402	7.49654	7.54441	0.0479	**85%**
L1835200-02 WG2470402	7.47979	7.52501	0.0452	**80%**
L1835703-01 WG2470402	7.50011	7.55914	0.0590	**105%**
L1835703-02 WG2470402	7.52142	7.57029	0.0489	**87%**
L1835703-03 WG2470402	7.48806	7.54472	0.0567	**101%**
L1835703-04 WG2470402	7.50053	7.55133	0.0508	**90%**
0			0.0000	**0%**
0			0.0000	**0%**
0			0.0000	**0%**

G542 Runlog RA-228 Waters WG2470402

Sample order verified by DDD3903

Sample ID	Beta	LT	Det	Analyst	Start	End
BLANK WG2470402	287	200	3A-1	ALG3788	3/25/2025 23:55	3/26/2025 3:15
LCS WG2470402	960	200	3A-2	ALG3788	3/25/2025 23:55	3/26/2025 3:15
MS L1834569-04 WG2470402	794	200	3A-3	ALG3788	3/25/2025 23:55	3/26/2025 3:15
MSD L1834569-04 WG2470402	943	200	3A-4	ALG3788	3/25/2025 23:55	3/26/2025 3:15
DUP L1835703-03 WG2470402	242	200	3B-1	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-01 WG2470402	206	200	3B-2	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-02 WG2470402	215	200	3B-3	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-03 WG2470402	377	200	3B-4	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-04 WG2470402	221	200	3C-1	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-09 WG2470402	314	200	3C-2	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-11 WG2470402	316	200	3C-3	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1834569-13 WG2470402	337	200	3C-4	ALG3788	3/25/2025 23:55	3/26/2025 3:15
L1835110-01 WG2470402	339	200	3D-1	ALG3788	3/26/2025 0:01	3/26/2025 3:21
L1835110-05 WG2470402	317	200	3D-2	ALG3788	3/26/2025 0:01	3/26/2025 3:21
L1835110-07 WG2470402	345	200	3D-3	ALG3788	3/26/2025 0:01	3/26/2025 3:21
L1835110-09 WG2470402	428	200	4C-2	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835187-02 WG2470402	270	200	4A-1	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835187-04 WG2470402	401	200	4A-2	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835187-07 WG2470402	287	200	4A-3	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835200-01 WG2470402	381	200	4A-4	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835200-02 WG2470402	412	200	4B-1	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835703-01 WG2470402	359	200	4B-2	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835703-02 WG2470402	423	200	4B-3	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835703-03 WG2470402	469	200	4B-4	ALG3788	3/25/2025 23:54	3/26/2025 3:14
L1835703-04 WG2470402	516	200	4C-1	ALG3788	3/25/2025 23:54	3/26/2025 3:14

Unit 3 Beta Efficiencies Det 1-8

		DET1	DET2	DET3	DET 4	DET 5	DET 6	DET 7	DET 8
		y = -0.00006x2 - 0.059x + 45.664	y = -0.0002x2 - 0.0408x + 47.033	y = -0.00004x2 - 0.0505x + 46.152	y = 0.00006x2 - 0.0538x + 46.412	y =- 0.00002x2 - 0.06x + 46.723	y = 0.00004x2 - 0.0598x + 46.129	y = -0.00007x2 - 0.0532x + 47.067	y = 0.00005x2 - 0.0635x + 46.051
	A	-0.00006	-0.0002	-0.0001	0.00006	-0.00002	0.00004	-0.00007	0.00005
	B	-0.059	-0.0408	-0.0505	-0.0538	-0.06	0.0598	-0.0532	-0.0635
	C	45.664	47.033	46.152	46.412	46.723	46.129	47.067	46.051
SAMPLE ID	NET WT. mg	**3A-1** BETA EFF	**3A-2** BETA EFF	**3A-3** BETA EFF	**3A-4** BETA EFF	**3B-1** BETA EFF	**3B-2** BETA EFF	**3B-3** BETA EFF	**3B-4** BETA EFF
BLANK WG2470402	32.52	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.0
LCS WG2470402	33.42	43.6	45.4	44.4	44.7	44.7	48.2	45.2	44.0
MS L1834569-04 WG2470402	28.86	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
MSD L1834569-04 WG2470402	32.11	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.1
DUP L1835703-03 WG2470402	33.84	43.6	45.4	44.3	44.7	44.7	48.2	45.2	44.0
L1834569-01 WG2470402	32.39	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.0
L1834569-02 WG2470402	30.71	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.1
L1834569-03 WG2470402	33.08	43.6	45.5	44.4	44.7	44.7	48.2	45.2	44.0
L1834569-04 WG2470402	32.46	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.0
L1834569-09 WG2470402	33.9	43.6	45.4	44.3	44.7	44.7	48.2	45.2	44.0
L1834569-11 WG2470402	31.87	43.7	45.5	44.4	44.8	44.8	48.1	45.3	44.1
L1834569-13 WG2470402	29.94	43.8	45.6	44.6	44.9	44.9	48.0	45.4	44.2
L1835110-01 WG2470402	32.11	43.7	45.5	44.4	44.7	44.8	48.1	45.3	44.1
L1835110-05 WG2470402	31.67	43.7	45.5	44.5	44.8	44.8	48.1	45.3	44.1
L1835110-07 WG2470402	32.64	43.7	45.5	44.4	44.7	44.7	48.1	45.3	44.0
L1835110-09 WG2470402	27.46	44.0	45.8	44.7	45.0	45.1	47.8	45.6	44.3
L1835187-02 WG2470402	31.52	43.7	45.5	44.5	44.8	44.8	48.1	45.3	44.1
L1835187-04 WG2470402	32.01	43.7	45.5	44.4	44.8	44.8	48.1	45.3	44.1
L1835187-07 WG2470402	34.99	43.5	45.4	44.3	44.6	44.6	48.3	45.1	43.9
L1835200-01 WG2470402	31.71	43.7	45.5	44.5	44.8	44.8	48.1	45.3	44.1
L1835200-02 WG2470402	30.39	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.2
L1835703-01 WG2470402	30.84	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.1
L1835703-02 WG2470402	28.28	43.9	45.7	44.6	44.9	45.0	47.9	45.5	44.3
L1835703-03 WG2470402	30.79	43.8	45.6	44.5	44.8	44.9	48.0	45.4	44.1
L1835703-04 WG2470402	31.05	43.8	45.6	44.5	44.8	44.8	48.0	45.3	44.1
0	0	45.7	47.0	46.2	46.4	46.7	46.1	47.1	46.1
0	0	45.7	47.0	46.2	46.4	46.7	46.1	47.1	46.1
0	0	45.7	47.0	46.2	46.4	46.7	46.1	47.1	46.1

Unit 3 Beta Efficiencies Det 9-16

		DET9	DET10	DET11	DET 12	DET 13	DET 14	DET 15	DET 16
		y = -0.00001x2 - 0.0623x +47.103	y = -0.00004x2 - 0.0573x + 46.66	y = 0.000002x2 - 0.0628x + 47.482	y = -0.00005x2 - 0.0534x + 46.539	y = 0.00004x2 - 0.0691x + 47.134	y = 0.00007x2 - 0.062x + 46.722	y = 0.0002x2 - 0.0656x + 46.404	y = -0.0001x2 - 0.0477x + 46.461
	A	-0.00001	-0.00004	0.000002	-0.00005	0.00004	0.00007	0.00002	-0.0001
	B	-0.0623	-0.0573	-0.0628	-0.0534	-0.0691	-0.062	-0.0656	-0.0477
	C	47.103	46.66	47.482	46.539	47.134	46.722	46.404	46.461
	NET	**3C-1**	**3C-2**	**3C-3**	**3C-4**	**3D-1**	**3D-2**	**3D-3**	**3D-4**
SAMPLE	WT.	BETA	BETA	BETA	BETA	BETA	BETA	BETA	BETA
ID	mg	EFF	EFF	EFF	EFF	EFF	EFF	EFF	EFF
BLANK WG2470402	32.52	45.1	44.8	45.4	44.7	44.9	44.8	44.3	44.8
LCS WG2470402	33.42	45.0	44.7	45.4	44.7	44.9	44.7	44.2	44.8
MS L1834569-04 WG2470402	28.86	45.3	45.0	45.7	45.0	45.2	45.0	44.5	45.0
MSD L1834569-04 WG2470402	32.11	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
DUP L1835703-03 WG2470402	33.84	45.0	44.7	45.4	44.7	44.8	44.7	44.2	44.7
L1834569-01 WG2470402	32.39	45.1	44.8	45.5	44.8	44.9	44.8	44.3	44.8
L1834569-02 WG2470402	30.71	45.2	44.9	45.6	44.9	45.0	44.9	44.4	44.9
L1834569-03 WG2470402	33.08	45.0	44.7	45.4	44.7	44.9	44.7	44.3	44.8
L1834569-04 WG2470402	32.46	45.1	44.8	45.4	44.8	44.9	44.8	44.3	44.8
L1834569-09 WG2470402	33.9	45.0	44.7	45.4	44.7	44.8	44.7	44.2	44.7
L1834569-11 WG2470402	31.87	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
L1834569-13 WG2470402	29.94	45.2	44.9	45.6	44.9	45.1	44.9	44.5	44.9
L1835110-01 WG2470402	32.11	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
L1835110-05 WG2470402	31.67	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.9
L1835110-07 WG2470402	32.64	45.1	44.7	45.4	44.7	44.9	44.8	44.3	44.8
L1835110-09 WG2470402	27.46	45.4	45.1	45.8	45.0	45.3	45.1	44.6	45.1
L1835187-02 WG2470402	31.52	45.1	44.8	45.5	44.8	45.0	44.8	44.4	44.9
L1835187-04 WG2470402	32.01	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
L1835187-07 WG2470402	34.99	44.9	44.6	45.3	44.6	44.8	44.6	44.1	44.7
L1835200-01 WG2470402	31.71	45.1	44.8	45.5	44.8	45.0	44.8	44.3	44.8
L1835200-02 WG2470402	30.39	45.2	44.9	45.6	44.9	45.1	44.9	44.4	44.9
L1835703-01 WG2470402	30.84	45.2	44.9	45.5	44.8	45.0	44.9	44.4	44.9
L1835703-02 WG2470402	28.28	45.3	45.0	45.7	45.0	45.2	45.0	44.6	45.0
L1835703-03 WG2470402	30.79	45.2	44.9	45.6	44.8	45.0	44.9	44.4	44.9
L1835703-04 WG2470402	31.05	45.2	44.8	45.5	44.8	45.0	44.9	44.4	44.9
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5
0	0	47.1	46.7	47.5	46.5	47.1	46.7	46.4	46.5

Unit 4 Beta Efficiencies Det 1-8

y = 0.000003x2 - 0.066x y = 0.0001x2 - 0.0498x + y = 0.00007x2 - 0.0559x y = 0.0001x2 - 0.0501x + y = 0.0006x2 - 0.0004x + y = 0.0002x2 - 0.0367x + y = 0.00004x2 - 0.0695x y = 0.000008x2 - 0.0632x +49.191

A	0.000003	0.0001	0.00007	0.0001	0.0006	0.0002	0.00004	0.000008
B	-0.066	-0.0498	-0.0559	-0.0501	-0.0004	-0.0367	-0.0695	-0.0632
C	49.22	48.106	48.098	49.339	47.611	48.89	50.012	49.191

SAMPLE ID	NET WT. mg	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF
=======	=====	=====	=====	=====	=====	=====	=====	=====	=====
BLANK WG2470402	32.52	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.1
LCS WG2470402	33.42	47.0	46.6	46.3	47.8	48.3	47.9	47.7	47.1
MS L1834569-04 WG2470402	28.86	47.3	46.8	46.5	48.0	48.1	48.0	48.0	47.4
MSD L1834569-04 WG2470402	32.11	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
DUP L1835703-03 WG2470402	33.84	47.0	46.5	46.3	47.8	48.3	47.9	47.7	47.1
L1834569-01 WG2470402	32.39	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
L1834569-02 WG2470402	30.71	47.2	46.7	46.4	47.9	48.2	48.0	47.9	47.3
L1834569-03 WG2470402	33.08	47.0	46.6	46.3	47.8	48.3	47.9	47.8	47.1
L1834569-04 WG2470402	32.46	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.1
L1834569-09 WG2470402	33.9	47.0	46.5	46.3	47.8	48.3	47.9	47.7	47.1
L1834569-11 WG2470402	31.87	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
L1834569-13 WG2470402	29.94	47.2	46.7	46.5	47.9	48.1	48.0	48.0	47.3
L1835110-01 WG2470402	32.11	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
L1835110-05 WG2470402	31.67	47.1	46.6	46.4	47.9	48.2	47.9	47.9	47.2
L1835110-07 WG2470402	32.64	47.1	46.6	46.3	47.8	48.2	47.9	47.8	47.1
L1835110-09 WG2470402	27.46	47.4	46.8	46.6	48.0	48.1	48.0	48.1	47.5
L1835187-02 WG2470402	31.52	47.1	46.6	46.4	47.9	48.2	47.9	47.9	47.2
L1835187-04 WG2470402	32.01	47.1	46.6	46.4	47.8	48.2	47.9	47.8	47.2
L1835187-07 WG2470402	34.99	46.9	46.5	46.2	47.7	48.3	47.9	47.6	47.0
L1835200-01 WG2470402	31.71	47.1	46.6	46.4	47.9	48.2	47.9	47.8	47.2
L1835200-02 WG2470402	30.39	47.2	46.7	46.5	47.9	48.2	48.0	47.9	47.3
L1835703-01 WG2470402	30.84	47.2	46.7	46.4	47.9	48.2	47.9	47.9	47.2
L1835703-02 WG2470402	28.28	47.4	46.8	46.6	48.0	48.1	48.0	48.1	47.4
L1835703-03 WG2470402	30.79	47.2	46.7	46.4	47.9	48.2	47.9	47.9	47.3
L1835703-04 WG2470402	31.05	47.2	46.7	46.4	47.9	48.2	47.9	47.9	47.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2
0	0	49.2	48.1	48.1	49.3	47.6	48.9	50.0	49.2

Unit 4 Beta Efficiencies Det 9-16

	y = 0.0001x2 - 0.0881x +	y = 0.000009x2 - 0.0693	y = 0.00006x2 - 0.077x +	y = 0.00001x2 - 0.064x +	y = 0.00008x2 - 0.0606x	y = 0.0001x2 - 0.0548x +	y = 0.00002x2 - 0.0667x	y = 0.0004x2 - 0.1078x +50.001
A	0.0001	0.000009	0.00006	0.00001	0.00008	0.0001	0.00002	0.0004
B	-0.0881	-0.0693	-0.077	-0.064	-0.0606	-0.0548	-0.0667	-0.1078
C	47.883	48.266	49.14	48.492	49.387	49.512	48.519	50.001

SAMPLE ID	WT. mg	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF	BETA EFF
BLANK WG2470402	32.52	45.1	46.0	46.7	46.4	47.5	47.8	46.4	46.9
LCS WG2470402	33.42	45.1	46.0	46.6	46.4	47.5	47.8	46.3	46.8
MS L1834569-04 WG2470402	28.86	45.4	46.3	47.0	46.7	47.7	48.0	46.6	47.2
MSD L1834569-04 WG2470402	32.11	45.2	46.1	46.7	46.4	47.5	47.9	46.4	47.0
DUP L1835703-03 WG2470402	33.84	45.0	45.9	46.6	46.3	47.4	47.8	46.3	46.8
L1834569-01 WG2470402	32.39	45.1	46.0	46.7	46.4	47.5	47.8	46.4	46.9
L1834569-02 WG2470402	30.71	45.3	46.1	46.8	46.5	47.6	47.9	46.5	47.1
L1834569-03 WG2470402	33.08	45.1	46.0	46.7	46.4	47.5	47.8	46.3	46.9
L1834569-04 WG2470402	32.46	45.1	46.0	46.7	46.4	47.5	47.8	46.4	46.9
L1834569-09 WG2470402	33.9	45.0	45.9	46.6	46.3	47.4	47.8	46.3	46.8
L1834569-11 WG2470402	31.87	45.2	46.1	46.7	46.5	47.5	47.9	46.4	47.0
L1834569-13 WG2470402	29.94	45.3	46.2	46.9	46.6	47.6	48.0	46.5	47.1
L1835110-01 WG2470402	32.11	45.2	46.1	46.7	46.4	47.5	47.9	46.4	47.0
L1835110-05 WG2470402	31.67	45.2	46.1	46.8	46.5	47.5	47.9	46.4	47.0
L1835110-07 WG2470402	32.64	45.1	46.0	46.7	46.4	47.5	47.8	46.4	46.9
L1835110-09 WG2470402	27.46	45.5	46.4	47.1	46.7	47.8	48.1	46.7	47.3
L1835187-02 WG2470402	31.52	45.2	46.1	46.8	46.5	47.6	47.9	46.4	47.0
L1835187-04 WG2470402	32.01	45.2	46.1	46.7	46.5	47.5	47.9	46.4	47.0
L1835187-07 WG2470402	34.99	44.9	45.9	46.5	46.3	47.4	47.7	46.2	46.7
L1835200-01 WG2470402	31.71	45.2	46.1	46.8	46.5	47.5	47.9	46.4	47.0
L1835200-02 WG2470402	30.39	45.3	46.2	46.9	46.6	47.6	47.9	46.5	47.1
L1835703-01 WG2470402	30.84	45.3	46.1	46.8	46.5	47.6	47.9	46.5	47.1
L1835703-02 WG2470402	28.28	45.5	46.3	47.0	46.7	47.7	48.0	46.6	47.3
L1835703-03 WG2470402	30.79	45.3	46.1	46.8	46.5	47.6	47.9	46.5	47.1
L1835703-04 WG2470402	31.05	45.2	46.1	46.8	46.5	47.6	47.9	46.5	47.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0
0	0	47.9	48.3	49.1	48.5	49.4	49.5	48.5	50.0

Monthly Backgrounds 03/25 for G542 Unit 3

Sample ID	Alpha	Beta	LT	Det	Analyst	Start	End	ALPHA CPM	BETA CPM
BG01	85	1657	1000	3A-1		3/1/2025 1:01	3/1/2025 17:41	0.085	1.657
BG02	92	1690	1000	3A-2		3/1/2025 1:01	3/1/2025 17:41	0.092	1.69
BG03	68	1216	1000	3A-3		3/1/2025 1:01	3/1/2025 17:41	0.068	1.216
BG04	62	1701	1000	3A-4		3/1/2025 1:01	3/1/2025 17:41	0.062	1.701
BG05	82	1053	1000	3B-1		3/1/2025 1:01	3/1/2025 17:41	0.082	1.053
BG06	64	995	1000	3B-2		3/1/2025 1:01	3/1/2025 17:41	0.064	0.995
BG07	54	921	1000	3B-3		3/1/2025 1:01	3/1/2025 17:41	0.054	0.921
BG08	94	1956	1000	3B-4		3/1/2025 1:01	3/1/2025 17:41	0.094	1.956
BG09	101	1213	1000	3C-1		3/1/2025 1:01	3/1/2025 17:41	0.101	1.213
BG10	60	1558	1000	3C-2		3/1/2025 1:01	3/1/2025 17:41	0.06	1.558
BG11	62	1398	1000	3C-3		3/1/2025 1:01	3/1/2025 17:41	0.062	1.398
BG12	88	1075	1000	3C-4		3/1/2025 1:01	3/1/2025 17:41	0.088	1.075
BG13	162	1127	1000	3D-1		3/1/2025 1:01	3/1/2025 17:41	0.162	1.127
BG14	69	971	1000	3D-2		3/1/2025 1:01	3/1/2025 17:41	0.069	0.971
BG15	86	1054	1000	3D-3		3/1/2025 1:01	3/1/2025 17:41	0.086	1.054
BG16	159	1215	1000	3D-4		3/1/2025 1:01	3/1/2025 17:41	0.159	1.215

GAS COUNTER G542 Unit: 3 MONTH: Mar-25 BETA BACKGROUND
Beta Background

1 Count Time: 100 min

	3A-1		3A-2		3A-3		3A-4		3B-1		3B-2		3B-3		3B-4		3C-1		3C-2		3C-3		3C-4		3D-1		3D-2		3D-3		3D-4	
DATE	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM
1	165.7	**1.66**	169	**1.69**	121.6	**1.22**	170.1	**1.70**	105.3	**1.05**	99.5	**1.00**	92.1	**0.92**	195.6	**1.96**	121.3	**1.21**	155.8	**1.56**	139.8	**1.40**	107.5	**1.08**	112.7	**1.13**	97.1	**0.97**	105.4	**1.05**	121.5	**1.22**
2																																
3	154	**1.54**	161	**1.61**	94	**0.94**	159	**1.59**	93	**0.93**	78	**0.78**	77	**0.77**	158	**1.58**	102	**1.02**	143	**1.43**	161	**1.61**	115	**1.15**	124	**1.24**	92	**0.92**	106	**1.06**	102	**1.02**
4	170	**1.70**	165	**1.65**	122	**1.22**	137	**1.37**	102	**1.02**	107	**1.07**	98	**0.98**	174	**1.74**	122	**1.22**	161	**1.61**	141	**1.41**	103	**1.03**	104	**1.04**	98	**0.98**	102	**1.02**	106	**1.06**
5	164	**1.64**	156	**1.56**	168	**1.68**	147	**1.47**	94	**0.94**	98	**0.98**	91	**0.91**	185	**1.85**	106	**1.06**	166	**1.66**	182	**1.82**	108	**1.08**	96	**0.96**	95	**0.95**	114	**1.14**	122	**1.22**
6	141	**1.41**	155	**1.55**	116	**1.16**	147	**1.47**	81	**0.81**	86	**0.86**	69	**0.69**	181	**1.81**	117	**1.17**	158	**1.58**	159	**1.59**	96	**0.96**	116	**1.16**	90	**0.90**	100	**1.00**	106	**1.06**
7	161	**1.61**	173	**1.73**	121	**1.21**	167	**1.67**	90	**0.90**	105	**1.05**	97	**0.97**	153	**1.53**	142	**1.42**	146	**1.46**	154	**1.54**	96	**0.96**	81	**0.81**	92	**0.92**	117	**1.17**	115	**1.15**
8																																
9																																
10	131	**1.31**	177	**1.77**	113	**1.13**	147	**1.47**	101	**1.01**	121	**1.21**	79	**0.79**	154	**1.54**	103	**1.03**	169	**1.69**	135	**1.35**	90	**0.90**	100	**1.00**	102	**1.02**	99	**0.99**	127	**1.27**
11	137	**1.37**	144	**1.44**	107	**1.07**	148	**1.48**	104	**1.04**	102	**1.02**	95	**0.95**	185	**1.85**	107	**1.07**	184	**1.84**	148	**1.48**	83	**0.83**	109	**1.09**	105	**1.05**	100	**1.00**	127	**1.27**
12	194	**1.94**	159	**1.59**	130	**1.30**	170	**1.70**	107	**1.07**	108	**1.08**	113	**1.13**	189	**1.89**	145	**1.45**	161	**1.61**	155	**1.55**	94	**0.94**	130	**1.30**	130	**1.30**	106	**1.06**	126	**1.26**
13	177	**1.77**	156	**1.56**	168	**1.68**	170	**1.70**	78	**0.78**	102	**1.02**	97	**0.97**	168	**1.68**	115	**1.15**	159	**1.59**	166	**1.66**	114	**1.14**	115	**1.15**	90	**0.90**	110	**1.10**	105	**1.05**
14	166	**1.66**	175	**1.75**	223	**2.23**	142	**1.42**	117	**1.17**	133	**1.33**	95	**0.95**	209	**2.09**	160	**1.60**	159	**1.59**	150	**1.50**	112	**1.12**	100	**1.00**	123	**1.23**	108	**1.08**	129	**1.29**
15																																
16																																
17	159	**1.59**	146	**1.46**	108	**1.08**	142	**1.42**	102	**1.02**	103	**1.03**	81	**0.81**	156	**1.56**	92	**0.92**	137	**1.37**	144	**1.44**	87	**0.87**	119	**1.19**	111	**1.11**	106	**1.06**	120	**1.20**
18	142	**1.42**	180	**1.80**	132	**1.32**	159	**1.59**	82	**0.82**	109	**1.09**	89	**0.89**	187	**1.87**	106	**1.06**	157	**1.57**	140	**1.40**	87	**0.87**	101	**1.01**	109	**1.09**	93	**0.93**	134	**1.34**
19	163	**1.63**	173	**1.73**	137	**1.37**	151	**1.51**	96	**0.96**	112	**1.12**	92	**0.92**	196	**1.96**	124	**1.24**	143	**1.43**	133	**1.33**	105	**1.05**	109	**1.09**	100	**1.00**	100	**1.00**	93	**0.93**
20	145	**1.45**	182	**1.82**	135	**1.35**	145	**1.45**	94	**0.94**	97	**0.97**	98	**0.98**	184	**1.84**	125	**1.25**	156	**1.56**	136	**1.36**	100	**1.00**	134	**1.34**	118	**1.18**	118	**1.18**	132	**1.32**
21	158	**1.58**	167	**1.67**	131	**1.31**	177	**1.77**	94	**0.94**	101	**1.01**	104	**1.04**	186	**1.86**	107	**1.07**	169	**1.69**	131	**1.31**	120	**1.20**	115	**1.15**	109	**1.09**	95	**0.95**	141	**1.41**
22	173	**1.73**	142	**1.42**	83	**0.83**	165	**1.65**	92	**0.92**	101	**1.01**	84	**0.84**	168	**1.68**	114	**1.14**	159	**1.59**	145	**1.45**	110	**1.10**	102	**1.02**	97	**0.97**	94	**0.94**	123	**1.23**
23																																
24	166	**1.66**	171	**1.71**	255	**2.55**	150	**1.50**	107	**1.07**	95	**0.95**	106	**1.06**	167	**1.67**	102	**1.02**	152	**1.52**	158	**1.58**	96	**0.96**	113	**1.13**	103	**1.03**	99	**0.99**	121	**1.21**
25	206	**2.06**	148	**1.48**	131	**1.31**	164	**1.64**	96	**0.96**	98	**0.98**	94	**0.94**	194	**1.94**	116	**1.16**	142	**1.42**	143	**1.43**	109	**1.09**	113	**1.13**	115	**1.15**	138	**1.38**	141	**1.41**
26	156	**1.56**	166	**1.66**	130	**1.30**	169	**1.69**	120	**1.20**	100	**1.00**	115	**1.15**	149	**1.49**	122	**1.22**	164	**1.64**	161	**1.61**	124	**1.24**	93	**0.93**	101	**1.01**	113	**1.13**	121	**1.21**
27	167	**1.67**	160	**1.60**	113	**1.13**	153	**1.53**	90	**0.90**	82	**0.82**	85	**0.85**	149	**1.49**	100	**1.00**	172	**1.72**	146	**1.46**	82	**0.82**	99	**0.99**	99	**0.99**	92	**0.92**	111	**1.11**
28	142	**1.42**	191	**1.91**	150	**1.50**	157	**1.57**	98	**0.98**	103	**1.03**	101	**1.01**	174	**1.74**	105	**1.05**	140	**1.40**	147	**1.47**	121	**1.21**	122	**1.22**	84	**0.84**	99	**0.99**	108	**1.08**
29																																
30																																
31																																
average	**161**	**1.61**	**164**	**1.64**	**136**	**1.36**	**156**	**1.56**	**97**	**0.97**	**102**	**1.02**	**93**	**0.93**	**176**	**1.76**	**116**	**1.16**	**157**	**1.57**	**149**	**1.49**	**103**	**1.03**	**109**	**1.09**	**103**	**1.03**	**105**	**1.05**	**120**	**1.20**
std dev	18	0.18	13	0.13	39	0.39	11	0.11	11	0.11	12	0.12	11	0.11	17	0.17	16	0.16	12	0.12	12	0.12	13	0.13	13	0.13	11	0.11	10	0.10	13	0.13
UCL	**214**	**2.14**	**203**	**2.03**	**254**	**2.54**	**190**	**1.90**	**129**	**1.29**	**137**	**1.37**	**127**	**1.27**	**227**	**2.27**	**165**	**1.65**	**192**	**1.92**	**186**	**1.86**	**140**	**1.40**	**147**	**1.47**	**137**	**1.37**	**137**	**1.37**	**158**	**1.58**
UWL	**196**	**1.96**	**190**	**1.90**	**214**	**2.14**	**179**	**1.79**	**118**	**1.18**	**125**	**1.25**	**116**	**1.16**	**210**	**2.10**	**149**	**1.49**	**180**	**1.80**	**173**	**1.73**	**128**	**1.28**	**135**	**1.35**	**126**	**1.26**	**126**	**1.26**	**145**	**1.45**
LWL	**125**	**1.25**	**138**	**1.38**	**57**	**0.57**	**133**	**1.33**	**76**	**0.76**	**78**	**0.78**	**71**	**0.71**	**141**	**1.41**	**83**	**0.83**	**134**	**1.34**	**124**	**1.24**	**78**	**0.78**	**84**	**0.84**	**80**	**0.80**	**84**	**0.84**	**94**	**0.94**
LCL	**107**	**1.07**	**125**	**1.25**	**18**	**0.18**	**122**	**1.22**	**66**	**0.66**	**67**	**0.67**	**59**	**0.59**	**124**	**1.24**	**67**	**0.67**	**122**	**1.22**	**112**	**1.12**	**65**	**0.65**	**72**	**0.72**	**68**	**0.68**	**74**	**0.74**	**82**	**0.82**

Data From Previous Month

average	**164.062**	**1.641**	**164.605**	**1.646**	**145.748**	**1.457**	**150.876**	**1.509**	**95.686**	**0.957**	**94.919**	**0.949**	**94.857**	**0.949**	**173.057**	**1.731**	**112.657**	**1.127**	**151.819**	**1.518**	**142.524**	**1.425**	**102.038**	**1.020**	**102.619**	**1.026**	**100.029**	**1.000**	**107.238**	**1.072**	**112.357**	**1.124**
std dev	**14.454**	**0.145**	**14.718**	**0.147**	**41.007**	**0.410**	**15.785**	**0.158**	**10.130**	**0.101**	**14.482**	**0.145**	**9.977**	**0.100**	**17.627**	**0.176**	**11.150**	**0.111**	**16.027**	**0.160**	**13.845**	**0.138**	**11.389**	**0.114**	**11.805**	**0.118**	**13.853**	**0.139**	**14.650**	**0.146**	**13.670**	**0.137**
UCL	**207.424**	**2.074**	**208.758**	**2.088**	**268.769**	**2.688**	**198.230**	**1.982**	**126.075**	**1.261**	**138.365**	**1.384**	**124.789**	**1.248**	**225.939**	**2.259**	**146.106**	**1.461**	**199.899**	**1.999**	**184.058**	**1.841**	**136.206**	**1.362**	**138.035**	**1.380**	**141.586**	**1.416**	**151.187**	**1.512**	**153.367**	**1.534**
UWL	**192.970**	**1.930**	**194.040**	**1.940**	**227.762**	**2.278**	**182.445**	**1.824**	**115.945**	**1.159**	**123.883**	**1.239**	**114.812**	**1.148**	**208.311**	**2.083**	**134.956**	**1.350**	**183.873**	**1.839**	**170.213**	**1.702**	**124.817**	**1.248**	**126.230**	**1.262**	**127.734**	**1.277**	**136.538**	**1.365**	**139.697**	**1.397**
LWL	**135.154**	**1.352**	**135.169**	**1.352**	**63.733**	**0.637**	**119.307**	**1.193**	**75.426**	**0.754**	**65.955**	**0.660**	**74.903**	**0.749**	**137.803**	**1.378**	**90.358**	**0.904**	**119.766**	**1.198**	**114.835**	**1.148**	**79.259**	**0.793**	**79.008**	**0.790**	**72.323**	**0.723**	**77.939**	**0.779**	**85.017**	**0.850**
LCL	**120.700**	**1.207**	**120.452**	**1.205**	**22.726**	**0.227**	**103.522**	**1.035**	**65.296**	**0.653**	**51.473**	**0.515**	**64.926**	**0.649**	**120.176**	**1.202**	**79.208**	**0.792**	**103.739**	**1.037**	**100.990**	**1.010**	**67.870**	**0.679**	**67.203**	**0.672**	**58.471**	**0.585**	**63.289**	**0.633**	**71.348**	**0.713**

GAS COUNTER G542 Unit: 3 MONTH: March-25
Beta Source Check
23F05880

BETA Activity: **7861.05** **dpm** Count Time: **5** **min**

	3A-1		3A-2		3A-3		3A-4		3B-1		3B-2		3B-3		3B-4		3C-1		3C-2		3C-3		3C-4		3D-1		3D-2		3D-3		3D-4	
DATE	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF
1																																
2																																
3	17400	**44.3%**	18066	**46.0%**	17705	**45.0%**	17916	**45.6%**	18175	**46.2%**	16169	**41.1%**	17792	**45.3%**	17796	**45.3%**	16520	**42.0%**	17333	**44.1%**	18382	**46.8%**	16197	**41.2%**	18315	**46.6%**	17874	**45.5%**	18108	**46.1%**	18310	**46.6%**
4	16711	**42.5%**	18134	**46.1%**	16457	**41.9%**	17358	**44.2%**	16176	**41.2%**	18079	**46.0%**	18471	**47.0%**	17214	**43.8%**	17884	**45.5%**	18095	**46.0%**	16972	**43.2%**	18145	**46.2%**	17870	**45.5%**	18013	**45.8%**	17800	**45.3%**	16262	**41.4%**
5	17702	**45.0%**	18398	**46.8%**	16811	**42.8%**	16027	**40.8%**	18250	**46.4%**	17971	**45.7%**	16148	**41.1%**	17001	**43.3%**	16200	**41.2%**	17777	**45.2%**	17856	**45.4%**	18188	**46.3%**	18060	**45.9%**	15882	**40.4%**	16668	**42.4%**	18293	**46.5%**
6	16353	**41.6%**	18166	**46.2%**	16044	**40.8%**	17409	**44.3%**	16065	**40.9%**	17770	**45.2%**	17585	**44.7%**	17556	**44.7%**	18024	**45.9%**	16405	**41.7%**	18278	**46.5%**	17615	**44.8%**	17821	**45.3%**	17770	**45.2%**	16877	**42.9%**	17793	**45.3%**
7	17158	**43.7%**	18321	**46.6%**	16186	**41.2%**	16253	**41.4%**	18142	**46.2%**	18219	**46.4%**	18124	**46.1%**	16722	**42.5%**	18004	**45.8%**	18314	**46.6%**	16659	**42.4%**	17730	**45.1%**	16177	**41.2%**	16360	**41.6%**	17120	**43.6%**	17962	**45.7%**
8																																
9																																
10	17098	**43.5%**	18098	**46.0%**	16085	**40.9%**	18259	**46.5%**	16463	**41.9%**	17980	**45.7%**	16959	**43.1%**	17934	**45.6%**	16168	**41.1%**	18591	**47.3%**	18102	**46.1%**	18014	**45.8%**	16823	**42.8%**	16536	**42.1%**	17904	**45.6%**	17669	**45.0%**
11	16025	**40.8%**	18238	**46.4%**	15702	**39.9%**	16467	**41.9%**	17485	**44.5%**	18042	**45.9%**	17728	**45.1%**	17748	**45.2%**	17818	**45.3%**	18048	**45.9%**	16612	**42.3%**	17916	**45.6%**	17728	**45.1%**	18030	**45.9%**	15893	**40.4%**	17770	**45.2%**
12	15750	**40.1%**	16496	**42.0%**	17599	**44.8%**	16738	**42.6%**	18477	**47.0%**	17818	**45.3%**	17808	**45.3%**	17638	**44.9%**	16202	**41.2%**	18015	**45.8%**	18214	**46.3%**	18233	**46.4%**	18154	**46.2%**	16736	**42.6%**	16053	**40.8%**	16387	**41.7%**
13	17543	**44.6%**	18117	**46.1%**	17885	**45.5%**	16261	**41.4%**	17881	**45.5%**	17109	**43.5%**	18095	**46.0%**	16091	**40.9%**	18340	**46.7%**	16161	**41.1%**	18486	**47.0%**	17546	**44.6%**	17948	**45.7%**	16598	**42.2%**	17559	**44.7%**	17768	**45.2%**
14	16850	**42.9%**	18343	**46.7%**	15932	**40.5%**	18034	**45.9%**	16774	**42.7%**	17899	**45.5%**	17166	**43.7%**	17767	**45.2%**	18013	**45.8%**	17626	**44.8%**	16674	**42.4%**	18212	**46.3%**	15922	**40.5%**	18034	**45.9%**	17041	**43.4%**	16805	**42.8%**
15																																
16																																
17	17111	**43.5%**	18232	**46.4%**	17346	**44.1%**	17623	**44.8%**	18032	**45.9%**	17234	**43.8%**	16502	**42.0%**	17587	**44.7%**	17951	**45.7%**	17643	**44.9%**	18221	**46.4%**	18112	**46.1%**	16149	**41.1%**	18126	**46.1%**	15950	**40.6%**	17761	**45.2%**
18	17561	**44.7%**	18649	**47.4%**	16026	**40.8%**	17487	**44.5%**	18435	**46.9%**	16493	**42.0%**	18170	**46.2%**	17396	**44.3%**	17853	**45.4%**	16733	**42.6%**	17437	**44.4%**	17792	**45.3%**	16813	**42.8%**	18060	**45.9%**	15951	**40.6%**	18316	**46.6%**
19	17473	**44.5%**	18074	**46.0%**	16306	**41.5%**	18035	**45.9%**	17961	**45.7%**	16277	**41.4%**	18105	**46.1%**	17723	**45.1%**	18667	**47.5%**	16514	**42.0%**	17028	**43.3%**	18359	**46.7%**	18184	**46.3%**	17836	**45.4%**	17921	**45.6%**	16297	**41.5%**
20	17645	**44.9%**	16607	**42.3%**	16006	**40.7%**	17692	**45.0%**	16262	**41.4%**	17812	**45.3%**	17762	**45.2%**	16726	**42.6%**	18318	**46.6%**	18462	**47.0%**	18169	**46.2%**	17798	**45.3%**	18117	**46.1%**	16787	**42.7%**	17653	**44.9%**	16668	**42.4%**
21	16895	**43.0%**	18246	**46.4%**	17187	**43.7%**	18162	**46.2%**	16252	**41.3%**	16845	**42.9%**	18583	**47.3%**	16306	**41.5%**	16632	**42.3%**	18427	**46.9%**	18026	**45.9%**	17900	**45.5%**	18318	**46.6%**	18077	**46.0%**	17344	**44.1%**	18141	**46.2%**
22	15739	**40.0%**	18101	**46.1%**	16326	**41.5%**	16883	**43.0%**	18215	**46.3%**	17274	**43.9%**	18024	**45.9%**	17733	**45.1%**	16334	**41.6%**	16943	**43.1%**	16389	**41.7%**	17896	**45.5%**	18189	**46.3%**	17874	**45.5%**	18076	**46.0%**	17341	**44.1%**
23																																
24	17444	**44.4%**	18046	**45.9%**	15901	**40.5%**	18207	**46.3%**	18345	**46.7%**	16037	**40.8%**	18003	**45.8%**	16020	**40.8%**	18478	**47.0%**	18440	**46.9%**	17977	**45.7%**	16944	**43.1%**	16997	**43.2%**	17454	**44.4%**	18283	**46.5%**	18203	**46.3%**
25	17497	**44.5%**	16442	**41.8%**	17449	**44.4%**	18173	**46.2%**	16189	**41.2%**	18312	**46.6%**	17859	**45.4%**	17506	**44.5%**	18450	**46.9%**	17936	**45.6%**	18367	**46.7%**	16427	**41.8%**	17683	**45.0%**	17982	**45.7%**	17863	**45.4%**	16342	**41.6%**
26	16865	**42.9%**	16575	**42.2%**	16073	**40.9%**	18091	**46.0%**	16941	**43.1%**	17933	**45.6%**	18215	**46.3%**	17324	**44.1%**	18033	**45.9%**	16098	**41.0%**	17874	**45.5%**	18165	**46.2%**	17734	**45.1%**	16968	**43.2%**	17404	**44.3%**	18107	**46.1%**
27	17586	**44.7%**	18645	**47.4%**	17491	**44.5%**	17921	**45.6%**	16227	**41.3%**	18107	**46.1%**	16542	**42.1%**	17477	**44.5%**	17748	**45.2%**	16340	**41.6%**	17624	**44.8%**	17762	**45.2%**	16020	**40.8%**	17982	**45.7%**	18132	**46.1%**	17912	**45.6%**
28	15648	**39.8%**	17271	**43.9%**	17799	**45.3%**	17431	**44.3%**	17969	**45.7%**	16176	**41.2%**	17736	**45.1%**	17392	**44.2%**	17841	**45.4%**	17722	**45.1%**	18364	**46.7%**	16174	**41.1%**	18190	**46.3%**	17761	**45.2%**	16219	**41.3%**	16782	**42.7%**
29																																
30																																
31																																
average	**16955**	**43.1%**	**17870**	**45.5%**	**16682**	**42.4%**	**17448.9**	**44.4%**	**17367.4**	**44.2%**	**17407.4**	**44.3%**	**17684.6**	**45.0%**	**17269**	**43.9%**	**17594**	**44.8%**	**17506**	**44.5%**	**17701**	**45.0%**	**17673**	**45.0%**	**17486**	**44.5%**	**17464**	**44.4%**	**17229**	**43.8%**	**17471**	**44.4%**
std dev	677	1.72%	718	0.02	750	0.02	727	0.02	926	0.02	773	0.02	657	0.02	575	0.01	850	2.16%	836	0.02	691	0.02	665	0.02	833	2.12%	703	0.02	817	0.021	748	0.019
UCL	**18987**	**48.3%**	**20024**	**50.9%**	**18932**	**48.2%**	**19628**	**49.9%**	**20144**	**51.3%**	**19726**	**50.2%**	**19656**	**50.0%**	**18995**	**48.3%**	**20145**	**51.3%**	**20015**	**50.9%**	**19774**	**50.3%**	**19668**	**50.0%**	**19986**	**50.8%**	**19572**	**49.8%**	**19681**	**50.1%**	**19715**	**50.2%**
UWL	**18310**	**46.6%**	**19306**	**49.1%**	**18182**	**46.3%**	**18902**	**48.1%**	**19219**	**48.9%**	**18953**	**48.2%**	**18999**	**48.3%**	**18420**	**46.9%**	**19295**	**49.1%**	**19179**	**48.8%**	**19083**	**48.6%**	**19003**	**48.3%**	**19153**	**48.7%**	**18869**	**48.0%**	**18864**	**48.0%**	**18967**	**48.3%**
LWL	**15600**	**39.7%**	**16434**	**41.8%**	**15181**	**38.6%**	**15996**	**40.7%**	**15516**	**39.5%**	**15862**	**40.4%**	**16370**	**41.6%**	**16119**	**41.0%**	**15893**	**40.4%**	**15833**	**40.3%**	**16318**	**41.5%**	**16343**	**41.6%**	**15820**	**40.2%**	**16058**	**40.9%**	**15595**	**39.7%**	**15975**	**40.6%**
LCL	**14923**	**38.0%**	**15715**	**40.0%**	**14431**	**36.7%**	**15269**	**38.8%**	**14591**	**37.1%**	**15089**	**38.4%**	**15713**	**40.0%**	**15544**	**39.5%**	**15043**	**38.3%**	**14996**	**38.2%**	**15627**	**39.8%**	**15678**	**39.9%**	**14986**	**38.1%**	**15356**	**39.1%**	**14778**	**37.6%**	**15227**	**38.7%**

Data From Previous Month

average	########	**43.06%**	########	**46.09%**	########	**42.43%**	########	**44.14%**	########	**44.46%**	########	**44.02%**	########	**43.88%**	########	**43.81%**	########	**45.04%**	########	**44.65%**	########	**45.60%**	########	**44.69%**	########	**44.22%**	########	**44.08%**	########	**43.28%**	########	**43.95%**
std dev	########	**1.89%**	########	**1.47%**	########	**1.97%**	########	**1.84%**	########	**1.75%**	########	**2.23%**	########	**2.17%**	########	**1.84%**	########	**1.65%**	########	**1.89%**	########	**1.47%**	########	**1.79%**	########	**1.71%**	########	**1.69%**	########	**1.62%**	########	**1.85%**
UCL	########	**48.73%**	########	**50.51%**	########	**48.33%**	########	**49.67%**	########	**49.72%**	########	**50.70%**	########	**50.39%**	########	**49.34%**	########	**49.98%**	########	**50.31%**	########	**50.00%**	########	**50.06%**	########	**49.35%**	########	**49.15%**	########	**48.14%**	########	**49.48%**
UWL	########	**46.84%**	########	**49.04%**	########	**46.37%**	########	**47.82%**	########	**47.96%**	########	**48.48%**	########	**48.22%**	########	**47.50%**	########	**48.34%**	########	**48.42%**	########	**48.53%**	########	**48.27%**	########	**47.64%**	########	**47.46%**	########	**46.52%**	########	**47.64%**
LWL	########	**39.27%**	########	**43.14%**	########	**38.50%**	########	**40.46%**	########	**40.95%**	########	**39.57%**	########	**39.55%**	########	**40.13%**	########	**41.75%**	########	**40.88%**	########	**42.67%**	########	**41.12%**	########	**40.79%**	########	**40.71%**	########	**40.04%**	########	**40.26%**
LCL	########	**37.38%**	########	**41.66%**	########	**36.53%**	########	**38.61%**	########	**39.19%**	########	**37.34%**	########	**37.38%**	########	**38.29%**	########	**40.10%**	########	**38.99%**	########	**41.20%**	########	**39.33%**	########	**39.08%**	########	**39.02%**	########	**38.42%**	########	**38.41%**

Monthly Backgrounds 03/01/25 for G542 Unit 4

Sample ID	Alpha	Beta	LT	Det	Analyst	Start	End	ALPHA CPM	BETA CPM
BK01	175	1148	1000	4A-1		2/28/2025 23:15	3/1/2025 15:55	0.175	1.148
BK02	129	1877	1000	4A-2		2/28/2025 23:15	3/1/2025 15:55	0.129	1.877
BK03	58	1470	1000	4A-3		2/28/2025 23:15	3/1/2025 15:55	0.058	1.47
BK04	46	1757	1000	4A-4		2/28/2025 23:15	3/1/2025 15:55	0.046	1.757
BK05	140	1973	1000	4B-1		2/28/2025 23:15	3/1/2025 15:55	0.14	1.973
BK06	74	1795	1000	4B-2		2/28/2025 23:15	3/1/2025 15:55	0.074	1.795
BK07	156	1747	1000	4B-3		2/28/2025 23:15	3/1/2025 15:55	0.156	1.747
BK08	78	2138	1000	4B-4		2/28/2025 23:15	3/1/2025 15:55	0.078	2.138
BK09	97	1915	1000	4C-1		2/28/2025 23:15	3/1/2025 15:55	0.097	1.915
BK10	169	1578	1000	4C-2		2/28/2025 23:15	3/1/2025 15:55	0.169	1.578
BK11	133	1631	1000	4C-3		2/28/2025 23:15	3/1/2025 15:55	0.133	1.631
BK12	43	1367	1000	4C-4		2/28/2025 23:15	3/1/2025 15:55	0.043	1.367
BK13	91	954	1000	4D-1		2/28/2025 23:15	3/1/2025 15:55	0.091	0.954
BK14	30	885	1000	4D-2		2/28/2025 23:15	3/1/2025 15:55	0.03	0.885
BK15	32	854	1000	4D-3		2/28/2025 23:15	3/1/2025 15:55	0.032	0.854
BK16	33	889	1000	4D-4		2/28/2025 23:15	3/1/2025 15:55	0.033	0.889

GAS COUNTER G542 Unit: 4 MONTH: Mar-25 BETA BACKGROUND
Beta Background

1 Count Time: 100 min

	4A-1		4A-2		4A-3		4A-4		4B-1		4B-2		4B-3		4B-4		4C-1		4C-2		4C-3		4C-4		4D-1		4D-2		4D-3		4D-4	
DATE	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM	COUNTS	CPM
1	114.8	**1.15**	187.7	**1.88**	147	**1.47**	175.7	**1.76**	197.3	**1.97**	179.5	**1.80**	174.7	**1.75**	213.8	**2.14**	191.5	**1.92**	157.8	**1.58**	163.1	**1.63**	136.7	**1.37**	95.4	**0.95**	88.5	**0.89**	85.4	**0.85**	88.9	**0.89**
2																																
3	106	**1.06**	178	**1.78**	120	**1.20**	178	**1.78**	186	**1.86**	177	**1.77**	191	**1.91**	213	**2.13**	178	**1.78**	179	**1.79**	161	**1.61**	156	**1.56**	94	**0.94**	81	**0.81**	71	**0.71**	93	**0.93**
4	98	**0.98**	201	**2.01**	140	**1.40**	157	**1.57**	183	**1.83**	170	**1.70**	186	**1.86**	213	**2.13**	219	**2.19**	169	**1.69**	161	**1.61**	136	**1.36**	89	**0.89**	125	**1.25**	87	**0.87**	77	**0.77**
5	121	**1.21**	210	**2.10**	155	**1.55**	182	**1.82**	208	**2.08**	173	**1.73**	191	**1.91**	224	**2.24**	211	**2.11**	177	**1.77**	169	**1.69**	166	**1.66**	93	**0.93**	95	**0.95**	108	**1.08**	87	**0.87**
6	121	**1.21**	163	**1.63**	133	**1.33**	170	**1.70**	185	**1.85**	163	**1.63**	197	**1.97**	188	**1.88**	192	**1.92**	174	**1.74**	182	**1.82**	132	**1.32**	106	**1.06**	80	**0.80**	87	**0.87**	95	**0.95**
7	137	**1.37**	179	**1.79**	138	**1.38**	174	**1.74**	200	**2.00**	198	**1.98**	190	**1.90**	232	**2.32**	195	**1.95**	184	**1.84**	151	**1.51**	156	**1.56**	124	**1.24**	102	**1.02**	93	**0.93**	91	**0.91**
8																																
9																																
10	98	**0.98**	186	**1.86**	132	**1.32**	197	**1.97**	163	**1.63**	172	**1.72**	171	**1.71**	220	**2.20**	196	**1.96**	177	**1.77**	174	**1.74**	107	**1.07**	109	**1.09**	86	**0.86**	73	**0.73**	87	**0.87**
11	131	**1.31**	185	**1.85**	146	**1.46**	156	**1.56**	177	**1.77**	165	**1.65**	194	**1.94**	225	**2.25**	200	**2.00**	166	**1.66**	178	**1.78**	156	**1.56**	123	**1.23**	102	**1.02**	96	**0.96**	86	**0.86**
12	117	**1.17**	177	**1.77**	128	**1.28**	162	**1.62**	182	**1.82**	194	**1.94**	203	**2.03**	183	**1.83**	203	**2.03**	166	**1.66**	169	**1.69**	165	**1.65**	126	**1.26**	103	**1.03**	116	**1.16**	103	**1.03**
13	132	**1.32**	213	**2.13**	121	**1.21**	197	**1.97**	180	**1.80**	207	**2.07**	186	**1.86**	206	**2.06**	209	**2.09**	203	**2.03**	157	**1.57**	136	**1.36**	112	**1.12**	93	**0.93**	89	**0.89**	99	**0.99**
14	145	**1.45**	198	**1.98**	173	**1.73**	168	**1.68**	202	**2.02**	186	**1.86**	192	**1.92**	228	**2.28**	213	**2.13**	189	**1.89**	164	**1.64**	150	**1.50**	113	**1.13**	96	**0.96**	101	**1.01**	109	**1.09**
15																																
16																																
17	111	**1.11**	190	**1.90**	133	**1.33**	172	**1.72**	173	**1.73**	200	**2.00**	175	**1.75**	208	**2.08**	176	**1.76**	184	**1.84**	156	**1.56**	141	**1.41**	97	**0.97**	111	**1.11**	100	**1.00**	95	**0.95**
18	122	**1.22**	172	**1.72**	133	**1.33**	182	**1.82**	179	**1.79**	185	**1.85**	179	**1.79**	189	**1.89**	178	**1.78**	183	**1.83**	184	**1.84**	156	**1.56**	115	**1.15**	82	**0.82**	79	**0.79**	91	**0.91**
19	126	**1.26**	167	**1.67**	145	**1.45**	159	**1.59**	183	**1.83**	163	**1.63**	186	**1.86**	186	**1.86**	236	**2.36**	169	**1.69**	154	**1.54**	149	**1.49**	98	**0.98**	97	**0.97**	74	**0.74**	109	**1.09**
20	135	**1.35**	179	**1.79**	158	**1.58**	179	**1.79**	200	**2.00**	168	**1.68**	168	**1.68**	189	**1.89**	194	**1.94**	173	**1.73**	176	**1.76**	161	**1.61**	114	**1.14**	84	**0.84**	105	**1.05**	99	**0.99**
21	119	**1.19**	206	**2.06**	138	**1.38**	189	**1.89**	216	**2.16**	185	**1.85**	194	**1.94**	172	**1.72**	209	**2.09**	178	**1.78**	173	**1.73**	156	**1.56**	112	**1.12**	104	**1.04**	113	**1.13**	121	**1.21**
22	110	**1.10**	193	**1.93**	150	**1.50**	186	**1.86**	202	**2.02**	175	**1.75**	175	**1.75**	225	**2.25**	178	**1.78**	178	**1.78**	189	**1.89**	149	**1.49**	92	**0.92**	108	**1.08**	95	**0.95**	103	**1.03**
23																																
24	110	**1.10**	176	**1.76**	146	**1.46**	170	**1.70**	190	**1.90**	176	**1.76**	177	**1.77**	221	**2.21**	207	**2.07**	180	**1.80**	171	**1.71**	142	**1.42**	105	**1.05**	80	**0.80**	98	**0.98**	75	**0.75**
25	125	**1.25**	172	**1.72**	128	**1.28**	179	**1.79**	185	**1.85**	153	**1.53**	172	**1.72**	230	**2.30**	185	**1.85**	165	**1.65**	195	**1.95**	134	**1.34**	101	**1.01**	93	**0.93**	88	**0.88**	106	**1.06**
26	140	**1.40**	180	**1.80**	148	**1.48**	180	**1.80**	171	**1.71**	203	**2.03**	158	**1.58**	217	**2.17**	184	**1.84**	178	**1.78**	187	**1.87**	132	**1.32**	103	**1.03**	96	**0.96**	88	**0.88**	106	**1.06**
27	140	**1.40**	180	**1.80**	148	**1.48**	180	**1.80**	171	**1.71**	203	**2.03**	158	**1.58**	217	**2.17**	184	**1.84**	178	**1.78**	187	**1.87**	132	**1.32**	103	**1.03**	96	**0.96**	88	**0.88**	106	**1.06**
28	129	**1.29**	156	**1.56**	137	**1.37**	184	**1.84**	167	**1.67**	174	**1.74**	132	**1.32**	213	**2.13**	202	**2.02**	161	**1.61**	148	**1.48**	133	**1.33**	105	**1.05**	110	**1.10**	94	**0.94**	80	**0.80**
29																																
30																																
31																																
average	**122**	**1.22**	**184**	**1.84**	**141**	**1.41**	**176**	**1.76**	**186**	**1.86**	**180**	**1.80**	**180**	**1.80**	**210**	**2.10**	**197**	**1.97**	**176**	**1.76**	**170**	**1.70**	**145**	**1.45**	**106**	**1.06**	**96**	**0.96**	**92**	**0.92**	**96**	**0.96**
std dev	13	0.13	15	0.15	12	0.12	11	0.11	14	0.14	15	0.15	16	0.16	17	0.17	15	0.15	10	0.10	13	0.13	14	0.14	11	0.11	12	0.12	12	0.12	12	0.12
UCL	**162**	**1.62**	**229**	**2.29**	**178**	**1.78**	**210**	**2.10**	**228**	**2.28**	**226**	**2.26**	**228**	**2.28**	**262**	**2.62**	**244**	**2.44**	**206**	**2.06**	**210**	**2.10**	**187**	**1.87**	**138**	**1.38**	**131**	**1.31**	**129**	**1.29**	**130**	**1.30**
UWL	**149**	**1.49**	**214**	**2.14**	**166**	**1.66**	**199**	**1.99**	**214**	**2.14**	**211**	**2.11**	**212**	**2.12**	**244**	**2.44**	**228**	**2.28**	**196**	**1.96**	**197**	**1.97**	**173**	**1.73**	**127**	**1.27**	**119**	**1.19**	**116**	**1.16**	**119**	**1.19**
LWL	**96**	**0.96**	**154**	**1.54**	**116**	**1.16**	**153**	**1.53**	**158**	**1.58**	**150**	**1.50**	**147**	**1.47**	**175**	**1.75**	**166**	**1.66**	**156**	**1.56**	**144**	**1.44**	**116**	**1.16**	**85**	**0.85**	**73**	**0.73**	**68**	**0.68**	**73**	**0.73**
LCL	**82**	**0.82**	**139**	**1.39**	**103**	**1.03**	**142**	**1.42**	**144**	**1.44**	**135**	**1.35**	**131**	**1.31**	**158**	**1.58**	**151**	**1.51**	**146**	**1.46**	**130**	**1.30**	**102**	**1.02**	**74**	**0.74**	**61**	**0.61**	**56**	**0.56**	**61**	**0.61**

Data From Previous Month

average	**121**	**1.212**	**176**	**1.760**	**139**	**1.390**	**167**	**1.665**	**191**	**1.911**	**170**	**1.696**	**182**	**1.818**	**207**	**2.071**	**196**	**1.955**	**169**	**1.689**	**161**	**1.611**	**140**	**1.397**	**100**	**1.004**	**96**	**0.956**	**92**	**0.917**	**92**	**0.918**
std dev	**11**	**0.112**	**15**	**0.151**	**12**	**0.124**	**16**	**0.155**	**16**	**0.157**	**14**	**0.135**	**18**	**0.179**	**16**	**0.165**	**17**	**0.173**	**13**	**0.128**	**12**	**0.123**	**12**	**0.122**	**15**	**0.152**	**13**	**0.132**	**15**	**0.149**	**12**	**0.116**
UCL	**155**	**1.549**	**221**	**2.212**	**176**	**1.763**	**213**	**2.131**	**238**	**2.382**	**210**	**2.102**	**236**	**2.356**	**257**	**2.565**	**247**	**2.473**	**207**	**2.072**	**198**	**1.979**	**176**	**1.764**	**146**	**1.462**	**135**	**1.352**	**136**	**1.364**	**127**	**1.266**
UWL	**144**	**1.437**	**206**	**2.061**	**164**	**1.638**	**198**	**1.976**	**223**	**2.225**	**197**	**1.967**	**218**	**2.176**	**240**	**2.401**	**230**	**2.301**	**194**	**1.944**	**186**	**1.856**	**164**	**1.642**	**131**	**1.309**	**122**	**1.220**	**122**	**1.215**	**115**	**1.150**
LWL	**99**	**0.988**	**146**	**1.458**	**114**	**1.142**	**135**	**1.354**	**160**	**1.597**	**143**	**1.425**	**146**	**1.460**	**174**	**1.741**	**161**	**1.610**	**143**	**1.433**	**137**	**1.366**	**115**	**1.152**	**70**	**0.699**	**69**	**0.692**	**62**	**0.619**	**69**	**0.687**
LCL	**88**	**0.876**	**131**	**1.307**	**102**	**1.017**	**120**	**1.199**	**144**	**1.440**	**129**	**1.290**	**128**	**1.281**	**158**	**1.576**	**144**	**1.437**	**130**	**1.305**	**124**	**1.244**	**103**	**1.029**	**55**	**0.547**	**56**	**0.560**	**47**	**0.470**	**57**	**0.571**

GAS COUNTER G542 Unit: 4 MONTH: March-25
Beta Source Check
23F05880

BETA Activity: **7861.05** **dpm** Count Time: **5** **min**

	4A-1		4A-2		4A-3		4A-4		4B-1		4B-2		4B-3		4B-4		4C-1		4C-2		4C-3		4C-4		4D-1		4D-2		4D-3		4D-4	
DATE	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF	COUNTS	EFF
1																																
2																																
3	16118	**41.0%**	17790	**45.3%**	15980	**40.7%**	16945	**43.1%**	16156	**41.1%**	18079	**46.0%**	18024	**45.9%**	17471	**44.4%**	16792	**42.7%**	17356	**44.2%**	17050	**43.4%**	17348	**44.1%**	16425	**41.8%**	18115	**46.1%**	16412	**41.8%**	16868	**42.9%**
4	16239	**41.3%**	17927	**45.6%**	17361	**44.2%**	16541	**42.1%**	17511	**44.6%**	18213	**46.3%**	18026	**45.9%**	17211	**43.8%**	16899	**43.0%**	16864	**42.9%**	15979	**40.7%**	17652	**44.9%**	17523	**44.6%**	17117	**43.5%**	17851	**45.4%**	17828	**45.4%**
5	16276	**41.4%**	17371	**44.2%**	17489	**44.5%**	18321	**46.6%**	16849	**42.9%**	16500	**42.0%**	18316	**46.6%**	17902	**45.5%**	15853	**40.3%**	17447	**44.4%**	17851	**45.4%**	17761	**45.2%**	17239	**43.9%**	18213	**46.3%**	16151	**41.1%**	17462	**44.4%**
6	16009	**40.7%**	16597	**42.2%**	17519	**44.6%**	16390	**41.7%**	16125	**41.0%**	18384	**46.8%**	18504	**47.1%**	17834	**45.4%**	16382	**41.7%**	17125	**43.6%**	17446	**44.4%**	17691	**45.0%**	17934	**45.6%**	18211	**46.3%**	16255	**41.4%**	17391	**44.2%**
7	17441	**44.4%**	18153	**46.2%**	16185	**41.2%**	18539	**47.2%**	16458	**41.9%**	18387	**46.8%**	18133	**46.1%**	17672	**45.0%**	15432	**39.3%**	17180	**43.7%**	15745	**40.1%**	17559	**44.7%**	16114	**41.0%**	17910	**45.6%**	17738	**45.1%**	17791	**45.3%**
8																																
9																																
10	17457	**44.4%**	15856	**40.3%**	17593	**44.8%**	18328	**46.6%**	17939	**45.6%**	17768	**45.2%**	16777	**42.7%**	17109	**43.5%**	16324	**41.5%**	16913	**43.0%**	15674	**39.9%**	18048	**45.9%**	16022	**40.8%**	17123	**43.6%**	17474	**44.5%**	17930	**45.6%**
11	17418	**44.3%**	17351	**44.1%**	17418	**44.3%**	17703	**45.0%**	17798	**45.3%**	18058	**45.9%**	16378	**41.7%**	18144	**46.2%**	16514	**42.0%**	17194	**43.7%**	17270	**43.9%**	17576	**44.7%**	15983	**40.7%**	16094	**40.9%**	16610	**42.3%**	17317	**44.1%**
12	17221	**43.8%**	17910	**45.6%**	15701	**39.9%**	18433	**46.9%**	17378	**44.2%**	17802	**45.3%**	18569	**47.2%**	17624	**44.8%**	15763	**40.1%**	15674	**39.9%**	15988	**40.7%**	18067	**46.0%**	17265	**43.9%**	16310	**41.5%**	18178	**46.2%**	17895	**45.5%**
13	17647	**44.9%**	17579	**44.7%**	17378	**44.2%**	16308	**41.5%**	17264	**43.9%**	16469	**41.9%**	17845	**45.4%**	17037	**43.3%**	16794	**42.7%**	15765	**40.1%**	17508	**44.5%**	17926	**45.6%**	17635	**44.9%**	17927	**45.6%**	17976	**45.7%**	16244	**41.3%**
14	17668	**45.0%**	17673	**45.0%**	17310	**44.0%**	16501	**42.0%**	17887	**45.5%**	18417	**46.9%**	16491	**42.0%**	17906	**45.6%**	15366	**39.1%**	15748	**40.1%**	17538	**44.6%**	17551	**44.7%**	17681	**45.0%**	16693	**42.5%**	17913	**45.6%**	17489	**44.5%**
15																																
16																																
17	15928	**40.5%**	16544	**42.1%**	16148	**41.1%**	18223	**46.4%**	17593	**44.8%**	17765	**45.2%**	17816	**45.3%**	17784	**45.2%**	16603	**42.2%**	15660	**39.8%**	17653	**44.9%**	17290	**44.0%**	17347	**44.1%**	16319	**41.5%**	16042	**40.8%**	17081	**43.5%**
18	17253	**43.9%**	15736	**40.0%**	15718	**40.0%**	17789	**45.3%**	18027	**45.9%**	16419	**41.8%**	17259	**43.9%**	17366	**44.2%**	17171	**43.7%**	16951	**43.1%**	17666	**44.9%**	17581	**44.7%**	16202	**41.2%**	18323	**46.6%**	17676	**45.0%**	16041	**40.8%**
19	17687	**45.0%**	16418	**41.8%**	15980	**40.7%**	16550	**42.1%**	17490	**44.5%**	17963	**45.7%**	17669	**45.0%**	18212	**46.3%**	17118	**43.6%**	17009	**43.3%**	15612	**39.7%**	17743	**45.1%**	17293	**44.0%**	18267	**46.5%**	17762	**45.2%**	17748	**45.2%**
20	15825	**40.3%**	17499	**44.5%**	16102	**41.0%**	18057	**45.9%**	17678	**45.0%**	18453	**46.9%**	18020	**45.8%**	18131	**46.1%**	15169	**38.6%**	16220	**41.3%**	17386	**44.2%**	17157	**43.7%**	16946	**43.1%**	17974	**45.7%**	17730	**45.1%**	18083	**46.0%**
21	18017	**45.8%**	16081	**40.9%**	15782	**40.2%**	17128	**43.6%**	17452	**44.4%**	18182	**46.3%**	16546	**42.1%**	18023	**45.9%**	16730	**42.6%**	17471	**44.4%**	17343	**44.1%**	17359	**44.2%**	16019	**40.8%**	16366	**41.6%**	17898	**45.5%**	16023	**40.8%**
22	17686	**45.0%**	17210	**43.8%**	17486	**44.5%**	16262	**41.4%**	17578	**44.7%**	18481	**47.0%**	18466	**47.0%**	17732	**45.1%**	15242	**38.8%**	15312	**39.0%**	16821	**42.8%**	18304	**46.6%**	16994	**43.2%**	16208	**41.2%**	17975	**45.7%**	17628	**44.8%**
23																																
24	17286	**44.0%**	16283	**41.4%**	16541	**42.1%**	16524	**42.0%**	17612	**44.8%**	18275	**46.5%**	18590	**47.3%**	17385	**44.2%**	16756	**42.6%**	15608	**39.7%**	17358	**44.2%**	17663	**44.9%**	16318	**41.5%**	17885	**45.5%**	16123	**41.0%**	16377	**41.7%**
25	17398	**44.3%**	16411	**41.8%**	17660	**44.9%**	16526	**42.0%**	16142	**41.1%**	17952	**45.7%**	17889	**45.5%**	17744	**45.1%**	16193	**41.2%**	17131	**43.6%**	16045	**40.8%**	17943	**45.7%**	16899	**43.0%**	16415	**41.8%**	17790	**45.3%**	16708	**42.5%**
26	16018	**40.8%**	17322	**44.1%**	16268	**41.4%**	18014	**45.8%**	18037	**45.9%**	16685	**42.4%**	18237	**46.4%**	17836	**45.4%**	16452	**41.9%**	15391	**39.2%**	17322	**44.1%**	17369	**44.2%**	16980	**43.2%**	16683	**42.4%**	17702	**45.0%**	18005	**45.8%**
27	17857	**45.4%**	17538	**44.6%**	17595	**44.8%**	18027	**45.9%**	17547	**44.6%**	16240	**41.3%**	18016	**45.8%**	17698	**45.0%**	16255	**41.4%**	15523	**39.5%**	16392	**41.7%**	16347	**41.6%**	16568	**42.2%**	17792	**45.3%**	17857	**45.4%**	16157	**41.1%**
28	17081	**43.5%**	17539	**44.6%**	17237	**43.9%**	16055	**40.8%**	16163	**41.1%**	17737	**45.1%**	18395	**46.8%**	16781	**42.7%**	16413	**41.8%**	16082	**40.9%**	17858	**45.4%**	17285	**44.0%**	17273	**43.9%**	16328	**41.5%**	17629	**44.9%**	17543	**44.6%**
29																																
30																																
31																																
average	**17025**	**43.3%**	**17085**	**43.5%**	**16783**	**42.7%**	**17293.5**	**44.0%**	**17270.7**	**43.9%**	**17725.2**	**45.1%**	**17807.9**	**45.3%**	**17648**	**44.9%**	**16296**	**41.5%**	**16458**	**41.9%**	**16929**	**43.1%**	**17582**	**44.7%**	**16889**	**43.0%**	**17251**	**43.9%**	**17369**	**44.2%**	**17219**	**43.8%**
std dev	737	1.87%	736	0.02	753	0.02	876	0.02	666	0.02	762	0.02	705	0.02	385	0.01	607	1.54%	780	0.02	781	0.02	408	0.01	614	1.56%	839	0.02	736	0.019	698	0.018
UCL	**19236**	**48.9%**	**19293**	**49.1%**	**19042**	**48.4%**	**19922**	**50.7%**	**19268**	**49.0%**	**20013**	**50.9%**	**19924**	**50.7%**	**18803**	**47.8%**	**18118**	**46.1%**	**18799**	**47.8%**	**19270**	**49.0%**	**18807**	**47.8%**	**18729**	**47.7%**	**19767**	**50.3%**	**19578**	**49.8%**	**19315**	**49.1%**
UWL	**18499**	**47.1%**	**18557**	**47.2%**	**18289**	**46.5%**	**19046**	**48.5%**	**18602**	**47.3%**	**19250**	**49.0%**	**19218**	**48.9%**	**18418**	**46.9%**	**17510**	**44.5%**	**18019**	**45.8%**	**18490**	**47.0%**	**18399**	**46.8%**	**18116**	**46.1%**	**18928**	**48.2%**	**18842**	**47.9%**	**18616**	**47.4%**
LWL	**15552**	**39.6%**	**15613**	**39.7%**	**15277**	**38.9%**	**15541**	**39.5%**	**15939**	**40.6%**	**16200**	**41.2%**	**16397**	**41.7%**	**16878**	**42.9%**	**15082**	**38.4%**	**14898**	**37.9%**	**15368**	**39.1%**	**16765**	**42.7%**	**15661**	**39.8%**	**15574**	**39.6%**	**15896**	**40.4%**	**15823**	**40.3%**
LCL	**14815**	**37.7%**	**14877**	**37.8%**	**14524**	**37.0%**	**14665**	**37.3%**	**15273**	**38.9%**	**15438**	**39.3%**	**15692**	**39.9%**	**16493**	**42.0%**	**14475**	**36.8%**	**14118**	**35.9%**	**14587**	**37.1%**	**16357**	**41.6%**	**15048**	**38.3%**	**14735**	**37.5%**	**15159**	**38.6%**	**15124**	**38.5%**

Data From Previous Month

average	**16832**	**42.74%**	**17313**	**43.96%**	**17196**	**43.67%**	**17610**	**44.72%**	**17356**	**44.08%**	**17633**	**44.78%**	**17473**	**44.37%**	**17523**	**44.50%**	**16578**	**42.10%**	**16676**	**42.35%**	**16847**	**42.78%**	**17726**	**45.01%**	**17166**	**43.59%**	**17425**	**44.25%**	**17333**	**44.02%**	**17428**	**44.26%**
std dev	**804**	**2.04%**	**552**	**1.40%**	**490**	**1.24%**	**773**	**1.96%**	**667**	**1.69%**	**831**	**2.11%**	**860**	**2.18%**	**685**	**1.74%**	**604**	**1.53%**	**826**	**2.10%**	**792**	**2.01%**	**668**	**1.70%**	**670**	**1.70%**	**693**	**1.76%**	**787**	**2.00%**	**779**	**1.98%**
UCL	**19244**	**48.87%**	**18967**	**48.17%**	**18666**	**47.40%**	**19928**	**50.61%**	**19356**	**49.15%**	**20126**	**51.11%**	**20052**	**50.92%**	**19578**	**49.72%**	**18389**	**46.70%**	**19152**	**48.64%**	**19222**	**48.81%**	**19729**	**50.10%**	**19177**	**48.70%**	**19504**	**49.53%**	**19694**	**50.01%**	**19765**	**50.19%**
UWL	**18440**	**46.83%**	**18416**	**46.77%**	**18176**	**46.16%**	**19155**	**48.64%**	**18690**	**47.46%**	**19295**	**49.00%**	**19192**	**48.74%**	**18893**	**47.98%**	**17785**	**45.17%**	**18327**	**46.54%**	**18431**	**46.80%**	**19061**	**48.41%**	**18507**	**47.00%**	**18811**	**47.77%**	**18907**	**48.01%**	**18986**	**48.21%**
LWL	**15225**	**38.66%**	**16210**	**41.16%**	**16215**	**41.18%**	**16065**	**40.80%**	**16023**	**40.69%**	**15971**	**40.56%**	**15754**	**40.01%**	**16153**	**41.02%**	**15370**	**39.03%**	**15025**	**38.15%**	**15264**	**38.76%**	**16390**	**41.62%**	**15826**	**40.19%**	**16039**	**40.73%**	**15759**	**40.02%**	**15870**	**40.30%**
LCL	**14421**	**36.62%**	**15658**	**39.76%**	**15725**	**39.93%**	**15293**	**38.83%**	**15357**	**39.00%**	**15140**	**38.45%**	**14894**	**37.82%**	**15468**	**39.28%**	**14766**	**37.50%**	**14199**	**36.06%**	**14473**	**36.75%**	**15723**	**39.93%**	**15155**	**38.49%**	**15346**	**38.97%**	**14971**	**38.02%**	**15092**	**38.32%**

G542 Unit 3
Calibration 02/03/25

	High Voltage	Changed?	Chi Sq Passed?	Notes
A Drawer	1780	Y	Y	
B Drawer	1780	Y	Y	
C Drawer	1760	Y	Y	
D Drawer	1780	Y	Y	

Comments:

After initial High Voltage(HV) run, windows changed and HV rerun. HV and Chi Squared data shown is from after window change.

Collected by: _____ Date: 2/10/25

Approved by: _____ Date: 2/10/25

OOS= Detector taken Out of Service

Detector Names Unit 3:

Numerical:	Instrument:	PACE:
1	1A	3A-1
2	1B	3A-2
3	1C	3A-3
4	1D	3A-4
5	2A	3B-1
6	2B	3B-2
7	2C	3B-3
8	2D	3B-4
9	3A	3C-1
10	3B	3C-2
11	3C	3C-3
12	3D	3C-4
13	4A	3D-1
14	4B	3D-2
15	4C	3D-3
16	4D	3D-4

Standards Used: 23F04831 23F04839
23F04841 23F04832
24B19729 24B19731
24B19730 24B19732

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Sr-90
124007
ESC51613
22J11029

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	01-Jul-24
PREP:	13-Sep-22

Ao =	940.91	nCi				
N =	0.02					
T(1/2) =	28.60	years				
T =	1.85	years				
dilution =	1000.00					
A =	899.65	nCi	SR90/Y90			
A =	1997.22	dpm/ml	3994.4459	399.4446		
A =	899.65	pCi/ml	1799.3			
A =	899.65	+/-	16.207189	pCi/ml	3994.445911	
						11983.33773

Uncertainty	0.0173
Weight	0.05%
Volume (1000 ml)	0.50%

CSU 1.80%

DECAY CALCUALTION

Th230 Source
124007
ESC51614
22I13361

ACTIVITY FORMULA A = Ao(e^^-NT)

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION 25-Aug-22
DATE OF CALIBRATION 01-Feb-25

Ao	=	1011.73	nCi	
N	=	0.00		
T(1/2)	=	77000.00	years	28105000
T	=	2.44	years	
dilution	=	1000.00		
A	=	1011.71	nCi	
A	=	2246.00	dpm/ml	22459.977
A	**=**	1011.71	pCi/ml	

Uncertainty	3.16%
Weight	0.05%
Volume	0.03%
CSU	3.16%

					pCi/l
Activity	**1011.7**	**+/-**	**32.0**	**pCi/ml**	1011711

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Sr-90
124007
ESC51613
22J11029

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	01-Jul-24
PREP:	13-Sep-22

Ao =	940.91	nCi				
N =	0.02					
T(1/2) =	28.60	years				
T =	1.85	years				
dilution =	1000.00					
A =	899.65	nCi	SR90/Y90			
A =	1997.22	dpm/ml	3994.4459	399.4446		
A =	899.65	pCi/ml	1799.3			
A =	899.65	+/-	16.207189	pCi/ml	3994.445911	
						11983.33773

Uncertainty	0.0173
Weight	0.05%
Volume (1000 ml)	0.50%

CSU 1.80%

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer A

2/3/2025

3A-1=	Det1=	1A				3A-2=	Det2=	1B				3A-3=	Det3=	1C				3A-4=	Det4=	1D			
	Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
	1500	873	872	1			1500	2043	2043	0			1500	1037	1037	0			1500	1115	1115	0	
	1520	1038	1038	0			1520	2258	2257	1			1520	1293	1293	0			1520	1318	1318	0	
	1540	1340	1340	0			1540	2588	2587	1			1540	1548	1548	0			1540	1501	1501	0	
	1560	1559	1558	1			1560	2798	2797	1			1560	1776	1775	1			1560	1818	1816	2	
	1580	1788	1788	0			1580	2992	2992	0			1580	2099	2098	1			1580	2047	2047	0	
	1600	2067	2066	1			1600	3165	3165	0			1600	2261	2261	0			1600	2160	2160	0	
	1620	2282	2281	1			1620	3233	3231	2			1620	2610	2608	2			1620	2418	2418	0	
	1640	2610	2608	2			1640	3232	3231	1			1640	2768	2767	1			1640	2656	2655	1	
	1660	2812	2811	1			1660	3342	3341	1			1660	2953	2953	0			1660	2794	2794	0	
	1680	3010	3009	1			1680	3564	3563	1			1680	3112	3112	0			1680	2989	2988	1	
	1700	3244	3244	0			1700	3312	3312	0			1700	3235	3234	1			1700	3037	3036	1	
	1720	3265	3264	1			1720	3451	3448	3			1720	3367	3367	0			1720	3135	3133	2	
	1740	3348	3346	2			1740	3533	3531	2			1740	3502	3498	4			1740	3215	3211	4	
	1760	3369	3369	0	0.00%		1760	3514	3501	13	0.37%		1760	3581	3579	2	0.06%		1760	3102	3100	2	0.06%
	1780	3492	3491	1	0.03%		1780	3500	3482	18	0.52%		1780	3447	3445	2	0.06%		1780	3294	3293	1	0.03%
	1800	3513	3507	6	0.17%		1800	3547	3488	59	1.69%		1800	3579	3560	19	0.53%		1800	3314	3313	1	0.03%
	1820	3427	3417	10			1820	3528	3439	89			1820	3601	3570	31			1820	3340	3339	1	
	1840	3469	3459	10			1840	3564	3479	85			1840	3505	3480	25			1840	3268	3268	0	
	1860	3553	3546	7			1860	3561	3487	74			1860	3498	3478	20			1860	3295	3291	4	
	1880	3583	3576	7			1880	3627	3533	94			1880	3614	3595	19			1880	3368	3368	0	
	1900	3452	3442	10			1900	3590	3499	91			1900	3566	3544	22			1900	3260	3254	6	
	1920	3479	3469	10			1920	3558	3476	82			1920	3483	3462	21			1920	3169	3167	2	
	1940	3493	3487	6			1940	3509	3435	74			1940	3694	3671	23			1940	3368	3366	2	
	1960	3584	3576	8			1960	3465	3394	71			1960	3583	3563	20			1960	3341	3338	3	
	1980	3471	3458	13			1980	3477	3394	83			1980	3561	3543	18			1980	3277	3274	3	
	2000	3584	3575	9			2000	3497	3425	72			2000	3604	3575	29			2000	3307	3304	3	

	1740	7.80%	263				1740	5.09%	176				1740	9.46%	326				1740	8.71%	277		
Slope Calc:	1760	4.50%	153				1760	0.26%	9				1760	5.79%	203				1760	6.37%	206		
	1780	3.29%	113				1780	1.49%	52				1780	0.51%	18				1780	1.75%	57		
	1800	5.11%	177				1800	0.40%	14				1800	2.87%	101				1800	5.85%	191		

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer B

2/3/2025

3B-1=	Det5=	2A				3B-2=	Det6=	2B				3B-3=	Det7=	2C				3B-4=	Det8=	2D			
	Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
	1500	1694	1693	1			1500	1556	1556	0			1500	1880	1880	0			1500	1353	1353	0	
	1520	1907	1907	0			1520	1748	1748	0			1520	2172	2172	0			1520	1608	1608	0	
	1540	2148	2147	1			1540	2121	2121	0			1540	2501	2501	0			1540	1823	1821	2	
	1560	2514	2513	1			1560	2269	2269	0			1560	2740	2739	1			1560	2099	2098	1	
	1580	2720	2720	0			1580	2616	2615	1			1580	2867	2867	0			1580	2441	2441	0	
	1600	2985	2984	1			1600	2751	2751	0			1600	3012	3012	0			1600	2473	2472	1	
	1620	3162	3161	1			1620	3019	3019	0			1620	3238	3236	2			1620	2689	2688	1	
	1640	3251	3249	2			1640	2966	2965	1			1640	3322	3321	1			1640	2933	2932	1	
	1660	3399	3398	1			1660	3061	3061	0			1660	3405	3404	1			1660	2993	2992	1	
	1680	3480	3480	0			1680	3257	3255	2			1680	3424	3422	2			1680	3141	3141	0	
	1700	3507	3505	2			1700	3299	3298	1			1700	3526	3526	0			1700	3103	3103	0	
	1720	3721	3719	2			1720	3285	3284	1			1720	3508	3507	1			1720	3142	3141	1	
	1740	3637	3636	1			1740	3386	3385	1			1740	3557	3552	5			1740	3174	3172	2	
	1760	3719	3704	15	0.42%		1760	3425	3424	1	0.03%		1760	3530	3525	5	0.14%		1760	3243	3241	2	0.06%
	1780	3643	3613	30	0.83%		1780	3475	3472	3	0.09%		1780	3598	3583	15	0.42%		1780	3348	3339	9	0.27%
	1800	3672	3613	59			1800	3416	3397	19			1800	3685	3635	50			1800	3206	3187	19	
	1820	3697	3619	78			1820	3460	3439	21			1820	3753	3697	56			1820	3385	3365	20	
	1840	3801	3719	82			1840	3367	3357	10			1840	3606	3552	54			1840	3282	3253	29	
	1860	3752	3686	66			1860	3472	3454	18			1860	3744	3697	47			1860	3288	3255	33	
	1880	3804	3701	103			1880	3548	3532	16			1880	3722	3669	52			1880	3238	3222	16	
	1900	3737	3666	71			1900	3488	3466	22			1900	3705	3651	54			1900	3263	3239	24	
	1920	3849	3766	83			1920	3436	3420	16			1920	3691	3646	45			1920	3252	3228	24	
	1940	3700	3622	78			1940	3553	3540	13			1940	3710	3655	55			1940	3277	3248	29	
	1960	3805	3731	74			1960	3368	3353	15			1960	3708	3656	52			1960	3406	3386	20	
	1980	3821	3740	81			1980	3495	3471	24			1980	3724	3675	49			1980	3287	3260	27	
	2000	3798	3716	82			2000	3415	3397	18			2000	3757	3696	61			2000	3213	3193	20	
Slope Calc:	1760	2.27%	83				1760	4.56%	155				1760	5.30%	190				1760	6.91%	224		
	1780	0.49%	18				1780	0.82%	28				1780	0.00%	0				1780	2.49%	81		
	1800	2.41%	88				1800	0.88%	30				1800	4.76%	172				1800	0.43%	14		
	1820	1.45%	53				1820	1.74%	60				1820	2.36%	86				1820	3.58%	117		

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer C

2/3/2025

3C-1= Det9= 3A

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1721	1720	1	
1520	2063	2063	0	
1540	2349	2349	0	
1560	2662	2661	1	
1580	2835	2835	0	
1600	3055	3054	1	
1620	3243	3243	0	
1640	3320	3319	1	
1660	3529	3529	0	
1680	3460	3459	1	
1700	3586	3584	2	
1720	3712	3708	4	
1740	3677	3677	0	
1760	3616	3609	7	0.19%
1780	3809	3788	21	0.55%
1800	3798	3758	40	1.06%
1820	3814	3750	64	
1840	3632	3571	61	
1860	3859	3796	63	
1880	3712	3669	43	
1900	3596	3552	44	
1920	3707	3663	44	
1940	3688	3638	50	
1960	3771	3718	53	
1980	3766	3721	45	
2000	3670	3633	37	1.02%

Slope Calc:

1740	4.49%	166	
1760	3.71%	137	
1780	3.21%	119	
1800	1.62%	60	
1820	6.38%	236	
1840	2.58%	95	

3C-2= Det10= 3B

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1566	1565	1	
1520	1866	1865	1	
1540	2101	2101	0	
1560	2425	2425	0	
1580	2651	2649	2	
1600	2709	2707	2	
1620	2958	2958	0	
1640	3114	3112	2	
1660	3216	3216	0	
1680	3251	3251	0	
1700	3243	3242	1	
1720	3433	3432	1	
1740	3481	3480	1	
1760	3317	3310	7	0.21%
1780	3339	3318	21	0.63%
1800	3498	3448	50	1.45%
1820	3490	3431	59	1.72%
1840	3488	3435	53	
1860	3572	3503	69	
1880	3485	3412	73	
1900	3488	3444	44	
1920	3413	3352	61	
1940	3393	3339	54	
1960	3501	3443	58	
1980	3392	3336	56	
2000	3471	3418	53	

1740	5.59%	189	
1760	0.09%	3	
1780	0.67%	23	
1800	2.99%	102	
1820	3.68%	126	
1840	2.80%	96	

3C-3= Det11= 3C

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1943	1942	1	
1520	2322	2322	0	
1540	2596	2596	0	
1560	2881	2879	2	
1580	3123	3121	2	
1600	3154	3153	1	
1620	3375	3375	0	
1640	3337	3334	3	
1660	3515	3514	1	
1680	3571	3570	1	
1700	3559	3558	1	
1720	3495	3493	2	
1740	3624	3621	3	
1760	3664	3649	15	0.41%
1780	3633	3606	27	0.75%
1800	3769	3706	63	1.70%
1820	3773	3701	72	1.95%
1840	3633	3551	82	
1860	3673	3599	74	
1880	3615	3534	81	
1900	3596	3527	69	
1920	3633	3567	66	
1940	3665	3582	83	
1960	3748	3678	70	
1980	3680	3597	83	
2000	3753	3665	88	

1740	3.95%	143	
1760	1.60%	58	
1780	0.61%	22	
1800	3.18%	115	
1820	2.19%	79	
1840	3.86%	139	

3C-4= Det12= 3D

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1405	1405	0	
1520	1737	1737	0	
1540	2027	2027	0	
1560	2352	2350	2	
1580	2489	2485	4	
1600	2667	2667	0	
1620	2896	2894	2	
1640	3066	3064	2	
1660	3148	3146	2	
1680	3135	3134	1	
1700	3289	3288	1	
1720	3226	3224	2	
1740	3228	3224	4	
1760	3281	3273	8	0.24%
1780	3292	3274	18	0.55%
1800	3351	3303	48	1.45%
1820	3246	3176	70	2.20%
1840	3420	3340	80	
1860	3445	3362	83	
1880	3342	3268	74	
1900	3337	3256	81	
1920	3366	3302	64	
1940	3282	3205	77	
1960	3308	3249	59	
1980	3376	3288	88	
2000	3446	3376	70	

1740	3.44%	112	
1760	3.56%	116	
1780	4.21%	138	
1800	0.15%	5	
1820	0.55%	18	
1840	0.03%	1	

High Voltage Plateau and Slope Calculation G542 Unit 3 Drawer D

2/3/2025

3D-1= Det13= 4A

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1473	1473	0	
1520	1740	1740	0	
1540	2173	2172	1	
1560	2323	2323	0	
1580	2748	2747	1	
1600	2856	2855	1	
1620	2997	2997	0	
1640	3197	3197	0	
1660	3447	3446	1	
1680	3605	3605	0	
1700	3502	3502	0	
1720	3604	3601	3	
1740	3608	3607	1	
1760	3727	3725	2	0.05%
1780	3697	3690	7	0.19%
1800	3759	3737	22	0.59%
1820	3677	3657	20	
1840	3605	3580	25	
1860	3765	3741	24	
1880	3790	3765	25	
1900	3760	3740	20	
1920	3750	3721	29	
1940	3756	3727	29	
1960	3772	3755	17	
1980	3845	3832	13	
2000	3782	3752	30	

1740	6.4%	235
1760	1.5%	56
1780	0.7%	27
1800	0.4%	16
1820	2.0%	75

3D-2= Det14= 4B

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1503	1503	0	
1520	1876	1876	0	
1540	2016	2015	1	
1560	2215	2215	0	
1580	2559	2559	0	
1600	2711	2709	2	
1620	2877	2875	2	
1640	3042	3042	0	
1660	3188	3188	0	
1680	3233	3232	1	
1700	3344	3344	0	
1720	3269	3268	1	
1740	3427	3425	2	
1760	3350	3344	6	0.18%
1780	3469	3456	13	0.38%
1800	3461	3421	40	1.17%
1820	3502	3456	46	
1840	3440	3395	45	
1860	3436	3378	58	
1880	3448	3396	52	
1900	3538	3490	48	
1920	3422	3384	38	
1940	3530	3479	51	
1960	3445	3389	56	
1980	3432	3375	57	
2000	3502	3452	50	

1740	2.3%	77
1760	5.5%	188
1780	0.9%	30
1800	1.0%	34
1820	1.8%	60

3D-3= Det15= 4C

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1452	1452	0	
1520	1673	1672	1	
1540	1902	1902	0	
1560	2293	2292	1	
1580	2446	2445	1	
1600	2606	2606	0	
1620	2848	2848	0	
1640	3084	3083	1	
1660	3206	3204	2	
1680	3387	3387	0	
1700	3325	3324	1	
1720	3304	3303	1	
1740	3509	3509	0	
1760	3536	3534	2	0.06%
1780	3518	3510	8	0.23%
1800	3509	3483	26	0.75%
1820	3507	3481	26	
1840	3552	3528	24	
1860	3718	3692	26	
1880	3681	3650	31	
1900	3554	3525	29	
1920	3527	3497	30	
1940	3512	3488	24	
1960	3591	3568	23	
1980	3581	3554	27	
2000	3614	3586	28	

1740	4.6%	159
1760	5.1%	178
1780	0.5%	19
1800	4.4%	158
1820	3.9%	140

3D-4= Det16= 4D

Voltage	Gross ROI Counts	Beta ROI Counts	Apha ROI Counts	
1500	1309	1309	0	
1520	1630	1629	1	
1540	1832	1829	3	
1560	2042	2042	0	
1580	2471	2469	2	
1600	2558	2558	0	
1620	2679	2677	2	
1640	2907	2906	1	
1660	2965	2964	1	
1680	3149	3146	3	
1700	3070	3069	1	
1720	3199	3198	1	
1740	3258	3256	2	
1760	3284	3281	3	0.09%
1780	3266	3256	10	0.31%
1800	3256	3222	34	1.06%
1820	3320	3273	47	
1840	3365	3320	45	
1860	3443	3381	62	
1880	3350	3299	51	
1900	3318	3269	49	
1920	3305	3257	48	
1940	3379	3330	49	
1960	3316	3266	50	
1980	3366	3318	48	
2000	3348	3305	43	

1740	4.7%	153
1760	2.3%	75
1780	1.9%	64
1800	3.0%	100
1820	1.3%	43

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 22:31
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	873	872	1
1520	1038	1038	0
1540	1340	1340	0
1560	1559	1558	1
1580	1788	1788	0
1600	2067	2066	1
1620	2282	2281	1
1640	2610	2608	2
1660	2812	2811	1
1680	3010	3009	1
1700	3244	3244	0
1720	3265	3264	1
1740	3348	3346	2
1760	3369	3369	0
1780	3492	3491	1
1800	3513	3507	6
1820	3427	3417	10
1840	3469	3459	10
1860	3553	3546	7
1880	3583	3576	7
1900	3452	3442	10
1920	3479	3469	10
1940	3493	3487	6
1960	3584	3576	8
1980	3471	3458	13
2000	3584	3575	9

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 17:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2043	2043	0
1520	2258	2257	1
1540	2588	2587	1
1560	2798	2797	1
1580	2992	2992	0
1600	3165	3165	0
1620	3233	3231	2
1640	3232	3231	1
1660	3342	3341	1
1680	3564	3563	1
1700	3312	3312	0
1720	3451	3448	3
1740	3533	3531	2
1760	3514	3501	13
1780	3500	3482	18
1800	3547	3488	59
1820	3528	3439	89
1840	3564	3479	85
1860	3561	3487	74
1880	3627	3533	94
1900	3590	3499	91
1920	3558	3476	82
1940	3509	3435	74
1960	3465	3394	71
1980	3477	3394	83
2000	3497	3425	72

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 17:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1037	1037	0
1520	1293	1293	0
1540	1548	1548	0
1560	1776	1775	1
1580	2099	2098	1
1600	2261	2261	0
1620	2610	2608	2
1640	2768	2767	1
1660	2953	2953	0
1680	3112	3112	0
1700	3235	3234	1
1720	3367	3367	0
1740	3502	3498	4
1760	3581	3579	2
1780	3447	3445	2
1800	3579	3560	19
1820	3601	3570	31
1840	3505	3480	25
1860	3498	3478	20
1880	3614	3595	19
1900	3566	3544	22
1920	3483	3462	21
1940	3694	3671	23
1960	3583	3563	20
1980	3561	3543	18
2000	3604	3575	29

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 17:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1115	1115	0
1520	1318	1318	0
1540	1501	1501	0
1560	1818	1816	2
1580	2047	2047	0
1600	2160	2160	0
1620	2418	2418	0
1640	2656	2655	1
1660	2794	2794	0
1680	2989	2988	1
1700	3037	3036	1
1720	3135	3133	2
1740	3215	3211	4
1760	3102	3100	2
1780	3294	3293	1
1800	3314	3313	1
1820	3340	3339	1
1840	3268	3268	0
1860	3295	3291	4
1880	3368	3368	0
1900	3260	3254	6
1920	3169	3167	2
1940	3368	3366	2
1960	3341	3338	3
1980	3277	3274	3
2000	3307	3304	3

Special Notes:

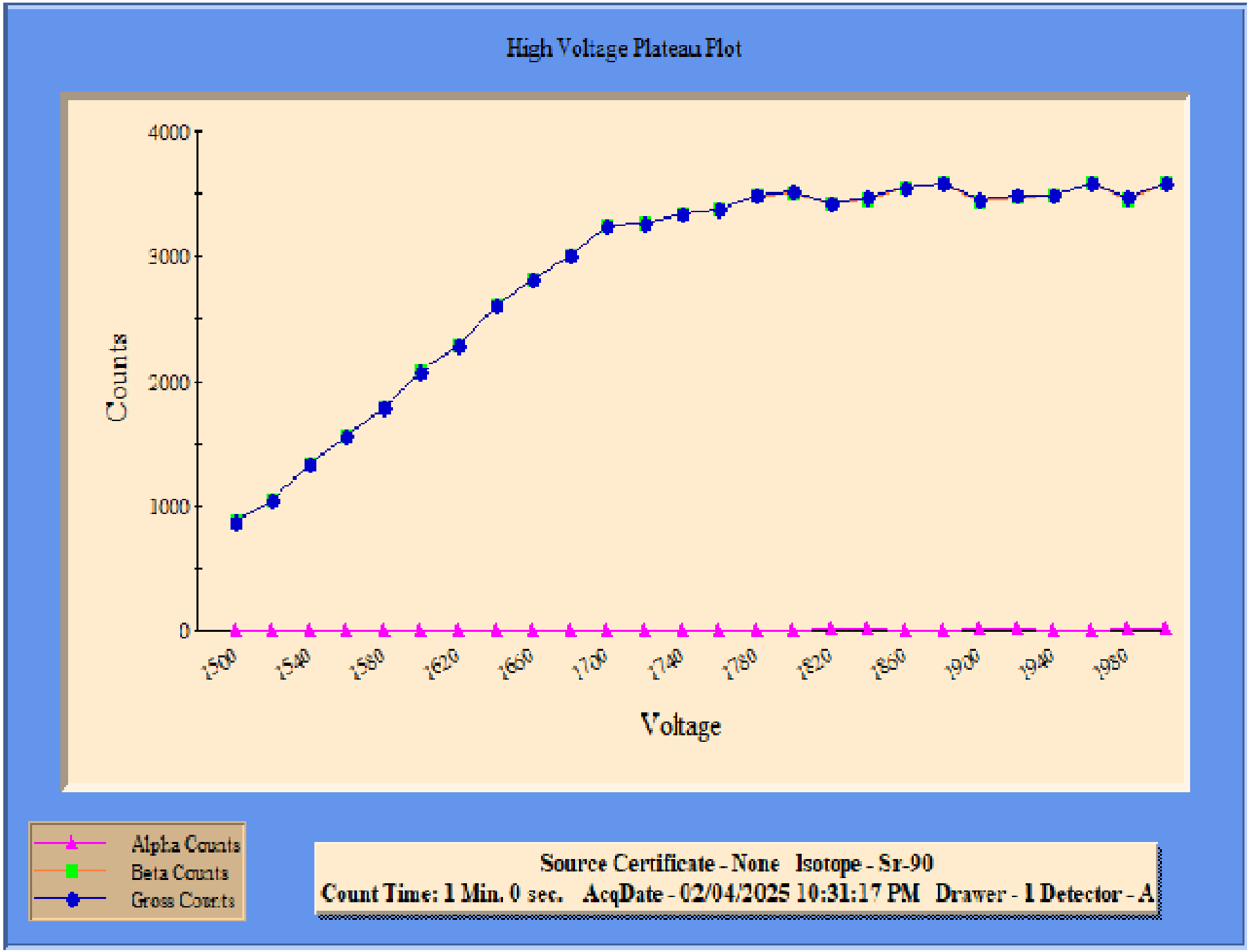
Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

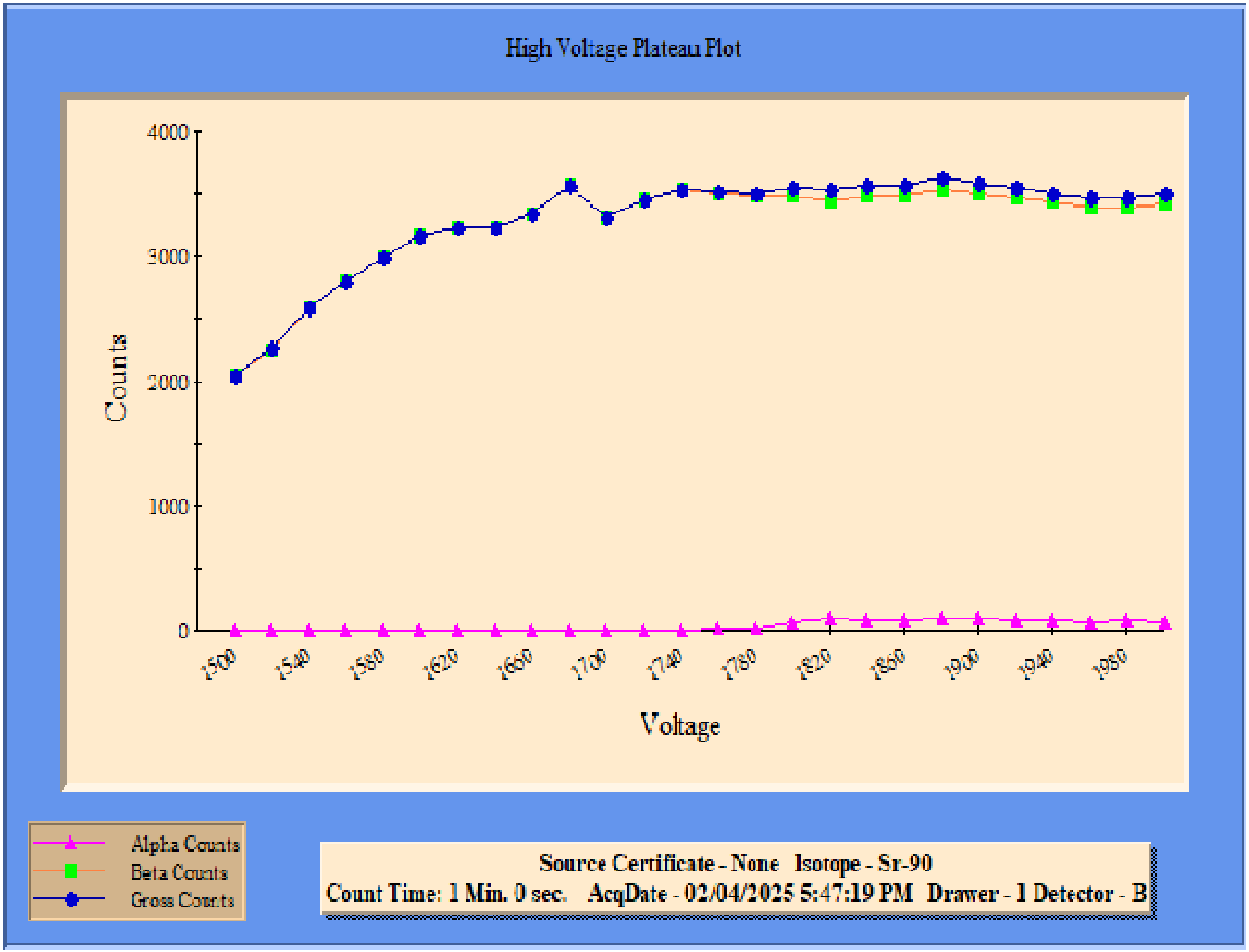
Collected By: _____ **Date:** _____

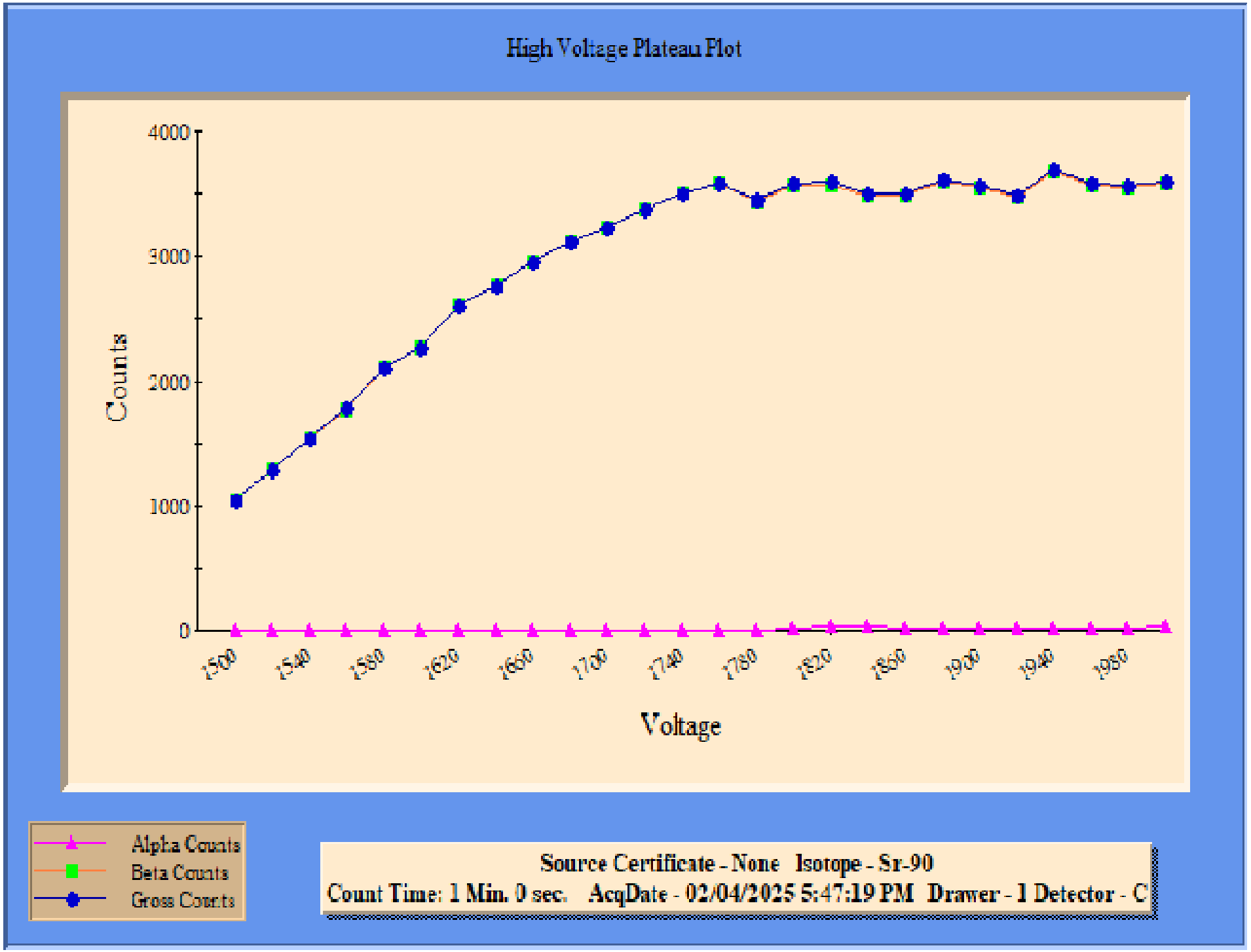
Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

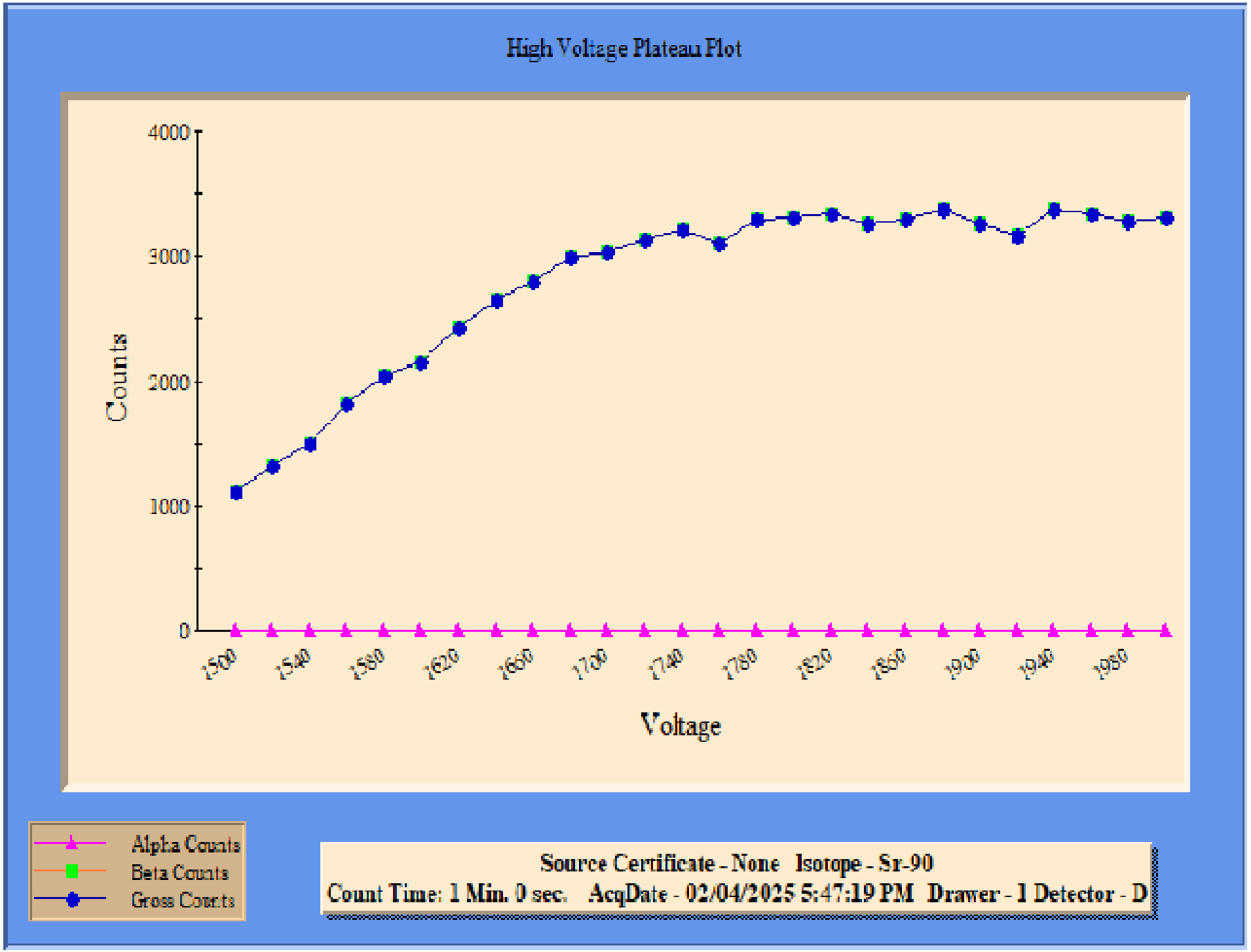
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 10:31:17 PM Drawer - 1 Detector - A


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 5:47:19 PM Drawer - 1 Detector - B


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 5:47:19 PM Drawer - 1 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 5:47:19 PM Drawer - 1 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1694	1693	1
1520	1907	1907	0
1540	2148	2147	1
1560	2514	2513	1
1580	2720	2720	0
1600	2985	2984	1
1620	3162	3161	1
1640	3251	3249	2
1660	3399	3398	1
1680	3480	3480	0
1700	3507	3505	2
1720	3721	3719	2
1740	3637	3636	1
1760	3719	3704	15
1780	3643	3613	30
1800	3672	3613	59
1820	3697	3619	78
1840	3801	3719	82
1860	3752	3686	66
1880	3804	3701	103
1900	3737	3666	71
1920	3849	3766	83
1940	3700	3622	78
1960	3805	3731	74
1980	3821	3740	81
2000	3798	3716	82

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1556	1556	0
1520	1748	1748	0
1540	2121	2121	0
1560	2269	2269	0
1580	2616	2615	1
1600	2751	2751	0
1620	3019	3019	0
1640	2966	2965	1
1660	3061	3061	0
1680	3257	3255	2
1700	3299	3298	1
1720	3285	3284	1
1740	3386	3385	1
1760	3425	3424	1
1780	3475	3472	3
1800	3416	3397	19
1820	3460	3439	21
1840	3367	3357	10
1860	3472	3454	18
1880	3548	3532	16
1900	3488	3466	22
1920	3436	3420	16
1940	3553	3540	13
1960	3368	3353	15
1980	3495	3471	24
2000	3415	3397	18

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1880	1880	0
1520	2172	2172	0
1540	2501	2501	0
1560	2740	2739	1
1580	2867	2867	0
1600	3012	3012	0
1620	3238	3236	2
1640	3322	3321	1
1660	3405	3404	1
1680	3424	3422	2
1700	3526	3526	0
1720	3508	3507	1
1740	3557	3552	5
1760	3530	3525	5
1780	3598	3583	15
1800	3685	3635	50
1820	3753	3697	56
1840	3606	3552	54
1860	3744	3697	47
1880	3722	3669	52
1900	3705	3651	54
1920	3691	3646	45
1940	3710	3655	55
1960	3708	3656	52
1980	3724	3675	49
2000	3757	3696	61

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:08
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1353	1353	0
1520	1608	1608	0
1540	1823	1821	2
1560	2099	2098	1
1580	2441	2441	0
1600	2473	2472	1
1620	2689	2688	1
1640	2933	2932	1
1660	2993	2992	1
1680	3141	3141	0
1700	3103	3103	0
1720	3142	3141	1
1740	3174	3172	2
1760	3243	3241	2
1780	3348	3339	9
1800	3206	3187	19
1820	3385	3365	20
1840	3282	3253	29
1860	3288	3255	33
1880	3238	3222	16
1900	3263	3239	24
1920	3252	3228	24
1940	3277	3248	29
1960	3406	3386	20
1980	3287	3260	27
2000	3213	3193	20

Special Notes:

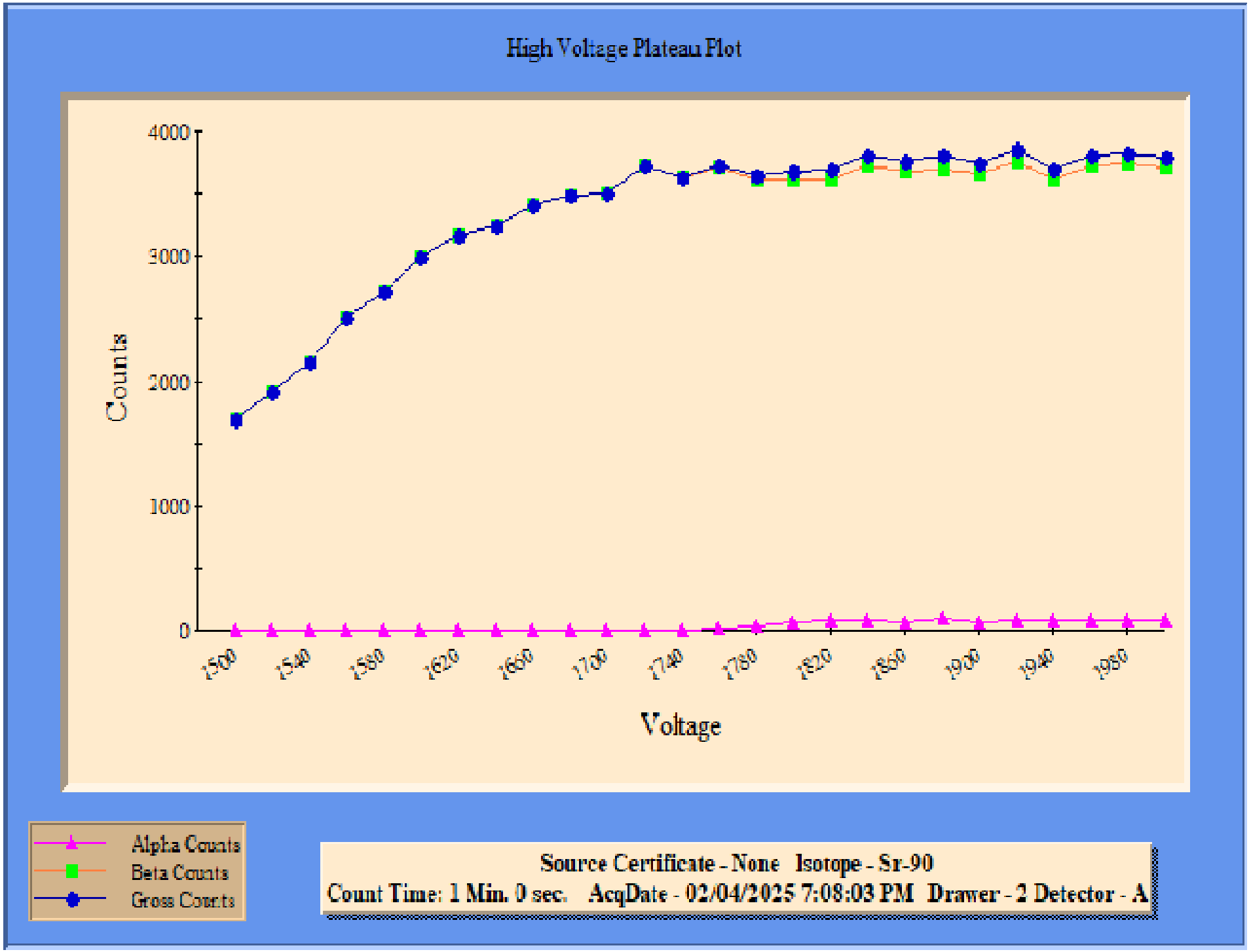
Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

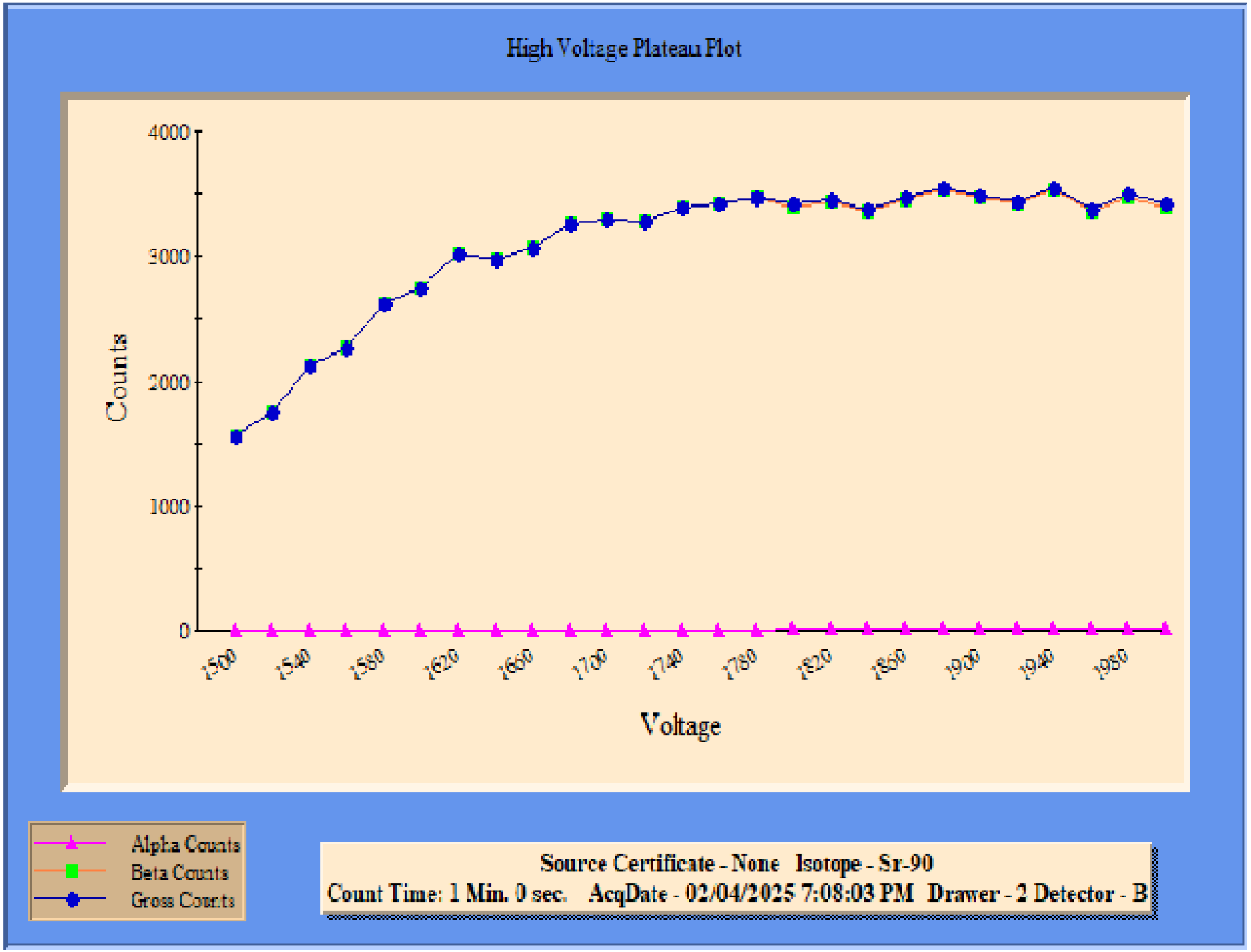
Collected By: _____ **Date:** _____

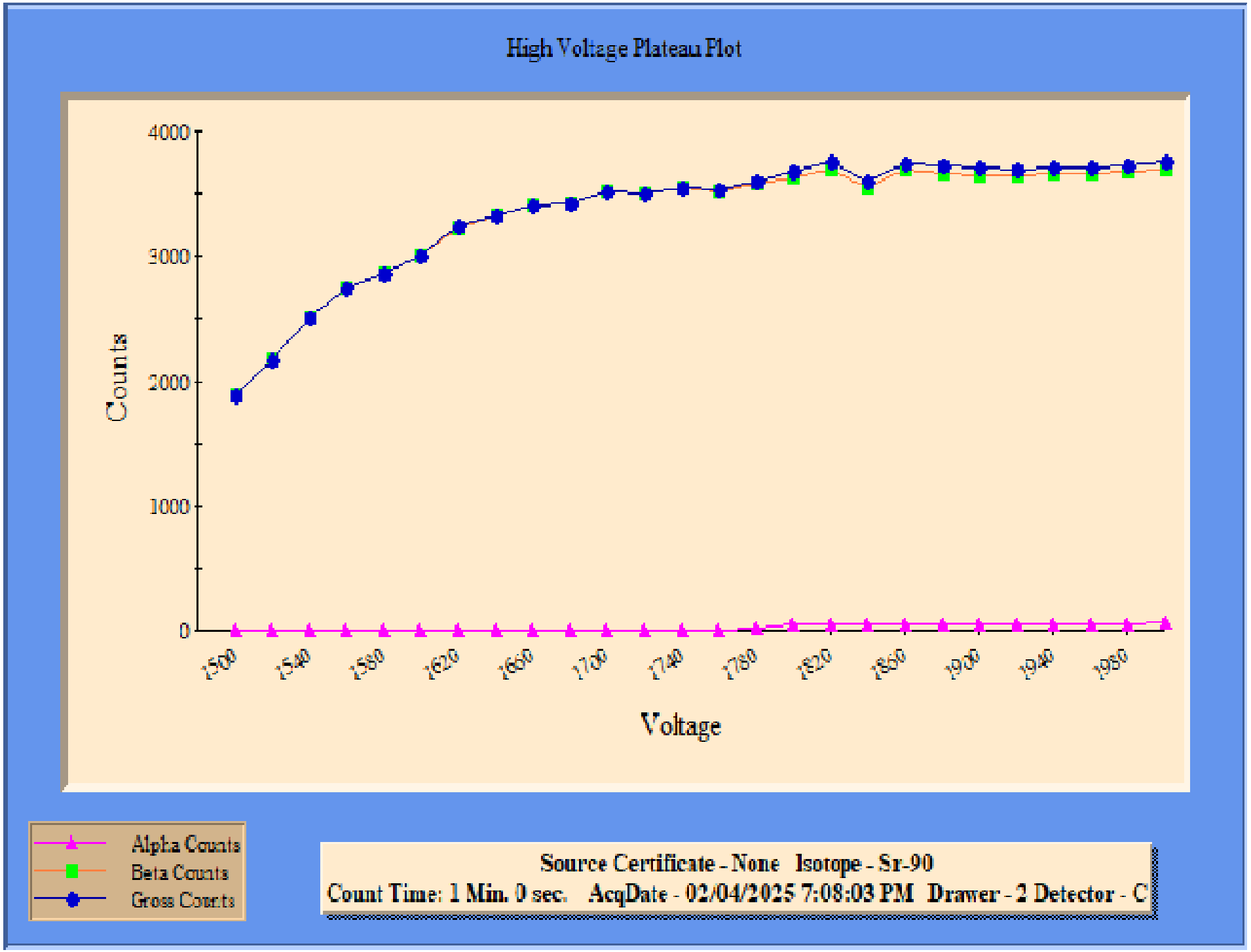
Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

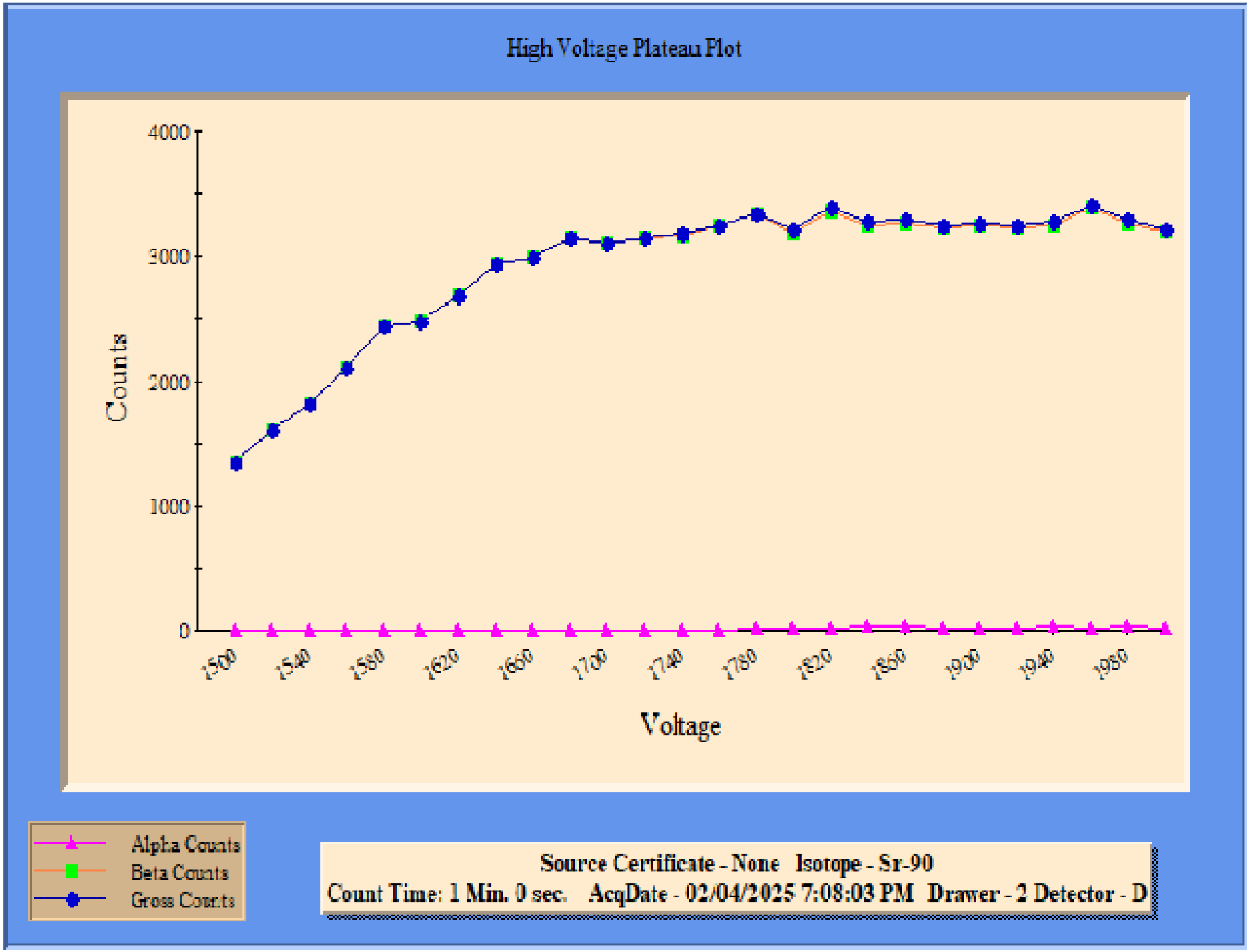
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - A


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - B


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:08:03 PM Drawer - 2 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1721	1720	1
1520	2063	2063	0
1540	2349	2349	0
1560	2662	2661	1
1580	2835	2835	0
1600	3055	3054	1
1620	3243	3243	0
1640	3320	3319	1
1660	3529	3529	0
1680	3460	3459	1
1700	3586	3584	2
1720	3712	3708	4
1740	3677	3677	0
1760	3616	3609	7
1780	3809	3788	21
1800	3798	3758	40
1820	3814	3750	64
1840	3632	3571	61
1860	3859	3796	63
1880	3712	3669	43
1900	3596	3552	44
1920	3707	3663	44
1940	3688	3638	50
1960	3771	3718	53
1980	3766	3721	45
2000	3670	3633	37

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1566	1565	1
1520	1866	1865	1
1540	2101	2101	0
1560	2425	2425	0
1580	2651	2649	2
1600	2709	2707	2
1620	2958	2958	0
1640	3114	3112	2
1660	3216	3216	0
1680	3251	3251	0
1700	3243	3242	1
1720	3433	3432	1
1740	3481	3480	1
1760	3317	3310	7
1780	3339	3318	21
1800	3498	3448	50
1820	3490	3431	59
1840	3488	3435	53
1860	3572	3503	69
1880	3485	3412	73
1900	3488	3444	44
1920	3413	3352	61
1940	3393	3339	54
1960	3501	3443	58
1980	3392	3336	56
2000	3471	3418	53

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1943	1942	1
1520	2322	2322	0
1540	2596	2596	0
1560	2881	2879	2
1580	3123	3121	2
1600	3154	3153	1
1620	3375	3375	0
1640	3337	3334	3
1660	3515	3514	1
1680	3571	3570	1
1700	3559	3558	1
1720	3495	3493	2
1740	3624	3621	3
1760	3664	3649	15
1780	3633	3606	27
1800	3769	3706	63
1820	3773	3701	72
1840	3633	3551	82
1860	3673	3599	74
1880	3615	3534	81
1900	3596	3527	69
1920	3633	3567	66
1940	3665	3582	83
1960	3748	3678	70
1980	3680	3597	83
2000	3753	3665	88

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 19:47
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1405	1405	0
1520	1737	1737	0
1540	2027	2027	0
1560	2352	2350	2
1580	2489	2485	4
1600	2667	2667	0
1620	2896	2894	2
1640	3066	3064	2
1660	3148	3146	2
1680	3135	3134	1
1700	3289	3288	1
1720	3226	3224	2
1740	3228	3224	4
1760	3281	3273	8
1780	3292	3274	18
1800	3351	3303	48
1820	3246	3176	70
1840	3420	3340	80
1860	3445	3362	83
1880	3342	3268	74
1900	3337	3256	81
1920	3366	3302	64
1940	3282	3205	77
1960	3308	3249	59
1980	3376	3288	88
2000	3446	3376	70

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1473	1473	0
1520	1740	1740	0
1540	2173	2172	1
1560	2323	2323	0
1580	2748	2747	1
1600	2856	2855	1
1620	2997	2997	0
1640	3197	3197	0
1660	3447	3446	1
1680	3605	3605	0
1700	3502	3502	0
1720	3604	3601	3
1740	3608	3607	1
1760	3727	3725	2
1780	3697	3690	7
1800	3759	3737	22
1820	3677	3657	20
1840	3605	3580	25
1860	3765	3741	24
1880	3790	3765	25
1900	3760	3740	20
1920	3750	3721	29
1940	3756	3727	29
1960	3772	3755	17
1980	3845	3832	13
2000	3782	3752	30

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1503	1503	0
1520	1876	1876	0
1540	2016	2015	1
1560	2215	2215	0
1580	2559	2559	0
1600	2711	2709	2
1620	2877	2875	2
1640	3042	3042	0
1660	3188	3188	0
1680	3233	3232	1
1700	3344	3344	0
1720	3269	3268	1
1740	3427	3425	2
1760	3350	3344	6
1780	3469	3456	13
1800	3461	3421	40
1820	3502	3456	46
1840	3440	3395	45
1860	3436	3378	58
1880	3448	3396	52
1900	3538	3490	48
1920	3422	3384	38
1940	3530	3479	51
1960	3445	3389	56
1980	3432	3375	57
2000	3502	3452	50

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1452	1452	0
1520	1673	1672	1
1540	1902	1902	0
1560	2293	2292	1
1580	2446	2445	1
1600	2606	2606	0
1620	2848	2848	0
1640	3084	3083	1
1660	3206	3204	2
1680	3387	3387	0
1700	3325	3324	1
1720	3304	3303	1
1740	3509	3509	0
1760	3536	3534	2
1780	3518	3510	8
1800	3509	3483	26
1820	3507	3481	26
1840	3552	3528	24
1860	3718	3692	26
1880	3681	3650	31
1900	3554	3525	29
1920	3527	3497	30
1940	3512	3488	24
1960	3591	3568	23
1980	3581	3554	27
2000	3614	3586	28

Special Notes:

Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL
User ID: Meier
Run Date: 02/04/2025 20:39
System Serial #: 072001

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 929	Alpha ROI Counts Chn 930 - 1023
1500	1309	1309	0
1520	1630	1629	1
1540	1832	1829	3
1560	2042	2042	0
1580	2471	2469	2
1600	2558	2558	0
1620	2679	2677	2
1640	2907	2906	1
1660	2965	2964	1
1680	3149	3146	3
1700	3070	3069	1
1720	3199	3198	1
1740	3258	3256	2
1760	3284	3281	3
1780	3266	3256	10
1800	3256	3222	34
1820	3320	3273	47
1840	3365	3320	45
1860	3443	3381	62
1880	3350	3299	51
1900	3318	3269	49
1920	3305	3257	48
1940	3379	3330	49
1960	3316	3266	50
1980	3366	3318	48
2000	3348	3305	43

Special Notes:

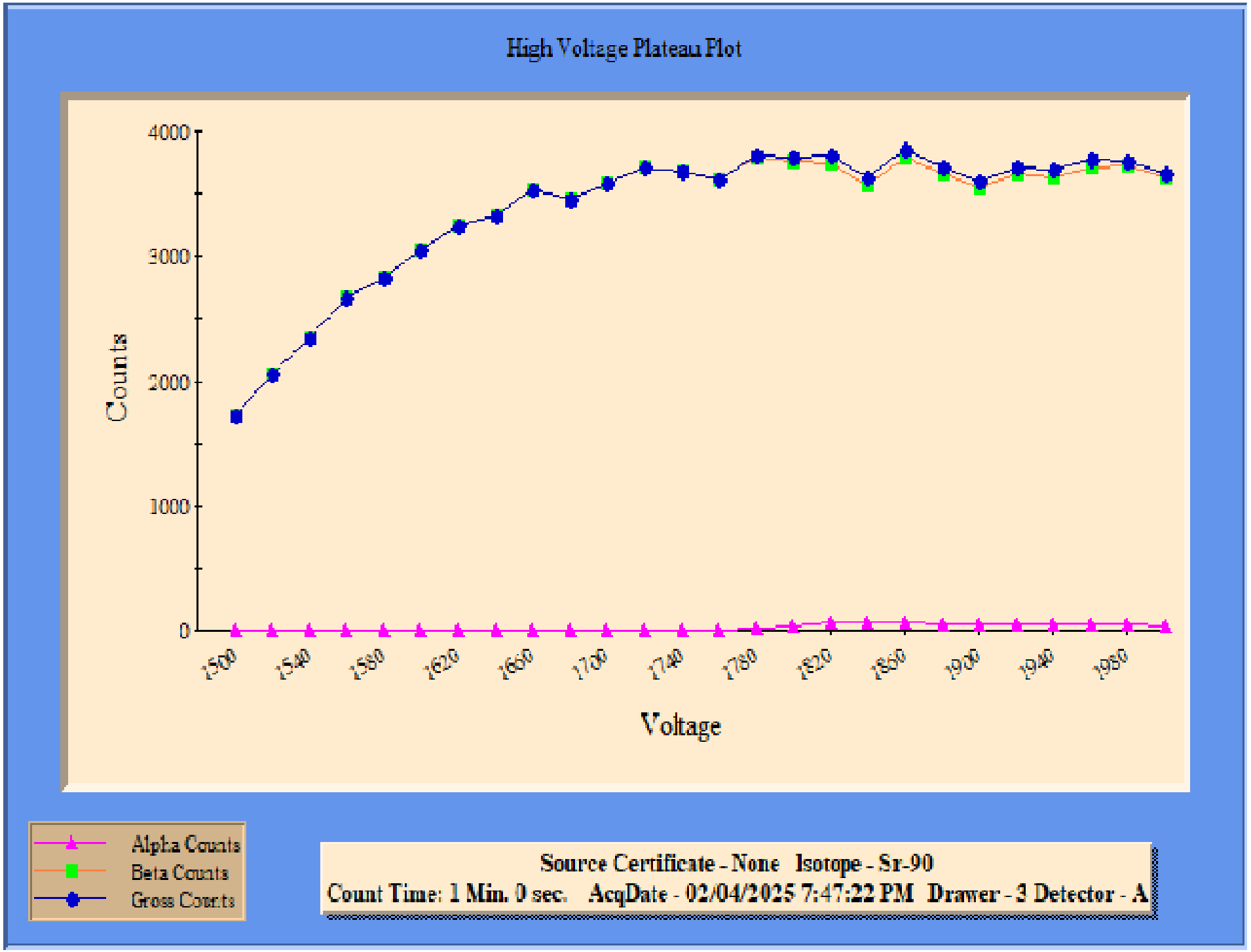
Report Generated: 02/04/2025 **G542HV.RPT ver 2.0**

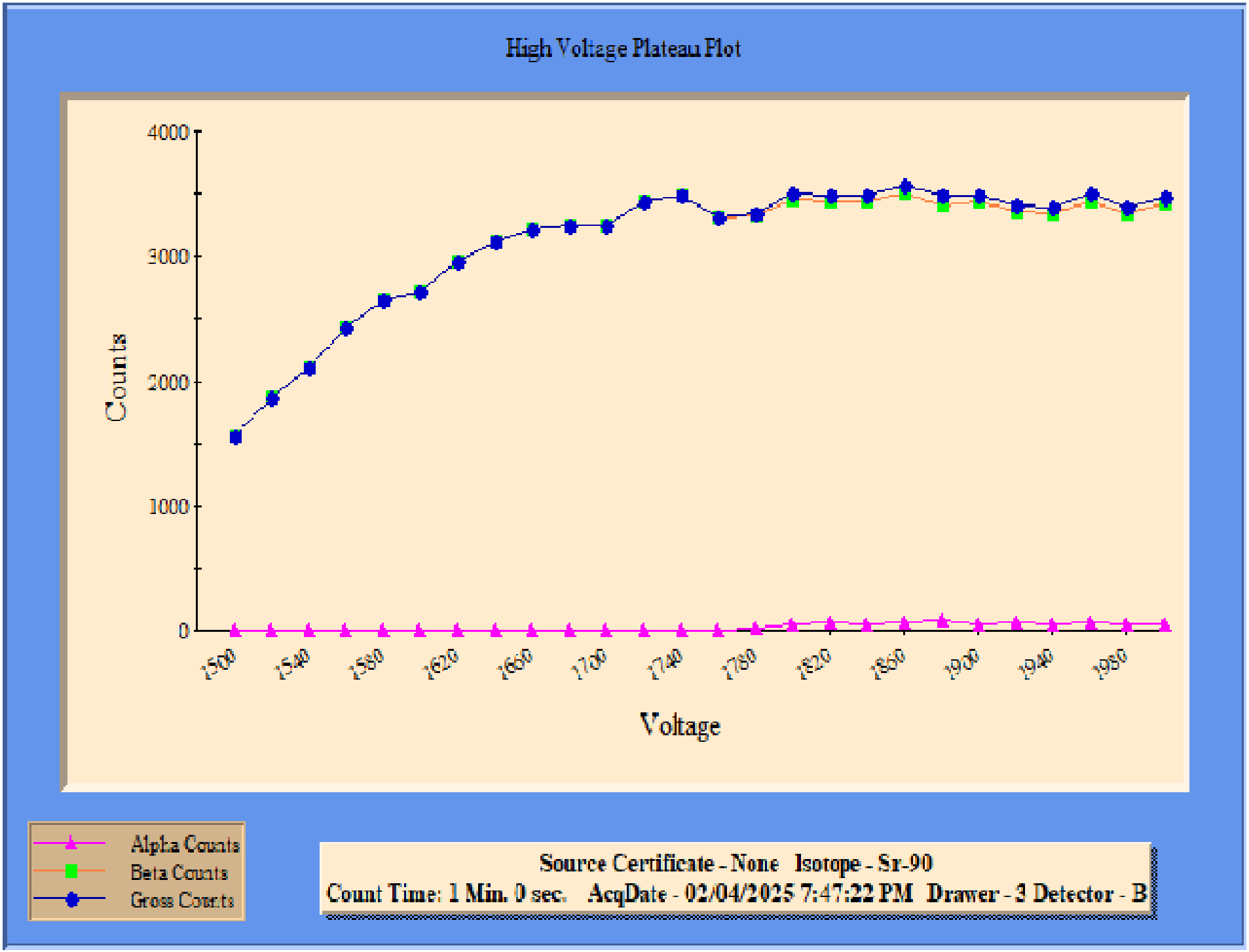
Collected By: _____ **Date:** _____

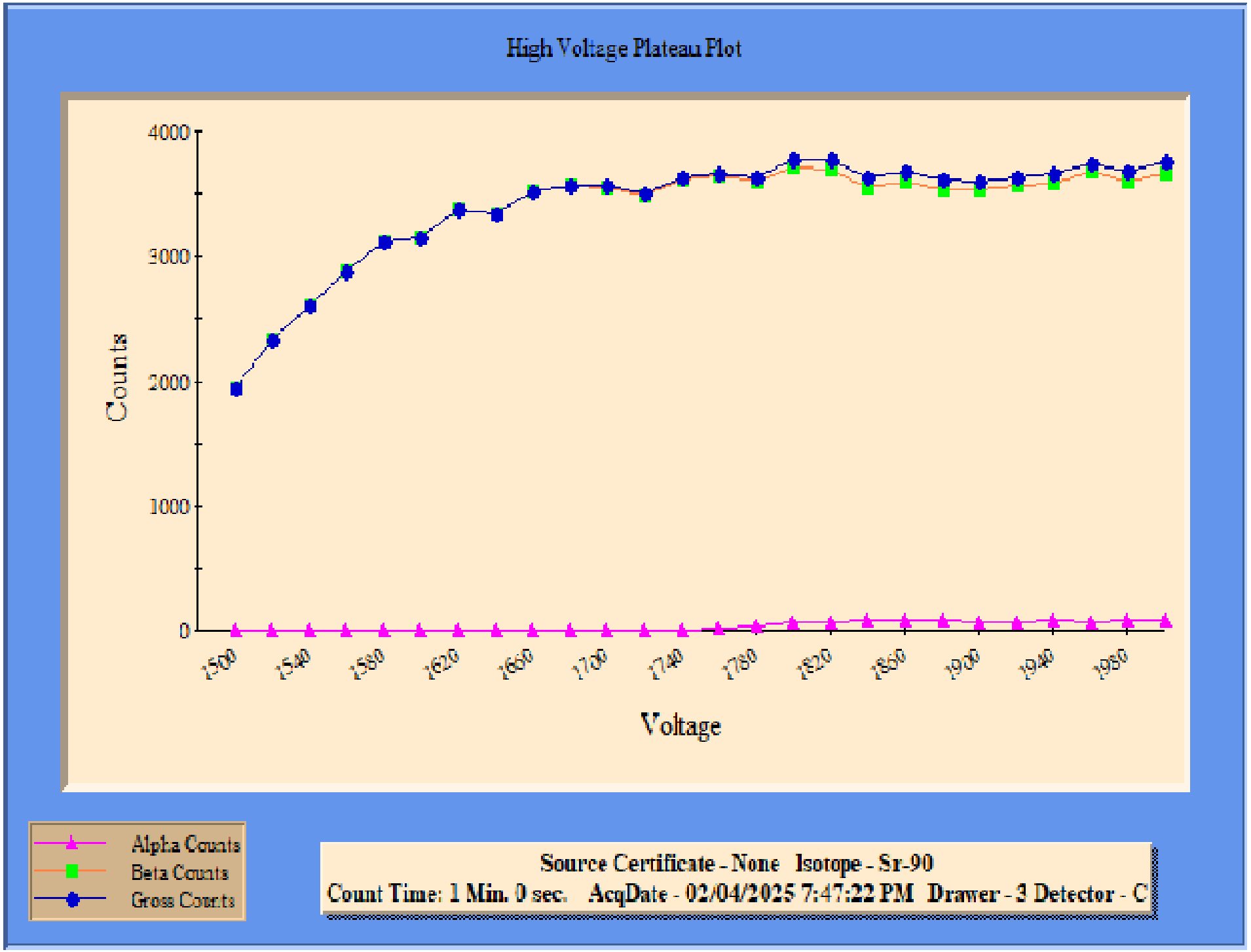
Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

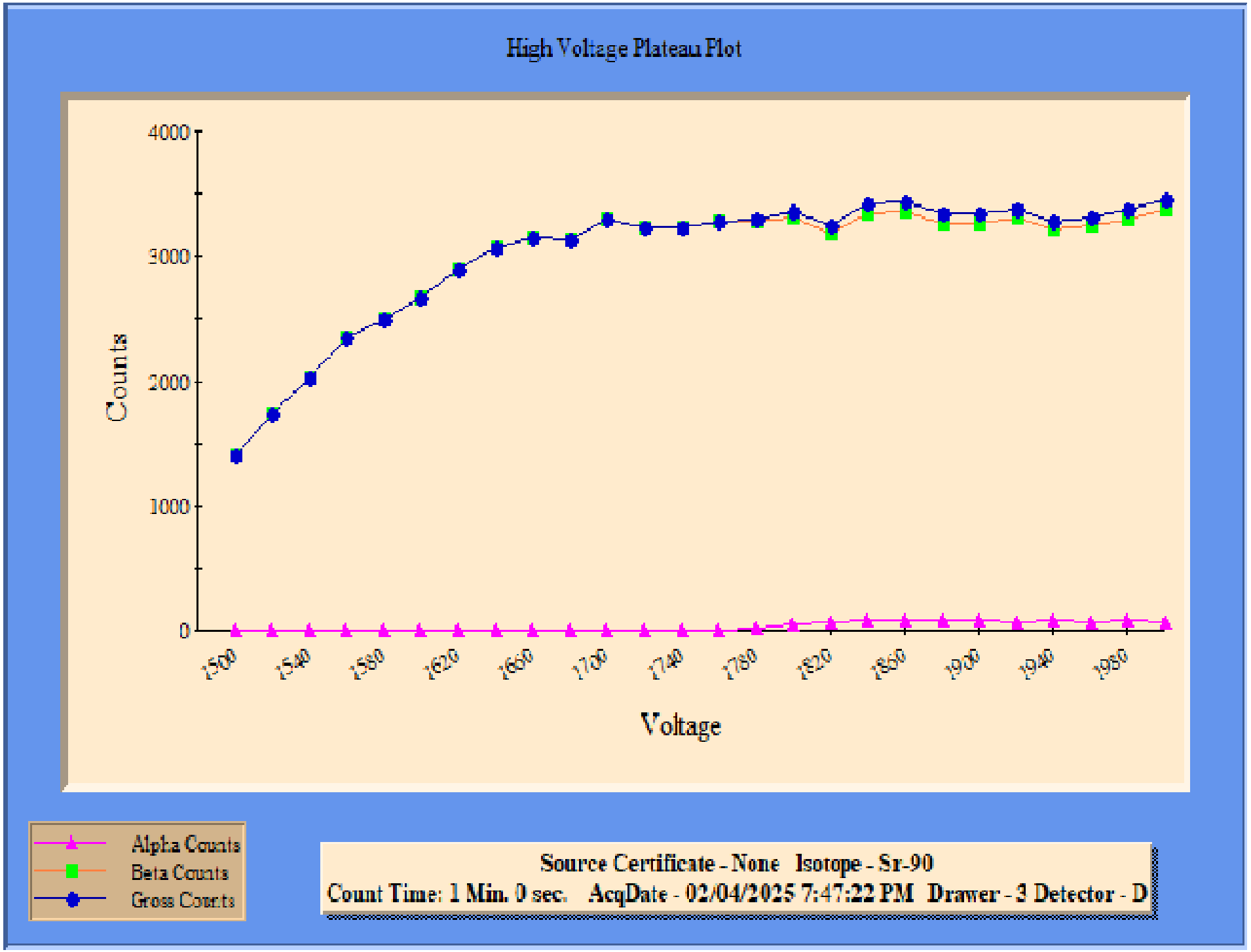
Approved By: _____ **Date:** _____

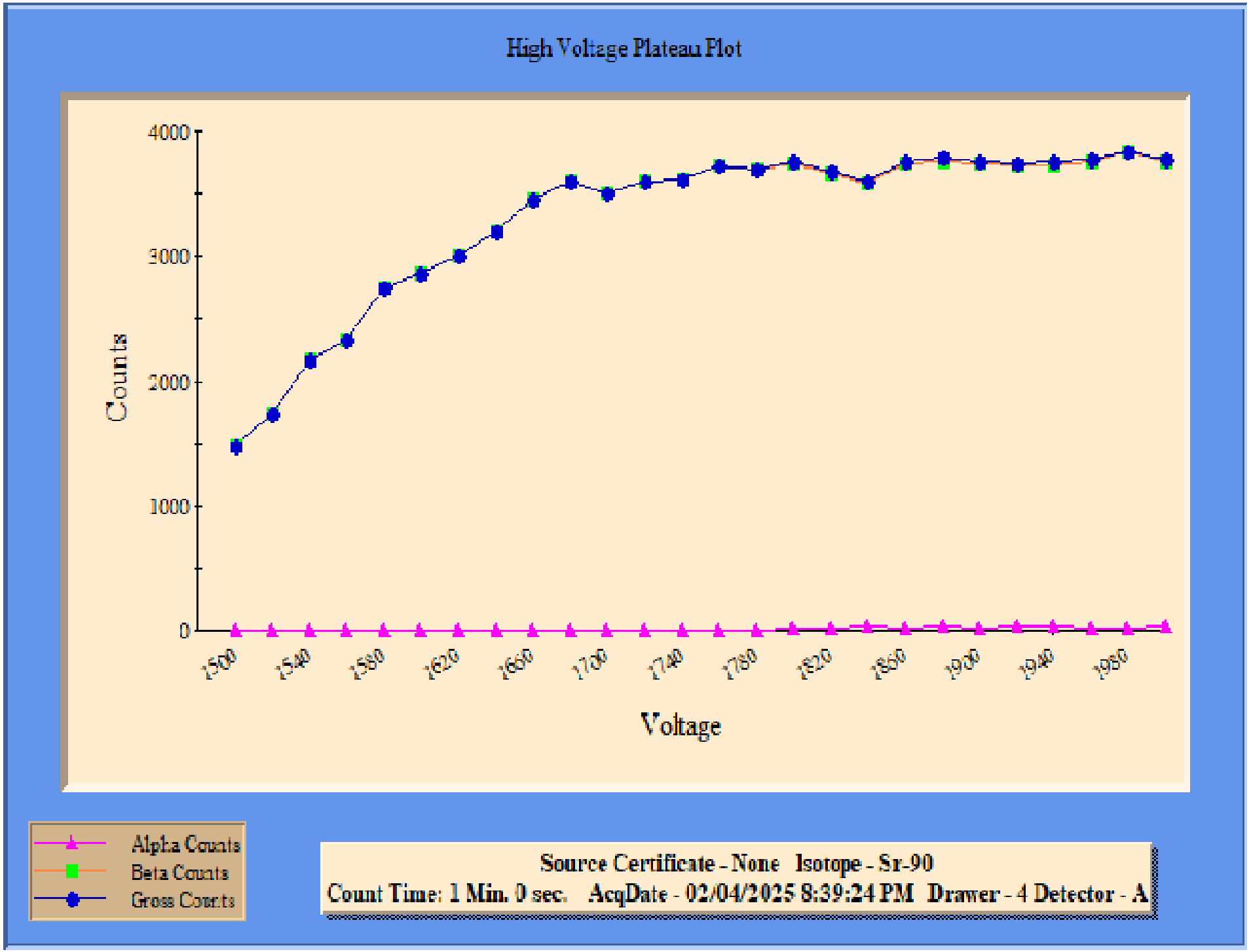
Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

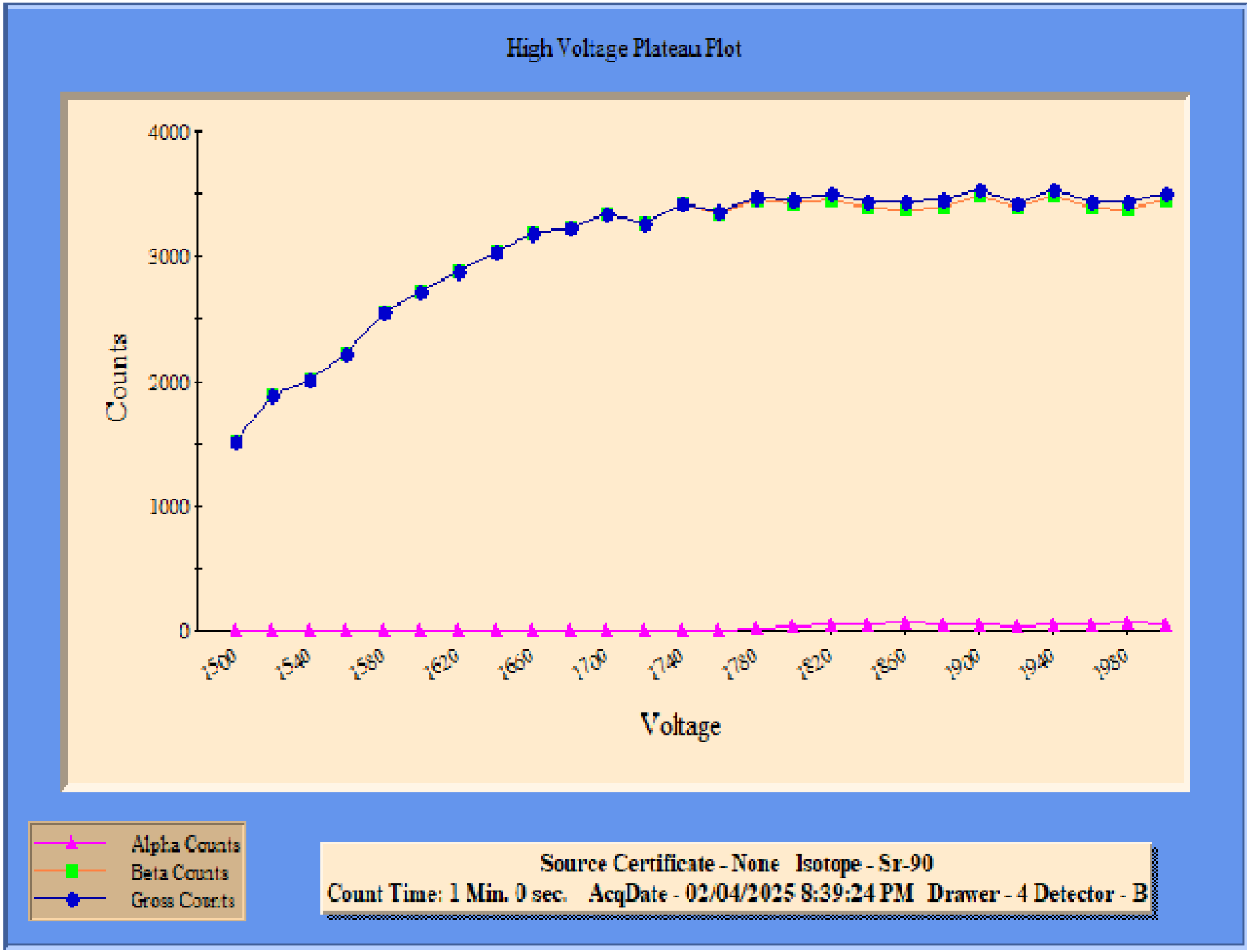

High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - A

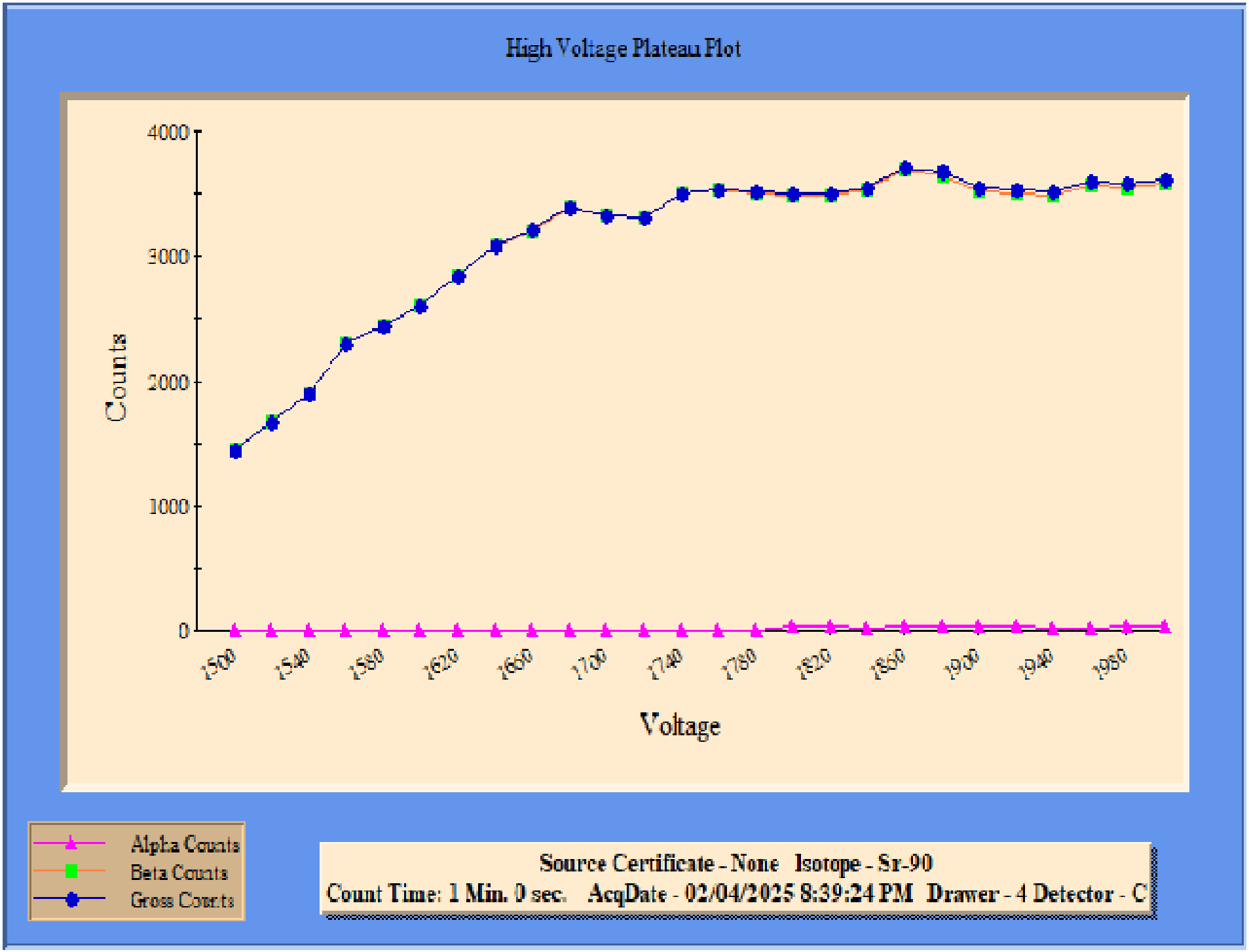

High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - B

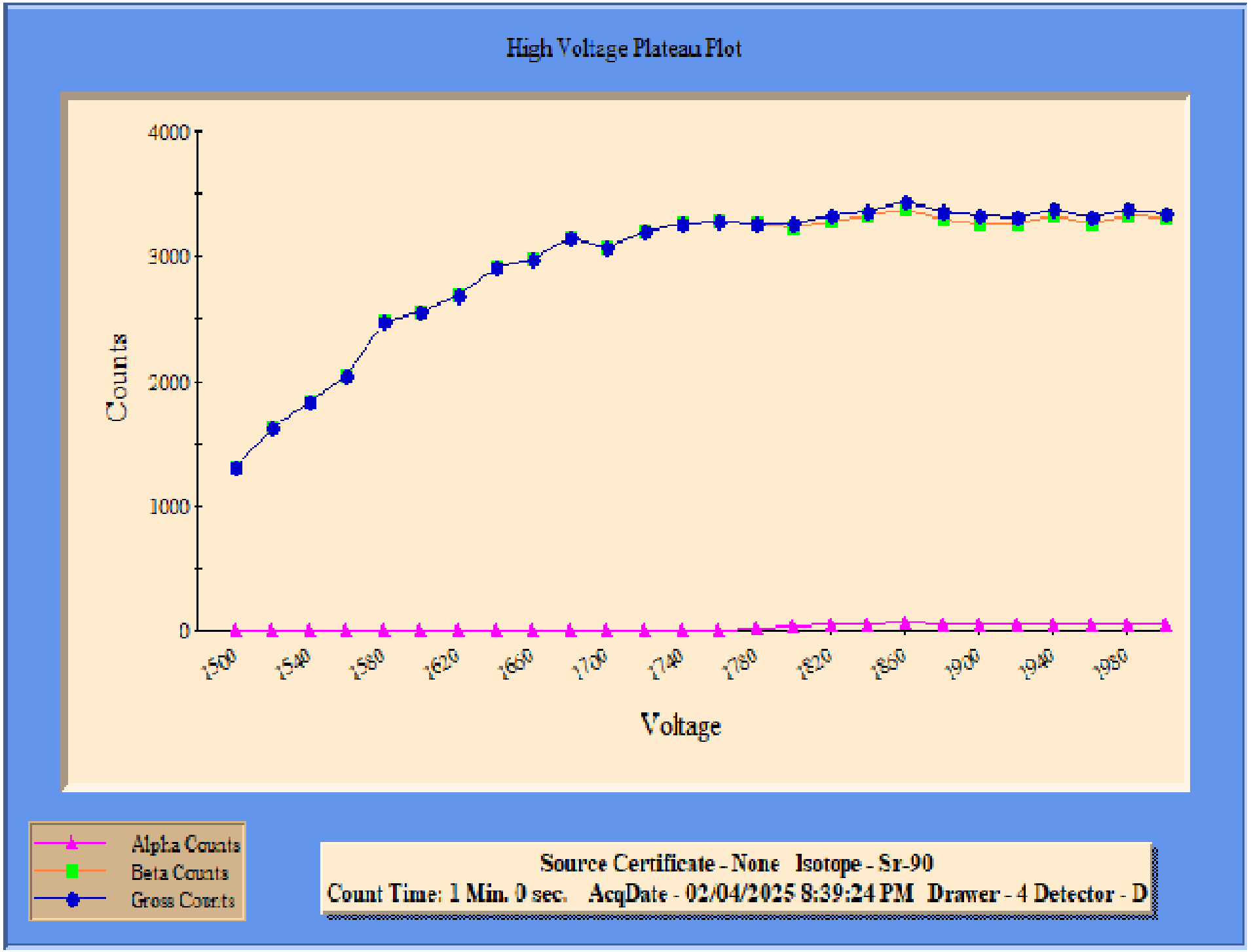

High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 7:47:22 PM Drawer - 3 Detector - D


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - A


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - B


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - C


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - None Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 02/04/2025 8:39:24 PM Drawer - 4 Detector - D

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:19
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	1	**Detector:**	A	**Source Certificate:**	23A16260
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Gamma

Count	Beta ROI Counts	Alpha ROI Counts
#	**Chn 1- 899**	**Chn 900 - 1023**
1	3420	3
2	3471	2
3	3488	1
4	3521	1
5	3407	0
6	3542	3
7	3430	3
8	3445	2
9	3520	0
10	3391	1
11	3563	5
12	3421	0
13	3495	2
14	3522	0
15	3443	3
16	3525	2
17	3467	5
18	3474	3
19	3505	5
20	3440	1

(Xbar) Mean:	3474.50	2.10
Calculated Chi-Sqr Value:	13.07	24.67

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: B
Voltage: 1780
Conf Level: 95.0 %
Test Date: 02/04/2025 23:19
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3457	29
2	3352	25
3	3334	18
4	3518	26
5	3381	26
6	3313	29
7	3466	24
8	3450	22
9	3453	23
10	3365	24
11	3479	17
12	3340	32
13	3462	25
14	3413	34
15	3290	25
16	3370	21
17	3392	20
18	3382	24
19	3407	22
20	3384	30

(Xbar) Mean:	3400.40	24.80
Calculated Chi-Sqr Value:	20.64	14.81

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:19
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	1	**Detector:**	C	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3569	3
2	3618	7
3	3684	8
4	3665	11
5	3478	7
6	3504	7
7	3542	12
8	3587	7
9	3657	4
10	3671	9
11	3575	5
12	3618	16
13	3589	1
14	3659	6
15	3542	8
16	3571	9
17	3595	3
18	3643	4
19	3613	10
20	3491	12

(Xbar) Mean:	3593.55	7.45
Calculated Chi-Sqr Value:	19.57	33.95

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1780
Conf Level: 95.0 %
Test Date: 02/04/2025 23:19
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3397	2
2	3317	1
3	3497	3
4	3363	1
5	3412	4
6	3441	4
7	3392	1
8	3330	0
9	3317	4
10	3320	0
11	3428	0
12	3416	1
13	3432	2
14	3340	0
15	3499	1
16	3339	1
17	3358	2
18	3385	3
19	3424	1
20	3422	1

(Xbar) Mean:	3391.45	1.60
Calculated Chi-Sqr Value:	17.26	21.75

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: A
Voltage: 1780
Conf Level: 95.0 %

Test Date: 02/04/2025 23:52
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: 23A16260
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3516	31
2	3578	23
3	3641	19
4	3669	22
5	3514	29
6	3657	24
7	3657	24
8	3542	22
9	3575	28
10	3659	28
11	3539	21
12	3575	28
13	3609	24
14	3593	39
15	3577	15
16	3560	44
17	3664	22
18	3589	17
19	3600	28
20	3605	29

(Xbar) Mean:	3595.95	25.85
Calculated Chi-Sqr Value:	12.75	34.68

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/04/2025 23:52
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	2	**Detector:**	B	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1780	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3210	0
2	3214	4
3	3368	3
4	3272	3
5	3219	2
6	3222	2
7	3281	6
8	3315	4
9	3316	1
10	3255	2
11	3252	1
12	3315	4
13	3355	2
14	3350	1
15	3264	7
16	3226	4
17	3341	3
18	3295	1
19	3218	7
20	3275	3

(Xbar) Mean:	3278.15	3.00
Calculated Chi-Sqr Value:	15.48	24.67

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: C
Voltage: 1780
Conf Level: 95.0 %

Test Date: 02/04/2025 23:52
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3630	15
2	3646	14
3	3679	12
4	3585	21
5	3609	17
6	3618	15
7	3618	9
8	3553	13
9	3730	14
10	3659	15
11	3742	10
12	3739	19
13	3636	15
14	3763	16
15	3635	20
16	3696	16
17	3656	12
18	3651	16
19	3566	21
20	3755	19

(Xbar) Mean:	3658.30	15.45
Calculated Chi-Sqr Value:	20.10	14.04

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: D
Voltage: 1780
Conf Level: 95.0 %

Test Date: 02/04/2025 23:52
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3384	1
2	3335	3
3	3518	8
4	3369	4
5	3354	5
6	3344	2
7	3464	11
8	3304	11
9	3483	7
10	3422	3
11	3444	3
12	3372	3
13	3495	5
14	3430	10
15	3347	5
16	3340	3
17	3438	4
18	3467	8
19	3361	5
20	3431	9

(Xbar) Mean:	3405.10	5.50
Calculated Chi-Sqr Value:	21.22	32.18

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/04/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/05/2025 00:14
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	3	**Detector:**	A	**Source Certificate:**	23A16260
Counting Time:	1 min 0 sec	**Voltage:**	1760	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Gamma

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 1- 899	Chn 900 - 1023
1	3568	5
2	3607	3
3	3542	2
4	3630	1
5	3609	8
6	3624	3
7	3631	4
8	3591	4
9	3528	4
10	3714	7
11	3610	5
12	3700	6
13	3603	6
14	3589	3
15	3461	4
16	3599	3
17	3652	8
18	3558	4
19	3618	3
20	3625	1

(Xbar) Mean:	3602.95	4.20
Calculated Chi-Sqr Value:	16.66	18.38

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL			**Test Date:**	02/05/2025 00:14
USER ID:	Meier			**System Serial #:**	072001
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	3	**Detector:**	B	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1760	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3312	4
2	3305	3
3	3410	4
4	3345	2
5	3335	8
6	3314	5
7	3256	8
8	3278	5
9	3326	2
10	3333	4
11	3258	7
12	3334	4
13	3324	9
14	3333	4
15	3277	7
16	3394	7
17	3345	6
18	3195	5
19	3353	4
20	3276	6

(Xbar) Mean:	3315.15	5.20
Calculated Chi-Sqr Value:	13.78	14.46

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: C
Voltage: 1760
Conf Level: 95.0 %

Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3615	10
2	3681	8
3	3674	10
4	3604	11
5	3756	8
6	3682	9
7	3688	8
8	3671	12
9	3759	8
10	3814	7
11	3640	11
12	3671	17
13	3761	11
14	3748	10
15	3713	8
16	3696	12
17	3657	14
18	3680	11
19	3646	12
20	3687	6

(Xbar) Mean:	3692.15	10.15
Calculated Chi-Sqr Value:	14.40	12.47

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: D
Voltage: 1760
Conf Level: 95.0 %

Test Date: 02/05/2025 00:14
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3427	7
2	3512	7
3	3432	10
4	3474	8
5	3507	9
6	3484	19
7	3491	10
8	3436	9
9	3494	10
10	3418	12
11	3446	5
12	3363	7
13	3428	10
14	3388	3
15	3357	7
16	3443	9
17	3495	12
18	3456	7
19	3373	2
20	3457	8

(Xbar) Mean:	3444.05	8.55
Calculated Chi-Sqr Value:	12.33	28.18

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1780
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 02/05/2025 15:35
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3523	8
2	3647	10
3	3651	13
4	3734	14
5	3569	9
6	3576	15
7	3523	19
8	3680	16
9	3630	18
10	3593	9
11	3626	10
12	3647	15
13	3622	12
14	3696	7
15	3520	14
16	3471	16
17	3485	17
18	3504	12
19	3597	15
20	3531	21

(Xbar) Mean:	3591.25	13.50
Calculated Chi-Sqr Value:	29.19	20.81

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** B
Counting Time: 1 min 0 sec **Voltage:** 1780
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 02/05/2025 15:35
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3331	34
2	3331	32
3	3324	30
4	3456	41
5	3219	37
6	3261	31
7	3286	25
8	3360	36
9	3304	30
10	3291	38
11	3247	30
12	3386	43
13	3378	35
14	3363	44
15	3335	25
16	3236	49
17	3326	32
18	3385	33
19	3316	35
20	3455	34

(Xbar) Mean:	3329.50	34.70
Calculated Chi-Sqr Value:	23.78	20.29

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** C
Counting Time: 1 min 0 sec **Voltage:** 1780
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 02/05/2025 15:35
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3653	28
2	3536	20
3	3612	30
4	3468	38
5	3580	16
6	3557	29
7	3580	23
8	3554	28
9	3531	30
10	3564	36
11	3541	36
12	3572	36
13	3489	28
14	3551	24
15	3541	25
16	3530	34
17	3405	33
18	3546	32
19	3525	18
20	3529	19

(Xbar) Mean:	3543.20	28.15
Calculated Chi-Sqr Value:	14.04	29.01

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1780
Conf Level: 95.0 %
Test Date: 02/05/2025 15:35
System Serial #: 072001
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3347	27
2	3380	31
3	3385	41
4	3362	33
5	3426	41
6	3380	33
7	3333	42
8	3328	43
9	3398	38
10	3495	50
11	3554	28
12	3448	39
13	3476	35
14	3450	43
15	3452	44
16	3538	38
17	3333	33
18	3444	34
19	3396	37
20	3421	36

(Xbar) Mean:	3417.30	37.30
Calculated Chi-Sqr Value:	23.88	16.90

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 02/05/2025 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

SGD GROUP:
METHOD EPA 900/9310
PREP DATE: 2/7/2025 0:00

PREP: CAB4242
ANALYST: ALG3788

BACKGROUNI	CPM	ALPHA	BETA
3A-1	DET1	0.071	1.51
3A-2	DET2	0.075	1.66
3A-3	DET3	0.043	1.44
3A-4	DET4	0.056	1.52
3B-1	DET5	0.040	0.98
3B-2	DET6	0.033	0.96
3B-3	DET7	0.097	0.93
3B-4	DET8	0.051	1.78
3C-1	DET9	0.057	1.09
3C-2	DET10	0.038	1.57
3C-3	DET11	0.051	1.37
3C-4	DET12	0.043	1.05
3D-1	DET13	0.122	1.03
3D-2	DET14	0.060	1.03
3D-3	DET15	0.073	1.06
3D-4	DET16	0.110	1.21

COUNT DATE/TIME	SAMPLE ID	SAMPLI VOL(mL	TARE WEIGHT GRAMS	GROSS WEIGHT GRAMS	NET WT. mg	ALPHA EFF	BETA EFF	DET NO.	ALPHA BKG	BETA BKG	ALPHA COUNTS	BETA COUNTS	COUNT TIME	ALPHA Lc	BETA Lc	ALPHA MDA	BETA MDA	Th-230 Std Xtalk	DET (1-8) Th-230 Std Xtalk	DET (9-16) Th-230 Std Xtalk
=======	=======	======	=======	=======	=====	=====	=====	======	======	======	=====	======	======	======	======	======	======	======		
2/7/25 12:01	ALPHA ICV	1000			0.0	28.6	45.7	1	0.071	1.51	31046	14705	5	0.311	0.897	1.566	2.380	0.437	0.437	NA
2/7/25 12:01	ALPHA ICV	1000			0.0	30.7	47.0	2	0.075	1.66	32059	13943	5	0.297	0.912	**1.474**	**2.393**	0.370	0.370	NA
2/7/25 12:01	ALPHA ICV	1000			0.0	29.5	46.2	3	0.043	1.44	30886	14057	5	0.234	0.867	**1.382**	**2.315**	0.403	0.403	NA
2/7/25 12:01	ALPHA ICV	1000			0.0	28.2	46.4	4	0.056	1.52	29925	16652	5	0.280	0.885	**1.517**	**2.346**	0.471	0.471	NA
2/7/25 12:07	ALPHA ICV	1000			0.0	30.2	46.7	5	0.040	0.98	32677	13395	5	0.221	0.706	**1.334**	**1.986**	0.372	0.372	NA
2/7/25 23:32	ALPHA ICV	1000			0.0	29.1	46.1	6	0.033	0.96	29873	14441	5	0.208	0.709	**1.344**	**1.999**	0.403	0.403	NA
2/7/25 12:07	ALPHA ICV	1000			0.0	30.5	47.1	7	0.097	0.93	30919	14100	5	0.340	0.681	**1.563**	**1.933**	0.363	0.363	NA
2/7/25 12:07	ALPHA ICV	1000			0.0	29.1	46.1	8	0.051	1.78	30492	14903	5	0.258	0.965	**1.442**	**2.511**	0.391	0.391	NA
2/7/25 12:13	ALPHA ICV	1000			0.0	29.5	47.1	9	0.057	1.09	31176	14006	5	0.270	0.740	**1.455**	**2.049**	0.400	NA	0.400
2/7/25 12:13	ALPHA ICV	1000			0.0	29.7	46.7	10	0.038	1.57	31862	13815	5	0.218	0.895	**1.345**	**2.364**	0.402	NA	0.402
2/7/25 12:13	ALPHA ICV	1000			0.0	29.8	47.5	11	0.051	1.37	32180	14145	5	0.252	0.822	**1.408**	**2.208**	0.397	NA	0.397
2/7/25 12:13	ALPHA ICV	1000			0.0	29.7	46.5	12	0.043	1.05	31243	13907	5	0.233	0.732	**1.375**	**2.041**	0.396	NA	0.396
2/7/25 23:32	ALPHA ICV	1000			0.0	30.2	47.1	13	0.122	1.03	30635	14466	5	0.386	0.716	**1.665**	**2.002**	0.363	NA	0.363
2/7/25 12:22	ALPHA ICV	1000			0.0	30.4	46.7	14	0.060	1.03	31692	13763	5	0.269	0.723	**1.427**	**2.021**	0.366	NA	0.366
2/7/25 12:22	ALPHA ICV	1000			0.0	30.4	46.4	15	0.073	1.06	31462	14081	5	0.296	0.739	**1.480**	**2.055**	0.356	NA	0.356
2/7/25 12:22	ALPHA ICV	1000			0.0	30.3	46.5	16	0.110	1.21	32377	13598	5	0.364	0.790	**1.618**	**2.157**	0.359	NA	0.359
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA

GROSS ALPHA AND GROSS BETA DATA REPORT
EPA 900/9310
0

True Value: 10117

SAMPLE ID	GROSS ALPHA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	GROSS BETA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	PREP DATE	ANALYSIS DATE	% Recov:
ALPHA ICV	9792.742	108.934	#DIV/0!	0.311	1.566	1.315	224.229	46.903	#DIV/0!	0.897	2.380	1.510	2/7/25 0:00	2/7/25 12:01	0.96795
ALPHA ICV	9412.607	103.038	#DIV/0!	0.297	1.474	1.229	397.054	44.344	#DIV/0!	0.912	2.393	1.512	2/7/25 0:00	2/7/25 12:01	0.93038
ALPHA ICV	9422.632	105.088	#DIV/0!	0.234	1.382	1.235	311.651	45.373	#DIV/0!	0.867	2.315	1.471	2/7/25 0:00	2/7/25 12:01	0.93137
ALPHA ICV	9563.733	108.361	#DIV/0!	0.280	1.517	1.312	497.832	49.106	#DIV/0!	0.885	2.346	1.488	2/7/25 0:00	2/7/25 12:01	0.94531
ALPHA ICV	9742.383	105.634	#DIV/0!	0.221	1.334	1.202	236.096	43.747	#DIV/0!	0.706	1.986	1.287	2/7/25 0:00	2/7/25 12:07	0.96297
ALPHA ICV	9248.905	104.884	#DIV/0!	0.208	1.344	1.239	467.623	46.008	#DIV/0!	0.709	1.999	1.297	2/7/25 0:00	2/7/25 23:32	0.91419
ALPHA ICV	9122.758	101.690	#DIV/0!	0.340	1.563	1.263	550.864	44.555	#DIV/0!	0.681	1.933	1.257	2/7/25 0:00	2/7/25 12:07	0.90173
ALPHA ICV	9425.948	105.802	#DIV/0!	0.258	1.442	1.262	578.978	46.823	#DIV/0!	0.965	2.511	1.582	2/7/25 0:00	2/7/25 12:07	0.93169
ALPHA ICV	9528.185	105.770	#DIV/0!	0.270	1.455	1.256	290.270	44.374	#DIV/0!	0.740	2.049	1.320	2/7/25 0:00	2/7/25 12:13	0.9418
ALPHA ICV	9655.331	106.021	#DIV/0!	0.218	1.345	1.219	191.581	44.493	#DIV/0!	0.895	2.364	1.497	2/7/25 0:00	2/7/25 12:13	0.95437
ALPHA ICV	9714.100	106.138	#DIV/0!	0.252	1.408	1.232	256.718	44.240	#DIV/0!	0.822	2.208	1.406	2/7/25 0:00	2/7/25 12:13	0.96018
ALPHA ICV	9484.013	105.166	#DIV/0!	0.233	1.375	1.228	294.879	44.752	#DIV/0!	0.732	2.041	1.318	2/7/25 0:00	2/7/25 12:13	0.93743
ALPHA ICV	9146.164	102.423	#DIV/0!	0.386	1.665	1.307	638.463	45.066	#DIV/0!	0.716	2.002	1.294	2/7/25 0:00	2/7/25 23:32	0.90404
ALPHA ICV	9406.036	103.560	#DIV/0!	0.269	1.427	1.224	414.999	44.345	#DIV/0!	0.723	2.021	1.306	2/7/25 0:00	2/7/25 12:22	0.92973
ALPHA ICV	9323.930	103.031	#DIV/0!	0.296	1.480	1.238	556.375	45.162	#DIV/0!	0.739	2.055	1.326	2/7/25 0:00	2/7/25 12:22	0.92161
ALPHA ICV	9616.238	104.750	#DIV/0!	0.364	1.618	1.287	384.230	44.328	#DIV/0!	0.790	2.157	1.382	2/7/25 0:00	2/7/25 12:22	0.9505
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	

SGD GROUP:	
METHOD	**EPA 900/9310**
PREP DATE:	2/7/2025 0:00
PREP:	**CAB4242**
ANALYST:	**ALG3788**

BACKGROUNI	CPM	ALPHA	BETA
3A-1	DET1	0.071	1.51
3A-2	DET2	0.075	1.66
3A-3	DET3	0.043	1.44
3A-4	DET4	0.056	1.52
3B-1	DET5	0.040	0.98
3B-2	DET6	0.033	0.96
3B-3	DET7	0.097	0.93
3B-4	DET8	0.051	1.78
3C-1	DET9	0.057	1.09
3C-2	DET10	0.038	1.57
3C-3	DET11	0.051	1.37
3C-4	DET12	0.043	1.05
3D-1	DET13	0.122	1.03
3D-2	DET14	0.060	1.03
3D-3	DET15	0.073	1.06
3D-4	DET16	0.110	1.21

COUNT DATE/TIME	SAMPLE ID	SAMPLI VOL(mL	TARE WEIGHT GRAMS	GROSS WEIGHT GRAMS	NET WT. mg	ALPHA EFF	BETA EFF	DET NO.	ALPHA BKG	BETA BKG	ALPHA COUNTS	BETA COUNTS	COUNT TIME	ALPHA Lc	BETA Lc	ALPHA MDA	BETA MDA	Th-230 Std Xtalk	DET (1-8) Th-230 Std Xtalk	DET (9-16) Th-230 Std Xtalk
=======	=======	======	=======	=======	=====	=====	=====	======	======	======	=====	======	======	======	======	======	======	======		
2/7/25 23:54	BETA ICV	1000			0.0	28.6	45.7	1	0.071	1.51	13	17789	5	0.311	0.897	1.566	2.380	0.437	0.437	NA
2/7/25 15:51	BETA ICV	1000			0.0	30.7	47.0	2	0.075	1.66	125	18376	5	0.297	0.912	**1.474**	**2.393**	0.370	0.370	NA
2/7/25 15:51	BETA ICV	1000			0.0	29.5	46.2	3	0.043	1.44	8	17713	5	0.234	0.867	**1.382**	**2.315**	0.403	0.403	NA
2/7/25 15:51	BETA ICV	1000			0.0	28.2	46.4	4	0.056	1.52	9	18117	5	0.280	0.885	**1.517**	**2.346**	0.471	0.471	NA
2/7/25 23:54	BETA ICV	1000			0.0	30.2	46.7	5	0.040	0.98	104	17980	5	0.221	0.706	**1.334**	**1.986**	0.372	0.372	NA
2/7/25 23:00	BETA ICV	1000			0.0	29.1	46.1	6	0.033	0.96	5	16379	5	0.208	0.709	**1.344**	**1.999**	0.403	0.403	NA
2/7/25 15:51	BETA ICV	1000			0.0	30.5	47.1	7	0.097	0.93	30	18538	5	0.340	0.681	**1.563**	**1.933**	0.363	0.363	NA
2/7/25 15:51	BETA ICV	1000			0.0	29.1	46.1	8	0.051	1.78	12	18208	5	0.258	0.965	**1.442**	**2.511**	0.391	0.391	NA
2/7/25 15:52	BETA ICV	1000			0.0	29.5	47.1	9	0.057	1.09	13	17522	5	0.270	0.740	**1.455**	**2.049**	0.400	NA	0.400
2/7/25 15:52	BETA ICV	1000			0.0	29.7	46.7	10	0.038	1.57	15	17298	5	0.218	0.895	**1.345**	**2.364**	0.402	NA	0.402
2/7/25 15:52	BETA ICV	1000			0.0	29.8	47.5	11	0.051	1.37	29	18336	5	0.252	0.822	**1.408**	**2.208**	0.397	NA	0.397
2/7/25 23:00	BETA ICV	1000			0.0	29.7	46.5	12	0.043	1.05	51	17115	5	0.233	0.732	**1.375**	**2.041**	0.396	NA	0.396
2/7/25 23:01	BETA ICV	1000			0.0	30.2	47.1	13	0.122	1.03	15	17705	5	0.386	0.716	**1.665**	**2.002**	0.363	NA	0.363
2/7/25 15:57	BETA ICV	1000			0.0	30.4	46.7	14	0.060	1.03	105	17926	5	0.269	0.723	**1.427**	**2.021**	0.366	NA	0.366
2/7/25 15:57	BETA ICV	1000			0.0	30.4	46.4	15	0.073	1.06	25	17634	5	0.296	0.739	**1.480**	**2.055**	0.356	NA	0.356
2/7/25 15:57	BETA ICV	1000			0.0	30.3	46.5	16	0.110	1.21	118	18174	5	0.364	0.790	**1.618**	**2.157**	0.359	NA	0.359
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA
					0.0	FALSE	FALSE							#VALUE!	#VALUE!	**#VALUE!**	**#VALUE!**	FALSE	FALSE	NA

GROSS ALPHA AND GROSS BETA DATA REPORT
EPA 900/9310
0

SAMPLE ID	GROSS ALPHA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	GROSS BETA pCi/l result	2σCE	TPU	Lc	MDA/MDC	SDWA	PREP DATE	ANALYSIS DATE	True Value: 3547.52 % Recov:
BETA ICV	3.989	2.259	#DIV/0!	0.311	1.566	1.315	3506.965	51.585	#DIV/0!	0.897	2.380	1.510	2/7/25 0:00	2/7/25 23:54	0.98857
BETA ICV	36.591	6.444	#DIV/0!	0.297	1.474	1.229	3509.413	50.904	#DIV/0!	0.912	2.393	1.512	2/7/25 0:00	2/7/25 15:51	0.98926
BETA ICV	2.375	1.714	#DIV/0!	0.234	1.382	1.235	3455.593	50.930	#DIV/0!	0.867	2.315	1.471	2/7/25 0:00	2/7/25 15:51	0.97409
BETA ICV	2.787	1.908	#DIV/0!	0.280	1.517	1.312	3514.386	51.220	#DIV/0!	0.885	2.346	1.488	2/7/25 0:00	2/7/25 15:51	0.99066
BETA ICV	30.947	5.965	#DIV/0!	0.221	1.334	1.202	3458.447	50.682	#DIV/0!	0.706	1.986	1.287	2/7/25 0:00	2/7/25 23:54	0.97489
BETA ICV	1.497	1.379	#DIV/0!	0.208	1.344	1.239	3197.490	48.997	#DIV/0!	0.709	1.999	1.297	2/7/25 0:00	2/7/25 23:00	0.90133
BETA ICV	8.709	3.193	#DIV/0!	0.340	1.563	1.263	3545.355	51.086	#DIV/0!	0.681	1.933	1.257	2/7/25 0:00	2/7/25 15:51	0.99939
BETA ICV	3.631	2.121	#DIV/0!	0.258	1.442	1.262	3559.394	51.752	#DIV/0!	0.965	2.511	1.582	2/7/25 0:00	2/7/25 15:51	1.00335
BETA ICV	3.886	2.183	#DIV/0!	0.270	1.455	1.256	3349.249	49.630	#DIV/0!	0.740	2.049	1.320	2/7/25 0:00	2/7/25 15:52	0.94411
BETA ICV	4.488	2.315	#DIV/0!	0.218	1.345	1.219	3337.178	49.783	#DIV/0!	0.895	2.364	1.497	2/7/25 0:00	2/7/25 15:52	0.94071
BETA ICV	8.677	3.200	#DIV/0!	0.252	1.408	1.232	3475.499	50.366	#DIV/0!	0.822	2.208	1.406	2/7/25 0:00	2/7/25 15:52	0.9797
BETA ICV	15.416	4.258	#DIV/0!	0.233	1.375	1.228	3308.194	49.644	#DIV/0!	0.732	2.041	1.318	2/7/25 0:00	2/7/25 23:00	0.93254
BETA ICV	4.296	2.312	#DIV/0!	0.386	1.665	1.307	3382.042	49.855	#DIV/0!	0.716	2.002	1.294	2/7/25 0:00	2/7/25 23:01	0.95335
BETA ICV	31.075	5.969	#DIV/0!	0.269	1.427	1.224	3448.113	50.608	#DIV/0!	0.723	2.021	1.306	2/7/25 0:00	2/7/25 15:57	0.97198
BETA ICV	7.301	2.925	#DIV/0!	0.296	1.480	1.238	3420.760	50.538	#DIV/0!	0.739	2.055	1.326	2/7/25 0:00	2/7/25 15:57	0.96427
BETA ICV	34.884	6.338	#DIV/0!	0.364	1.618	1.287	3514.643	51.244	#DIV/0!	0.790	2.157	1.382	2/7/25 0:00	2/7/25 15:57	0.99073
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	
0	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#DIV/0!	#DIV/0!	#VALUE!	#VALUE!	#VALUE!	2/7/25 0:00	1/0/00 0:00	

G542 Unit 4
Calibration 07/24

	High Voltage	Changed?	Chi Sq Passed?	Notes
A Drawer	1760	(Y)/N	(Y)/N	
B Drawer	1760	(Y)/N	(Y)/N	
C Drawer	1780	(Y)/N	(Y)/N	
D Drawer	1760	(Y)/N	(Y)/N	4D-4 OOS

Comments:

Collected by: _____ Date: 7/26/24

Approved by: _____ Date: 7/29/24

Detector Names Unit 4:

Numerical:	Instrument:	PACE:
1	1A	4A-1
2	1B	4A-2
3	1C	4A-3
4	1D	4A-4
5	2A	4B-1
6	2B	4B-2
7	2C	4B-3
8	2D	4B-4
9	3A	4C-1
10	3B	4C-2
11	3C	4C-3
12	3D	4C-4
13	4A	4D-1
14	4B	4D-2
15	4C	4D-3
16	4D	4D-4

Standards Used:

23F04840	23F04832	23F04838	23F04831
23F04828	23F04839	23F04841	23F04834
23F04836	23F04835		23F04827

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer A

7/8/2024

4A-1=	Det1=	1A				4A-2=	Det2=	1B			
	Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
	1500	1336	1336	0			1500	1467	1467	0	
	1520	1697	1696	1			1520	1677	1675	2	
	1540	1834	1833	1			1540	1971	1967	4	
	1560	2130	2128	2			1560	2312	2307	5	
	1580	2358	2355	3			1580	2613	2611	2	
	1600	2553	2551	2			1600	2756	2754	2	
	1620	2828	2827	1			1620	3014	3012	2	
	1640	2960	2956	4			1640	3181	3180	1	
	1660	3156	3154	2			1660	3370	3369	1	
	1680	3252	3248	4			1680	3546	3545	1	
	1700	3283	3282	1			1700	3567	3566	1	
	1720	3321	3318	3			1720	3594	3591	3	
	1740	3391	3388	3			1740	3623	3617	6	
	1760	3443	3426	17	0.50%		1760	3716	3697	19	0.51%
	1780	3441	3411	30	0.88%		1780	3799	3754	45	1.20%
	1800	3397	3308	89			1800	3707	3614	93	
	1820	3471	3367	104			1820	3722	3601	121	
	1840	3408	3305	103			1840	3780	3681	99	
	1860	3422	3317	105			1860	3778	3655	123	
	1880	3549	3418	131			1880	3707	3605	102	
	1900	3442	3338	104			1900	3886	3766	120	
	1920	3430	3322	108			1920	3874	3739	135	
	1940	3353	3262	90			1940	3806	3687	119	
	1960	3472	3372	100			1960	3739	3620	119	
	1980	3432	3320	112			1980	3679	3576	103	
	2000	3473	3367	106			2000	3717	3584	133	
	1740	0.77%	26				1740	1.32%	48		
Slope Calc:	1760	1.45%	49				1760	0.27%	10		
	1780	2.46%	83				1780	1.75%	64		
	1800	3.25%	109				1800	1.15%	42		

4A-3=	Det3=	1C				4A-4=	Det4=	1D			
	Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts			Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
	1500	1704	1704	0			1500	1860	4860	0	
	1520	2030	2027	3			1520	2095	2094	1	
	1540	2260	2259	1			1540	2468	2468	0	
	1560	2549	2548	1			1560	2644	2644	0	
	1580	2870	2870	0			1580	2968	2968	0	
	1600	2809	2808	1			1600	3123	3121	2	
	1620	3254	3251	3			1620	3186	3185	1	
	1640	3340	3338	2			1640	3448	3448	0	
	1660	3406	3404	2			1660	3501	3501	0	
	1680	3535	3532	3			1680	3578	3577	1	
	1700	3525	3522	3			1700	3638	3636	2	
	1720	3625	3620	5			1720	3666	3664	2	
	1740	3652	3647	5			1740	3672	3670	2	
	1760	3709	3678	31	0.84%		1760	3835	3827	8	0.21%
	1780	3736	3674	62	1.69%		1780	3793	3771	22	0.58%
	1800	3746	3624	122			1800	3898	3858	40	
	1820	3725	3600	125			1820	3756	3691	65	
	1840	3662	3529	133			1840	3759	3696	63	
	1860	3816	3680	136			1860	3899	3827	72	
	1880	3921	3777	144			1880	3800	3729	71	
	1900	3782	3633	149			1900	3877	3811	66	
	1920	3803	3674	129			1920	3803	3723	80	
	1940	3848	3713	135			1940	3768	3714	54	
	1960	3653	3506	147			1960	3699	3625	74	
	1980	3697	3552	144			1980	3776	3714	62	
	2000	3785	3617	168			2000	3749	3690	59	
	1740	2.81%	102				1740	5.94%	222		
	1760	0.55%	20				1760	0.72%	27		
	1780	3.25%	118				1780	0.69%	26		
	1800	0.06%	2				1800	0.00%	0		

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer B

7/8/2024

4B-1= Det5= 2A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1299	1299	0	
1520	1515	1513	2	
1540	1675	1673	2	
1560	1965	1964	1	
1580	2414	2413	1	
1600	2395	2394	1	
1620	2795	2795	0	
1640	3041	3041	0	
1660	3324	3321	3	
1680	3414	3412	2	
1700	3425	3423	2	
1720	3565	3564	1	
1740	3630	3629	1	
1760	3548	3544	4	0.11%
1780	3707	3696	11	0.30%
1800	3658	3633	25	
1820	3652	3617	35	
1840	3786	3753	33	
1860	3621	3588	33	
1880	3606	3575	31	
1900	3692	3654	38	
1920	3745	3712	33	
1940	3704	3670	34	
1960	3802	3768	34	
1980	3729	3696	33	
2000	3644	3614	30	

4B-2= Det6= 2B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1750	1750	0	
1520	1997	1996	1	
1540	2351	2351	0	
1560	2654	2652	2	
1580	2897	2896	1	
1600	3146	3143	3	
1620	3228	3226	2	
1640	3449	3448	1	
1660	3371	3370	1	
1680	3636	3635	1	
1700	3602	3599	3	
1720	3702	3701	1	
1740	3639	3636	3	
1760	3679	3675	4	0.11%
1780	3753	3740	13	0.35%
1800	3815	3778	37	
1820	3802	3766	36	
1840	3842	3798	44	
1860	3774	3736	38	
1880	3851	3806	45	
1900	3862	3810	52	
1920	3769	3735	34	
1940	3822	3777	45	
1960	3744	3696	48	
1980	3968	3925	43	
2000	3765	3724	41	

4B-3= Det7= 2C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2332	2331	1	
1520	2596	2594	2	
1540	2973	2971	2	
1560	3164	3164	0	
1580	3349	3348	1	
1600	3462	3460	2	
1620	3508	3506	2	
1640	3512	3510	2	
1660	3679	3676	3	
1680	3705	3705	0	
1700	3658	3652	6	
1720	3793	3790	3	
1740	3761	3742	19	
1760	3860	3791	69	1.82%
1780	3873	3768	105	2.79%
1800	3819	3651	168	
1820	3869	3654	215	
1840	3828	3605	223	
1860	3884	3687	197	
1880	3898	3670	228	
1900	3896	3726	169	
1920	3793	3626	167	
1940	3961	3756	205	
1960	3814	3628	185	
1980	3845	3638	207	
2000	3847	3669	178	

4B-4= Det8= 2D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1889	1889	0	
1520	2196	2196	0	
1540	2391	2390	1	
1560	2690	2689	1	
1580	2790	2789	1	
1600	2991	2991	0	
1620	2117	3114	3	
1640	2140	3139	1	
1660	3223	3221	2	
1680	3376	3374	2	
1700	3257	3255	2	
1720	3346	3335	11	
1740	3428	3410	18	
1760	3405	3366	39	1.16%
1780	3394	3301	93	2.82%
1800	3539	3385	153	
1820	3475	3296	179	
1840	3395	3234	161	
1860	3312	3133	178	
1880	3457	3275	181	
1900	3401	3236	165	
1920	3484	3305	179	
1940	3396	3202	193	
1960	3585	3387	198	
1980	3491	3319	172	
2000	3391	3216	175	

Slope Calc:																
	1760	1.47%	53		1760	1.75%	65		1760	3.64%	136		1760	1.16%	39	
	1780	3.40%	124		1780	4.34%	162		1780	3.70%	137		1780	5.28%	176	
	1800	1.21%	44		1800	1.63%	61		1800	2.82%	104		1800	7.09%	233	
	1820	3.32%	121		1820	1.75%	66		1820	2.67%	98		1820	0.79%	26	

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer C

7/8/2024

4C-1= Det9= 3A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	754	754	0	
1520	952	952	0	
1540	1206	1206	0	
1560	1415	1414	1	
1580	1643	1643	0	
1600	1835	1835	0	
1620	2197	2193	4	
1640	2385	2385	0	
1660	2566	2566	0	
1680	2789	2787	2	
1700	2837	2835	2	
1720	2882	2881	1	
1740	3144	3142	2	
1760	3290	3286	4	0.12%
1780	3183	3181	2	0.06%
1800	3151	3146	5	
1820	3295	3288	7	
1840	3358	3344	14	
1860	3185	3170	15	
1880	3225	3214	11	
1900	3241	3228	13	
1920	3277	3266	11	
1940	3384	3374	10	
1960	3428	3419	9	
1980	3319	3310	9	
2000	3284	3276	8	

	1740	14.57%	453	
	1760	14.55%	463	
Slope Calc:	1780	0.87%	28	
	1800	2.23%	72	
	1820	1.46%	47	
	1840	3.71%	120	

4C-2= Det10= 3B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1273	1273	0	
1520	1519	1519	0	
1540	1856	1856	0	
1560	2167	2166	1	
1580	2332	2330	2	
1600	2527	2527	0	
1620	2853	2852	1	
1640	2981	2980	1	
1660	3165	3162	3	
1680	3302	3300	2	
1700	3413	3411	2	
1720	3431	3428	3	
1740	3578	3573	5	
1760	3579	3571	8	0.22%
1780	3608	3579	29	0.81%
1800	3679	3613	66	
1820	3634	3563	71	
1840	3677	3597	80	
1860	3655	3581	74	
1880	3551	3478	73	
1900	3807	3728	79	
1920	3630	3565	65	
1940	3606	3549	57	
1960	3631	3554	77	
1980	3728	3664	64	
2000	3811	3744	67	

	1740	4.30%	152	
	1760	4.75%	169	
Slope Calc:	1780	0.22%	8	
	1800	2.61%	93	
	1820	4.15%	149	
	1840	1.34%	48	

4C-3= Det11= 3C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1365	1363	2	
1520	1608	1606	2	
1540	1897	1896	1	
1560	2182	2182	0	
1580	2496	2495	1	
1600	2604	2603	1	
1620	2792	2789	3	
1640	3135	3135	0	
1660	3276	3274	2	
1680	3434	3429	5	
1700	3562	3559	3	
1720	3460	3456	4	
1740	3628	3620	8	
1760	3625	3610	15	0.42%
1780	3662	3635	27	0.74%
1800	3680	3622	58	
1820	3653	3563	90	
1840	3607	3528	79	
1860	3705	3611	94	
1880	3646	3563	83	
1900	3697	3626	71	
1920	3713	3638	75	
1940	3709	3620	89	
1960	3681	3618	63	
1980	3648	3569	79	
2000	3649	3582	67	

	1740	0.11%	4	
	1760	2.01%	72	
Slope Calc:	1780	0.25%	9	
	1800	1.31%	47	
	1820	0.25%	9	
	1840	0.45%	16	

4C-4= Det12= 3D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1435	1435	0	
1520	1685	1682	3	
1540	1870	1870	0	
1560	2204	2204	0	
1580	2516	2515	1	
1600	2767	2766	1	
1620	2954	2953	1	
1640	3097	3096	1	
1660	3337	3334	3	
1680	3411	3405	6	
1700	3485	3483	2	
1720	3548	3545	3	
1740	3629	3625	4	
1760	3562	3553	9	0.25%
1780	3650	3607	43	1.19%
1800	3660	3581	79	
1820	3654	3541	113	
1840	3673	3566	107	
1860	3614	3507	107	
1880	3810	3705	105	
1900	3558	3473	85	
1920	3709	3604	105	
1940	3688	3584	104	
1960	3693	3596	97	
1980	3518	3425	93	
2000	3671	3555	116	

	1740	1.63%	58	
	1760	0.59%	21	
Slope Calc:	1780	3.31%	118	
	1800	4.25%	152	
	1820	3.76%	134	
	1840	0.64%	23	

High Voltage Plateau and Slope Calculation G542 Unit 4 Drawer D

7/8/2024

4D-1= Det13= 4A

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1897	1896	1	
1520	2136	2136	0	
1540	2462	2460	2	
1560	2698	2698	0	
1580	2958	2958	0	
1600	3107	3106	1	
1620	3250	3247	3	
1640	3353	3349	4	
1660	3472	3471	1	
1680	3517	3514	3	
1700	3561	3559	2	
1720	3496	3493	3	
1740	3642	3629	13	
1760	3789	3764	25	0.66%
1780	3656	3578	78	2.18%
1800	3735	3608	127	3.52%
1820	3689	3529	160	4.53%
1840	3656	3493	163	
1860	3797	3623	174	
1880	3792	3611	181	
1900	3877	3715	162	
1920	3765	3612	153	
1940	3729	3556	173	
1960	3800	3617	183	
1980	3664	3489	175	
2000	3808	3634	174	

1740	1.4%	49	
1760	1.0%	36	
1780	3.8%	136	
1800	3.9%	141	
1820	0.9%	33	

4D-2= Det14= 4B

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	2096	2095	1	
1520	2391	2390	1	
1540	2719	2717	2	
1560	2989	2987	2	
1580	3092	3090	2	
1600	3234	3233	1	
1620	3313	3312	1	
1640	3557	3555	2	
1660	3596	3595	1	
1680	3634	3631	3	
1700	3809	3806	3	
1720	3630	3630	0	
1740	3778	3772	6	
1760	3724	3707	17	0.46%
1780	3803	3770	33	0.88%
1800	3818	3735	83	2.22%
1820	3819	3733	86	2.30%
1840	3696	3598	98	
1860	3848	3776	72	
1880	3788	3683	105	
1900	3860	3780	80	
1920	3799	3712	87	
1940	3845	3770	75	
1960	3773	3683	90	
1980	3901	3812	89	
2000	3842	3749	93	

1740	1.9%	71	
1760	2.8%	103	
1780	4.7%	174	
1800	1.9%	69	
1820	2.3%	87	

4D-3= Det15= 4C

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	1493	1492	1	
1520	1702	1700	2	
1540	1975	1975	0	
1560	2257	2253	4	
1580	2523	2523	0	
1600	2755	2754	1	
1620	3046	3044	2	
1640	3158	3158	0	
1660	3442	3441	1	
1680	3476	3474	2	
1700	3402	3401	1	
1720	3574	3573	1	
1740	3664	3663	1	
1760	3563	3558	5	0.14%
1780	3708	3706	2	0.05%
1800	3735	3709	26	0.70%
1820	3768	3726	42	1.13%
1840	3818	3789	29	
1860	3777	3746	31	
1880	3822	3788	34	
1900	3773	3749	24	
1920	3713	3678	35	
1940	3703	3672	31	
1960	3722	3708	14	
1980	3695	3664	31	
2000	3706	3681	25	

1740	8.5%	308	
1760	4.2%	153	
1780	3.4%	126	
1800	5.1%	188	
1820	2.2%	82	

4D-4= Det16= 4D

Voltage	Gross RIO Counts	Beta ROI Counts	Apha ROI Counts	
1500	582	582	0	
1520	770	769	1	
1540	936	935	1	
1560	1205	1205	0	
1580	1398	1396	2	
1600	1576	1576	0	
1620	1732	1732	0	
1640	2073	2071	2	
1660	2339	2338	1	
1680	2576	2575	1	
1700	2719	2718	1	
1720	2868	2867	1	
1740	3051	3048	3	
1760	3223	3220	3	0.09%
1780	3258	3253	5	0.15%
1800	3307	3303	4	0.12%
1820	3243	3240	3	0.09%
1840	3348	3345	3	
1860	3358	3355	3	
1880	3310	3307	3	
1900	3351	3346	5	
1920	3311	3305	6	
1940	3275	3268	7	
1960	3268	3265	3	
1980	3271	3269	2	
2000	3396	3393	3	

1740	18.9%	585	
1760	11.7%	373	
1780	9.1%	297	
1800	4.1%	135	
1820	1.6%	54	

NOT IN SERVICE

DECAY CALCUALTION

ACTIVITY FORMULA A = Ao(e^^-NT)

Sr-90
124007
ESC51613
22J11029

A= ACTIVITY OF SOURCE
Ao= INITIAL ACTIVITY
N= DECAY CONSTANT
T(1/2)= SOURCES HALF LIFE
T = NUMBER OF YEARS SINCE ORIGINATION

DATE OF ORIGINATION	25-Aug-22
DATE OF CALIBRATION	01-Jul-24
PREP:	13-Sep-22

Ao =	940.91	nCi				
N =	0.02					
T(1/2) =	28.60	years				
T =	1.85	years				
dilution =	1000.00					
A =	899.65	nCi	SR90/Y90			
A =	1997.22	dpm/ml	3994.4459	399.4446		
A =	899.65	pCi/ml	1799.3			
A =	899.65	+/-	16.207189	pCi/ml	3994.445911	
						11983.33773

Uncertainty	0.0173
Weight	0.05%
Volume (1000 ml)	0.50%

CSU 1.80%

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 14:29
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000

Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1336	1336	0
1520	1697	1696	1
1540	1834	1833	1
1560	2130	2128	2
1580	2358	2355	3
1600	2553	2551	2
1620	2828	2827	1
1640	2960	2956	4
1660	3156	3154	2
1680	3252	3248	4
1700	3283	3282	1
1720	3321	3318	3
1740	3391	3388	3
1760	3443	3426	17
1780	3441	3411	30
1800	3397	3308	89
1820	3471	3367	104
1840	3408	3305	103
1860	3422	3317	105
1880	3549	3418	131
1900	3442	3338	104
1920	3430	3322	108
1940	3353	3262	90
1960	3472	3372	100
1980	3432	3320	112
2000	3473	3367	106

Special Notes:

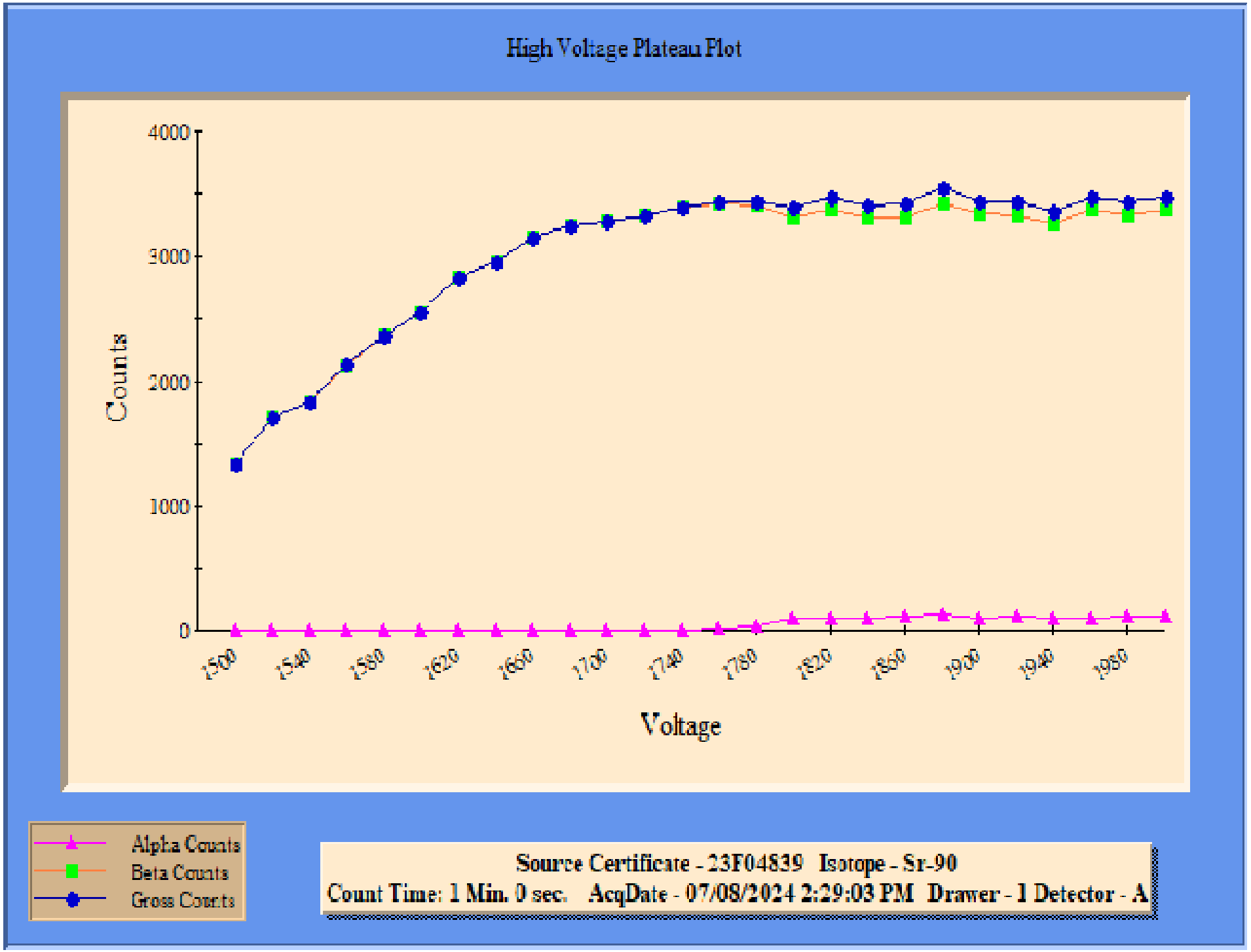
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 2:29:03 PM Drawer - 1 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 15:50
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1467	1467	0
1520	1677	1675	2
1540	1971	1967	4
1560	2312	2307	5
1580	2613	2611	2
1600	2756	2754	2
1620	3014	3012	2
1640	3181	3180	1
1660	3370	3369	1
1680	3546	3545	1
1700	3567	3566	1
1720	3594	3591	3
1740	3623	3617	6
1760	3716	3697	19
1780	3799	3754	45
1800	3707	3614	93
1820	3722	3601	121
1840	3780	3681	99
1860	3778	3655	123
1880	3707	3605	102
1900	3886	3766	120
1920	3874	3739	135
1940	3806	3687	119
1960	3739	3620	119
1980	3679	3576	103
2000	3717	3584	133

Special Notes:

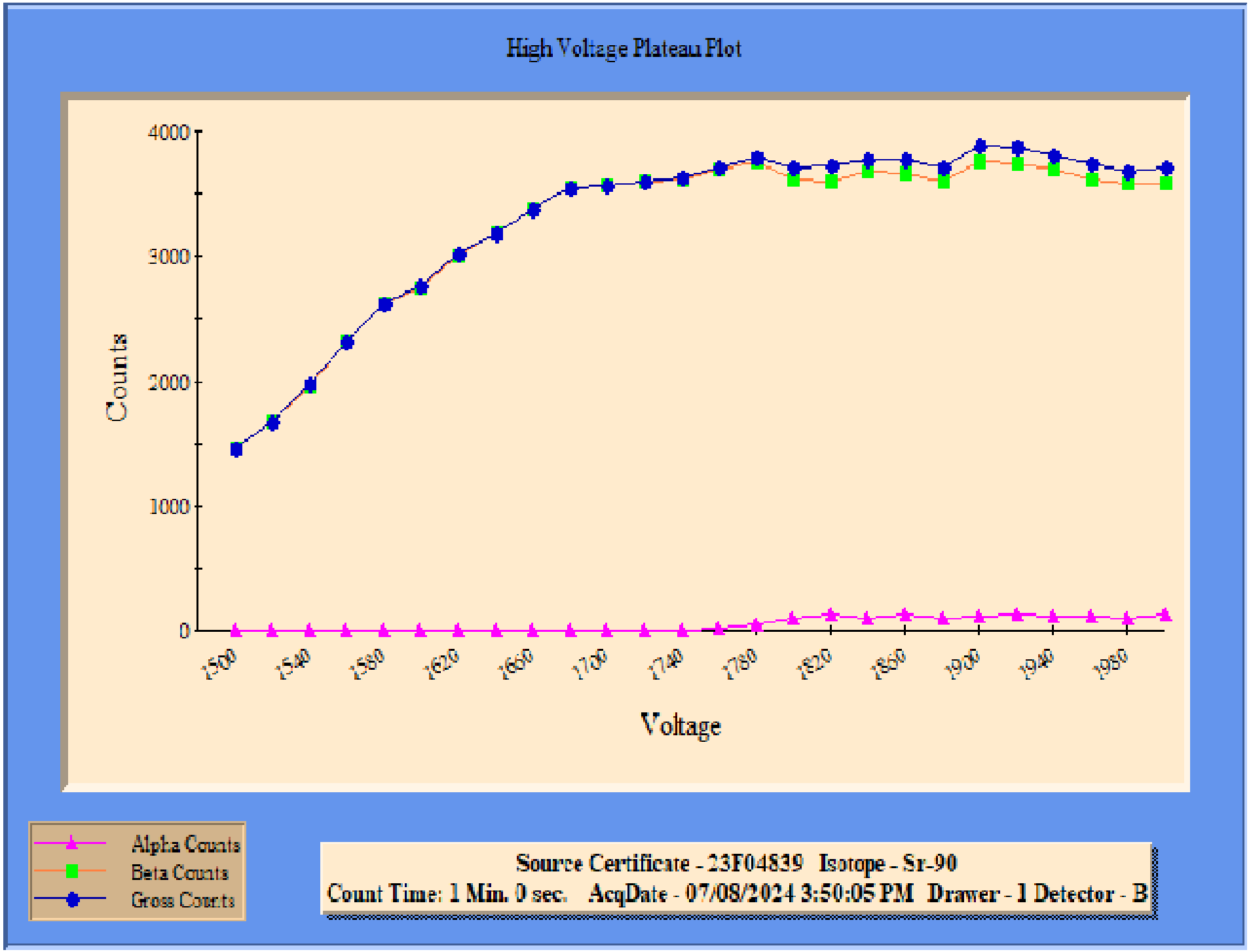
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 3:50:05 PM Drawer - 1 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 16:21
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000

Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1704	1704	0
1520	2030	2027	3
1540	2260	2259	1
1560	2549	2548	1
1580	2870	2870	0
1600	2809	2808	1
1620	3254	3251	3
1640	3340	3338	2
1660	3406	3404	2
1680	3535	3532	3
1700	3525	3522	3
1720	3625	3620	5
1740	3652	3647	5
1760	3709	3678	31
1780	3736	3674	62
1800	3746	3624	122
1820	3725	3600	125
1840	3662	3529	133
1860	3816	3680	136
1880	3921	3777	144
1900	3782	3633	149
1920	3803	3674	129
1940	3848	3713	135
1960	3653	3506	147
1980	3697	3552	144
2000	3785	3617	168

Special Notes:

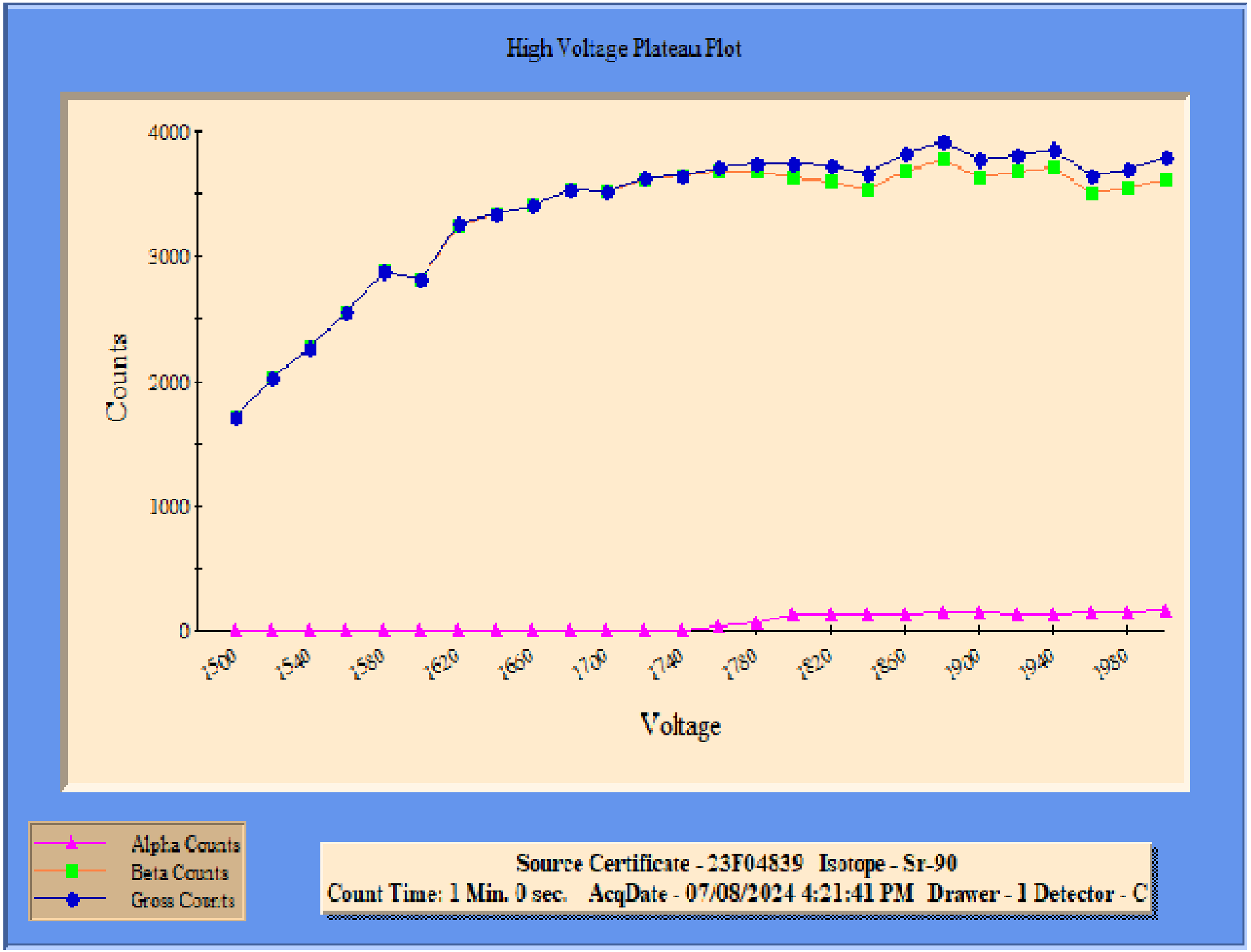
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 4:21:41 PM Drawer - 1 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 16:59
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 1 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1860	1860	0
1520	2095	2094	1
1540	2468	2468	0
1560	2644	2644	0
1580	2968	2968	0
1600	3123	3121	2
1620	3186	3185	1
1640	3448	3448	0
1660	3501	3501	0
1680	3578	3577	1
1700	3638	3636	2
1720	3666	3664	2
1740	3672	3670	2
1760	3835	3827	8
1780	3793	3771	22
1800	3898	3858	40
1820	3756	3691	65
1840	3759	3696	63
1860	3899	3827	72
1880	3800	3729	71
1900	3877	3811	66
1920	3803	3723	80
1940	3768	3714	54
1960	3699	3625	74
1980	3776	3714	62
2000	3749	3690	59

Special Notes:

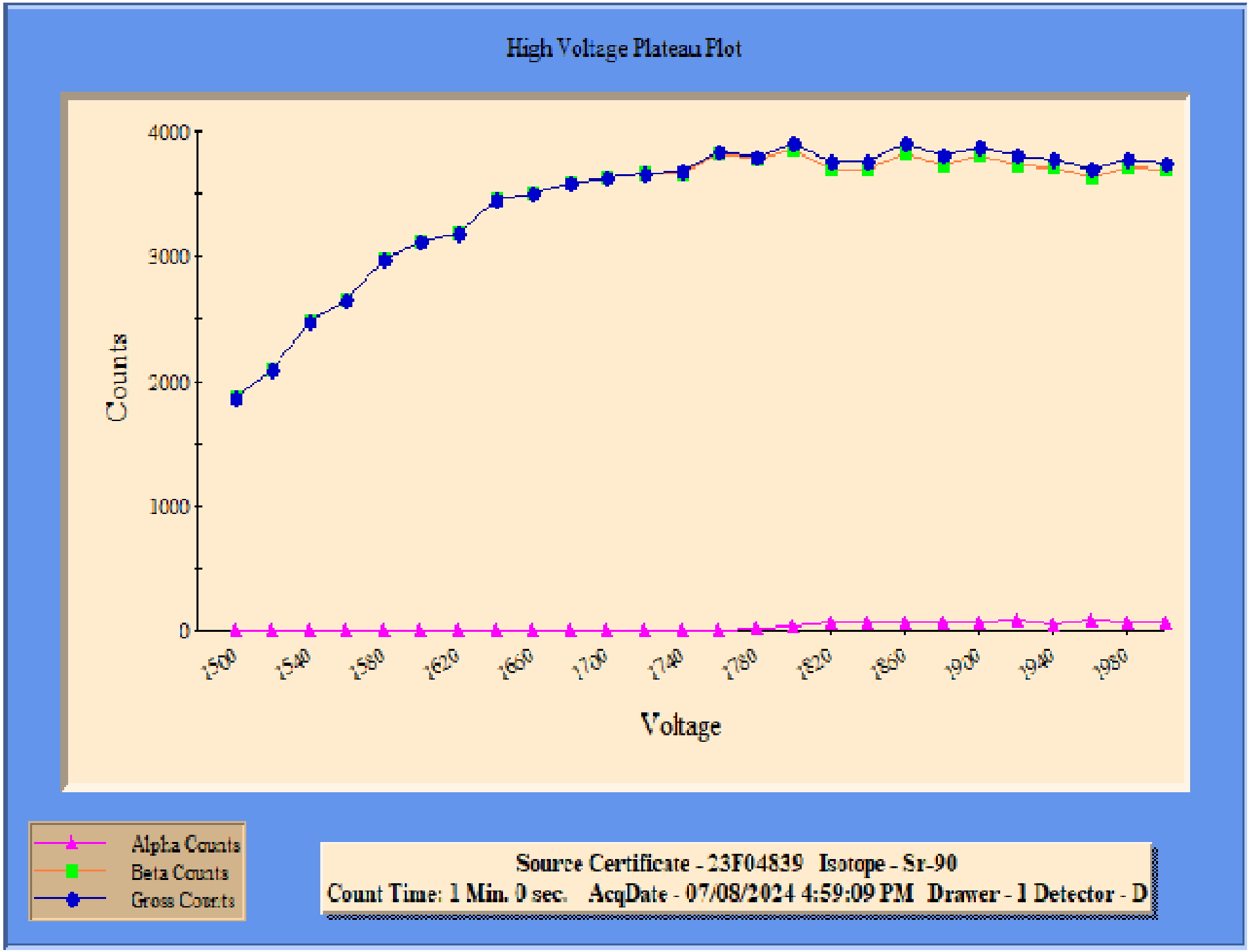
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 4:59:09 PM Drawer - 1 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 17:59
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1299	1299	0
1520	1515	1513	2
1540	1675	1673	2
1560	1965	1964	1
1580	2414	2413	1
1600	2395	2394	1
1620	2795	2795	0
1640	3041	3041	0
1660	3324	3321	3
1680	3414	3412	2
1700	3425	3423	2
1720	3565	3564	1
1740	3630	3629	1
1760	3548	3544	4
1780	3707	3696	11
1800	3658	3633	25
1820	3652	3617	35
1840	3786	3753	33
1860	3621	3588	33
1880	3606	3575	31
1900	3692	3654	38
1920	3745	3712	33
1940	3704	3670	34
1960	3802	3768	34
1980	3729	3696	33
2000	3644	3614	30

Special Notes:

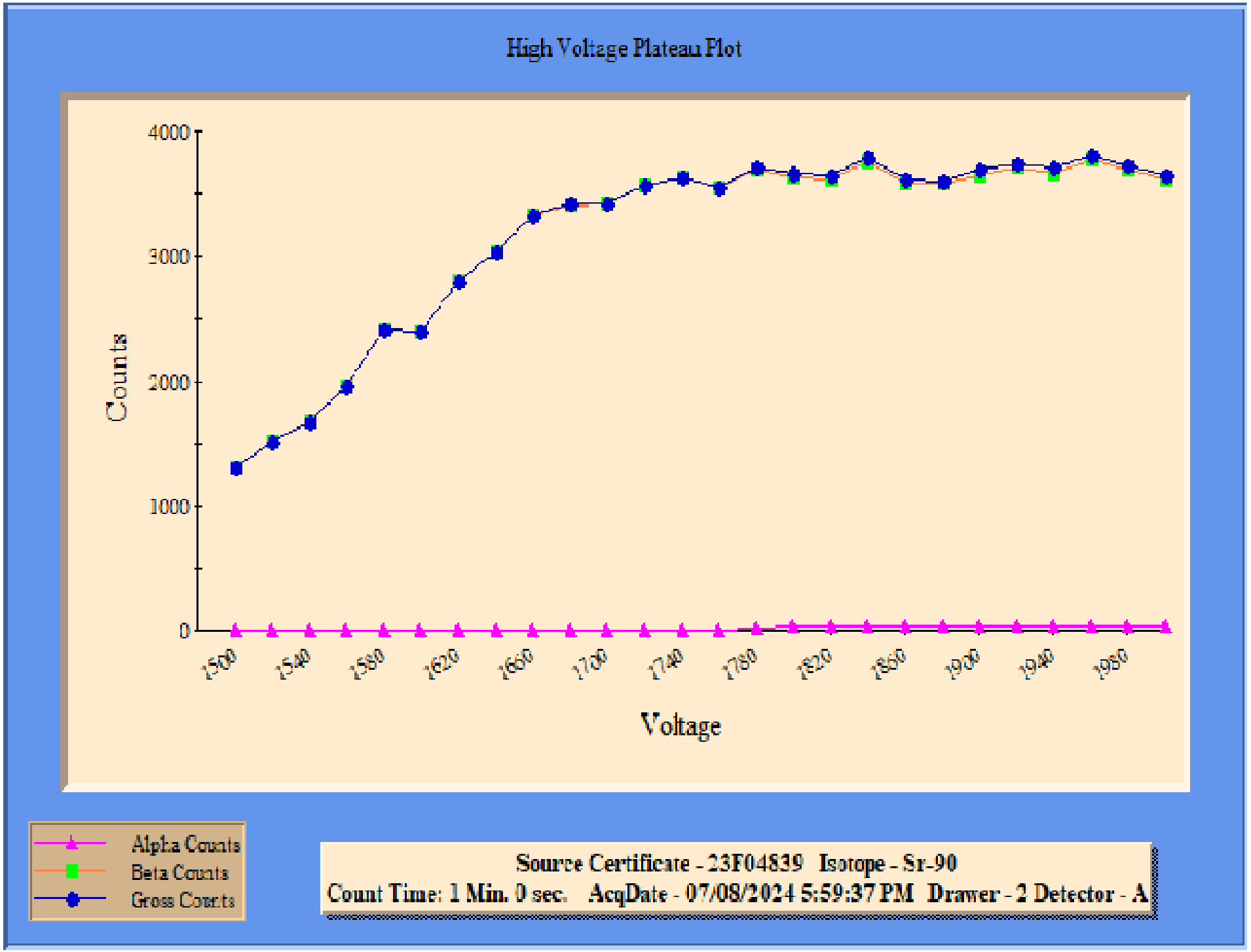
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 5:59:37 PM Drawer - 2 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 18:30
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000

Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1750	1750	0
1520	1997	1996	1
1540	2351	2351	0
1560	2654	2652	2
1580	2897	2896	1
1600	3146	3143	3
1620	3228	3226	2
1640	3449	3448	1
1660	3371	3370	1
1680	3636	3635	1
1700	3602	3599	3
1720	3702	3701	1
1740	3639	3636	3
1760	3679	3675	4
1780	3753	3740	13
1800	3815	3778	37
1820	3802	3766	36
1840	3842	3798	44
1860	3774	3736	38
1880	3851	3806	45
1900	3862	3810	52
1920	3769	3735	34
1940	3822	3777	45
1960	3744	3696	48
1980	3968	3925	43
2000	3765	3724	41

Special Notes:

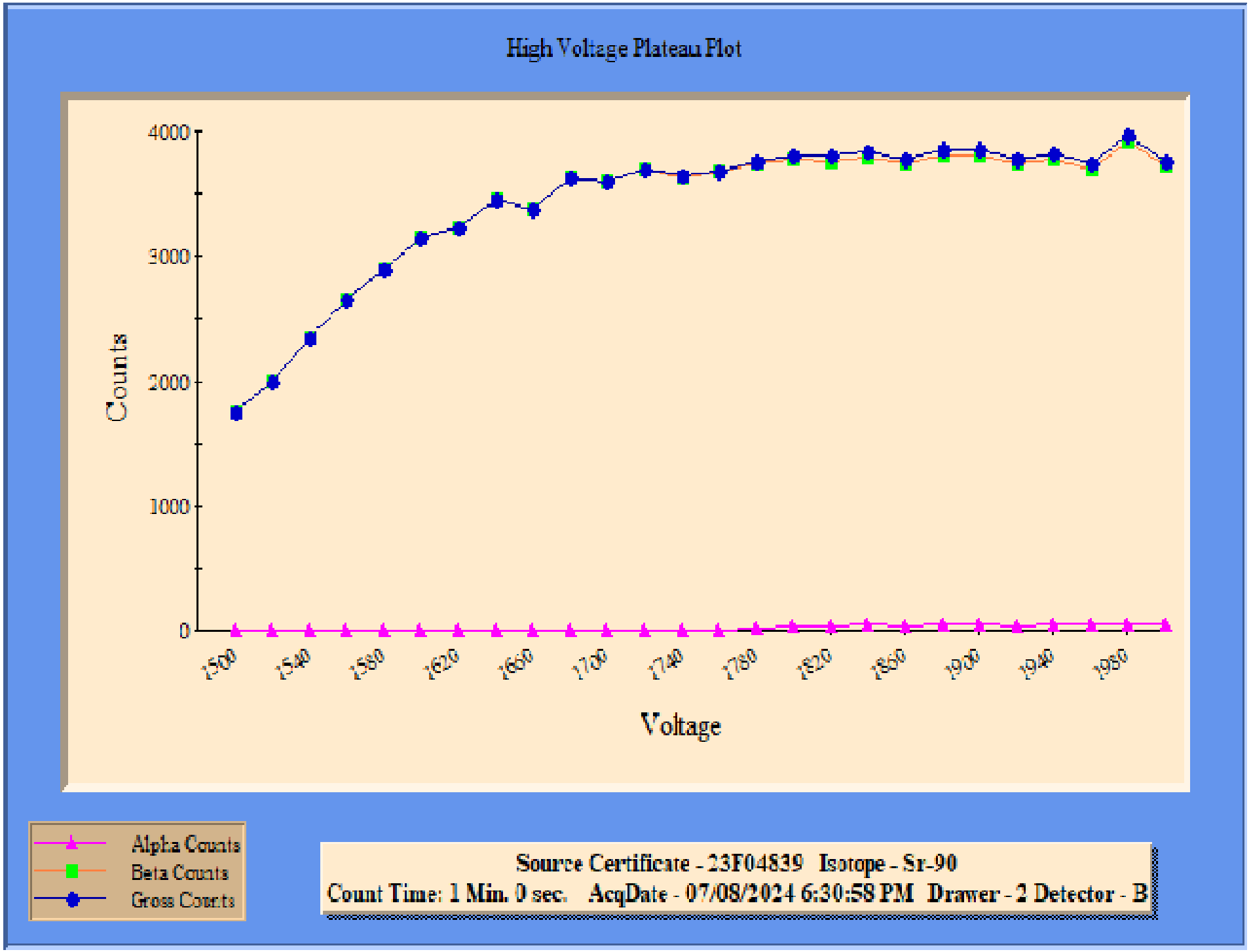
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 6:30:58 PM Drawer - 2 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 18:58
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2332	2331	1
1520	2596	2594	2
1540	2973	2971	2
1560	3164	3164	0
1580	3349	3348	1
1600	3462	3460	2
1620	3508	3506	2
1640	3512	3510	2
1660	3679	3676	3
1680	3705	3705	0
1700	3658	3652	6
1720	3793	3790	3
1740	3761	3742	19
1760	3860	3791	69
1780	3873	3768	105
1800	3819	3651	168
1820	3869	3654	215
1840	3828	3605	223
1860	3884	3687	197
1880	3898	3670	228
1900	3895	3726	169
1920	3793	3626	167
1940	3961	3756	205
1960	3814	3628	185
1980	3845	3638	207
2000	3847	3669	178

Special Notes:

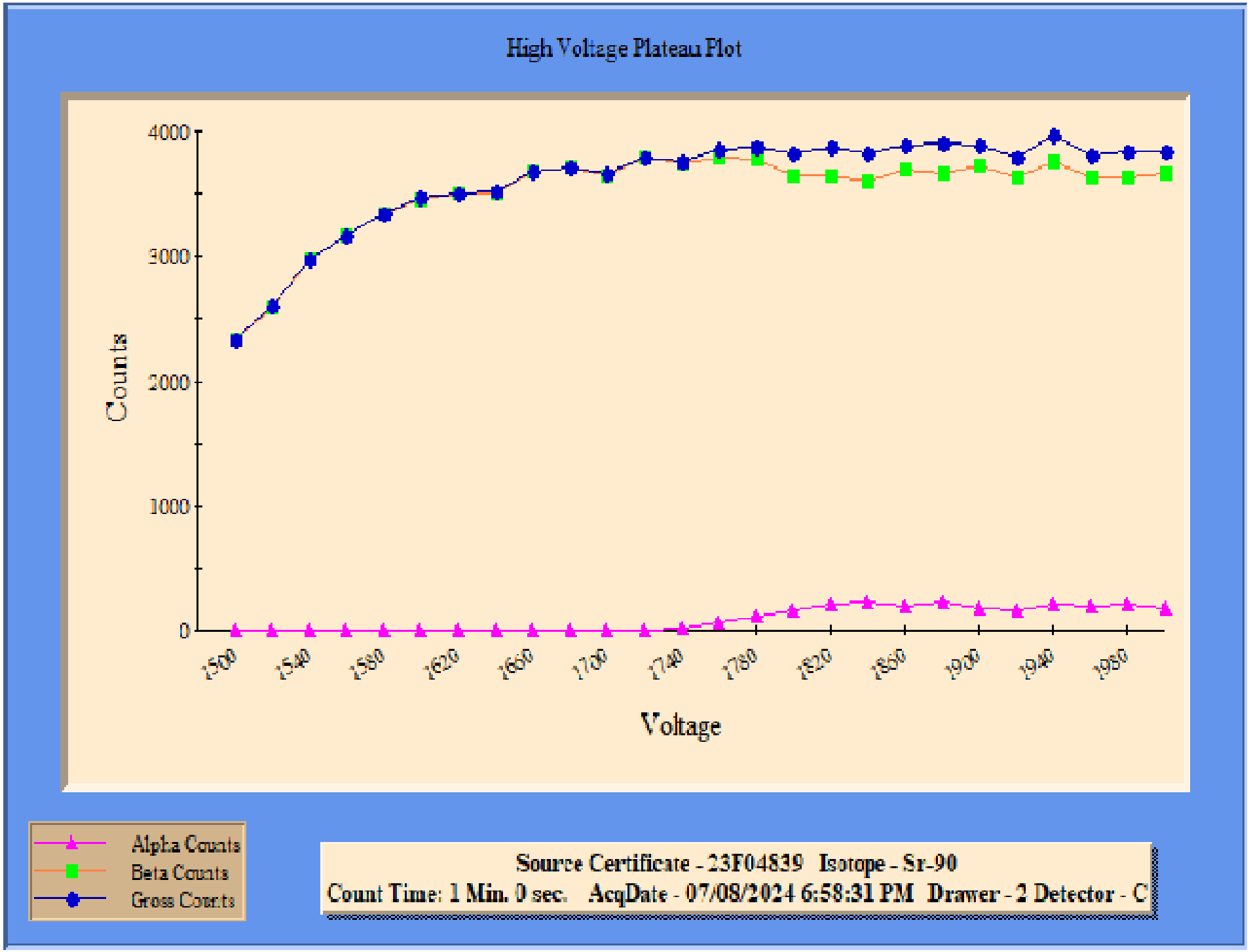
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 6:58:31 PM Drawer - 2 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 19:29
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 2 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1889	1889	0
1520	2196	2196	0
1540	2391	2390	1
1560	2690	2689	1
1580	2790	2789	1
1600	2991	2991	0
1620	3117	3114	3
1640	3140	3139	1
1660	3223	3221	2
1680	3376	3374	2
1700	3257	3255	2
1720	3346	3335	11
1740	3428	3410	18
1760	3405	3366	39
1780	3394	3301	93
1800	3539	3385	153
1820	3475	3296	179
1840	3395	3234	161
1860	3312	3133	178
1880	3457	3275	181
1900	3401	3236	165
1920	3484	3305	179
1940	3396	3202	193
1960	3585	3387	198
1980	3491	3319	172
2000	3391	3216	175

Special Notes:

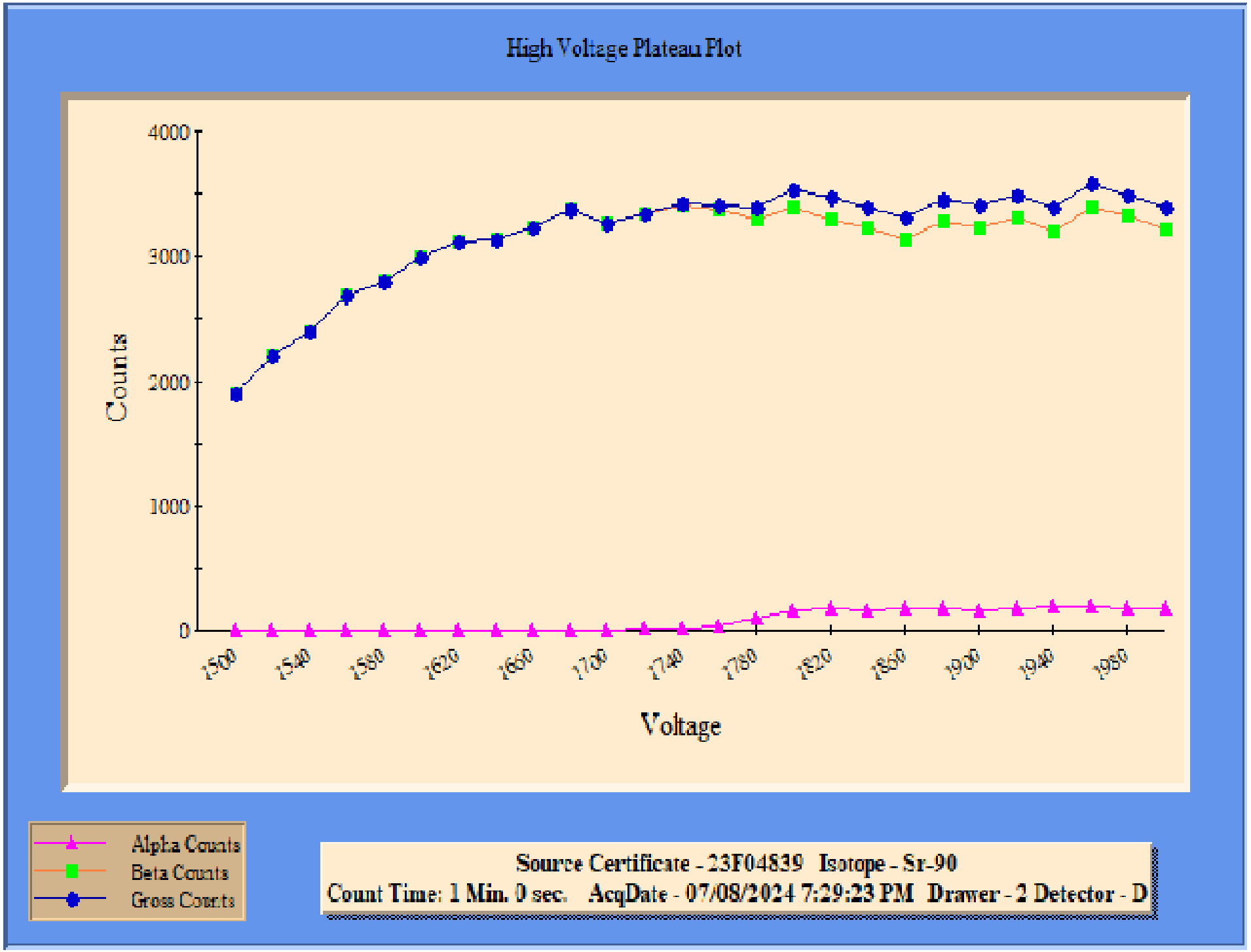
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 7:29:23 PM Drawer - 2 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 20:25
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** A
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	754	754	0
1520	952	952	0
1540	1206	1206	0
1560	1415	1414	1
1580	1643	1643	0
1600	1835	1835	0
1620	2197	2193	4
1640	2385	2385	0
1660	2566	2566	0
1680	2789	2787	2
1700	2837	2835	2
1720	2882	2881	1
1740	3144	3142	2
1760	3290	3286	4
1780	3183	3181	2
1800	3151	3146	5
1820	3295	3288	7
1840	3358	3344	14
1860	3185	3170	15
1880	3225	3214	11
1900	3241	3228	13
1920	3277	3266	11
1940	3384	3374	10
1960	3428	3419	9
1980	3319	3310	9
2000	3284	3276	8

Special Notes:

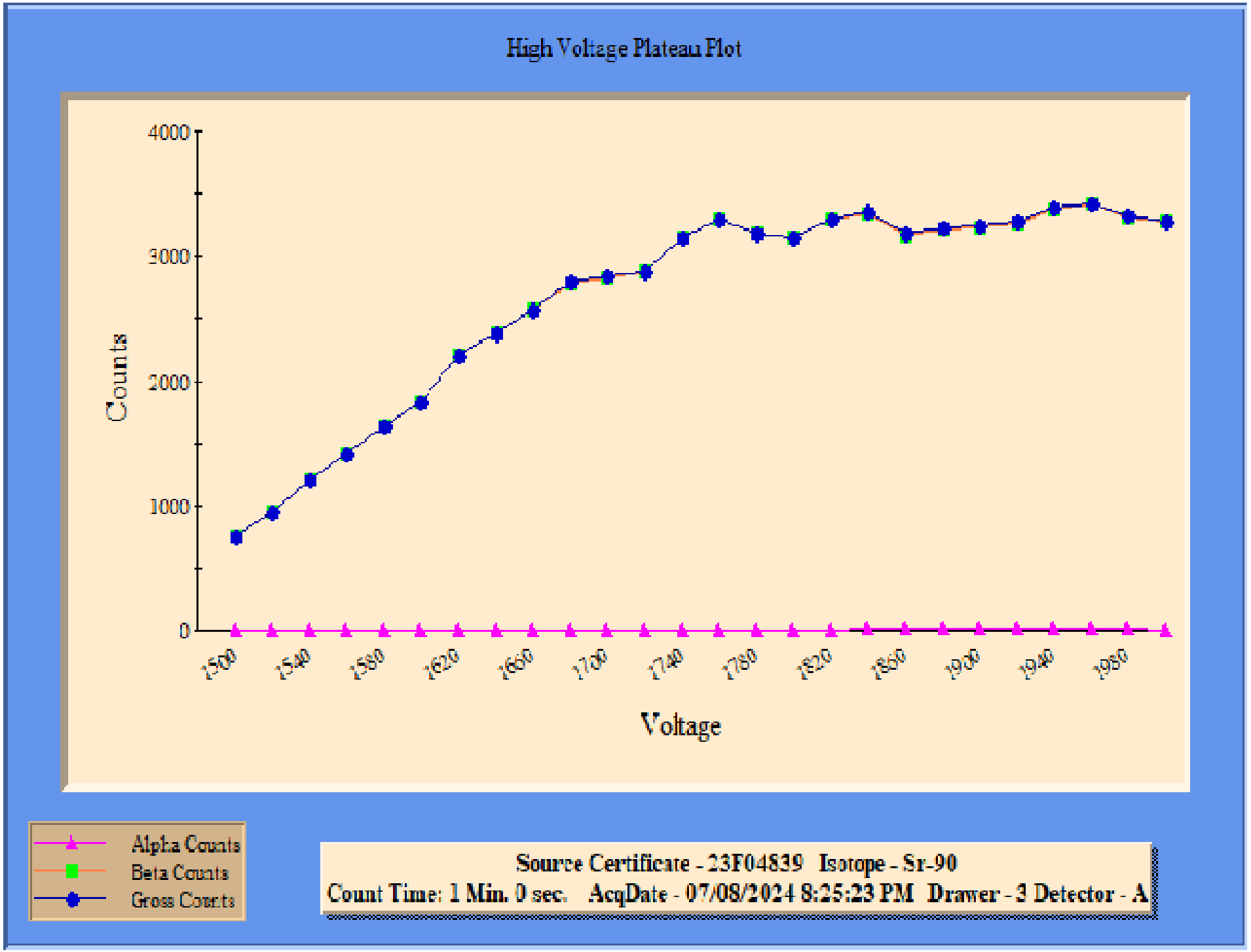
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 8:25:23 PM Drawer - 3 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 20:58
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1273	1273	0
1520	1519	1519	0
1540	1856	1856	0
1560	2167	2166	1
1580	2332	2330	2
1600	2527	2527	0
1620	2853	2852	1
1640	2981	2980	1
1660	3165	3162	3
1680	3302	3300	2
1700	3413	3411	2
1720	3431	3428	3
1740	3578	3573	5
1760	3579	3571	8
1780	3608	3579	29
1800	3679	3613	66
1820	3634	3563	71
1840	3677	3597	80
1860	3655	3581	74
1880	3551	3478	73
1900	3807	3728	79
1920	3630	3565	65
1940	3606	3549	57
1960	3631	3554	77
1980	3728	3664	64
2000	3811	3744	67

Special Notes:

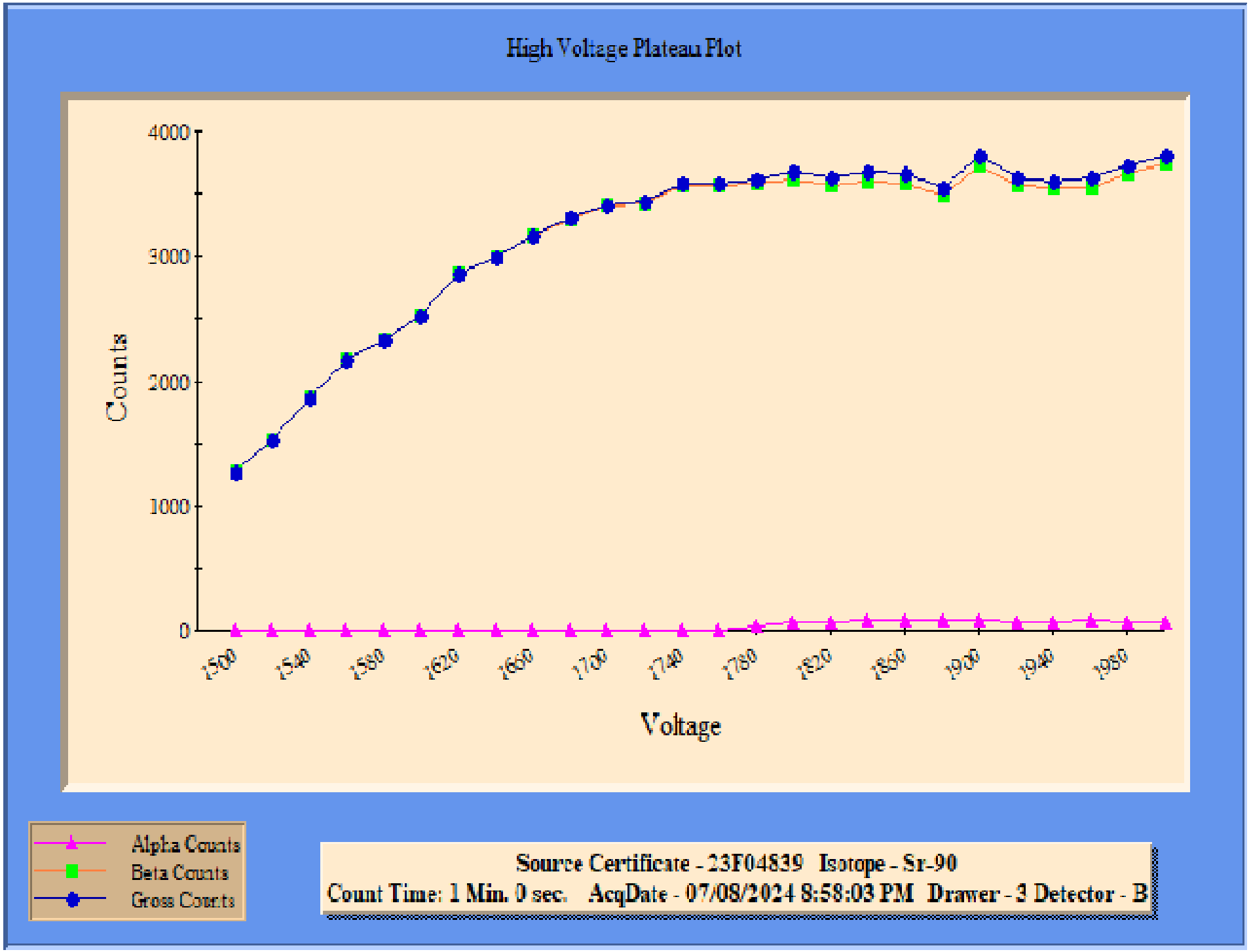
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 8:58:03 PM Drawer - 3 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 21:25
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** C
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1365	1363	2
1520	1608	1606	2
1540	1897	1896	1
1560	2182	2182	0
1580	2496	2495	1
1600	2604	2603	1
1620	2792	2789	3
1640	3135	3135	0
1660	3276	3274	2
1680	3434	3429	5
1700	3562	3559	3
1720	3460	3456	4
1740	3628	3620	8
1760	3625	3610	15
1780	3662	3635	27
1800	3680	3622	58
1820	3653	3563	90
1840	3607	3528	79
1860	3705	3611	94
1880	3646	3563	83
1900	3697	3626	71
1920	3713	3638	75
1940	3709	3620	89
1960	3681	3618	63
1980	3648	3569	79
2000	3649	3582	67

Special Notes:

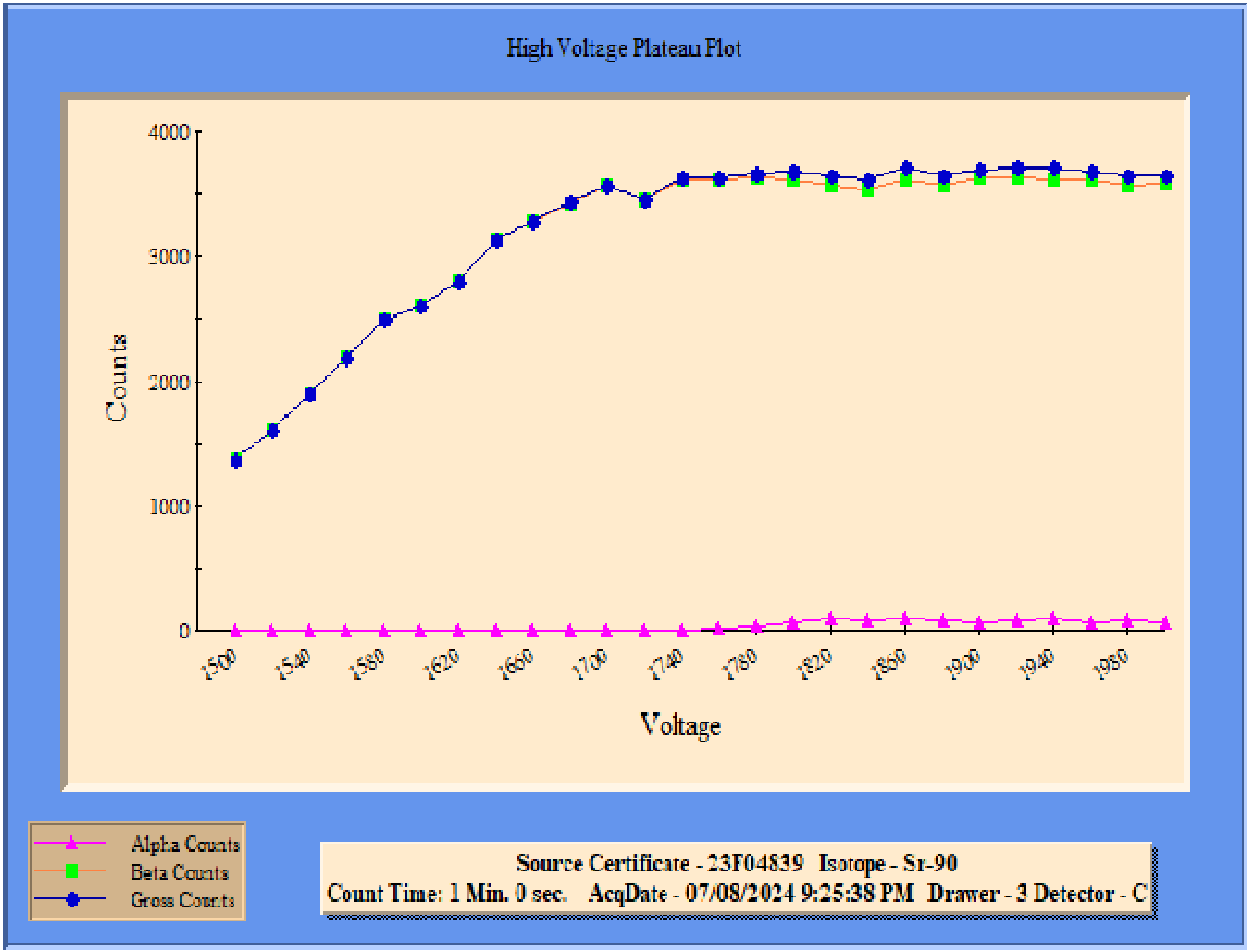
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 9:25:38 PM Drawer - 3 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 22:01
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 3 **Detector:** D
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1435	1435	0
1520	1685	1682	3
1540	1870	1870	0
1560	2204	2204	0
1580	2516	2515	1
1600	2767	2766	1
1620	2954	2953	1
1640	3097	3096	1
1660	3337	3334	3
1680	3411	3405	6
1700	3485	3483	2
1720	3548	3545	3
1740	3629	3625	4
1760	3562	3553	9
1780	3650	3607	43
1800	3660	3581	79
1820	3654	3541	113
1840	3673	3566	107
1860	3614	3507	107
1880	3810	3705	105
1900	3558	3473	85
1920	3709	3604	105
1940	3688	3584	104
1960	3693	3596	97
1980	3518	3425	93
2000	3671	3555	116

Special Notes:

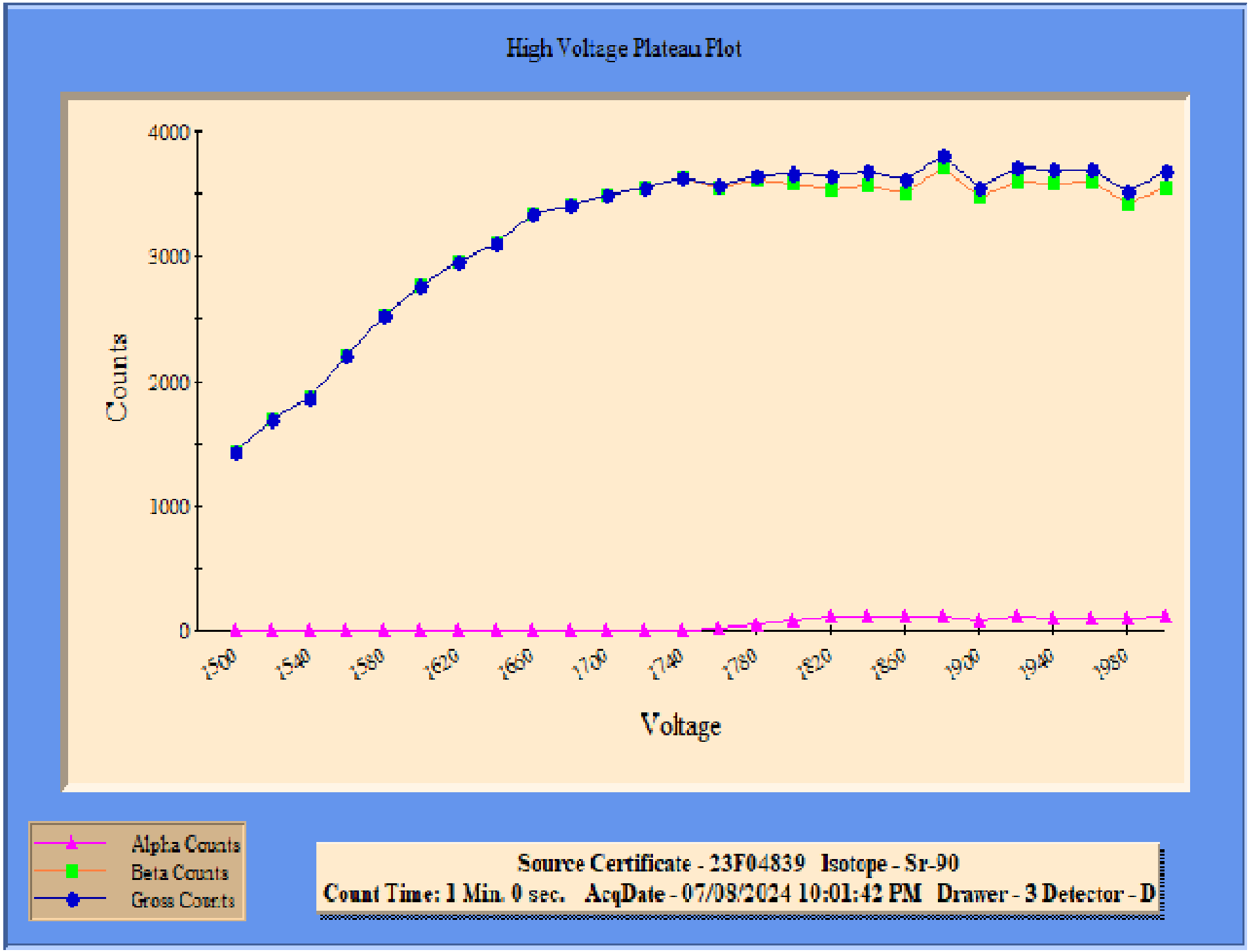
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

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High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 10:01:42 PM Drawer - 3 Detector - D

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 22:31
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** A **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1897	1896	1
1520	2136	2136	0
1540	2462	2460	2
1560	2698	2698	0
1580	2958	2958	0
1600	3107	3106	1
1620	3250	3247	3
1640	3353	3349	4
1660	3472	3471	1
1680	3517	3514	3
1700	3561	3559	2
1720	3496	3493	3
1740	3642	3629	13
1760	3789	3764	25
1780	3656	3578	78
1800	3735	3608	127
1820	3689	3529	160
1840	3656	3493	163
1860	3797	3623	174
1880	3792	3611	181
1900	3877	3715	162
1920	3765	3612	153
1940	3729	3556	173
1960	3800	3617	183
1980	3664	3489	175
2000	3808	3634	174

Special Notes:

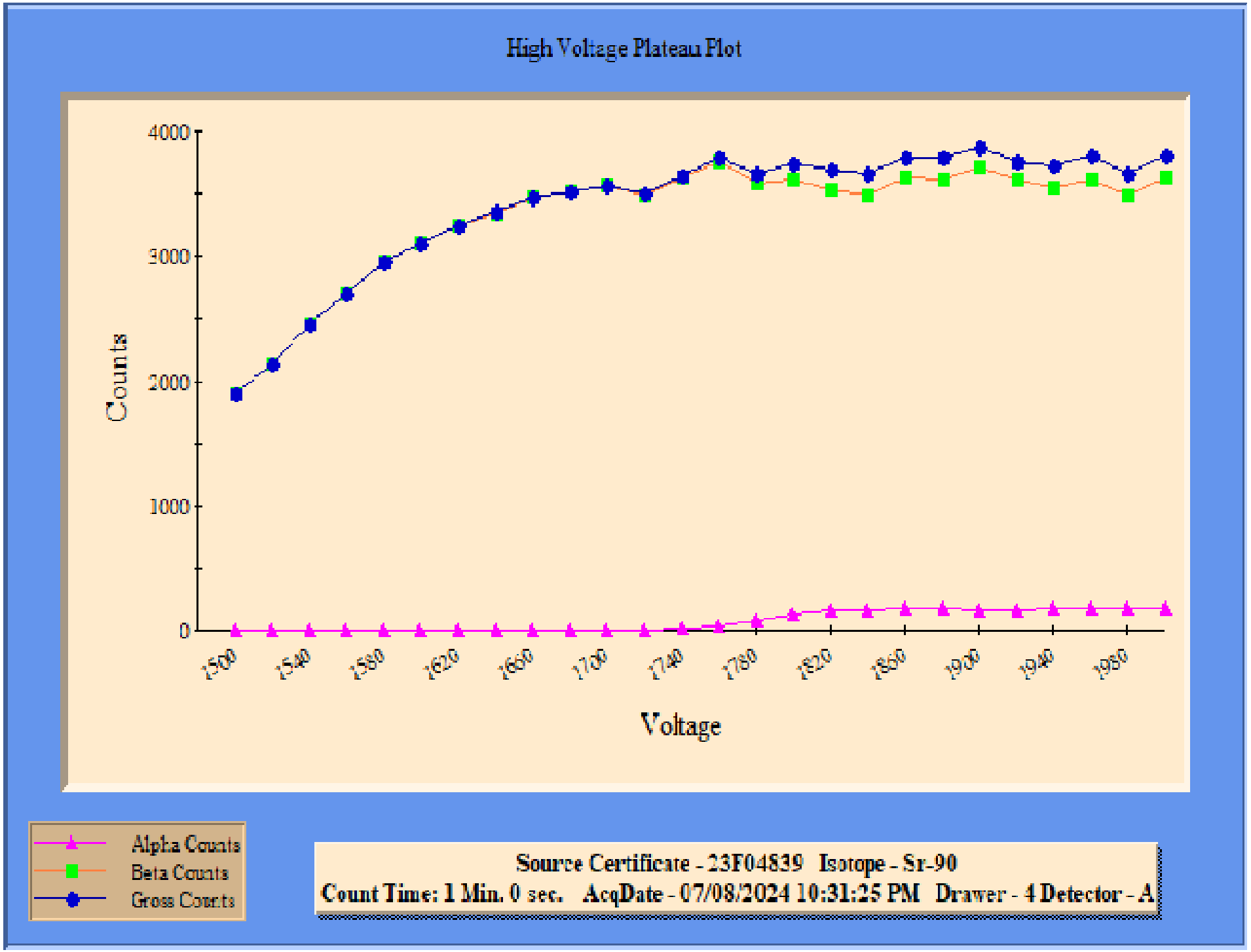
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 10:31:25 PM Drawer - 4 Detector - A

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2
User ID: Meier
Run Date: 07/08/2024 23:05
System Serial #: 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** B
Starting Voltage: 1500
Voltage Step: 20
Ending Voltage: 2000
Plot Mode: Gross/Alpha/Beta
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	2096	2095	1
1520	2391	2390	1
1540	2719	2717	2
1560	2989	2987	2
1580	3092	3090	2
1600	3234	3233	1
1620	3313	3312	1
1640	3557	3555	2
1660	3596	3595	1
1680	3634	3631	3
1700	3809	3806	3
1720	3630	3630	0
1740	3778	3772	6
1760	3724	3707	17
1780	3803	3770	33
1800	3818	3735	83
1820	3819	3733	86
1840	3696	3598	98
1860	3848	3776	72
1880	3788	3683	105
1900	3860	3780	80
1920	3799	3712	87
1940	3845	3770	75
1960	3773	3683	90
1980	3901	3812	89
2000	3842	3749	93

Special Notes:

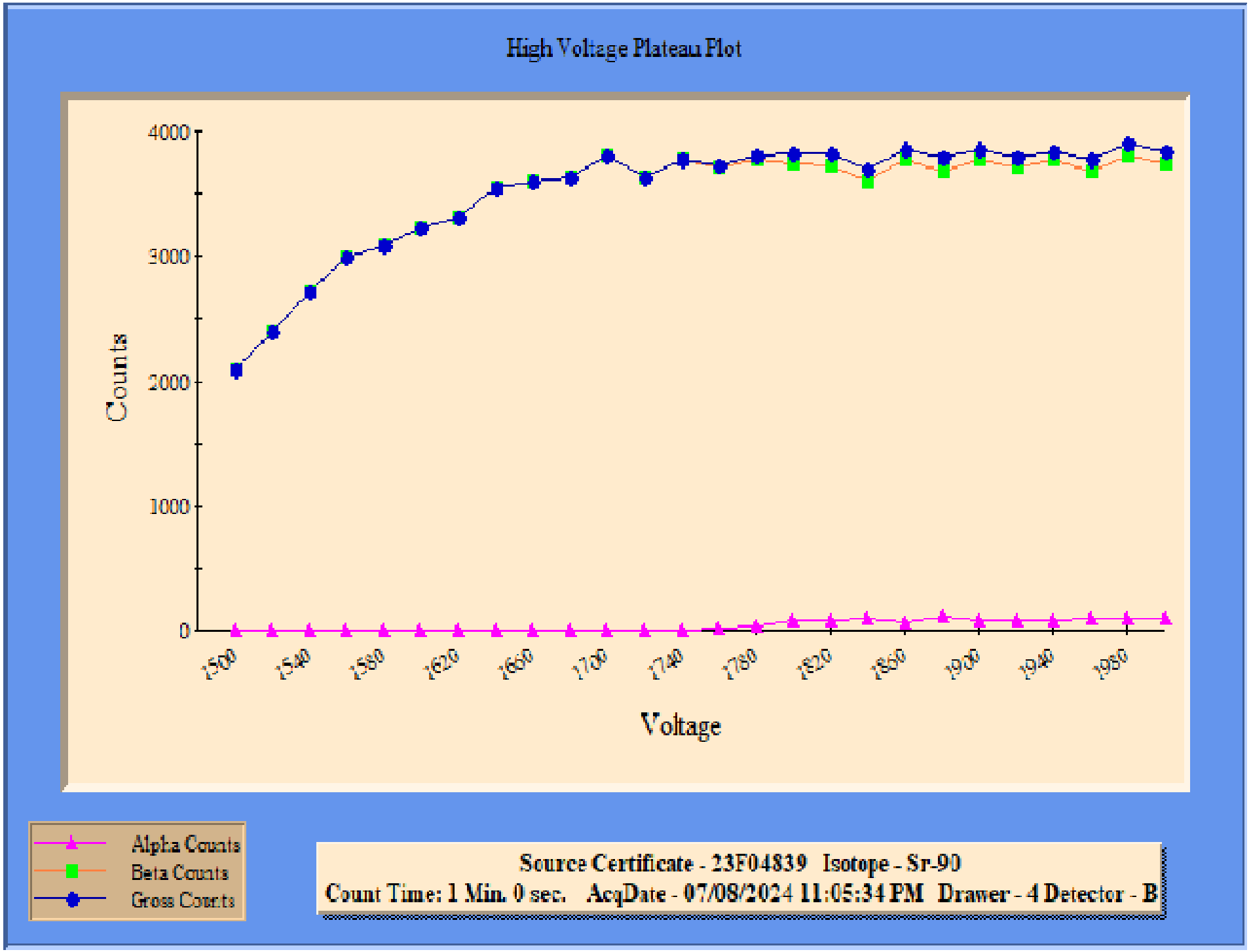
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 11:05:34 PM Drawer - 4 Detector - B

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/08/2024 23:40
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** C **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	1493	1492	1
1520	1702	1700	2
1540	1975	1975	0
1560	2257	2253	4
1580	2523	2523	0
1600	2755	2754	1
1620	3046	3044	2
1640	3158	3158	0
1660	3442	3441	1
1680	3476	3474	2
1700	3402	3401	1
1720	3574	3573	1
1740	3664	3663	1
1760	3563	3558	5
1780	3708	3706	2
1800	3735	3709	26
1820	3768	3726	42
1840	3818	3789	29
1860	3777	3746	31
1880	3822	3788	34
1900	3773	3749	24
1920	3713	3678	35
1940	3703	3672	31
1960	3722	3708	14
1980	3695	3664	31
2000	3706	3681	25

Special Notes:

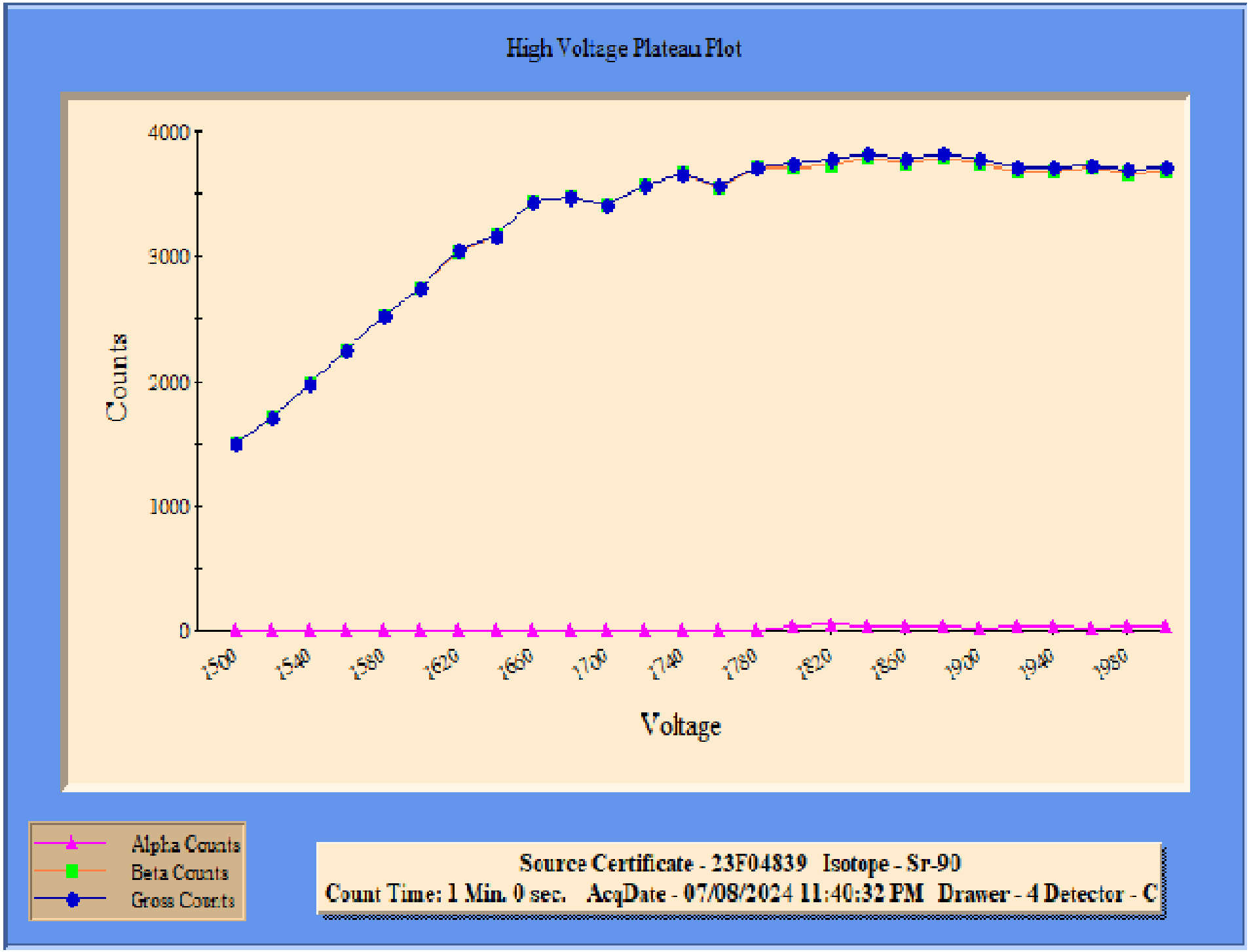
Report Generated: 07/08/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One) **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/08/2024 11:40:32 PM Drawer - 4 Detector - C

Pace Analytical
G-542W High Voltage Plateau

Machine Name: PEPPER MILL 2 **Run Date:** 07/09/2024 00:10
User ID: Meier **System Serial #:** 062201

Counting Time: 1 min 0 sec
Drawer Number: 4 **Detector:** D **Plot Mode:** Gross/Alpha/Beta
Starting Voltage: 1500 **Source Certificate:** 23F04839
Voltage Step: 20 **Isotope:** Sr-90
Ending Voltage: 2000 **Emission Type:** Beta

Voltage	Gross ROI Counts Chn 1 - 1024	Beta ROI Counts Chn 1 - 899	Alpha ROI Counts Chn 900 - 1023
1500	582	582	0
1520	770	769	1
1540	936	935	1
1560	1205	1205	0
1580	1398	1396	2
1600	1576	1576	0
1620	1732	1732	0
1640	2073	2071	2
1660	2339	2338	1
1680	2576	2575	1
1700	2719	2718	1
1720	2868	2867	1
1740	3051	3048	3
1760	3223	3220	3
1780	3258	3253	5
1800	3307	3303	4
1820	3243	3240	3
1840	3348	3345	3
1860	3358	3355	3
1880	3310	3307	3
1900	3351	3346	5
1920	3311	3305	6
1940	3275	3268	7
1960	3268	3265	3
1980	3271	3269	2
2000	3396	3393	3

Special Notes:

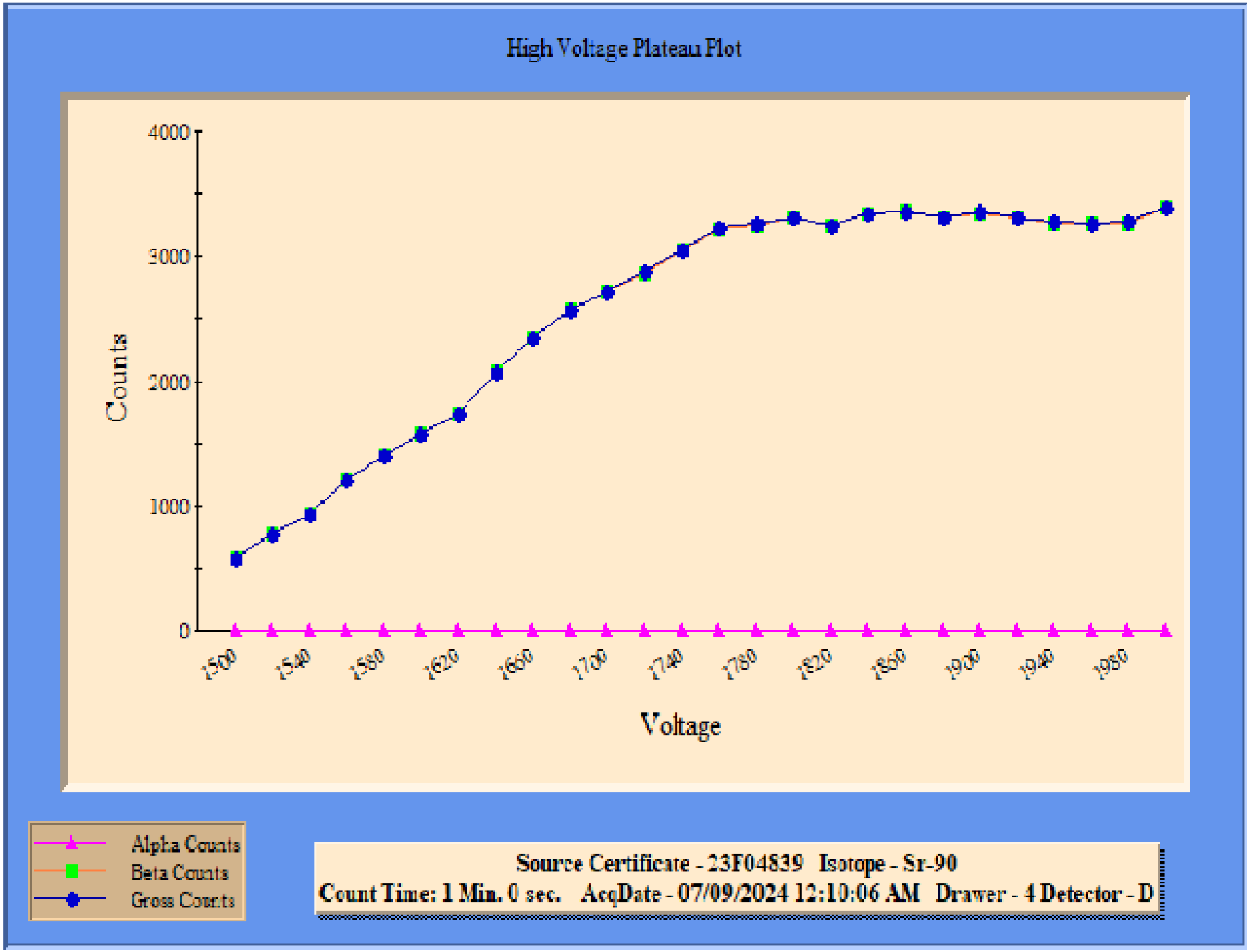
Report Generated: 07/09/2024 **G542HV.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: **Yes** **No** **(CIrcle One)** **New Voltage:** _____

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com


High Voltage Plateau Plot
Counts
4000
3000
2000
1000
0
1500
1540
1580
1620
1660
1700
1740
1780
1820
1860
1900
1940
1980
Voltage
Alpha Counts
Beta Counts
Gross Counts
Source Certificate - 23F04839 Isotope - Sr-90
Count Time: 1 Min. 0 sec. AcqDate - 07/09/2024 12:10:06 AM Drawer - 4 Detector - D

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: A
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3671	10
2	3702	14
3	3738	20
4	3692	15
5	3776	19
6	3652	17
7	3653	12
8	3592	13
9	3685	19
10	3602	17
11	3750	17
12	3719	31
13	3680	23
14	3800	24
15	3683	20
16	3641	23
17	3757	21
18	3645	33
19	3611	25
20	3694	19

(Xbar) Mean:	3687.15	19.60
Calculated Chi-Sqr Value:	16.84	33.20

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: B
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3199	7
2	3296	10
3	3343	15
4	3428	15
5	3294	13
6	3306	12
7	3147	8
8	3260	17
9	3228	15
10	3348	22
11	3295	18
12	3337	21
13	3320	18
14	3269	15
15	3200	26
16	3195	10
17	3287	9
18	3232	11
19	3315	15
20	3190	15

(Xbar) Mean:	3274.45	14.60
Calculated Chi-Sqr Value:	27.14	31.01

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: C
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3462	1
2	3669	10
3	3607	18
4	3585	19
5	3647	22
6	3625	32
7	3623	25
8	3546	22
9	3528	22
10	3629	22
11	3499	17
12	3661	38
13	3652	21
14	3610	26
15	3616	34
16	3695	20
17	3730	26
18	3562	35
19	3540	34
20	3558	34

(Xbar) Mean:	3602.20	23.90
Calculated Chi-Sqr Value:	23.87	65.51

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 1
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:14
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3820	4
2	3737	7
3	3803	4
4	3756	5
5	3803	5
6	3812	5
7	3728	5
8	3730	4
9	3745	6
10	3692	6
11	3694	6
12	3787	4
13	3655	9
14	3764	4
15	3767	5
16	3644	6
17	3781	10
18	3700	8
19	3722	6
20	3668	5

(Xbar) Mean:	3740.40	5.70
Calculated Chi-Sqr Value:	14.23	9.51

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

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Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: A
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:53
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3537	1
2	3556	3
3	3589	6
4	3635	3
5	3698	1
6	3620	2
7	3628	5
8	3645	2
9	3581	0
10	3583	4
11	3588	2
12	3573	6
13	3693	1
14	3555	1
15	3626	4
16	3626	3
17	3600	4
18	3710	4
19	3568	3
20	3654	3

(Xbar) Mean:	3613.25	2.90
Calculated Chi-Sqr Value:	12.77	18.55

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name:	PEPPER MILL 2			**Test Date:**	07/09/2024 16:53
USER ID:	Meier			**System Serial #:**	062201
Acq. Mode:	Alpha/Beta			**Number of Counts Performed:**	20
Drawer Number:	2	**Detector:**	B	**Source Certificate:**	None
Counting Time:	1 min 0 sec	**Voltage:**	1760	**Isotope:**	Sr-90
Degrees of Freedom:	N - 1	**Conf Level:**	95.0 %	**Emission Type:**	Beta

Count	**Beta ROI Counts**	**Alpha ROI Counts**
#	**Chn 1- 899**	**Chn 900 - 1023**
1	3732	3
2	3605	3
3	3689	0
4	3735	6
5	3785	3
6	3692	4
7	3812	1
8	3741	4
9	3708	4
10	3727	2
11	3740	1
12	3653	8
13	3637	3
14	3664	2
15	3773	3
16	3656	2
17	3726	1
18	3653	5
19	3760	7
20	3573	4

(Xbar) Mean:	3703.05	3.30
Calculated Chi-Sqr Value:	19.57	24.30

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____

Changes Needed: Yes No (CIrcle One)

Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: C
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:53
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3424	23
2	3463	50
3	3323	35
4	3400	36
5	3390	31
6	3385	26
7	3341	34
8	3403	44
9	3472	38
10	3487	27
11	3399	38
12	3343	38
13	3463	29
14	3404	29
15	3383	36
16	3423	31
17	3432	38
18	3338	34
19	3382	22
20	3373	32

(Xbar) Mean:	3401.40	33.55
Calculated Chi-Sqr Value:	12.05	26.08

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 2
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 16:53
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3780	24
2	3739	34
3	3646	31
4	3742	37
5	3598	32
6	3715	41
7	3594	43
8	3742	31
9	3759	34
10	3658	31
11	3767	40
12	3672	37
13	3662	29
14	3680	35
15	3782	27
16	3665	27
17	3616	39
18	3697	44
19	3693	30
20	3848	25

(Xbar) Mean:	3702.75	33.55
Calculated Chi-Sqr Value:	23.07	19.58

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1780
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Gamma

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3451	2
2	3421	3
3	3457	1
4	3528	1
5	3477	3
6	3495	3
7	3505	6
8	3453	3
9	3482	4
10	3511	6
11	3487	4
12	3462	2
13	3413	5
14	3458	5
15	3463	2
16	3501	3
17	3349	2
18	3423	5
19	3498	3
20	3464	3

(Xbar) Mean:	3464.90	3.30
Calculated Chi-Sqr Value:	9.30	12.79

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: B
Voltage: 1780
Conf Level: 95.0 %

Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3259	5
2	3286	7
3	3232	13
4	3270	12
5	3271	19
6	3277	22
7	3306	22
8	3287	12
9	3328	21
10	3313	13
11	3297	18
12	3263	14
13	3304	22
14	3279	16
15	3198	20
16	3273	28
17	3242	12
18	3219	28
19	3312	15
20	3245	24

(Xbar) Mean:	3273.05	17.15
Calculated Chi-Sqr Value:	6.56	44.35

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: C
Voltage: 1780
Conf Level: 95.0 %

Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3620	28
2	3580	22
3	3586	23
4	3676	31
5	3706	30
6	3670	34
7	3612	27
8	3563	13
9	3676	19
10	3619	21
11	3556	24
12	3581	23
13	3650	29
14	3788	25
15	3555	28
16	3598	36
17	3593	29
18	3539	24
19	3540	28
20	3563	21

(Xbar) Mean:	3613.55	25.75
Calculated Chi-Sqr Value:	21.53	21.19

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 3
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1

Detector: D
Voltage: 1780
Conf Level: 95.0 %

Test Date: 07/09/2024 17:20
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 899	Alpha ROI Counts Chn 900 - 1023
1	3698	24
2	3648	19
3	3639	31
4	3719	19
5	3587	25
6	3612	33
7	3667	44
8	3667	26
9	3663	32
10	3550	36
11	3594	27
12	3661	35
13	3655	35
14	3713	29
15	3595	24
16	3623	37
17	3559	32
18	3624	30
19	3588	32
20	3547	37

(Xbar) Mean:	3630.45	30.35
Calculated Chi-Sqr Value:	13.81	25.19

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** A
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 17:46
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: 23F04839
Isotope: Sr-90
Emission Type: Gamma

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 1- 900	Chn 900 - 1023
1	3337	21
2	3333	29
3	3373	21
4	3377	25
5	3381	27
6	3353	29
7	3376	22
8	3284	27
9	3382	33
10	3263	29
11	3280	23
12	3273	25
13	3381	21
14	3309	34
15	3360	24
16	3342	25
17	3415	28
18	3338	29
19	3303	26
20	3255	32

(Xbar) Mean:	3335.75	26.50
Calculated Chi-Sqr Value:	12.44	11.06

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** B
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 17:46
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 1- 900	Chn 900 - 1023
1	3708	8
2	3751	7
3	3731	15
4	3620	8
5	3681	6
6	3781	6
7	3685	5
8	3638	4
9	3648	7
10	3604	14
11	3650	8
12	3691	8
13	3609	11
14	3796	5
15	3767	6
16	3623	7
17	3702	7
18	3564	8
19	3716	9
20	3524	11

(Xbar) Mean:	3674.45	8.00
Calculated Chi-Sqr Value:	27.24	19.25

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

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Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

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Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4 **Detector:** C
Counting Time: 1 min 0 sec **Voltage:** 1760
Degrees of Freedom: N - 1 **Conf Level:** 95.0 %

Test Date: 07/09/2024 17:46
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count	Beta ROI Counts	Alpha ROI Counts
#	Chn 1- 900	Chn 900 - 1023
1	3637	2
2	3637	1
3	3609	2
4	3697	1
5	3731	2
6	3687	5
7	3626	7
8	3659	2
9	3693	3
10	3610	3
11	3716	2
12	3691	2
13	3720	3
14	3647	3
15	3665	7
16	3677	1
17	3726	5
18	3844	3
19	3679	3
20	3678	9

(Xbar) Mean:	3681.45	3.30
Calculated Chi-Sqr Value:	14.51	27.94

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: Yes No (CIrcle One)
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

Pace Analytical
G-542W Chi-Square Calculation Report

Machine Name: PEPPER MILL 2
USER ID: Meier
Acq. Mode: Alpha/Beta
Drawer Number: 4
Counting Time: 1 min 0 sec
Degrees of Freedom: N - 1
Detector: D
Voltage: 1760
Conf Level: 95.0 %
Test Date: 07/09/2024 17:46
System Serial #: 062201
Number of Counts Performed: 20
Source Certificate: None
Isotope: Sr-90
Emission Type: Beta

Count #	Beta ROI Counts Chn 1- 900	Alpha ROI Counts Chn 900 - 1023
1	3438	3
2	3330	3
3	3504	0
4	3600	1
5	3557	2
6	3494	2
7	3499	1
8	3508	1
9	3579	3
10	3596	3
11	3545	3
12	3516	3
13	3453	0
14	3456	3
15	3581	2
16	3532	0
17	3612	2
18	3556	4
19	3597	1
20	3566	1

(Xbar) Mean:	3525.95	1.90
Calculated Chi-Sqr Value:	25.97	14.63

Chi-Sqr Table Limits: **Max:** 32.90 **Min:** 8.91

Special Notes: _____

Report Generated: 07/09/2024 **G542CHISQR.RPT ver 2.0**

Collected By: _____ **Date:** _____
Changes Needed: **Yes** **No** **(CIrcle One)**
Approved By: _____ **Date:** _____

Gamma Products Inc 7730 w 114 Pl Palos Hills IL 60465 Phone 708-974-4100 Website www.gammaproducts.com

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
NI	Manual Integration Code to indicate that the peak was not integrated at all by the computer software.
LT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area less than what it should be (i.e., peak area was cut).
GT	Manual Integration Code to indicate that the peak in question was inappropriately integrated to an area greater than it should be (i.e., peak tailing).
BA	Manual Integration Code to indicate that the baseline had to be adjusted correctly by the analyst.
WP	Manual Integration Code to indicate that the wrong peak was chosen.
CO	Manual Integration Code to indicate that the analyst had to split two co-eluting peaks apart that were not (or could not be) separated by the computer system.
RT	Manual Integration Code to indicate that the retention time for the peak in question has shifted from the expected retention time.
INT	Manual Integration Code to indicate that there was electronic interference (i.e., noise).

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Haley & Aldrich - Phoenix
400 E. Van Buren St #545
Phoenix, AZ 85004

Billing Information:
Attn: Account Payable
70 Blanchard Rd Suite 204
Burlington, MA 01803

Report to: Samantha Kaney 602-760-2841
Email To: SKaney@haleyaldrich.com

Project Description: ESI - Env. Sampling
City/State Collected: Missouri
Please Circle: PT MT (CT) ET

Phone:
Client Project # 0213103-000
Lab Project #

Collected by (print): S. Kaney
Site/Facility ID #
P.O. #

Collected by (signature): SK
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day
Quote #
Date Results Needed

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Hexavalent Chrom - EPA 3500-Cr B	Hexavalent Chrom - EPA 218.6 Field Filtered	Total Mercury - EPA 245.1	Dissolved Mercury - EPA 245.1 Field Filtered	Total Metals - EPA 200.7	Dissolved Metals - EPA 200.7 Field Filtered	Total Rad 226/228 - EPA 903/904	Dissolved Rad 226/228 - EPA 903/904 Field Filtered	Sulfate Anions - EPA 300.0		Remarks	Sample # (lab only)
Montrose_Lake_I-SW	Grab	SW	-	3/11/25	1240	8	X	X	X	X	X	X	X	X	X			01
Deepwater_I-SW	Grab	SW	-	3/11/25	1545	8	X	X	X	X	X	X	X	X	X			02
Truman_I-SW	Grab	SW	-	3/11/25	1734	5	X		X		X		X		X			03

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE
12065 Lebanon Rd Mount Juliet, TN 37122
Phone: 615-758-5858 Alt: 800-767-5859

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # E132

Acctnum:
Template:
Prelogin:
PM: 618352
PB:
Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other SW Surface water

Remarks: please preserve at lab
-no rush on rad-

Samples returned via:
___ UPS X FedEx ___ Courier ___

Tracking # MM149

pH ___ Temp ___
Flow ___ Other ___

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes No HCL / MeoH TBR
SK	3/11/2025	1745	FedEx	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
			MM149	21
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
			Ei Dixon 17	3-12-25 0800

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

Multiple Parcel Form

L# L1835200

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
4359 9290 8213	~~0.5~~ CGA9	0.5	+0.4	= 0.9	Yes / No / Not Present
4359 9290 8224	CGA9	3.2	+0.4	= 3.6	Yes / No / Not Present
4359 9290 8202	CGA9	4.1	+0.4	= 4.5	Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Eli Dossett '17 / Eli Dossett
Name

3-12-25
Date